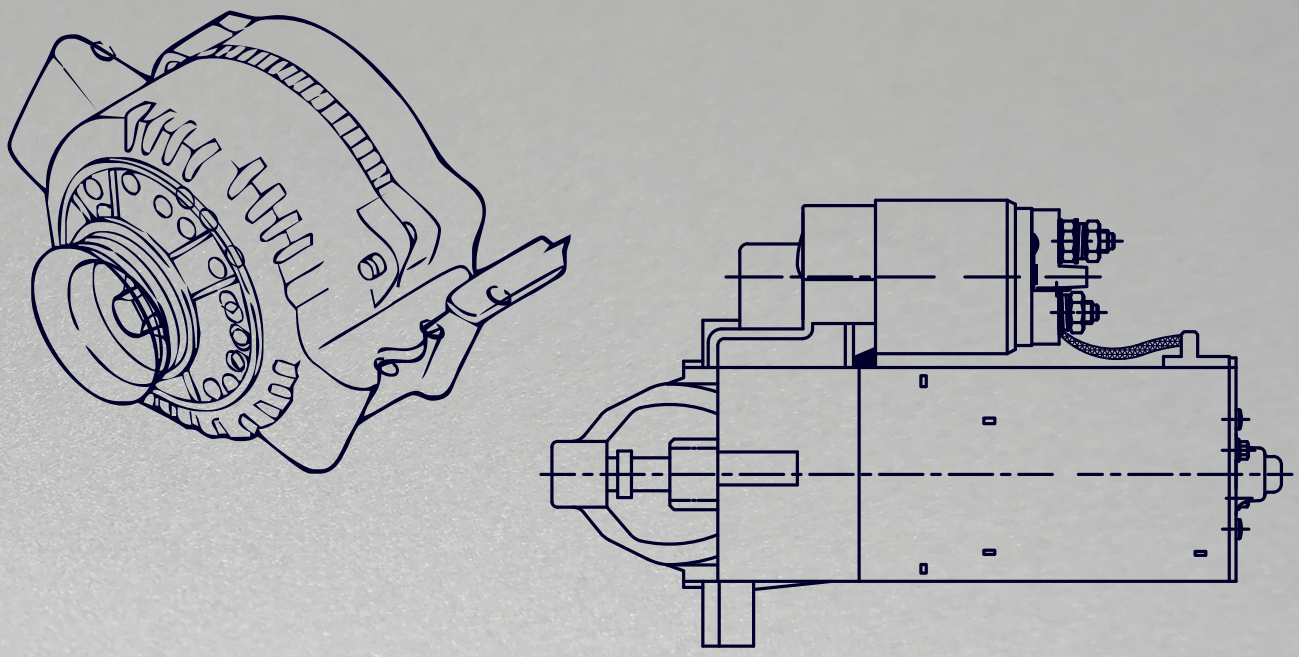
AOPEC
WORDS ON QUALITY



STARTERS ALTERNATORS & COMPONENTS

2020 EDITION

AOPEC

About Us

Aopec is your trustworthy aftermarket supplier and brand partner from China, through its extensive supply chain, complete QC processing and expertise service team!

Aopec is a premium manufacturer both in direct investment and joint ventures for Automotive Electrics in China, since the year of 2002. We are the qualified OE supplierto some car makers and several big brands. TS standardized QC control with the lean manufacturing process makes us a reliable partner with the customers on design, quality, delivery and services.

Aopec is carrying a big range of aftermarket parts, with more than 500 selected suppliers to cooperate and 30 categories, we are providing the one-stop solutions and capable to protect the customers' business properties from IP, Patent Packages, Distribution Network, etc. We are taking the active commercial insurance to cover the customers' concerns and expanding to supply more and more onsite services through the local team in the different countries.

Our SOP (Special Program Management) offers a better solution for different demands and different markets.

Aftermarket- The range includes starters, alternators, repair parts for starters & alternators and spare parts including brackets, brush holders, pulleys, rectifiers, regulators, rotors, stators, armatures, bendix drives, starter solenoids.

CERTIFICATE ◆ ZERTIFIKAT ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

BVCE Compliance Laboratory

EC Declaration of Conformity

No:BV E 09 03 271

AOPEC AUTO PARTS CO.,LTD

No.5 jinteng Rd, Wuxiang Industrial Zone
Ningbo China.

Product: Battery Sensitive Relay

Model No.: R140

Technical Data: DC 12V

The submitted products have been tested by us with the listed standards and found in compliance with the following European Directives:

The EMC directive 89/336/EEC as last amended by EEC directive 2004/108/EEC

EN 55014-1:2006 EN 55014-2:1997+A1:2001
EN 61000-3-2:2001 EN 61000-3-3:1995

The tests were performed in normal operation mode.The test results apply only to the particular sample tested and to the specific tests carried out.
This certificate applies specifically to the sample investigated in our test reference number only.
The CE markings as shown below can be affixed on the product after preparation of necessary technical documentation. Other relevant Directives have to be observed.

Apr. 3. 2009

Legoff Pieddllièvre
For Chief Executives

BVCE Compliance Laboratory Limited
401th Building Dongming Square, Lujiazui,
Pudong New Area,Shanghai City,China

BVCE COMPLIANCE LABORATORY LIMITED COMMON SEAL

TÜV SAARLAND

IATF Database No. 0239676
Certificate registration No. 71 111 N 976/1

The management system of

Suzhou Aopec Auto Parts Co., Ltd.

No.2615, Huanqing Road, Yushan Town,
Kunshan City, Jiangsu Province, China

has been assessed and certified as meeting the requirements of

IATF 16949:2016
(1st revision, 01/10/2016)

for the following activities

Design and production of Relays, signal flashers, chargers, battery isolators and battery monitors

with product design responsibility

This certificate is valid from 15/06/2017 until 14/06/2020

To verify that this certificate is current please refer to IATF Oversight website at http://www.iatfglobaloversight.org and enter the IATF database number from this certificate in the certificate validity check section.

Authorised by

TÜV SAAR CERT Certification Body of TÜV Saarland e.V.
Am TÜV 1, 66280 Saarbrücken (Germany)
(+49)(0)68 87-509-208 (+49)(0)68 87-509-228 support@tuv-saar-cert.de

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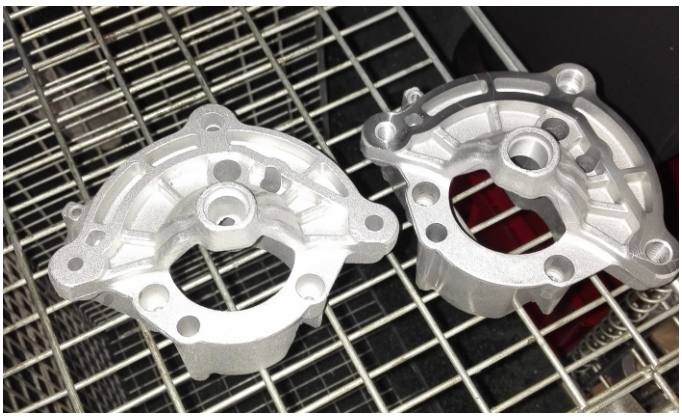
IATF 16949

CERTIFICATE

AOPEC

www.aopec.com

We stand behind our products and strive to provide the optimal customer experience. 100% tested and inspected prior to shipment.



Continuous new product development plan to meet the growing market demand.

Alternators & Components

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Complete Alternators

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	33A	1	55.3mm

Desc/Notes: G1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: - ENGINE: BF4L , BF6L , F2L , F4L , F5L , F6L . CASE - AGRICULTURAL . DEUTZ - AGRICULTURAL , - INDUSTRIAL . INTERNATIONAL HARVESTER - AGRICULTURAL . JOHN DEERE - AGRICULTURAL . KHD - INDUSTRIAL . MASSEY FERGUSON - AGRICULTURAL . RUGGERINI - INDUSTRIAL

AOPEC: A020409244B

Replacing: 0120339531, 0986030130

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	45A	4	84mm

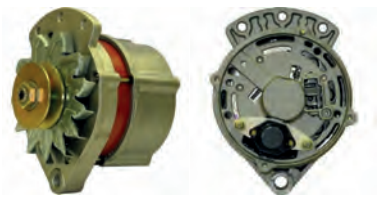
Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: - ENGINE: 18R , 2Y , 3Y , 4Y . TOYOTA CRESSIDA 1.8L/2.0L, DYNA, HIACE 1.8L/2.0L/2.2L, HILUX 1.6L/1.8L, STALLION, VENTURE

AOPEC: A020403647

Replacing: 9120690132, 9120690377, 9120690279, 9120690239

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
12V	55A	1	27mm

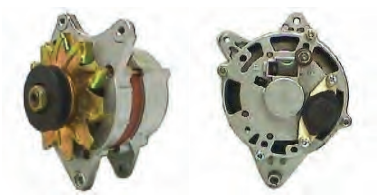
Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). SINGLE FOOT (26mm)

Vehicle Apps: UNIVERSAL - 12V

AOPEC: A020403669

Replacing: 9120690167

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
12V	55A	1	55mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). NARROW BOTTOM MOUNTING FEET - NO RK2 REGULATOR FITTING, TAKES EYE TERMINALS

Vehicle Apps: FORD HUSKY. MITSUBISHI COLT, L300, STARWAGON

AOPEC: A02250920

Replacing: 9120690207, 9120690206

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	55A	1	56mm

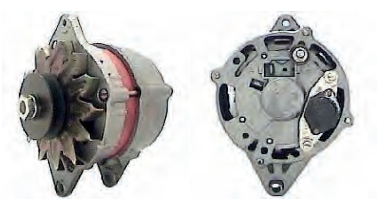
Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 55MM BOTTOM MOUNTING FOOT - NO RK2 PLUG FITTING, TAKES EYE TERMINALS

Vehicle Apps: - ENGINE: OM353 . BELL - EARTHMOVING . CASE - AGRICULTURAL . CLAAS - INDUSTRIAL . DEUTZ - INDUSTRIAL . FENDT - AGRICULTURAL . FORD - AGRICULTURAL . IVECO - TRUCK/BUS . LINDE - FORKLIFTS . NEW HOLLAND - AGRICULTURAL . STEYR - AGRICULTURAL

AOPEC: A020403603, A020403660, A020409204

Replacing: 0120489710

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
12V	55A	1	56mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). NO RK2 REGULATOR FITTING, TAKES EYE TERMINALS

Vehicle Apps: - ENGINE: 4G54 , B6 , ESSEX , F2 , F6 , F8 , FE , ROCAM . FORD BANTAM 1.3L/1.3i/1.6L/1.6i, COURIER 1.6L/2.0L, SPECTRON 2.2 L. MAZDA B1600, B1800, B2000, B2600i HI-RIDER, B3000 MAGNUM, MARATHON 2.2L. MITSUBISHI L300

AOPEC: A022703607

Replacing: 9120690233

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Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	55A	None	56mm

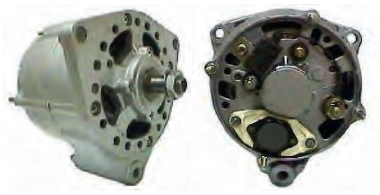
Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).
Pins: W-TERM. HAS NO RK2 PLUG FITTING

Vehicle Apps: ADE - INDUSTRIAL . BELL - EARTHMOVING . DEUTZ - EARTHMOVING , - INDUSTRIAL . VM - INDUSTRIAL

AOPEC: A020403696

Replacing: 0120488185, G205900010011, 1178521, 20030014

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
12V	55A	None	80mm

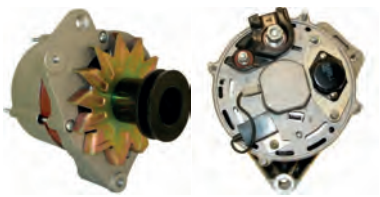
Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).
HAS REVOLUTION COUNTER TERMINAL - HAS NO RK2 PLUG FITTING
TAKES EYE TERMINALS

Vehicle Apps: - ENGINE: OM352 , OM366 . ADE - TRUCK/BUS . BELL - EARTHMOVING . MAN - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS . SCANIA - TRUCK/BUS . VOLVO - TRUCK/BUS

AOPEC: A020403623

Replacing: 0120489315, 0120489032

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
12V	65A	1	55.4mm

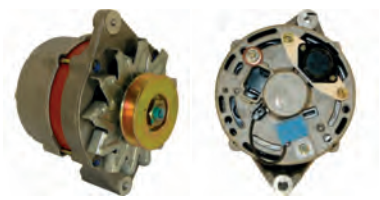
Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: AUDI 100, 80, 90. VOLKSWAGEN GOLF I 1.5L/I 1.6L/I 1.8 L/II 1.6L/II 1.8L, JETTA II 1.8L, KOMBI, PASSAT, TRANSPORTER

AOPEC: A020403601B

Replacing: 0120489185, 0120489364, 0120489365, 0120489499, 0120489370

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
12V	70A	1	55mm

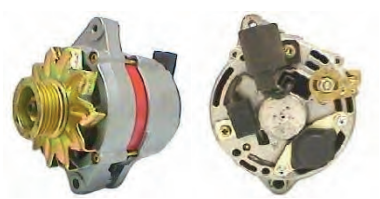
Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: - ENGINE: C20LE , C20NE , C22NE . BELL B20B. ISUZU KB 2.0i/2.2i/PETROL, KB200 PETROL, KB220 PETROL

AOPEC: A020403698

Replacing: 9120690498, 9120690508, 9360185500, R120690508

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
12V	70A	5	55mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).
ADJUSTMENT 1PM -HAS NO RK2 PLUG FITTING USES EYE TERMINALS

Vehicle Apps: - ENGINE: 3SFE , 4AGE , 5SFE . TOYOTA CAMRY 200i/220i, COROLLA 1.6i, RAV4 2.0L

AOPEC: A020409206

Replacing: 9120690434

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	70A	6	56mm (X2)

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).
Pins: 3P D+ B+ B+. HAS 3-PIN RK2 PLUG - DOUBLE THICK FOOT

Vehicle Apps: - ENGINE: M102 , M103 , OM601 , OM602 , OM603 . KHD - EARTHMOVING . MERCEDES-BENZ 190E, 200E, 230E, 250D, 300D, 300E

AOPEC: A020403672

Replacing: 0120489326, 0120489324, 0120489325, 0120489323, 0071545802

Complete Alternators

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	70A	6	59.1mm

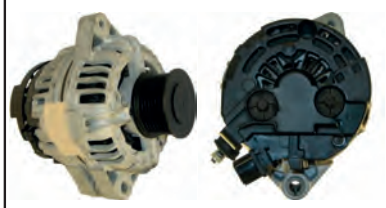
Desc/Notes: GCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: B+ D+.

Vehicle Apps: - ENGINE: 14NE , 16SE , 178 . FIAT PALIO 1.4L/1.5L/1.6L, SIENA 1.4L/1.6L, STRADA 1.6L. OPEL ASTRA 1.6L, CORSA 1.4L

AOPEC: A020409217

Replacing: 0124225028, 93603241

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
12V	70A	7	55mm

Desc/Notes: KCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P IG-S-L-DFM.

Vehicle Apps: - ENGINE: 1KD , 2KD . TOYOTA FORTUNER 3.0L DIESEL, HILUX 3.0L DIESEL, QUANTUM 2.5L

AOPEC: A020409208, A020409208A

Replacing: 0124315034, 270600L030

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	80A	5	44mm

Desc/Notes: KC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P S-IG-L.

Vehicle Apps: - ENGINE: 4AFE , 7AFE . TOYOTA AVENSIS, CONQUEST 160i, COROLLA 1.6L/1.8L/180i

AOPEC: A022809203

Replacing: 9123325002, 0123325002, 2706002060

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	80A	6	40.4mm

Desc/Notes: KCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P S-IG-DF-L. SQUARE PLUG

Vehicle Apps: - ENGINE: 1ZZFE , 3ZZFE , 4ZZFE . TOYOTA AVENSIS 1.6i 16V/1.8i 16V, COROLLA 1.4i/1.6i

AOPEC: A020409251

Replacing: 0124315029, 270600D130

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	80A	7	55mm

Desc/Notes: KCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P IG-S-L-DFM.

Vehicle Apps: - ENGINE: 1KD , 2KD . TOYOTA FORTUNER 3.0L TDi, HILUX 2.5L DIESEL/3 0L DIESEL, QUANTUM 2.5L D4D

AOPEC: A020409218

Replacing: 0124315033, 270600L040

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	90A	1	56mm

Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). FOR AIRCON APPLICATIONS - LONG PULLEY - NO RK2 PLUG FITTING

Vehicle Apps: - ENGINE: 2E , AAL , DJ , DX , EV , HM , HV , KR . AUDI 100 1.8L, 80 1 8L. VOLKSWAGEN GOLF I 1.8L/II 1.8L, JETTA II 1.8L CLi/II 2.0L/II 2.0L CLi

AOPEC: A020409214

Replacing: 0120469729, 0120469732, 0120469863, R120469729

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Manuf/Sys: BOSCH

Volts	Amps	Grooves	Mounting
12V	90A	1	85mm

Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: FORD - AGRICULTURAL , - LDV/VAN/MPV/4X4/PICK-UP , - PASSENGER . HYSTER - FORKLIFTS . MASSEY FERGUSON - AGRICULTURAL . NISSAN - LDV/VAN/MPV/4X4/PICK-UP , - MINI-BUSES , - PASSENGER , 1200, 1400, 1600, 1800, E20. TOYOTA - FORKLIFTS , - LDV/VAN/MPV/4X4/PICK-UP , - MINI-BUSES , - PASSENGER . UNIVERSAL - 12V

AOPEC: A020409239

Replacing: 66021155B

Manuf/Sys: BOSCH

Volts	Amps	Grooves	Mounting
12V	90A	6	56mm (x2)

Desc/Notes: KC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: B+ D+ W-TERM. HAS NO RK2 PLUG FITTING TAKES EYE TERMINALS

Vehicle Apps: - ENGINE: M103 , M104 , M111 . MERCEDES-BENZ 200CE, 200E, 220E, 230E, 280E, C180, C200, C220, C280, E200, E220, E320, ML230, SLK200

AOPEC: A020409207B

Replacing: 9123335002, 0123335002, 0091540202

Manuf/Sys: BOSCH

Volts	Amps	Grooves	Mounting
12V	90A	6	56mm (x2)

Desc/Notes: KCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: B+ D+ W-TERM.

Vehicle Apps: - ENGINE: M104 , M111 . MERCEDES-BENZ C180 T-MODELL, C200 T-MODELL, C220, C230 T-MODELL, CLK200, E230, E280, G320

AOPEC: A020409207B, A020409233B, A025509200

Replacing: 0123320044, 9123369044, 0101544602

Manuf/Sys: BOSCH

Volts	Amps	Grooves	Mounting
12V	90A	6	60.4mm (X2)

Desc/Notes: KCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: AUDI A3 1.6L/1 8L, S3. SEAT IBIZA 1.4L/1.6L. VOLKSWAGEN CADDY 1.4L, GOLF IV 1.6L, JETTA IV 1.6L, POLO 1.4L/1. 6L, SHARAN 2.0L

AOPEC: A020009246B

Replacing: 0124325013, 0124325032, 037903025M, 038903018A, 037903025T

Manuf/Sys: BOSCH

Volts	Amps	Grooves	Mounting
12V	90A	6	60mm (x2)

Desc/Notes: KCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-DFM. 2X DOUBLE FOOT MOUNTING

Vehicle Apps: AUDI A3 1.6L/1 8L, S3, TT COUPE 1.8L T/ROADSTER 1.8 L T. VOLKSWAGEN GOLF IV 1.4L/IV 1.6L/IV 1.8L/IV 2.0L, JETTA IV 1.6L, NEW BEETLE 1.8L/2.0L, POLO 1.6L/1.8L/2.0L

AOPEC: A098604203R

Replacing: 0124325003, 028903028D

Manuf/Sys: BOSCH

Volts	Amps	Grooves	Mounting
12V	90A	6	61.5mm

Desc/Notes: KCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN. 2X DOUBLE MOUNTING BRACKETS - HAS FREE RUNNING CLUTCH PULLEY

Vehicle Apps: - ENGINE: ASZ , ATD . AUDI A3 1.9L TDi. VOLKSWAGEN BEETLE 1 9L TDi, GOLF IV 1.9L TDi, POLO 1 9L COUPE TDi/1.9L TDi/1. 9L TDi CLASSIC, SHARAN 1.9L TDi, TRANSPORTER 1.9L TDi

AOPEC: A0210409213

Replacing: 0124325001, 038903023L

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Complete Alternators

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	90A	6	61mm Both

Desc/Notes: KC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 2X DOUBLE MOUNTING FEET - HAS NO RK2 PLUG FITTING

Vehicle Apps: - ENGINE: ACH , AFV , AFW , AFX , AGY , BBV , BSC . VOLKSWAGEN GOLF I 1.4L/I 1.4i/I 1.6i/III 1.6L/III 1.6i/III 1.8L/III 1.8i/III 2.0 i, JETTA III 1.6i/III 1.8i/III 2.0i, POLO 1.4i CLASSIC/1.6i CLASSIC/1.6i PLAYA/1.8i CLASSIC/1.8i PLAYA

AOPEC: A020409252R

Replacing: 9123320007, 0123320007, 028903025Q, 95VW10300NA

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	90A	6	75.2mm

Desc/Notes: KC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: B+ D+ W-TERM. FREE RUNNING CLUTCH PULLEY - SIDE-MOUNT

Vehicle Apps: - ENGINE: OM611 , OM612 . MERCEDES-BENZ SPRINTER

AOPEC: A028909201B

Replacing: 0123320065, 0111540602

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	90A	7	30mm

Desc/Notes: KCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: 1GRFE , 2TRFE . TOYOTA HILUX 2.7L PETROL/4.0L 16V 4X4, QUANTUM 2.7L PETROL

AOPEC: A020409260, A020409260B

Replacing: 0124325165, 270600P120

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	98A	6	58mm

Desc/Notes: KCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: K4J , K4M , K7J , K7M . RENAULT CLIO 1.4L 16V/1.6L 16V, KANGOO 1.6L 16V, LAGUNA 1.6L 16V, LOGAN, MEGANE 1.4L 16V/1.6L 16V, SCENIC 1.4L 16V/1.6L 16V, THALIA 1.4L 16V/1.6L 16V

AOPEC: A0204036105

Replacing: 0124415013, 7700434900

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	100A	5	59mm

Desc/Notes: KCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). NB!!!: THIS UNIT HAS NO FIELD DIODES.

Vehicle Apps: - ENGINE: 14NE , C16SE , C16SEL , C18XE , X18XE , Y17DTL , Z16XE , Z18XE . OPEL ASTRA 1.4i/1.6i/1.8i/2 0i, CORSA 1.4i/1. 6i/1.7L DTi/1.8i, MERIVA, TIGRA, VECTRA, ZAFIRA

AOPEC: A020009234B

Replacing: 0124415002, 90561971, 9195753

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	100A	5	90mm

Desc/Notes: KCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-DFM.

Vehicle Apps: - ENGINE: Z20NET , Z22SE . OPEL ASTRA 2.2L, VECTRA 2.0L/2.2L, ZAFIRA 2.2L

AOPEC: A098604206R

Replacing: 0124415009, 0124415025

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Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	120A	5	59.5mm (X2)

Desc/Notes: NCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: X20XEV , Z12XE . OPEL ASTRA 1.2i/2.0i, CORSA 1.4L 16V, TIGRA 1.4L 16V

AOPEC: A098604208

Replacing: 0124515085, 24437121

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	120A	6	60mm (x2)

Desc/Notes: NCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-DFM.

Vehicle Apps: OPEL ASTRA 2.0L D/2.0L DT/2.0L DTi, ZAFIRA 2.0L D/2. 0L Di

AOPEC: A098604205

Replacing: 0124515032

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	120A	6	61mm

Desc/Notes: NC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: AR16102 , AR32401 , AR34102 . ALFA ROMEO 156 2.5L 24V, 166 2.0L/2.5L/3.0L V6 24V, GTV 3.0L V6 24V, SPIDER 3.0L V6 24V

AOPEC: A020009203

Replacing: 0123510095, 60655296

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	120A	6	77mm

Desc/Notes: NCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-15.

Vehicle Apps: - ENGINE: 226S1 , 256S5 , 306S3 . BMW 320i, 325Ci, 325i, 330Ci, 330i, 520i, 525i, 530i, X5 3.0i, Z3

AOPEC: A020409249, A020409310

Replacing: 0124515050, 0986041810, 12317501599, 12317501690, 12317501597

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	120A	6	80mm

Desc/Notes: NCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PINS.

Vehicle Apps: - ENGINE: 8140 . IVECO DAILY 29L/35C/50C

AOPEC: A020409258B

Replacing: 0124515044, 0986042820, 500335719

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	120A	7	60mm (X2)

Desc/Notes: NC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). DOUBLE-DOUBLE FOOT MOUNTING

Vehicle Apps: - ENGINE: AAA . VOLKSWAGEN CARAVELLE 2.8L T4, GOLF III 2 8L/III 2.8i VR6, JETTA 2 8L VR6, MULTIVAN 2 8L, PASSAT 2.8 L VR6, SHARAN 2.8L, TRANSPORTER 2.8L, VENTO 2.8L

AOPEC: A020409247

Replacing: 0123510053, 0123510007, 95VW10300KB

Complete Alternators

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	120A	8	50mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: B+ D+ W.

Vehicle Apps: JOHN DEERE - AGRICULTURAL

AOPEC: A020409219

Replacing: 0120484027, AH165975

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	140A	6	61.7mm (X2)

Desc/Notes: E8. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-DFM.

Vehicle Apps: AUDI A3, A4 1.9L TDi, S3. SEAT - PASSENGER . VOLKSWAGEN CADDY 1.9L TDi, GOLF V 1.9L TDi/V 2.0L TDi, JETTA V 1.9L TDi, PASSAT 1.9L TDi, TOURAN 1.9L TDi

AOPEC: A020009223A

Replacing: 0124525091, 06F903023F

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	145A	6	60mm

Desc/Notes: E8. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). E46 TYPE

Vehicle Apps: - ENGINE: N40 , N42 , N45 , N46 . BMW 316Ci COUPE, 316i, 318Ci COUPE, 318i TOURING

AOPEC: A020409227

Replacing: 0124525045, 12317521490

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	150A	6	45.5mm (x2)

Desc/Notes: E8. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-DF.

Vehicle Apps: CITROEN C2, C3, C4, C5, C8, JUMPER, JUMPY. FIAT DUCATO, SCUDO, ULYSSE. PEUGEOT 1007 1.4L HDi/1.6L HDi, 206 1.4L HDi/1.6L HDi/2.0L HDi, 207 1.4L HDi/1.6L HDi, 3008 1.6L HDi, 307 1.6L HDi/2.0L HDi, 308 1.6L HDi/2.0L HDi, 406 2.0L HDI, 607 2.0L HDi/2.2L HDi, 807 2.0L HDi/2.2L HDi, BOXER, EXPERT, PARTNER

AOPEC: A010409203B

Replacing: 0124525035, 0986046240, 5705AS

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	150A	6	55mm (x2)

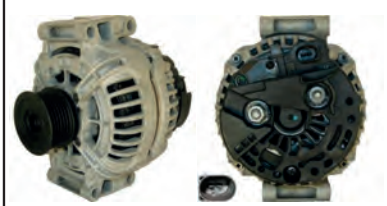
Desc/Notes: NC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: MERCEDES-BENZ CLK430, CLK55, E280, E320, E430, ML430, SPRINTER, VITO

AOPEC: A020409234B

Replacing: 0123520006, 0101542902

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
12V	150A	6	76mm

Desc/Notes: NCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: AUDI A4 1.6L/1.6L AVANT/1.8L/1.8L T/1.8L T AVANT/2.0L/2.0L AVANT, A6 2.0L/2.0L AVANT

AOPEC: A028909247B

Replacing: 0124615009, 06B903016Q

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Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	150A	7	

Desc/Notes: NFB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).
Pins: 2-PIN. TOTALLY ENCLOSED UNIT; WATER COOLED. VERY NB!!!
ON REPLACING THE ALTERNATOR, ON THESE VEHICLES, BOTH (2)
BATTERIES OF THE VEHICLE NEED TO BE REPLACED!!!

Vehicle Apps: - ENGINE: 398D1 , M62B44 . BMW 535i, 540i, 735i, 740i,
X5 4.4i/4.6iS. LAND ROVER RANGE ROVER 4.4L V8

AOPEC:
A020409245B

Replacing: 01220AA1J0,
12317508052, 0986041750,
YLE000040

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
12V	150A	8	56mm (X2)

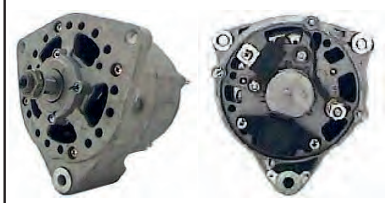
Desc/Notes: NC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: JOHN DEERE - AGRICULTURAL , TRACTORS

AOPEC:
A020409256B

Replacing: 0123515502, RE185213

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
24V	30A	None	80mm

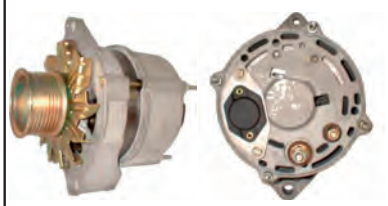
Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).
Pins: B+ D+ W. HAS REVOLUTION COUNTER TERMINAL - NO PULLEY

Vehicle Apps: - ENGINE: ADE , OM366 , OM422 , OM441 , OM442 . ADE
- TRUCK/BUS , 352. BELL - EARTHMOVING . HINO - TRUCK/BUS , FF13
5.7L. ISUZU - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS .
MITSUBISHI - TRUCK/BUS . TOYOTA - TRUCK/BUS

AOPEC:
A020403652

Replacing: 0120489316,
0120488277, 0120488256

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
24V	45A	8	51mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).
Pins: 1P W (B+ D+). ISUZU/CUMMINS ENGINE - NORMALLY SUPPLIED
WITHOUT PULLEY

Vehicle Apps: - ENGINE: S6D . CUMMINS - EARTHMOVING . KOMATSU
D41A, D41E, D41P

AOPEC:
A010409201B

Replacing: 0120488294,
0120488206, 3284392

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	55A	1	64mm

Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).
HAS NO RK2 PLUG FITTING - TAKES EYE TERNMINALS

Vehicle Apps: - ENGINE: 8040 , 8060 , 8210 . DETROIT - TRUCK/BUS .
IVECO EUROCARGO, EUROTECH, EUROTRAKKER, TURBOSTAR.
TAMROCK 1250

AOPEC:
A020403611

Replacing: 0120469679,
0120469978, 98419031, 0120469849,
0120469549

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	55A	2	80mm

Desc/Notes: N1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: CUMMINS - TRUCK/BUS . DAF - TRUCK/BUS . MAN -
TRUCK/BUS . PERKINS - TRUCK/BUS . SAMIL - TRUCK/BUS

AOPEC:
A020403693

Replacing: 0120469038,
0120469562, 0120469527

Complete Alternators

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	55A	None	56mm

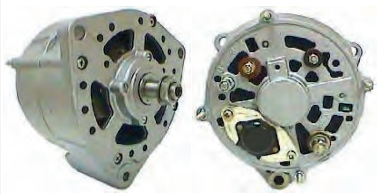
Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). HAS NO RK2 PLUG FITTING, TAKES EYE TERMINALS - DOUBLE 55MM MOUNTING

Vehicle Apps: DEUTZ - INDUSTRIAL . IVECO - TRUCK/BUS . LIEBHERR - EARTHMOVING . POWERSTAR - TRUCK/BUS

AOPEC: A020409209

Replacing: 0120469585, 0120469008, 0120469030, 0120469773

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
24V	55A	None	80mm

Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). HAS NO RK2 PLUG - TAKES EYE TERMINALS - NORMALLY COMES WITH NO PULLEY

Vehicle Apps: - ENGINE: D2866 , OM356 , OM357 , OM366 , OM422 , OM442 , WS268M . ADE - TRUCK/BUS , 352, 407, 409, 422, 447. DAF - TRUCK/BUS . DEUTZ - EARTHMOVING . ERF - TRUCK/BUS . HINO - TRUCK/BUS . LEYLAND - TRUCK/BUS . LIEBHERR - EARTHMOVING . MAN - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS . SCANIA - TRUCK/BUS

AOPEC: A020009242, A020403653, A020409211, A020409223, A028809207

Replacing: 0120469686, 0120469982, 0091540702, 0071542702, 51261017185

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	55A	None	80mm

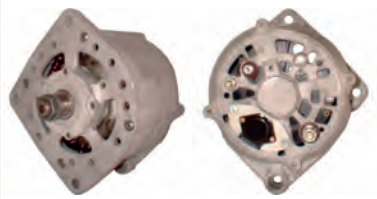
Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: SCANIA 111, 112, 113, 140, 81, 82, 86, 92, 93, K-SERIES, P-SERIES, R-SERIES

AOPEC: A021009208B, A20101062

Replacing: 0120469569, 0120469643

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
24V	65A	None	71mm

Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: - ENGINE: DSC11 , DSC12 , DSC14 , DSC9 . SCANIA K-SERIES, P-SERIES, R-SERIES, T-SERIES

AOPEC: A020009208, A020409221B, A021009201B, A021009203

Replacing: 0120468131, 1394969

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	80A	1	72mm

Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: - ENGINE: 8040 , 8060 , 8210 , 8360 . IVECO EUROCARGO, EUROTECH, EUROTRAKKER. SCANIA B-SERIES, K-SERIES, R-SERIES, T-SERIES

AOPEC: A020003603, A021009207

Replacing: 0120468116, 98424748, 0120468094, 0120468124, 0120468129

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	80A	2	50mm

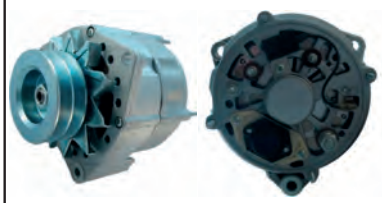
Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). SINGLE FOOT - MANY AFTERMARKET SUPPLIERS HAVE THIS UNIT WITH NO PULLEY, MAKE SURE WHEN YOU ORDER IF YOU NEED THE PULLEY.

Vehicle Apps: - ENGINE: D6A , D7A , D7B , D7C , DH10A . VOLVO A35, B10B, B10M, B7R, F, FL, FS, MARCOPOLO, NL

AOPEC: A020403655B

Replacing: 0120468114, 1089862

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
24V	80A	2	80mm

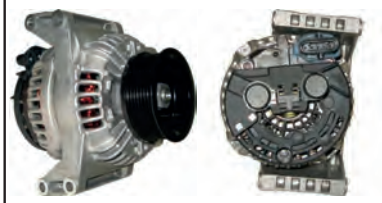
Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: - ENGINE: DNS620 , OM356 , OM366 , OM422 , OM423 , OM446 , WS242 . DAF - TRUCK/BUS , 85, 95. IVECO - TRUCK/BUS . MAN E2000, F2000, F90, L2000, M2000. MERCEDES-BENZ - TRUCK/BUS

AOPEC: A021009206, A021009206B

Replacing: 0120468107, 0120468053, 0120468113

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
24V	80A	7	60.6mm

Desc/Notes: HD8L. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 5P W-L-15-S-DFM.

Vehicle Apps: - ENGINE: MX265 , MX300 , MX340 , MX410 . DAF CF85, XF105, XF95

AOPEC: A0210409208

Replacing: 0124555018, 1626130

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	80A	8	106mm

Desc/Notes: NCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 5P W-L-15-S-DFM.

Vehicle Apps: - ENGINE: D13A , D16C , D9A . VOLVO FH, FH12, FH16, FM, FM9

AOPEC: A020409231

Replacing: 0124555017, 20466315

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	80A	8	80mm

Desc/Notes: NCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 5P W-L-15-S-DFM.

Vehicle Apps: - ENGINE: OM366 , OM904 , OM906 , OM924 , OM926 . MERCEDES-BENZ ACCELO, ATEGO, CITARO, UNIMOG

AOPEC: A028809203B

Replacing: 0124555002, 0124555022, A0121541002, A0131544002, A0121546802

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	80A	9	80mm

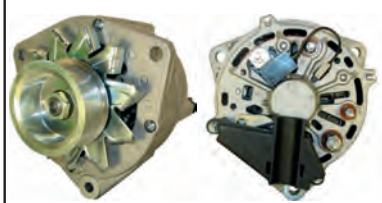
Desc/Notes: NCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 5P W-L-15-S-DFM.

Vehicle Apps: - ENGINE: OM541 , OM542 . MERCEDES-BENZ ACTROS

AOPEC: A020409210B, A0986042360R

Replacing: 0124555001, 0124555032, 0131542902

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
24V	80A	9	80mm

Desc/Notes: NL1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 1P W (B+ D+).

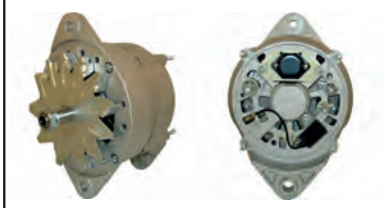
Vehicle Apps: - ENGINE: OM541 , OM542 . MAN - TRUCK/BUS . MERCEDES-BENZ ACTROS

AOPEC: A020409225, A020409254B, A021009218, A021009223

Replacing: 0120469116, 6033GB3019

Complete Alternators

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
24V	80A	None	105mm

Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). DOUBLE FOOT

Vehicle Apps: - ENGINE: D12A , D16A . VOLVO FH, FH12, FH16, FL

AOPEC: A020403651, A020409229

Replacing: 0120468093, 0120468135, 1096758, 8156817

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	80A	None	80mm

Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: DAF - TRUCK/BUS

AOPEC: A021009213

Replacing: 6033GB3054, 0120468137

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	95A	2	180mm

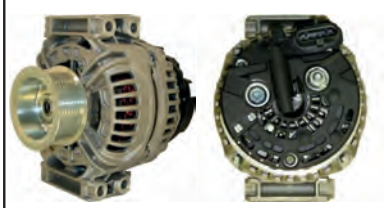
Desc/Notes: T1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: W B- D+ B+. T1 28V 95A 16 - OLDER TYPE - EXPOSED STATOR - 95AMPS - HAS NO RK2 PLUG FITTING - USES TERMINALS.

Vehicle Apps: MAN - TRUCK/BUS . MARCOPOLO - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS

AOPEC: A021009226B

Replacing: 0120689512, 0120689513, 0120689503, 0120689508

Manuf/Sys: **BOSCH**



Volts	Amps	Grooves	Mounting
24V	100A	8	62mm

Desc/Notes: NCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 5P W-L-15-S-DFM.

Vehicle Apps: - ENGINE: DC11 , DC12 , DC16 , DC9 . SCANIA K-SERIES, L-SERIES, P-SERIES, R-SERIES, T-SERIES

AOPEC: A020409212B, A098604202B

Replacing: 0124655007, 1475569

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	100A	9	80mm

Desc/Notes: NL1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: B+ D+ W.

Vehicle Apps: - ENGINE: OM541 , OM542 . MERCEDES-BENZ ACTROS, ATEGO, CITARO

AOPEC: A021009217B

Replacing: 0120468143, 0091549902, 081768143

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	100A	9	80mm

Desc/Notes: NCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 5P W-L-15-S-DFM.

Vehicle Apps: - ENGINE: OM457 , OM541 , OM542 . BELL B40. MERCEDES-BENZ ACTROS, AXOR

AOPEC: A020409220B, A020409220IM

Replacing: 0124655001, A0111548702, 0111548702, DC221717

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Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	100A	None	78mm

Desc/Notes: NC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 5P W-L-15-S-DUMMY.

Vehicle Apps: - ENGINE: D2866 . MAN E2000, F2000, L2000, M2000, NG-NL, TGA

AOPEC: A020009222B

Replacing: 0123525501, 51261017232, 51261017234, 51261017242, 51261017247

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	110A	8	105.6mm

Desc/Notes: NCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: D12D , DH12 . RENAULT - INDUSTRIAL . VOLVO B12B, FH12, FM12, FM9

AOPEC: A020409237, A098604201B

Replacing: 0124655008, 20409240

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	120A	2	180mm

Desc/Notes: T1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). TOTALLY ENCLOSED ALTERNATOR -17 DIODE RECTIFIER -HAS REVOLUTION COUNTER TERMINAL

Vehicle Apps: CUMMINS - TRUCK/BUS . IVECO - TRUCK/BUS . MAN - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS

AOPEC: A020403658

Replacing: 0120689545, 0120689533, 0120689520

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	140A	None	180mm

Desc/Notes: T1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). TOTALLY ENCLOSED STATOR - 17 DIODE RECTIFIER - HAS NO RK2 PLUG FITTING, TAKES EYE TERMINALS

Vehicle Apps: MAN - TRUCK/BUS . MERCEDES-BENZ AXOR, BUS, CITARO, CONECTO, INTEGRO, TRAVEGO. SCANIA - TRUCK/BUS

AOPEC: A020403656, A021009226B

Replacing: 0120689535, 0120689571, 0081547802, 0111545002

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	140A	None	182mm

Desc/Notes: T1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: W B- D+ B+.

Vehicle Apps: MAN - TRUCK/BUS . VOLVO - TRUCK/BUS

AOPEC: A020409230B

Replacing: 0120689527, 0120689541

Manuf/Sys: **BOSCH**

Volts	Amps	Grooves	Mounting
24V	140A	None	182mm

Desc/Notes: T1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: SCANIA K-SERIES, L-SERIES, N-SERIES

AOPEC: A021009231

Replacing: 0120689562, 0986044060, 475885

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Complete Alternators

Manuf/Sys: **CAV (TVS) - INDIA**

Volts	Amps	Grooves	Mounting
24V	29A	2	76mm

Desc/Notes: GAC5R. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: TATA BUS

AOPEC: A022303602

Replacing: 260015240101, AC5R24523

Manuf/Sys: **CHANA**

Volts	Amps	Grooves	Mounting
12V	70A	4	67.5mm

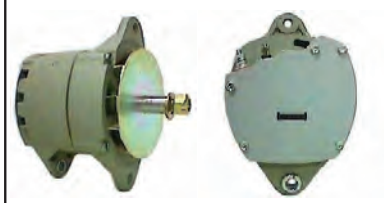
Desc/Notes: JL465Q. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: CHANA 1000CC

AOPEC: A020019200

Replacing: 3701010AB

Manuf/Sys: **DELCO**



Volts	Amps	Grooves	Mounting
12V	60A	None	100mm

Desc/Notes: 20SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING . INGERSOLL RAND - INDUSTRIAL . INTERNATIONAL - TRUCK/BUS . INTERNATIONAL HARVESTER - AGRICULTURAL . KOMATSU - EARTHMOVING . MACK - TRUCK/BUS

AOPEC: A021103642DR

Replacing: 1117618, 321666, 2S7029, 586986C91, 20SI12V

Manuf/Sys: **DELCO**

Volts	Amps	Grooves	Mounting
12V	72A	1	51mm

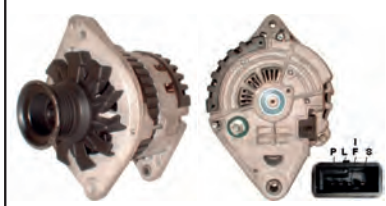
Desc/Notes: 10SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CASE - AGRICULTURAL . JOHN DEERE - AGRICULTURAL

AOPEC: A021103601B

Replacing: 1102922, 1105178, 1103035, 1103165

Manuf/Sys: **DELCO**



Volts	Amps	Grooves	Mounting
12V	75A	5	82mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 4P P-L-I-S.

Vehicle Apps: DAEWOO ESPERO 1.5L, LANOS 1 5L, NEXIA 1.5L

AOPEC: A021109233

Replacing: 10490000, 10490073, 96252551

Manuf/Sys: **DELCO**

Volts	Amps	Grooves	Mounting
12V	80A	None	101mm

Desc/Notes: 27SI 200. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING . INTERNATIONAL EAGLE. KOMATSU - EARTHMOVING . MACK - TRUCK/BUS

AOPEC: A021103602

Replacing: 1100080, 1100073, 1100083

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Manuf/Sys: DELCO

Volts	Amps	Grooves	Mounting
12V	85A	5	50.5mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 4P P-L-I-S.

Vehicle Apps: DAEWOO ESPERO 1.8L/2.0L

AOPEC: A020009273

Replacing: 219091, DRA3593, 96224432

Manuf/Sys: DELCO

Volts	Amps	Grooves	Mounting
12V	95A	8	50.8mm

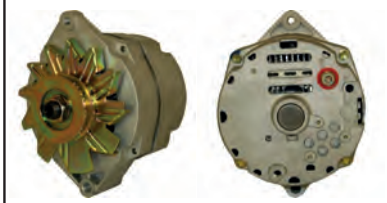
Desc/Notes: 11SI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: CASE 430 SKID STEER, 450 SKID STEER. NEW HOLLAND SKID STEER

AOPEC: A021009235, A021009285

Replacing: 8600000

Manuf/Sys: DELCO



Volts	Amps	Grooves	Mounting
12V	100A;85A	1	50mm

Desc/Notes: 10SI;10SI - TYPE 100. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 1-WIRE SELF EXCITING. FOR TRUCKS ONLY

Vehicle Apps: CASE - AGRICULTURAL . INTERNATIONAL - AGRICULTURAL . JOHN DEERE - AGRICULTURAL . MASSEY FERGUSON - AGRICULTURAL

AOPEC: A021103676B

Replacing:

Manuf/Sys: DELCO

Volts	Amps	Grooves	Mounting
12V	100A;130A	None	101mm

Desc/Notes: 21SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: I B+ R.

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . INTERNATIONAL EAGLE. MACK - TRUCK/BUS

AOPEC: A021103640DR

Replacing: 1117950, 1117880, 1117894, 1117905

Manuf/Sys: DELCO

Volts	Amps	Grooves	Mounting
12V	105A	6	51mm (x2)

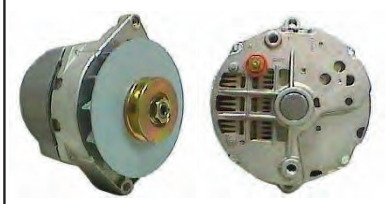
Desc/Notes: CS130D. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P S-IG-L-P.

Vehicle Apps: - ENGINE: 262 . CHEVROLET V6, V8

AOPEC: A024009203

Replacing: 10480167, 10480168, 10480198, 10463651, 8104636510

Manuf/Sys: DELCO



Volts	Amps	Grooves	Mounting
12V	108A	1	51mm

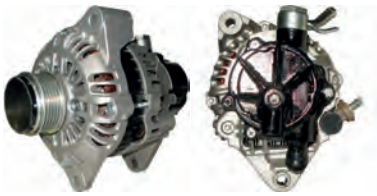
Desc/Notes: 17SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CHEVROLET - PASSENGER . INTERNATIONAL HARVESTER - AGRICULTURAL . JOHN DEERE - AGRICULTURAL

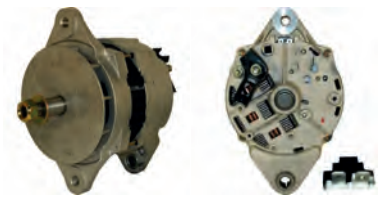
AOPEC: A021103617B

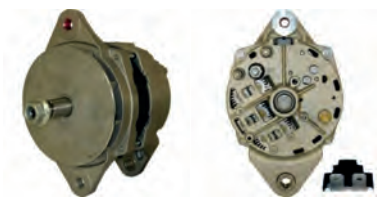
Replacing: 1105451, 1101164, 1101236, 1101113, CA5202

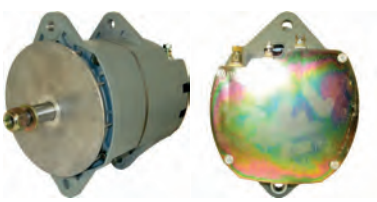
Complete Alternators

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	110A	5	80.7mm	A028909213
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P S-L. S-L TERMINALS - S=SENSE/L=TRIO (LIGHT) - WITH PUMP				
	Vehicle Apps: KIA 2.7L DIESEL, K3000				**Replacing:** 0K43A18300A, 373004X001, 373004X000

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	110A	None	100mm	A021009232A
	Desc/Notes: 34SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: FORD - TRUCK/BUS . KENWORTH - TRUCK/BUS . VOLVO - TRUCK/BUS				**Replacing:** 19011157

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	130A	None	101mm	A021103621B
	Desc/Notes: 21SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: CATERPILLAR - EARTHMOVING				**Replacing:** 10459028, 1117896, 1117904, 1117908, 1117928

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	130A	None	101mm	A021103628B
	Desc/Notes: 22SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: CATERPILLAR - TRUCK/BUS . CUMMINS - TRUCK/BUS . VOLVO - TRUCK/BUS				**Replacing:** 19020302

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	135A	None	101mm	A021103605
	Desc/Notes: 34SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). QUAD-MOUNT				
	Vehicle Apps: CATERPILLAR - EARTHMOVING . FREIGHTLINER - TRUCK/BUS . MACK - TRUCK/BUS . VOLVO - TRUCK/BUS				**Replacing:** 19011167

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	135A	None	101mm	A021009234, A028809204
	Desc/Notes: 33SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . INTERNATIONAL HARVESTER - AGRICULTURAL . VOLVO - TRUCK/BUS				**Replacing:** 10459142, 10459181, 19011152, 19011161, 19011173

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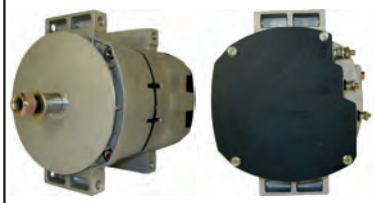
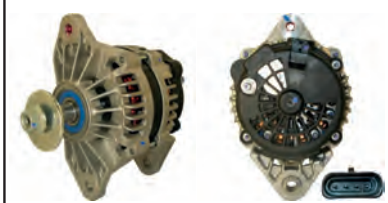
Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	135A	None	151mm	A021009233B
	Desc/Notes: 34SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). PAD-MOUNT				
	Vehicle Apps: FREIGHTLINER - TRUCK/BUS				**Replacing:** 19011177

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	140A	None	102mm	A021103627
	Desc/Notes: 35SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: CUMMINS - TRUCK/BUS . FREIGHTLINER - TRUCK/BUS . INTERNATIONAL - TRUCK/BUS . KENWORTH - TRUCK/BUS . PETERBILT - TRUCK/BUS . VOLVO - TRUCK/BUS				**Replacing:** 8600064

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	145A	None	101mm	A021014712
	Desc/Notes: 21SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . FORD NAVISTAR. INTERNATIONAL EAGLE. MACK - TRUCK/BUS . VOLVO - TRUCK/BUS				**Replacing:** 1117916, 1117924, 1117917, 1117921

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	160A	None	101.4mm	A19011101
	Desc/Notes: 31SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: FREIGHTLINER - TRUCK/BUS . INTERNATIONAL - TRUCK/BUS				**Replacing:** 19011101

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	160A	None	101mm	A021103616B, A021103645DR, A028809201B
	Desc/Notes: 21SI 355. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . FORD NAVISTAR. INTERNATIONAL EAGLE. MACK - TRUCK/BUS . VOLVO - TRUCK/BUS				**Replacing:** 19010126

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	160A	None	102mm	A021103621
	Desc/Notes: 24SI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). J180 HINGE MOUNT - NEGATIVE EARTH - BATTERY TERM=5/16 - WITH GROUND TERMINAL				
	Vehicle Apps: CUMMINS - TRUCK/BUS . MACK - TRUCK/BUS . VOLVO - TRUCK/BUS				**Replacing:** 8600142

Complete Alternators

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	160A	None	82.6mm	A021103682
	Desc/Notes: 28SI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: INTERNATIONAL HARVESTER - AGRICULTURAL				**Replacing:** 8600315

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	160A	None	83mm	A021103687B
	Desc/Notes: 24SI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P S-F-L-P. DOUBLE INTERNAL FAN - PAD-MOUNT				
	Vehicle Apps: FREIGHTLINER - TRUCK/BUS . INTERNATIONAL - TRUCK/BUS . KENWORTH - TRUCK/BUS . MACK - TRUCK/BUS . STERLING - TRUCK/BUS . VOLVO - TRUCK/BUS				**Replacing:** 8600889

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	170A	None	101mm	A021103678
	Desc/Notes: 36SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). BRUSHLESS				
	Vehicle Apps: KENWORTH - TRUCK/BUS . PETERBILT - TRUCK/BUS				**Replacing:** 8600125, 8700045

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	24V	45A	None	100mm	A020009276, A021103620R, A028809206B
	Desc/Notes: 20SI 300. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: B+ D+.				
	Vehicle Apps: CATERPILLAR - EARTHMOVING . INTERNATIONAL EAGLE. KOMATSU - EARTHMOVING . MACK - TRUCK/BUS				**Replacing:** 1117042, 1117645, 1117650, 1117642

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	24V	65A	None	102mm	A021009283, A0210409211
	Desc/Notes: 27SI 200. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: CATERPILLAR - EARTHMOVING . INTERNATIONAL EAGLE. MACK - TRUCK/BUS				**Replacing:** 1100077, C5107, 211129

Manuf/Sys: DELCO	Volts	Amps	Grooves	Mounting	AOPEC:
	24V	70A	8	101mm	A021103622B, A021103648DR
	Desc/Notes: 22SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: CUMMINS - AGRICULTURAL , - EARTHMOVING , - INDUSTRIAL . JOHN DEERE - AGRICULTURAL				**Replacing:** 19020382, 19020307, 10459333, 3935530

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Manuf/Sys: DELCO

Volts	Amps	Grooves	Mounting
24V	70A	None	100mm

Desc/Notes: 21SI 350. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . EUCLID - EARTHMOVING . INTERNATIONAL EAGLE. MACK - TRUCK/BUS

AOPEC: A020009214B, A021103646R, A028809202

Replacing: 1117900, 1117915, 1117944, 19010108, 1117897

Manuf/Sys: DELCO

Volts	Amps	Grooves	Mounting
24V	70A;75A	None	101mm

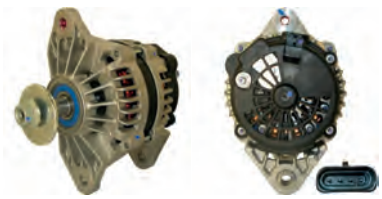
Desc/Notes: 23SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING . KOMATSU HD785

AOPEC: A021103624B

Replacing: 19011019

Manuf/Sys: DELCO



Volts	Amps	Grooves	Mounting
24V	70A	None	101mm

Desc/Notes: 24SI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P NF-F-L-P.

Vehicle Apps: CUMMINS - EARTHMOVING . TEREX - EARTHMOVING

AOPEC: A021103623R

Replacing: 8600017, 8600019, 8600020, 8600360, 8600407

Manuf/Sys: DELCO

Volts	Amps	Grooves	Mounting
24V	75A	None	100mm

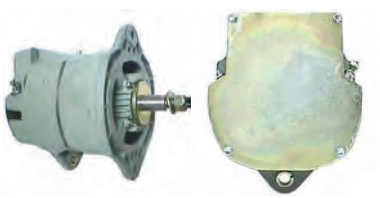
Desc/Notes: 26SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING . EUCLID - EARTHMOVING . INTERNATIONAL EAGLE. KOMATSU - EARTHMOVING . MACK - TRUCK/BUS

AOPEC: A021103625R, A028809205B

Replacing: 19010000, 19010008, 10459071, 10459076

Manuf/Sys: DELCO



Volts	Amps	Grooves	Mounting
24V	75A	None	101mm

Desc/Notes: 30SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). INTERNAL REGULATOR - BRUSHLESS - HAS SEALS FOR ADDED DUST PROTECTION - HAS NO TRANSFORMER

Vehicle Apps: CATERPILLAR - EARTHMOVING . EUCLID - EARTHMOVING . INTERNATIONAL EAGLE. KOMATSU - EARTHMOVING . MACK - TRUCK/BUS

AOPEC: A020009277, A021103630B

Replacing: 1117805, 900113097, 20132, 321671

Manuf/Sys: DELCO

Volts	Amps	Grooves	Mounting
24V	75A	None	101mm

Desc/Notes: 33SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING

AOPEC: A021009282

Replacing:

Complete Alternators

Manuf/Sys: **DELCO**

Volts	Amps	Grooves	Mounting
24V	75A	None	102mm

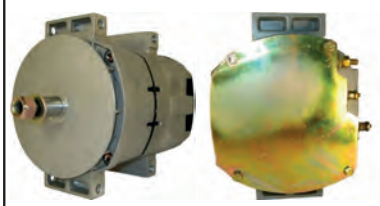
Desc/Notes: 25SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: B+ B-.

Vehicle Apps: CATERPILLAR - EARTHMOVING . EUCLID - EARTHMOVING . FORD 5000. INTERNATIONAL EAGLE. KOMATSU - EARTHMOVING . MACK - TRUCK/BUS

AOPEC: A021103626B

Replacing: 1117069, 1117238, 1117239, 1117256

Manuf/Sys: **DELCO**



Volts	Amps	Grooves	Mounting
24V	75A	None	150mm

Desc/Notes: 34SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). PAD-MOUNT

Vehicle Apps: CATERPILLAR - EARTHMOVING

AOPEC: A021009286R

Replacing: 19011207, 10459354, 1694319, 2002232

Manuf/Sys: **DELCO**

Volts	Amps	Grooves	Mounting
24V	80A	2	103.3mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: - ENGINE: DE12TIS . DAEWOO - EARTHMOVING . TATA NOVUS 3434/3439/5542

AOPEC: A022309210

Replacing: 65261017157A

Manuf/Sys: **DELCO**

Volts	Amps	Grooves	Mounting
24V	80A	None	102mm

Desc/Notes: 26SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING . EUCLID - EARTHMOVING . FORD 5000. INTERNATIONAL EAGLE. KOMATSU - EARTHMOVING . MACK - TRUCK/BUS

AOPEC: A021009280

Replacing: 19010024

Manuf/Sys: **DELCO**

Volts	Amps	Grooves	Mounting
24V	100A	None	101mm

Desc/Notes: 34SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). QUAD-MOUNT

Vehicle Apps: CATERPILLAR - EARTHMOVING , - INDUSTRIAL . CUMMINS - EARTHMOVING , - INDUSTRIAL

AOPEC: A021103635A

Replacing: 10459199, 19011168

Manuf/Sys: **DELCO**

Volts	Amps	Grooves	Mounting
24V	100A	None	102mm

Desc/Notes: 33SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING

AOPEC: A021103633B, A021103652DR

Replacing: 19011180, 19011175, 10459196, 10459251, 3675235RX

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Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
DELCO	24V	100A	None	102mm	A021109230, A021109230DR, A021109230R
	Desc/Notes: 30SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING				**Replacing:** 10459590, 1117817, 1117828, 1117838

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
DELCO	32V	60A	None	101mm	A1117733
	Desc/Notes: 30SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING				**Replacing:** 1117733, 1117747, 3604679RX

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
DONGFENG	24V	70A	8	70.7mm	A020009252
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: CUMMINS - INDUSTRIAL				**Replacing:** C3415691

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
FORD	12V	90A	6	98mm	A020009261
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: - ENGINE: ROCAM . FORD FIESTA 1 3L, KA 1.3i/1.6i				**Replacing:** 2015001001, 4063782, 2S6T10300FB

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
FORD	12V	100A	5	56.5mm	A020009218
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: - ENGINE: ROCAM . FORD BANTAM 1.3L/1.6L/1.8L, FIESTA 1.3L/1.6L, IKON 1.3L/1.6L				**Replacing:** XS6110300CA, XS61CA

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
FORD	12V	100A	6	97mm	A020009204B
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: - ENGINE: ROCAM . FORD BANTAM 1.3L A/C/1.6L A/C, FIESTA 1.3L A/C/1.6L A/C, IKON 1.3L A/C/1.6L A/C				**Replacing:** XS6110300BD, XS61BD, XS6110300BE, XS61BE

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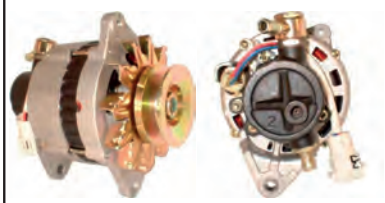
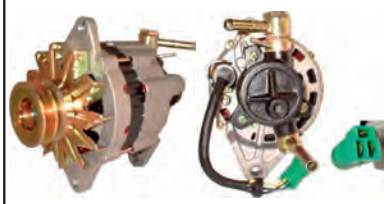
Complete Alternators

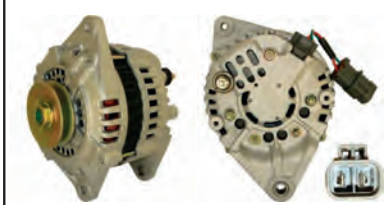
Manuf/Sys: HITACHI	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	50A	1	85mm	A021909206
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH PUMP				
	Vehicle Apps: ISUZU 2.5L DIESEL, KB250 DT				**Replacing:** LR150453B, 8971876540

Manuf/Sys: HITACHI	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	50A	1	85mm	A022803607, A022803607B
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH PUMP - RIGHT HAND FIT				
	Vehicle Apps: - ENGINE: 4JA1 . ISUZU KB250 D, KB280 D/DT				**Replacing:** LT150421, 8944017933, LR150442, 894382600, 8-94401-793-3

Manuf/Sys: HITACHI	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	50A	1	98mm	A021909212, A025603601, A05010500001
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 3P IG-S-L. LEFT HAND FIT ONLY, ON ISUZU 2.8 DIESEL - EXTERNAL REGULATOR - WITH VACUUM PUMP				
	Vehicle Apps: - ENGINE: 4FB1 , 4FC1 , 4FD60 , 4JB1 . ISUZU KB280 DT, WFR50				**Replacing:** 8944017932, LR150155B 8-94401-793-2

Manuf/Sys: HITACHI	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	55A	2	98mm	A021103604
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH PUMP				
	Vehicle Apps: TOYOTA HILUX 2.2L DIESEL/2.4L DIESEL				**Replacing:** 2704054060A

Manuf/Sys: HITACHI	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	60A	1	81.4mm	A020009278
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P S-L.				
	Vehicle Apps: - ENGINE: KA24E . NISSAN HARDBODY 2.4i, TERRANO 2.4L				**Replacing:** 231000S300, LR160727, LR1607270, 23100-0S300

Manuf/Sys: HITACHI	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	70A	1	81.4mm	A021209204B
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: - ENGINE: KA20 , KA24 . NISSAN HARDBODY 2.0L/2.4L				**Replacing:** 23100VJ210, 23100-VJ210

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Manuf/Sys: **HITACHI**

Volts	Amps	Grooves	Mounting
12V	70A	1	81mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 2P W-L. WITH PUMP

Vehicle Apps: OPEL ASTRA 1.7L DIESEL, CORSA 1.7L DIESEL

AOPEC: A028909203B

Replacing: LR170505, 8972410210, LR170511, 8971502000, 8971502001

Manuf/Sys: **HITACHI**

Volts	Amps	Grooves	Mounting
12V	70A	2	81mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-S.

Vehicle Apps: - ENGINE: TD27 . NISSAN 2 5L DIESEL, 2.7L DIESEL, 3.3 L DIESEL

AOPEC: A020009244

Replacing: 231007T403REPL, LR160728EREPL, 23100-7T403

Manuf/Sys: **HITACHI**

Volts	Amps	Grooves	Mounting
12V	70A	2	81mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 2P L-S. HAS VACUUM PUMP

Vehicle Apps: - ENGINE: TD25 , TD27 . KIA K2700. NISSAN 1-TONNER 2.2L DIESEL/2.3L DIESEL, 2.5L DIESEL, 2.7L DIESEL

AOPEC: A022803609, A022803609B

Replacing: 2310043G08, 2310054G01, LR150428S, 2310002N18, 23100-54G01

Manuf/Sys: **HITACHI**

Volts	Amps	Grooves	Mounting
12V	80A	1	83mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P S-L. WITH PUMP

Vehicle Apps: ISUZU KB250 D, KB300 D

AOPEC: A021909207B

Replacing: LR180513B, 8973272181

Manuf/Sys: **HITACHI**

Volts	Amps	Grooves	Mounting
12V	80A	4	81mm

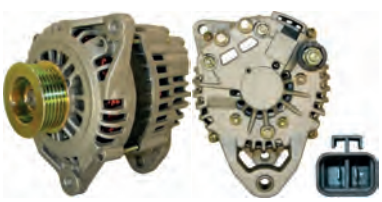
Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: KA20DE . NISSAN HARDBODY 2 0L

AOPEC: A021909209R

Replacing: LR180761, 23100VH300, 23100-VH300

Manuf/Sys: **HITACHI**



Volts	Amps	Grooves	Mounting
12V	90A	6	80.7mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: VG33E . NISSAN PATHFINDER 3.3L V6 PETROL, TERRANO 3.0L DIESEL

AOPEC: A021909213B

Replacing: LR190729, 231000W000

Complete Alternators

Manuf/Sys: **HITACHI**

Volts	Amps	Grooves	Mounting
12V	90A	7	82.3mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: 4JX1 . ISUZU D-MAX 3.0L DIESEL, KB300 D

AOPEC: A021909214B

Replacing: LR190763

Manuf/Sys: **HITACHI**

Volts	Amps	Grooves	Mounting
12V	100A	6	70mm

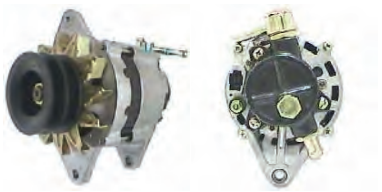
Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN. WITH PUMP

Vehicle Apps: - ENGINE: Y17DT . OPEL ASTRA 1.7L D, CORSA 1.7L D

AOPEC: A020009212B

Replacing: LR1100502, LR1100502B, LR1100502E, LR1100502F, LR1100502G

Manuf/Sys: **HITACHI**



Volts	Amps	Grooves	Mounting
24V	25A	2	80mm

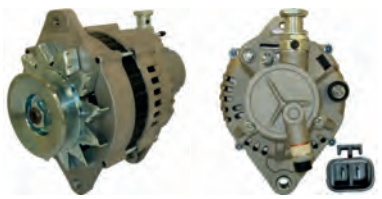
Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 3-PIN. WITH VACUUM PUMP

Vehicle Apps: - ENGINE: ED33 . NISSAN CABSTAR 35, ED33

AOPEC: A021903636

Replacing: LR22580B, 23100S9000, 23100-S9000

Manuf/Sys: **HITACHI**



Volts	Amps	Grooves	Mounting
24V	35A	1	83mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 2-PIN. WITH PUMP

Vehicle Apps: NISSAN 3.5L, CABSTAR DIESEL

AOPEC: A024009201R

Replacing: 231000T002, LR235502B 23100-OT002

Manuf/Sys: **HITACHI**

Volts	Amps	Grooves	Mounting
24V	40A	2	83mm

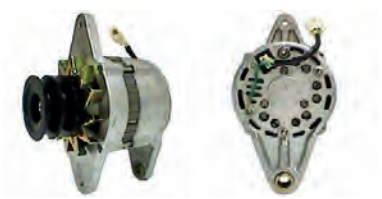
Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: T-Conn. WITH BIG PUMP

Vehicle Apps: - ENGINE: FE6 . NISSAN UD290

AOPEC: A020009220, A023809201B

Replacing: 2310004D00

Manuf/Sys: **HITACHI**



Volts	Amps	Grooves	Mounting
24V	50A	2	88mm

Desc/Notes: ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN);IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 3-PIN.

Vehicle Apps: - ENGINE: J07 , J08 . HINO - TRUCK/BUS , 5-TON, 6-TON

AOPEC: A022803610B

Replacing: 270402191HIT, 27040-2191

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Manuf/Sys: **HITACHI**

Volts	Amps	Grooves	Mounting
24V	50A	3	79mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 1P L (L/Trio). WITH PUMP

Vehicle Apps: - ENGINE: 4HJ1 . ISUZU FTR, NCR500, NPR300, NPR400

AOPEC: A028709201

Replacing: LR250517, 8971865510, 8971443921, 8-97186-551-0, 8-97144-392-1

Manuf/Sys: **HITACHI**

Volts	Amps	Grooves	Mounting
24V	50A	7	79.5mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-DUMMY.

Vehicle Apps: - ENGINE: 4HK1 . ISUZU NPR300

AOPEC: A021909215B

Replacing: LR250708E, 8980750260

Manuf/Sys: **HITACHI (SAWAFUJI)**

Volts	Amps	Grooves	Mounting
24V	50A	2	74mm

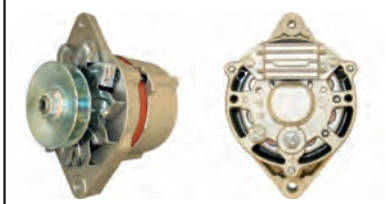
Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 4-PIN. HAS A SMALL WHITE PLUG WITH THREE ROUND PIN TERMINALS IN IT - SAWAFUJI REPLACEMENT

Vehicle Apps: NISSAN UD80

AOPEC: A020009206

Replacing: 23100Z5702HIT, 02011520420HIT, 02011520422HIT, 23100-Z5702

Manuf/Sys: **ISKRA**



Volts	Amps	Grooves	Mounting
12V	33A	1	26.7mm

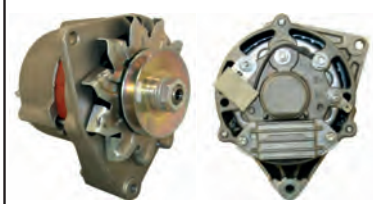
Desc/Notes: AAG. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: MASSEY FERGUSON - AGRICULTURAL . PERKINS - AGRICULTURAL

AOPEC: A027909201

Replacing: 11201095, AAG1310, IA0095

Manuf/Sys: **ISKRA**



Volts	Amps	Grooves	Mounting
12V	33A	1	56mm

Desc/Notes: AAG. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: - ENGINE: BF4L , F2L , F4L , F5L , F6L . CASE - AGRICULTURAL . DEUTZ - INDUSTRIAL . LIEBHERR - INDUSTRIAL . PERKINS - AGRICULTURAL . VM - INDUSTRIAL

AOPEC: A027909208

Replacing: 11201096, AAG1311, IA0096

Manuf/Sys: **ISKRA**

Volts	Amps	Grooves	Mounting
12V	55A	None	80mm

Desc/Notes: AAK. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: MAN - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS

AOPEC: A027909204

Replacing: 11201097, AAK1130, IA0097

Complete Alternators

Manuf/Sys: **ISKRA**

Volts	Amps	Grooves	Mounting
12V	65A	None	67.2mm

Desc/Notes: AAK. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: AGCO - AGRICULTURAL . DEUTZ - AGRICULTURAL . MASSEY FERGUSON - AGRICULTURAL . WACO - AGRICULTURAL

AOPEC
A027909210

Replacing: 11201463, AAK3563, IA0463

Manuf/Sys: **ISKRA**

Volts	Amps	Grooves	Mounting
12V	95A	8	80.3mm

Desc/Notes: AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: JCB 2CX BACKHOE LOADER, 3CX BACKHOE LOADER, DIESELMAX, GENERATOR

AOPEC
A027909220

Replacing: 11204138, AAK5813, IA0908

Manuf/Sys: **ISKRA**

Volts	Amps	Grooves	Mounting
12V	95A	None	50.5mm

Desc/Notes: AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: 4045D , 6068S , 6068T . JOHN DEERE - AGRICULTURAL

AOPEC
A027909222

Replacing: 11201875, AAK5165, IA0875

Manuf/Sys: **ISKRA**

Volts	Amps	Grooves	Mounting
12V	95A	None	56mm

Desc/Notes: AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: DEUTZ - AGRICULTURAL . KHD - INDUSTRIAL

AOPEC
A027909203

Replacing: 11203398, AAK5567, IA1023

Manuf/Sys: **ISKRA**

Volts	Amps	Grooves	Mounting
12V	120A	8	83mm

Desc/Notes: AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: CASE - AGRICULTURAL , MXM-SERIES. NEW HOLLAND - AGRICULTURAL , TM-SERIES

AOPEC
A027909218

Replacing: IA1225, 11.203.823, AAK5760

Manuf/Sys: **ISKRA**

Volts	Amps	Grooves	Mounting
24V	50A	2	101.7mm

Desc/Notes: AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: DAEWOO - EARTHMOVING , EXCAVATOR

AOPEC
A027909206

Replacing: 11201708, AAK5120, IA0708

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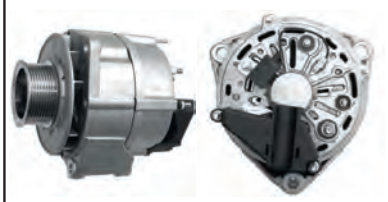
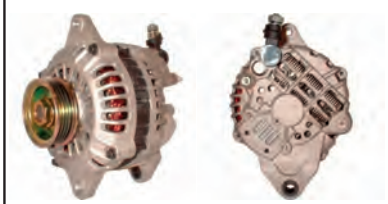
Manuf/Sys: ISKRA	Volts	Amps	Grooves	Mounting	AOPEC:
	24V	55A	None	56mm (x2)	A027909213
	Desc/Notes: AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: - ENGINE: BF6L . DEUTZ - AGRICULTURAL . KHD - AGRICULTURAL . LIEBHERR - EARTHMOVING				**Replacing:** 11203399, AAK5568, IA1026

Manuf/Sys: ISKRA	Volts	Amps	Grooves	Mounting	AOPEC:
	24V	55A	None	56mm (x2)	A027909215, A027909215B
	Desc/Notes: AAK. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: DEUTZ - INDUSTRIAL . KHD - INDUSTRIAL				**Replacing:** 11203396, IA1076, AAK5565

Manuf/Sys: ISKRA	Volts	Amps	Grooves	Mounting	AOPEC:
	24V	80A	None	56mm (X2)	A027909211B
	Desc/Notes: AAN. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: DEUTZ - AGRICULTURAL , - INDUSTRIAL . KHD - AGRICULTURAL , - INDUSTRIAL				**Replacing:** IA1031, 11.204.409, AAN5836

Manuf/Sys: ISKRA	Volts	Amps	Grooves	Mounting	AOPEC:
	24V	100A	9	80mm	A027909212
	Desc/Notes: AAN. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: MERCEDES-BENZ ACTROS, ATEGO, CITARO				**Replacing:** 11209422, AAN3112, IA9413

Manuf/Sys: JHECO	Volts	Amps	Grooves	Mounting	AOPEC
	12V	90A	4	75.2mm	A020009263
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: CAM INYATHI 2.2L TAXI				**Replacing:** JFZ19273

Manuf/Sys: LUCAS	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	45A	None	83mm	A028909205
	Desc/Notes: 17ACR;21ACR. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). PLASTIC COVER				
	Vehicle Apps: FORD CORTINA 1.3L/1.6L, ESCORT 1.3L/1.6L. PERKINS - INDUSTRIAL				**Replacing:** 92018

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Complete Alternators

Manuf/Sys: LUCAS	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	55A	1	85mm	A022303606IM, A260009202
	Desc/Notes: AS123. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: UNIVERSAL - 12V				
					Replacing: 66021155, 66022265, EL21155, EL22265

Manuf/Sys: LUCAS	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	55A	8	51mm	A02230360
	Desc/Notes: HA15. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: - ENGINE: 6BTA . TATA 713C, 713C 4X4, BUS/LCV				
					Replacing: 26021253, 393668000, 275415400101

Manuf/Sys: LUCAS	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	60A	1	85mm	A022303616
	Desc/Notes: AS123. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). LEFT HAND MOUNT				
	Vehicle Apps: - ENGINE: KENT . FORD 1.6L, 2.0L, CORTINA, ESCORT, SIERRA, XR3. MASSEY FERGUSON TRACTORS. PERKINS - INDUSTRIAL				
					Replacing: 66021113, 86BC10300BA, EL21113

Manuf/Sys: LUCAS	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	60A	1	86mm	A022309203, A022309203B
	Desc/Notes: AS123. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). RIGHT HAND MOUNT				
	Vehicle Apps: - ENGINE: ESSEX . FORD 2 0L, 3.0L V6, CORTINA, GRANADA, SAPPHIRE, SIERRA. MAZDA 3.0L V6				
					Replacing: 66021115, 86BC10300AA, EL21115

Manuf/Sys: LUCAS	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	60A	4	82mm	A022309206
	Desc/Notes: AS123. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). L-TERMINAL				
	Vehicle Apps: - ENGINE: GA14 , GA16 . NISSAN PRIMERA 1.6L, SENTRA 140/160				
					Replacing: 66021205, 23300ES003, EL21205

Manuf/Sys: LUCAS	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	65A	2	82mm	A022303603B
	Desc/Notes: 2SA23. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH POWER STEERING				
	Vehicle Apps: TATA 497, 509M, 709, 712, 713S				
					Replacing: 26021081, 257315100108

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Manuf/Sys: LUCAS

Volts	Amps	Grooves	Mounting
12V	65A	4	81mm

Desc/Notes: 3SA23. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH PUMP

Vehicle Apps: TATA 207 TELCOLINE 1.9L DIESEL

AOPEC: A022303604

Replacing: 26021117, 265415400129

Manuf/Sys: LUCAS

Volts	Amps	Grooves	Mounting
12V	70A	1	55.6mm

Desc/Notes: AS123. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: ISUZU KB220 PETROL. OPEL ASCONA 1.8L/2.0L, CUB 140, KADETT 1.8L/2.0L, MONZA 1.8L/2.0L, RECORD 2.0L

AOPEC: A022309211

Replacing: 66021101, 66021099, 93584704, 93580698, 66011103

Manuf/Sys: LUCAS

Volts	Amps	Grooves	Mounting
12V	75A	4	81mm

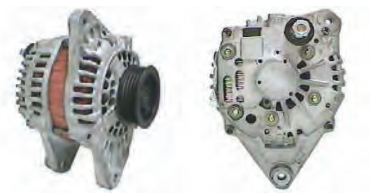
Desc/Notes: SA28. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: TATA INDICA LEI/LSI/LX/LXI

AOPEC: A022303674

Replacing: 26021326, 284315400101

Manuf/Sys: LUCAS



Volts	Amps	Grooves	Mounting
12V	90A	5	55mm

Desc/Notes: AS128i. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). MITSUBISHI REPL: A3T00792

Vehicle Apps: HYUNDAI SONATA. MITSUBISHI COLT 3.0L V6

AOPEC: A022503602

Replacing: 66021306, BW920008, EL21306

Manuf/Sys: LUCAS

Volts	Amps	Grooves	Mounting
24V	55A	1	86mm

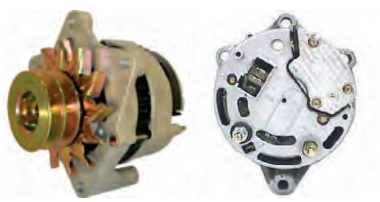
Desc/Notes: AS123. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: UNIVERSAL - 24V

AOPEC: A022309201, A02310362

Replacing: 66021174, EL21174

Manuf/Sys: LUCAS



Volts	Amps	Grooves	Mounting
24V	55A	2	80mm

Desc/Notes: AS123. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). "MISS PIGGY" - 3X ADJUSTMENT EARS - DOUBLE PULLEY

Vehicle Apps: ADE - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS . SCANIA - TRUCK/BUS . UNIVERSAL - 24V

AOPEC: A0120469001

Replacing: 66021134, EL21134

Complete Alternators

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
LUCAS	24V	75A	8	84mm	A022309204R
	Desc/Notes: SA45. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: TATA 1518				**Replacing:** 26021309, 050404651, 278615999971, 26021309A

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
LUCAS	24V	80A	1	50.3mm	A020009228B
	Desc/Notes: AS123. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: VOLVO - EARTHMOVING , B35				**Replacing:** ALT0001LUC

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
MAGNETI-MARELLI	12V	45A	1	65.4mm	A022403602
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: FIAT - AGRICULTURAL . IVECO - AGRICULTURAL . SAME - AGRICULTURAL				**Replacing:** 63320021, 63305206, 63305236

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
MAGNETI-MARELLI	12V	65A	4	83.8mm	A028909206B
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: B+ D+.				
	Vehicle Apps: - ENGINE: 176A , 176B , 178B . FIAT PALIO 1.2L, PUNTO 1.1L/1.2L/1.3L, SEICENTO, STRADA 1.2L				**Replacing:** 63320200, 63320219

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
MAGNETI-MARELLI	12V	70A	5	64.5mm	A020009238
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: FORD COURIER 1.8L DIESEL, ESCORT 1.6i/1.8i 16V, FIESTA 1.8L DIESEL				**Replacing:** 63321244, 96FF10300DC

Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
MAGNETI-MARELLI	12V	85A	1	83mm	A020009240
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: CATERPILLAR - EARTHMOVING . MANITOU - FORKLIFTS . PERKINS - EARTHMOVING				**Replacing:** TPN758, 12041

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Manuf/Sys: **MAGNETI-MARELLI**

Volts	Amps	Grooves	Mounting
12V	90A	4	83.1mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). FOR VEHICLES WITH AIR CONDITIONING

Vehicle Apps: - ENGINE: 176B9 , 182B2 . FIAT BRAVA 1.2L 16V, MAREA 1.2L 16V, PUNTO 1.2L

AOPEC : A022409205

Replacing: 63321715, 46516740

Manuf/Sys: **MAGNETI-MARELLI**

Volts	Amps	Grooves	Mounting
12V	100A	7	68mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). DOUBLE DOUBLE MOUNTING BRACKETS - HAS NO RK2 PLUG FITTING, TAKES EYE TERMINALS

Vehicle Apps: LAND ROVER DISCOVERY

AOPEC: A020009226, A022409201

Replacing: 63321243, AMR3107, AMR3107E

Manuf/Sys: **MAGNETI-MARELLI**

Volts	Amps	Grooves	Mounting
12V	100A	7	83mm

Desc/Notes: A127I. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P W D+ B+.

Vehicle Apps: - ENGINE: 12L , 14L , 256T . LAND ROVER DEFENDER 2.5L DIESEL TURBO, DISCOVERY 2.0L DIESEL/2.5L TDi/200 TDi/300 TDi, RANGE ROVER 2.5L DIESEL

AOPEC: A028909211B

Replacing: 63321358, AMR4248

Manuf/Sys: **MAGNETI-MARELLI**

Volts	Amps	Grooves	Mounting
12V	120A	None	83mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: CATERPILLAR 420D. JCB 411, 530, 580

AOPEC: A022409202B

Replacing: 63377464, 3469825

Manuf/Sys: **MAGNETI-MARELLI**

Volts	Amps	Grooves	Mounting
12V	80A	6	70mm

Desc/Notes: A115i. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P FR-SIG-A.

Vehicle Apps: - ENGINE: V-TEC . FORD FOCUS 1.6L/2.0L

AOPEC: A020009213B

Replacing: 63321678, 98AB10300DG

Manuf/Sys: **MANDO**

Volts	Amps	Grooves	Mounting
12V	60A	1	80mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH PUMP

Vehicle Apps: KIA K2700

AOPEC: A020009224, A028909209B

Replacing: AD165432, OK65A18300A, 021219012, 373004Z500

Complete Alternators

Manuf/Sys: MANDO	Volts	Amps	Grooves	Mounting	AOPEC :
	12V	60A	4	48.4mm	A022509225, A025409202R
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P S-L.				
	Vehicle Apps: HYUNDAI ATOS 1.0L, GETZ 1.1L. KIA PICANTO 1.1L				**Replacing:** 3730002550, AA000A55601, AB160108, 37300-02550

Manuf/Sys: MANDO	Volts	Amps	Grooves	Mounting	AOPEC :
	12V	65A	1	65mm	A026009200
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-IG.				
	Vehicle Apps: CHEVROLET SPARK. DAEWOO KALOS 1.2L, MATIZ 0.8 L/0.8i/1.0L/1.0i				**Replacing:** AB165104, 96314258

Manuf/Sys: MANDO	Volts	Amps	Grooves	Mounting	AOPEC :
	12V	65A	2	54mm	A028909208
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 2P S-L. WITH PUMP				
	Vehicle Apps: HYUNDAI 2.6L DIESEL				**Replacing:** 3730042620, AD165454, 37300-42620

Manuf/Sys: MANDO	Volts	Amps	Grooves	Mounting	AOPEC :
	12V	75A	1	80mm	A021609202
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). WITH PUMP				
	Vehicle Apps: KIA 2700 DIESEL, PREGIO 2.7L DIESEL				**Replacing:** AF175353, OK72B18300

Manuf/Sys: MANDO	Volts	Amps	Grooves	Mounting	AOPEC :
	12V	75A	2	55mm	A020003600
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). WITH PUMP				
	Vehicle Apps: HYUNDAI H100 2.6L DIESEL. MITSUBISHI PAJERO 2 5L TD				**Replacing:** TA000A64201, 3730042711, 37300-42711

Manuf/Sys: MANDO	Volts	Amps	Grooves	Mounting	AOPEC :
	12V	75A	4	55mm	A020009211
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN.				
	Vehicle Apps: HYUNDAI ACCENT 1.5L, SCOUPE 1.5L				**Replacing:** 3730022020, 3730022011, AB175019, AB175054, 203303A

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Manuf/Sys: **MANDO**

Volts	Amps	Grooves	Mounting
12V	75A	4	78mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P S-L.

Vehicle Apps: - ENGINE: J1 , J2 . HYUNDAI ELANTRA 1.6L/1.8L, SONATA 2.0L. MITSUBISHI COLT GALANT 2.0L

AOPEC : A020009229B

Replacing: 3730033013, 3730033010, A3T03392ZC, A3T03391, A3T03392

Manuf/Sys: **MANDO**

Volts	Amps	Grooves	Mounting
12V	90A	1	58.3mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P S-L.

Vehicle Apps: BOBCAT SKID STEER

AOPEC : A028909254B

Replacing: TA000A48401, TA000A48402, 6675292, 6678205

Manuf/Sys: **MANDO**

Volts	Amps	Grooves	Mounting
12V	90A	4	55mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN.

Vehicle Apps: - ENGINE: J2 , J3 . HYUNDAI ACCENT 1.5L, ELANTRA 1.6 L/1.8L/2.0L, GETZ, TIBURON 1.8L/2.0L. PROTON 1.6L

AOPEC : A025409201

Replacing: 3730022200, AB190058, 37300-22200

Manuf/Sys: **MANDO**

Volts	Amps	Grooves	Mounting
12V	90A	4	78.5mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-S.

Vehicle Apps: - ENGINE: J1 , J2 . HYUNDAI ELANTRA 1.6L/1.8L, SONATA 2.0L/2.0i/2.4i/3.0L/3.0i. MITSUBISHI COLT GALANT 1.8 i/GALANT 2.0L, LANCER 1.8i

AOPEC : A020009233

Replacing: 3730033103, 3730033101, 3730033100, AB190025, 37300-33103

Manuf/Sys: **MANDO**

Volts	Amps	Grooves	Mounting
12V	120A	6	28.5mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: 6GCU . HYUNDAI OPIRUS 3.5L, TERRACAN 3.5L, XG300 3.0L, XG350 3.5L

AOPEC : A025409208

Replacing: AB112112, 3730039010, 37300-39010

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	50A	1	21mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P R-L.

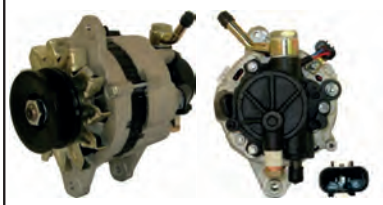
Vehicle Apps: CATERPILLAR - EARTHMOVING . LANDINI - AGRICULTURAL . MITSUBISHI - FORKLIFTS

AOPEC : A022509223

Replacing: A7T02071C, 31A6800402

Complete Alternators

Manuf/Sys: **MITSUBISHI**



Volts	Amps	Grooves	Mounting
12V	50A	1	55mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 2P R-L. WITH PUMP

Vehicle Apps: - ENGINE: 4D55 . HYUNDAI 2 5L DIESEL, 2.6L DIESEL. MITSUBISHI COLT 2.5L/2.5L DIESEL, PAJERO 2 3L DIESEL/2.5L DIESEL

AOPEC : A022509201R

Replacing: A5T20484, MD013740, LMD013740

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	50A	1	81mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P R-L.

Vehicle Apps: CLARK - FORKLIFTS . LISTER-PETTER - INDUSTRIAL . NISSAN - FORKLIFTS . YALE - FORKLIFTS

AOPEC : A020009256

Replacing: A7TA0477A, 32A6810201

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	55A	1	79.7mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH PUMP

Vehicle Apps: - ENGINE: 4DR5 . MITSUBISHI CANTER 2.7L TD/2.8L TD

AOPEC : A022509212

Replacing: A2T12771, A2T12978, A2T13278, A5T22583

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	55A	4	67mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3-PIN.

Vehicle Apps: SUZUKI SIDEKICK 1.6L, SWIFT 1.3L, VITARA 1.3L

AOPEC : A0210409209

Replacing: A1T03191, A1T03191ZC, 3140060A20, 96058486, 96069102

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	65A	2	55mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-S.

Vehicle Apps: MITSUBISHI COLT 3.0L, PAJERO 3.0L

AOPEC : A020009267

Replacing: A3T09799A, ME200697

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	70A	2	66mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN.

Vehicle Apps: FORD RANGER 2.5L DIESEL. MAZDA 626, DRIFTER 2.5L DIESEL

AOPEC : A020003605, A021609201, T021609201B

Replacing: A2TA6099, A2TA6924

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Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	70A	6	74mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3-PIN.

Vehicle Apps: FORD FIESTA 1.6L/1.6L 16V, FOCUS 1.4L 16V/1.6L/2.0L

AOPEC: A022509220

Replacing: A5TA7692, A005TA7692, 2S6T10300CB

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	80A	4	66mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P P-D. ONLY BOTTOM FRONT HOLE THREADED - 2-PIN PLUG RECESSED INTO THE SIDE OF THE REAR BRACKET

Vehicle Apps: - ENGINE: FP , FS , ZM . MAZDA ASTINA

AOPEC: A022509207R

Replacing: A2TB0191, A2TB0191A, A2TB0191B, FP3418300, FP3418300A

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	80A	4	67mm

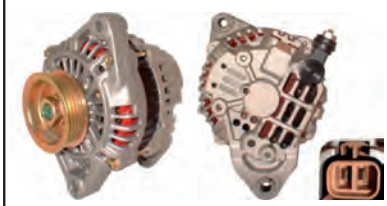
Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-S.

Vehicle Apps: - ENGINE: FE . FORD TELSTAR 2.0L. MAZDA 626 2.0L, MX6 2.5L

AOPEC: A020403606R

Replacing: A2T33191, FS0518300, FS6418300, GL445

Manuf/Sys: **MITSUBISHI**



Volts	Amps	Grooves	Mounting
12V	80A	5	81.3mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN.

Vehicle Apps: NISSAN HARDBODY 2.0L

AOPEC: A022509210

Replacing: LR180761, 23100VH300, 23100-VH300

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	80A	6	80mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-S.

Vehicle Apps: - ENGINE: QG15 , QG18 . NISSAN ALMERA 1.6L/1.8L, PRIMERA 1.6L/1.8L, SENTRA

AOPEC: A020009209B

Replacing: A2TB3191A, A2TB3191, 231004M510

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	90A	2	54.3mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-S.

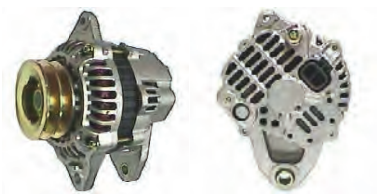
Vehicle Apps: - ENGINE: 4D56 . MITSUBISHI L300 2.5L DIESEL, PAJERO 2.5L

AOPEC: A022509206

Replacing: A3T07399, MD167060

Complete Alternators

Manuf/Sys: **MITSUBISHI**



Volts	Amps	Grooves	Mounting
12V	90A	2	55mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN.

Vehicle Apps: MITSUBISHI COLT 2.8L DIESEL, PAJERO 2.8L DIESEL

AOPEC: A022503621

Replacing: A3TA3098A, ME202755

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	90A	2	81mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN.

Vehicle Apps: - ENGINE: YD25D . NISSAN HARDBODY 2.5L DIESEL, NAVARA 2.5L DIESEL

AOPEC: A021909208B

Replacing: A3TB5099, 23100VK010

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	90A	5	55mm

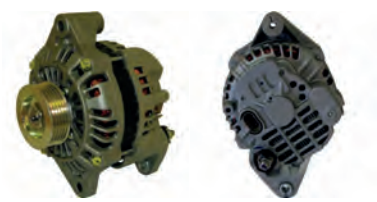
Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P S-L.

Vehicle Apps: MITSUBISHI PAJERO 3.0L

AOPEC: A022509200

Replacing: A3T08293, A003T08293, MD168989

Manuf/Sys: **MITSUBISHI**



Volts	Amps	Grooves	Mounting
12V	90A	5	81.6mm

Desc/Notes: A128. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P IC-W-WL.

Vehicle Apps: TATA INDICA

AOPEC: A012309202

Replacing: 26021338

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	90A	6	102mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P P-D.

Vehicle Apps: MAZDA 6 2.3L/3.0L

AOPEC: A0210409202

Replacing: A3TG0081, LF1818300

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	90A	6	52.2mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P P-D.

Vehicle Apps: MAZDA 6 1.8L/2.0L/2.3L

AOPEC: A022509218

Replacing: A3TG0091, LB1318300

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Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	100A	5	54mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-S.

Vehicle Apps: MITSUBISHI PAJERO 3.0L V6/3 5L V6

AOPEC: A020009205

Replacing: A3TA1191A, MD350609

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
12V	110A	5	61.7mm x2

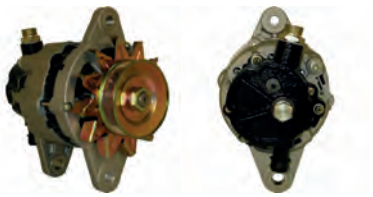
Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN.

Vehicle Apps: NISSAN MICRA 1.5L DCi, QASHQAI 1.5L DCi. RENAULT CLIO 1.5L DCi, KANGOO 1 5L DCi, MEGANE 1 5L DCi/1.6L 16V, SANDERO 1.5L DCi

AOPEC: A0210409203

Replacing: A2TB6481, 2310000QA1, 7711134728

Manuf/Sys: **MITSUBISHI**



Volts	Amps	Grooves	Mounting
24V	25A	1	81mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 2-PIN.

Vehicle Apps: - ENGINE: 4D30 . MITSUBISHI CANTER 3.3L DIESEL/DIESEL

AOPEC: A022509216

Replacing: ME017509, A2T70571, A2T61471, ME017507, A2T61871

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
24V	25A	1	81mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: MITSUBISHI CANTER

AOPEC: A022515601

Replacing: A2T71583, ME017550

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
24V	35A	2	81mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P R-L.

Vehicle Apps: BELL - EARTHMOVING . HITACHI - EARTHMOVING . MITSUBISHI CANTER

AOPEC: A022509204B

Replacing: A3TN5387, ME049281

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
24V	35A	2	82mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P S-L. TAKES PUMP

Vehicle Apps: - ENGINE: FD46 . NISSAN UD-SERIES, UD35, UD40

AOPEC: A021209203

Replacing: A3TN5082, 231000T060, A003TN5082

Complete Alternators

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
24V	50A	1	74mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: HITACHI EX670, EX850. MITSUBISHI - EARTHMOVING

AOPEC: A021909203

Replacing: A4TU5485, 1812005902

Manuf/Sys: **MITSUBISHI**

Volts	Amps	Grooves	Mounting
24V	50A	3	74mm

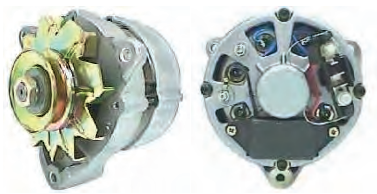
Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: HITACHI - EARTHMOVING . MITSUBISHI - EARTHMOVING

AOPEC: A022509214

Replacing: A4TU5485, 1812005902

Manuf/Sys: **MOTOROLA**



Volts	Amps	Grooves	Mounting
12V	60A	1	56mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: MERCEDES-BENZ 200, 220, 230.4, 240D, 280SE, 350SE

AOPEC: A022602681R

Replacing: A00002, 2M02I, A00-002

Manuf/Sys: **MOTOROLA**

Volts	Amps	Grooves	Mounting
12V	65A	None	27mm

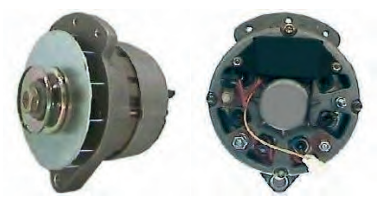
Desc/Notes: 8EK;8MR. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: THERMO KING - INDUSTRIAL

AOPEC: A022303629B

Replacing: 8EK2010NA, 110400, 8MR2185L, 2D72787G01, 447156

Manuf/Sys: **MOTOROLA**



Volts	Amps	Grooves	Mounting
24V	60A	1	27mm

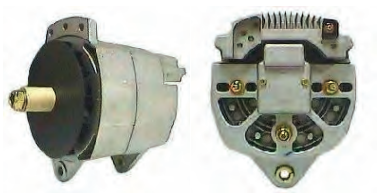
Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: UNIVERSAL - 24V

AOPEC: A022609201

Replacing: A00160, HA6024I, A00-160

Manuf/Sys: **MOTOROLA**



Volts	Amps	Grooves	Mounting
24V	175A	None	102mm

Desc/Notes: 8SC;SC175. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). UNIVERSAL FITTING - NO PLUG FITTINGS - BRUSHES ARE SEALED FROM DUST - FOR HIGH OUTPUT REQUIREMNTS AT LOW RPM''S - EMERGENCY VEHICLES, LUXURY

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . KOMATSU - EARTHMOVING . VOLVO - TRUCK/BUS

AOPEC: A022303625B

Replacing: 8SC3009ZA, SC175, 110298, 110258, 8SC3009Z

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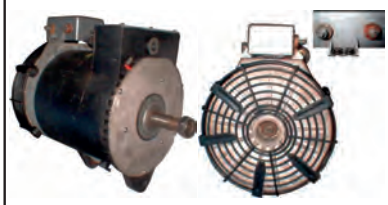
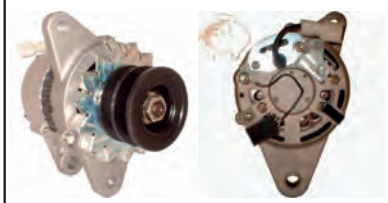
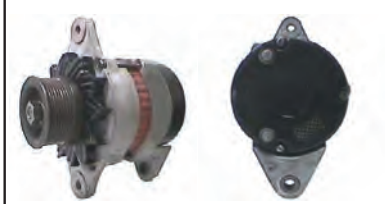
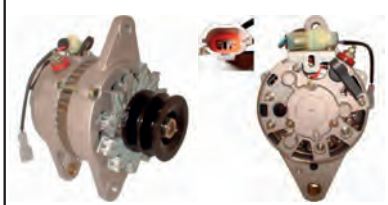
Manuf/Sys:	Volts	Amps	Grooves	Mounting	AOPEC:
NIEHOFF	24V	240A	None	101.3mm	A024103601R
	**Desc/Notes:** C600-SERIES. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). J180 MOUNT - BRUSHLESS				
	Vehicle Apps: UNIVERSAL 24V INDUSTRIAL/RAIL				**Replacing:** C612
Manuf/Sys:	**Volts**	**Amps**	**Grooves**	**Mounting**	**AOPEC:**
NIKKO	24V	25A	9	70.7mm	A022903605
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). PULLEY WILL DIFFER DEPENDING ON THE APPLICATION				
	Vehicle Apps: - ENGINE: 4D105 , 4D95 , 6D105 , 6D108 , 6D95 . KOMATSU - EARTHMOVING				**Replacing:** 0330005860, 6008216120
Manuf/Sys:	**Volts**	**Amps**	**Grooves**	**Mounting**	**AOPEC:**
NIKKO	24V	30A	2	71.1mm	A021909800
	**Desc/Notes:** IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: HITACHI - EARTHMOVING . ISUZU - TRUCK/BUS				**Replacing:** 0330006550, 0330006551, 0330006552, 1812004400, 1812004401
Manuf/Sys:	**Volts**	**Amps**	**Grooves**	**Mounting**	**AOPEC:**
NIKKO	24V	35A	2 (Normally)	102.7mm	A0210409206
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: - ENGINE: 6D125 . KOMATSU - EARTHMOVING				**Replacing:** 0350000390, 0350000391, 0350000392, 6008253120
Manuf/Sys:	**Volts**	**Amps**	**Grooves**	**Mounting**	**AOPEC:**
NIKKO	24V	35A	8	104mm	A022903624
	**Desc/Notes:** IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: - ENGINE: SA6D108 . KOMATSU - EARTHMOVING				**Replacing:** 0350000462, 6008613111
Manuf/Sys:	**Volts**	**Amps**	**Grooves**	**Mounting**	**AOPEC:**
NIKKO	24V	40A	2	70mm	A022909201B
	**Desc/Notes:** IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: - ENGINE: 6BG1 , 6HE1 . HINO - TRUCK/BUS . ISUZU CXZ, FRR, FSR, FTR, SKW				**Replacing:** 0350004000, 1812004164

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Complete Alternators

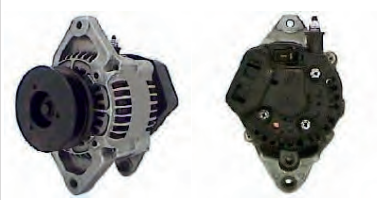
Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	30A;35A	1	67mm	A022809227
	Desc/Notes: ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN). Pins: 3P E-F-N. OLD SMALL TYPE				
	Vehicle Apps: - ENGINE: 12R . TOYOTA 1600, COROLLA, HIACE 1.6L, HILUX 1.6L				**Replacing:** 2702031031, 0210001084, 2702031030, 2702031033, 2702031032

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	35A	1	24mm	A022803603
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P S-IG-L.				
	Vehicle Apps: BOBCAT - EARTHMOVING . KUBOTA - INDUSTRIAL . TOYOTA 6-SERIES FORKLIFTS				**Replacing:** 1002114540, 2706078003

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	40A	1	67mm	A022809253
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3-PIN.				
	Vehicle Apps: TOYOTA 6-SERIES FORKLIFTS				**Replacing:** 270607830571, 2706078305, 27060-78305-71, 27060-78305

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	45A	1	24mm	A020003602, A020003602B, T022803601R
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: T-Conn.				
	Vehicle Apps: BOBCAT - EARTHMOVING . DAIHATSU CUORE. KOMATSU - EARTHMOVING . MITSUBISHI - INDUSTRIAL . TOYOTA - FORKLIFTS				**Replacing:** 1002111660, 1002111610, 1002111611

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	50A	1	58mm	A022809202, A022809202B
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3-PIN.				
	Vehicle Apps: TOYOTA 7-SERIES FORKLIFTS				**Replacing:** 270607870071, 270607820271, 1022115190, 1012113730, 27060-78700

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	50A	1	67mm	A022809241
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). T-TYPE 2-PIN REGULATOR CONNECTION				
	Vehicle Apps: TOYOTA - FORKLIFTS				**Replacing:** 2706078301, 1002114003

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Manuf/Sys: NIPPON DENSO

Volts	Amps	Grooves	Mounting
12V	50A;55A	2	98mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 3P L-S-IG. GREEN PLUG - WITH VACUUM PUMP

Vehicle Apps: - ENGINE: 2L . TOYOTA HILUX 2.4L DIESEL

AOPEC: A022803608

Replacing: 2704054060, 2702054190, 1002130290, 1210001160, 1210001163

Manuf/Sys: NIPPON DENSO

Volts	Amps	Grooves	Mounting
12V	55A	1	75mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P P-IG-L.

Vehicle Apps: CATERPILLAR - EARTHMOVING

AOPEC: A022809235, A022809239

Replacing: 1012112770, 1012112780, 1449954, 1449952

Manuf/Sys: NIPPON DENSO

Volts	Amps	Grooves	Mounting
12V	55A	2	58mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3-PIN.

Vehicle Apps: CATERPILLAR 416B, 416C, 426B, 426C, 436B, 436C, 906, D4C

AOPEC: A022803616, A022809236B

Replacing: 1012112310, 1012112240, 1052811, 1052812

Manuf/Sys: NIPPON DENSO

Volts	Amps	Grooves	Mounting
12V	70A	2	70mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P S-IG-L. WITH VACUUM PUMP MOUNTED ON THE PULLEY END OF ALTERNATOR

Vehicle Apps: - ENGINE: 2L . TOYOTA HILUX 2.4L DIESEL/2 8L DIESEL

AOPEC: A023403630

Replacing: 2704054210, 1002115090, 1002130941, 1002131130, 27040-54210

Manuf/Sys: NIPPON DENSO

Volts	Amps	Grooves	Mounting
12V	70A	5	44mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P S-IG-L.

Vehicle Apps: - ENGINE: 4AFE , 7AFE . TOYOTA CONQUEST 160i/180i, COROLLA 160i/180i

AOPEC: A0210409204

Replacing: 2706015080, 1012110060, 270601508084

Manuf/Sys: NIPPON DENSO

Volts	Amps	Grooves	Mounting
12V	70A	5	58mm

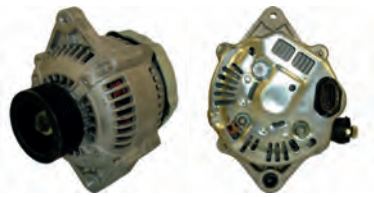
Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P S-IG-L.

Vehicle Apps: - ENGINE: 1RZ , 3RZ . TOYOTA HILUX 2.0L/2.7i

AOPEC: A022809201, A023409205

Replacing: 2706075150, 1022115050, 27060-75150

Complete Alternators

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	70A	6	57.3mm	A020009275
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P S-IG-L.				
	Vehicle Apps: TOYOTA CAMRY 200/220				**Replacing:** 2706062011, 2706062012, 1002113320, 1002113321, 1002117460

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	75A	7	44mm	A022803611
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: - ENGINE: 1TRFE , 2TRFE . TOYOTA FORTUNER 2.7L VVTi, HILUX 2.7L VVTi, QUANTUM 2.7L VVTi				**Replacing:** 27060-0C020, 1042109000, 270600C020

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	80A	6	41mm	A022809250
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P S-IG-DF-L.				
	Vehicle Apps: - ENGINE: 1ZZFE , 3ZZFE , 4ZZFE . TOYOTA AVENSIS 1.6i VVTi/1.8i VVTi/2.0i VVTi, COROLLA 1.4i VVTi/1.6i VVTi, RAV4 2.0L VVTi				**Replacing:** 1022111480, 270600D020, 270600D030, 2706022010

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	80A	6	75mm	A022409203
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P LI-RC-AS.				
	Vehicle Apps: FORD FIESTA 1.6L 16V, FOCUS 1.4L 16V/1.6L/2.0L				**Replacing:** 1002118040, 63341679, 98AB10300GK, 98AB10300GF, 98AB10300GE

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	85A	7	58mm	A020409208A
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P IG-S-L-M.				
	Vehicle Apps: - ENGINE: 1KD , 2KD . TOYOTA FORTUNER 3.0L DIESEL, HIACE 2.5L DIESEL, HILUX 2.5L DIESEL/3.0L DIESEL, LAND CRUISER 3.0L DIESEL, QUANTUM 2.5L DIESEL				**Replacing:** 27060-30040, 2706030040

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	90A	6	51.8mm	A020009271, A022809243
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: TOYOTA AURIS 1.6L VVTi				**Replacing:** 270600T010

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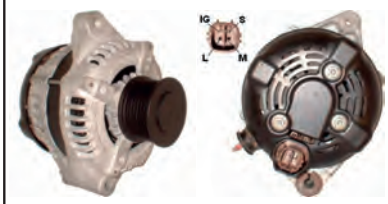
Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	100A	7	26.4mm	A0200092010
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P L-IG-FR-C.				
	Vehicle Apps: HONDA ACCORD 2.0L/2.4L, CRV 2.4i				**Replacing:** 1042103291, 1042103292

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	100A	7	58.6mm	A022809231
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P IG-S-L-M.				
	Vehicle Apps: - ENGINE: 2KD . TOYOTA LAND CRUISER 2.5L DIESEL, QUANTUM 2.5L DIESEL				**Replacing:** 1042104460, 2706030080

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	105A	6	60.5mm	A022809244B
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: OPEL ASTRA 1.9L CDTi, ZAFIRA 1 9L CDTi				**Replacing:** 1022118640

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	120A	2	58mm	A020009215
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: - ENGINE: 1KZ . TOYOTA HILUX 3.0L, LAND CRUISER 3.0L				**Replacing:** 2706067070, 1012110970

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	120A	6	46.9mm	A022809207B
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: FORD FOCUS 1.8L/2.0L. VOLVO V50 1.8L				**Replacing:** 1042103762, 3M5T10300VC, 30667071

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	120A	7	70mm	A022809229B
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: LAND ROVER DEFENDER 2.5L, DISCOVERY 2.5L				**Replacing:** 1002132530, ERR6999

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Complete Alternators

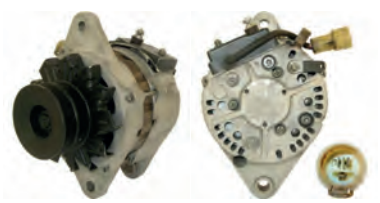
Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	130A	6	61.1mm	A022803617
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: OPEL ASTRA 1.9L CDTi, VECTRA 1.9L CDTi, ZAFIRA 1.9L CDTi				**Replacing:** 1022118660, 1022118661, 13153236, 13117236

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	130A	7	36mm	A022809248
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 4P IG-S-L-M.				
	Vehicle Apps: TOYOTA RAV4 3.5L				**Replacing:** 2706031100, 2706031101, 2706031102

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	130A	7	43.3mm	A022803615
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: TOYOTA QUANTUM 2.7L VVTi				**Replacing:** 1042104281, 2706075350

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	150A	8	24mm	A020003606
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 3P LI-RC-BVS.				
	Vehicle Apps: LAND ROVER DISCOVERY 2.7L TDV6/3.0L TD, RANGE ROVER SPORT 2.7L TDVM				**Replacing:** 1042103710, 1042103711, YLE500200, YLE500400

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	24V	20A	1	68mm	A022803605
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: TOYOTA 5-SERIES FORKLIFTS				**Replacing:** 1002114100, 1002114101, 1002114103, 1002114104, 270607830071

Manuf/Sys: NIPPON DENSO	Volts	Amps	Grooves	Mounting	AOPEC:
	24V	40A	2	72mm	A021909201
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: ISUZU FVR, FVR900				**Replacing:** 8943991571

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Manuf/Sys: NIPPON DENSO

Volts	Amps	Grooves	Mounting
24V	40A	2	85.6mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). REPLACES SAWAFUJI 02011022974

Vehicle Apps: NISSAN - FORKLIFTS

AOPEC: A022809233

Replacing: 23100Z5672

Manuf/Sys: NIPPON DENSO

Volts	Amps	Grooves	Mounting
24V	50A	2	58mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: J05ED . CATERPILLAR 914G. TOYOTA DYNA

AOPEC: A022809206, A022809206B

Replacing: 270402220B, 1022110430

Manuf/Sys: NIPPON DENSO

Volts	Amps	Grooves	Mounting
24V	95A	1	101.2mm

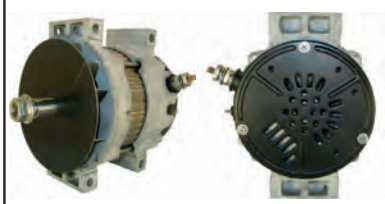
Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR D10R

AOPEC: A022809246, A022809246B, A024703618R

Replacing: 1012118340, 1978820

Manuf/Sys: NIPPON DENSO



Volts	Amps	Grooves	Mounting
24V	95A	None	102mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING . PERKINS - AGRICULTURAL

AOPEC: A020009269

Replacing: 1012118400, 2871A703, 2267683

Manuf/Sys: POONG SUNG

Volts	Amps	Grooves	Mounting
12V	130A	6	56.4mm

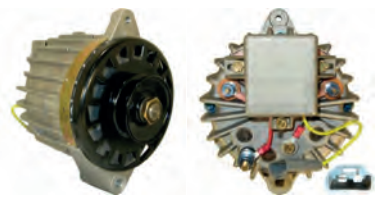
Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN.

Vehicle Apps: HYUNDAI SANTA FE 2.7L. KIA OPTIMA 2.7L

AOPEC: A025409206

Replacing: 021319271, 373003E100

Manuf/Sys: PRESTOLITE



Volts	Amps	Grooves	Mounting
12V	65A	1	51mm

Desc/Notes: 8TA. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 2" SPOOL MOUNT - SELF EXCITE

Vehicle Apps: CLARK - AGRICULTURAL . JOHN DEERE - AGRICULTURAL . MERCEDES-BENZ - TRUCK/BUS

AOPEC: A022303626

Replacing: 8TA2031G, 110475

Complete Alternators

Manuf/Sys: **PRESTOLITE**

Volts	Amps	Grooves	Mounting
12V	130A	None	102mm

Desc/Notes: 8HLA. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: INTERNATIONAL - TRUCK/BUS . MACK - TRUCK/BUS

AOPEC: A022303633B

Replacing: 8LHA2071V, 110555I

Manuf/Sys: **PRESTOLITE**

Volts	Amps	Grooves	Mounting
12V	160A	None	101mm

Desc/Notes: BLD/P. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CUMMINS - TRUCK/BUS . INTERNATIONAL - TRUCK/BUS . MACK - TRUCK/BUS . VOLVO - TRUCK/BUS

AOPEC: A022303630R

Replacing: BLD2308, 110804

Manuf/Sys: **PRESTOLITE**

Volts	Amps	Grooves	Mounting
12V	270A	None	101mm

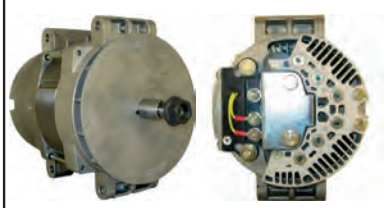
Desc/Notes: 4800-4900. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). SELF EXCITE 270 AMP - REPLACES A0014864JB - CAN OPERATE FROM: -40C TO +110C

Vehicle Apps: INTERNATIONAL - TRUCK/BUS . MACK - TRUCK/BUS . VOLVO - TRUCK/BUS

AOPEC: A022303632

Replacing: A0014867JB, 4867JB, A0014869JB

Manuf/Sys: **PRESTOLITE**



Volts	Amps	Grooves	Mounting
12V	270A	None	156mm

Desc/Notes: 4800-4900. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). PAD MOUNT - SELF EXCITE

Vehicle Apps: INTERNATIONAL - TRUCK/BUS . MACK - TRUCK/BUS . VOLVO - TRUCK/BUS

AOPEC: A022303628

Replacing: A0014949PA, 4949PA

Manuf/Sys: **PRESTOLITE**

Volts	Amps	Grooves	Mounting
24V	110A	8	105.8mm

Desc/Notes: NCB1;NCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: D13A . VOLVO FH, FM

AOPEC: A020009272

Replacing: 860804GB

Manuf/Sys: **PRESTOLITE**

Volts	Amps	Grooves	Mounting
24V	120A	8	80.7mm

Desc/Notes: AVI147. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: IVECO EUROCARGO

AOPEC: A023109204

Replacing: AVI147S3008HD

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Manuf/Sys: **PRESTOLITE**

Volts	Amps	Grooves	Mounting
24V	140A	None	102mm

Desc/Notes: 8RG. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). J180-MOUNTING

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING

AOPEC: A022303633R

Replacing: BLD3314GH, 110806, 8RG3078

Manuf/Sys: **SAWAFUJI**

Volts	Amps	Grooves	Mounting
24V	30A	1	96mm

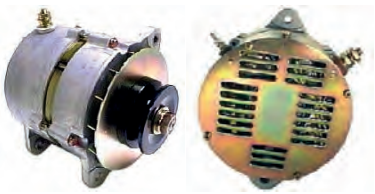
Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 3P DUMMY-WL-IG.

Vehicle Apps: - ENGINE: W04D . HINO - TRUCK/BUS . TOYOTA DYNA 5-103/6-104/6-105/7-105

AOPEC: A023409203, A023809203

Replacing: 02148510013, 270501112A

Manuf/Sys: **SAWAFUJI**



Volts	Amps	Grooves	Mounting
24V	50A	1	102mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING . KOMATSU - EARTHMOVING , HD375, HD465, HD785

AOPEC: A0238036001

Replacing: 6008219321, 6008219381, 02141520411, 02141520271

Manuf/Sys: **SAWAFUJI**

Volts	Amps	Grooves	Mounting
24V	50A	2	86mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: NISSAN UD-SERIES, UD80, UD85

AOPEC: A021909204B

Replacing: 02011520422, 23100Z5702, 23100-Z5702

Manuf/Sys: **SAWAFUJI**

Volts	Amps	Grooves	Mounting
24V	50A	2	86mm

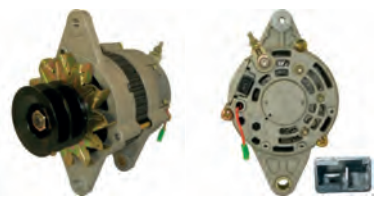
Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: - ENGINE: J07 , J08 . HINO - TRUCK/BUS , 16-237

AOPEC: A023803605, A023809204B

Replacing: 270402192A, 02011521013

Manuf/Sys: **SAWAFUJI**



Volts	Amps	Grooves	Mounting
24V	50A	2	86mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 2P W-L.

Vehicle Apps: TOYOTA HINO

AOPEC: A023809206

Replacing: 02011023012, 02011023013

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Complete Alternators

Manuf/Sys: **SAWAFUJI**

Volts	Amps	Grooves	Mounting
24V	60A	5	86mm

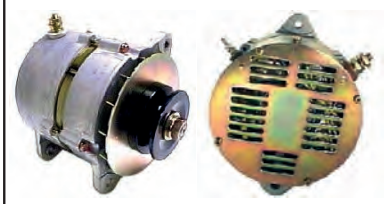
Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 4-PIN.

Vehicle Apps: NISSAN UD440

AOPEC: A020009219

Replacing: 2310000Z0A, 02011720920

Manuf/Sys: **SAWAFUJI**



Volts	Amps	Grooves	Mounting
24V	75A	1	102mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: CATERPILLAR - EARTHMOVING . KOMATSU - EARTHMOVING , HD375, HD465, HD785

AOPEC: A021105301

Replacing: 6008219550, 6008219560, 02142020321, 02142020320

Manuf/Sys: **VALEO**

Volts	Amps	Grooves	Mounting
12V	60A	None	None

Desc/Notes: A13N271 - AS90. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). Pins: 1P L. TOTALLY ROUND - 4-BOLT MOUNT

Vehicle Apps: - ENGINE: FL1011F . DEUTZ - EARTHMOVING . KHD - EARTHMOVING . MANITOU - EARTHMOVING

AOPEC: A028909210

Replacing: A13N271, 01180648KZ, 14760, 439190

Manuf/Sys: **VALEO**

Volts	Amps	Grooves	Mounting
12V	80A	6	67mm

Desc/Notes: A13VI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: CITROEN BERLINGO 1.9L DIESEL, JUMPY 1.9L TURBO DIESEL, XSARA 1.9L DIESEL. PEUGEOT 306 1.8i/1.9L DIESEL/1.9L TURBO DIESEL/2.0i, 405 1.6L

AOPEC: A0210409212

Replacing: A13VI51, 96122648, 96122643, 96122561

Manuf/Sys: **VALEO**

Volts	Amps	Grooves	Mounting
12V	90A	5	60.5mm

Desc/Notes: SG9B. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: - ENGINE: M166 . MERCEDES-BENZ A140, A160

AOPEC: A028909243B

Replacing: SG9B037, 2542412A, A0121544502

Manuf/Sys: **VALEO**

Volts	Amps	Grooves	Mounting
12V	90A	6	46mm (x2)

Desc/Notes: A13VI;SG10B. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-Dummy (B+ Bolt).

Vehicle Apps: CITROEN BERLINGO 1.4L/1.6L/1.9L, C5 1.8L/2.0L, C8 2.0 L/2.2L, XSARA 1.4L/1.6L/1.8L. FIAT ULYSSE 2.0L. PEUGEOT 206 1.4L/1. 6L, 307 2.0L, 406 2.0L/2.2L, 407 1.8L/2.2L, 607 2.0L/2.2L, 807 2.0L/2.2L, PARTNER 1.4L/1.6L/1.9L

AOPEC: A010409202B

Replacing: 2542397, 2542490, A13VI277, SG10B022, 437193

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Manuf/Sys: VALEO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	110A	None	61mm (x2)	A028909244B, A028909249
	Desc/Notes: TG11C. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2 L-DF.				
	Vehicle Apps: NISSAN MICRA 1.5L DCi. RENAULT CLIO 1.5L DCi, KANGOO 1.5L DCi, MEGANE 1.4L/1.5L DCi/1.6L 16V, SCENIC 1.4L/1.5L/1.6L				**Replacing:** TG11C062, 2310000QBA

Manuf/Sys: VALEO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	120A	5	75.6mm	A020009259
	Desc/Notes: A14VI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: - ENGINE: M47D , M57D . BMW 320d, 330d, 520d, 525d, 530d, 730d, X5 3.0L D				**Replacing:** A14VI28, 2542251B, 12312247389

Manuf/Sys: VALEO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	120A	6	56mm (X2)	A028909246
	Desc/Notes: SG12B. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: - ENGINE: M112 . MERCEDES-BENZ C240, C320, E240, E280, E320, ML320, ML350, VITO				**Replacing:** SG12B023

Manuf/Sys: VALEO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	125A	7	60.8mm (X2)	A028909253B
	Desc/Notes: SG12B. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-DF.				
	Vehicle Apps: NISSAN 1.9L DIESEL, PRIMERA 1.9L dCi. RENAULT 1.9L DIESEL, MEGANE 1.9L dCi				**Replacing:** SG12B098, SG12B052, 23100AW300, 7711135333

Manuf/Sys: VALEO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	150A	6	76mm	A028909251B
	Desc/Notes: TG15C. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 1P COM.				
	Vehicle Apps: - ENGINE: M47D20 , M47D20TU2 , M57D30TU2 . BMW 118d, 120d, 318d, 320d, 325d, 330d, 330xd, 335d				**Replacing:** TG15C093, 12317790548, 12317795620

Manuf/Sys: VALEO	Volts	Amps	Grooves	Mounting	AOPEC:
	12V	170A	6	59.4mm	A0210409210
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 1P COM.				
	Vehicle Apps: - ENGINE: M47D20TU2 , N52B25OL , N52B30A , N52B30B . BMW 130i, 318d, 320d, 325i, 325xi, 330i, 523i, 525i, 525xi, 530i, 530xi, 630i, 730i, 730li				**Replacing:** TG17C015, 2542720D, 2542720, 12317521178, 12317525376

Complete Alternators

Manuf/Sys: **VALEO**

Volts	Amps	Grooves	Mounting
12V	170A	6	75.7mm

Desc/Notes: TG17. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN.

Vehicle Apps: BMW 520d, 525d, 530d, 535d, 635d, 730d

AOPEC: A020409242

Replacing: 2542611B, TG17C010, 7789981AI03

Manuf/Sys: **VALEO**

Volts	Amps	Grooves	Mounting
12V	180A	6	76.2mm

Desc/Notes: TG17. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: BMW X5 4.4i/4.8iS

AOPEC: A028909256

Replacing: TG17C027, 2542918A, 12317537959, 12317537962, 12317540993

Manuf/Sys: **VALEO**

Volts	Amps	Grooves	Mounting
12V	180A	7	76mm

Desc/Notes: TG17. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2-PIN.

Vehicle Apps: - ENGINE: 272.979 , 642 . CHRYSLER JEEP COMMANDER 3.0L CRD/GRAND CHEROKEE 3.0L CRD. MERCEDES-BENZ CLK320CDi, E280CDi, E320CDi, GL320CDi, GL420CDi, R280CDi, SPRINTER 209 CDi/211 CDi/213 CDi/215 CDi/218 CDi/224 CDi/309 CDi/311 CDi/315 CDi/318 CDi/324 CDi/509 CDi/511 CDi/515 CDi/518 CDi, VITO 120 CDi/123 CDi

AOPEC: A028909204

Replacing: TG17C028, TG17C030, 6421540202

Manuf/Sys: **VALEO**

Volts	Amps	Grooves	Mounting
24V	40A	None	None

Desc/Notes: A13N. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: - ENGINE: FL1011F . DEUTZ - EARTHMOVING . KHD - EARTHMOVING

AOPEC: A0210409205

Replacing: A13N272, 2541708, 1180650

Manuf/Sys: **VALEO**

Volts	Amps	Grooves	Mounting
12V	70A	5	46mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-R.

Vehicle Apps: HYUNDAI i10 1 2L, i20 1.2L

AOPEC: A025409210

Replacing: 2655633, 3730003100

Manuf/Sys: **VALEO**

Volts	Amps	Grooves	Mounting
12V	90A	6	50.8mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). Pins: 2P L-FR.

Vehicle Apps: HYUNDAI i30 1.4L/1.6L. KIA SOUL 1.6L

AOPEC: A010019644

Replacing: 2655447, 373002B101

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Manuf/Sys:	Category:	AOPEC:
BOSCH	**BRACKET PULLEY END/DE** **Desc/Notes:** K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 9120690... SERIES **Vehicle Apps:** . FORD TRACTORS. HYSTER. MASSEY FERGUSON TRACTORS. NISSAN 1200, 1400, 1800, E20. TOYOTA COROLLA, HIACE, HILUX. VARIOUS UNIVERSAL APPLICATIONS	A020413201 **Replacing:** 9121691017, 9121691292
BOSCH	**BRACKET PULLEY END/DE** **Desc/Notes:** K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 9120690... SERIES **Vehicle Apps:** . FORD HUSKY. MAZDA B-SERIES. MITSUBISHI CANTER, L300	A020400506 **Replacing:** 9121691037, 9121691036
BOSCH	**BRACKET PULLEY END/DE** **Desc/Notes:** K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 0120489... SERIES **Vehicle Apps:** . ADE. MAN. MERCEDES-BENZ	A020400525 **Replacing:** 1125824432, 51261110001
DELCO	**BRACKET PULLEY END/DE** **Desc/Notes:** 27SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 200 SERIES **Vehicle Apps:** . CATERPILLAR. EARTHMOVING. EUCLID. INTERNATIONAL EAGLE, HARVESTER. KOMATSU. MACK. OSHKOSH. VOLVO	A021100504B **Replacing:** 1852038, 1985700, 9L6781
DELCO	**BRACKET PULLEY END/DE** **Desc/Notes:** 21SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CASE. CATERPILLAR. CHEVROLET. CLARK. CUMMINS. EUCLID. FIAT. FORD. INTERNATIONAL EAGLE, HARVESTER. JOHN DEERE. KOMATSU. MACK. MASSEY FERGUSON. NEW HOLLAND. VOLVO	A021100538B **Replacing:** 10467267, D3461
DELCO	**BRACKET PULLEY END/DE** **Desc/Notes:** 20SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. EUCLID. FIAT. INTERNATIONAL EAGLE, HARVESTER. KOMATSU. MACK. VOLVO	A021100509R **Replacing:** 1894483, 7N7810, 73117748
DELCO	**BRACKET PULLEY END/DE** **Desc/Notes:** 26SI;25SI;30SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. EUCLID. FORD. INTERNATIONAL EAGLE. KOMATSU. MACK. VOLVO	A021100530, A1852726 **Replacing:** 1852726, 2P5616, D8HZ10333B, GD356

Brackets

Manuf/Sys:	Category:	AOPEC:
DELCO	**BRACKET PULLEY END/DE** **Desc/Notes:** 33SI;34SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. CUMMINS. FORD. FREIGHTLINER. INTERNATIONAL HARVESTER. KENWORTH. MACK. VOLVO	A021100532B **Replacing:** 10491185, 10491186
DELCO	**BRACKET PULLEY END/DE** **Desc/Notes:** 34SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). PAD-MOUNT **Vehicle Apps:** . DETROIT DIESEL. FREIGHTLINER	A021103334B **Replacing:** 10483415
ISKRA	**BRACKET PULLEY END/DE** **Desc/Notes:** AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). CASTING NUMBER: D3573 **Vehicle Apps:** . DEUTZ. KHD	A027900501 **Replacing:** 16.908.831
NIEHOFF	**BRACKET PULLEY END/DE** **Desc/Notes:** C600-SERIES. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . INDUSTRIAL, EARTHMOVING, RAIL, TRUCK AND BUS APPLICATIONS	A024103112 **Replacing:** A5547
PRESTOLITE	**BRACKET PULLEY END/DE** **Desc/Notes:** 8SC. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. CUMMINS. INTERNATIONAL. KOMATSU. VOLVO	A022600510 **Replacing:** A015102959S
BOSCH	**BRACKET SRE/CE** **Desc/Notes:** K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 0120489... SERIES **Vehicle Apps:** . ADE. MAN. MERCEDES-BENZ. UNIMOG	A010400601 **Replacing:** 1125884484, 1125884477
BOSCH	**BRACKET SRE/CE** **Desc/Notes:** K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 9120690..., 0120489... SERIES **Vehicle Apps:** . AUDI. MERCEDES-BENZ. VOLKSWAGEN	A020400604 **Replacing:** 9121691204, 9121690001, 9121691205, 1125884393

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Manuf/Sys: **DELCO**	Category: **BRACKET SRE/CE** **Desc/Notes:** 33SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . FORD TRUCK. FREIGHTLINER. INTERNATIONAL. KENWORTH. MACK. VOLVO TRUCK	**AOPEC:** A021100533R **Replacing:** 10491175
Manuf/Sys: **DELCO**	Category: **BRACKET SRE/CE** **Desc/Notes:** 20SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. EUCLID. FIAT. INTERNATIONAL EAGLE, HARVESTER. KOMATSU. MACK. VOLVO	**AOPEC:** A021100536B **Replacing:** 1894465
Manuf/Sys: **DELCO**	Category: **BRACKET SRE/CE** **Desc/Notes:** 21SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CASE. CATERPILLAR. CHEVROLET. CLARK. CUMMINS. EUCLID. FORD. INTERNATIONAL EAGLE, HARVESTER. JOHN DEERE. KOMATSU. MACK. MASSEY FERGUSON. NEW HOLLAND	**AOPEC:** A021100537B **Replacing:** 10467269
Manuf/Sys: **DELCO**	Category: **BRACKET SRE/CE** **Desc/Notes:** 27SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 200-SERIES **Vehicle Apps:** . CATERPILLAR. EUCLID. INTERNATIONAL EAGLE, HARVESTER. KOMATSU. MACK. OSHKOSH. VOLVO	**AOPEC:** A021100603B **Replacing:** 1852630, 1988072, 9L6778
Manuf/Sys: **DELCO**	Category: **BRACKET SRE/CE** **Desc/Notes:** 30SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. CUMMINS. EUCLID. FORD. INGERSOLL RAND. INTERNATIONAL EAGLE. KOMATSU. MACK. VOLVO	**AOPEC:** A021100539R **Replacing:** 1876762
Manuf/Sys: **DELCO**	Category: **BRACKET SRE/CE** **Desc/Notes:** 34SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). PAD-MOUNT **Vehicle Apps:** . DETROIT DIESEL. FREIGHTLINER	**AOPEC:** A021101111B **Replacing:** 10483417
Manuf/Sys: **NIEHOFF**	Category: **BRACKET SRE/CE** **Desc/Notes:** C600-SERIES. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . INDUSTRIAL, EARTHMOVING, RAIL, TRUCK AND BUS APPLICATIONS	**AOPEC:** A024103118 **Replacing:** A5319

Brackets

Manuf/Sys:	Category:	AOPEC:
NIEHOFF	**BRACKET SRE/CE** **Desc/Notes:** C600-SERIES. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . INDUSTRIAL, EARTHMOVING, RAIL, TRUCK AND BUS APPLICATIONS	A024103104 **Replacing:** A5339
PRESTOLITE	**BRACKET SRE/CE** **Desc/Notes:** BLP. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH RECTIFIER **Vehicle Apps:** . CATERPILLAR. VOLVO	A025002506 **Replacing:** A011105567S
VALEO	**BRACKET SRE/CE** **Desc/Notes:** IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . VOLVO	A1696942 **Replacing:** 1696942
DELCO	**COVER** **Desc/Notes:** 30SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. CUMMINS. MACK	A021110730B **Replacing:** 1876814
DELCO	**COVER** **Desc/Notes:** 25SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. CUMMINS. FREIGHTLINER. MACK	A021110702 **Replacing:** 1969001
DELCO	**COVER** **Desc/Notes:** 25SI;26SI;30SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). DUST COVER - COMM END BEARING **Vehicle Apps:** . CATERPILLAR. CUMMINS. FREIGHTLINER. MACK	A021108725B **Replacing:** 1876813, 9N0943
DELCO	**COVER** **Desc/Notes:** 20SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. CUMMINS. FREIGHTLINER. MACK	A1894444 **Replacing:** 1894444

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Manuf/Sys:	Category:	AOPEC:
ISKRA	**COVER** **Desc/Notes:** AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). **Vehicle Apps:** . DEUTZ. KHD. LIEBHERR	A027911202 **Replacing:** 15421538
NIPPON DENSO	**COVER** **Desc/Notes:** IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. CUMMINS. KOMATSU	A024703603 **Replacing:** 0215510940
PRESTOLITE	**COVER** **Desc/Notes:** 8SC. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). **Vehicle Apps:** . CATERPILLAR. CUMMINS. KOMATSU	A027308702 **Replacing:** K185103973S

Brush Holders

Manuf/Sys: CAV	**AOPEC:** A023100802
	Replacing: 6270495
Volts	24V
Desc/ Notes	AC203R;AC203RA, IR/EF (INTERNAL REGULATOR - EXTERNAL FAN),
Veh Apps	. VOLVO BUS

Manuf/Sys: DELCO	**AOPEC:** A021000901
	Replacing: 1964682, 1965276
Volts	12V;24V
Desc/ Notes	10DN, ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN),
Veh Apps	. CASE. CATERPILLAR. CLARK. HYSTER. INTERNATIONAL HARVESTER

Manuf/Sys: DELCO	**AOPEC:** A021100906B
	Replacing: 1971521, 801466, 1852002, 8125179
Volts	12V
Desc/ Notes	10SI;12SI;27SI, IR/EF (INTERNAL REGULATOR - EXTERNAL FAN),
Veh Apps	. CASE. CATERPILLAR. CHEVROLET. CLARK. CUMMINS. HYSTER. INTERNATIONAL HARVESTER. JOHN DEERE. MASSEY FERGUSON

Manuf/Sys: DELCO	**AOPEC:** A021100908
	Replacing: 10492749
Volts	12V;24V
Desc/ Notes	22SI, IR/EF (INTERNAL REGULATOR - EXTERNAL FAN),
Veh Apps	. CUMMINS. FREIGHTLINER. INTERNATIONAL HARVESTER. VOLVO

Manuf/Sys: DELCO	**AOPEC:** A011000909, A021100904
	Replacing: 10503492, 10521657
Volts	12V;24V
Desc/ Notes	24SI, IR/IF (INTERNAL REGULATOR - INTERNAL FAN),
Veh Apps	. CUMMINS. FREIGHTLINER. INTERNATIONAL. KENWORTH. MACK. VOLVO

Manuf/Sys: DELCO	**AOPEC:** A021100931
	Replacing: 10500024
Volts	12V
Desc/ Notes	31SI, IR/EF (INTERNAL REGULATOR - EXTERNAL FAN),
Veh Apps	. CUMMINS

Manuf/Sys: HITACHI	**AOPEC:** A010000911
	Replacing: L170G4330
Volts	12V
Desc/ Notes	IR/EF (INTERNAL REGULATOR - EXTERNAL FAN),
Veh Apps	. OPEL 1.7L DIESEL

Manuf/Sys: LUCAS	**AOPEC:** A022300901
	Replacing: 54200349, 66200084
Volts	12V
Desc/ Notes	21ACR;17ACR, IR/EF (INTERNAL REGULATOR - EXTERNAL FAN),
Veh Apps	. VARIOUS APPLICATIONS WITH 17ACR / 21ACR TYPE ALTERNATORS

Manuf/Sys: MOTOROLA	**AOPEC:** A092600901
	Replacing: 31, 3204152, 3-1
Volts	12V;24V
Desc/ Notes	IR/EF (INTERNAL REGULATOR - EXTERNAL FAN),
Veh Apps	. ADE. ALFA ROMEO. AUDI. BELL. CASE. CHEVROLET. DEUTZ. FORD. HYSTER. ISUZU. JOHN DEERE. MAN. MASSEY FERGUSON. MERCEDES-BENZ. NISSAN. OPEL. PEUGEOT. SAMIL. TOYOTA.

Manuf/Sys: MOTOROLA	**AOPEC:** A022300805
	Replacing: 3-16, 3-46, 103-16, 103-46
Volts	12V
Desc/ Notes	8LHA/P;8LHA, IR/EF (INTERNAL REGULATOR - EXTERNAL FAN),
Veh Apps	. CATERPILLAR. CUMMINS. KENWORTH. MACK

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Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	61mm	40.7mm	E4,E8,KCB1,NCB1,

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124315..., 0124325..., 0124515..., 0124525..., 0124615... SERIES

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . AUDI. FORD. KARMANN. SEAT. VOLKSWAGEN

AOPEC: A020401412,A027001428

Replacing: F00M991002, F00M991122

Manuf/Sys: **BOSCH**

Photo Not Available

Grooves	ID	OD	Width/Height	Fitting Models
5	17mm	57mm	42.3mm	E6,E8,KCB2,NCB1

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . OPEL ASTRA 2 0L, 2.2L, VECTRA 2.0L, 2.2L, ZAFIRA 2.2L

AOPEC: A027001449

Replacing: F00M991139

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
5	17mm	61mm	37mm	E8,KC,NC

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0123510..., 0124325..., 0124515..., 0124525..., 0124615... SERIES

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . VOLKSWAGEN POLO

AOPEC: A027001422

Replacing: 1126601556, 1126601557, 028903119S

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	61mm	35.8mm	E8,NCB1,NCB2

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124515...; 0124525...; 0124615... SERIES - CLUTCH/FREE WHEEL

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . AUDI A4 1.6L, 1.8L, 2.0L, A6 2 0L. SEAT. VOLKSWAGEN

AOPEC: A027001434

Replacing: F00M147732, F00M991108, 2549858

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	60mm	36.3mm	H7P,KCB2,E8,KCB1

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124325..., 0124415..., 0124525..., 0121615... SERIES

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . CITROEN. FIAT. PEUGEOT. VOLVO

AOPEC: A027001436

Replacing: F00M147764, F00M991171, F00M991271, F00M991907

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
1	17mm	67mm	47.6mm	K1

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 9120690291, 9120690460, 9120690... SERIES

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . VOLKSWAGEN GOLF I, II, JETTA

AOPEC: A020401407

Replacing: 6033GC5059, 9121692238, 1126600487

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
1	17mm	73mm	17.7mm	K1

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 0120489..; 9120690... SERIES

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . ALFA ROMEO. AUDI. BELL. DEUTZ. FORD. HYSTER. MASSEY FERGUSON. MAZDA. MERCEDES-BENZ. NISSAN. TOYOTA.

AOPEC: A020401405

Replacing: 9121690031

Pulleys

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
5	17mm	55mm	39mm	KCB1,NCB1

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124325..., 0124625... SERIES

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . MERCEDES-BENZ C200, C220, SPRINTER, VITO

AOPEC: A027001417

Replacing: F00M991125, F00M991099, F00M991190, F00M991303

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	61mm	42.8mm	KC,NC

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0123320..., 0124325..., 0124415... SERIES

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . MERCEDES-BENZ SPRINTER, VARIO. RENAULT CLIO, KANGOO, MEGANE, SCENIC. UNIMOG

AOPEC: A020401410,A027001420R

Replacing: 1126601568, 6033GD5036, 6021500060

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	61mm	41mm	KC,NC

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0123310..., 0123320..., 0123510..., 0123515... SERIES

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . AUDI A3, A4. PORSCHE 911. VOLKSWAGEN GOLF IV, NEW BEETLE, SHARAN

AOPEC: A027001430

Replacing: 1126601559, 038903119, 038903165

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	61mm	35mm	KC,NC

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0123320..., 0123510... SERIES

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . MERCEDES-BENZ VITO. SSANGYONG KORANDO, MUSSO

AOPEC: A027001419

Replacing: 1126601572, 1126601549, F00M991392

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
2	17mm	98mm	39mm	N1

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . ADE. DEUTZ. INTERNATIONAL HARVESTER. LIEBHERR. MAN. MERCEDES-BENZ. SCANIA. SSANGYONG. VOLVO

AOPEC: A020401409

Replacing: 0001557318, A0001557318

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
1	17mm	73.8mm	42.5mm	N1

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . AUDI. VOLKSWAGEN

AOPEC: A022801408

Replacing: 1126600154, 1126600222, 1126600262, 1126600265, 1126600308

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
5	17mm	61mm	36mm	NCB1

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124515... SERIES

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . AUDI A4, A6. VOLKSWAGEN

AOPEC: A027001424

Replacing: F00M147722, F00M991042

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	61mm	36mm	NCB1,E8

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

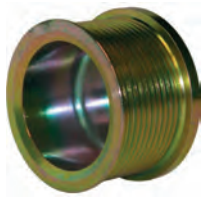
Rotation: CCW (ANTI-CLOCK)

Vehicle Apps: . VOLVO

AOPEC: A028901401

Replacing: F00M991061, F00M991156, F00M991232, F00M147760

Manuf/Sys: **BOSCH**



Grooves	ID	OD	Width/Height	Fitting Models
11	17mm	84mm	49.2mm	NCB1,NCB2

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124555... SERIES

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . MERCEDES-BENZ

AOPEC: A023101402

Replacing: F00M147743

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
9	17mm	83.8mm	42.2mm	NCB2

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124555..., 0124655... SERIES

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . BELL. DAF. MERCEDES-BENZ

AOPEC: A020001421

Replacing: F00M147741, F00M991118

Manuf/Sys: **BOSCH**

Grooves	ID	OD	Width/Height	Fitting Models
8	17mm	79mm	40mm	NL1

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 0120469... SERIES

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . MERCEDES-BENZ

AOPEC: A028901407

Replacing: 1126601102, 0011552115

Manuf/Sys: **DAEWOO**

Grooves	ID	OD	Width/Height	Fitting Models
5	22mm	101.7	30mm	

Desc/Notes:

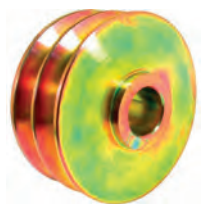
Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . DAEWOO

AOPEC: A020001402

Replacing:

Manuf/Sys: **DELCO**



Grooves	ID	OD	Width/Height	Fitting Models
2	22.3mm	89mm	39.6mm	

Desc/Notes:

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . VARIOUS EARTHMOVING AND INDUSTRIAL APPLICATIONS

AOPEC: A020001410

Replacing: 1687644CL

Manuf/Sys: **DELCO**

Grooves	ID	OD	Width/Height	Fitting Models
3	22.2mm	88.6mm	49mm	

Desc/Notes:

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . CATERPILLAR D300E

AOPEC: A020001412

Replacing:

Pulleys

Manuf/Sys: **DELCO**

Grooves	ID	OD	Width/Height	Fitting Models
2	22mm	94mm	61.5mm	21SI

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH KEYWAY; ALSO FOR BOSCH AND NIKKO UNIT APPLICATIONS WITH 22mm ROTOR ID.

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . VARIOUS EARTHMOVING AND INDUSTRIAL APPLICATIONS

AOPEC: A020001404

Replacing:

Manuf/Sys: **DELCO**

Grooves	ID	OD	Width/Height	Fitting Models
8	22mm	75mm	41.5mm	21SI

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

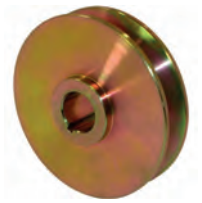
Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . VARIOUS APPLICATIONS

AOPEC: A022801405

Replacing:

Manuf/Sys: **DELCO**



Grooves	ID	OD	Width/Height	Fitting Models
1	22.3mm	105mm	33.3mm	25SI

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

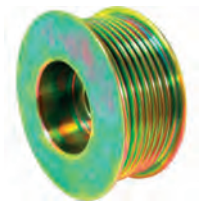
Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . CATERPILLAR. CLARK. CUMMINS. FIAT. JOHN DEERE

AOPEC: A022801401

Replacing: 4N8090, 4N8225

Manuf/Sys: **DELCO**



Grooves	ID	OD	Width/Height	Fitting Models
8	22.3mm	81.4mm	53.4mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . VARIOUS EARTHMOVING AND INDUSTRIAL APPLICATIONS

AOPEC: A020001408

Replacing:

Manuf/Sys: **FORD**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	59mm	37mm	

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

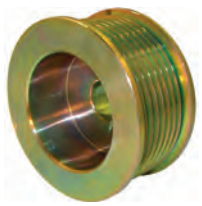
Rotation: CW (CLOCK-WISE)

Vehicle Apps: . CITROEN. FORD. MITSUBISHI. PEUGEOT

AOPEC: A028901405

Replacing:

Manuf/Sys: **FORD**



Grooves	ID	OD	Width/Height	Fitting Models
8	17mm	73.8mm	39.3mm	6G

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . FORD

AOPEC: A027001415

Replacing: F81U10A352CA

Manuf/Sys: **HITACHI**

Grooves	ID	OD	Width/Height	Fitting Models
1	17mm	82mm	31.4mm	

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . KOMATSU WB93R

AOPEC: A027001413

Replacing:

Manuf/Sys: **MITSUBISHI**

Grooves	ID	OD	Width/Height	Fitting Models
9	22mm	53mm	40mm	

Desc/Notes:

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . BELL B30

AOPEC: A020001425

Replacing:

Manuf/Sys: **NIPPON DENSO**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	62.7mm	52mm	

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). CLUTCH/FREE WHEEL - WITH DAMPER

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . CHRYSLER JEEP CHEROKEE 2.5L CRD (DIESEL), 2.8L CRD (DIESEL). DODGE

AOPEC: A028901412

Replacing: 0210401170, 0210401320, 0210401130

Manuf/Sys: **NIPPON DENSO**

Grooves	ID	OD	Width/Height	Fitting Models
1	15mm	72mm	24.2mm	

Desc/Notes: ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN).

Rotation: CW/CCW (BI-DIRECTIONAL)

Vehicle Apps: . JOHN DEERE. KOMATSU. YANMAR

AOPEC: A210412100

Replacing: 0210412100

Manuf/Sys: **NIPPON DENSO**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	58mm	41.2mm	

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . ALFA ROMEO. FIAT

AOPEC: A028901411

Replacing: 1210411140, 77363948

Manuf/Sys: **NIPPON DENSO**

Grooves	ID	OD	Width/Height	Fitting Models
7	15mm	63mm	41mm	

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . TOYOTA HIACE, HILUX, LAND CRUISER

AOPEC: A027001442

Replacing: 0210401070, 274150L030

Manuf/Sys: **NIPPON DENSO**

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	64mm	35.4mm	

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . HYUNDAI SANTA FE, SONATA, TUCSON. KIA CARENS, CERATO, SPORTAGE

AOPEC: A027001446

Replacing: 720110750

Manuf/Sys: **NIPPON DENSO**

Photo Not Available

Grooves	ID	OD	Width/Height	Fitting Models
6	17mm	54mm	40mm	

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Rotation: CW (CLOCK-WISE)

Vehicle Apps: . FORD

AOPEC: A028901409

Replacing: 1042103761

Pulleys

Manuf/Sys: **NIPPON DENSO**	Grooves	ID	OD	Width/Height	Fitting Models	**AOPEC:** A027001444
Photo Not Available	7	17mm	59mm	42mm		
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Rotation: CW (CLOCK-WISE)					**Replacing:** 274150W010, 27415W0130
	Vehicle Apps: . LEXUS. TOYOTA					

Manuf/Sys: **VALEO**	Grooves	ID	OD	Width/Height	Fitting Models	**AOPEC:** A027001426
	6	17mm	54.5mm	35mm		
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Rotation: CW (CLOCK-WISE)					**Replacing:** 2547917, 593521, 593527
	Vehicle Apps: . CITROEN. FIAT. FORD. LANCIA. MAZDA. PEUGEOT. VOLVO					

Manuf/Sys: **VALEO**	Grooves	ID	OD	Width/Height	Fitting Models	**AOPEC:** A027001440
	7	17mm	73mm	45mm		
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Rotation: CW (CLOCK-WISE)					**Replacing:** 2655703
	Vehicle Apps: . FORD. HYUNDAI. KIA					

Manuf/Sys: **VALEO**	Grooves	ID	OD	Width/Height	Fitting Models	**AOPEC:** A027001438
Photo Not Available	5	17mm	54mm	37.4mm		
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Rotation: CW (CLOCK-WISE)					**Replacing:** 2546999, 2548621, 2601992
	Vehicle Apps: . MERCEDES-BENZ. MITSUBISHI. NISSAN. OPEL. RENAULT. VOLVO					

Manuf/Sys: **VALEO**	Grooves	ID	OD	Width/Height	Fitting Models	**AOPEC:** A027001448
	6	17mm	58.8mm	43mm		
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Rotation: CW (CLOCK-WISE)					**Replacing:** 2602881, 595210
	Vehicle Apps: . NISSAN. RENAULT					

Manuf/Sys: **BOSCH**

Diodes:	6	Leng h/OD:	114mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). M6+M4+M5 BOLTS - WITH DIODE TRIO; 0120489...SERIES

Vehicle Apps: . ADE. BELL. CASE. ERF. FORD. INTERNATIONAL HARVESTER. ISUZU. IVECO. KHD. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ. MITSUBISHI. NEW HOLLAND. RENAULT. SCANIA. STEYR. TOYOTA HINO. VOLVO

AOPEC: A029102501

Replacing: 1127011098, 1127320599, 1127320546, 1127320598, 1127320991

Manuf/Sys: **BOSCH**

Diodes:	6	Leng h/OD:	114mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH DIODE TRIO - WITH W-TERMINAL

Vehicle Apps: . FORD. MAZDA

AOPEC: A020402522

Replacing: 1127320652, 1127320580, 1127011139, 81AB10304DA

Manuf/Sys: **BOSCH**

Diodes:	6	Leng h/OD:	114mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . MERCEDES-BENZ

AOPEC: A020002508

Replacing: 1127320992

Manuf/Sys: **BOSCH**

Diodes:	6	Leng h/OD:	114mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH DIODE TRIO - WITH W-TERMINAL - M8 X 30MM BATTERY POST - M5 X 20MM TRIO POST; 0120489...; 0120488...SERIES

Vehicle Apps: . AUDI. BOBCAT. CASE. CATERPILLAR. DEUTZ. INTERNATIONAL HARVESTER. KOMATSU. MAN. VOLKSWAGEN

AOPEC: A020402509,A020402519

Replacing: 1127320665, 1127320664, 1127320666, 068903359B, A187917

Manuf/Sys: **BOSCH**

Diodes:	6	Leng h/OD:	114mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH "W" TERMINAL

Vehicle Apps: . JOHN DEERE. THERMO KING

AOPEC: A020402517

Replacing: 9121067385

Manuf/Sys: **BOSCH**

Diodes:	6;8	Leng h/OD:	114mm

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH DIODE TRIO - WITHOUT W-TERMINAL; 0120400...; 0120489...SERIES

Vehicle Apps: . ALFA ROMEO. AUDI. BELL. BMW. DAF. FIAT. FORD. HYSTER. ISUZU. IVECO. KHD. MAN. MAZDA. MERCEDES-BENZ. MITSUBISHI. NISSAN. OPEL. PEUGEOT. RENAULT. TOYOTA. VOLKSWAGEN

AOPEC: A020002506, A020402507, A020402508

Replacing: 1127320326, 1127320501, 1127320624, 1127011125, 088375501

Photo Not Available

Manuf/Sys: **BOSCH**

Diodes:	8	Leng h/OD:	120mm

Desc/Notes: N1;NL1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . MERCEDES-BENZ ACTROS

AOPEC: A260002500

Replacing: 1127320753

Rectifiers

Manuf/Sys: **BOSCH**

Diodes:	6	Leng h/OD:	121mm

Desc/Notes: NCB1;NCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124555... AND 0124655... SERIES

Vehicle Apps: . BELL. MERCEDES-BENZ ACTROS, ATEGO, AXOR, CITARO, UNIMOG. SCANIA

AOPEC: A020402501

Replacing: F00M133224, 0011543616, 2TB903357A, F00M133286

Manuf/Sys: **BOSCH**

Diodes:	8	Leng h/OD:	121mm

Desc/Notes: N1;NL1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 0120469... SERIES

Vehicle Apps: . DAF. IVECO

AOPEC: A020402513

Replacing: 1127319110, 1127320750

Manuf/Sys: **BOSCH**

Diodes:	11	Leng h/OD:	124mm

Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 8-DIODES WITH 3X25A DIODE TRIO DIODES - WITH DIODE TRIO - WITH W-TERMINALS; 0120468...SERIES

Vehicle Apps: . ADE. BELL. CUMMINS. DAF. ERF. FIAT. FORD. INTERNATIONAL HARVESTER. ISUZU. IVECO. KHD. MAN. MERCEDES-BENZ. NISSAN. PERKINS. SCANIA. TOYOTA. VOLVO

AOPEC: A020402516A

Replacing: 1127320946, 1127320995, 1127320928, 0011542116

Photo Not Available

Manuf/Sys: **BOSCH**

Diodes:	12	Leng h/OD:	126mm

Desc/Notes: NC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . BMW

AOPEC: A020402503

Replacing: 1127319690, 1127320860

Manuf/Sys: **BOSCH**

Diodes:	17	Leng h/OD:	148mm

Desc/Notes: T1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH W-TERMINAL - WITH DIODE TRIO; 0120600...SERIES

Vehicle Apps: . CUMMINS. DEUTZ. IVECO. KHD. MAN. MERCEDES-BENZ. SCANIA. SONACOME

AOPEC: A024002502

Replacing: 1127320571, 1127320547, 0001545116, 0001545416, 8122274

Manuf/Sys: **BOSCH**

Diodes:	6	Leng h/OD:	90mm

Desc/Notes: K1. ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN). WITH DIODE TRIO

Vehicle Apps: . VOLKSWAGEN BEETLE 1300 1600 OLD (1.6L), KOMBI 1300 1600 OLD (1.6L)

AOPEC: A020402505

Replacing: 1127320164, 1127320162

Manuf/Sys: **BOSCH**

Diodes:	6	Leng h/OD:	90mm

Desc/Notes: G1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH DIODE TRIO 0120300...; 0120339...; 9120143... SERIES

Vehicle Apps: . CASE. DEUTZ. INTERNATIONAL HARVESTER. JOHN DEERE. KHD. LAMBORGHINI. MASSEY FERGUSON. OPEL. VOLKSWAGEN

AOPEC: A020402511

Replacing: 1127320569, 1127320316, 1127320142, 1127320317, 1127320115

Manuf/Sys: **DELCO**

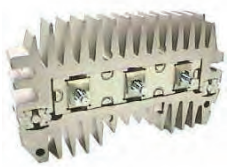
Diodes:	6	Leng h/OD:	104mm

Desc/Notes: 17SI;21SI;22SI;23SI;33SI;34SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CASE. CATERPILLAR. CLARK. CUMMINS. FREIGHTLINER. INTERNATIONAL EAGLE, HARVESTER. JOHN DEERE. KOMATSU. MACK. VOLVO

AOPEC: A021102521

Replacing: 1988976



Manuf/Sys: **DELCO**

Diodes:	6	Leng h/OD:	112mm

Desc/Notes: 27SI;29SI;30SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CATERPILLAR. CHEVROLET. CLARK. CUMMINS. FORD. HYSTER. INTERNATIONAL EAGLE, HARVESTER. JOHN DEERE. KOMATSU. MACK. VOLVO

AOPEC: A020003102, A021102504B

Replacing: 801816, 1875645, 1892914, 9L6776

Manuf/Sys: **DELCO**

Diodes:	6	Leng h/OD:	58.1mm

Desc/Notes: 21SI;22SI;23SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CASE. CATERPILLAR. CUMMINS. FIAT. FORD. FREIGHTLINER. INTERNATIONAL EAGLE, HARVESTER. JOHN DEERE. KOMATSU. MACK. MASSEY FERGUSON. NEW HOLLAND. VOLVO

AOPEC: A021102534B

Replacing: 10470609, 10501634, 10501636, D3992, D3990

Manuf/Sys: **DELCO**

Diodes:	9	Leng h/OD:	94mm

Desc/Notes: 17SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . HYSTER. INTERNATIONAL HARVESTER. JOHN DEERE

AOPEC: A021002504

Replacing: 1985801, D3985

Manuf/Sys: **DELCO**

Diodes:	6	Leng h/OD:	166.7mm

Desc/Notes: 24SI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). HP-SERIES

Vehicle Apps: . CUMMINS

AOPEC: A0211002506

Replacing: 10510456

Manuf/Sys: **DELCO**

Diodes:	6	Leng h/OD:	96.3mm

Desc/Notes: CS130D. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). CS130D - WITH DIODE TRIO - FRENCH DELCO

Vehicle Apps: . OPEL ASTRA, CORSA

AOPEC: A021002502

Replacing: 10475034

Manuf/Sys: **HITACHI**

Diodes:	6	Leng h/OD:	70mm

Desc/Notes: ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN). POST = M5 x 13MM

Vehicle Apps: . DATSUN/NISSAN 120Y/1200/1300/1400/1500/1600 LDV AND CARS. NISSAN 1-TONNER, 1500, 1600, 1800, CABALL 2-TON TRUCK, E20, SKYLINE, STANZA

AOPEC: A23232N3300

Replacing: 23230H0300, 23230U0100, L1407320, 3144100808, XL125832000

Rectifiers

Manuf/Sys: **HITACHI**

Diodes:	6	Leng h/OD:	100mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . ISUZU KB20 DIESEL, KB21 DIESEL, KB25 DIESEL, KB26 DIESEL, KB41 DIESEL, KB42 DIESEL

AOPEC: A021902501

Replacing: 5812180290, L130M1330 L14023201, 145624510, 23137J5300

Manuf/Sys: **HITACHI**

Diodes:	6	Leng h/OD:	100mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . ISUZU KB20, KB23, KB25

AOPEC: A021902503

Replacing: 5812180330, L14053201, 8942469570, 8942469571

Manuf/Sys: **HITACHI**

Diodes:	6	Leng h/OD:	103mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . NISSAN PR MERA, SENTRA

AOPEC: A021902509

Replacing: L18013202, 2323064J00

Manuf/Sys: **HITACHI**

Diodes:	6	Leng h/OD:	111mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH DIODE TRIO

Vehicle Apps: . ISUZU KB280DT, WFR50. NISSAN 2.2L DIESEL, FORKLIFTS, PICK-UPS

AOPEC: A021902505, A021902507

Replacing: 23232W1700, 8942377290, L15013204

Manuf/Sys: **HITACHI**

Diodes:	8	Leng h/OD:	113mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). FOR ALT.: 897170-1602/897186-5511 DIESEL, WITH PUMP

Vehicle Apps: . ISUZU

AOPEC: A0200031001

Replacing: 8971481691

Manuf/Sys: **HITACHI**

Diodes:	6	Leng h/OD:	115mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITHOUT DIODE TRIO

Vehicle Apps: . ISUZU. OPEL CORSA 1.7D

AOPEC: A020003134

Replacing: L170G23203, 6205428

Manuf/Sys: **ISKRA**

Diodes:	8	Leng h/OD:	111.2mm

Desc/Notes: AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . DEUTZ. KHD

AOPEC: A027902505

Replacing: 16902659

Manuf/Sys: **ISKRA**

Diodes:	8	Leng h/OD:	111mm

Desc/Notes: AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . DEUTZ. JOHN DEERE. KHD. MASSEY FERGUSON

AOPEC: A027902501

Replacing: 16902097

Manuf/Sys: **LEECE NEVILLE**

Diodes:	3	Leng h/OD:	131.4mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . FREIGHTLINER. INTERNATIONAL

AOPEC: A025002502

Replacing: 101411, 101441

Manuf/Sys: **LUCAS**

Diodes:	9	Leng h/OD:	48.5mm

Desc/Notes: 21ACR;17ACR. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). FOR ALL 17ACR/21ACR ALTERNATORS

Vehicle Apps: . FORD ANGLIA, CORTINA, ESCORT, TRACTORS. HYSTER. MASSEY FERGUSON. MAZDA. MINI COOPER. NISSAN 1200, 1400, 1600, 1800, E20. PERKINS. TOYOTA COROLLA, HIACE, HILUX

AOPEC: A022302503

Replacing: 83166, UBB110, 84443, 83520, 83844

Manuf/Sys: **LUCAS**

Diodes:	6	Leng h/OD:	111.4mm

Desc/Notes: 3SA23. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). INCLUDING DIODE TRIO (3 IN-LINE DIODES)

Vehicle Apps: . TATA TELCOLINE

AOPEC: A022302505

Replacing: 26948040A, 26991540

Manuf/Sys: **LUCAS**

Diodes:	6	Leng h/OD:	114mm

Desc/Notes: AS123. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). M6 POST 42MM LONG (MIDDLE) - M5 POST 30MM LONG (LEFT ON END)

Vehicle Apps: . BELL. CASE. CHEVROLET. DAF. FORD. HYSTER. ISUZU. JCB. JOHN DEERE. MASSEY FERGUSON. MAZDA. NISSAN. OPEL. PERKINS. SCANIA. TOYOTA. VOLKSWAGEN. VOLVO

AOPEC: A022302515, A022302519

Replacing: 66201570, 84499

Manuf/Sys: **MITSUBISHI**

Diodes:	6	Leng h/OD:	106mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). WITH DIODE TRIO

Vehicle Apps: . MAZDA. MITSUBISHI

AOPEC: A022502505

Replacing: A860T39070, FS1118W60

Manuf/Sys: **MITSUBISHI**

Diodes:	8	Leng h/OD:	115.7mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). WITH DIODE TRIO

Vehicle Apps: . HYUNDAI. MITSUBISHI PAJERO

AOPEC: A022502501

Replacing: A860T23070, A860T28070, MD611564, MD611768

Rectifiers

	Manuf/Sys: **MITSUBISHI**				**AOPEC :** A024802501
	Diodes:	8	Leng h/OD:	122mm	
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: . FORD TELSTAR 2.5L V6. MAZDA 626 2.5L V6, MX6 2.5L V6				**Replacing:** A860T38670, A860T40270, K80118W60, F32Z10304B
	Manuf/Sys: **MITSUBISHI**				**AOPEC :** A2J23051H00
	Diodes:	8	Leng h/OD:	122mm	
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). WITH CAPACITOR AND M8 BATTERY POST				
	Vehicle Apps: . BELL. HITACHI EXCAVATOR. ISUZU DIESEL ENGINES. MITSUBISHI CANTER				**Replacing:** A860X52570, ME701439, ME701569
	Manuf/Sys: **MITSUBISHI**				**AOPEC :** A020003132
	Diodes:	6	Leng h/OD:	96mm	
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).				
	Vehicle Apps: . HYUNDAI. MAZDA				**Replacing:** A860T27170, A860T25870, MD611778, MD611688
	Manuf/Sys: **MITSUBISHI**				**AOPEC :** A022502510
	Diodes:	6	Leng h/OD:	99mm	
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). M5 X 38MM TERMINAL POST - WITH DIODE TRIO				
	Vehicle Apps: . FORD. MAZDA. MITSUBISHI				**Replacing:** A860T08770, A860T15170, RF0318300C, 2323004D00, MD607680
	Manuf/Sys: **NIKKO**				**AOPEC :** A0-35730-0510B
	Diodes:	8	Leng h/OD:	110mm	
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: . KOMATSU D65E, PC300, PC4000				**Replacing:** 0357300510
	Manuf/Sys: **NIKKO**				**AOPEC :** A0-33730-2560
	Diodes:	6	Leng h/OD:	111.3mm	
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH RECTIFIER				
	Vehicle Apps: . KOMATSU				**Replacing:** 0337302560
	Manuf/Sys: **NIKKO**				**AOPEC :** A0-33730-1800
	Diodes:	6	Leng h/OD:	111mm	
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: . ISUZU. KOMATSU. TCM				**Replacing:** 0337301800

Manuf/Sys: **NIKKO**

Diodes:	6	Leng h/OD:	119.7mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . KOMATSU

AOPEC: A0-35730-0080

Replacing: 0357300080

Manuf/Sys: **NIKKO**

Diodes:	8	Leng h/OD:	130mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . ISUZU. TOYOTA HINO

AOPEC: A0-35730-0270

Replacing: 0357300270, 0357300300, 0357300460, 1812191070

Manuf/Sys: **NIPPON DENSO**

Diodes:	8	Leng h/OD:	100mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). USED ON ALTERNATOR WITH 118MM OUTSIDE DIAMETER STATOR

Vehicle Apps: . HONDA. KUBOTA. THERMO KING. TOYOTA CAMRY, CONQUEST, COROLLA, HIACE, HILUX, RAV4

AOPEC: A022802523

Replacing: 2735763020, 0215802160, 0215802230

Manuf/Sys: **NIPPON DENSO**

Diodes:	8	Leng h/OD:	102mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). FITS ALT: 27060-17220 | 102211-1360 - ALTERNATORS WITH 118MM STATOR OD

Vehicle Apps: . HONDA. TOYOTA CELICA, LEXUS

AOPEC: A022802525

Replacing: 0215803830, 0215804030, 2735755080, 2735762040, 31127PT0003

Manuf/Sys: **NIPPON DENSO**

Diodes:	8	Leng h/OD:	102mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). USED ON ALTERNATOR WITH 118MM OUTSIDE DIAMETER STATOR - M6 X 25MM VERTICAL TERMINAL POST

Vehicle Apps: . CHRYSLER VOYAGER. JEEP CHEROKEE, WRANGLER

AOPEC: A022802521

Replacing: 0215803640, 0215804840, 8970708080

Manuf/Sys: **NIPPON DENSO**

Diodes:	8	Leng h/OD:	138mm

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CATERPILLAR

AOPEC: A022802527

Replacing: 0215805350

Manuf/Sys: **NIPPON DENSO**

Diodes:	8	Leng h/OD:	88mm

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . BOBCAT. CATERPILLAR. CHEVROLET. DAIHATSU. ISUZU. OPEL. PERKINS. SUZUKI. TOYOTA

AOPEC: A260002502

Replacing: 0215803130, 2735772150

Rectifiers

	Manuf/Sys: **PRESTOLITE**				**AOPEC:** A022302507
	Diodes:	12	Leng h/OD:	152mm	
	Desc/Notes: SCJ;8SC. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: . CATERPILLAR. CUMMINS. KOMATSU. VOLVO				**Replacing:** A051104922S
	Manuf/Sys: **PRESTOLITE**				**AOPEC:** A023102501B
	Diodes:	6	Leng h/OD:	153.7mm	
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: . FREIGHTLINER. KENWORTH. VOLVO PENTA				**Replacing:**
	Manuf/Sys: **PRESTOLITE**				**AOPEC:** A025002505
	Diodes:	3	Leng h/OD:	89mm	
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).				
	Vehicle Apps: . CASE. CATERPILLAR. HYSTER. JOHN DEERE. MASSEY FERGUSON. NEW HOLLAND. THERMO KING				**Replacing:** 101-193
	Manuf/Sys: **VALEO**				**AOPEC:** A020002504
	Diodes:	8	Leng h/OD:	108mm	
	Desc/Notes: A13VI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). TERMINAL=25MM LONG (B+) M8 TERMINAL - WITHOUT TRIO				
	Vehicle Apps: . BMW. RENAULT. VOLVO				**Replacing:** 593174, 593204, 593306, 593329, 7701045154
	Manuf/Sys: **VALEO**				**AOPEC:** A023202501
	Diodes:	6	Leng h/OD:	114.4mm	
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 40A WITH DIODE TRIO/WITH CAPACITOR				
	Vehicle Apps: . DEUTZ. KHD. MANITOU. MASSEY FERGUSON. NIERMANN. VOLVO				**Replacing:** 103551, 139672, 873817, 11994491, 940038305

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.1V	65mm	

Desc/Notes: K1;N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 28/32MM SLIP RING; 0120468...; 0120469...; 0120488...; 0120489...; 9120144...SERIES

Vehicle Apps: . ALFA ROMEO. AUDI. BELL. BMW. DEUTZ. HONDA. ISUZU. MAZDA. MERCEDES-BENZ. OPEL. PEUGEOT. TOYOTA. VOLKSWAGEN

AOPEC: A1197-311-022

Replacing: 1197311003, 1197311007, 1197311008, 1197311009, 1197311022

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	65mm	

Desc/Notes: K1;G1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 32MM SLIP RING; 0120339...; 0120469...; 0120489...; 9120143...; 9120144...; 9120690... SERIES

Vehicle Apps: . AUDI. BELL. BMW. DEUTZ. FIAT. FORD. IVECO. MASSEY FERGUSON. MAZDA. MERCEDES-BENZ. MITSUBISHI. PERKINS. PEUGEOT. RENAULT. TOYOTA. VOLKSWAGEN

AOPEC: A02040251A, A020403103B

Replacing: 1197311090, 0192052001, 0192052005, 1197311001, 1197311000

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	55mm	3P S-IG-L

Desc/Notes: KC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). WITH RESISTOR - 14MM OD SLIP RING

Vehicle Apps: . TOYOTA CONQUEST 160i RS/RSE/SPORT, COROLLA 160i A/T 180i GSE GLE GSX

AOPEC: A020403131

Replacing: 1197311510

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	55mm	

Desc/Notes: GC;KC;NC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 14.5 V - 14MM SLIP-RING - NO RESISTOR; 0120465...; 0120485...; 0123310...; 0123315...; 0123320...; 0123510...; 0986038...SERIES

Vehicle Apps: . AUDI. BMW. FORD. IVECO. MERCEDES-BENZ. OPEL. VOLKSWAGEN

AOPEC: A020003155,A020403111B

Replacing: 1197311212, 1197311214, 1197311220, 1197311221, 1197311228

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	95mm	

Desc/Notes: ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . VOLKSWAGEN

AOPEC: A020403102

Replacing: 0190350068, 0190350069, 0190350079, 0190350084

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.2V	78.8mm	2P L-FR

Desc/Notes: E10. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124625... SERIES

Vehicle Apps: . MERCEDES-BENZ

AOPEC: A020403113

Replacing: F00M145883, F00M145483, F00M144155, F00M145266, F00M145365

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	65mm	2P L-S

Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). (S AND L) LEAD FOR FIELD/COMPUTER - AUSTRALIAN BOSCH - 28MM SLIP RING

Vehicle Apps: . THERMO KING

AOPEC: A020003157

Replacing: 9190067018

Regulators

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	78.6mm	2P L-FR

Desc/Notes: GCB2;KCB1;NCB1;NCB2;LI-E. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 14MM SLIP-RING

Vehicle Apps: . AUDI A3, S3, TT. MERCEDES-BENZ C200 KOMPRESSOR, VITO 112 CDi. VOLKSWAGEN GOLF IV 1.4L, 1.6L, 1.8L, 1.9L SDI, TDI, 2.0L, 2.3 L, JETTA, POLO, SHARAN

AOPEC: A020003104,A020003153, A020003186

Replacing: F00M145225, F00M145200, F00M145237, F00M145218, 038903803

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	78.8mm	M5 BOLT (D+)

Desc/Notes: GCB2;KCB1;KCB2;NCB1;E6;LI-E;LI-E6. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 14MM SLIP-RING

Vehicle Apps: . FIAT PALIO, SIENA, STRADA. MERCEDES-BENZ. NEW HOLLAND. OPEL ASTRA, CORSA, MERIVA, TIGRA, VECTRA, ZAFIRA

AOPEC: A020403133

Replacing: F00M145231, F00M145282, F00M145201, 93176380, 9117942

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	78.5mm	4P IG-S-L-DFM

Desc/Notes: KCB1;E4. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 14MM SLIP-RING - IG= IGNITION / S= +BATTERY SENSE / L= LIGHT / DF= FIELD SIGNAL FROM CPU

Vehicle Apps: . TOYOTA AVENSIS, CAMRY, COROLLA, FORTUNER, HIACE, HILUX, LAND CRUISER, PRADO, QUANTUM

AOPEC: A020403106

Replacing: F00M145305, F00M145236, F00M145873

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	79mm,87mm	1-PIN (M5)

Desc/Notes: KCB1;KCB2;GCB2;E4. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 14MM SLIP-RING - M5-TERMINAL = D+ (L)

Vehicle Apps: . ALFA ROMEO. FIAT. VOLKSWAGEN GOLF I 1.3L, 1.4L, 1.6L, 1.8L, JETTA I 1.3L, 1.6L, 1.8L, II 1.6L, 1.8L

AOPEC: A020003113

Replacing: F00M145220, F00M145349

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	55mm	3P IG-L-FR

Desc/Notes: KC;NC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). DISCONTINUED - REPLACED BY REG1102A - 14MM SLIP RING

Vehicle Apps: . BMW 316i, 318i, 320i, 323i, 328i, 520i, 523i, 528i, Z3

AOPEC: A020003111

Replacing: 1197311506, 12311702927

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	78.3mm	2P L-FR

Desc/Notes: KCB1;KCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . RENAULT CLIO, KANGOO, LAGUNA, LOGAN, MEGANE, SCENIC, THALIA

AOPEC: A020403129

Replacing: F00M145239, F00M145387, 7701048230

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.3V	78.3mm	2P IG-L

Desc/Notes: NCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124515... SERIES - NO TEMPERATURE COMPENSATION - SLIPRING OD=14MM

Vehicle Apps: . BMW 320i, 325i, 330i, 520i, 525i, 530i, X5, Z3

AOPEC: A020003105

Replacing: F00MA45236, F00M145245, F00M145360, F00M145251, 7501752

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Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	79mm,87mm	3P S-DFM-L

Desc/Notes: KCB1;KCB2. BR14-M2 | SLIPRING OD=14MM | WITH EXTERNAL SENSE | CIRCUIT PROTECTED AGAINST SHORTED LAMP, SHORTED FIELD, BATTERY DISCONNECT

Vehicle Apps: . FORD F250 4.2L, MONDEO 1.6i, 1.8i, 2.0i, RANGER

AOPEC: AFOOM145214

Replacing: F00M145214, F00M145348

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.3V	79.1mm	2P IG-L

Desc/Notes: NFB2. BRF14-M0 | FOR WATER COOLED ALTERNATORS

Vehicle Apps: . BMW. LAND ROVER. RANGE ROVER

AOPEC: A020403107

Replacing: F00M255200, F00M255201, F00M255202

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	79mm	2P L-DFM

Desc/Notes: KCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . OPEL ASTRA, ZAFIRA

AOPEC: A020403104A

Replacing: F00M145228, F00M145265, F00M145283, F00M145364, F00M145371

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.0V	64mm	

Desc/Notes: K1;N1;NL1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 28MM SLIP RING

Vehicle Apps: . ADE. BELL. DAF. FIAT. FORD. INTERNATIONAL HARVESTER. ISUZU. KHD. KOMATSU. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ. PERKINS. SCANIA. TOYOTA HINO. VOLVO

AOPEC: A020003151, A020403127B, A020403135

Replacing: 1197311300, 1197311301, 1197311304, 1197311314, 6033RD0002

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.8V	65mm,43mm,43mm	

Desc/Notes: T1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 28MM S-RING/A-CIRCUIT

Vehicle Apps: . CUMMINS. DEUTZ. IVECO. KHD. MAN. MERCEDES-BENZ. SCANIA. VOLVO

AOPEC: A020003124, A020403109

Replacing: 0192053025, 1197311315, 0192053003, 0192053009, 0192053012

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
24V	25.5V	54.7mm	5-PIN

Desc/Notes: KC;NC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0123525… SERIES

Vehicle Apps: . MAN E2000, F2000, L2000, M2000

AOPEC: A025103101

Replacing: 1197311554, 1197311558, 0272220217

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.0V	65mm	

Desc/Notes: T1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CATERPILLAR

AOPEC: A020403126

Replacing: 1197011000, 0192053010, 1197311318

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Regulators

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.3V	79mm,87mm	5P W-L-15-S-DFM

Desc/Notes: NCB1;NCB2. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124555... AND 0124655... SERIES

Vehicle Apps: OM541, OM542-Engine. BELL. MERCEDES-BENZ ACCELO, ACTROS, ATEGO, AXOR, CITARO. SCANIA

AOPEC: A020003116

Replacing: F00M145256, F00M145302, F00M145298, A000154240426, 000154240426

Manuf/Sys: **BOSCH**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.5V	65mm	

Desc/Notes: NL1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . MERCEDES-BENZ AXOR, CITARO

AOPEC: A026403101

Replacing: 1197311323

Manuf/Sys: **CAV**

Volts	Voltage Set	Mounting Holes	Pins
24V	27.5V	105mm	7-PIN

Desc/Notes: AC7;AC5. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). NEG-A-WL-F-HI-MED-LOW

Vehicle Apps: . ERF. LEYLAND

AOPEC: A020003146, A020703105

Replacing: 1697D520

Manuf/Sys: **CAV**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.5V	75mm x2,64mm	

Desc/Notes: AC5RS;AC172R;AC203. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . VOLVO BUS

AOPEC: A020003182

Replacing: 631731A, 546R529, 1830029

Manuf/Sys: **CAV**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.5V	75mm x2,64mm	

Desc/Notes: AC203. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . BUSES

AOPEC: A023109201

Replacing: 1861A726, CAV1861A726

Manuf/Sys: **DELCO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.8V	32mm,36.5mm	2-PIN

Desc/Notes: 15SI;10SI;27SI;17SI;12SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CASE. CATERPILLAR. CHEVROLET. CLARK. CUMMINS. HYSTER. INTERNATIONAL HARVESTER. JOHN DEERE. MASSEY FERGUSON

AOPEC: A02100310

Replacing: 1116387, 1116423, 1116380, 1116392, 3N3754

Manuf/Sys: **DELCO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.7V	67mm	

Desc/Notes: CS130D. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . OPEL ASTRA, CALIBRA, CORSA, OMEGA, VECTRA. SAAB

AOPEC: A020003176

Replacing: 19009701, 10479914, 10479947, 940038030, 1204270

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Manuf/Sys: **DELCO**

Volts	Voltage Set	Mounting Holes	Pins
12V	13.9V	32mm,36mm	2-PIN

Desc/Notes: 10SI;27SI;30SI;40SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CATERPILLAR. CUMMINS. EUCLID. FORD. FREIGHTLINER. INTERNATIONAL EAGLE, HARVESTER. KENWORTH. KOMATSU. MACK. VOLVO

AOPEC: A021103112B

Replacing: 1116389, 1116383, 1876388, 1988949, 9L6774

Manuf/Sys: **DELCO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.0V	32mm,36mm	2-PIN

Desc/Notes: 21SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CATERPILLAR. FREIGHTLINER. INTERNATIONAL HARVESTER. JOHN DEERE. KOMATSU. MASSEY FERGUSON. NEW HOLLAND. VOLVO

AOPEC: A1116433

Replacing: 35126

Manuf/Sys: **DELCO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.8V	38mm (x2),76mm (x2)	

Desc/Notes: 31SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CATERPILLAR. CUMMINS

AOPEC: A021103140

Replacing: 19020401

Manuf/Sys: **DELCO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.7V	67mm	4P P-L-I-S

Desc/Notes: CS121;CS130;CS144. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 2 5 SECOND LOAD RESPONSE TIME

Vehicle Apps: . CHEVROLET. DAEWOO ESPERO, FORKLIFT, LANOS, NEXIA

AOPEC: A021003197

Replacing: 1116411, 1116436, 1116437, 1116429

Manuf/Sys: **DELCO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.2V	40mm,81mm (TO	4P S-F-L-P

Desc/Notes: 24SI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . FREIGHTLINER. INTERNATIONAL. KENWORTH. MACK. STERLING. VOLVO

AOPEC: A021103122

Replacing: 10514474

Manuf/Sys: **DELCO**

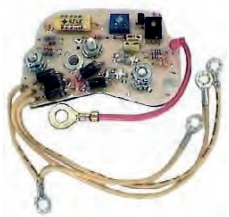
Volts	Voltage Set	Mounting Holes	Pins
24V	27.5V	32mm,37mm	2-PIN

Desc/Notes: 20SI;27SI;30SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). TERMINALS LINKED BY WEB/BRIDGE

Vehicle Apps: . CASE. CATERPILLAR. CLARK. CUMMINS. EUCLID. FIAT. INTERNATIONAL EAGLE, HARVESTER. KOMATSU. MACK. OSHKOSH. VOLVO

AOPEC: A0200031003, A021003103, A021103120B

Replacing: 1894460, 1116388, 2S0857, 3T6354



Manuf/Sys: **DELCO**

Volts	Voltage Set	Mounting Holes	Pins
24V	27.5V	49mm	

Desc/Notes: 25SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CATERPILLAR. EUCLID. INGERSOLL RAND. INTERNATIONAL EAGLE. KOMATSU. MACK. VOLVO

AOPEC: A021103130

Replacing: 1969110, 10498824, 1892824

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Regulators

Manuf/Sys: **HITACHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.3V	116mm	6P N-IG-L-E-F-B

Desc/Notes: ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN). MECHANICAL

Vehicle Apps: . CHEVROLET. ISUZU. OPEL. TOYOTA

AOPEC: A021903121

Replacing: 8942025810, 8942059560, 94021596, 94021595, 0260002510

Manuf/Sys: **HITACHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.3V	50mm	5P B-S-L-F-E

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . ISUZU. NISSAN 1200, 1400, 1500, 1600, CABSTAR 2 0L, FORKLIFTS, HARDBODY 2.4i, LAUREL 2.8L, PATHFINDER 2.4L 4WD, PULSAR, SENTRA, TERRANO 2.4i

AOPEC: A021903119

Replacing: 23215B8900, 23215Q4601, 23215B9800, 23215P2500, 429907110

Manuf/Sys: **HITACHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.3V	50mm	6P B-S-R-L-F-E

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . ISUZU KB250D, KB250DT, KB280DT. KIA. NISSAN 1-TONNER, 2.5L DIESEL, 2.7L DIESEL, ALMERA, FORKLIFTS, PRIMERA, SENTRA

AOPEC: A020003119

Replacing: 23215W1700, S20824520, 23125W1701, 8942377280, 8942509640

Manuf/Sys: **HITACHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.3V	50mm	3P S-IG-L

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . ISUZU 2.0L DIESEL, 2.2L DIESEL, KB250 DIESEL

AOPEC: AVR507

Replacing: 8941674100, L15033155, 94167410, A556536A

Manuf/Sys: **HITACHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	54mm	2P S-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . HONDA. ISUZU 3.2L

AOPEC: A020003189, A021903111

Replacing: TR1Z127

Manuf/Sys: **HITACHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	50mm	2P S-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). COMPLETE WITH BRUSH HOLDER AND PLUG

Vehicle Apps: . ISUZU. NISSAN 2.7L DIESEL

AOPEC: A020003141

Replacing: L15093155, L16063153, L15063601, 2352818G01, 23528V7200

Manuf/Sys: **HITACHI**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.5V	50mm	5P R-R-L-F-E

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . ISUZU. NISSAN. TCM. YANMAR

AOPEC: A235009900

Replacing: 2350099008, 11912977820, 5812510160

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Manuf/Sys: **HITACHI**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.0V	115mm	5P N-IG-L-E-F

Desc/Notes: ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN). MECHANICAL - WIRE TERMINAL IS "IG"

Vehicle Apps: . ISUZU

AOPEC: A020003166

Replacing: 82250134, 9822501120, 9822501340, 82211520

Manuf/Sys: **HITACHI**

Volts	Voltage Set	Mounting Holes	Pins
24V			3-PIN

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). ROUND PLUG

Vehicle Apps: . ISUZU

AOPEC: A020003169

Replacing:

Manuf/Sys: **HITACHI**

Volts	Voltage Set	Mounting Holes	Pins
24V			2-PIN

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . NISSAN CABSTAR

AOPEC: A0200031200

Replacing:

Manuf/Sys: **ISKRA**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	65mm	

Desc/Notes: AAK. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . DEUTZ. KHD. LINDE. MANITOU. VM. VOLKSWAGEN

AOPEC: A02790310

Replacing: 11125122, 11125149, AER1528, AER1543

Manuf/Sys: **ISKRA**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.0V	55mm	

Desc/Notes: AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . DEUTZ. KHD. MASSEY FERGUSON

AOPEC: A027903101B

Replacing: 16908850, 16908833

Manuf/Sys: **ISKRA**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	55.5mm	

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . JOHN DEERE. LANDINI. NEW HOLLAND. PERKINS

AOPEC: A027903100

Replacing: 11125124, 11125188, 11125208, 16906352, AER1603

Manuf/Sys: **LEECE NEVILLE**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.2V	50.6mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). SEALS OFF BRUSH HOLDER

Vehicle Apps: . THERMO KING

AOPEC: A02230310

Replacing: 411740, 8RG2060A, 200025, 105335, 5335

Regulators

Manuf/Sys: **LEECE NEVILLE**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	75mm,51mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). RED - POSITIVE | BLACK - EARTH | GREEN - FIELD | YELLOW - STATOR - ADJUSTABLE VOLTAGE SET

Vehicle Apps: . CATERPILLAR. CUMMINS. KENWORTH. MACK

AOPEC: A022603192

Replacing: 5329, 105329, 8RG2101A, 8RG2112

Manuf/Sys: **LEECE NEVILLE**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.3V	147mm,127mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CASE. NEW HOLLAND. THERMO KING

AOPEC: A022603194

Replacing: 8RL3013, 105251, 446390, 5251

Manuf/Sys: **LEECE NEVILLE**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.0V	76.3mm,50.7mm	

Desc/Notes: 8RG. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CATERPILLAR. CUMMINS

AOPEC: A022603196

Replacing: 8RG3078, 105353

Manuf/Sys: **LEECE NEVILLE**

Volts	Voltage Set	Mounting Holes	Pins
24V	27.6V	75.4mm,50.7mm	

Desc/Notes: ADJUSTABLE VOLTAGE | RED=POSITIVE(+) | BLACK=GROUND | GREEN=FIELD | YELLOW=STATOR

Vehicle Apps: . CATERPILLAR

AOPEC: A022303190

Replacing: 105247, 8RG3029

Manuf/Sys: **LUCAS**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	30mm,49mm,51mm	

Desc/Notes: AS123. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . BELL. CHEVROLET. FORD. HYSTER. ISUZU. JOHN DEERE. LAND ROVER. LEYLAND MINI. MASSEY FERGUSON. MAZDA. NISSAN. OPEL. PERKINS. SCANIA. TOYOTA. VOLKSWAGEN. VOLVO

AOPEC: A022303110

Replacing: 66201555, UCB150, 54048473, 37707

Manuf/Sys: **LUCAS**

Volts	Voltage Set	Mounting Holes	Pins
12V		26mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). LUCAS-TVS INDIA

Vehicle Apps: . TATA 509M, 713S

AOPEC: A022303103

Replacing: 9999TV659009, TV659009, 26938180A

Manuf/Sys: **LUCAS**

Volts	Voltage Set	Mounting Holes	Pins
12V		26mm	

Desc/Notes: 3SA23;2SA23. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . TATA

AOPEC: A02230310

Replacing: 26215686

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Manuf/Sys: **MAGNETI-MARELLI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.0V	76mm;74mm	3P LI-RC-AS

Desc/Notes: A115i. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). COMPUTER CONTROLLED VOLTAGE REGULATION

Vehicle Apps: . FORD FOCUS

AOPEC: A0200031146

Replacing: 85562541, 85562801

Manuf/Sys: **MANDO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	49.8mm	2P L-S

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . HYUNDAI H100, SONATA, STAREX CRDI, TERRACAN 2.5L, 2.9 L. KIA CARNIVAL DIESEL, SORENTO

AOPEC: A028903100

Replacing: 3737042300

Manuf/Sys: **MANDO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	52mm	2P S-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . BOBCAT. HYUNDAI ACCENT 1.5L, 1.6L, ELANTRA 2.0L

AOPEC: A02540310

Replacing: TA500C09001, 3737022600

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	50mm	2P R-L

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . FORD. HYUNDAI. MAZDA B2200 DIESEL, E-SERIES 2.2L DIESEL. MITSUBISHI COLT 2.5L DIESEL

AOPEC: A020003148

Replacing: A866T03470, SE2124520, A866T03070, MD607619, MD618302

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	30mm	2P R-L

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . MAZDA E3000 DIESEL, T3000 AND TRADER

AOPEC: A022503105

Replacing: A866X02470, S50918300C, S50124520, S20218300A, S50218300C

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	50mm	2P R-L

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . FORD. HYUNDAI. MAZDA. MITSUBISHI

AOPEC: A020003136

Replacing: A866T00470, 550124520, A866T00670, N22124520, MD607570

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	50mm	2P S-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . NISSAN ALMERA 1.6L, 1.8L, PRIMERA 1.6L, 1.8L

AOPEC: A022503131

Replacing: A866X36272, A866X42672

Regulators

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	40mm	2P R-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . FORD. HYUNDAI. MAZDA. MITSUBISHI. NISSAN

AOPEC: A024003101

Replacing: A866X04872, E35618W70, 3737021200, E8GY10316, FE6524520

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	40mm	2P S-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . HYUNDAI. MITSUBISHI PAJERO 2 5L, 3.0L

AOPEC: A02000312

Replacing: A866X09171, MD611481, 940038082

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	50mm	2P S-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . HYUNDAI ACCENT, ELANTRA, TIBURON. PROTON

AOPEC: A020003163

Replacing: 3737022200

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	50mm	2P S-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . FORD 2 0L DIESEL. MAZDA 2.0L DIESEL

AOPEC: A020003120

Replacing: A866X25572, MD618735, MD619167

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	40mm	2P S-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . FORD. HYUNDAI. MAZDA. MITSUBISHI. VOLVO

AOPEC: A020003137B

Replacing: A866X05272, MD611432, 2312504P10, 940038088, MD611710

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	50mm	4P C-S-L-FR

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . EAGLE. MITSUBISHI

AOPEC: A021602501

Replacing: MD618957, 2857226A, 2857328D, A866X28572

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	50mm	2P S-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . FORD RANGER 2.5L DIESEL, TELSTAR 2 0L, 2.5L V6. MAZDA 2.5L DIESEL BAKKIE, 626 2.0L, MX6 2.5L

AOPEC: A020003106, AYV1906

Replacing: A866X20472, JE4818W70, F1CZ10316A, 2044208J, B64J18300B

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Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	40mm	2P R-L

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . HYUNDAI 2.6L DIESEL LDV H100. MITSUBISHI 2.5L COLT DIESEL

AOPEC: A020003180

Replacing: 3737042540, 3737042500

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	50mm	3P D-IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . SUZUKI

AOPEC: A02250313

Replacing: A866X23772, A866X23773, 3250060A21

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.3 V	50mm	2P P-D

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). WARNING: P-D TERMINAL TYPE CONNECTION, NEEDS SPECIAL TESTING EQUIPMENT TO TEST REGULATOR AND ALTERNATOR.

Vehicle Apps: . MAZDA 6, MPV

AOPEC: A022703101

Replacing: A866X46572, GY0118W70

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	49.9mm	3P DUMMY-D-P

Desc/Notes: WARNING: P-D TERMINAL TYPE CONNECTION, NEEDS SPECIAL TESTING EQUIPMENT TO TEST REGULATOR AND ALTERNATOR.

Vehicle Apps: . MAZDA 3, 6

AOPEC: A02000313

Replacing: A866X50572

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.6V	50mm	2P R-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . BELL. HITACHI. ISUZU. MITSUBISHI TRUCK AND INDUSTRIAL

AOPEC: A0225031001, A022503129 A028003101

Replacing: A866X28372, ME701399

Manuf/Sys: **MITSUBISHI**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.5V	50mm,112mm	2P S-L

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . FURUKAWA. MITSUBISHI INDUSTRIAL, TRUCK

AOPEC: A020003159

Replacing: A866X26070, A866X26072, ME701302

Manuf/Sys: **MOTOROLA**

Volts	Voltage Set	Mounting Holes	Pins
12V		79mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . ADE. BELL. CASE. CHEVROLET. DEUTZ. FORD. HYSTER. JOHN DEERE. MAN. MERCEDES-BENZ. NISSAN. SAMIL. TOYOTA. VOLKSWAGEN

AOPEC: A022603199

Replacing: 5MSA125

Regulators

Manuf/Sys: **MOTOROLA**

Volts	Voltage Set	Mounting Holes	Pins
12V		76.2mm,50.7mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . VARIOUS APPLICATIONS

AOPEC: A022603197

Replacing: 8RG2122, 105363

Manuf/Sys: **MOTOROLA**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.0V	127mm,147mm	

Desc/Notes: SC175. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CATERPILLAR. CUMMINS

AOPEC: A022603101

Replacing: 105396, 8RL3024

Manuf/Sys: **MOTOROLA**

Volts	Voltage Set	Mounting Holes	Pins
24V	29.2V	66mm x2,40mm	

Desc/Notes: ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . VARIOUS APPLICATIONS

AOPEC: A02260315

Replacing: 5185, 8RH3018A, 5-185

Manuf/Sys: **NIEHOFF**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.0V	90.7mm	5-PIN

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . INDUSTRIAL, EARTHMOVING, RAIL, TRUCK AND BUS APPLICATIONS

AOPEC: A024103113

Replacing: A2126

Manuf/Sys: **NIEHOFF**

Volts	Voltage Set	Mounting Holes	Pins
24V	27.6V	90.5mm	4-PIN

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . INDUSTRIAL, EARTHMOVING, RAIL, TRUCK AND BUS APPLICATIONS

AOPEC: A024903100

Replacing: A2111

Manuf/Sys: **NIEHOFF**

Volts	Voltage Set	Mounting Holes	Pins
24V	Selectable	88.8mm	6-PIN

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). SELECTABLE VOLATGE SETS:; POSITION-1: 27.5V; POSITION-2: 28.0V; POSITION-3: 28.5V; POSITION-4: 29.0V

Vehicle Apps: . INDUSTRIAL, EARTHMOVING, RAIL, TRUCK AND BUS APPLICATIONS

AOPEC: A024103101

Replacing: A2146

Manuf/Sys: **NIKKO**

Volts	Voltage Set	Mounting Holes	Pins
24V	27.5V	73mm	2P FLD-B+

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . ISUZU. KOMATSU

AOPEC: A022903101

Replacing: 1440000580, 1440000730, 1812510040, 1812510240, 5812510120

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Manuf/Sys: **NIKKO**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.3V	50mm	5P S-B-R(L)-F-E

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . ISUZU. KOMATSU. NISSAN

AOPEC: A022903104

Replacing: 0337190030, 1812600050, 0337190100, 8941730520, 1440000900

Manuf/Sys: **NIKKO**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.5V	50mm	5P S-B-R(L)-F-E

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . KOMATSU PC300, PC400

AOPEC: A0-35719-0151, A022903110

Replacing: 0357190151, 7440000901

Manuf/Sys: **NIKKO**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.0V	50mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). WITH RECTIFIER

Vehicle Apps: . KOMATSU

AOPEC: A0-33730-256

Replacing: 0337302560

Manuf/Sys: **NIKKO**

Volts	Voltage Set	Mounting Holes	Pins
24V		50mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). FITS ALT: 600-825-9310

Vehicle Apps: . KOMATSU

AOPEC: A0-35719-0180

Replacing: 0357190180, KD0357190180

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	64mm	3P S-IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). "L" TERMINAL DRIVES CHOKE

Vehicle Apps: . HONDA. TOYOTA CAMRY, CONQUEST, COROLLA, HIACE, HILUX

AOPEC: A022803105

Replacing: 2770063021, 2770072070, 1260000340, 2770063020, 31150PD2004

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.3V	116mm	6P B-L-E-F-N-IG

Desc/Notes: ER/EF (EXTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . TOYOTA

AOPEC: A022803152

Replacing: 2770063010, 2770072030, 0260004300, 2770013090, 2770063040

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.2V	44mm	3P S-G-F

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . TOYOTA DYNA 2.2L/2.4L DIESEL, HIACE 2.2L/2.4L DIESEL, HILUX 2.2L/2.4L DIESEL, LAND CRUISER

AOPEC: A02280315

Replacing: 2770057060, 1260000180, 1260000770, 1260000820

Regulators

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.0V	43mm	3P S-L-IG

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). ROUND PLUG - 3-PIN

Vehicle Apps: . ISUZU KB250D, KB280D. TOYOTA INDUSTRIAL

AOPEC: AIN92

Replacing: 1260000920, 1260001460, 2700064040, 126000-0920

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.3V	43mm	3P L-S-IG

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). SQUARE (GREEN) PLUG - 3-PIN

Vehicle Apps: . ISUZU KB250D, KB280D. TOYOTA 2.4L DIESEL, INDUSTRIAL

AOPEC: A020003100

Replacing: 1260000920, 126000-0920

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	57.5mm	2P IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). L-TERMINAL DOES NOT DRIVE CHOKE

Vehicle Apps: . BOBCAT. DAIHATSU. KUBOTA. TOYOTA FORKLIFT. YANMAR

AOPEC: A778236005

Replacing: 2770087207, 1260001160, 1260000600, 2770096301

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	57.5mm	2P IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). L-TERMINAL DRIVES CHOKE

Vehicle Apps: . DAIHATSU. GEHL. KUBOTA. TOYOTA FORKLIFT, INDUSTRIAL

AOPEC: AIN255

Replacing: 1260000970

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.0V	57.5mm	3P S-IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). L-TERMINAL DRIVES CHOKE

Vehicle Apps: . TOYOTA 5 AND 6 SERIES FORKLIFT - DIESEL/PETROL

AOPEC: A020003107, A020003161

Replacing: 1260007040

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	51.4mm	3P D-IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . HONDA. SUZUKI

AOPEC: A022803156

Replacing: 1260000410, 1260000470, 31500PE0003

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	51.8mm	4P S-FR-IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . TOYOTA QUANTUM 2 5L DIESEL (2.5D)

AOPEC: A020003126

Replacing: 1260002190, 1260002450, 31150P5G003

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Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	64mm	2P IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). L TERMINAL DOES NOT DRIVE CHOKE

Vehicle Apps: . DAIHATSU CHARADE. TOYOTA FORKLIFT

AOPEC: A022803112

Replacing: 1260000371

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.5V	57.5mm	3P P-IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). WITH LOAD RESPONSE CONTROL

Vehicle Apps: . CATERPILLAR

AOPEC: A020003109, A022803107

Replacing: 1260001800

Manuf/Sys: **NIPPON DENSO**

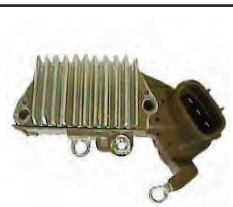
Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	64mm	3P S-IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). LOAD RESPONSE CONTROL

Vehicle Apps: . DODGE. LEXUS. TOYOTA COROLLA, CELICA AND MR2

AOPEC: A022803160

Replacing: 1260000610, 1260001440, 2770050010, 2770074010



Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	64mm	3P S-IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). L-TERMINAL DRIVES CHOKE

Vehicle Apps: . LEXUS. TOYOTA CAMRY 2.2L, HILUX 2.2L, LAND CRUISER 4.5L

AOPEC: A020003139

Replacing: 1260001730, 1260001930, 2770066040, 2770011070

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.2V	42.9mm	4P IG-S-L-M

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). STANDARD LAMP FUNCTION - NO OUTPUT

Vehicle Apps: . LEXUS. TOYOTA QUANTUM

AOPEC: A022803154

Replacing: 1266000150

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V			2-PIN

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . JOHN DEERE. KOMATSU

AOPEC: A026000700

Replacing: 0260007000

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.7V	49mm	2P L-R

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . KIA SPORTAGE 2.0L

AOPEC: A020003164B, A022803102

Replacing: 1215000011

Regulators

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.0V	56mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . CATERPILLAR. INTERNATIONAL EAGLE. KOMATSU. MACK. TOYOTA. VOLVO

AOPEC: A022803103

Replacing: 1260000380, 7T2798, 126000-0380

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.0V	64mm	3P S-IG-L

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . TOYOTA BUS, DYNA 200, LAND CRUISER

AOPEC: A022803110

Replacing: 1260007010

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
24V	27.9V	60mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). ALT.: 197-8820

Vehicle Apps: . CATERPILLAR

AOPEC: A024703101B

Replacing: 1260002540

Manuf/Sys: **NIPPON DENSO**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.5V	59mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). R-L-F-E-L-A-N

Vehicle Apps: . NISSAN. TOYOTA HINO

AOPEC: A020003128

Replacing: 129100800X0, 277001700, 23500Z9007, 121900800X0SF

Manuf/Sys: **PARIS-RHONE**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.3V	64mm,39mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . VOLVO PENTA MARINE

AOPEC: A028903114

Replacing: 92966, YL135

Manuf/Sys: **PRESTOLITE**

Volts	Voltage Set	Mounting Holes	Pins
24V		146.7mm,127mm	4-PIN

Desc/Notes: SCJ;8SC. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . VARIOUS EARTHMOVING AND INDUSTRIAL APPLICATIONS

AOPEC: A022603190

Replacing: 8RL3028S

Manuf/Sys: **SAWAFUJI**

Volts	Voltage Set	Mounting Holes	Pins
24V		59mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). ALT.: 2310097702 | 02011720221

Vehicle Apps: . HINO. NISSAN. TOYOTA

AOPEC: A02380310

Replacing: 1260003270, 2350029014

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Manuf/Sys: **SAWAFUJI**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.7V	60mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 5P R-L-F-C-E (ON REGULATOR ITSELF - WITHOUT WIRES)

Vehicle Apps: . KOMATSU

AOPEC: A151002901X0

Replacing: SD151002910X0, 151002910X0

Manuf/Sys: **SAWAFUJI**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.7V	59mm	5P R-L-F-C-E

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).

Vehicle Apps: . KOMATSU D785. NISSAN BUS. TOYOTA HINO BUS

AOPEC: A17010008000

Replacing: 277001510, 121900400, 2350099005, SD151002910X0, 151002910X0

Manuf/Sys: **SAWAFUJI**

Volts	Voltage Set	Mounting Holes	Pins
24V	28.3V	66mm	

Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). FITS: 02011520422

Vehicle Apps: . NISSAN UD80, UD90

AOPEC: A020003118

Replacing: 129101000X0, 2350099109, 277001810

Manuf/Sys: **VALEO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	64mm	2P L-IG

Desc/Notes: A11VI;A13VI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . BMW. RENAULT

AOPEC: A028903116

Replacing: 592802, YV1668H, 2541407, 940038185

Manuf/Sys: **VALEO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	53mm,61mm	2P L-DUMMY

Desc/Notes: SG9B;SG10B;SG12B. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . RENAULT CLIO, ESPACE, KANGOO, LAGUNA, MEGANE, SCENIC

AOPEC: A028903120

Replacing: 593384, 593396, YM1636P1

Manuf/Sys: **VALEO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.7V	53mm,61mm	2P L-FR

Desc/Notes: SG14B. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . AUDI A4, A6, A8. VOLKSWAGEN PASSAT

AOPEC: A020003149B, A028903102

Replacing: 593455

Manuf/Sys: **VALEO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	61.3mm,53.2mm	1P L (M5 POST)

Desc/Notes: SG9B. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . MERCEDES-BENZ A140, A160

AOPEC: A020003184

Replacing: 593454, YM1666FP5

Regulators

Manuf/Sys: **VALEO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	64mm	3P L-IG-DUMMY

Desc/Notes: A13VI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . BMW 316i, 318i

AOPEC: A020003144, A020003194

Replacing: 593353, 2542207B

Manuf/Sys: **VALEO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	61.5mm,20.7mm,53mm	

Desc/Notes: A13VI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . CITROEN. PEUGEOT

AOPEC: A028903106, A028903112

Replacing: 593529

Manuf/Sys: **VALEO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	61mm,53.2mm,20.5mm	2P L-IG

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . BMW. LAND ROVER

AOPEC: A028903118

Replacing: 2543327B

Manuf/Sys: **VALEO**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.6V	61mm,53mm,20mm	2P L-DFM

Desc/Notes: SG12B;TG11C. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).

Vehicle Apps: . NISSAN. RENAULT

AOPEC: A028903104

Replacing: 593689

Manuf/Sys: **VALEO**

Volts	Voltage Set	Mounting Holes	Pins
24V	27.5V	64mm,35mm	

Desc/Notes: A13N;A14N. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).
WIRES: YELLOW=B+ | BROWN=D+ | BLACK=B-

Vehicle Apps: . VOLVO

AOPEC: A025703102

Replacing: 872368, 6009116099797, 590536, ZV3729

Manuf/Sys: **VISTEON**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.0V	46mm	3P S-DUMMY-L

Desc/Notes: RC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). SOFT START - WITH CIRCUIT PROTECTION

Vehicle Apps: ROCAM-Engine. FORD BANTAM, FIESTA, FOCUS 2.3L, MONDEO III 2.0L TDDi. MAZDA

AOPEC: A020003103, A020003199

Replacing: BF0A10376AA

Manuf/Sys: **VISTEON**

Volts	Voltage Set	Mounting Holes	Pins
12V	14.4V	45.5mm	3P AS-FR-IL

Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN). SOFT START | 8.5 SECOND LRC | SHORT CIRCUIT PROTECTED

Vehicle Apps: . FORD FOCUS 1.8L

AOPEC: A020003175

Replacing:

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Manuf/Sys: **BOSCH**	Volts	OD	Length	S/Ring OD	Splines	**AOPEC:** A020400211R
	12V	103.3mm	161mm	27.9mm	None	
	Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 0120468… SERIES					
	Vehicle Apps: . BMW. FIAT					**Replacing:** 1124035094, 1124035198, 1124035199, 1124035231

Manuf/Sys: **BOSCH**	Volts	OD	Length	S/Ring OD	Splines	**AOPEC:** A020403681R
	24V	100.5mm	171.5mm	28mm	None	
	Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 0120469… & 6033GB3… SERIES ALTERNATORS					
	Vehicle Apps: . DAF. DRESSER. KASSBOHRER. MAN. MERCEDES-BENZ. SSANGYONG. VOLVO					**Replacing:** 1124035168, 1124035077, 1124035258, R955N

Manuf/Sys: **BOSCH**	Volts	OD	Length	S/Ring OD	Splines	**AOPEC:** A020403682R
	24V	100mm	174mm	27mm	None	
	Desc/Notes: K1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Vehicle Apps: . ADE. HINO. MERCEDES-BENZ					**Replacing:** 1124034644

Manuf/Sys: **BOSCH**	Volts	OD	Length	S/Ring OD	Splines	**AOPEC:** AF00M131616R
	24V	102.6mm	159.6mm	15.5mm	None	
	Desc/Notes: NCB1. IR/IF (INTERNAL REGULATOR - INTERNAL FAN). 0124555… SERIES ALTERNATORS					
	Vehicle Apps: . MERCEDES-BENZ					**Replacing:** F00M131645, R945N

Manuf/Sys: **BOSCH**	Volts	OD	Length	S/Ring OD	Splines	**AOPEC:** A020400205
	24V	103.4mm	167.6mm	27.5mm	None	
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 0120469... SERIES; 6033GB3... SERIES					
	Vehicle Apps: . MERCEDES-BENZ ACTROS, ATEGO, VARIO					**Replacing:** 1124035261

Manuf/Sys: **BOSCH**	Volts	OD	Length	S/Ring OD	Splines	**AOPEC:** A020400209R
	24V	125mm	248mm	32mm	None	
	Desc/Notes: T1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). ENCLOSED STATOR - SLOT ON DRIVE/PULLEY END SHAFT					
	Vehicle Apps: . MARCOPOLO. MERCEDES-BENZ. SCANIA					**Replacing:** 1124037001, 1124037002, 1127037003, 1127037004, R9T1N

Manuf/Sys: **CAV**	Volts	OD	Length	S/Ring OD	Splines	**AOPEC:** A023100201
	24V	145.3mm	288mm	23mm	None	
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . VOLVO					**Replacing:** A1388, 6332A1433, 6332A1388, R720N

Rotors

Manuf/Sys:	Volts	OD	Length	S/Ring OD	Splines	
DELCO	12V	116.4mm	219mm	29.4mm	None	**AOPEC:** A021100210
	Desc/Notes: 27SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . CATERPILLAR. INTERNATIONAL. KOMATSU					**Replacing:** 1852040, 1978872, 9L6784, R210N

Manuf/Sys:	Volts	OD	Length	S/Ring OD	Splines	
DELCO	24V	107mm	208mm	14.5mm	None	**AOPEC:** A021100216R
	Desc/Notes: 24SI. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Vehicle Apps: . CUMMINS. TEREX					**Replacing:** 10510452

Manuf/Sys:	Volts	OD	Length	S/Ring OD	Splines	
DELCO	24V	116mm	219mm	30mm	None	**AOPEC:** A021100213B
	Desc/Notes: 27SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 200 SERIES					
	Vehicle Apps: . CATERPILLAR. EUCLID. INTERNATIONAL EAGLE, HARVESTER. KOMATSU. MACK. VOLVO					**Replacing:** 1978873, 1944881, 1870542

Manuf/Sys:	Volts	OD	Length	S/Ring OD	Splines	
NIEHOFF	24V	136mm	46.5mm		None	**AOPEC:** A024103108
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . INDUSTRIAL, EARTHMOVING, RAIL, TRUCK AND BUS APPLICATIONS					**Replacing:** A7320

Manuf/Sys:	Volts	OD	Length	S/Ring OD	Splines	
NIKKO	24V	92mm	183mm	31.4mm	None	**AOPEC:** A020400403R
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . KOMATSU					**Replacing:** 7331000120, 7331000121

Manuf/Sys: **BOSCH**	Volts	Amps	ID	OD	Height	**AOPEC:** A020400418R
	12V	55A	89.2mm	124.9mm	23.4mm	
	Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 9120690..., 0120489... SERIES					
	Vehicle Apps: . ADE. AUDI. BELL. BMW. CASE. CATERPILLAR. FIAT. FORD. ISUZU. IVECO. KHD. MAN. MASSEY FERGUSON. MAZDA. MERCEDES-BENZ. NEW HOLLAND. OPEL. PERKINS. TOYOTA. UNIVERSAL K1 ALTERNATOR. VOLKSWAGEN					**Replacing:** 1125045012, 9121690003

Manuf/Sys: **BOSCH**	Volts	Amps	ID	OD	Height	**AOPEC:** A020400436
	12V	55A	89mm	124mm	22mm	
	Desc/Notes: K1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . FORD TRACTOR. MASSEY FERGUSON. MAZDA. NISSAN. TOYOTA					**Replacing:** 1125045021, 1125045034, S905N

Manuf/Sys: **BOSCH**	Volts	Amps	ID	OD	Height	**AOPEC:** A021900402R
	12V	90A	94mm	125mm	32mm	
	Desc/Notes: KC. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Vehicle Apps: . MERCEDES-BENZ. OPEL. VOLKSWAGEN					**Replacing:** 1125045212, 1125045233, 1125045234, 1125045537, S917N

Manuf/Sys: **BOSCH**	Volts	Amps	ID	OD	Height	**AOPEC:** A020400415B, A020400416R T020400425
	24V	55A	101mm	138mm	24mm	
	Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 0120469..., 6033GB3... SERIES					
	Vehicle Apps: . ADE. BELL. CUMMINS. DAF. FIAT. FORD. INTERNATIONAL. KHD. MAN. MERCEDES-BENZ. PERKINS. SCANIA					**Replacing:** 1125045128, 1125045132, 1125045203

Manuf/Sys: **BOSCH**	Volts	Amps	ID	OD	Height	**AOPEC:** A020400426
	24V	75A, 80A	104mm	142mm	28.8mm	
	Desc/Notes: N1. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 0120468..., 0120469..., 6033G30..., 6033GB3... SERIES					
	Vehicle Apps: . DEUTZ. IVECO. KHD. MERCEDES-BENZ. RENAULT. SCANIA. UNIMOG. VOLVO					**Replacing:** 1125045167, 1125045165, 1125045152, 1125045197, S991N

Manuf/Sys: **DELCO**	Volts	Amps	ID	OD	Height	**AOPEC:** A1894490B
	12V	60A	105mm	135mm	23.6mm	
	Desc/Notes: 20SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . CATERPILLAR. INGERSOLL RAND. INTERNATIONAL. KOMATSU. VOLVO					**Replacing:** 1894490

Manuf/Sys: **DELCO**	Volts	Amps	ID	OD	Height	**AOPEC:** A10468714
	12V	90A, 100A	108mm	144mm	29mm	
	Desc/Notes: 21SI;22SI;CS144. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . CATERPILLAR. CUMMINS. EUCLID. FREIGHTLINER. JOHN DEERE. KOMATSU. MACK. VOLVO					**Replacing:** 10468714, 10467263, 10472540, 10472882, 10494279

Stators

Manuf/Sys: **DELCO**	Volts	Amps	ID	OD	Height	**AOPEC:** A021100433
	12V;24V	105A	116mm	151.5mm	26mm	
	Desc/Notes: 30SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). HAS 2ND FINE COIL FOR 24V					
	Vehicle Apps: . CATERPILLAR. CUMMINS. FORD. INTERNATIONAL EAGLE. KOMATSU. MACK. VOLVO					**Replacing:** 10497825, D8HZ10336B, 1876804

Manuf/Sys: **DELCO**	Volts	Amps	ID	OD	Height	**AOPEC:** A021100432B
	12V	135A	116mm	152mm	24.8mm	
	Desc/Notes: 33SI;34SI;35SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . CATERPILLAR. CUMMINS. FREIGHTLINER. VOLVO					**Replacing:** 10491242

Manuf/Sys: **DELCO**	Volts	Amps	ID	OD	Height	**AOPEC:** A021100424B
	12V;24V	75A	116mm	152mm	25.5mm	
	Desc/Notes: 26SI;25SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . CATERPILLAR. EUCLID. INTERNATIONAL EAGLE. KOMATSU. MACK. VOLVO					**Replacing:** 1968892, 1971465, S207N

Manuf/Sys: **DELCO**	Volts	Amps	ID	OD	Height	**AOPEC:** A021100434B
	12V	110A	116mm	152mm	24.8mm	
	Desc/Notes: 33SI;34SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					**Electrolog:** STA2610
	Vehicle Apps: . CATERPILLAR. CUMMINS. DETROIT. FORD. FREIGHTLINER. INTERNATIONAL HARVESTER. KENWORTH. MACK. VOLVO					**Replacing:** 10492139

Manuf/Sys: **DELCO**	Volts	Amps	ID	OD	Height	**AOPEC:** A021100435B
	12V	160A	121.5mm	168mm	34.5mm	
	Desc/Notes: 31SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . VARIOUS APPLICATIONS					**Replacing:** 10493268

Manuf/Sys: **DELCO**	Volts	Amps	ID	OD	Height	**AOPEC:** A021100421R
	24V	45A	105mm	135mm	20.8mm	
	Desc/Notes: 20SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . ALLIS-CHALMERS. CATERPILLAR. EUCLID. INGERSOLL RAND. INTERNATIONAL EAGLE. KOMATSU. MACK. VOLVO					**Replacing:** 1874548, 1974548, 67013361, 1894467, 7N7804

Manuf/Sys: **DELCO**	Volts	Amps	ID	OD	Height	**AOPEC:** A021100422R
	24V	50A, 70A	108.3mm	144.5mm	28.2mm	
	Desc/Notes: 21SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . CATERPILLAR. CLARK. CUMMINS. EUCLID. INGERSOLL RAND. INTERNATIONAL EAGLE, HARVESTER. KOMATSU. MACK. VOLVO					**Replacing:** 10470688, 10470875, S213N

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Manuf/Sys: **DELCO**	Volts	Amps	ID	OD	Height	**AOPEC:** A021100427
	24V;12V	65A, 80A	117.5mm	161.5mm	21.3mm	
	Desc/Notes: 27SI. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). 12V 65A-80A;24V 65A					
	Vehicle Apps: . CATERPILLAR. CHEVROLET. CLARK. EUCLID. HYSTER. INTERNATIONAL EAGLE, HARVESTER. JOHN DEERE. KOMATSU. MACK. VOLVO					**Replacing:** 801818, 1852033, 98818, 9L6775

Manuf/Sys: **ISKRA**	Volts	Amps	ID	OD	Height	**AOPEC:** A027900401
	12V	95A	94mm	125mm	31mm	
	Desc/Notes: AAK. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Vehicle Apps: . DEUTZ. JOHN DEERE. MASSEY FERGUSON. NEW HOLLAND					**Replacing:** 16350129

Manuf/Sys: **ISKRA**	Volts	Amps	ID	OD	Height	**AOPEC:** A027900402
	24V	55A	93.8mm	124.6mm	30.7mm	
	Desc/Notes: IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Vehicle Apps: . DEUTZ. KHD					**Replacing:** 16350137

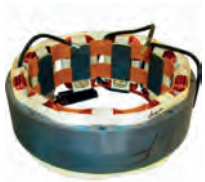
Manuf/Sys: **LUCAS**	Volts	Amps	ID	OD	Height	**AOPEC:** A022300408P
	12V	30A, 35A	84mm	114mm	24mm	
	Desc/Notes: 17ACR;21ACR. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . FORD TRACTOR. MASSEY FERGUSON. NISSAN. TOYOTA					**Replacing:** 66200364, S21N

Manuf/Sys: **LUCAS**	Volts	Amps	ID	OD	Height	**AOPEC:** A022300403R
	12V	90A	90mm	128mm	25mm	
	Desc/Notes: AS128i;AS128. IR/IF (INTERNAL REGULATOR - INTERNAL FAN).					
	Vehicle Apps: . FORD. MAZDA. NISSAN					**Replacing:** 66201619

Manuf/Sys: **MOTOROLA**	Volts	Amps	ID	OD	Height	**AOPEC:** A022300402
	12V	65A	89mm	127mm	26mm	
	Desc/Notes: 8EK;8MR. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . THERMO KING					**Replacing:** 113-71

Manuf/Sys: **NIEHOFF**	Volts	Amps	ID	OD	Height	**AOPEC:** A024103105
	24V	260A	135.8mm	181mm	43mm	
	Desc/Notes: C600-SERIES. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . INDUSTRIAL, EARTHMOVING, RAIL, TRUCK AND BUS APPLICATIONS					**Replacing:** A7054

Stators

Manuf/Sys:	Volts	Amps	ID	OD	Height	
NIEHOFF	24V		136mm	181mm	43mm	**AOPEC:** A024103115
	**Desc/Notes:** C600-SERIES. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . INDUSTRIAL, EARTHMOVING, RAIL, TRUCK AND BUS APPLICATIONS					**Replacing:** A7192
Manuf/Sys:	Volts	Amps	ID	OD	Height	
NIKKO	24V	35A	107mm	145mm	28.3mm	**AOPEC:** A020400404R
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . KOMATSU					**Replacing:** 1332001230
Manuf/Sys:	Volts	Amps	ID	OD	Height	
NIKKO	24V	90A	151.7mm	200mm	30mm	**AOPEC:** A022900402R
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . KOMATSU					**Replacing:** 0352000320
Manuf/Sys:	Volts	Amps	ID	OD	Height	
NIPPON DENSO	24V	50A	104mm	143mm	21mm	**AOPEC:** A7T6418
	Desc/Notes: IR/EF (INTERNAL REGULATOR - EXTERNAL FAN).					
	Vehicle Apps: . CATERPILLAR. KOMATSU					**Replacing:** 0211002690, 7T6418
Manuf/Sys:	Volts	Amps	ID	OD	Height	
PRESTOLITE	12V	270A	121.6mm	168.6mm	52.6mm	**AOPEC:** A025000401
	Desc/Notes: 4800-4900. IR/EF (INTERNAL REGULATOR - EXTERNAL FAN). FITS ALTERNATOR: A0014970JB					
	Vehicle Apps: . INDUSTRIAL, EARTHMOVING, RAIL, TRUCK AND BUS APPLICATIONS					**Replacing:** A022101888S, 101888

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	74mm	1.1KW	9.2mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 122 . CHRYSLER NEON 1.8L/2.0L

AOPEC: A010819601

Replacing: 6004AA0003, 04793493, 4793493

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	62mm	0.9KW	-5.5mm	CW

Desc/Notes: DM. PMDD (PERMANENT MAGNET - DIRECT DRIVE).

Vehicle Apps: - ENGINE: C1A , C1B , H1A , H1B , H3A , K2D , K3A , K5A , K6B , K6C , K6D . CITROEN AX, BERLINGO, C2, C3, XSARA 1.6L. PEUGEOT 106, 205, 206, 207, 306, 307 1.4i/1.6i, PARTNER. TATA INDICA

AOPEC: A018903610

Replacing: 0001112007, 0001112019, 0001112029, 0001112041

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	67.7mm	1.1KW	17.9mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: OPEL ASTRA 1.8i 16V, VECTRA 1.8i 16V, ZAFIRA 1.8i 16V

AOPEC: A0104036142

Replacing: 0001107077, 0001107098

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	68mm	0.9KW	19mm	CW

Desc/Notes: DM. PMDD (PERMANENT MAGNET - DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 13NE , C14SE . OPEL ASTRA 140i/160i, CORSA 1.3L/130i/130i UTILITY/140i

AOPEC: A018703601R

Replacing: 0001112035, 93599000, 90508036, F000AL0304, 93288991

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	69.8mm	1.1KW	27mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: MERCEDES-BENZ C180 KOMPRESSOR, C200 KOMPRESSOR, C230 KOMPRESSOR, E200 KOMPRESSOR

AOPEC: A010419610

Replacing: 0001107406, 0051513901

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	72mm	1.4KW	46mm	CCW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: KF , KL . FORD TELSTAR 2.0L GLi V6 24V/2.5L V6 TX5. MAZDA 626 2.0i V6 24V/2.5i V6 24V, MX6 2.5L/2.5L V6

AOPEC: A0104036144

Replacing: 9000694021

Complete Starters

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	73.8mm	1.1KW	9mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 4AFE , 7AFE . TOYOTA COROLLA 160i/180i

AOPEC: A018903606B

Replacing: 0001107030, 2810002040, 2810016180

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	73mm	1.7KW;1.8	38.4mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: LAND ROVER 3.5L V8, 3.9L V8, 4.0L V8, 4.5L V8

AOPEC: A010419603, A012303665

Replacing: 0001110120, 0001109040

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	73.7mm	1.4KW	20.5mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 1TRFE , 2TRFE . TOYOTA FORTUNER 2.7i, HILUX 2.0L VVTi/2.0i/2.7L VVTi/2.7i

AOPEC: A0104036174B

Replacing: F004A94007, 281000C040

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	73.6mm		19.9mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 1RZ , 2RZ , 3RZ . TOYOTA QUANTUM 2.7i

AOPEC: A0104036159

Replacing: F004A94012

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	73.6mm		15.3mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 1ZZFE , 2ZZGE , 3ZZFE , 4ZZFE . TOYOTA COROLLA 1.4i/1.6i/1.8i, RUNX 1.4i/1.6i/1.8i

AOPEC: A010419617

Replacing: F004A94434

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74.8mm	1.1KW	32mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: B16A6 , D15B3 , D15B7 , D15ZA , D16A6 , D16A7 , D16A9 , D16Y9 . HONDA BALLADE 130/150i/160i, CRX 160i

AOPEC: A018903602B

Replacing: 9000694007

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Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74mm	1.1KW	14mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). ONE SMALL AND ONE LARGER EYE TERMINAL FOR SOLENOID

Vehicle Apps: - ENGINE: FS . FORD 2000, BANTAM, COURIER, LASER, TELSTAR 2.0L. MAZDA 323, 626 2.0L, B2000

AOPEC: A0104036128B

Replacing: 9000694022, 95NX11000AA

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74mm	1.4KW	21mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: LOMBARDINI - INDUSTRIAL . PERKINS - INDUSTRIAL

AOPEC: A0104036139B

Replacing: 0001108181, 18508662

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74mm	2.0KW	20.5mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: BOBCAT - EARTHMOVING . CATERPILLAR - EARTHMOVING . JCB - EARTHMOVING . PERKINS - AGRICULTURAL , - INDUSTRIAL

AOPEC: A010403694

Replacing: 0001109035, 1850866

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74mm	1.1KW	19mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 2Y , 4Y . TOYOTA CONDOR 1.8L, HIACE 2 2 L/2.2L VAN, HILUX 1.8L/2.0L/2.2L, STALLION 1.8L, VENTURE 1.8L/2. 0L/2.2L

AOPEC: A0104036169

Replacing: 9000694017, R000694017

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	75.8mm	0.9KW	34.5mm	CCW

Desc/Notes: DM. PMDD (PERMANENT MAGNET - DIRECT DRIVE). ONE VERY SMALL AND ONE MEDIUM PUSH ON TERMINAL FOR SOLENOID

Vehicle Apps: - ENGINE: AFV , AFW , AFX , AGY , AJD . VOLKSWAGEN FOX 1.3L/1.6L/1.8L, GOLF I 1.3L/I 1.6L/I 1.8L/II 1.8L/II 2 0L/III 1.6L/III 1.8 L/III 2.0L, JETTA, POLO 1.4L/1.6L/1.8L/PLAYA

AOPEC: A018703605R

Replacing: 9000695006, 0001114006, 0001114005, 1HS911023B, 1HS911023A

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	75.9mm		31.3mm	CCW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: VOLKSWAGEN GOLF I 1.8L/II 1 8L/II 2.0L/III 1.8L/III 2.0L, JETTA I 1.8L/II 1.8L/II 2 0L

AOPEC: A010019637

Replacing: F004A94403, R004A94403

Complete Starters

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76mm	1.4KW	22mm	CW

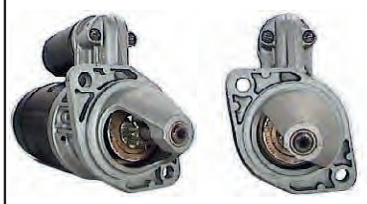
Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). ONE PUSH ON TERMINAL AND ONE EYE TERMINAL FOR SOLENOID

Vehicle Apps: - ENGINE: 184E2 , 184S1 , 194E1 , 194S1 , 206S1/2 , 256S3 , 286S1 , 286S2 . BMW 316i, 318i, 318is, 320i, 323i, 325i, 328i, 518i, 520i, 523i, 525i, 528i, M3 3.2L, Z3

AOPEC: A018903603B

Replacing: 0001108065, 0001108115, 0001108054

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76mm	0.8KW	30mm	CW

Desc/Notes: EF. DD (DIRECT DRIVE). TWO EYE TERMINALS FOR SOLENOID

Vehicle Apps: - ENGINE: M20 . BMW 320, 320i, 325i, 520, 520i, 525e, 525i

AOPEC: A010019619

Replacing: 9000692068, 9000692067

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76.5mm	0.85KW	33mm	CCW

Desc/Notes: EF. DD (DIRECT DRIVE). ONE VERY SMALL AND ONE MEDIUM PUSH ON TERMINAL FOR SOLENOID

Vehicle Apps: VOLKSWAGEN GOLF 1.8L CTi/1.8L GTi/1.8L GTi 16V, JETTA 1.8L CLi/1.8L CLi 16V

AOPEC: A018903605B

Replacing: 9000692070, BCA911023A

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76.9mm	0.85KW	19mm	CW

Desc/Notes: EF. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 4G12 , 4G32 , 4G54 , 4G62 , 4G63 . FORD HUSKY 1.8L/2.0L. MAZDA 323 1.6L. MITSUBISHI COLT GALANT 1.6 L/GALANT 2.0L, L300, STARWAGON, TREDIA 1.4L/1.6L

AOPEC: A012515003

Replacing: 9000692009, R000692009

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76.5mm	1.7KW	29mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 2 x EYE TERMINALS FOR SOLENOID

Vehicle Apps: BMW 530i, 535i, 730i, 735i

AOPEC: A0104036156

Replacing: 0001110041

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76mm	1.1KW	32mm	CCW

Desc/Notes: DB. PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: AEH , AKL . AUDI A3 1.6L/1.8L. VOLKSWAGEN BEETLE 2 0L, GOLF IV 1.4L/IV 1.6L/IV 2.0L, POLO CLASSIC

AOPEC: A0104036123B

Replacing: 0001121006, 020911023F

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Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76mm	1.4KW	27.5mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). TWO PUSH ON TERMINALS FOR SOLENOID

Vehicle Apps: - ENGINE: AAH , ABC , ACK . AUDI 500, A4 2.4L/2.6L/2.8L, A6 2.6L/2.8L, A8 2.8L, S2 2.6L/2.8L. VOLKSWAGEN PASSAT 2.8L V6

AOPEC: A010003692

Replacing: 0001108114, 0001108113, 078911023

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76mm	1.4KW	22mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). TWO EYE TERMINALS FOR SOLENOID; THIS STARTER HAS THICK MOUNTING EARS AND THE MOUNTING HOLES ARE BOTH THREADED

Vehicle Apps: - ENGINE: 184E2 , 184S1 , 194E1 , 194S1 , 206S1/2 , 256S3 , 286S1 , 286S2 . BMW 316i, 318i, 320i, 323i, 325i, 328i, 330i, 518i, 520i, 528i TOURING, 530i, 728i, M3 3.2L, Z3

AOPEC: A018703604R

Replacing: 0001108157, 143869601

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76mm	1.8kW	33.5mm	CCW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION). LONG PERMANENT MAGNET/YOKE HOUSING (135MM)

Vehicle Apps: SEAT - PASSENGER . VOLKSWAGEN GOLF III 1.9L/III 2.8 i VR6, PASSAT 1.9L TD/1.9L TDi/2.8L VR6, VENTO 1.9L SDi/1 9L TD/1.9L TDi/2.8L

AOPEC: A0110419606

Replacing: 0001110076

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76mm	1.4KW	0mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: B52 . VOLVO C70 2.0L/2.3L/2.5L, S70 2.0L/2. 3L/2.5L, S70R 2.3L, V70

AOPEC: A0104036158B

Replacing: 0001108166, 7700103386

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76mm	2.0KW	22mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: BMW 318d, 320d, 325d, 330d, 520d, 525d, 530d, 730d, X3 3.0d, X5 3.0d. OPEL OMEGA 2 5L TD

AOPEC: A0104036163B

Replacing: 0001109025, 12412246570, 12412242703, 12412446570

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76.1mm	1.7KW	22mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: BMW 530i, 540i, 730i, 740i, X5 4.4i/4.6iS

AOPEC: A010019660

Replacing: 0001110072, 0986016920, 12411729981, 12411736921

Complete Starters

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76.3mm	1.2KW	25mm	CW

Desc/Notes: R70-M20. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: BMW 116i, 118i, 120i, 316i, 318i, 320Si, 320i, X3 2.0i, Z4 2.0i

AOPEC: A010419612

Replacing: 0001107426

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	77mm	1.4KW	18mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID - CAN BE USED TO REPLACE 8T HYUNDAI ELANTRA STARTER

Vehicle Apps: - ENGINE: 4G63 . HYUNDAI SONATA 2.0L. MAZDA 626, B1600, B2600. MITSUBISHI COLT 2.0L/2.4L/2.6L

AOPEC: A0104036126, A012503604

Replacing: F004A94009, 9000694010, BW920253, BW920009

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	81.5mm	2.3KW	28mm	CW

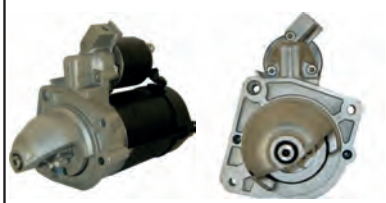
Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 8140 , F1AE , F1CE . IVECO DAILY 2.3L/2.8L/35/40/45/50/65

AOPEC: A018903610BR

Replacing: 0001223003

Manuf/Sys: BOSCH



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	81.4mm	2.3KW	24mm	CW

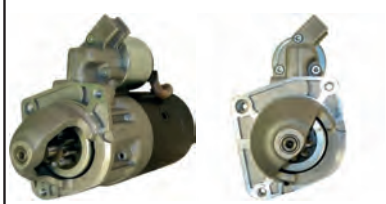
Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 814043 , F1AE . CITROEN JUMPER 2.8L HDi. FIAT DUCATO 2.3L JTD/2.8L JTD/2.8L TD. PEUGEOT BOXER 2.8L HDi

AOPEC: A010019613

Replacing: 0001223013

Manuf/Sys: BOSCH



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	81mm	2.2KW	24mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 8140 . CITROEN JUMPER 2.8L DIESEL/2.8L TD. FIAT DUCATO 2.5L DIESEL. PEUGEOT BOXER 2.5L DIESEL/2.8L DIESEL

AOPEC: A010019650

Replacing: 0001218159

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	0.95KW	20mm	CW

Desc/Notes: EB. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: VOLKSWAGEN GOLF I 1.8L/II 1 8L/III 1.8L, JETTA I 1.6L

AOPEC: A010403688

Replacing: 0001212401, 0001212400, 027911023

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Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	0.8KW	16mm	CW

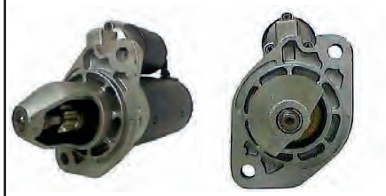
Desc/Notes: EF. DD (DIRECT DRIVE). ONE VERY SMALL AND ONE MEDIUM PUSH ON TERMINAL FOR SOLENOID

Vehicle Apps: AUDI 100, 80. VOLKSWAGEN PASSAT 1 3L/1.5L/1.6L

AOPEC: A018903616

Replacing: 9000692036

Manuf/Sys: BOSCH



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	1.0KW	40mm	CCW

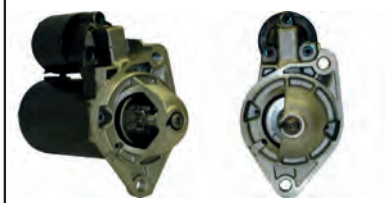
Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: VOLKSWAGEN JETTA 1.8L, KOMBI 1.8L, MICROBUS 1.8 L VOLKSIEBUS

AOPEC: A014003601B

Replacing: 9000695002

Manuf/Sys: BOSCH



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	1.1KW	19mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 18SE , 20SEL , C18XEL , X18XE , X20XEV . DAEWOO NUBIRA 1.4L/1.8L/2.0L. ISUZU KB200 PETROL, KB230 PETROL. OPEL ASTRA 180i, CALIBRA 2.0i

AOPEC: A018803605R

Replacing: 0001107045, F005M00024, 90512189, 90518627, 92066449

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	1.4KW	20mm	CW

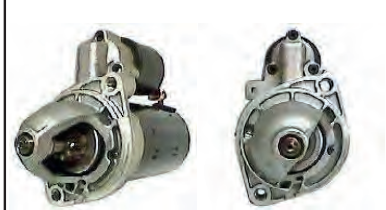
Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 18SE , 20SE , 20XE , 22NE . OPEL ASTRA 1.8 L/2.0L, CALIBRA 2.0L, KADETT 1.8L/2.0L, MONZA 1.8L/2.0L, REKORD 2.0L/2.2L/200i

AOPEC: A010415004

Replacing: 0001108079, 0001107015, 99336462

Manuf/Sys: BOSCH



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	1.1KW	26mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: M102 , M111 , M161 . MERCEDES-BENZ C180, C220, C230, E200, E220, E230, ML230, SPRINTER 2 3L. SSANGYONG KORANDO 2.3L, MUSSO 2.3L

AOPEC: A018703603

Replacing: 0001107037, 0001107072, 0001107096, R001107096

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.5mm	1.8KW	17.5mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: AUDI A4 3.0L, A6 1.9L TDi. LINDE - FORKLIFTS . VOLKSWAGEN PASSAT 1.9L

AOPEC: A0104036122B, A015515001

Replacing: 0001110128, 0001110136, 068911024G, 0001110129

Complete Starters

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	2.3KW	22mm	CW

Desc/Notes: EV. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: B2L , B2M , BF3L , BF3M , BF4L , BF4M , D2011 , F2L , F2M , F3L , F3M , F4L , F4M , TD2011 . BOMAG - INDUSTRIAL . DEUTZ - INDUSTRIAL , - TRUCK/BUS . HAMM - INDUSTRIAL . JCB - FORKLIFTS , - INDUSTRIAL . KHD - INDUSTRIAL , - TRUCK/BUS . VOLVO - EARTHMOVING

AOPEC: A010403623, A010403696

Replacing: 0001223016, 1181751

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	2.0KW	18mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION). CANNOT BE USED TO REPLACE NIPPON DENSO TYPE THAT HAS NO NOSE.

Vehicle Apps: - ENGINE: 1KD , 2KD . TOYOTA FORTUNER 3.0L DIESEL, HIACE 2.5L DIESEL, HILUX 2.5L D4D/3.0L D4D, LAND CRUISER

AOPEC: A0104036101

Replacing: F004A94008, 281000L080, 281000L081

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.7mm	1.2KW	15.8mm	CW

Desc/Notes: R70-M10. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: AUDI A4 1.6L/1 8L T/2.0L/2.0L FSi/2 0L T FSi, A6 1.8L. VOLKSWAGEN PASSAT 1.6L/1.8L/2.0L

AOPEC: A010419619

Replacing: 0001107427, 0001107428, 0986021210, 06B911023A

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	2.5KW	2.3mm	CW

Desc/Notes: R78M55. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 8140 , F1AE . CITROEN JUMPER 2.8L HDi. FIAT DUCATO 2.3L JTD/2.8L JTD. PEUGEOT BOXER 2.8L HDi

AOPEC: A010419604R

Replacing: 0001109300, 5820AQ, 1347058080

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.3mm	2.7KW	20mm	CW

Desc/Notes: JF. DD (DIRECT DRIVE).

Vehicle Apps: AGRIFULL 235, 345

AOPEC: A010019643

Replacing: 0001362021, 0001354067

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.4mm	1.6KW	41.4mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 1D20 , 1D30 , 1D40 . BOMAG - AGRICULTURAL . HATZ - AGRICULTURAL

AOPEC: A017919606B

Replacing: 0001109043, 50353511

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89mm	3.7KW	28mm	CW

Desc/Notes: ID. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: BELL - EARTHMOVING . DEUTZ - INDUSTRIAL , - TRUCK/BUS

AOPEC: A0110419607

Replacing: 0001365004

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	96.5mm	1.0KW	14.5mm	CW

Desc/Notes: GF. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: FORD CAPRI, GRANADA 3.0L TURNIER, V6 3.0L ESSEX. MAZDA V6 3.0L

AOPEC: A0104036119B

Replacing: 0001311047, 73GB11000AA, 73GX11000AA

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	99mm		19mm	CW

Desc/Notes: R78-M10. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: TATA XENON 3.0L DIESEL

AOPEC: A010419635, A0198019601

Replacing: F002G20550

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	109.5mm	3.5KW	26mm	CW

Desc/Notes: JD. DD (DIRECT DRIVE).

Vehicle Apps: FIAT - AGRICULTURAL . IVECO - TRUCK/BUS

AOPEC: A 015115002

Replacing: 0001359102, 4703751, 4169096

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	110mm	2.2KW	28mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 8140 , 8149 . IVECO DAILY 2.4L/2 5L/2.8L

AOPEC: A0104036112B, A010403625R

Replacing: 0001218174, 99451753

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	59.8mm	1.7KW	26mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: MERCEDES-BENZ C43 AMG, CL600, CL65, CLK430, CLK500, SL55, SL65, SLK55 AMG. STEYR - LDV/VAN/MPV/4X4/PICK-UP

AOPEC: A0104036167B

Replacing: 0001115005, 1121510001

Complete Starters

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.4mm	2.0KW	20.7mm	CW

Desc/Notes: JF. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: OM615 , OM616 , OM617 . MERCEDES-BENZ 200D, 220D, 240D, 300D, UNIMOG

AOPEC: A015519601

Replacing: 0001362029, 0001362030

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	88.8mm	3.0KW	49mm	CW

Desc/Notes: IF. DD (DIRECT DRIVE).

Vehicle Apps: ADE - TRUCK/BUS . DEUTZ - TRUCK/BUS . KHD - INDUSTRIAL . MERCEDES-BENZ 5.7L TRUCK/AGRICULTURAL, UNIMOG. SAMIL 50

AOPEC: A012819622

Replacing: 0001367039, 12270774, 0031511401

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89mm	2.7KW	28mm	CW

Desc/Notes: IF. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: BF4L , BF6L , F3L , F4L , F5L , F6L . ADE - TRUCK/BUS . DEUTZ - TRUCK/BUS . INTERNATIONAL HARVESTER - AGRICULTURAL . IVECO - TRUCK/BUS . MASSEY FERGUSON - AGRICULTURAL . MERCEDES-BENZ - TRUCK/BUS

AOPEC: A010403612, A010403612B, A018803604

Replacing: 0001362305, 081382305

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89mm	3.0KW	48mm	CW

Desc/Notes: KG;BNG. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: MB852 , MB853 , MB862 , MB863 , OM352 , OM353 . DEUTZ - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS

AOPEC: A0104036102

Replacing: 0001401049, BNG412V, 0001401011, 081490034

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89mm	3.0KW	48mm	CW

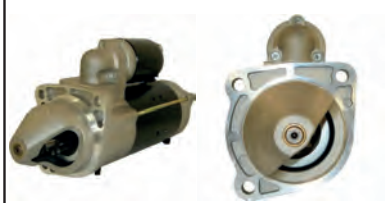
Desc/Notes: JF. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 352 , ADE , OM314 , OM352 , OM366 . ADE - TRUCK/BUS . HINO - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS . TOYOTA - TRUCK/BUS

AOPEC: A010403668

Replacing: 0001367059, 0001367034, 0001367303, 081387034

Manuf/Sys: BOSCH



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89mm	3.0KW	27mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: BF3L , BF4L , BF4M , BF6L , BF6M , D914 , F5L , TCD914 . ADE - TRUCK/BUS . BELL - EARTHMOVING , B20B. DEUTZ - INDUSTRIAL

AOPEC: A010003652BR, A010415008B

Replacing: 0001230006, 1180928

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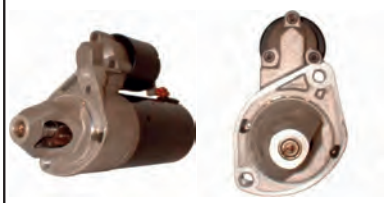
Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	60mm	1.7KW	28mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH-ON AND EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: MERCEDES-BENZ C240, C280, C320, CLK320, CLK430, E280, E320, SLK320

AOPEC: A0104036151

Replacing: 0001115006, 0051510101

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	65.7mm	1.4KW	-4mm	CW

Desc/Notes: R70L25. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: CITROEN BERLINGO 1.9L DIESEL/2.0L HDi, JUMPY 1.9L DIESEL, XSARA 2.0L HDi. PEUGEOT 206 1 9L DIESEL, 306 1.9L DIESEL, EXPERT 1.9L DIESEL, PARTNER 1.9L DIESEL. SUZUKI GRAND VITARA 2.0L TD

AOPEC: A010019658

Replacing: 0001108400, 96253825, 1342792080

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	75.8mm	1.1KW	63.7mm	CCW

Desc/Notes: RF70-M25 12V. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: AUDI A3 1.6L/2 0L, S3 2.0L. VOLKSWAGEN GOLF V 1.6 L/V 2.0L, JETTA 1.6L/2.0L, PASSAT 1.6L/2.0L, TOURAN 1.6L/2.0L

AOPEC: A010419623

Replacing: 0001121402, 02M911023G

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	75.9mm	2.0KW	29.4mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: AUDI A4 2.5L TDi, A6 2.5L TDi, A8 2.5L TDi. VOLKSWAGEN PASSAT 2.5L TDi

AOPEC: A010019621

Replacing: 0001109021, 059911023H

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	75.8mm	1.1KW	53.7mm	CCW

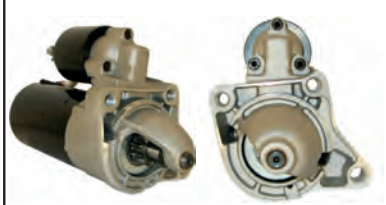
Desc/Notes: RF70-M25 12V. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: BHY , BJX , CLNA . AUDI A3 1.8L TFSi/2.0L TFSi. VOLKSWAGEN GOLF V 2.0L FSi, POLO 1.6L TDi/1.8i, TOURAN 1.4 L TSi/2.0L FSi, TRANSPORTER T5 2.0L

AOPEC: A010419608R

Replacing: 0001121408, 0001121409, 02Z911023E, 02Z911023G

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.1KW	15mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: CHV , PTE , ZETEC . FORD ESCORT 1.4L/1. 6L/1.8L, MONDEO 1.6L/1.8L/2.0L

AOPEC: A010419606, A010419615

Replacing: 0001107016, 93BB11000CB, 93BB11000CA

Complete Starters

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	2.0KW	52mm	CCW

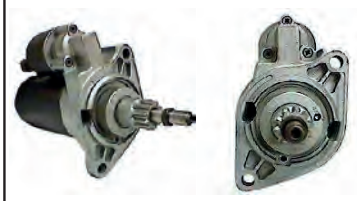
Desc/Notes: DB. PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: AUDI A3 1.9L TDi. VOLKSWAGEN BEETLE 1.9L TDi, GOLF III/IV 1.9L TDi, JETTA 1.9L TDi, PASSAT 1.9L TDi, POLO 1.9L TDi

AOPEC: A010003685B

Replacing: 0001125012, 0001125013, 02A911023R, 0001125042

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.7KW	55mm	CCW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: VOLKSWAGEN GOLF III 2.8i VR6, JETTA 2.8L VR6, PASSAT 2.8L VR6, SHARAN 2.8L VR6

AOPEC: A0104036137B

Replacing: 0001110086, 0001110087, 024911023H

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.0KW	52.8mm	CCW

Desc/Notes: RF70-S25 12V. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: AUDI A3 1.6L. VOLKSWAGEN GOLF V 1.4L/V 1.6L/VI 1.4 L, JETTA 1.6L FSi, POLO 1.4L/1.6L

AOPEC: A010419602

Replacing: 0001120406, 0001120407, 02T911023R

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	2.0KW	65mm	CCW

Desc/Notes: DB. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: AUDI S3 1.8L/1 8L QUATTRO. VOLKSWAGEN GOLF IV 1.8L/IV 1.9L TDi/IV 2.3L/IV 2.8L/IV 3.2L, SHARAN 1.9L TDi

AOPEC: A018903608B

Replacing: 0001125018, 0001125019, 0001125048, 02M911023A

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.1KW	14mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). FOR FORD ROTARY CAM VEHICLES (ROCAM)

Vehicle Apps: - ENGINE: ROCAM . FORD BANTAM, FIESTA 1.3L, IKON, KA 1.3L/1.6L

AOPEC: A0104036116

Replacing: 0001107410, 2S6U11000DA, 4S6911000AA, 0001107418, F004A94418

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.4KW	18mm	CCW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: KOELN . FORD RANGER 4.0L V6

AOPEC: A018903620, A018903620B

Replacing: F004A94001, 3M3411000BB

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Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.7KW	62.2mm	CCW

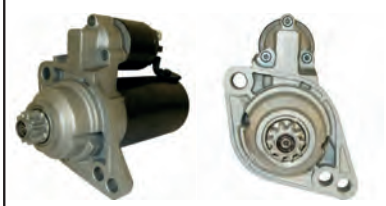
Desc/Notes: RF74-E25 12V. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: AUDI A3 2.0L TDi/3.2L. VOLKSWAGEN GOLF V 1.9L TDi/V 2.0L TDi/V 3.2L, JETTA V 2.0L TDi, MULTIVAN 3.2L, POLO 1.9L TDi, TOURAN 2.0L TDi, TRANSPORTER 3.2L

AOPEC: A0104036130B

Replacing: 0001123014, 0001123015

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.7KW	55mm	CCW

Desc/Notes: RF74-E25. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: ATD , BKC , BNV , BXE . AUDI A3 1 9L TDi. SEAT ALTEA 1.9L TDi, IBIZA 1.4L TDi/1.9L TDi, LEON 1.9L TDi. VOLKSWAGEN CADDY 1.9L TDi, GOLF V 1.9L TDi, JETTA 1.9L TDi, POLO 1.4L TDi/1.9L TDi, TOURAN 1.9L TDi, TRANSPORTER 1.9L TDi

AOPEC: A010003689B

Replacing: 0001123012, 0001123013, 02Z911023F, 02Z911023FX

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.1KW	4mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: FORD RANGER 4.0L V6 MANUAL

AOPEC: A0104036121

Replacing: F004A94000, 3M3411000AB

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82mm	3.1KW	36mm	CW

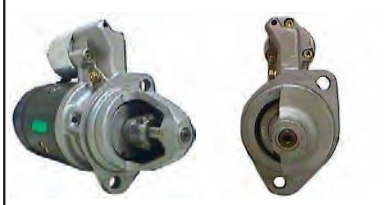
Desc/Notes: JF. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: JOHN DEERE - AGRICULTURAL . MERCEDES-BENZ - TRUCK/BUS . VOLVO - TRUCK/BUS

AOPEC: A0104036105

Replacing: 0001369001

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82mm	1.5KW	41mm	CW

Desc/Notes: GF. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID - 10T "BIG"

Vehicle Apps: - ENGINE: 1D60 , 1D80 . HATZ - INDUSTRIAL . LOMBARDINI - INDUSTRIAL

AOPEC: A0104036144B

Replacing: 0001314047

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82mm	2.0KW	26mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). TWO PUSH ON TERMINALS FOR SOLENOID - BOTH MOUNTING HOLES THREADED

Vehicle Apps: - ENGINE: M104 . MERCEDES-BENZ 280E, 300SEL, 320E, C280, E280, E320, S280, SL280, SL320, SPRINTER 2.9L DIESEL

AOPEC: A0104036107, A010403698

Replacing: 0001109014, 0001109036, 0041519201

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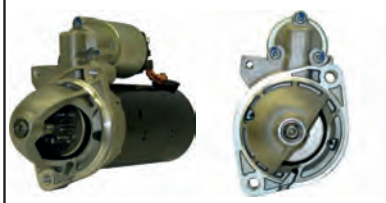
Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82mm	2.2KW	26.5mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: OM611 , OM612 , OM613 , OM646 , OM647 , OM648 . MERCEDES-BENZ C200CDi, C220CDi, C270CDi, E220CDi, E270CDi, E280CDi, E320CDi, ML270CDi, SPRINTER 2.1L/2.2L/2.3L/2.9L

AOPEC: A010003658, A010403695

Replacing: 0001109250, 0051516601

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82mm	1.8KW	23.4mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: FIAT PALIO 1.7L TD/1.7L TDS, PUNTO 1.7L TD, SIENA 1.7L TD, STRADA 1.7L TD, UNO 1.7D

AOPEC: A0104036149B

Replacing: 0001109018, 0001110025, 0001110092, 0001110102, 0001110124

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	92mm	3.1KW	21mm	CW

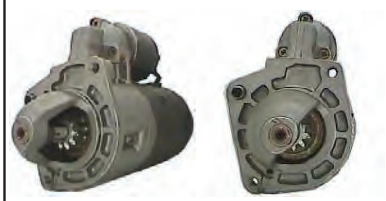
Desc/Notes: IF. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: FORD - AGRICULTURAL , 5000, 6600

AOPEC: A0104036132B, A0110419603

Replacing: 0001369023, 82005342, 82013922

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	64mm	0.8KW	10mm	CW

Desc/Notes: EF. DD (DIRECT DRIVE). ONE PUSH ONE TERMINAL AND ONE EYE TERMINAL FOR SOLENOID

Vehicle Apps: - ENGINE: 146A , 146C . FIAT UNO 1.4L TURBO/1400/BEAT/PACER/TEMPO/TURBO

AOPEC: A0104036161

Replacing: 0001211246, 44703770

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	73.9mm	1.1KW	16.8mm	CW

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 1ZZFE , 3ZZFE , 4ZZFE . TOYOTA AVENSIS 1.6i 16V/1.8i 16V, COROLLA 1.4L 16V/1.6L 16V, RUNX

AOPEC: A0104036165B

Replacing: 9001107088, 281000D110, 0001107088, 281000D030

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	75mm	1.4kW	28mm	CW

Desc/Notes: R74L45. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: Z22SE . OPEL ASTRA 2 2L 16V, VECTRA 2.2i 16V, ZAFIRA 2.2i 16V

AOPEC: A010019627

Replacing: 0001108236, 93175890

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	81.4mm		16.3mm	CW

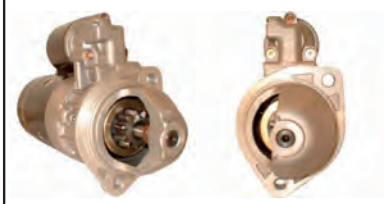
Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: WL-T . FORD RANGER 2.5L TD 4X4. MAZDA DRIFTER 2.5L TD

AOPEC: A012503601

Replacing: F004A94002, 4M3411000CA, R004A94002

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	82mm	2.2KW	23mm	CW

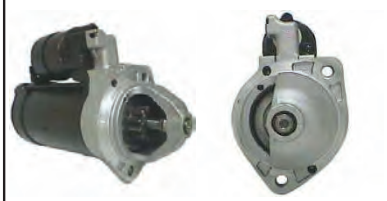
Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: BF4L , F2L , F3L , F4L . DEUTZ - EARTHMOVING , - INDUSTRIAL . KHD - EARTHMOVING , - INDUSTRIAL . MANITOU AS90

AOPEC: A010403693

Replacing: 0001218172, 1180180, 069911023F

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	82mm	2.3KW	23.5mm	CW

Desc/Notes: EV. PMGR (PERMANENT MAGNET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: BF4L , F2L , F3L , F4L . DEUTZ - INDUSTRIAL . KHD - INDUSTRIAL . MANITOU - EARTHMOVING

AOPEC: A0104036141

Replacing: 0001223002, 01180995KZ, 1180995, 01180995

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	82.4mm	1.8KW	18mm	CW

Desc/Notes: JD. DD (DIRECT DRIVE).

Vehicle Apps: CLARK - FORKLIFTS . HATZ - INDUSTRIAL . KHD - INDUSTRIAL . LOMBARDINI - INDUSTRIAL

AOPEC: A0104036173B

Replacing: 0001354108, 40000700

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	82.4mm	3.0KW	21.4mm	CW

Desc/Notes: JD. DD (DIRECT DRIVE).

Vehicle Apps: LAMBORGHINI - AGRICULTURAL . PALMIERI - AGRICULTURAL . SAME - AGRICULTURAL . STEYR - AGRICULTURAL

AOPEC: A0104036143B

Replacing: 0001359108, 0001362035, 0001362022

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	89mm	3.0KW	48mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: JOHN DEERE - AGRICULTURAL , TRACTORS

AOPEC: A0104036117B

Replacing: 0001230002, RE503226

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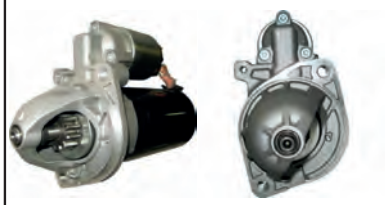
Manuf/Sys: BOSCH



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	82.4mm	1.7KW	25.4mm	CW

Desc/Notes: R74-E25. PMGR (PERMANENT MAGNET - GEAR REDUCTION);PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: OM646 . MERCEDES-BENZ 220CDi, C200CDi, C220CDi, CLC200CDi, CLC220CDi, E200CDi, E220CDi, E220TCDi, SPRINTER

AOPEC: A015519600

Replacing: 0001115047, 0001115048

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	88.9mm	2.0KW	19.6mm	CW

Desc/Notes: R78M28. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4HU , 4HV , QVFA , TD4 . CITROEN JUMPER 2.2L HDi. FIAT DUCATO 2.2L JTD. FORD TRANSIT 2.2L TDCi/2.4L TDCi. LAND ROVER DEFENDER 110 2.2L TD/110 2.4L TD/130 2.2L TD/130 2.4 L TD/90 2.2L TD/90 2.4L TD. PEUGEOT BOXER 2.2L HDi

AOPEC: A010419627

Replacing: 0001109205, 0001109324

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	74mm	5.5KW	36mm	CW

Desc/Notes: KB. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: MAN - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS

AOPEC: A010403658B

Replacing: 0001410041

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	88.8mm	4.0KW	29mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: DEUTZ - INDUSTRIAL . KHD - INDUSTRIAL . MANITOU - EARTHMOVING

AOPEC: A010403655

Replacing: 0001231005, 01180999KZ

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	88.8mm	4.0KW	49mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: OM356 , OM357 , OM366 . MERCEDES-BENZ - TRUCK/BUS , UNIMOG

AOPEC: A0104036148

Replacing: 0001231003, A0041518601, 0041518601

Manuf/Sys: BOSCH

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	88.8mm	4.0KW	48mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: OM906 , OM909 , OM924 , OM926 . BELL 906. MERCEDES-BENZ ATEGO, CITARO, CITO

AOPEC: A010403607B, A010403699B

Replacing: 0001231002, 0051512001, 0041518401, 081495002

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Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	88.8mm	6.6KW	48mm	CW

Desc/Notes: KB. DD (DIRECT DRIVE).

Vehicle Apps: SAMIL 100. VOLVO - TRUCK/BUS

AOPEC: A010003604

Replacing: 0001417002, 4778060

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	89mm	4.0KW	48mm	CW

Desc/Notes: JF. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 352 , 352T , 366 , ADE , OM357 , OM366 . ADE - TRUCK/BUS . HINO - TRUCK/BUS . ISUZU - TRUCK/BUS . MAN - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS . MITSUBISHI - TRUCK/BUS . TOYOTA - TRUCK/BUS

AOPEC: A010403669, A010403669B, A018803602R

Replacing: 0001368055, 0001368309

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	89mm	4.0KW	28mm	CW

Desc/Notes: IF. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: BF4L , BF6L , F3L , F4L , F5L , F6L . ADE - TRUCK/BUS . BELL - EARTHMOVING . DEUTZ - TRUCK/BUS

AOPEC: A010403624R, A018803603R

Replacing: 0001368001, 081388001

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	89mm	4.0KW	38mm	CW

Desc/Notes: IF. DD (DIRECT DRIVE).

Vehicle Apps: DAF - TRUCK/BUS , 45.130

AOPEC: A011003667

Replacing: 0001368083, 1201327

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	92mm	5.4KW	48mm	CW

Desc/Notes: KB. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - KB SHORT

Vehicle Apps: - ENGINE: 352 , ADE , OM422 , OM441 , OM442 . ADE - TRUCK/BUS , 407, 422. DEUTZ - EARTHMOVING . HINO - TRUCK/BUS . ISUZU - TRUCK/BUS . MAN - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS . NISSAN - TRUCK/BUS . TOYOTA - TRUCK/BUS

AOPEC: A0104036113, A010403649R,

Replacing: 0001416002, 0001415001, 081466002

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	92mm	6.6KW	48mm	CW

Desc/Notes: KB. DD (DIRECT DRIVE). KB MEDIUM

Vehicle Apps: - ENGINE: ADE442T , D2566 , D2840 , D2865 , D2866 , OM407 , OM421 , OM422 , OM423 . ADE - TRUCK/BUS . HINO - TRUCK/BUS , SS55-330 15.0L, SS55-350 15.0L. MAN - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS . RENAULT - TRUCK/BUS

AOPEC: A010403652B

Replacing: 0001417001, 51262017110, 0031514601, 0041516101, 5000816041

Complete Starters

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	88.8mm	4.0KW	49mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: IVECO EUROCARGO

AOPEC: A0104036146

Replacing: 0001231016, 4892338

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	88.6mm	4.0KW	28mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: MAN - TRUCK/BUS , L2000, M2000

AOPEC: A0104036124

Replacing: 0001231008

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	88.5mm	4.0KW	28.6mm	CW

Desc/Notes: IF. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: 4248 , 6354 , DF615 . DAF - TRUCK/BUS . HANOMAG - EARTHMOVING . IVECO - TRUCK/BUS . MASSEY FERGUSON - AGRICULTURAL . PERKINS - AGRICULTURAL , - EARTHMOVING

AOPEC: A010019617

Replacing: 0001368026, 0001368040, 0001368051, 0001368065, 0001368085

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	88.8mm	4.0KW	28.4mm	CW

Desc/Notes: IF. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: D0226 , D0824 , D0826 . MAN - TRUCK/BUS , L2000, M2000

AOPEC: A011003669

Replacing: 0001368081, 0001368016

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	88.4mm	4.0KW	25mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: CE136C , CE162C , CE184C , GR165 , GR184 , GR210 . DAF CF65

AOPEC: A010419621

Replacing: 0001231017, 1387383, AELD021

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	82mm	4.0KW	23mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: BF4L , F2L , F3L , F4L . DEUTZ - INDUSTRIAL . KHD - INDUSTRIAL

AOPEC: A0104036157B

Replacing: 0001231006, 1181101

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Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	88.6mm	6.6KW	48mm	CW

Desc/Notes: KB. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: F6L . DEUTZ - INDUSTRIAL , - TRUCK/BUS . FORD CARGO

AOPEC: A010419600

Replacing: 0001417025, 6114855, 82DB10300BB, 82DB11000BB, 1174649

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	88.6mm	4.0KW	28mm	CCW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: D0824 , D0826 , D0836 . MAN - TRUCK/BUS , L2000, M2000

AOPEC: A0104036106B, A010436106B

Replacing: 0001231007, 51262017157

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	88.8mm	5.5KW	48mm	CW

Desc/Notes: HEF95-L. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: POWERSTAR - TRUCK/BUS , 26-280. WEICHAI POWERSTAR 26-280

AOPEC: A010003648R, A0104036104B

Replacing: 0001241008, 612600090293, D612600090293, WD61509QD

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	88.8mm	4.0KW	49.8mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: D6B . VOLVO FL6

AOPEC: A010419625

Replacing: 0001231014

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	88.7mm	6.0KW	48mm	CW

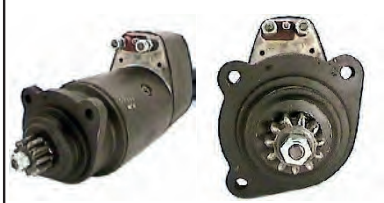
Desc/Notes: HEF95L. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: DE12T . TATA NOVUS 3434 V6 DIESEL

AOPEC: A016003601

Replacing:

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	89mm	5.4KW	48mm	CW

Desc/Notes: KB. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - KB SHORT

Vehicle Apps: - ENGINE: DH10A . DEUTZ - TRUCK/BUS . MAN - TRUCK/BUS . SCANIA - TRUCK/BUS . VOLVO - TRUCK/BUS , A35, B10M, B10R, FH12

AOPEC: A010403611, A010403648

Replacing: 0001416009, 081466009

Complete Starters

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	89mm	9.0KW	48mm	CW

Desc/Notes: QB. DD (DIRECT DRIVE). DRIVE END BRACKET CAN BE ROTATED TO SUIT APPLICATION

Vehicle Apps: DEUTZ - TRUCK/BUS . LIEBHERR 974. SAMIL - TRUCK/BUS . VOLVO - TRUCK/BUS

AOPEC: A010403650B

Replacing: 0001510017

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	89mm	5.5KW	48mm	CW

Desc/Notes: KB. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: BELL 513. DEUTZ - INDUSTRIAL , - TRUCK/BUS . SAMIL 100, 50

AOPEC: A010419613

Replacing: 0001410109, 0001416035

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	89mm	4.0KW	28.8mm	CW

Desc/Notes: HE95M. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: MAN TGA, TGL, TGM

AOPEC: A010436107, A010436107B

Replacing: 0001231034, 51262017222

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	91.6mm	6.2KW	48mm	CW

Desc/Notes: IE. DD (DIRECT DRIVE). CANNOT BE USED TO REPLACE 0001372001 (STR1191)

Vehicle Apps: - ENGINE: OM541 , OM542 . MERCEDES-BENZ ACTROS, AXOR, TRAVEGO

AOPEC: A011003659B

Replacing: 0001372006, A0051515001, 0051515001

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	91.5mm	6.7kw	36mm	CW

Desc/Notes: IE. DD (DIRECT DRIVE).

Vehicle Apps: SCANIA P-SERIES, R-SERIES, T-SERIES

AOPEC: A011003660B, A011003660R

Replacing: 0001371008, 1382290, 571464

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	6.2KW	48mm	CW

Desc/Notes: JE. DD (DIRECT DRIVE). CANNOT BE USED TO REPLACE 0001372006 (STR1251)

Vehicle Apps: - ENGINE: OM541 , OM542 . BELL B40. MERCEDES-BENZ ACTROS, TRAVEGO

AOPEC: A010403601, A010403605

Replacing: 0001372001, A0031519401, 0041519401, 0041518801, 081392001

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Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	6.7KW	48mm	CW

Desc/Notes: IE. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: DC11 , DC12 , DC16 , DI12 , DSC12 , DSC9 , DSI12 , DT12 . SCANIA - TRUCK/BUS , K-SERIES, P-SERIES, R-SERIES, T-SERIES

AOPEC: A011003662B

Replacing: 0001371006, 1357709, 081391006

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	8.4KW	47.4mm	CW

Desc/Notes: HEP109MP. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: MTU - INDUSTRIAL

AOPEC: A010419631

Replacing: 0001340501

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	6.0KW	43mm	CW

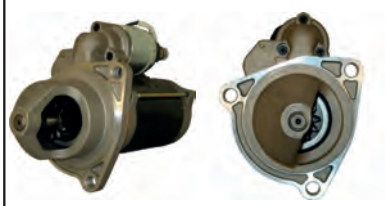
Desc/Notes: HEF109M. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: LIEBHERR R964C, R974C, R984C

AOPEC: A010419629B, A015919600

Replacing: 0001330013

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	109.5mm	4.0KW	48mm	CW

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: PE183 , PE228 , PE265 . DAF - TRUCK/BUS , 45, 75

AOPEC: A0104036135B

Replacing: 0001231013, 1346162

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	109.8mm	6.2KW	48mm	CW

Desc/Notes: IE. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: XF355M . DAF - TRUCK/BUS , 95XF, CF85

AOPEC: A010019639

Replacing: 0001371010, 0001372002, 0001372007, 1317220, 1318615

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	109.8mm	6.2KW	48mm	CW

Desc/Notes: IE. DD (DIRECT DRIVE).

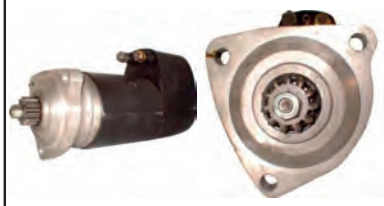
Vehicle Apps: DAF - TRUCK/BUS , CF85

AOPEC: A011003656

Replacing: 0001372003, 0001372008, 1284775

Complete Starters

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	115mm	5.5KW	41mm	CW

Desc/Notes: KB. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 6BB1 . ISUZU JCR, SBR, SCR

AOPEC: A010403644R

Replacing: 1811001891R, 0230001030R, 0230001301R, 0230003010R

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	91.5mm	6.6KW	48mm	CW

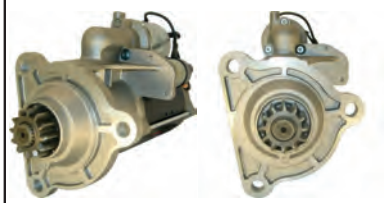
Desc/Notes: KB. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: D12A , D12B , D12C , D12D . VOLVO - TRUCK/BUS , B12, FH12, FM12, NH12

AOPEC: A010003613

Replacing: 0001417075, 1547049, 3095060, 3964839

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	91.6mm	5.5KW	48mm	CW

Desc/Notes: HEF95L24. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: D2876 . MAN TGA

AOPEC: A010003681, A0104036151BR

Replacing: 0001241005, 0001241009, 0001241021, 51261017220, 51262017220

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	91.5mm	5.5KW	47.3mm	CW

Desc/Notes: HEF95L24. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: SCANIA - TRUCK/BUS , P-SERIES, R-SERIES, T-SERIES

AOPEC: A0104036162B

Replacing: 0001241001, 1447911

Manuf/Sys: **BOSCH**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	91.8mm	6.0KW	48mm	CW

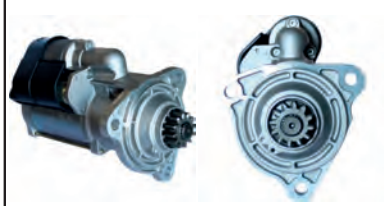
Desc/Notes: GVB. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: DC16 . SCANIA - TRUCK/BUS

AOPEC: A010019602

Replacing: 0001330008, 1447912

Manuf/Sys: **BOSCH**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	110mm	5.5KW	47.5mm	CW

Desc/Notes: HEF95L. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: XE280C , XE315C , XE355C . DAF - TRUCK/BUS

AOPEC: A011003683

Replacing: 0001241003, 1604246

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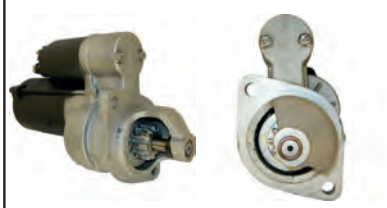
Manuf/Sys: CHINESE MANUF



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	81.5mm	4.5KW	24mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: CHINESE MACHINES - INDUSTRIAL

AOPEC: A010019653

Replacing: CA0233708010

Manuf/Sys: DAEWOO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	20	None	1.4KW	65mm	CCW

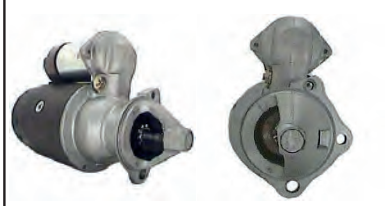
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: KIA CARNIVAL 2.5L

AOPEC: A010019600, A015419603

Replacing: 111916, OK9BV18400A

Manuf/Sys: DELCO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76mm		3mm	CW

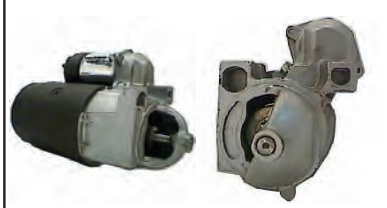
Desc/Notes: 10MT/SD300. DD (DIRECT DRIVE). SMALL NOSE/3-HOLE/CW-ROTATION

Vehicle Apps: - ENGINE: 283 , 292 , 307 . CHEVROLET V8

AOPEC: A011003685

Replacing: 410011, 1107233, 1108385

Manuf/Sys: DELCO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	80.8mm		5.34mm	CW

Desc/Notes: 10MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - GENERALLY FOUND ON 6-CYLINDERS IN SOUTH AFRICAN MARKET

Vehicle Apps: - ENGINE: 153 , 194 , 230 . CHEVROLET V6, V8. CHRYSLER JEEP 2.5L/2 5L CJ/2.5L SCRAMBLER

AOPEC: A011019601

Replacing: 410013, 2A0003A, 1107237, 1107248, 1107259

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.5mm		7mm	CW

Desc/Notes: 5MT/SD200. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 305 . CHEVROLET V8

AOPEC: A014003604

Replacing: 410014, 1109528, 1985737

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89mm	0.8KW	24.8mm	CW

Desc/Notes: DD (DIRECT DRIVE). KOREAN DELCO | REPLACES HITACHI S114202,S114202A

Vehicle Apps: - ENGINE: G161 , G180 , G180Z . CHEVROLET LUV. ISUZU KB230 PETROL

AOPEC: A015619600

Replacing: 12321234, 94204438, 94241705, 8942044381, 8942417050

Complete Starters

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82mm	2.9KW	33mm	CW

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: BOBCAT - EARTHMOVING . CLARK - AGRICULTURAL . JOHN DEERE - AGRICULTURAL

AOPEC: A011003693B

Replacing: 10461443, 10461473, 10479628, 10479630, 1113271

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	88.7mm	2.9KW	46.8mm	CW

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: HYSTER - FORKLIFTS

AOPEC: A011103620

Replacing: 10465045, 10465046, 1113275, 1113278

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	88.8mm		48mm	CW

Desc/Notes: 22MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - WET CLUTCH APPLICATIONS

Vehicle Apps: CLARK - FORKLIFTS . HYSTER - FORKLIFTS , TK-SERIES FORKLIFTS

AOPEC: A011115001B

Replacing: 1107582, 71490, 1107557

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	88.8mm	2.9KW	20mm	CW

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION). WET CLUTCH

Vehicle Apps: BOBCAT - EARTHMOVING . CLARK - FORKLIFTS . HYSTER - FORKLIFTS . PERKINS - INDUSTRIAL

AOPEC: A011103602B

Replacing: 1113288, 10461484, 0230002000, 1109540

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	88.8mm	2.9KW	46mm	CW

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID - WET CLUTCH APPLICATIONS

Vehicle Apps: - ENGINE: 6BT . CUMMINS - EARTHMOVING , - INDUSTRIAL , - TRUCK/BUS

AOPEC: A011103617B

Replacing: 10461285, 10465211, 1113292, 3604654RX

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	88.5mm	3.3KW	46.5mm	CW

Desc/Notes: 29MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: CUMMINS - TRUCK/BUS

AOPEC: A011003690

Replacing: 10461770, 19011400

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	89mm	2.9KW	46mm	CW

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID - WITH SEAL FOR WET CLUTCH APPLICATIONS

Vehicle Apps: - ENGINE: 6354 . BOBCAT - EARTHMOVING . CLARK - FORKLIFTS . HYSTER - FORKLIFTS . INTERNATIONAL HARVESTER - AGRICULTURAL . MASSEY FERGUSON - AGRICULTURAL . NEW HOLLAND - EARTHMOVING . PERKINS - AGRICULTURAL

AOPEC: A011103621

Replacing: 1113290, 0230002010

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	92mm	4.6KW	49mm	CW

Desc/Notes: 37MT. DD (DIRECT DRIVE). NORMALLY HAS GROUND STUD ON FIELD COIL HOUSING - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CHEVROLET - TRUCK/BUS . FORD - TRUCK/BUS . GM - TRUCK/BUS

AOPEC: A1990308B

Replacing: 10461044, 1993738, 323818, 1993759, 1993850

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	92mm	4.6KW	48mm	CW

Desc/Notes: 37MT. DD (DIRECT DRIVE). NORMALLY HAS GROUND STUD ON FIELD COIL HOUSING - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CHEVROLET - TRUCK/BUS . FORD - TRUCK/BUS . GM - TRUCK/BUS

AOPEC: A1990308B

Replacing: 1990308, 10461044, 1993738, 323818, 1993759

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	68mm	1.4kW	9.8mm	CW

Desc/Notes: PG260L. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: COBRA - MARINE . MERCURY - MARINE . VOLVO - MARINE . YAMAHA - MARINE

AOPEC: A010019605

Replacing: 9000762, 9000768, 9000789, 9000819, 9000821

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	90mm	7.3KW	48mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION). WITH OCP (OVER-CRANK PROTECTION) AND IMS (INTEGRAL MAGNETIC SWITCH)

Vehicle Apps: - ENGINE: ISM , ISX . CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . KENWORTH - TRUCK/BUS . PETERBILT - TRUCK/BUS

AOPEC: A011003689

Replacing: 8200050, 8200090

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	91.8mm		48mm	CW

Desc/Notes: 40MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: INGERSOLL RAND - INDUSTRIAL . INTERNATIONAL EAGLE

AOPEC: A011103612B

Replacing: 1114055, 1114098, 1114119, 1114889

Complete Starters

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	91.6mm	7.3KW	48mm	CW

Desc/Notes: 42MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . FORD - TRUCK/BUS . INGERSOLL RAND - INDUSTRIAL . INTERNATIONAL EAGLE. MACK - TRUCK/BUS

AOPEC: A010003656BR, A011103604R

Replacing: 10478809, 1990396, 1990450, 1990458, F1HT11001AA

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	91.8mm	7.3KW	47.5mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: FREIGHTLINER - TRUCK/BUS . VOLVO - TRUCK/BUS

AOPEC: A011103654, A011103654B

Replacing: 8200033, 8200040, 10461753, 19011506, 19011518

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	92mm	7.3KW	46mm	CW

Desc/Notes: 42MT. DD (DIRECT DRIVE). WITH OCP (OVER-CRANK PROTECTION) - DRIVE END BRACKET CAN BE ROTATED TO SUIT DIFFERENT APPLICATIONS

Vehicle Apps: INTERNATIONAL - TRUCK/BUS . MACK - TRUCK/BUS

AOPEC: A011103614B

Replacing: 10461055

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	92mm	7.3KW	48mm	CW

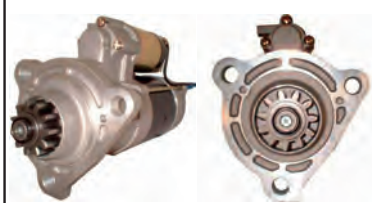
Desc/Notes: 42MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . FORD - TRUCK/BUS . INGERSOLL RAND - INDUSTRIAL . INTERNATIONAL EAGLE. MACK - TRUCK/BUS

AOPEC: A011103611

Replacing: 10461052, 1990337, 1990420, 10461038, 8L8206

Manuf/Sys: DELCO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	92mm	7.3KW	48mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: FREIGHTLINER - TRUCK/BUS . MACK - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS . VOLVO - TRUCK/BUS

AOPEC: A010003682, A012503641B

Replacing: 19011500, 10461334, M9T70379, M009T70379

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	89mm	2.9KW	46mm	CW

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION). DRY CLUTCH - EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: BOBCAT - EARTHMOVING . FORD - AGRICULTURAL . HYSTER - FORKLIFTS . LISTER-PETTER - EARTHMOVING . NEW HOLLAND - AGRICULTURAL . PERKINS - AGRICULTURAL

AOPEC: A011103659

Replacing: 1113273, 10465058, 323451

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	91.8mm	4.6KW	48mm	CW

Desc/Notes: 37MT. DD (DIRECT DRIVE). DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CUMMINS - EARTHMOVING

AOPEC: A011103609DR

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	92mm	7.3KW	48mm	CW

Desc/Notes: 42MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: INTERNATIONAL EAGLE

AOPEC: A011103665DR

Replacing: 1990379, 1993795, 1993806, 19933795

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	92mm	7.3KW	46mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION). DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CUMMINS - TRUCK/BUS

AOPEC: A011003688B

Replacing: 8200433

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	89mm	4.5KW	47mm	CW

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: OM357 , OM900 , OM902 , OM904 , OM906 , OM907 , OM909 , OM924 , OM926 . BELL - EARTHMOVING . MERCEDES-BENZ ATEGO, CITARO, ECONIC, VARIO

AOPEC: A012903626

Replacing: 10479626, 10461470, 0041518401, 0051512001

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	89mm	4.0KW	48mm	CW

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: MERCEDES-BENZ - TRUCK/BUS

AOPEC: A011015001

Replacing: 10479662, 10479652, A0051518501, 0051518501

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	89mm	4.0KW	45.2mm	CW

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION). DRY CLUTCH (NOT OIL SEALED)

Vehicle Apps: - ENGINE: 4B , 6B , 6BT . CONSOLIDATED DIESEL - INDUSTRIAL . CUMMINS - INDUSTRIAL , - MARINE , - TRUCK/BUS . MACK - TRUCK/BUS . SAMSUNG - EARTHMOVING

AOPEC: A018903619B

Replacing: 1113277, 10461468, 0230002030, 0230002470

Complete Starters

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	89mm	4.0KW	45.2mm	CW

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION). WET CLUTCH (OIL SEALED)

Vehicle Apps: - ENGINE: 4B , 6B , 6BT . CONSOLIDATED DIESEL - INDUSTRIAL . CUMMINS - INDUSTRIAL , - MARINE , - TRUCK/BUS . MACK - TRUCK/BUS . SAMSUNG - EARTHMOVING

AOPEC: A011103628B, A018903619

Replacing: 10461469, 10461486, 10479623

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	88.8mm	4.0KW	47mm	CW

Desc/Notes: 29MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: BELL B25. MERCEDES-BENZ ATEGO, AXOR, CITARO, CITO, CONECTO, ECONIC, UNIMOG, VARIO

AOPEC: A011119600B

Replacing: 8200138, A0061512101

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	91.8mm	8.2KW	47.5mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . VOLVO - EARTHMOVING

AOPEC: A011003651B

Replacing: 19011522

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	91.8mm	8.0KW	47.5mm	CW

Desc/Notes: 42MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . INGERSOLL RAND - INDUSTRIAL . MACK - TRUCK/BUS

AOPEC: A010003615, A011003691

Replacing: 10478998, 10461068, 1990344, 1990367, 4N0957

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	91.8mm	9.0KW	47.5mm	CW

Desc/Notes: 50MT. DD (DIRECT DRIVE). DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING

AOPEC: A011003650, A011003650A, A011003650DR, A011103650R

Replacing: 10479339, 10478911, 10461739

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	91.6mm	9.0KW	47.4mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: ISM , ISX . CUMMINS - EARTHMOVING , - TRUCK/BUS

AOPEC: A011003696B

Replacing: 10461756, 19011509, 19011523

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Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	9.0KW	47.7mm	CW

Desc/Notes: IMT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: CUMMINS - EARTHMOVING , - INDUSTRIAL

AOPEC: A010019652

Replacing: 8200761

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm		48mm	CW

Desc/Notes: 40MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CUMMINS - EARTHMOVING . INGERSOLL RAND - INDUSTRIAL . MACK - TRUCK/BUS

AOPEC: A011103601R, A011103646B

Replacing: 1113842, 1114710, 1113814, 2A0051

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	9.0KW	47mm	CW

Desc/Notes: 50MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: - ENGINE: K1150 . CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . KOMATSU HD735, HD785, PC1000

AOPEC: A011003650BCON

Replacing: 1109642, 1109836, 1109979, 3T8967

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	9.0KW	47mm	CW

Desc/Notes: 50MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING , - INDUSTRIAL . KOMATSU - EARTHMOVING , - INDUSTRIAL

AOPEC: A100383

Replacing: 3603868PL

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	7.0KW	48mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION). DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: DAEWOO - EARTHMOVING . TATA NOVUS 5542

AOPEC: A012303672B

Replacing: 65262017074A

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	8.0KW	48mm	CW

Desc/Notes: 42MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . INGERSOLL RAND - INDUSTRIAL . MACK - TRUCK/BUS

AOPEC: A011103646R

Replacing: 10478998, 10461068, 1990344, 1990367, 4N0957

Complete Starters

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	9.0KW	47.4mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION). DRY CLUTCH; OCP (OVER CRANK PROTECTION) - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING

AOPEC: A011003687, A011003687B

Replacing: 8200321

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	89mm	4.5KW	47mm	CW

Desc/Notes: 37MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: CATERPILLAR - EARTHMOVING . INTERNATIONAL - TRUCK/BUS . MACK - TRUCK/BUS

AOPEC: A011103641B

Replacing: 10478811, 1993918, 8C4774

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	89mm	7.0KW	47mm	CW

Desc/Notes: 41MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING

AOPEC: A011103645B

Replacing: 10461395, 10478961, 10479013, 0R4263

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	91.8mm	5.3KW	47mm	CW

Desc/Notes: 38MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: CUMMINS - TRUCK/BUS . ERF - TRUCK/BUS

AOPEC: A011003652

Replacing: 19026030, 19026026, 8200000, 8200072, 8300025

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	91.8mm	9.0KW	47.5mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION). WITH OCP; WET CLUTCH - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING

AOPEC: A010019649

Replacing: 8200435

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	91.5mm	9.0KW	47.5mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: CATERPILLAR - EARTHMOVING . MITSUBISHI - EARTHMOVING

AOPEC: A011103656B

Replacing: 19011524

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Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	92mm	9.0KW	48mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: MERCEDES-BENZ ACTROS, TRAVEGO

AOPEC: A010003654,A010003654IM

Replacing: 19011501, A0051513401

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	92mm		48mm	CW

Desc/Notes: 40MT. DD (DIRECT DRIVE). DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING

AOPEC: A011103613DR

Replacing: 10461720

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	92mm		48mm	CW

Desc/Notes: 40MT. DD (DIRECT DRIVE). DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . INGERSOLL RAND - INDUSTRIAL

AOPEC: A011103601B

Replacing: 1113923, 1114805, 1113934, 1113959

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	92mm	8.0KW	48mm	CW

Desc/Notes: 42MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . INGERSOLL RAND - INDUSTRIAL

AOPEC: A011003635, A011003642B, A011103666R

Replacing: 1990357, 1990413, 4N3182

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	92mm	7.0KW	48mm	CW

Desc/Notes: 41MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING

AOPEC: A011103664DR, A10479205

Replacing: 10478817, 10461239, 3921403, 9Y1945, 3E2298

Manuf/Sys: DELCO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	101mm	9.0KW	95mm	CW

Desc/Notes: 50MT. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CATERPILLAR - EARTHMOVING . KOMATSU - EARTHMOVING , BULLDOZER D9G, HAULPAK

AOPEC: A011003653DR

Replacing: 1109757, 3T3430, 7N8604, 3T2781

Complete Starters

Manuf/Sys: **FORD**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	105mm	1.4KW	6mm	CW

Desc/Notes: DD (DIRECT DRIVE). BATTERY CABLE LUG CONNECTION

Vehicle Apps: FORD F100, F250

AOPEC: A010219601

Replacing: SA661A, D4TZ11002D, D5TF11001AA, D5TF11001DA, D6TF11001DA

Manuf/Sys: **FORD**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	103.7mm	1.4KW	15.7mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: FORD MUSTANG 2.3L, RANGER 2 3L. MAZDA 2.3L

AOPEC: A011103660

Replacing: F17U11000AB, F1TZ11002A, SA785

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	65.8mm	0.8KW	14.8mm	CW

Desc/Notes: PMDD (PERMANENT MAGNET - DIRECT DRIVE).

Vehicle Apps: - ENGINE: L100 . YANMAR - INDUSTRIAL

AOPEC: A010003657

Replacing: S114650A, S114650D, 11435177011, 41435177011

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	65.6mm	0.8KW	13mm	CCW

Desc/Notes: PMDD (PERMANENT MAGNET - DIRECT DRIVE).

Vehicle Apps: YANMAR - MARINE

AOPEC: A017915001B

Replacing: S114414, S114414A, S114651, S114651A, 11436177011

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	66mm	0.8KW	15mm	CCW

Desc/Notes: PMDD (PERMANENT MAGNET - DIRECT DRIVE).

Vehicle Apps: YANMAR - AGRICULTURAL , - INDUSTRIAL

AOPEC: A011903605BR

Replacing: S114651A, 11436277011

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	69.6mm	0.8KW	11.8mm	CW

Desc/Notes: PMDD (PERMANENT MAGNET - DIRECT DRIVE).

Vehicle Apps: NISSAN ALMERA 1.6L 16V, MICRA, PRIMERA 1.6L 16V

AOPEC: A010003619

Replacing: S114570, S114570A, S114570B, 2330073Y00, 2330073Y01

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Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	70mm	0.8KW	43mm	CCW

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: E13 , E15 , E16 . NISSAN LANGLEY 1.3L/1.5L, SENTRA 130/140/160

AOPEC: A010003621

Replacing: S114315, 23300M8000, 23300M8200, 23300M8010, 23300-M8000

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	70mm	1.2KW	10.6mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: GA14 , GA16 . NISSAN ALMERA 1.6L, PRIMERA 1.6L, SABER 1.4L/1.6L, SENTRA 1.4L/1.6L

AOPEC: A011903608B

Replacing: S114758, 2330050Y02

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	79.8mm	0.9KW	14.5mm	CW

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: JOHN DEERE - AGRICULTURAL . YANMAR - AGRICULTURAL

AOPEC: A011903631

Replacing: S114443, S114443A, S114653, S114653A, S114653B

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	83.4mm	0.8KW	8.3mm	CW

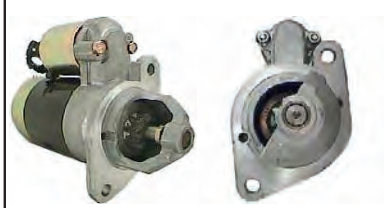
Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: NISSAN HARDBODY 2.4L

AOPEC: A011219600, A013415004

Replacing: S114306, S114309

Manuf/Sys: **HITACHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	69.5mm	1.0KW	22mm	CW

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: A15 , J15 . NISSAN 1300, 1500

AOPEC: A010003617

Replacing: 2330010605, 2330010600, S11492K, 23300-10605

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	70mm	0.8KW	10.1mm	CW

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: NISSAN 1200, 1400

AOPEC: A010003602R

Replacing: S11455, S11487, S11487K, S11487L, S11487M

Complete Starters

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	78mm	1.4KW	18mm	CW

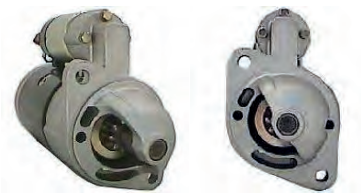
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: OPEL ASTRA 1.5L DIESEL/1.7L DIESEL, CORSA 1.5L DIESEL/1.7L DIESEL

AOPEC: A010003643R, A8971333691

Replacing: 8971333691, S114850, S114850A, 8-971333-691

Manuf/Sys: **HITACHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.5mm	1.0KW	7mm	CW

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: L16 , L18 . NISSAN 1500, 1600, 1800, E20, SSS, STANZA

AOPEC: A011203611B

Replacing: 2330021006, 2330021009, 23300U6000, 2330021005, 23300U0102

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.5mm	0.7KW	9mm	CW

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: H20 . NISSAN CABALL, E20

AOPEC: A011903604B

Replacing: 2330015815, 23300P5110, M3T06473, 23300-15815

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	1.6KW	11mm	CW

Desc/Notes: DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: SD22 , SD23 . NISSAN - FORKLIFTS , - LDV/VAN/MPV/4X4/PICK-UP , 2.2L DIESEL, 680

AOPEC: A011203632

Replacing: 2330031W02, 23300G7002, S1268B, 23300-31W02

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.5mm	1.0KW	10mm	CW

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID - SOLENOID WITH 3-HOLE MOUNT

Vehicle Apps: - ENGINE: L24E . NISSAN 1800, 260C, 4X4 TRACKER, SAFARI 2.4L/3.0L

AOPEC: A010003623

Replacing: 23300Y0501, 23300Y0701, S114172E, S114172D, 23300-Y0501

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	1.2KW	14mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: VG30E . NISSAN PATROL 3.0L, SANI 3.0L

AOPEC: A011903629, A018703618B

Replacing: 2330088G00, 2330088G01, S114528, 23300-88G00, 23300-88G01

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.5mm	1.4KW	-2.5mm	CW

Desc/Notes: PMDD (PERMANENT MAGNET - DIRECT DRIVE).

Vehicle Apps: - ENGINE: SR20DE , SR20DET . NISSAN 200SX 2 0i 16V TURBO, SERENA 2.0L

AOPEC: A011919606

Replacing: S114705A, 2330052F00

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	88.7mm	0.8KW	14.5mm	CW

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: KE3 . YANMAR - AGRICULTURAL

AOPEC: A011903634B

Replacing: S114625, 11986577011

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89mm	1.2KW	23mm	CW

Desc/Notes: DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 4ZD1 , G161Z , G180 , G180Z . ISUZU KB230 PETROL, KB260 PETROL, WFR

AOPEC: A010003645

Replacing: 94022494, 9821006350, 9821006060, S114247A, 9402-2494

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	94.8mm	2.5KW	10.5mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: NISSAN HARDBODY 3.0L TDi, TERRANO 3.0L DIESEL

AOPEC: A011903611B

Replacing: S13527B, 233002W200, 23300DB000

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	94mm	2.3KW	21mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4D94E , 4TNE . KOMATSU - FORKLIFTS . LINDE - FORKLIFTS . YANMAR - FORKLIFTS , FD25

AOPEC: A010003683, A018703600, A018703600B

Replacing: S13204, 12990077010

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	94.9mm	2.3KW	11mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4JA1 , 4JJ1 . ISUZU D-MAX 2.5L DIESEL/3.0L DIESEL, KB250 D, KB300 D

AOPEC: A011919601B

Replacing: S13555A, 8973658240

Complete Starters

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	95mm	2.2KW	12mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 4JA1 , 4JB1 , FD . HYSTER - FORKLIFTS . ISUZU KB250 DT, KB280 DT. KOMATSU - FORKLIFTS

AOPEC: A015615001R, A018703608R

Replacing: S13114A, 8944604010, 8-94460-417-1, 8-97112-549-0

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	95mm	2.0KW	12mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: TD23 , TD25 , TD27 . NISSAN 1-TONNER, 2.3L DIESEL, 2 5L DIESEL, 2.7L DIESEL, CABSTAR, HARDBODY 2.7L, TERRANO 2.7L

AOPEC: A011203627, A018703614B, A018703614R

Replacing: S13107, 2330010T02, 2330010T01, 233003T700, 2330080G00

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	75mm	1.4KW	56mm	CCW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION). VERY LONG NOSE - CAN BE USED TO REPLACE THE 8-TOOTH THAT LOOKS LIKE THIS, BUT THE 8-TOOTH CANNOT BE USED TO REPLACE THE 10-TOOTH

Vehicle Apps: - ENGINE: VQ30 . NISSAN INFINITI 3 0L, MAXIMA 3.0L V6

AOPEC: A011903610

Replacing: S114801B, S114801C, 2330031U01, 2330031U02, 23300-31U01

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	78mm	1.4KW	19mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: TC4EE1 , X17DT . OPEL ASTRA 1.7L DT, VECTRA 1.7L DT

AOPEC: A011919604

Replacing: S114808, S114808A

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	13	78mm	1.4KW	19mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION). K/T/S/

Vehicle Apps: - ENGINE: Y17DT , Y17DTL , Z17DTH , Z17DTL . OPEL ASTRA 1.7L DIESEL, CORSA 1.7L CDTi/1.7L DIESEL

AOPEC: A010003646B, A010019635

Replacing: S114829, S114829A, 8971891181, 6202000, 97189118

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	15	95mm	1.4KW	19mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 3HJ2 , 4JH2 , YH2 . YANMAR - AGRICULTURAL , - MARINE

AOPEC: A018719603R

Replacing: S114257G, S114483, S114483A, 12957377010

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Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	95mm	3.2KW	21mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 4BC1 , 4BC2 , 4BD1 , 4BE1 , C330 . ISUZU ELF, KS, KT, NKR, NPR, TLD. KOMATSU EXCAVATOR

AOPEC: A014803602B

Replacing: 8943334380, 5811001280, 5811001282, 8942549221, S2403C

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	105mm	3.2KW	12mm	CW

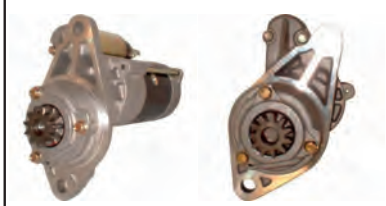
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: NISSAN CABSTAR

AOPEC: A011203603R

Replacing: 23300T9008, S2401D

Manuf/Sys: **HITACHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	93.8mm	4.0KW	45mm	CCW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4HF1 , 4HJ1 . DMA - TRUCK/BUS . ISUZU FTR, NPR, NPR300, NPR400, NQR

AOPEC: A018703619B

Replacing: S25501, S25501A, 8971722110

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	104.8mm	5.0KW	33mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: FE6 . NISSAN UD50, UD60, UD70, UD80, UD85, UD90, UD95

AOPEC: A011203601, A011203630

Replacing: 23300Z5512, 23300-Z5512

Manuf/Sys: **HITACHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	4.5KW	32mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: NISSAN UD50, UD60, UD70, UD80, UD90, UD95

AOPEC: A018703611B

Replacing: 23300Z5515, S25164A

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	65.8mm	1.0KW	15mm	CCW

Desc/Notes: AZE. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: YANMAR 0.2L, 0.3L, 0.4L

AOPEC: A017915001, A017915007

Replacing: 11131186, AZE1230, IS1066, 11439977010, 11436277011

Complete Starters

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.4mm	2.7KW	21mm	CW

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: DEUTZ - AGRICULTURAL . KHD - AGRICULTURAL . LOMBARDINI - AGRICULTURAL

AOPEC
A017915005

Replacing: 11130432, ISO432, AZJ3123

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89.9mm	3.0KW	47.8mm	CW

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: MERCEDES-BENZ - TRUCK/BUS , LP608, LP709, LP808, LP813, LP911, LP913, NG1013

AOPEC
A017915015

Replacing: 11130412, ISO412, AZJ3118

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	109.9mm	3.0KW	27.5mm	CW

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: 160PS , 175PS , 8055 , 8065 , 8365 . FIAT - AGRICULTURAL . FORD - AGRICULTURAL . IVECO - AGRICULTURAL . NEW HOLLAND - AGRICULTURAL

AOPEC
A017915003

Replacing: 11130697, AZJ3237, ISO366

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	109.5mm	3.0KW	26mm	CW

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: 8031 , 8035 , 8041 , 8045 , 8055 , 8061 , 8065 . AGRIFULL - AGRICULTURAL . FIAT - AGRICULTURAL . FIAT ALLIS - EARTHMOVING . IVECO - TRUCK/BUS . NEW HOLLAND - AGRICULTURAL

AOPEC
A017915025

Replacing: 11130403, AZJ3110, ISO403

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	110mm	2.7KW	27mm	CW

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: FIAT - AGRICULTURAL . IVECO - AGRICULTURAL

AOPEC
A017915011

Replacing: 11130532, ISO532, AZJ3156

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82mm	3.4KW	32mm	CW

Desc/Notes: AZF. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: INGERSOLL RAND P185, P250. JOHN DEERE 270, 280, 4045, 6068, LOADER, SKID STEER

AOPEC
A017903602, T017915027

Replacing: 11130793, RE505745

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Manuf/Sys: ISKRA

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	10	91.5mm	3.1KW	20mm	CW	A017915016

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: FORD 5000, 6000, 6600. NEW HOLLAND - AGRICULTURAL

Replacing: 11130627, AZJ3201, IS0627

Manuf/Sys: ISKRA

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	9	74mm	2.5KW	20.5mm	CW	A017915020

Desc/Notes: AZE. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: CATERPILLAR 326B. PERKINS 403, 404

Replacing: 11131419, AZE2178, 2834752

Manuf/Sys: ISKRA

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	9	82.5mm	2.8KW	21mm	CW	A017915022

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: VM - INDUSTRIAL , D702, D703

Replacing: 11130645, AZJ3211, IS0645, 35532040F

Manuf/Sys: ISKRA

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	9	88.4mm	4.0KW	28mm	CW	A017919608, T017919608B

Desc/Notes: AZF. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: BF3L , BF4L , BF6L , F3L , F4L , F5L , F6L . DEUTZ - AGRICULTURAL , TCD 2015 V08

Replacing: 11.130.842, AZF4515, IS0842

Manuf/Sys: ISKRA

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	9	91.5mm	5.4KW	47mm	CW	A017915013

Desc/Notes: AZK. DD (DIRECT DRIVE).

Vehicle Apps: ADE - TRUCK/BUS . MAN - TRUCK/BUS . MERCEDES-BENZ - TRUCK/BUS

Replacing: 11139506, IS9035, AZK5545

Manuf/Sys: ISKRA

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	10	88.9mm	4.0KW	28mm	CW	A017915009

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: MAN - TRUCK/BUS

Replacing: 11131143, IS1057, AZJ3387

Complete Starters

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	88.5mm	4.0KW	28.6mm	CW

Desc/Notes: AZF. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: PERKINS - AGRICULTURAL , - INDUSTRIAL , - MARINE

AOPEC: A017915018

Replacing: 11131399, IS1130, AZF4104

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	89mm	4.0KW	29.8mm	CW

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: MASSEY FERGUSON - AGRICULTURAL

AOPEC: A017917201

Replacing: IS0367, 11130367

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	89mm	6.5KW	47.4mm	CW

Desc/Notes: AZG. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: DEUTZ - AGRICULTURAL , - INDUSTRIAL

AOPEC: A017919605

Replacing: AZG4654, 11131587, 01183039

Manuf/Sys: **ISKRA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	91.6mm	9.0KW	47mm	CW

Desc/Notes: AZG. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING . JOHN DEERE - EARTHMOVING

AOPEC: A017919603

Replacing: 11131905, AZG4687, IS1179

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	74mm	1.4KW	19mm	CW

Desc/Notes: S90. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 2Y , 3Y , 4Y . TOYOTA 6-SERIES FORKLIFTS, 7-SERIES FORKLIFTS, CRESSIDA 2.0L, DYNA 1.8L, HIACE 1 8L/2.0L/2. 2L, HILUX 1.8L/2.0L/2.2L, VENTURE 1.8L

AOPEC: A012319604

Replacing: 66925148, NX1200A, EL25148

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	74mm	0.9KW	19mm	CW

Desc/Notes: S80S. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: P3 . FORD LASER 1 3L/1.6L. MAZDA MIDGE 1.3L/1.6L

AOPEC: A012303677B

Replacing: 66925225, EL25225

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Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	82.5mm	1.4KW	6mm	CW

Desc/Notes: S90. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID - CAN ALSO HAVE 9T DRIVE WITH GEAR OD OF 29MM

Vehicle Apps: - ENGINE: H20 . NISSAN 1-TONNER, CABALL 2.0L, CABSTAR 2.0L, SKYLINE 1.8L/2.0L. TCM FORKLIFTS

AOPEC: A010015004

Replacing: 66925169, EL25169

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	64mm	1.4KW	12mm	CW

Desc/Notes: S90. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: FIAT UNO 1100/CENTO/ESPRESSO/FIRE/MIA/RIO/TEMPO

AOPEC: A012303668

Replacing: 66925111, EL25111

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	67mm	1.7KW	-5.2mm	CW

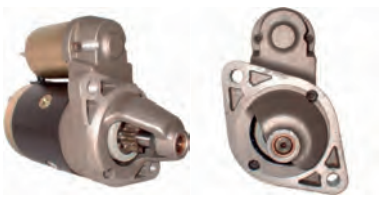
Desc/Notes: 2M14. DD (DIRECT DRIVE).

Vehicle Apps: TATA 207 1.9L TELCOLINE, SAFARI 4X4

AOPEC: A012303663R

Replacing: 26925121H, 26925121A, 26925121E, 265415109902

Manuf/Sys: **LUCAS**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74mm	1.4KW	19mm	CW

Desc/Notes: S90. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 18R , 21R , 22R . TOYOTA CRESSIDA 2.4L, DYNA, HILUX, STOUT

AOPEC: A012303660, AEL25195

Replacing: 66925095, 66925195, EX1200B, EL25195

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74mm	1.4KW	10mm	CW

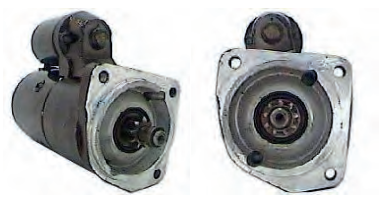
Desc/Notes: S90. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 4AFE , 7AFE . TOYOTA CONQUEST 1.6L, COROLLA 1.6L

AOPEC: A012303601

Replacing: 66925149, 66925109, FNA1200A, EL25149

Manuf/Sys: **LUCAS**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82.4mm	1.4KW	14.5mm	CW

Desc/Notes: S90. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: AUDI 1100. VOLKSWAGEN GOLF I 1100/I 1300, JETTA I 1100/I 1300

AOPEC: A012319603

Replacing: 66925137, 027911023, EL25137

Complete Starters

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	87.5mm	1.4KW	20mm	CW

Desc/Notes: S90. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: DAEWOO ESPERO 2.0L. OPEL ASCONA 1.8L/2.0L, ASTRA 1.8L/2 0L, KADETT 1.8L/2.0L, MONZA 1.8L/2.0L, REKORD 1.8L/2. 0L

AOPEC: A012303666

Replacing: 66925094, 66925194, EL25194

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89mm	1.4KW	21mm	CW

Desc/Notes: S90. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: ISUZU KB200 PETROL, KB230 PETROL, KB260 PETROL, RELAY, WFR

AOPEC: A010403660

Replacing: 66925196, 66925096, 93586274, EL25196

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89mm	2.4KW	18mm	CW

Desc/Notes: ER;M45G TVS;5M14;6M14. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: TATA 509M

AOPEC: A012303662

Replacing: 26925113S, 26925113F, 26925113

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	99mm	2.8KW	15.5mm	CW

Desc/Notes: M50G. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: TATA 713S

AOPEC: A012303673B

Replacing: 26925127A, 257415100106

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	99mm	2.8KW	15.5mm	CW

Desc/Notes: 3SM127. DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - EXTRA BOLT ON DE BRACKET FOR EARTH

Vehicle Apps: TATA 713S

AOPEC: A012303673

Replacing: 26925127A, 257415100106

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.4KW	14mm	CW

Desc/Notes: S90. DD (DIRECT DRIVE). ONE PUSH ON TERMINAL AND ONE EYE TERMINAL FOR SOLENOID

Vehicle Apps: - ENGINE: CVH . FORD BANTAM 1.6L, FIESTA 1.4L, XR3. MAZDA RUSTLER

AOPEC: A011615001

Replacing: 66925093, 66925193, 88AC11000B1A, 88AC11000AA, EL25193

Manuf/Sys: LUCAS

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	88.8mm	2.8KW	28mm	CW

Desc/Notes: M127;M50G. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: ADE - TRUCK/BUS . CASE - AGRICULTURAL . FORD - AGRICULTURAL , 5000, 6000, 6600. HYSTER - INDUSTRIAL . LANDINI - AGRICULTURAL . MASSEY FERGUSON - AGRICULTURAL . PERKINS - AGRICULTURAL

AOPEC: A012303656,A012303656B

Replacing: 66925090, TC27433

Manuf/Sys: LUCAS

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	88.5mm	2.8KW	30.5mm	CW

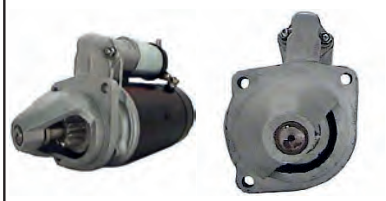
Desc/Notes: M127;M50G. DD (DIRECT DRIVE).

Vehicle Apps: ADE - TRUCK/BUS . FORD - AGRICULTURAL . INTERNATIONAL HARVESTER - AGRICULTURAL . LANDINI - AGRICULTURAL . LEYLAND - TRUCK/BUS . LINDE - INDUSTRIAL . MASSEY FERGUSON - AGRICULTURAL . PERKINS - AGRICULTURAL , - INDUSTRIAL

AOPEC: A012303657, A012303657B

Replacing: 66925089, 26357, LRS161, 3581576, 2873B071

Manuf/Sys: LUCAS



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	89mm	2.4KW	29mm	CW

Desc/Notes: M45G;2M113. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: ADE - AGRICULTURAL , - TRUCK/BUS . FORD 5000, 6000, 6600, 6610. HYSTER - FORKLIFTS . LANDINI - AGRICULTURAL . MASSEY FERGUSON - AGRICULTURAL

AOPEC: A012303675

Replacing: 27433, 66925051

Manuf/Sys: LUCAS

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	89mm	1.4KW	28mm	CW

Desc/Notes: S90. DD (DIRECT DRIVE). ONE PUSH ON TERMINAL AND ONE EYE TERMINAL FOR SOLENOID

Vehicle Apps: - ENGINE: CHV-LUC , CHV14 , CVH , F6 , F6 EGi . FORD BANTAM 1.4L/1.6L/1.6i, SAPPHIRE 2.0L, SIERRA 2.0L. MAZDA RUSTLER 1.4L/1.6L

AOPEC: A012319601, A013103602

Replacing: 66925092, 66925192, 88AC11000B1A, EL25192

Manuf/Sys: LUCAS

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	92mm	2.9KW	23mm	CW

Desc/Notes: M50G. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: ADE - TRUCK/BUS . CASE - AGRICULTURAL . FORD - AGRICULTURAL , 5000, 6000, 6600. HYSTER - INDUSTRIAL . LANDINI - AGRICULTURAL . MASSEY FERGUSON - AGRICULTURAL . NEW HOLLAND - AGRICULTURAL . PERKINS - AGRICULTURAL

AOPEC: A012303650B

Replacing: 66925170, 27500, 26339

Manuf/Sys: LUCAS

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	92mm	2.8KW	23mm	CW

Desc/Notes: M50G. DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: FORD - AGRICULTURAL , - TRUCK/BUS , 7610, 8000, CARGO

AOPEC: A010019648

Replacing: 26341

Complete Starters

Manuf/Sys: **LUCAS**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	88.5mm	4.5KW	45.5mm	CW

Desc/Notes: 7M14. DD (DIRECT DRIVE).

Vehicle Apps: TATA 1518

AOPEC: A012303664B

Replacing: 26024055A, 4093888, 278615999970

Manuf/Sys: **MAGNETI-MARELLI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	109.6mm	2.7KW	27.5mm	CW

Desc/Notes: MT71AB. DD (DIRECT DRIVE).

Vehicle Apps: FIAT - AGRICULTURAL . IVECO - AGRICULTURAL

AOPEC: A0104036111

Replacing: 63217126

Manuf/Sys: **MAGNETI-MARELLI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	110mm	3.5KW	26mm	CW

Desc/Notes: DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: FIAT - AGRICULTURAL , TRACTORS

AOPEC: A0110419605

Replacing: 63216827, MT68AC, MT71Z

Manuf/Sys: **MAGNETI-MARELLI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	110mm	3.5KW	26mm	CW

Desc/Notes: MT68AD. DD (DIRECT DRIVE).

Vehicle Apps: FIAT - AGRICULTURAL . IVECO - AGRICULTURAL

AOPEC: A012419600

Replacing: 63216831

Manuf/Sys: **MAGNETI-MARELLI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	88.6mm	3.0KW	33mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: JCB - EARTHMOVING . MASSEY FERGUSON MF1200, MF3120, MF6270, MF8120. PERKINS - AGRICULTURAL

AOPEC: A010019604, A013119601

Replacing: 63280040, MSN8040, 2873K404

Manuf/Sys: **MAGNETI-MARELLI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	89mm	3.0KW	30mm	CW

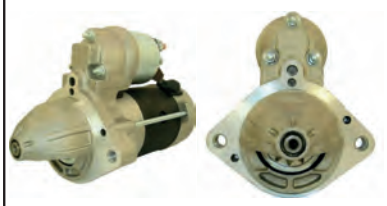
Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: JCB - EARTHMOVING . PERKINS - AGRICULTURAL

AOPEC: A010003616B, A010003632, A017915010BR

Replacing: 4280001290, 63280041, MSN8041, 2873K405

Manuf/Sys: MAGNETI-MARELLI



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	76.2mm	2.0KW	22mm	CW

Desc/Notes: MS4. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: BMW 745i, X5 3.0d

AOPEC
A010419607B

Replacing: 7788680, 4280000660, MS4280000660, 280000660

Manuf/Sys: MAGNETI-MARELLI

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	64mm	0.9KW	11.4mm	CW

Desc/Notes: PMDD (PERMANENT MAGNET - DIRECT DRIVE).

Vehicle Apps: FIAT PALIO 1.2L, PANDA 1.1L, PUNTO 1 2L 16V, SIENA 1.2L, UNO 1.0L/1.1L

AOPEC
A012819609B

Replacing: 63101018, 63101015

Manuf/Sys: MANDO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	70mm	1.2KW	8.3mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: HYUNDAI 2.7L V6, SANTA FE, SONATA, TERRACAN 3.5i V6, TRAJET, TUCSON

AOPEC
A012519628B

Replacing: M62957, 3610037210

Manuf/Sys: MANDO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	76.8mm	1.2KW	18mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4G61 , G4GF , G4GM , G4GR . HYUNDAI COUPE 1.6i 16V/2.0i 16V, ELANTRA 1.8L/2.0L, TIBURON 1.8L/2.0L, TUCSON 2.0i. KIA CARENS 2.0L, CERATO 2.0L, SPECTRA 2.0L

AOPEC
A010003641, A010003641B

Replacing: M53436, 3610023100, 438017, D6RA78, 36100-23100

Manuf/Sys: MANDO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	77.5mm	0.7KW	18mm	CW

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: 4G32 , 4G33 , 4G52 , 4G54 . HYUNDAI ACCENT 1.3L/1.5L/1.6L, ELANTRA 1.6L/1.8L/AUTOMATIC, EXCEL 1.3i. MAZDA 323, B1600, B1800, B2000, B2200. MITSUBISHI COLT, GALANT, L300 1.6L/1.8L/2.0L/2.4L, LANCER, PAJERO 2.4L/2.6L, SPACE GEAR, SPACE WAGON, TREDIA 1.4L/1.6L/1.6L TURBO/1 8L

AOPEC
A010003640

Replacing: 3610011130, 3610021740, 3610022000, MC107012, MC109025

Manuf/Sys: MANDO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	78.3mm	2.2KW	19.6mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: KIA SORENTO 2 5L CRDi

AOPEC
A015419601

Replacing: TM000A23601, 361004A000

Complete Starters

Manuf/Sys: **MITSUBA**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74.9mm	1.2KW	33mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: HONDA ACURA 2.0L, CRV

AOPEC
A012503646B

Replacing: SM61205, 31200PNDA01, PND3J, 31200PNDA02

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	65.8mm	1.4KW	4mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: H20A , H25A . SUZUKI VITARA 2.0L/2.5L/V6

AOPEC
A012519606

Replacing: M001T79581, 3110077E20, M1T79581

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	66mm	0.8KW	4.5mm	CW

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: SUZUKI SAMURAI 1.3L, VITARA 1.6L

AOPEC
A018903621

Replacing: M3T41781, M003T41781, 3110083030, 3110083031

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	66mm	0.8KW	17.2mm	CW

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: SUZUKI SAMURAI, VITARA 1.6L

AOPEC
A010019609

Replacing: M2T30581, 3110073031, 31100-73031

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	70mm	1.4KW	29.8mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: SUZUKI GRAND VITARA 2.4L, KIZASHI 2.4L, SWIFT, SX4

AOPEC
A012519621

Replacing: M000T23171, 3110078K00

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	72.9mm	1.2KW	17mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).
PUSH ON TERMINAL CONNECTION FOR SOLENOID - BOTH HOLES THREADED

Vehicle Apps: - ENGINE: 6G72 . HYUNDAI SONATA 3.0L/3.0L V6. MITSUBISHI COLT 2.8L V6/3.0L V6, PAJERO 2.8L V6/3.0L V6

AOPEC
A012503612B

Replacing: M1T72583, MD172863, 3610035020

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Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	72.6mm	1.2KW	8.3mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: MITSUBISHI PAJERO 3.0L/3.5L/3 8L

AOPEC
A012519630

Replacing: M0T20471, M0T20472, MD362207

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	74mm	0.8KW	16mm	CW

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: E3 . FORD BANTAM 1.3L/1.6L, LASER 1.6L, METEOR 1.6L, SPECTRON 2.0L. KIA RIO 1 3L/1.5L, SEPHIA 1.6L, SPORTAGE 2 0L. MAZDA 323 1.3L/1.5L, 626 1.6L, B1600, MX3 1.6L/1.8L, RUSTLER 1.6L

AOPEC
A010003639B

Replacing: 30118400, M3T38882, MAZS111C36, M3T30281, 301-18-400

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	74.6mm	1.2KW	7mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: G10B , G13A , G13B , G16B . SUZUKI ALTO 1.0 L, BALENO 1.6i 16V/1.8L GT/1.9L TD, SWIFT 1.3L/1.6L, WAGON 1.3L

AOPEC
A012519613

Replacing: M1T70281, M1T70283, M1T75283

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	76.8mm	1.2KW	9mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4G92 , 4G93 , 4G94 . MITSUBISHI COLT 1.6L, PAJERO 1.8L/2.0L

AOPEC
A012519617

Replacing: M0T80581, M0T81281, MD332022

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	77mm	0.9KW	18mm	CW

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID - THREADED HOLES

Vehicle Apps: - ENGINE: 4G32 , 4G33 , 4G52 , 4G54 , G15B , G62B . HYUNDAI ELANTRA 1.5L, SONATA 1.8L/2.0L. MITSUBISHI GALANT 1.6 L/2.0L, L300 PETROL, TREDIA 1.8L

AOPEC
A010003644R

Replacing: M3T22581, M3T22582, MD034120, MD034121, 808818400

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	82mm	0.8KW	8mm	CW

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: NISSAN 1-TONNER, CABSTAR, E20

AOPEC
A011903632R

Replacing: 23300P5112, M3T21281

Complete Starters

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	8	82.2mm	0.9KW	8mm	CW	A011903632R

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: H20 . NISSAN - FORKLIFTS , 1-TONNER, CABSTAR, E20, SKYLINE 1.8L/2.0L

Replacing: M3T21882D, M3T21882, 2330000H10, 23300L1110, 23300L1111

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	73.7mm	1.2KW	18mm	CW	A012703601

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: MAZDA B2600

Replacing: M1T50471, G60118400B, G60118400A

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	73.8mm	1.2KW	9mm	CW	A012519604

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: CHRYSLER PT CRUISER 2.0L/2.4L

Replacing: M000T84881, M000T84881ZC, M0T84881, M0T84881ZC, 5033067AA

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	74mm	0.8KW	20mm	CW	A015119600

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: E , NA , VC . MAZDA B1500, B1600, B1800, E2000. MITSUBISHI CANTER, L300

Replacing: 042618400A, 022218400A, 0426-18-400, 0426-18-400A

Manuf/Sys: **MITSUBISHI**

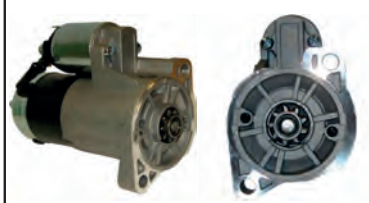
Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	74mm	0.9KW;1.0	21mm	CW	A015119600

Desc/Notes: DD (DIRECT DRIVE). TWO PUSH ON TERMINALS

Vehicle Apps: - ENGINE: 4G52 , 4G54B . MITSUBISHI COLT 2000/2600/GALANT 1600/GALANT 2000, L300

Replacing: M3T15772, MD021665, MD001550, MD003551, M3T15072

Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	82.5mm	1.2KW	8.7mm	CW	A018903614

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: KA20 , KA24 , KA24E . NISSAN - FORKLIFTS , HARDBODY 2.0L/2.4L, TERRANO 2.0i/2.4L/2.4i

Replacing: M1T60081, M1T60381, 23300W9810, 23300K9160

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Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	69.8mm	1.0KW	19.5mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: HR15DE . NISSAN TIIDA 1.5L/1.6L

AOPEC
A011903607B

Replacing: M000T32171, 23300BC20A, M0T32171

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	73.8mm	1.4KW	14mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: FORD TELSTAR 2.0L. MAZDA 626 1.8L/2.0L, MX6 2.0L

AOPEC
A018903618

Replacing: M1T77381, FS0518400, FS1118400, FS1118400A, F32Z11002A

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76.8mm	1.2KW	18mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: MITSUBISHI - FORKLIFTS , FG20, FG25, FG30, FG35

AOPEC
A018903622B, A018903622R

Replacing: M1T79781, MD318086, MD320618

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76.8mm	2.2KW	4mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4D55 . HYUNDAI H1, H100 2.5L DIESEL, H150, H200. MITSUBISHI COLT 2.5L DIESEL/2.8L DIESEL, L200 2.5L DIESEL, L300 2.3L DIESEL/2.5L DIESEL, PAJERO 2.3L DIESEL/2 5L DIESEL, SPACE WAGON 2.0L TD

AOPEC
A012503618

Replacing: M2T87071, M2T84071, MD312857, MD312858

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	77mm	2.0KW	4mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID - MOUNTING HOLES THREADED

Vehicle Apps: - ENGINE: 4D55 . HYUNDAI 2.6L DIESEL, H1, H100, H150, H200. MITSUBISHI COLT 2.3L DIESEL/2.5L DIESEL/2.8L DIESEL, L200 2.5L DIESEL, L300 2.3L DIESEL/2.5L DIESEL, PAJERO 2.3L DIESEL/2.5L DIESEL, SPACE WAGON 2.0L TD

AOPEC
A010003642R, A012503610

Replacing: M2T56182, MD164975, MG120413, 3610042011, M2T56181

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	77mm	2.2KW	9mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: MITSUBISHI COLT 2.8L DIESEL, PAJERO 2.8L DIESEL

AOPEC
A012503635

Replacing: M2T63271, ME200206, M002T63271

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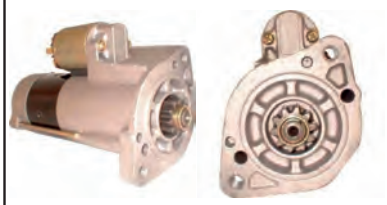
Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	77mm	2.2KW	10mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4M40 . MITSUBISHI CANTER 2.8L TD, COLT 2.8L DIESEL/2.8L TD, PAJERO 2.5L TD/2.8L DIESEL/2.8L TD/3.2L DIESEL

AOPEC
A012503603B, A260015210

Replacing: M8T75071, ME201650

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	81.5mm	2.2KW	18mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: WLT . FORD COURIER 2.5L DIESEL, RANGER 2.5L DIESEL. MAZDA B2200 DIESEL, B2500 DIESEL/DT, DRIFTER 2.5L DIESEL, MPV 2 5L TD

AOPEC
A9118400

Replacing: WL9118400, M2T87271, M002T87271, M002T87271ZT, WL0218400A

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82.5mm	2.2KW	23.8mm	CW

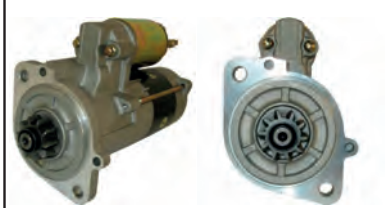
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4DQ , S4S . CLARK - FORKLIFTS . MITSUBISHI - FORKLIFTS

AOPEC
A015103602

Replacing: M2T62271, 32A6600101, 920670, M002T52271, 32A66-00101

Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82.5mm	2.2KW	23mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4DQ , S4S . CLARK - FORKLIFTS . HYSTER - FORKLIFTS . MITSUBISHI - FORKLIFTS

AOPEC
A010003655R, A012503633

Replacing: M8T75171, 32A6610100, 32A6610101

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82.4mm	1.7KW	8mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION). ALSO COME OUT WITH A VERSION WITHOUT THE FLAT PIECE PROTRUDING FROM THE DRIVE-END BRACKET - THE TWO UNITS ARE 100% INTERCHANGEABLE

Vehicle Apps: CHRYSLER JEEP CHEROKEE 4.0L/GRAND CHEROKEE 4.0L/WRANGLER 4 0L

AOPEC
A012519608

Replacing: M1T74287ZC, 56041014, M1T74281, M1T74286, M1T74287

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	69.6mm	2.2KW	32mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: YD25 , YD25DDTi . NISSAN CABSTAR, CABSTER 2.5L TD, NAVARA 2.5L DIESEL, PATHFINDER 2.5L DCi

AOPEC
A012519610B

Replacing: M8T76071, 23300EB30A

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Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	74mm	0.8KW	17mm	CW

Desc/Notes: DD (DIRECT DRIVE). EYE TERMINAL CONNECTION FOR SOLENOID - THERE IS ALSO A 8T INTERCHANGEABLE UNIT.

Vehicle Apps: - ENGINE: FE , FS2M , M4121G , VA . HYSTER - FORKLIFTS . MAZDA - INDUSTRIAL . MITSUBISHI - FORKLIFTS . TCM - FORKLIFTS . YALE - FORKLIFTS

AOPEC
A010019633

Replacing: M3T10473, M3T10475, M3T10476, 220052112, 489318400B

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	62.9mm	1.4KW	7.5mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: K9K . NISSAN JUKE 1.5L dCi, NP200 1.6L 16V, TIIDA 1.5L dCi. RENAULT CLIO 1.5L DCi, KANGOO 1.5L DCi, LAGUNA 1.5L DCi, MEGANE 1.5L DCi, MODUS 1.5L dCi, TWINGO 1.5L DCi

AOPEC
A010019659

Replacing: M000T87881, 8200584675

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	64.7mm	1.4KW	-2.3mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: NISSAN MICRA 1.5L DCi. RENAULT CLIO 1.5L DCi, KANGOO 1.5L DCi, MEGANE 1.5L DCi, SCENIC 1.5L DCi

AOPEC
A012503637

Replacing: M0T81291, M0T86181, M0T91581, 2330000QAW, 2330000QUA

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	64mm	1.4KW	-5.7mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: CITROEN C4 2.0L 16V, C5 2.0L 16V, C8 2.0L 16V, JUMPY 2.0i 16V, XSARA 1.8L 16V PICASSO/2 0L 16V. PEUGEOT 206 2.0L 16V, 406 1.6i 16V/1.8L 16V/1.8i 16V/2.0L 16V

AOPEC
A012519623

Replacing: M000T82081, M000T85381

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	70mm	2.2KW	32.4mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: TD25Ti , YD25DDTi . NISSAN HARDBODY 2.5L DIESEL/2.5L TDi, HI-RIDER 2.5L TDi, NP300 HARDBODY 2.5L TDi/HI-RIDER 2.5L TDi

AOPEC
A011919600

Replacing: M002TS0571, M002TS0575, M2TS0571, M2TS0575, 23300VK500

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	73.9mm	1.4KW	16mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: G6 . FORD 2.6L. MAZDA B2200 PETROL, B2600 PETROL, MPV 2.6L

AOPEC
A012503614

Replacing: M2T50981, G60218400, G60218400A, G60218400B

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Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	89.8mm	3.6KW	33mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: FORD - TRUCK/BUS

AOPEC
A012503639B

Replacing: M008T50071, M8T50071, F4TZ11002A, F5TU11000AA, F5TU11000AB

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	13	77mm	2.2KW	5mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: HYUNDAI H100 2.3L DIESEL. MITSUBISHI COLT 2.5L DIESEL, PAJERO 2.3L DIESEL/2.5L DIESEL

AOPEC
A012503629B

Replacing: M2T61071, MD164977, M002T61071

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	13	82mm	1.4KW	56.3mm	CCW

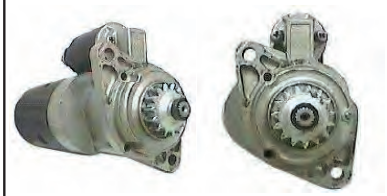
Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: NISSAN XTRAIL 2.0L/2.5L

AOPEC
A012503645IMP

Replacing: M0T87081, 233008H500

Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	15	77mm	1.6KW	30mm	CW

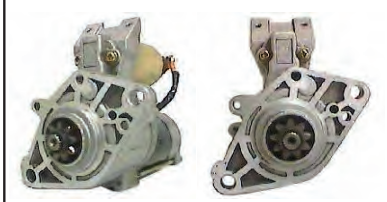
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: MITSUBISHI - AGRICULTURAL

AOPEC
A012503648B

Replacing: MM409410, M2T50381

Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	60mm	3.2KW	20mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 4D30 , 4D31 , 4DR5 , 4DR7 , FD30 , FD31 , FE100 . MITSUBISHI CANTER

AOPEC
A012503606

Replacing: ME017034, M2T66871

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	60mm	3.2KW	20mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: AMC 3.5L DIESEL, 3 5L TD. MITSUBISHI CANTER 3.3L TD/3.5L TD/3.9L DIESEL/3.9L TD, FUSO 3.5L TD

AOPEC
A012503602R

Replacing: M008T80071, M8T80071, ME014418, ME013008

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Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	9	100mm	3.2KW	24mm	CW

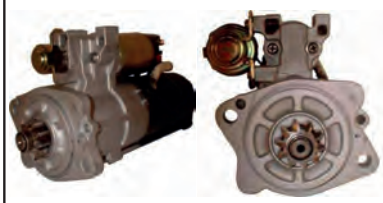
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 4D30 , 4DR5 , FB100 . MITSUBISHI CANTER 3.3L TD

AOPEC
A012503625, A018703615R

Replacing: M2T64271, M2T64272, ME017004, ME017001, 8S9096

Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	82.3mm	4.5KW	23mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: S6S . CATERPILLAR - FORKLIFTS , DP40. MITSUBISHI - FORKLIFTS

AOPEC
A012503636B

Replacing: M8T60372, M8T60371, M8T60771, M008T60371, 32B6600202

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	82.3mm	5.0KW	22mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: CATERPILLAR 318, 320B

AOPEC
A012519619

Replacing: M8T60871, M8T60872, 32B6602102

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	104.8mm	7.0KW	40mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: NISSAN UD-SERIES, UD440

AOPEC
A012503630A, A012503630BR

Replacing: M9T82571, 2330000Z05

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	83mm	3.5KW	24mm	CW

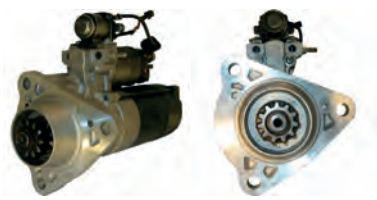
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID - RUNS IN OIL - TAKES SEAL

Vehicle Apps: - ENGINE: S4E , S4S . FURUKAWA - EARTHMOVING . MITSUBISHI - FORKLIFTS , FD25, FD30, S4E. TCM - FORKLIFTS

AOPEC
A010003601B

Replacing: M2T65271, 3446620102

Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	91.9mm	5.5KW	47.5mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: RENAULT KERAX TRUCK/BUS

AOPEC
A012519611B

Replacing: M9T60471, M9T61571, 5001853713, 5010306592, 5010480196

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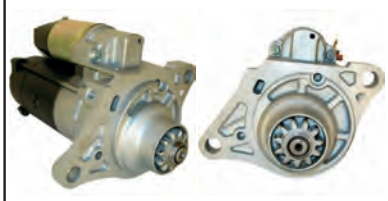
Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	11	95mm	5.0KW	43.6mm	CW	A012503631B

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 6HK . HITACHI ZX270 EXCAVATOR, ZX330 EXCAVATOR. ISUZU FTM

Replacing: M008T60972, 8980608540

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	11	99.8mm	5.5KW	23mm	CW	A012503608

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4D333 , 4D342 , 6D311 , 6D340 . BELL KATO 820E. MITSUBISHI - FORKLIFTS

Replacing: M008T87171M, ME049303M, M8T87171M, ME080740M

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	11	99.6mm	4.5KW	70mm	CW	A012503616B

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION). DRY CLUTCH; NO SEAL; OFF-SET GEAR

Vehicle Apps: - ENGINE: 6D20 , 6D22 . FURUKAWA - EARTHMOVING . HYUNDAI - EARTHMOVING . KOBELCO - EARTHMOVING . MITSUBISHI - EARTHMOVING , FUSO, KATO. SUMITOMO - EARTHMOVING , - INDUSTRIAL

Replacing: M9T60171, M009T60171, ME152487J, ME152487, 031227069

Manuf/Sys: **MITSUBISHI**

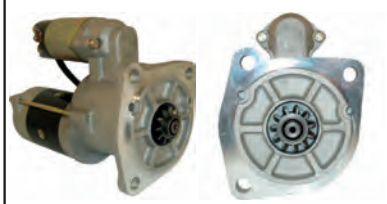
Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	11	104.9mm	7.0KW	42.1mm	CW	A010019654

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 6WA1 , 6WF1 . ISUZU - EARTHMOVING , - TRUCK/BUS

Replacing: M009T80971, 1811003413

Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	11	105mm	5.0KW	11mm	CW	A010003622, A018703622B, A018703622R

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: FD42 , FD46 . NISSAN CABSTAR 4.2L DIESEL/4.6L DIESEL, UD-SERIES, UD35, UD40

Replacing: M002T78681, 233000T005, 233000T003, M2T78681

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	11	109.8mm	4.5KW	66mm	CW	A010003605B

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 6D10 , 6D14 , 6D15 , 6D16T . FAW - TRUCK/BUS . FURUKAWA - INDUSTRIAL . MITSUBISHI FK115, FM104, FM215, FUSO

Replacing: M3T56071, M3T56074, ME037636, ME037330, M000A0291

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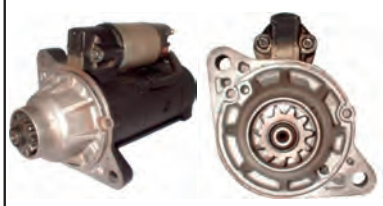
Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	110mm	5.0KW	65.5mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION). BOTH HOLES NOT THREADED (13.5MM)

Vehicle Apps: - ENGINE: 6D17 . BELL - EARTHMOVING . CATERPILLAR - EARTHMOVING . MITSUBISHI FM215, FUSO

AOPEC
A018703617

Replacing: M8T60071A, M008T60071A, ME077796, M8T60071, 1149831

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	89mm	5.5KW	40mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: DXI11 . RENAULT KERAX 3500

AOPEC
A012503642B

Replacing: M9T60672, M009T60672, 5010508379

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	91.8mm	5.5KW	49mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION). WITH OVERHEATING PROTECTION TIMER IN SOLENOID

Vehicle Apps: VOLVO A40D, FH12, FM12, NH12

AOPEC
A011103655B, A012503644

Replacing: M009T61171, M9T61171, 20430564

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	92mm	7.0KW	48mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: VOLVO - TRUCK/BUS , A40, A40D, FH12, FM12, NH12

AOPEC
A011103655, A011103655IM

Replacing: M9T82171, M009T82171, 11127679

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	92mm	9.0KW	48mm	CW

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: OM457 , OM502 , OM541 , OM542 . MERCEDES-BENZ ACTROS, AXOR, CITARO, TRAVEGO

AOPEC
A010003654, A010003654IM, A010403608B

Replacing: 19011501, 0051516401, A0051516401

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	109mm	4.5KW	66mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: MITSUBISHI FM215, FUSO

AOPEC
A012519602

Replacing: M4T50073

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Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	13	88.9mm	5.5KW	48.3mm	CW

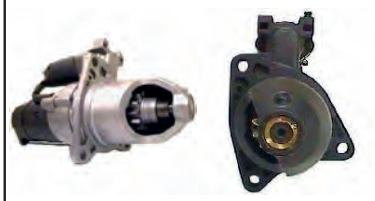
Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: MERCEDES-BENZ AXOR

AOPEC
A010019641, A012519625

Replacing: M009T64371, A0061514801

Manuf/Sys: **MITSUBISHI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	13	100mm	5.5KW	70mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID - ALUMINIUM BRACKET, EXTERNAL THROUGH BOLTS, NO SEAL ON DE BRACKET

Vehicle Apps: FURUKAWA FL330I. MITSUBISHI FUSO, KATO. SUMITOMO SH300, SH400, SH450

AOPEC
A0104036108

Replacing: M3T95082, M3T95071, ME057990, ME057350, 3610083010

Manuf/Sys: **MITSUBISHI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	13	100mm	5.5KW	52.8mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: KOMATSU - EARTHMOVING , PC200, WA320

AOPEC
A012903675B

Replacing: 6008133650, 6008133651, 6008133660

Manuf/Sys: **NIKKO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	95mm	2.2KW	19mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: KOMATSU FD25

AOPEC
A012903681B

Replacing: 0230000260, 0230000261, 0230000262, 6008131721

Manuf/Sys: **NIKKO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	105mm	3.0KW	41mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 2PE , 4BC , 4BD1 , 6BD1 . ISUZU - FORKLIFTS , - INDUSTRIAL . TCM - FORKLIFTS , FHD25-Z3

AOPEC
A012903686B

Replacing: 0230001980, 8943675660

Manuf/Sys: **NIKKO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	88.8mm	4.5KW	49mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). WET CLUTCH - OIL SEALED

Vehicle Apps: - ENGINE: S4D , S6D . CUMMINS - EARTHMOVING . KOMATSU WA120

AOPEC
A012903621B

Replacing: 0240003060, 0240003240, 6008634510, 6008634410

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Manuf/Sys: NIKKO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	91.8mm	7.5KW	45.8mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: KOMATSU - EARTHMOVING

AOPEC
A012903622R

Replacing: 0230007861, 6008134933

Manuf/Sys: NIKKO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	92mm	7.5KW	46mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID - OIL SEALED

Vehicle Apps: - ENGINE: K1150 . CATERPILLAR - EARTHMOVING . CUMMINS - TRUCK/BUS . KOMATSU HD375, HD465, HD785

AOPEC
A012903623R

Replacing: 0230007161, 0230007160, 0230007770, 6008137110, 6008137112

Manuf/Sys: NIKKO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	100mm	7.5KW	50mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: S6R . HITACHI EX1200

AOPEC
A012903679

Replacing: 0230007742, 3756620501

Manuf/Sys: NIKKO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	104.5mm	4.5KW	40.5mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID - WITHOUT O-RING ON DRIVE END BRACKET AND SEAL - FOR APPLICATIONS THAT DO NOT RUN IN OIL (DRY-CLUTCH)

Vehicle Apps: - ENGINE: 6BB1 , 6BD1 , 6BF1 , 6BG1 . FURUKAWA FL200i. ISUZU DA, FSR, JCM, JCR, SBR, SCR, SMXB, SPZ, TXD, VPZ

AOPEC
A010003610, A012919602

Replacing: 0230001030, 0230001031, 0230001032, 1811002640, 1811002641

Manuf/Sys: NIKKO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	104.9mm	7.5KW	56.2mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: HITACHI - EARTHMOVING , EX300. ISUZU - INDUSTRIAL

AOPEC
A011903602

Replacing: 0230006220, 0230006221, 0230006222, 0230007292, 1811002141

Manuf/Sys: NIKKO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	5.5KW	16mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 6D95L . KOMATSU PC100, PC120, PC150, PC200

AOPEC
A012903678B

Replacing: 0230001750, 0230001752, 6008134422, 6008134420, 023000-1750

Complete Starters

Manuf/Sys: **NIKKO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	13	89.7mm	5.0KW	11mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4HK1 . CASE - EARTHMOVING . ISUZU - EARTHMOVING

AOPEC
A021503642B

Replacing: 0240000178, 8980703211

Manuf/Sys: **NIKKO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	13	100mm	5.5KW	52mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 6D95 . KOMATSU PC200, PW100, PW150, PW200, WA320

AOPEC
A012919604, A012919604B

Replacing: 0230001231, 6008134120, 0230001270, 6008133390, 0230001230

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	64.7mm	0.6KW	26mm	CCW

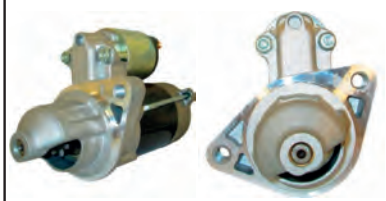
Desc/Notes: DD (DIRECT DRIVE). CAN ALSO BE 9T WITH 29MM OD

Vehicle Apps: CHANA 1000CC. SUZUKI 800, ST80, ST90

AOPEC
A010019623, A014003602B

Replacing: 1280003641, 3110085291

Manuf/Sys: **NIPPON DENSO**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	70mm	1.0KW	28mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: SUZUKI JIMNY 1.3L, SWIFT 1.3L

AOPEC
A012519615

Replacing: 2280008930, 3110080G00

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	74mm	0.8KW	4mm	CW

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 2E . TOYOTA CONQUEST 1.3L/1300, COROLLA 1.3L/1300

AOPEC
A010003624B

Replacing: 2810010030, 1280001620, 1280001621, 28100-10030

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	74mm	0.8KW	10.6mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: HCEJ , K3VE . DAIHATSU SIRION 1.3L, TERIOS 1.3i

AOPEC
A012819632

Replacing: 2280009252, 2810097401

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Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	54.7mm	1.4KW	16.9mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 5VZFE . TOYOTA HILUX 3.0L, LAND CRUISER 3.4L, PRADO 3.4L

AOPEC
A010003637

Replacing: 2280005302, 2810062050

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	65.6mm	0.6KW	18.5mm	CW

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 3K , 4K . TOYOTA 1200, 1300, COROLLA 1.3L RWD, TUV

AOPEC
A010003680, A012803669

Replacing: 2810024031, 2810024070, 2810024030, 0280004650, 0280004680

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	66mm	1.0KW	18mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 5K . KUBOTA - INDUSTRIAL . TOYOTA COROLLA, STALLION

AOPEC
A012803618

Replacing: 0280005910, 0280005912, 2810013010, 0280008440

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	66mm	2.0KW	23mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: LAND ROVER DEFENDER 2.5L TD5 DIESEL, DISCOVERY 2.5L TD5 DIESEL

AOPEC
A012803679B

Replacing: 2280007220, NAD101240

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	73.7mm	1.0KW	20mm	CW

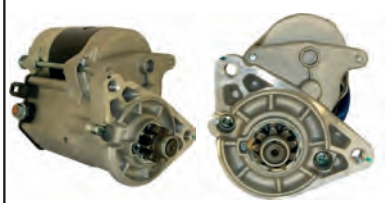
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4M . TOYOTA CRESSIDA 2.6L/2.8L, SUPRA 2.8L

AOPEC
A012803691

Replacing: 0280007620, 2810041060, 2810041030

Manuf/Sys: NIPPON DENSO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	73.8mm	1.0KW	20mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 1RZ , 1ZZFE , 2RZE . TOYOTA HIACE 2.0L PETROL/2.4L PETROL, HILUX 2.0L PETROL/2.7L PETROL/2.7L VVTi/2.8L, QUANTUM 2.0L/2.7L PETROL

AOPEC
A010003638R

Replacing: 1280005840, 1280007680, 2810042040, 2810075010, 28100-75010

Complete Starters

Manuf/Sys: **NIPPON DENSO**

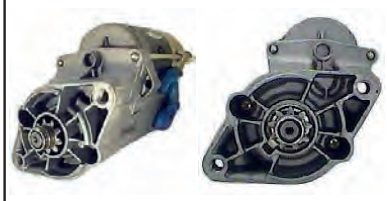
Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	73.4mm	1.0KW	13.7mm	CW	A012819605B

Desc/Notes: PMDD (PERMANENT MAGNET - DIRECT DRIVE).

Vehicle Apps: - ENGINE: 1NZFE , 2NZFE . TOYOTA YARIS 1.3L/1.3L 16V/1.3L VVTi/1.5L

Replacing: 2280008540, 2810021020, 2810021030

Manuf/Sys: **NIPPON DENSO**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	74mm	1.0KW	7mm	CW	A010003625

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 3A , 4A . TOYOTA CONQUEST 1.6L 16V, COROLLA 1.6L 16V

Replacing: 2810015060, 0280007981, 28100-15060

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	74mm	0.8KW	21mm	CW	A010003628

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 2T , 3T . TOYOTA COROLLA 1.3L/1.6L RWD/1.8L RWD, CRESSIDA 1.8L

Replacing: 2810026080, 28100-26080

Manuf/Sys: **NIPPON DENSO**

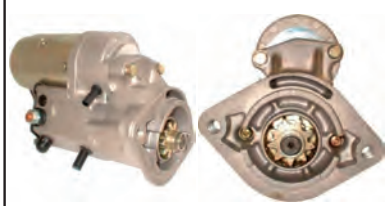
Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	74mm	1.0KW	19mm	CW	A010003630

Desc/Notes: DD (DIRECT DRIVE). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 18R , 5R , 8R . TOYOTA 1800, 2000, CORONA, CRESSIDA, DYNA, HIACE, HILUX, STOUT

Replacing: 2810034010, 2810036040, 2810040041, 28100-40041

Manuf/Sys: **NIPPON DENSO**



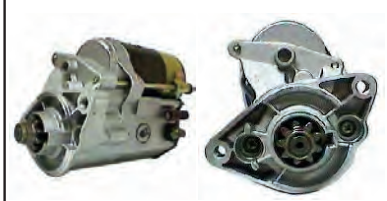
Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	74mm	2.0KW	4mm	CW	A012803686

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: TOYOTA CAMRY 1.8L/2.0L, COROLLA 1.8L, HIACE 1.8 L/2.0L, HILUX 1 8L/2.0L

Replacing: 2810064020, 2810064050, 0280008370, 0280008371, 0280009670

Manuf/Sys: **NIPPON DENSO**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	9	74mm	1.0KW	21mm	CW	A018703610

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 1Y , 2Y , 3Y , 4Y . TOYOTA - FORKLIFTS , COROLLA, CRESSIDA, DYNA, HIACE 1800/2000/2200, HILUX 1.8L/2.0L/2.2L, VENTURE 1.8L

Replacing: 2810072010, 0280009260, 2810072080, 28100-72010, 28100-72080

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Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74mm	0.8KW	8mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4AFE , 7AFE . TOYOTA CONQUEST 1.6L 16V, COROLLA 1.6L 16V EXECUTIVE/1.6L GL 16V/1.6L GLS 16V/1.6L GLX AUTOMATIC

AOPEC
A010003626B

Replacing: 2810016071, 1280005680, 2810016070, 2810016041, 1280006422

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74mm	1.0KW	9.3mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: TOYOTA CAMRY

AOPEC
A012819626

Replacing: 1280007330, 2810074040, 28100-74040

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	74mm		13.8mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 1ZRFE , 2ZRFE , 3ZRFE . TOYOTA AURIS 1.6 L/1.8L, AVENSIS 1.6L/1.8L/2.0L, COROLLA 1.6L VVTi/1.8L VVTi, VERSO 1.6L/1.8L

AOPEC
A012819630

Replacing: 4280004111, 4280004113, 281000T030

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	81.5mm	2.0KW	20mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: WLT . FORD COURIER 2.5L DIESEL, RANGER 2.5L DIESEL. MAZDA B2200 DIESEL, B2500 DIESEL/DT, DRIFTER 2.5L DIESEL, MPV 2 5L TD

AOPEC
A010015002

Replacing: 2280006482, 228000-6482, WL6118400A

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	82mm	1.0KW	20mm	CW

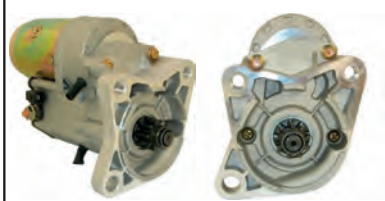
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 2F , 3F . TOYOTA CAMRY 2.0L 16V, LAND CRUISER 3.8L/4.0L/4.2L/PETROL

AOPEC
A010003636

Replacing: 2810060070, 0280008220, 28100-60070

Manuf/Sys: NIPPON DENSO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	87.5mm	2.0KW	7.5mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: R2 , RF . FORD COURIER 2.2L DIESEL. KIA BESTA 2.2L DIESEL, SPORTAGE 2.0L TD. MAZDA B2200 DIESEL, DRIFTER 2.2L DIESEL. SUZUKI GRAND VITARA 2.0L TD

AOPEC
A0127150001

Replacing: 1280000040, RF0118400, RF01-18-400

Complete Starters

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	89mm	1.2KW	22mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: ISUZU KB230 PETROL, KB260 PETROL

AOPEC
A010003645B

Replacing: 8944692460, 8943718330, 8941566710, 1280002040, 1280007560

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	94.8mm	2.2KW	10.7mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: ISUZU KB280 D/DT, KB300 D

AOPEC
A015603601, A015603601R

Replacing: 1280000830, 1280000831, 1280000832, 8941337583, 8941337584

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	95mm	2.0KW	21mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 4JA1 . ISUZU KB20, KB21, KB22, KB24, KB250 D/TD, KB26, KB27, KB28, KB280 TD, KB41, KB42. KOMATSU - FORKLIFTS . TCM - FORKLIFTS . THERMO KING - INDUSTRIAL . YALE - FORKLIFTS

AOPEC
A012803616A, A018703607R

Replacing: 5811001830, 0280007791, 8941364001, 60081231721, 1280004662

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	54.8mm	2.0KW	33mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: TOYOTA LAND CRUISER 4.5L

AOPEC
A012819624

Replacing: 2280003260, 2810066060

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	73.8mm	1.6KW	23mm	CW

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: TOYOTA FORTUNER 4.0L V6 VVTI, HILUX 4.0L V6 PETROL

AOPEC
A012819618

Replacing: 4280001241, 4280001242, 2810031040, 2810031041

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82.2mm	2.2KW	20mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). CANNOT BE REPLACED BY BOSCH TYPE UNIT WITH NOSE

Vehicle Apps: - ENGINE: 1KD , 1KZ , 1KZTE , 2KD . TOYOTA HIACE 2.5 L D4D, HILUX 2.5L D4D/2.5L DIESEL/3.0L D4D/3.0L DIESEL, PRADO 3 0 L DIESEL, QUANTUM 2.5L D4D/2.5L DIESEL/2.7L D4D/2.7L DIESEL

AOPEC
A012819604,A013415001B

Replacing: 2280005021, 2810067050, 28100-67050

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Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82mm	2.0KW	15mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 3L . TOYOTA DYNA 2.4L DIESEL, HIACE 2 2L DIESEL/2.4L DIESEL, HILUX 2.2L DIESEL/2.4L DIESEL/2.8L DIESEL/3.0L DIESEL, LAND CRUISER 2.4L DIESEL/2.8L DIESEL

AOPEC
A010003634

Replacing: 2810054380REPL, 2810014070REPL, 2280002120REPL, 28100-54380

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82.3mm	2.2KW	15.5mm	CW

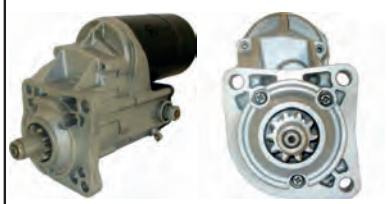
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: TOYOTA HILUX 2.8L DIESEL/3.0L DIESEL

AOPEC
A010003633, A2810054270

Replacing: 2810054270, 2280006614, 28100-54270

Manuf/Sys: NIPPON DENSO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	88.5mm		29mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: CATERPILLAR - EARTHMOVING

AOPEC
A012803692R

Replacing:

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	88.5mm	2.5KW	28mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: CATERPILLAR - FORKLIFTS . HYSTER - FORKLIFTS

AOPEC
A010003687B

Replacing: 1280001060

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	89mm	3.0KW	48mm	CW

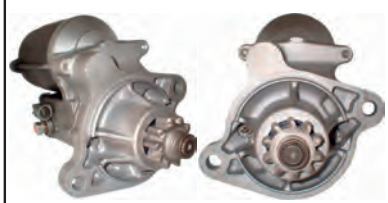
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID - SEALED FOR WET CLUTCH (RUNS IN OIL)

Vehicle Apps: - ENGINE: 3114 , 3116 . BOBCAT - EARTHMOVING . CATERPILLAR - EARTHMOVING , 424C, 910, TRACTORS

AOPEC
A010003609

Replacing: 1280005720, 1280005721, 1280005722, 1280005723, 3E5382

Manuf/Sys: NIPPON DENSO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	89mm	1.4KW	47.6mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: CATERPILLAR - EARTHMOVING , - FORKLIFTS

AOPEC
A012819612

Replacing: 1280006870, 2280005740, 7X1057, 6669633, 6667987

Complete Starters

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	74.7mm	1.7KW	52mm	CCW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: LAND ROVER FREELANDER 2.0L TURBO DIESEL. ROVER 200, 400, 600

AOPEC
A012819607

Replacing: 2280003980, 2280003981, NAD100580

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	75mm	1.7KW	40.6mm	CCW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: HONDA ACCORD 2.0L TDi, CIVIC 2.0L TD. LAND ROVER 2.0L DIESEL, FREELANDER 2.0L DIESEL. ROVER 420 2.0L, 620 2.0L, 820 2.0L

AOPEC
A010019625B

Replacing: 2280004960, 2280004961, 31200P9ME00

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	81.7mm	2.5KW	16mm	CW

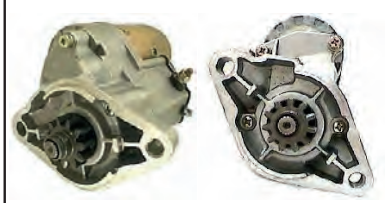
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 2L , L . TOYOTA HIACE 2.2L DIESEL/2.4L DIESEL, HILUX 2.2L DIESEL/2.4L DIESEL, LAND CRUISER 2.4L DIESEL

AOPEC
A012803656

Replacing: 2810054090, 2810054061, 0280005580, 0280006860, 0280006880

Manuf/Sys: **NIPPON DENSO**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	82.5mm	2.0KW	16mm	CW

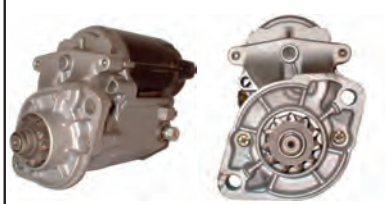
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 2L , 3L . TOYOTA HIACE 2.2L DIESEL/2.4L DIESEL, HILUX 2.2L DIESEL/2.4L DIESEL, VENTURE 2.4L

AOPEC
A012803650, A018703606R

Replacing: 2810054070, 0280007370, 0280007372, 0280007373, 28100-54070

Manuf/Sys: **NIPPON DENSO**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	82.5mm	1.4KW	25mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: V1902 , V2202 . BOBCAT - EARTHMOVING . KUBOTA - AGRICULTURAL , - EARTHMOVING , - INDUSTRIAL . NEW HOLLAND - AGRICULTURAL , - EARTHMOVING

AOPEC
A012819620

Replacing: 1280006280, 1901363011

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	87.8mm	2.2KW	42mm	CCW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: KIA K2700, K2700 DIESEL, PREGIO 2.7L DIESEL

AOPEC
A018703620

Replacing: OK60A18400, 031114200

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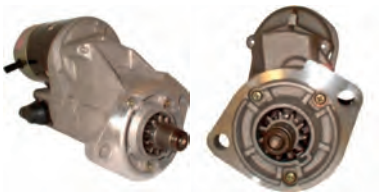
Manuf/Sys: NIPPON DENSO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	89.8mm	2.7KW	16.5mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID; WET CLUTCH

Vehicle Apps: - ENGINE: 11DZ . HYSTER - FORKLIFTS . TOYOTA 6-SERIES FORKLIFTS, 7-SERIES FORKLIFTS

AOPEC
A012803615B, A012819616B

Replacing: 281002366071, 2280003710, 2280003711, 28100-40291

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	89mm	4.8KW	49mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). WET CLUTCH - STARTER RUNS IN OIL

Vehicle Apps: JOHN DEERE - AGRICULTURAL

AOPEC
A012803673B

Replacing: 2280009140, RE504244

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	95mm	2.8KW	20.6mm	CW

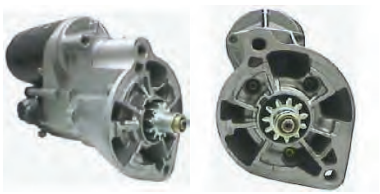
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: ISUZU - EARTHMOVING . KOMATSU - EARTHMOVING

AOPEC
A1826000001

Replacing: 1280009970, 228000144, 8944532111, 6008131420, 6008131721

Manuf/Sys: NIPPON DENSO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	104.8mm	2.5KW	15mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 13B , 14B . DAIHATSU - TRUCK/BUS . HINO - TRUCK/BUS . TOYOTA - TRUCK/BUS

AOPEC
A010003635B, A012819600R

Replacing: 2810056310, 2810056311, 2280003070, 28100-56311, 28100-56310

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	105mm	2.5KW	16mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 3B , B , B2 . TOYOTA DYNA 2.2L DIESEL/2.4L DIESEL

AOPEC
A012803659B

Replacing: 2810056040, 2810056050, 0280005520, 28100-56040

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	90.4mm	2.5KW	16mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 1HZ . TOYOTA LAND CRUISER 4.1L DIESEL/4.2L DIESEL

AOPEC
A012803647, A012803677B

Replacing: 2810017010, 2810017040, 1280008640, 1280008641, 2280001610

Complete Starters

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	12	90.4mm	2.5KW	16mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 1HZ . TOYOTA LAND CRUISER 4.1L DIESEL/4.2L DIESEL

AOPEC
A012803647

Replacing: 2810017060, 2280005992

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	13	55mm	1.2KW	66mm	CCW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). PUSH ON TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: TOYOTA CAMRY 2.0L/2.2L/3.0L, RAV4 2.0L

AOPEC
A012803665

Replacing: 2810074120, 2810074130, 28100-74120, 28100-74130

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	13	65.9mm	1.4KW	18mm	CW

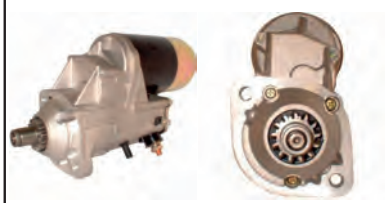
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). THIS UNIT SEEMS TO BE AVAILABLE IN AN INTERCHANGEABLE 9T VERSION

Vehicle Apps: KUBOTA - INDUSTRIAL

AOPEC
A012819628

Replacing: 2280006320, 2280006321

Manuf/Sys: **NIPPON DENSO**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	13	82mm	2.7KW	35mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4239 , 4276 . BOBCAT 1075, 1080, 975, SKID STEER. CLARK SKID STEER. JOHN DEERE - EARTHMOVING

AOPEC
A012819610, A012819610B

Replacing: 2280006470, 2280006471, RE68470, TY24438

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	13	90mm	2.5KW	48mm	CW

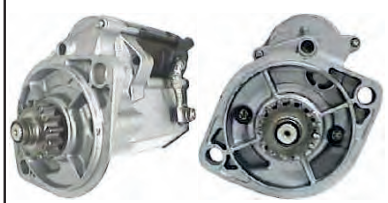
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: BOBCAT SKID STEER. CASE 1830, 1840. CUMMINS - EARTHMOVING

AOPEC
A012803674B

Replacing: 128000-054, 128000054, 128000-0540, 1280000540, 228000-195

Manuf/Sys: **NIPPON DENSO**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	15	94.8mm	1.4KW	21mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: JOHN DEERE - AGRICULTURAL . THERMO KING - INDUSTRIAL . YANMAR - AGRICULTURAL

AOPEC
A012619600, A018719601

Replacing: 12112077011, 1280000710, 5712800071, 451718

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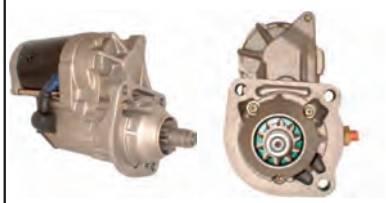
Manuf/Sys: NIPPON DENSO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	88.2mm	5.5KW	47mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 3114 , 3116 , 3176 . CATERPILLAR - EARTHMOVING , 120H, 924F, EL240B, IT12B, IT24B

AOPEC
A012803653, A012803653R

Replacing: 1280005730, 1280005733, 1280005732, 3E5381, 8C4774

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	88.5mm	4.5KW	44.7mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: S4D102E . KOMATSU - EARTHMOVING

AOPEC
A0210409207

Replacing: 0240003060ND, 0240003240ND

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	92mm	7.5KW	47.5mm	CW

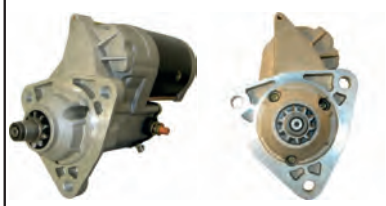
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: CASE - EARTHMOVING , 821C. CUMMINS - EARTHMOVING , - INDUSTRIAL

AOPEC
A0100150002B

Replacing: 2280007380, 2280007381, 2280005630, 2280005631, 10465538

Manuf/Sys: NIPPON DENSO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	10	92mm	5.5KW	46.8mm	CW

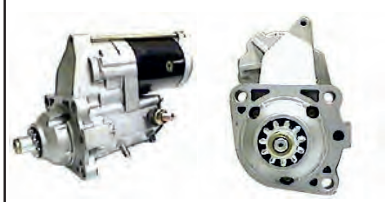
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: CASE - AGRICULTURAL . IVECO CURSOR, STRALIS. NEW HOLLAND - AGRICULTURAL

AOPEC
A010003684

Replacing: 2280007550, 42498115, 99486046

Manuf/Sys: NIPPON DENSO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	88.6mm	7.5KW	48mm	CW

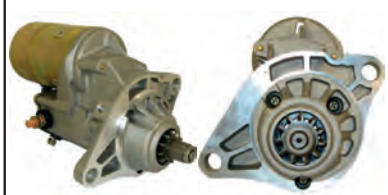
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: JOHN DEERE - AGRICULTURAL , 648

AOPEC
A012803671B

Replacing: 2280006572, RE70475

Manuf/Sys: NIPPON DENSO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	94.7mm	4.5KW	43.5mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

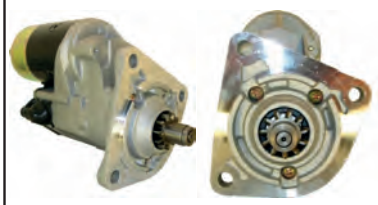
Vehicle Apps: - ENGINE: 6HK . HITACHI - EARTHMOVING . ISUZU - TRUCK/BUS

AOPEC
A012803688B

Replacing: 1811003241, 8980608540

Complete Starters

Manuf/Sys: **NIPPON DENSO**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	99.5mm	4.5KW	26.8mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: EC100 , EH100 , H06C , H07D . HINO FD, FF, FG, KL, KR

AOPEC
A012803683B

Replacing: 6301300041 NIPPON DENSO REPLACEMENT, 281001090 NIPPON DENSO

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	104.6mm	4.5KW	13.8mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4D52 . KOMATSU - FORKLIFTS , FD40W

AOPEC
A011115011

Replacing: 1280001000, 1280001001, 1280001002

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	104.6mm	4.5KW	41mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 6BB1 , 6BD1 , 6BG1 . ISUZU JCM, JCR, SBR, SCR

AOPEC
A012803678B

Replacing: 0280006202, 1811001411

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	104.9mm	5.5KW	58mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 6AS1 , 6SD1 . ISUZU FTR, FTR13, FTR800, FVR, FVR900

AOPEC
A010003651, A012803667R, A012803672BR, A021103621R

Replacing: 1280002450, 1280002451, 1811002301

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	4.5KW	16mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 3B . TOYOTA DYNA 2.2L DIESEL/2.4L DIESEL/3.0L DIESEL/3.4L DIESEL

AOPEC
A012803681

Replacing: 2810056030, 0280005530, 2810056100, 28100-56030

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	4.5KW	55mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 2D . TOYOTA DA110, DA115, DA116, DA6000, FD100, FD150

AOPEC
A012815001

Replacing: 2810077090, 0280005300, 1811001620, 1811001890, 0280005481

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Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	4.5KW	35.5mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID - NIPPON DENSO REPLACEMENT UNIT FOR ORIGINAL HITACHI STARTER

Vehicle Apps: - ENGINE: ND6 . NISSAN CK40, CW40, UG780

AOPEC A010403656B

Replacing: 2330095000ND, 2330096060ND, 2330096106ND

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	4.5KW	27.7mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). NIPPON DENSO REPLACEMENT STARTER FOR ORIGINAL SAWAFUJI UNIT

Vehicle Apps: HINO - TRUCK/BUS

AOPEC A012819634, A0133803606

Replacing: 281002623AND, 03555020015ND

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11		7.5KW		CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: JOHN DEERE - AGRICULTURAL , - EARTHMOVING

AOPEC A012803685

Replacing: 2280007411, 2280007410, RE501060

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	90.7mm	4.5KW	17mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: TOYOTA LAND CRUISER 4.2L

AOPEC A012819614

Replacing: 2280005980, 2810017080

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	13	91mm	8.0KW	46mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: BELL - EARTHMOVING . JOHN DEERE - EARTHMOVING , - INDUSTRIAL

AOPEC A010003611

Replacing: 4280000131, RE522852

Manuf/Sys: NIPPON DENSO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	4.5KW	32mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: NISSAN UD50, UD60, UD70, UD80, UD90, UD95

AOPEC A012803676

Replacing: 23300Z5515ND, S25164AND

Complete Starters

Manuf/Sys: **NIPPON DENSO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	11	104.8mm	5.0KW	9.8mm	CW	A010003622B

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID - REPLACES ORIGINAL MITSUBISHI TYPE STARTER

Vehicle Apps: - ENGINE: FD42 , FD46 . NISSAN CABSTAR 4.2L DIESEL/4.6L DIESEL, UD-SERIES, UD35, UD40

Replacing: M002T78681ND, 233000T005ND, 233000T003ND, M2T78681ND

Manuf/Sys: **NIPPON DENSO**

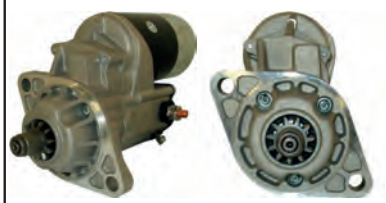
Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	11	105mm	4.5KW	30.4mm	CW	A012515002BR

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). NIPPON DENSO REPLACEMENT FOR ORIGINAL MITSUBISHI AND SAWAFUJI TYPE STARTERS - THIS NIPPON DENSO UNIT CANNOT BE USED ON TOYOTA DYNA APPLICATIONS, ONLY HINO.

Vehicle Apps: - ENGINE: J05ED , J08C , J4 , J6 . HINO - TRUCK/BUS , 500

Replacing: 281002624AND, 281002624ND, 03555020017ND

Manuf/Sys: **NIPPON DENSO**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	11	104.6mm	4.5KW	44mm	CW	A012919600B

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 6H1 . ISUZU FRR, FSR, FSR700, FTR, FTR800

Replacing: 0240003001ND, 0240003020ND, 0240003030ND, 0240003031ND, 0240003041ND

Manuf/Sys: **PRESTOLITE**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
12V	10	88.4mm	4.0KW	20mm	CW	A0110419602

Desc/Notes: M100;M100R.

Vehicle Apps: - ENGINE: TBP226B . DEUTZ - AGRICULTURAL , - EARTHMOVING

Replacing: M100R2004SE, 12187645

Manuf/Sys: **PRESTOLITE**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	10	89.3mm	4.0KW	19.7mm	CW	A010019615

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION). NO SEAL IN DE BRACKET SPIGOT

Vehicle Apps: LIUGONG - EARTHMOVING

Replacing:

Manuf/Sys: **PRESTOLITE**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation	AOPEC
24V	11	92mm	9.0KW	48mm	CW	A013119603

Desc/Notes: M125. PLGR (PLANETARY GEAR REDUCTION). DE BRACKET CAN BE ROTATED TO CHANGE OPENING TO EITHER SIDE

Vehicle Apps: CASE - EARTHMOVING . CATERPILLAR - EARTHMOVING . CUMMINS - EARTHMOVING

Replacing: M125R3001SE, M125R3001SEP, M125701

Manuf/Sys: **PRESTOLITE**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	12	92mm	7.5KW	49mm	CW/

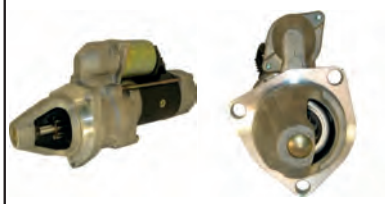
Desc/Notes: M105. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: BELL - EARTHMOVING . MERCEDES-BENZ ACTROS, AXOR

AOPEC: A011003658, A011003658B

Replacing: M105R3031SE, M105431

Manuf/Sys: **SAWAFUJI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	104.5mm	5.5KW	36mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: PE6 , PF6 . NISSAN - TRUCK/BUS , CK10, CK20, CK40, CK41, CW40, CW50, UD290, UG780

AOPEC: A011203602B,A013803604, A018703612

Replacing: 2330096509, 03506020331, 23300-96509

Manuf/Sys: **SAWAFUJI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	4.5KW	30mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: J05ED , J08C , J4 , J6 . HINO - TRUCK/BUS , 500. TOYOTA DYNA

AOPEC: A012515002, A0133803606R

Replacing: 03555020050, 2810078063

Manuf/Sys: **SAWAFUJI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	5.5KW	33mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: FE6 . NISSAN UD50, UD60, UD70, UD80, UD85, UD90, UD95

AOPEC: A0110419601

Replacing: 23300Z5572, 03505020321, 23300-Z5572

Manuf/Sys: **SAWAFUJI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	4.5KW	30.6mm	CW

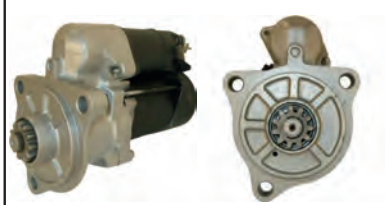
Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: W04D , WU420 . TOYOTA DYNA 7-105

AOPEC: A013803603B

Replacing: 03555020211, 2810078090B, 2810078090, 28100-78090, 03555020212

Manuf/Sys: **SAWAFUJI**



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	105mm	4.5KW	33.3mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: FD6 , FE6 , FE6F , FE6T . NISSAN UD50, UD60, UD70, UD80, UD85, UD90, UD95

AOPEC: A013803607

Replacing: 03555020110, 23300Z5578

Complete Starters

Manuf/Sys: **SAWAFUJI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	121.5mm	6.0KW	48mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: E13C . HINO 700 PROFIA

AOPEC: A013803605

Replacing: 03656020018, 281002865C

Manuf/Sys: **SAWAFUJI**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
24V	11	122mm	6.5KW	39mm	CW

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: RF8 , RG8 . NISSAN UD430

AOPEC: A018703613

Replacing: 2330097510, 03507020612, 03507020610, 03507020611, 2330097517

Manuf/Sys: **VALEO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	63mm	0.85KW	-1.4mm	CW

Desc/Notes: D7E.

Vehicle Apps: RENAULT GRAND SCENIC 1.6L, LAGUNA 1.6L 16V, MEGANE 1.4L 16V/1.6L 16V, SCENIC

AOPEC: A018919626

Replacing: D7E27, D7E47, TS10E3

Manuf/Sys: **VALEO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	64.5mm	0.85KW	-2.5mm	CW

Desc/Notes: D7E. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: E7J , K4J , K7M . RENAULT CLIO 1.4L 16V, KANGOO 1.4L, MEGANE 1.4L, NP200 1.6L 8V, THALIA 1.4L

AOPEC: A018919619B

Replacing: D7E15, 7700274303, 274303

Manuf/Sys: **VALEO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	69.7mm	0.8KW	14.7mm	CW

Desc/Notes: D7ED. DD (DIRECT DRIVE). IMPORTANT NOTE: HAS A CIRCUIT BOARD/CHIP IN THE SOLENOID THAT FORMS PART OF THE IMMOBILZER SYSTEM OF THE VEHICLE.

Vehicle Apps: MERCEDES-BENZ A140, A160, VANEO 1.6L

AOPEC: A0100036185B

Replacing: D7ED281, 1661510001

Manuf/Sys: **VALEO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	70mm	0.7KW	11mm	CW

Desc/Notes: D7E. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: CG10DE , CG12DE , CGA3 , CGA3DE . NISSAN MICRA 1.0L 16V/1.0i/1.2L 16V/1.4L 16V

AOPEC: A010003669B

Replacing: D7E40, 455985, 233001F772

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Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	8	74.7mm	1.0KW	25.6mm	CW

Desc/Notes: TS10E. DD (DIRECT DRIVE).

Vehicle Apps: - ENGINE: 1KRFE . CITROEN C1 1.0L. PEUGEOT 107 1.0 L. TOYOTA AYGO 1.0L

AOPEC: A018919625

Replacing: 281000Q012, TS10E1

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	57.3	0.85KW	-6.3mm	CW

Desc/Notes: D7E. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: CITROEN AX, BERLINGO 1.1L/1.4L/1.6L, BX, C15 1.1L/1.4L, C2, C3 1.1L/1.4L/1.6L, SAXO, XSARA. PEUGEOT 106, 205, 206, 306, 307, PARTNER 1.1L/1.4L. TATA INDICA 1.4L

AOPEC: A018919621

Replacing: D7E2, D7E5, D7E7, 190263, 455748

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	60mm	1.0KW	-4.6mm	CW

Desc/Notes: D6RA. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: B1A , B1E , B6D , D2A , D6A , D6B . CITROEN BERLINGO 1.8L, BX, XANTIA 1.6L/1.8L/2.0L, XM, XSARA 1.8i 16V/2.0L 16V, ZX 1.8i 16V/2.0i 16V. PEUGEOT 205 1.6L, 305 1.6L/1.9L, 405 1.6L/1.8L/1.9L, BOXER 2.0L, PARTNER 1.8L

AOPEC: A018919606

Replacing: D6RA661

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	61.2mm	1.1KW	-2.5mm	CW

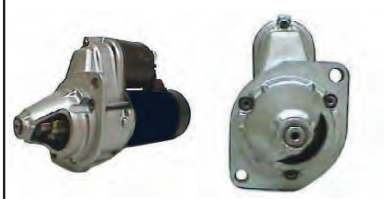
Desc/Notes: D6RA. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: RENAULT LAGUNA 2.0L. VOLVO S40 1.6L/1.8L/2.0L, V40 1.6L/1.8L/2.0L

AOPEC: A018903625

Replacing: D6RA63, D6RA063, 7700865985, 8111635, 455693

Manuf/Sys: VALEO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	76mm	1.2KW	29mm	CCW

Desc/Notes: D6RA. PMGR (PERMANENT MAGNET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: HATZ - INDUSTRIAL . LOMBARDINI - INDUSTRIAL . RUGGERINI - INDUSTRIAL

AOPEC: A0210419600

Replacing: D6RA19, 19F90214

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	91.8mm	3.1KW	20mm	CW

Desc/Notes: D9R. OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: LAND ROVER 2.5L DIESEL/TURBO DIESEL, DEFENDER 2.5L TD/2.5L TDi, DISCOVERY 200TD, RANGE ROVER 2.5L DIESEL. MERCEDES-BENZ SPRINTER

AOPEC: A018903612

Replacing: D9R91, 432539, ERR5009, PRC5109

Complete Starters

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	9	None	1.0KW	-3mm	CW

Desc/Notes: D6G. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: CITROEN BERLINGO 1.6L 16V, C2 1.6L VTS, C3 1.4L 16V/1.6L 16V, C4 1.4L 16V, XSARA 1.4i/1.6L 16V/1.6i. PEUGEOT 106 1.1 L/1.3L/1.4L/1.6L, 205 1.4L, 206 1.1L/1.4L/1.6L 16V, 306 1.1L/1.6L, 307 1.4 L/1.6L 16V, 309 1.1L/1.4L, PARTNER 1.1L/1.4L

AOPEC: A013203601

Replacing: D6G3, 9648644680

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	65.5mm	1.1KW	-1mm	CW

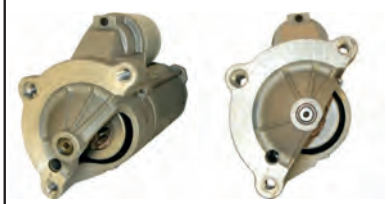
Desc/Notes: D6RA. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: 353A , 357F , 453A , 453F , 553A , 557J , 853A , B400 , B40J , B535 , B53Y , B56B , B57A . RENAULT CLIO 1.2L/1.4L/1. 6L/1.6L 16V, ESPACE 2.0L, KANGOO 1.4L, LAGUNA 1.8L/2.0L, MEGANE 1.4L/1.6L/2.0L/2.0L 16V. VOLVO 440 1 8L/2.0L, 460 1.8L/2.0L, 480 2.0L

AOPEC: A018919616

Replacing: D6RA73, 455738, 438016, 7700100647

Manuf/Sys: VALEO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	67mm	1.4KW	-4.5mm	CW

Desc/Notes: D7R. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: CITROEN DISPATCH, RELAY, XANTIA, XSARA, ZX 1.9L DIESEL. FIAT SCUDO, ULYSSE. PEUGEOT 205, 206, 306, 309, 405, 406 1.9L DIESEL, 607 2 2L HDi, BOXER, EXPERT, PARTNER 1.9L DIESEL. TATA 207 1.9L TELCOLINE

AOPEC: A012315002

Replacing: D7R24, 438013

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	68mm	1.1KW	19mm	CW

Desc/Notes: D6RA. PMGR (PERMANENT MAGNET - GEAR REDUCTION). EYE TERMINAL CONNECTION FOR SOLENOID

Vehicle Apps: - ENGINE: 14NV , 16NV , 18SEH , X18XE1 . DAEWOO ESPERO 1.5L/1.8L/2.0L, LANOS 1.4L/1.5L, NEXIA 1.5L, NUBIRA 1.6L/2. 0L. OPEL ASCONA, ASTRA 1.4i/1.6i/1.8L/180i/2.0L/200i, CORSA 130i/140i/160i, KADETT, MONZA 1.3L/1.4L/1.6L/1.8L, TIGRA, VECTRA, ZAFIRA

AOPEC: A018919618

Replacing: D6RA32, 25A32136, 455699, 455973, 432632

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	70mm	1.25KW	13.8mm	CW

Desc/Notes: D6RA. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: MERCEDES-BENZ A150, A170, A190

AOPEC: A018919614

Replacing: D6RA83, 438079

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	73mm	1.6KW	21.3mm	CW

Desc/Notes: D7G. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: M47D , M47N , N47D . BMW 118d, 120d, 318d, 320d, 520d, X3 2.0L D

AOPEC: A010019611, A018903628B

Replacing: D7G4, 12417787354, 12417787356

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.0KW	54mm	CCW

Desc/Notes: D6GS. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: AZL , BBX , BGU , BSE , BSF , CCSA . AUDI A3 1.6L. SEAT ALTEA 1.6L, IBIZA 2.0L, LEON 1.6L. VOLKSWAGEN GOLF V 1.6L, JETTA 1.6L

AOPEC: A018919623

Replacing: D6GS13, 438173, 02T911023M, 02T911023T

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	76mm	1.1KW	14mm	CW

Desc/Notes: D7E. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: A9A , A9B , A9JA , A9JB , ROCAM . FORD FIESTA 1.3L, KA 1.3L/1.6L

AOPEC: A0110419604

Replacing: D7E33

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	77mm	2.2KW	9.8mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: - ENGINE: 4D56 . HYUNDAI H100 DIESEL. KIA PREGIO 2.5L TCiD. MITSUBISHI PAJERO 2.5L TURBO DIESEL

AOPEC: A018703621B, A018703621R, A018903623R

Replacing: TM000A36101, 3610042350, 36100-42350

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	82.5mm	2.5KW	36.5mm	CW

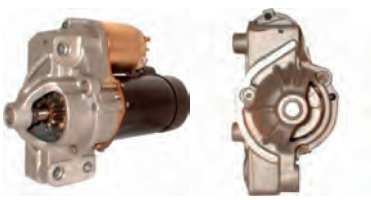
Desc/Notes: D7R. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: JOHN DEERE - AGRICULTURAL , 5200, 5300, 5400

AOPEC: A018919601

Replacing: D7R14, 438012, RE60641

Manuf/Sys: VALEO



Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	10	None	1.3KW	-1.5mm	CW

Desc/Notes: D6RA. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: - ENGINE: ES9 , L7X7 . CITROEN C5 3.0L, C8 3.0L. FIAT ULYSSE 3.0L. PEUGEOT 406 3.0L, 407 3.0L, 607 2.9L/3.0L, 807 3.0L. RENAULT AVANTIME 3.0L, CLIO 3.0L, LAGUNA 3.0L

AOPEC: A0110419600

Replacing: D6RA107, 455956, 438087

Manuf/Sys: VALEO

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	64.6mm	2.1KW	-1mm	CW

Desc/Notes: D7G;D7R. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: NISSAN INTERSTAR 1.9L DCi, PRIMASTAR 1.9L DCi, PRIMERA 1 9L DCi. RENAULT ESPACE 1.9L DCi, LAGUNA 1.9L DCi, SCENIC 1.9L DCi

AOPEC: A018919604, A018919604B

Replacing: D7G5, D7R44, D7R47, D7R49

Complete Starters

Manuf/Sys: **VALEO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	82.4mm	2.2KW	25.6mm	CW

Desc/Notes: D7R. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: MERCEDES-BENZ C220CDi, C250 DIESEL, C270CDi, E200CDi, E220CDi, E250D, E270CDi, E280CDi, E300TD, SPRINTER DIESEL, VARIO 2.9L DIESEL, VIANO, VITO 2.3L DIESEL. SSANGYONG - LDV/VAN/MPV/4X4/PICK-UP

AOPEC: A010003608B

Replacing: D7R43, 0051511301, 455720

Manuf/Sys: **VALEO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	89mm	2.7KW	49mm	CW

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION). GEAR IS OFF-SET RELATIVE TO MOUNTING HOLES - MANDO-VALEO UNIT

Vehicle Apps: BOBCAT - EARTHMOVING , SKID STEER. INGERSOLL RAND BOBCAT 573

AOPEC: A018919603

Replacing: TM000A28901, 6685190, 6676957, DSL6685190, DSL6676957

Manuf/Sys: **VALEO**

Volts	Teeth	Spigot	Kilowatts	Drv/Rest	Rotation
12V	11	None	1.4KW	13.7mm	CW

Desc/Notes: D6RA. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: CITROEN BERLINGO 1.6L HDi, C1 1.4L HDi, C2 1.4L HDi, C3 1.4L HDi/1.6L HDi, C4 1.6L HDi, C5 1.6L HDi, XSARA 1.4L HDi/1.6L HDi. PEUGEOT 1007 1.4L HDi/1.6L HDi, 206, 207, 307, 308, 407, EXPERT, PARTNER

AOPEC: A018903627B

Replacing: D6RA110, 455982, 966401698001, 9664016980, 9646679980

Manuf/Sys: **BOSCH**

Volts	Length	OD	
12V	148.8mm	58.8mm	13 Splines 23 Segments

Desc/Notes: DB;DW;R78-M25. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001109..., 0001125... SERIES

Vehicle Apps: . LOMBARDINI. MERCEDES-BENZ. VOLVO

AOPEC: A010400100

Replacing: 1004011088, 1004011072, 9948377, 9947827, 281600B020

Manuf/Sys: **BOSCH**

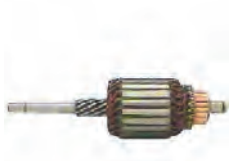
Volts	Length	OD	
12V	207mm	60mm	10 Splines 23 Segments

Desc/Notes: EF. DD (DIRECT DRIVE). 0001211... AND 9000333... SERIES

Vehicle Apps: . AUDI. FIAT. FORD. HONDA. MAZDA. NISSAN. OPEL. TOYOTA. VOLKSWAGEN

AOPEC: A010400103

Replacing: 1004012420, 1004012446, 1004012912, 1004012400, SA9303N



Manuf/Sys: **BOSCH**

Volts	Length	OD	
12V	217mm	60mm	10 Splines 23 Segments

Desc/Notes: EF. DD (DIRECT DRIVE). 9000692... | 0001211... SERIES

Vehicle Apps: . PORSCHE 914. VOLKSWAGEN BEETLE, FOX 1.3L, 1.6 L, 1.8L, GOLF CITI 1.3L, 1.6L, 1.8L, I BAKKIE 1.8L, II 1.8L, III 1.6L, 1.8L, JETTA, KOMBI, STATION WAGON

AOPEC: A030400124

Replacing: 1004012413, 1004012913, 1004012915, 055911311B, SA9310N

Manuf/Sys: **BOSCH**

Volts	Length	OD	
12V	290mm	75mm	10 Splines 21 Segments

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001362... | 0001366... AND 9000143... SERIES

Vehicle Apps: . ADE. BELL. BOMAG. DEUTZ. FAHR. FENDT. FIAT TRACTORS. GOLDONI. INGERSOLL RAND. KHD. LINDE. MAGIRUS-DEUTZ. MERCEDES-BENZ. SAME. STEYR

AOPEC: A010400124

Replacing: 2004004074, SA927N

Manuf/Sys: **BOSCH**

Volts	Length	OD	
12V	290mm	75mm	10 Splines 21 Segments

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001362... SERIES

Vehicle Apps: . ADE. BELL. BOMAG. DEUTZ. FENDT. FIAT TRACTORS. INTERNATIONAL HARVESTER. IVECO. KHD. LINDE. LOMBARDINI. MAGIRUS-DEUTZ. MERCEDES-BENZ. SAME. STEYR. TOYOTA HINO

AOPEC: A010400161J

Electrolog: ARM1085

Replacing: 2004004092, 2004014952, SA9285N

Manuf/Sys: **BOSCH**

Volts	Length	OD	
12V	312mm	74.9mm	10 Splines 21 Segments

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001362..., 0001366... SERIES

Vehicle Apps: . CASE. DEUTZ. FENDT. INTERNATIONAL HARVESTER. KHD. MERCEDES-BENZ

AOPEC: A010400171

Replacing: 2004004076, 2004004091, 2004004094, 2004014953

Manuf/Sys: **BOSCH**

Volts	Length	OD	
12V	334mm	72.5mm	3 Splines 21 Segments

Desc/Notes: JD. DD (DIRECT DRIVE). 0001358... SERIES

Vehicle Apps: . BOMAG. DEUTZ. FIAT TRACTORS. IVECO. JOHN DEERE. KHD. MAGIRUS-DEUTZ. SAME. SAVIEM. STEYR

AOPEC: A010000109

Replacing: 2004004081, AL19229, 1299235, 8122135, SA9201N

Armatures

Manuf/Sys: **BOSCH**

Volts	Length	OD	
			10 Splines
12V	334mm	75mm	33 Segments

Desc/Notes: ID;JD. DD (DIRECT DRIVE). 0001359…, 9000143… SERIES - NO BAKELITE

Vehicle Apps: . ADE. DEUTZ. FIAT TRACTORS. FORD CARGO TRUCK, TRACTORS. JOHN DEERE. KHD. LEYLAND. MACK. MAN. MASSEY FERGUSON. MERCEDES-BENZ. PERKINS. SAME. STEYR. TOYOTA HINO

AOPEC: A010400143

Replacing: 2004004112, 2004004061, SA9204N, 084059112

Manuf/Sys: **BOSCH**

Volts	Length	OD	
			10 Splines
12V	337mm	75mm	21 Segments

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001367… AND 9000143 SERIES

Vehicle Apps: . ADE. BELL. CASE. CATERPILLAR. CLAAS. DEUTZ. FIAT TRACTORS. FORD. JOHN DEERE. MAGIRUS-DEUTZ. MERCEDES-BENZ. NEW HOLLAND. PERKINS. SAME. SAMIL. TOYOTA HINO

AOPEC: A010400136

Replacing: 2004004003, 2004014960, 2004004006, SA9212N, 084059003

Manuf/Sys: **BOSCH**

Volts	Length	OD	
12V	367mm	82.8mm	37 Segments

Desc/Notes: BNG. DD (DIRECT DRIVE). 0001401… SERIES

Vehicle Apps: . BEDFORD. CLAAS. DEUTZ. LIEBHERR. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ. VOLVO

AOPEC: A010400137

Replacing: 2004005051, 2004005917, SA9100N

Manuf/Sys: **BOSCH**

Volts	Length	OD	
			16 Splines
24V	169mm	60mm	23 Segments

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001231… SERIES

Vehicle Apps: . BELL. DAF. DEUTZ. IVECO. KHD. MAN. MANITOU. MERCEDES-BENZ ATEGO, CITARO, CITO, CONECTO, ECONIC, INTEGRO, VARIO. RENAULT MIDLINER. VOLVO TRUCK AND BUS

AOPEC: A010400169R

Replacing: 9003334039, 6033AD0285, 6033AD4013, 6033AD4080, SA9453N

Manuf/Sys: **BOSCH**

Volts	Length	OD	
			13 Splines
24V	173.9mm	60mm	23 Segments

Desc/Notes: HEF95L. PLGR (PLANETARY GEAR REDUCTION). 0001241… SERIES

Vehicle Apps: . DAF. MAN. MERCEDES-BENZ

AOPEC: A010400101

Replacing: 6033AD5148

Manuf/Sys: **BOSCH**

Volts	Length	OD	
24V	235mm	83mm	29 Segments

Desc/Notes: KB. DD (DIRECT DRIVE). 0001414…, 0001415…, 0001416… SERIES - SHORT

Vehicle Apps: . ADE. BELL. DEUTZ. ERF. INTERNATIONAL. ISUZU. IVECO. KHD. LIEBHERR. MAN. MERCEDES-BENZ. NISSAN. SAMIL. SCANIA. TOYOTA HINO. VOLVO

AOPEC: A010400160B

Replacing: 2004005153, 2004005022, 2004005046, 2004005037, SA9105N

Manuf/Sys: **BOSCH**

Volts	Length	OD	
24V	270mm	83mm	29 Segments

Desc/Notes: KB. DD (DIRECT DRIVE). 0001410… AND 9000084… SERIES - LONG

Vehicle Apps: . ADE. BEDFORD. BELL. DEUTZ. ERF. INTERNATIONAL HARVESTER. ISUZU. IVECO. KHD. MAN. MERCEDES-BENZ. SAMIL. SCANIA. TOYOTA HINO. VOLVO

AOPEC: A010400157

Replacing: 2004005025, SA9104N, 084060025

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Manuf/Sys: **BOSCH**

Volts	Length	OD	
24V	298mm	80mm	21 Segments

Desc/Notes:

Vehicle Apps: . TRUCK AND BUS

AOPEC: A010000112

Replacing: 2134015050

Manuf/Sys: **BOSCH**

Volts	Length	OD	
24V	314mm	100mm	38 Segments

Desc/Notes: QB. DD (DIRECT DRIVE). 0001510… SERIES - ROUND CLUTCH HOUSING - STARTER LOOKS LIKE KB BUT IS MUCH BIGGER

Vehicle Apps: . DEUTZ. IVECO. KHD. LIEBHERR. MERCEDES-BENZ. SAMIL

AOPEC: A010400154

Replacing: 2004006101, 2004006102, 2004006091, 1290084, SA9QBN

Manuf/Sys: **BOSCH**

Volts	Length	OD	
			10 Splines
24V	337mm	75mm	33 Segments

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001368…, 9000143… SERIES

Vehicle Apps: . ADE. BELL. DAF. DEUTZ. FORD TRACTORS AND TRUCKS. INTERNATIONAL. ISUZU. IVECO. JOHN DEERE. KHD. MAN. MASSEY FERGUSON. MERCEDES-BENZ. MITSUBISHI. NISSAN. PERKINS. TOYOTA HINO

AOPEC: A010400168

Replacing: 2004004033, 2004014975, 2004004032, 2004004035, SA9213N

Manuf/Sys: **BOSCH**

Volts	Length	OD	
			19 Splines
24V	370mm	75mm	29 Segments

Desc/Notes: IE;JE. DD (DIRECT DRIVE). 0001372… SERIES

Vehicle Apps: . BELL. DAF 95XF, CF85. MERCEDES-BENZ ACTROS, AXOR, TRAVEGO

AOPEC: A010400173

Replacing: 2004014034, SA9221N, CS165, 084014034

Manuf/Sys: **BOSCH**

Volts	Length	OD	
			19 Splines
24V	393mm	74.9mm	21 Segments

Desc/Notes: IE. DD (DIRECT DRIVE). 0001370…, 0001371… SERIES

Vehicle Apps: . DAF. LEYLAND. MAN. MERCEDES-BENZ. SCANIA

AOPEC: A011000102

Replacing: 2004014028, 2004014029, SA9290N

Manuf/Sys: **DELCO**

Volts	Length	OD	
			12 Splines
12V	161.8mm	60.2mm	23 Segments

Desc/Notes: 29MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . CASE. CUMMINS

AOPEC: A011000108

Replacing: 10515833

Manuf/Sys: **DELCO**

Volts	Length	OD	
			8 Splines
12V	177mm	60mm	23 Segments

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION). CE BEARING: BEA6200 - DE BEARING: BEA6003

Vehicle Apps: . ALLIS CHALMERS. BOBCAT. CASE. CATERPILLAR. CLARK. CUMMINS. DEUTZ. FORD. HYSTER. INGERSOLL RAND. JOHN DEERE. MASSEY FERGUSON. MELROE BOBCAT. MERCEDES-BENZ. NEW HOLLAND. PERKINS. THERMO KING

AOPEC: A011100127B

Replacing: 10456466, 10457618, 0231000311, 0231000316, SA220N

Armatures

Manuf/Sys: **DELCO**

Volts	Length	OD	
12V	196.6mm	76.2mm	20 Splines 21 Segments

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . CATERPILLAR. CUMMINS. FREIGHTLINER. VOLVO

AOPEC: A011100103B, A021003804

Replacing: 10516266, 10511758, 0282008330

Manuf/Sys: **DELCO**

Volts	Length	OD	
12V	335mm	74.3mm	6 Splines 23 Segments

Desc/Notes: 20MT;22MT;25MT;27MT. DD (DIRECT DRIVE).

Vehicle Apps: . ALLIS CHALMERS. BOBCAT. CLARK FORKLIFT. HYSTER. JOHN DEERE. PERKINS. YALE

AOPEC: A011100101

Replacing: 1950417, 1969375, 1949190, SA211N, CS89

Manuf/Sys: **DELCO**

Volts	Length	OD	
12V	355mm	86mm	6 Splines 25 Segments

Desc/Notes: 30MT. DD (DIRECT DRIVE).

Vehicle Apps: . HYSTER FORKLIFT

AOPEC: A011100105R

Replacing: 1967042, 1942244, 1932872, SA202N

Manuf/Sys: **DELCO**

Volts	Length	OD	
12V	390.9mm	84.5mm	3 Splines 29 Segments

Desc/Notes: 37MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. DRESSER. FORD. INTERNATIONAL HARVESTER. JOHN DEERE. KENWORTH

AOPEC: A1985249

Replacing: 1985249, 1987175, SA237N, CS49

Manuf/Sys: **DELCO**

Volts	Length	OD	
12V	390.5mm	84mm	19 Splines 29 Segments

Desc/Notes: 41MT. DD (DIRECT DRIVE).

Vehicle Apps: . CHEVROLET. FORD. FREIGHTLINER. INTERNATIONAL. JOHN DEERE. KENWORTH. MACK. PETERBILT

AOPEC: A10473852

Replacing: 10473852

Manuf/Sys: **DELCO**

Volts	Length	OD	
12V	393mm	85mm	3 Splines 25 Segments

Desc/Notes: 35MT. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. CATERPILLAR. HYSTER. JOHN DEERE

AOPEC : A011000106

Replacing: 1967045, 1948999, 1946391, 665389, SA216N

Manuf/Sys: **DELCO**

Volts	Length	OD	
12V	451mm	84.5mm	19 Splines 25 Segments

Desc/Notes: 42MT. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. CATERPILLAR. FORD. INGERSOLL RAND. INTERNATIONAL EAGLE. JOHN DEERE. MACK. VOLVO

AOPEC: A011100141B

Replacing: 1987989, SA241N

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Manuf/Sys: **DELCO**

Volts	Length	OD	
24V	177mm	60mm	8 Splines 23 Segments

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION). CE BEARING: BEA6200 - DE BEARING: BEA6003

Vehicle Apps: . BELL. CLARK FORKLIFT. CUMMINS. MACK. MERCEDES-BENZ ATEGO, CITARO, ECONIC, VARIO. PERKINS

AOPEC: A011100128B

Replacing: 10457117, 10457622, SA222N

Manuf/Sys: **DELCO**

Volts	Length	OD	
24V	198mm	75.5mm	20 Splines 21 Segments

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . ALLIS CHALMERS. CASE. CATERPILLAR. CLARK. CUMMINS. FIAT-ALLIS. FREIGHTLINER. HYUNDAI. INTERNATIONAL. KENWORTH. VOLVO

AOPEC: A011100102B

Replacing: 10511750

Manuf/Sys: **DELCO**

Volts	Length	OD	
24V	390.9mm	84.5mm	3 Splines 29 Segments

Desc/Notes: 37MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. INGERSOLL RAND. INTERNATIONAL. MACK

AOPEC: A1988322B

Replacing: 1988322

Manuf/Sys: **DELCO**

Volts	Length	OD	
24V	392mm	84.5mm	19 Splines 29 Segments

Desc/Notes: 41MT. DD (DIRECT DRIVE).

Vehicle Apps: . BOBCAT. CATERPILLAR. CUMMINS. DETROIT DSL. ERF. INGERSOLL RAND. MACK. PERKINS

AOPEC: A011100154B

Replacing: 10472559, 9X3412, 3E7855, SA243N

Manuf/Sys: **DELCO**

Volts	Length	OD	
24V	451mm	84.5mm	19 Splines 25 Segments

Desc/Notes: 42MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. ERF. FODEN. INGERSOLL RAND. INTERNATIONAL. MACK

AOPEC: A011100153,A011100153B, A011100153V

Replacing: 1988435, 7T3276, SA242N

Manuf/Sys: **DELCO**

Volts	Length	OD	
24V	483mm	95.8mm	19 Splines 25 Segments

Desc/Notes: 50MT. DD (DIRECT DRIVE). 6-POLE STARTER - SHORT

Vehicle Apps: . CATERPILLAR. CUMMINS. DRILLTECH. ERF. EUCLID. KENWORTH. KOMATSU. LOCOMOTIVE. OSHKOSH

AOPEC: A011100152B

Replacing: 1945840, 1953233, 7M8651, 1211396H1, SA212N

Manuf/Sys: **DELCO**

Volts	Length	OD	
24V	530mm	96mm	19 Splines 25 Segments

Desc/Notes: 50MT. DD (DIRECT DRIVE). LONG

Vehicle Apps: . CATERPILLAR. CUMMINS. DRILLTECH. ERF. EUCLID. KENWORTH. KOMATSU. LOCOMOTIVE. OSHKOSH

AOPEC: A011100151B

Replacing: 1951254, 3T5425, 7M0323, SA213N

Armatures

Manuf/Sys: **DELCO**

Volts	Length	OD	
32V;24V	467mm	84.2mm	19 Splines 25 Segments

Desc/Notes: 40MT. DD (DIRECT DRIVE).

Vehicle Apps: . CUMMINS. ERF. FODEN. INGERSOLL RAND. MACK

AOPEC: A011100124, A011100124L

Replacing: 1945500, 1945511, 4M1868, 73116874, SA201N

Manuf/Sys: **HITACHI**

Volts	Length	OD	
12V	166.5mm	60mm	11 Splines 25 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU. YANMAR

AOPEC: AYM121254-77402

Replacing: YM12125477402

Manuf/Sys: **HITACHI**

Volts	Length	OD	
12V	180mm	53mm	11 Splines 27 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). TAKES BEARINGS: BEA6903 OR BEA6903ZZ (SPLINES END) AND BEA0608 (COMM END)

Vehicle Apps: . HYSTER. ISUZU 2.5L AND 2.8L DIESEL. KOMATSU. LINDE. NISSAN 1-TONNER 2.5L DIESEL, 2.7L DIESEL BAKKIE, CABSTAR 2.7L, HARDBODY 2.7L, TERRANO 2.7L DIESEL. THERMO KING. YANMAR

AOPEC: A011900100

Replacing: 213061004, 213081004, 233100Y000, 8944355610, SA871N

Manuf/Sys: **ISKRA**

Volts	Length	OD	
12V	176mm	62.6mm	15 Splines 23 Segments

Desc/Notes: AZF. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . JOHN DEERE

AOPEC: A017900101

Replacing: 16.908.339

Manuf/Sys: **ISKRA**

Volts	Length	OD	
12V	307.2mm	75.2mm	10 Splines 21 Segments

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. DEUTZ. IVECO. JCB. MASSEY FERGUSON. NEW HOLLAND

AOPEC: A017900103

Replacing: 16.360.524

Manuf/Sys: **LUCAS**

Volts	Length	OD	
12V	238mm	54mm	12 Splines 29 Segments

Desc/Notes: M83. DD (DIRECT DRIVE).

Vehicle Apps: . DAEWOO ESPERO, LANOS, NEXIA, NUBIRA. OPEL AGILA, ASCONA, ASTRA, COMBO, CORSA, KADETT, MONZA, TIGRA, VECTRA, ZAFIRA

AOPEC: A012300183

Replacing: 66240713, CS27, SA14N

Manuf/Sys: **LUCAS**

Volts	Length	OD	
12V	302.5mm	74.5mm	12 Splines 23 Segments

Desc/Notes: 2M113;M45G;3SM114. DD (DIRECT DRIVE).

Vehicle Apps: . FIAT. IVECO. MASSEY FERGUSON. NEW HOLLAND

AOPEC: A012300133

Replacing: 54248609, TIB107

Manuf/Sys: **LUCAS**

Volts	Length	OD	
12V	302mm	74.5mm	12 Splines 23 Segments

Desc/Notes: 2M113;M45G. DD (DIRECT DRIVE). FAST

Vehicle Apps: . ADE. BELL. CASE. FORD TRACTORS. HYSTER. LANDINI. MASSEY FERGUSON. PERKINS

AOPEC: A012300181

Replacing: 54247379, TIB108, CS28, SA5N

Manuf/Sys: **LUCAS**

Volts	Length	OD	
12V	302mm	84mm	12 Splines 21 Segments

Desc/Notes: M50;M127. DD (DIRECT DRIVE). SLOW

Vehicle Apps: . ADE. CASE. DEUTZ. FORD TRACTOR, TRUCKS. FORDSON TRACTORS. HYSTER. INTERNATIONAL HARVESTER. JCB. KHD. LANDINI. LEYLAND. MASSEY FERGUSON. NEW HOLLAND. PERKINS

AOPEC: A012300176

Replacing: 54243590, TJB103, CS26

Manuf/Sys: **LUCAS**

Volts	Length	OD	
12V	310mm	53.7mm	4 Splines 29 Segments

Desc/Notes: M35G. INERTIA.

Vehicle Apps: . AUSTIN. FORD CORTINA, ESCORT

AOPEC: A012300131

Replacing: 54254042, TBG104, CS1C, SA1CN

Manuf/Sys: **LUCAS**

Volts	Length	OD	
12V	329mm	83.9mm	12 Splines 21 Segments

Desc/Notes: M50. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. INTERNATIONAL HARVESTER. PERKINS

AOPEC: A012300180

Replacing: 54243592, 60251459, TJB104, CS29, SA29N

Manuf/Sys: **LUCAS**

Volts	Length	OD	
12V	338mm	74mm	6 Splines 23 Segments

Desc/Notes: M45G. DD (DIRECT DRIVE). STRAIGHT SPLINE

Vehicle Apps: . ADE. CASE. FORD TRACTORS. HYSTER. LANDINI. MASSEY FERGUSON. PERKINS

AOPEC: A012300179

Replacing: 54251818, TIB113, CS15B, SA7N

Manuf/Sys: **LUCAS(TVS)**

Volts	Length	OD	
12V	247.5mm	74.4mm	12 Splines 23 Segments

Desc/Notes: 2M14. DD (DIRECT DRIVE).

Vehicle Apps: . TATA TELCOLINE

AOPEC: A012300135

Replacing: 26253642

Manuf/Sys: **MITSUBISHI**

Volts	Length	OD	
24V	152mm	53.5mm	9 Splines 25 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . CATERPILLAR. FURUKAWA. MITSUBISHI CANTER. NISSAN CABALL, CABSTAR, UD

AOPEC: A010000105

Replacing: M106X29371, ME700136, 233100T003, M106X56471, SA136N

Armatures

Manuf/Sys: **MITSUBISHI**

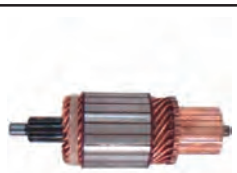
Volts	Length	OD	
24V	170.2mm	53.8mm	13 Splines 23 Segments

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . BELL. CATERPILLAR. MITSUBISHI FUSO

AOPEC: A012500101

Replacing: M105X43671, ME701446, M106X43672



Manuf/Sys: **MITSUBISHI**

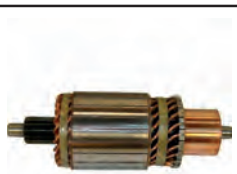
Volts	Length	OD	
24V	177mm	60.4mm	13 Splines 23 Segments

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION). FITS M9T60371

Vehicle Apps: . RENAULT KERAX

AOPEC: A012500103

Replacing:



Manuf/Sys: **MITSUBISHI**

Volts	Length	OD	
24V	195.7mm	68mm	14 Splines 21 Segments

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . HITACHI INDUSTRIAL. MERCEDES-BENZ. MITSUBISHI. NISSAN TRUCK. VOLVO

AOPEC: A012500122R

Replacing: M106X45071, SA5036N

Manuf/Sys: **NIKKO**

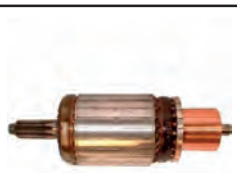
Volts	Length	OD	
12V	174mm	48.5mm	8 Splines 21 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). FITS STARTER: STR8831

Vehicle Apps: . KOMATSU FORKLIFT

AOPEC: A0-23100-0201

Replacing: 0231000200, 0231000201, 7231000160, 7231000240, 7231000330



Manuf/Sys: **NIKKO**

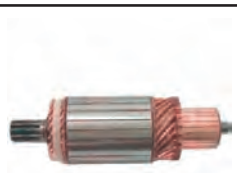
Volts	Length	OD	
24V	187mm	60mm	9 Splines 23 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). FITS STARTER NUMBER: 0240003060, 6008634410

Vehicle Apps: . JOHN DEERE. KOMATSU

AOPEC: A012900108

Replacing: 0241000030



Manuf/Sys: **NIKKO**

Volts	Length	OD	
24V	191mm	59.5mm	11 Splines 23 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). SMALL NOSE STARTER OSGR

Vehicle Apps: . KOMATSU WA150, WA180

AOPEC: A012900122

Replacing: 0231000161, 1231000160, 7231000220, 7231000190

Manuf/Sys: **NIKKO**

Volts	Length	OD	
24V	209mm	74.5mm	9 Splines 21 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU

AOPEC: A01200114B,A012900114R

Replacing: 0231000231, 0231000230, KD0231000230, 0-23100-0230, SA750N

Manuf/Sys: **NIKKO**

Volts	Length	OD	
24V	211.7mm	74.5mm	10 Splines 21 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU

AOPEC: A012900115, A012900115R

Replacing: 0231000430

Manuf/Sys: **NIKKO**

Volts	Length	OD	
24V	214mm	64.6mm	9 Splines 21 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU EARTHMOVING AND INDUSTRIAL

AOPEC: A012900113B, A012900113R

Replacing: 0231000251, 7231000310

Manuf/Sys: **NIKKO**

Volts	Length	OD	
24V	219.4mm	74.6mm	9 Splines 21 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . ISUZU. KOMATSU EARTHMOVING AND INDUSTRIAL

AOPEC: A012900112

Replacing: 0231000121, 1231000120, 1811210330, 7231000040

Manuf/Sys: **NIKKO**

Volts	Length	OD	
24V	226.6mm	74.5mm	11 Splines 21 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . ISUZU

AOPEC: A012900125, A144815261B

Replacing: 0231000261, 0510001910

Manuf/Sys: **NIPPON DENSO**

Volts	Length	OD	
12V	187mm	60mm	9 Splines 23 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . BOBCAT. CASE. CLARK. CUMMINS. FORD. ISUZU. JOHN DEERE. KUBOTA. TOYOTA CRESSIDA 2.2L DIESEL, DYNA, HIACE 2.2L DIESEL, TD, 2.4L DIESEL, HILUX 2.4L DIESEL, TD, LAND CRUISER 2.4L DIESEL, TD

AOPEC: A012800101, A012800103

Replacing: 2816047040, 0282001780, 28160-47040, SA360N

Manuf/Sys: **PRESTOLITE**

Volts	Length	OD	
24V	238mm	79.5mm	9 Splines 29 Segments

Desc/Notes: STEERING MOTOR

Vehicle Apps: . CATERPILLAR

AOPEC: A1431001003

Replacing:

Manuf/Sys: **PRESTOLITE**

Volts	Length	OD	
24V	245mm	79.8mm	9 Splines 29 Segments

Desc/Notes: DD (DIRECT DRIVE). 143103602 MOTOR

Vehicle Apps: . CATERPILLAR

AOPEC: A1431001002

Replacing: MBD2506B, MBD2556A, 1431001002, MBD3556A, 16914

Armatures

Manuf/Sys: **SAWAFUJI**

Volts	Length	OD	
24V	170mm	58mm	8 Splines 25 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . HINO

AOPEC: A013802705

Replacing: 132009801X0

Manuf/Sys: **SAWAFUJI**

Volts	Length	OD	
24V	170mm	59.4mm	8 Splines 25 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . HINO

AOPEC: A0138001002

Replacing: 132007710X0

Manuf/Sys: **SAWAFUJI**

Volts	Length	OD	
24V	218mm	74.8mm	12 Splines 21 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU. TOYOTA HINO

AOPEC: A0138001001

Replacing: 132007800X0, 281601460

Manuf/Sys: **SAWAFUJI**

Volts	Length	OD	
24V	238.7mm	75mm	14 Splines 21 Segments

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU EARTHMOVING AND INDUSTRIAL

AOPEC: A012900123

Replacing: 132006340X0

Manuf/Sys: **VALEO**

Volts	Length	OD	
12V	141mm	50mm	16 Splines 19 Segments

Desc/Notes: D7R. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . FIAT. JOHN DEERE. MERCEDES-BENZ. PEUGEOT. RENAULT. VOLVO

AOPEC: A010000111

Replacing: 594112, 182591, NE824, 594278

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
8	26mm	58.5mm	10 Spline	Clock

Desc/Notes: EF. DD (DIRECT DRIVE). 9000692...SERIES

Vehicle Apps: . FORD BANTAM, COURIER, LASER. MAZDA 323, ASTINA, B1600, B1800, B2000, B2200, DRIFTER, ETUDE, RUSTLER. TOYOTA CONQUEST 1.3L, COROLLA 1.3L

AOPEC: A010402838B

Replacing: 9001690067

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	25mm	47.6mm	10 Splines	Clock

Desc/Notes: DM. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . CITROEN BERLINGO, C2, C3, XSARA. MERCEDES-BENZ C240, C280, C320, CLK320, SL500. OPEL ASTRA, CORSA, VECTRA, ZAFIRA. PEUGEOT 1007, 106, 206, 207, 306, 307, PARTNER. TATA INDICA

AOPEC: A010402801R, A0104028134, A0104028998

Replacing: 1006209633, 1006209715, 1006209706, F000AL1324, 5835C7

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	25.8mm	50mm	10 Spline	Clock

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001107... SERIES; 0001108... SERIES

Vehicle Apps: . AUDI. CITROEN. FIAT. MERCEDES-BENZ. PEUGEOT. VOLKSWAGEN. VOLVO

AOPEC: A010402894

Replacing: 1006209618, 1006209677, 1006209638, 1006209690, 9947831

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	25mm	56.5mm	10 Spline	Anti-Clock

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . SEAT. VOLKSWAGEN FOX, GOLF I, II, III, JETTA I, II, PASSAT, POLO CLASSIC, PLAYA, TRANSPORTER

AOPEC: A010402808Z

Replacing: 1006209585, 1006209916, 020911335A

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	25.5mm	58.5mm	10 Spline	Anti-Clock

Desc/Notes: DM. PMDD (PERMANENT MAGNET - DIRECT DRIVE);PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . VOLKSWAGEN FOX 1.3L, 1.6L, 1.8L, GOLF I 1.3L, 1.6L, 1.8L, II 1.8L, III 1.6L, 1.8L, 1.9L DIESEL, 2.8I VR6, JETTA, PASSAT 2.8L VR6, POLO 1.4i, 1.6i, 1.8i, VENTO 1.9L DIESEL, 2.8L VR6

AOPEC: A010402816,A010402837

Replacing: 1006209921, 1006209544, 1006209543, F000AL1520

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	25mm	58.5mm	10 Spline	Clock

Desc/Notes: DW;DM;EF. DD (DIRECT DRIVE);PMDD (PERMANENT MAGNET - DIRECT DRIVE);PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . ALFA ROMEO. AUDI. BMW. CITROEN. FIAT. MERCEDES-BENZ. OPEL. SSANGYONG. VOLKSWAGEN. VOLVO

AOPEC: A010402805, A010402831R

Replacing: 1006209526, 1006209506, 1006209536, 049911335A, 9941314

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	25mm	58.5mm	10 Spline	Clock

Desc/Notes: DW;EF. DD (DIRECT DRIVE);PMDD (PERMANENT MAGNET - DIRECT DRIVE);PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . BMW. CITROEN. OPEL. PEUGEOT. VOLKSWAGEN

AOPEC: A0104028150

Replacing: 1006209536, 1006209563

Bendix Drives

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	25mm	64mm	10 Spline	Clock

Desc/Notes: EF;GF. DD (DIRECT DRIVE). 0001208…, 0001211…, 0001311…, 0001316…, 9000142…, 9000333… SERIES

Vehicle Apps: . ALFA ROMEO. AUDI. FIAT. MAZDA. MERCEDES-BENZ. PEUGEOT. PORSCHE. RENAULT. VOLKSWAGEN

AOPEC: A0104028117B

Replacing: 1006209404, 1006209470, 1006209414, 1006209447, 1006209410

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	25mm	64mm	10 Spline	Clock

Desc/Notes: EF;GF. DD (DIRECT DRIVE).

Vehicle Apps: . AUDI 100, 200, 500, 80. BMW 320, 320i, 325i, 520, 520i, 525, 525i. PORSCHE 924. VOLKSWAGEN GOLF 1.1L LS AND GL, 1.3L LS AND GL, 1500 DIESEL, PASSAT 1.3L, 1.5L DIESEL, 1.6L GLS DIESEL SEDAN AND STATION WAGON, 1600 GLS, LS, SE

AOPEC: A010402845

Replacing: 1006209412, 1006209439

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	25mm	66mm	10 Spline	Anti-Clock

Desc/Notes: EF. DD (DIRECT DRIVE).

Vehicle Apps: . PORSCHE 914 1.7L, 1.8L. VOLKSWAGEN 2.0i MICROBUS, BEACH BUGGY, BEETLE 1.3L/1300, 1.5L/1500, 1.6 L/1600/1600S SUPER BUG, KOMBI, STATION WAGON 1.6L, 1.7L, 1.8L

AOPEC: A0104028991

Replacing: 1006209061, 1006209104, 1006209233, 1006209339, 2006209161

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	28.6mm	48.3mm	16 Splines	Clock

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). FITS STARTER: 0001108401

Vehicle Apps: . BMW 316i, 318i, 318is, 320i, 323i, 325i, 328i, 330i, 520i, 525i, 528i, 530i, M3, Z3. NISSAN HARDBODY 2.0L, 2.4L, TERRANO 2.4L

AOPEC: A010402826

Replacing: 1006209808

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	28.6mm	49mm	10 Splines	Clock

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001106…, 0001107… & 0001108… SERIES

Vehicle Apps: . CHRYSLER. MINI COOPER 1.6L. TOYOTA CONQUEST 160i, 180i, COROLLA 160i, 180i, FORTUNER 2.7i, HILUX 2.0L VVTi, 2.7L VVTi 4X4 (RAIDER), 2.7i

AOPEC: A010402813, A010402813R, A010402830

Replacing: 1006209675, 1006209607, 9947838, 2801102010, 28730312

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	28.8mm	49mm	10 Spline	Clock

Desc/Notes: R70-M20;R70-M25. 0001107..., 9001107... AND F004A94... SERIES

Vehicle Apps: . TOYOTA COROLLA, RUNX

AOPEC: A0104028993

Replacing: 1006209799, 1006209981, 280110D130

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	28.5mm;	50.2mm	10 Spline	Clock

Desc/Notes: DW;R78M43. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001109... SERIES

Vehicle Apps: . ALFA ROMEO. BMW. FIAT. OPEL

AOPEC: A010402803R

Replacing: 1006209645, 1006209802, 1006209950

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Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	28.8mm	58.5mm	10 Spline	Clock

Desc/Notes: DW;EF. DD (DIRECT DRIVE).

Vehicle Apps: . BMW. FORD. HONDA. ISUZU. LOMBARDINI. MAZDA. MITSUBISHI. NISSAN. TOYOTA

AOPEC: A010402836

Replacing: 9001690111, 1006209592, 1006209554

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	28.6mm	62mm	10 Splines	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001218… SERIES

Vehicle Apps: . BMW. CHRYSLER CHEROKEE, JEEP CHEROKEE. OPEL

AOPEC: A0104028164

Replacing: 6033AD0044, 1006209524, 9003336280, 9002336209, 9002336224

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	28.8mm	64mm	10 Spline	Clock

Desc/Notes: GF;EF. DD (DIRECT DRIVE). 0001208… | 0001211… | 0001311… SERIES

Vehicle Apps: . BMW 1500, 2000. FORD CAPRI, CONSUL, CORTINA V6, COURIER V6 3.0L, GRANADA, HUSKY 1.8L, 2.0L, SAPPHIRE 3.0L. HYUNDAI. MAZDA B3000. MITSUBISHI CANTER, L300, TREDIA. PEUGEOT 404 DIESEL, 504 GL

AOPEC: A0104028103

Replacing: 1006209449, 1006209406, 9001692096

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	29.6mm	51mm	10 Spline	Clock

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . BMW 316i, 318d, 318i, 318is, 320d, 320i, 323i, 325d, 325i, 328i, 330d, 330i, 520d, 520i, 523i, 525d, 525i, 530d, 530i, 728i,iL, M3, X3, Z3

AOPEC: A0104028146,A0104028156

Replacing: 1006209634, 1006209983

Manuf/Sys: **BOSCH**

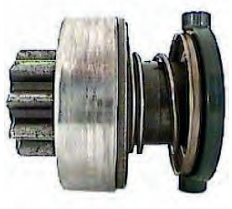
Teeth	Gear OD	Length	Splines	Rotation
9	29mm	51mm	10 Splines	Anti-Clock

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001109… SERIES

Vehicle Apps: . HATZ. LOMBARDINI

AOPEC: A0104028165R

Replacing: 1006209650, 1006209850, 49071200



Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	29mm	53.5mm	10 Spline	Clock

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . FORD 1600, 1800, 2000, 2200. MAZDA 323, 626, B1600, B1800, B2000, B2200, RUSTLER. TOYOTA CONDOR 2.4L, HILUX 2.0L, RAV4

AOPEC: A010002805, A0104028104R, A0104028148

Replacing: 9001690446

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	33.9mm	60.4mm	10 Spline	Clock

Desc/Notes: R78M55. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . TOYOTA FORTUNER 3.0L DIESEL, HIACE 2.5L DIESEL, HILUX 2.5L DIESEL, 3.0L DIESEL, LAND CRUISER 3.0L DIESEL, QUANTUM 2.5L DIESEL, 3.0L DIESEL

AOPEC: A0104028155, A010402822

Replacing: 1006209821

Bendix Drives

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	33.8mm	61.5mm	10 Spline	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001218... SERIES

Vehicle Apps: . CITROEN. FIAT. IVECO. PEUGEOT. RENAULT

AOPEC: A0104028108

Replacing: 9003336283, F000AL1881

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	33.7mm	62mm	10 Splines	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001219... SERIES

Vehicle Apps: . EJC

AOPEC: A0104028153

Replacing: 9002336238

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	33.8mm	64.2mm	16 Splines	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). FITS STARTER: 0001223016

Vehicle Apps: . BOMAG. DEUTZ. HAMM. JCB. KHD. VOLVO

AOPEC: A010402818

Replacing: 6033AD1062, 1340070

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	33.7mm	74.3mm	10 Spline	Clock

Desc/Notes: IF;JF. DD (DIRECT DRIVE).

Vehicle Apps: . ADE. BELL. FIAT TRACTORS. ISUZU. IVECO. KHD. LOMBARDINI. MAGIRUS-DEUTZ. MERCEDES-BENZ. RENAULT. TOYOTA HINO

AOPEC: A010402861

Replacing: 2006209476, 2006209469, 2006209336, 12155224, 1308144

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	33.9mm	83.4mm	10 Splines	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001231... SERIES

Vehicle Apps: . DEUTZ. KHD. MERCEDES-BENZ

AOPEC: A010402868,A011003672

Replacing: 6033AD4034, 1340081, 6033AD4148

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	33.7mm	83.2mm	10 Splines	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001230... SERIES 3KW

Vehicle Apps: . ADE. BELL. KHD. MERCEDES-BENZ ATEGO, CITARO, CITO, CONECTO, ECONIC, UNIMOG, VARIO

AOPEC: A010402802R

Replacing: 6033AD3108, 6033AD3006, 0011514113, 1319806, 086289006

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	34.5mm	61mm	0 Spline	Clock

Desc/Notes: KB. DD (DIRECT DRIVE). STEEL

Vehicle Apps: . ADE. ERF. INTERNATIONAL HARVESTER. KHD. LIEBHERR. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ. NISSAN. RENAULT. TOYOTA HINO

AOPEC: A010402891

Replacing: 2006382176, 2006382150, 1290195, 8122128, 81262090015

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	34.8mm	63.4mm	16 Spline	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001223... SERIES

Vehicle Apps: . FIAT. IVECO DAILY 29, 35, 40, 45, 50, 65

AOPEC: A0104028100R

Replacing: 6033AD1002, 6033AD0077

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	34mm	74mm	10 Spline	Clock

Desc/Notes: IF;JF. DD (DIRECT DRIVE).

Vehicle Apps: . ALFA ROMEO. FIAT. IVECO. SEAT

AOPEC: A0104028131

Replacing: 2006209470, 2006209483, 9001451343, 79026090, 9936730

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Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	34.5mm	75mm	0 Spline	Clock

Desc/Notes: QB. 0001510... SERIES

Vehicle Apps: . MERCEDES BENZ INDUSTRIAL. MWM

AOPEC: A6382060

Replacing: 2006382060

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	34mm	91mm	10 Spline	Clock

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001362... | 0001363... | 0001364... | 0001366... | 0001367... | 0001368... | 0001369... SERIES

Vehicle Apps: . ADE. BELL. DEUTZ. ISUZU. IVECO. JOHN DEERE. KHD. MERCEDES-BENZ. MITSUBISHI. RENAULT. SAME. SAMIL. TOYOTA HINO

AOPEC: A010402835B

Replacing: 2006209492, 2006209000, 2006209536, 1308742, 42487785

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	34mm	91mm	10 Spline -	Clock

Desc/Notes: JD. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. CLAAS. DEUTZ. INTERNATIONAL HARVESTER. JOHN DEERE. KHD. NEW HOLLAND

AOPEC: A0104028109

Replacing: 2006209301, 2006209107, 2006209341

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
9	34mm	91mm	10 Spline -	Clock

Desc/Notes: JD;JF;ID. DD (DIRECT DRIVE).

Vehicle Apps: . ADE. BELL. CLAAS. DEUTZ. INTERNATIONAL HARVESTER. ISUZU. IVECO. JOHN DEERE. KHD. MAGIRUS-DEUTZ. MERCEDES-BENZ. NEW HOLLAND. TOYOTA HINO

AOPEC: A0104028116

Replacing: 2006209422, 2006209406, 2006209436, 9001083436, 086264436

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
10	25.5mm	48.2mm	16 Splines	Clock

Desc/Notes: DW;R70-M15. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001107... SERIES

Vehicle Apps: . FORD BANTAM 1.3L, 1.6L, FIESTA 1.3i, 1.4i, 1.6i, FOCUS 1.4i, 1.6i, IKON, KA 1.3i, RANGER 4.0L V6 MANUAL, ROCAM ENGINES. VOLVO C30 1.6L, S40 1.6L, V50 1.6L

AOPEC: A0104028101R, A0104028161, A010402872

Replacing: 1006209804

Bendix Drives

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
10	26.5mm	58.5mm	10 Splines	Clock

Desc/Notes: EF;DW;DM. DD (DIRECT DRIVE);PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . FORD BANTAM, ESCORT, FIESTA, GRANADA, IKON, MONDEO, SAPPHIRE, SIERRA. MAZDA B1800, B2200, RUSTLER, SOHO

AOPEC: A010420100

Replacing: 1006209516, 1006209510, 1006209566, 1006209318

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
10	26.5mm	79.5mm	10 Spline	Anti-Clock

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . VOLKSWAGEN GOLF III 2.8i VR6, JETTA 1.8L, 2.8i VR6, PASSAT 1.8L, 2.0L, 2.8L VR6, POLO CLASSIC 1.9L, VR6, SHARAN 2.8i VR6

AOPEC: A010402825

Replacing: 1006209558, 1006209565, 1006209910, 1006209553, 1006209583

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
10	26.5mm	80mm	16 Spline	Anti-Clock

Desc/Notes: DB. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . AUDI A2, A3, TT. VOLKSWAGEN BEETLE (NEW), CADDY 1.8L, 1.9D, GOLF III 1.8L, 1.9 TDI, 2.0L, IV 1.8L, 1.9L TDI, 2.0L, JETTA 1.9L TDI, MULTIVAN 1.9L DIESEL, TURBO DIESEL, POLO, SHARAN, TRANSPORTER

AOPEC: A0104028136

Replacing: 1006209680, 1006209880, F000AL11000, 1006209621, 1006209648

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Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
10	27.9mm	59mm	10 Spline	Clock

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . FIAT. MERCEDES-BENZ. OPEL. PEUGEOT. RENAULT. VOLVO

AOPEC: A0104028128

Replacing: 1006209539, 1006209538, 9940740

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
10	32mm	91mm	10 Spline	Clock

Desc/Notes: IF;JF. DD (DIRECT DRIVE).

Vehicle Apps: . JOHN DEERE. MERCEDES-BENZ. VOLVO

AOPEC: A0104028132,A010402867

Replacing: 2006209457, 2006209459, 2006209427, 2006209551, A187777

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
10	38.5mm	61.5mm	0 Spline	Clock

Desc/Notes: KB. DD (DIRECT DRIVE).

Vehicle Apps: . FIAT. IVECO

AOPEC: A010002820

Replacing: 2006382188, 79052234, 93191516

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
10	38.5mm	91mm	10 Spline	Clock

Desc/Notes: IF;JF. DD (DIRECT DRIVE).

Vehicle Apps: . ADE. CATERPILLAR. DAF. DEUTZ. FORD TRACTORS AND TRUCKS. INTERNATIONAL HARVESTER. IVECO. JOHN DEERE. KHD. LINDE. MASSEY FERGUSON. MITSUBISHI CANTER. NISSAN. PERKINS

AOPEC: A0104028126, A010402875R, A1006209566

Replacing: 2006209499, 2006209495, 2006209462, 82DB11350AA, 3079360R91

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	34.4mm	49mm	10 Splines	Clock

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 9001107... AND 0001107… SERIES

Vehicle Apps: . FORD RANGER 2.5L TURBO DIESEL. MAZDA DRIFTER 2.5L TURBO DIESEL. TOYOTA AVENSIS 1.6i/1.8i 16V, COROLLA 1.4i/1.6i 16V, RUNX

AOPEC: A010002807R

Replacing: 1006209695, 280110D030

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	34.6mm	64mm	10 Spline	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001218… SERIES

Vehicle Apps: . DEUTZ. KHD. MANITOU. VOLKSWAGEN

AOPEC: A0104028158

Replacing: 9002336230

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	35mm	64mm	16 Spline	Clock

Desc/Notes: EV. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001223… SERIES - FITS: STR1181

Vehicle Apps: . DEUTZ. KHD. VOLVO

AOPEC: A010403613

Replacing: 6033AD0061, 1319754

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	39.5mm	82mm	10 Splines	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001231... SERIES

Vehicle Apps: . MAN L2000, M2000. VOLVO FL6

AOPEC: A0104028106R

Replacing: 6033AD0467, 6033AD4232, 6033AD0304, 6033AD0242

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	40.3mm	61mm	0 Spline	Clock

Desc/Notes: KB. DD (DIRECT DRIVE). BRASS

Vehicle Apps: . ADE. BELL. FORD CARGO. INTERNATIONAL HARVESTER. IVECO. KHD. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ. MITSUBISHI FM215. SAMIL. TOYOTA HINO. VOLVO

AOPEC: A010402895

Replacing: 2006383152

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	40.5mm	61mm	0 Spline	Clock

Desc/Notes: KB. DD (DIRECT DRIVE). FOR KB CONVERSIONS - STEEL

Vehicle Apps: . ADE. BELL. DEUTZ. FORD CARGO. INTERNATIONAL HARVESTER. KHD. MAGIRUS-DEUTZ. MERCEDES-BENZ. MITSUBISHI FM215. SAMIL. SCANIA. TOYOTA HINO. VOLVO

AOPEC: A010402807,A0104028138

Replacing: 2006382018, 2006382156, 086437156

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	40mm	74mm	10 Spline	Clock

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001362… | 0001363… AND 0001366… SERIES

Vehicle Apps: . BOMAG. HATZ

AOPEC: A010402820, A010402820R

Replacing: 2006209475, 11540050300018, 49049900, 1530394C1, 1320117

Bendix Drives

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	40mm	84mm	10 Spline	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . MAN

AOPEC: A0104028111

Replacing: 6033AD4052

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	40mm	91.2mm	10 Spline	Clock

Desc/Notes: IF;JF. DD (DIRECT DRIVE).

Vehicle Apps: . BMW. CASE. HATZ. INTERNATIONAL HARVESTER. MAN. MASSEY FERGUSON. SAME. VOLKSWAGEN

AOPEC: A010402873R

Replacing: 2006209425, 2006209491, 2006209494, 2006209535, 3079550R91

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	40mm	91mm	10 Splines	Clock

Desc/Notes: JD;ID;JF. DD (DIRECT DRIVE).

Vehicle Apps: . BELL. BOMAG. DEUTZ. KHD. SAME. STEYR

AOPEC: A010402870

Replacing: 2006209438, 2006209342, 3078979R91, 1320455

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	41mm	75mm	0 Spline	Clock

Desc/Notes: QB. DD (DIRECT DRIVE).

Vehicle Apps: . DEUTZ. FIAT IVECO. KHD. MAGIRUS-DEUTZ. SAMIL. VOLVO

AOPEC: A010402810

Replacing: 2006382062, 1301161

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	41mm	118mm	19 Splines	Clock

Desc/Notes: IE;JE. DD (DIRECT DRIVE). 0001370... | 0001371... AND 0001372... SERIES

Vehicle Apps: . BELL. DAF. MERCEDES-BENZ ACTROS, AXOR, TRAVEGO. SCANIA

AOPEC: A011002801

Replacing: 2006202010, 2006202011, 1337448, 0001501031

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
11	45.5mm	60mm	0 Spline	Clock

Desc/Notes: KB. DD (DIRECT DRIVE). KB CONVERSION

Vehicle Apps: . HINO. ISUZU. NISSAN. TOYOTA

AOPEC: A0104028120, A010402897

Replacing:

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
12	44.4mm	61mm	0 Spline	Clock

Desc/Notes: KB. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. FIAT. RENAULT

AOPEC: A010402893

Replacing: 2006382162, 9920368, 50000809447, 5100140386

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Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
12	45.3mm	83.3mm	10 Spline	Clock

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001231... SERIES - SUPPLIED WITHOUT FORK

Vehicle Apps: . VOLVO B7/FM7 SERIES

AOPEC: A0104028996

Replacing: 6033AD0129, 6033AD4243, 33099583

Manuf/Sys: **BOSCH**

Teeth	Gear OD	Length	Splines	Rotation
13	46mm	74mm	10	Anti-Clock

Desc/Notes: IF. DD (DIRECT DRIVE).

Vehicle Apps: . BOMAG. HATZ

AOPEC: A010002801

Replacing: 2006209329, 05726971, 49048300

Manuf/Sys: **BOSCH**

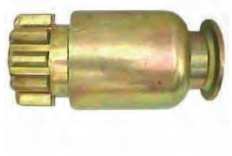
Teeth	Gear OD	Length	Splines	Rotation
19 Splines	N/A	127.5mm	7 Spline	Clock

Desc/Notes: HEF95L. PLGR (PLANETARY GEAR REDUCTION). 0001241... SERIES

Vehicle Apps: . DAF. MAN. MERCEDES-BENZ. SCANIA

AOPEC: A0104028124R

Replacing: 6033AD5078



Manuf/Sys: **BUTEC**

Teeth	Gear OD	Length	Splines	Rotation
11	56mm	118mm	19 Spline	Clock

Desc/Notes: BOSCH KE/JE 420 SERIES;DELCO 40MT SERIES (NEEDS BUSH); LEECE NEVILLE;PRESTOLITE MES, MFJ, MFY M51, M57. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. INTERNATIONAL EAGLE. MACK

AOPEC: A010502801R

Replacing: 850629, 850173, 850760, 852959, 858394

Manuf/Sys: **BUTEC**

Teeth	Gear OD	Length	Splines	Rotation
12	45mm	118mm	19 Spline	Clock

Desc/Notes: BOSCH KE/JE 420 SERIES;DELCO 40MT SERIES (NEEDS BUSH); LEECE NEVILLE;PRESTOLITE MES, MFJ, MFY M51, M57. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. INTERNATIONAL. MACK

AOPEC: A012902812R

Replacing: 850363, 852758, 850758, 852957

Manuf/Sys: **CAV**

Teeth	Gear OD	Length	Splines	Rotation
10	38mm	120mm	3 Spline	Clock

Desc/Notes: BS5;SL5;BNG. DD (DIRECT DRIVE).

Vehicle Apps: . BEDFORD. ERF

AOPEC: A010402885

Replacing: 2006380500, 5549306CH 18100104, 9001084045

Manuf/Sys: **CAV**

Teeth	Gear OD	Length	Splines	Rotation
13	45mm	117mm	3 Spline	Clock

Desc/Notes: BS5;SL5;BNG. DD (DIRECT DRIVE).

Vehicle Apps: . VARIOUS INDUSTRIAL APPLICATIONS

AOPEC: A010702801

Replacing: 5549306AH, 5549306AJ, 5549306T

Bendix Drives

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
9	29mm	95mm	3 Spline;6	Clock

Desc/Notes: 10MT;20MT;25MT;30MT;SD300. DD (DIRECT DRIVE). CAN ALSO REPLACE OR BE: 6-SPLINE

Vehicle Apps: . CHEVROLET 4-CYLINDER 2.5L, 6-CYLINDER 3.2L, 3.8 L, 4.1L, 4.8L, V6 3.2L, 3.7L, 3.8L, V8 4.3L, 4.6L, 4.9L, 5.0L, 5.3L, 5.4L, 5.6 L, 5.7L. GENERAL MOTORS. HYSTER. JEEP 2.5L 4-CYLINDER. MASSEY FERGUSON

AOPEC: A014002802

Replacing: 800026, 1892899

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
9	29mm	95mm	3 Spline;6	Clock

Desc/Notes: 10MT;10MT;20MT;25MT;30MT;SD300;20MT;25MT;30MT;SD300. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. JOHN DEERE

AOPEC: A011102806

Replacing: 1952410, 1932188, 1939506

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
9	34mm	85.5mm	12 Spline	Clock

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . DEUTZ

AOPEC: A011102802R

Replacing: 10457059

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
10	31mm	85mm	12 Spline	Clock

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION). WET+DRY CLUTCH

Vehicle Apps: . BOBCAT. CATERPILLAR. CHAMPION. CLARK. CUMMINS. FORD. HYSTER. INGERSOLL RAND. JOHN DEERE. KENWORTH. MERCEDES-BENZ. PERKINS

AOPEC: A011002804R, A011102832B

Replacing: 10456455, 10457056, 10457167

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
10	32mm	97mm	3 Spline	Clock

Desc/Notes: 10MT;20MT;22MT;25MT;27MT;30MT;35MT;SD300. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. HYSTER

AOPEC: A011002805R

Replacing: 1943818, 1968131, 10497522, 1877345, 1947912

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
10	38mm	96mm	3 Spline	Clock

Desc/Notes: 10MT;20MT;22MT;25MT;27MT;30MT;35MT;SD300. DD (DIRECT DRIVE).

Vehicle Apps: . BOBCAT. CASE. CATERPILLAR. CLARK. HYSTER. INTERNATIONAL HARVESTER. JOHN DEERE. PERKINS. YALE

AOPEC: A011102811

Replacing: 1941157, 1971707, 21939608

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
10	38mm	100mm	3 Spline	Clock

Desc/Notes: 37MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. FORD TRUCKS. GENERAL MOTORS TRUCKS. INTERNATIONAL HARVESTER. JOHN DEERE

AOPEC: A011102837R, A021102837B

Replacing: 1986244, E6HZ11350A

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
10	40mm	85.5mm	12 Spline	Clock

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION). WITH RUBBER FOR WET+DRY CLUTCH

Vehicle Apps: . BOBCAT. CASE. CLARK. DEUTZ. FORD. HYSTER. INTERNATIONAL HARVESTER. MASSEY FERGUSON. NEW HOLLAND. PERKINS

AOPEC: A011002807

Replacing: 10457057, D2054

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
11	55mm	102mm	19 Spline	Clock

Desc/Notes: 41MT. DD (DIRECT DRIVE).

Vehicle Apps: . VARIOUS EARTHMOVING AND INDUSTRIAL APPLICATIONS

AOPEC: A10476528R

Replacing: 10476528, 270999

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
11	56.5mm	120mm	19 Spline	Clock

Desc/Notes: 35MT;35MT;40MT;42MT;50MT;40MT;42MT;50MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. ERF. EUCLID. FODEN. INTERNATIONAL EAGLE. KENWORTH. KOMATSU. MACK. OSHKOSH

AOPEC: A011102823B

Replacing: 1967779, 800066, 1976884

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
11	56mm	170mm	19 Spline	Clock

Desc/Notes: 50MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR

AOPEC: A1979836R

Replacing: 1894220, 1977012, 1979836, 1946174, 800075

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
12	45mm	85.5mm	12 Spline	Clock

Desc/Notes: 28MT. OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . ALLIS-CHALMERS. CLARK. FORD NEW HOLLAND. HYSTER. PERKINS

AOPEC: A011102804

Replacing: 10457058, 10457168

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
12	45mm	96mm	3 Spline	Clock

Desc/Notes: 10MT;20MT;22MT;25MT;27MT;30MT;35MT;SD300. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. CATERPILLAR. CLARK. HYSTER. INTERNATIONAL. JOHN DEERE. PERKINS

AOPEC: A011102815R

Replacing: 1875852, 1934488, 1940134, 1940138

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
12	45.5mm	170mm	19 Spline	Clock

Desc/Notes: 50MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. EUCLID. KENWORTH. KOMATSU. OSHKOSH

AOPEC: A1979835R

Replacing: 1894221, 1949450, 800077, 1979835, 1967952

Bendix Drives

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
12	46mm	98mm	3 Spline	Clock

Desc/Notes: 37MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. FORD. INGERSOLL RAND. INTERNATIONAL HARVESTER. JOHN DEERE. KENWORTH. MACK

AOPEC: A021102836B, A021102838B

Replacing: 1985262, 1985626

Manuf/Sys: **DELCO**

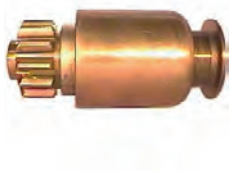
Teeth	Gear OD	Length	Splines	Rotation
12	46mm	102mm	19 Spline	Clock

Desc/Notes: 41MT. DD (DIRECT DRIVE).

Vehicle Apps: . BOBCAT. CATERPILLAR. CUMMINS. INTERNATIONAL. MACK. PERKINS

AOPEC: A10472565R

Replacing: 10472565



Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
12	46mm	120mm	19 Spline	Clock

Desc/Notes: 35MT;35MT;40MT;42MT;50MT;40MT;42MT;50MT. DD (DIRECT DRIVE). D-SERIES CATERPILLARS

Vehicle Apps: . CASE. CATERPILLAR. CUMMINS. ERF. GENERAL MOTORS. HYSTER. INTERNATIONAL EAGLE, HARVESTER. JOHN DEERE. MACK. VOLVO

AOPEC: A011002811, A011102824, A011102824J

Replacing: 1970711, 1114087, 1893560, 1894213, 1946957

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
13	49.5mm	120mm	19 Spline	Clock

Desc/Notes: 40MT;42MT;50MT. DD (DIRECT DRIVE).

Vehicle Apps: . CHAMPION. CHEVROLET. CLARK FORKLIFT. CUMMINS V SERIES. FORD TRACTOR. FREIGHTLINER. INTERNATIONAL HARVESTER. JOHN DEERE

AOPEC: A011002814, A011102825B

Replacing: 1977006, 1893562, 1894214, 1947520, 800069

Manuf/Sys: **DELCO**

Teeth	Gear OD	Length	Splines	Rotation
			23 Spline	

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . FREIGHTLINER. MERCEDES-BENZ. VOLVO

AOPEC: A011103901R

Replacing: 10511410

Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
8	26mm	74.7mm	8 Spline	Anti-Clock

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: . NISSAN 310, PULSAR

AOPEC: A011902813

Replacing: 211465004, 211495002, TMJ102, 23312M1500, 23312M1501

Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
9	32.2mm	94.7mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . HYSTER. ISUZU KB250 DT, KB280DT DIESEL TURBO. KOMATSU

AOPEC: A0104028149, A011902808

Replacing: 213025005, 214015003, 21401500, 8970475480, 8944355630

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Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
9	34.7mm	94.8mm		Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . NISSAN 1-TONNER 2.5L DIESEL, 2.7L DIESEL BAKKIE, CABSTAR 2.7L, TERRANO 2.7L DIESEL, TURBO DIESEL

AOPEC: A0104028143

Replacing: 2331243G00, 213015005, 213015505, 213095007, 23312-43G00

Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
9	35.5mm	69mm	12 Spline	Clock

Desc/Notes: DD (DIRECT DRIVE);OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . NISSAN 2.2L DIESEL, 2.3L DIESEL, CABALL DIESEL

AOPEC: A23312T5601, AYM129953-77660

Replacing: 9821212340, 2331276201, 212025001, 2331237502

Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
9	35.5mm	87mm	10 Splines	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . NISSAN DIESEL, FORKLIFT

AOPEC: A014002801

Replacing: 211415507, 2331203J00

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Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
9	35mm	100.3mm	11 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . NISSAN 1-TONNER, CABSTAR 2.7L, HARDBODY, TERRANO

AOPEC: A011902812

Replacing: 22404500, 22407500, 2331202N00

Photo Not Available

Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
9	35.3mm	100.3mm		Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . ISUZU 350, ELF, NKR, NPR, TLD. KOMATSU

AOPEC: A011902804

Replacing: 22402500, 22408500, 22409500

Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
11	39.8mm	103.5mm	11 Splines	Anti-Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). FITS STARTER STR3041

Vehicle Apps: . DMA. ISUZU NPR300, NPR400

AOPEC: A0104028151R

Replacing: 8972305640

Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
11	40mm	69.5mm	12 Spline	Clock

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: . NISSAN CABALL DIESEL ED30

AOPEC: A011902820

Replacing: 23312J2003, 21305500, 21307500, 23312C6800, 225045003

Bendix Drives

Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
11	40mm	77mm	12 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). FITS STARTER: STR3052

Vehicle Apps: . NISSAN UD70, UD80

AOPEC: A011902807

Replacing: 225085005, 23314Z9002, 23312T9003, 225045004, 22708500

Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
11	40mm	106mm	4 Spline	Clock

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: . NISSAN CK40, UG780 ND6 ENGINE. YANMAR

AOPEC: A011902816R

Replacing: 2331390005, 22505500, 22506500, 23313-90005

Manuf/Sys: **HITACHI**

Teeth	Gear OD	Length	Splines	Rotation
11	40mm	115.5mm	11 Spline	Anti-Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . ISUZU ELF

AOPEC: A011902819

Replacing: 22406501, 22402501, 8970256710

Manuf/Sys: **ISKRA**

Teeth	Gear OD	Length	Splines	Rotation
9	29.4mm	52.3mm	14 Spline	Clock

Desc/Notes: AZE. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . JCB

AOPEC: A017902801

Replacing: 16907267

Manuf/Sys: **ISKRA**

Teeth	Gear OD	Length	Splines	Rotation
9	29mm	86mm	14 Spline	Clock

Desc/Notes: AZE. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . DEUTZ. RUGGERINI

AOPEC: A017902803

Replacing: 16908352

Manuf/Sys: **ISKRA**

Teeth	Gear OD	Length	Splines	Rotation
9	34.5mm	82.5mm	10 Spline	Clock

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. DEUTZ. FIAT. INTERNATIONAL HARVESTER. IVECO. KHD. MERCEDES-BENZ. VOLVO

AOPEC: A017902810

Replacing: 16901658

Manuf/Sys: **ISKRA**

Teeth	Gear OD	Length	Splines	Rotation
10	30mm	82.6mm	10 Spline	Clock

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: . CUMMINS. FORD. JOHN DEERE. MERCEDES-BENZ

AOPEC: A017902805

Replacing: 16903166

Manuf/Sys: **ISKRA**

Teeth	Gear OD	Length	Splines	Rotation
11	40.4mm	81.5mm	10 Spline	Clock

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. MAN

AOPEC: A017902806R, A017902812

Replacing: 16901752

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
8	25.5mm	48.6mm	3 Spline;9	Clock

Desc/Notes: S90. DD (DIRECT DRIVE).

Vehicle Apps: . DAEWOO. FORD. HYUNDAI. MAZDA. MITSUBISHI. OPEL. TOYOTA

AOPEC: A0104028140

Replacing: 66241709

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
8	26mm	66mm	9 Spline	Anti-Clock

Desc/Notes: S90. DD (DIRECT DRIVE).

Vehicle Apps: . NISSAN LANGLEY 1.3L GL AND 1.5L GL EXA, SENTRA 1.3L/130 GL, 1.4L/140 GX, 1.6L/160 GL, GSi GXE

AOPEC: A013102800

Replacing: 66242137, 66241323

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
8	26mm	77mm	12 Spline	Anti-Clock

Desc/Notes: 9M90. DD (DIRECT DRIVE).

Vehicle Apps: . NISSAN LANGLEY, SENTRA

AOPEC: A012302884

Replacing: 54269360

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
9	24.6mm	56.3mm	9 Spline	Anti-Clock

Desc/Notes: S90. DD (DIRECT DRIVE).

Vehicle Apps: . VOLKSWAGEN GOLF 1.3L, 1.6L, 1.8L, JETTA 1.3L, 1.6L, 1.8L

AOPEC: A012302740

Replacing: 66241919

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
9	28.5mm	58mm	4 Spline	Anti-Clock

Desc/Notes: M35. DD (DIRECT DRIVE).

Vehicle Apps: . AUSTIN. FORD ESCORT AND CORTINA

AOPEC: A012302882

Replacing: 66240367, 54252212, TLB112

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
9	29mm	48.3mm	9 Spline;3	Clock

Desc/Notes: S90. DD (DIRECT DRIVE). SMALL HUB/HOUSING

Vehicle Apps: . FORD CORTINA 3.0L, COURIER 3.0L. LAND ROVER 2.5 L PETROL. MAZDA B3000. NISSAN 120, 120Y, 1200, 1400, B140. TOYOTA CONQUEST 1.6L, COROLLA 1.6L 16V, CRESSIDA 2.0L, 2.8L

AOPEC: A012302839

Replacing: 66241622, 66242134

Bendix Drives

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
9	29mm	68mm	12 Spline	Clock

Desc/Notes: M35. DD (DIRECT DRIVE).

Vehicle Apps: . DATSUN/NISSAN 1300/1500/620 1.5L. FORD CORTINA, SAPPHIRE. ISUZU KB160 PETROL, KB200 PETROL, WFR, RELAY, KB20, KB21, PETROL. NISSAN 120, 120Y, 1200, 1400, B140, 1600, 1800, STANZA. ROVER 2.6L. TOYOTA COROLLA RWD

AOPEC: A012302801

Replacing: 54247077, 54247076, TNB137, 54247181, 54244686

Manuf/Sys: **LUCAS**

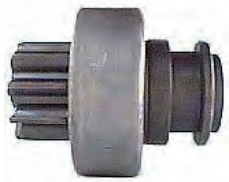
Teeth	Gear OD	Length	Splines	Rotation
9	34.2mm	71.6mm	10 Spline	Clock

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: . MAHINDRA. TATA

AOPEC: A012302804R

Replacing: 26253397



Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
9	34mm	73.5mm	12 Spline	Clock

Desc/Notes: M45;M50. DD (DIRECT DRIVE).

Vehicle Apps: . ADE. KHD. MAGIRUS-DEUTZ

AOPEC: A012302881

Replacing: 54269213, 54263748, 54268928, TMB166

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
10	26mm	48mm	9 Spline	Clock

Desc/Notes: S90. DD (DIRECT DRIVE).

Vehicle Apps: . FORD 2.0L AUTOMATIC, BANTAM 1.6L, CAPRI 1.3L, 1.6 L, 2.0L, CORTINA 1300, 2.0L, ESCORT 1.1L, 1.3L, FIESTA 1.4L, SAPPHIRE 2.0L, SIERRA 2.0L MANUAL, XR3

AOPEC: A012302741R

Replacing: 66241322

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
10	30.8mm	100.2mm	12 Spline	Clock

Desc/Notes: M45;M50;M127. DD (DIRECT DRIVE).

Vehicle Apps: . DAF

AOPEC: A012302803

Replacing: 54290474, 54294338, TNB173

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
10	37.6mm	90.4mm	12 Spline	Clock

Desc/Notes: 7M14. DD (DIRECT DRIVE).

Vehicle Apps: . CUMMINS ENGINES. TATA

AOPEC: A012302843, A019902801B

Replacing: 26241399

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
10	38mm	70mm	12 Spline	Clock

Desc/Notes: M45;M50. DD (DIRECT DRIVE).

Vehicle Apps: . ADE. CASE. FORD CARGO, TRACTOR. HYSTER. JCB. LEYLAND. NEW HOLLAND. PERKINS

AOPEC: A0104028115, A012302873B, A012302873R

Replacing: 54247187, 54243783, 54246738, 54246896, TMB115

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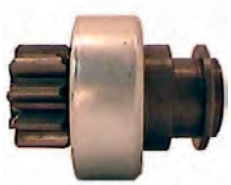

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
10	38mm	73.5mm	12 Spline	Clock

Desc/Notes: M45;M50. DD (DIRECT DRIVE).

Vehicle Apps: . ADE. BELL. CASE. FORD TRACTORS, TRUCKS. HYSTER. INTERNATIONAL HARVESTER. KHD. LAND ROVER. LANDINI. LEYLAND. MASSEY FERGUSON. PERKINS

AOPEC: A012302863B

Replacing: 60600024, 54247034, TMB120, TNB108

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
10	38mm	73.5mm	12 Spline	Clock

Desc/Notes: 3SM114. DD (DIRECT DRIVE).

Vehicle Apps: . FORD TRACTOR. MASSEY FURGESON

AOPEC: A012302841

Replacing: 26255474

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
10	38mm	101mm	12 Spline	Clock

Desc/Notes: M50;M127;3M127. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. INTERNATIONAL HARVESTER. PERKINS

AOPEC: A012302864R

Replacing: 54243781, 54246662, 60600050, TMB102

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
10	38mm	101mm	12 Spline	Clock

Desc/Notes: M45;M50. DD (DIRECT DRIVE).

Vehicle Apps: . BEDFORD. LEYLAND

AOPEC: A012302874R

Replacing: 54247389, 60600038, 54268142, TMB121, TNB169

Manuf/Sys: **LUCAS**

Teeth	Gear OD	Length	Splines	Rotation
11	39.5mm	107mm	6 Spline	Clock

Desc/Notes: M45;M50. DD (DIRECT DRIVE).

Vehicle Apps: . ALLIS CHALMERS. LEYLAND

AOPEC: A0104028113

Replacing: 60600341, 291875, 54255889, TLB117, 292130

Manuf/Sys: **MAGNETI-MARELLI**

Teeth	Gear OD	Length	Splines	Rotation
9	33.9mm	77mm	6 Spline	Clock

Desc/Notes: MT67;MT68;MT71;MT74. DD (DIRECT DRIVE).

Vehicle Apps: . FIAT

AOPEC: A012402802

Replacing: 72138801

Manuf/Sys: **MAGNETI-MARELLI**

Teeth	Gear OD	Length	Splines	Rotation
9	34mm	77.5mm	6 Spline;	Clock

Desc/Notes: MT67. DD (DIRECT DRIVE). CAN BE 6-SPLINE OR 12-SPLINE

Vehicle Apps: . ALFA ROMEO. FIAT TRACTORS. IVECO. LANCIA. NEW HOLLAND. RENAULT

AOPEC: A0104028119

Replacing: 9929081, 79023774, 9000862, 72139007, 72363401

Bendix Drives

Manuf/Sys: **MAGNETI-MARELLI**

Teeth	Gear OD	Length	Splines	Rotation
10	38.7mm	72.7mm	10 Spline	Clock

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . JCB. MASSEY FERGUSON. PERKINS

AOPEC
A012402800

Replacing:

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
0		139mm/15	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . MITSUBISHI FM215. NISSAN FORKLIFT

AOPEC
A0125028018

Replacing: M357X73571, ME700042, ME700041, M231X00684

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
8	25.5mm	56mm	8 Spline;4	Clock

Desc/Notes: DD (DIRECT DRIVE);PMDD (PERMANENT MAGNET - DIRECT DRIVE).

Vehicle Apps: . FORD. HYUNDAI. KIA. KUBOTA. MAZDA. MITSUBISHI. NISSAN. SUZUKI

AOPEC
A0125028014, A0125028021B

Replacing: M191T22071, M191T23071, E7GZ11350A, 2335442L11, 3132079030

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
8	26mm	61mm	8 Spline;4	Clock

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: . FORD BANTAM, COURIER, LASER, METEOR. HYUNDAI. KIA. MAZDA 323, 626, DRIFTER, ETUDE, RUSTLER. MITSUBISHI CANTER, L300. NISSAN 1200, 1400, E20

AOPEC
A012028005

Replacing: 808824722, MD607283, 23312Y5011

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
9	28.8mm	55.6mm	8 Spline	Clock

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: . KUBOTA. MAZDA. YANMAR

AOPEC
A0125028025

Replacing: M191T22271, M191T22871, M191T23171

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
10	31.5mm	51mm	8 Spline	Clock

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . FORD 2.0L, 2.2L. KIA SEPHIA, SHUMA, SPORTAGE. MAZDA 323 1.8L, 626 1.8L/2.0L, MX6 2.0L, 929 2.0L, MX6 2.2I TURBO. MITSUBISHI FORKLIFT. NISSAN SENTRA

AOPEC
A0104028142

Replacing: M191T12171, 2335420R10, E92Z11350B, M191T13271, SDE336

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
10	31.2mm	51mm	8 Splines	Clock

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . FORD RANGER 2.5L DIESEL. MAZDA

AOPEC
A012502833B

Replacing: M191X68071, M191T15071, MD618963, WL0218X25

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Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
10	31mm	127.8	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . MITSUBISHI COLT 2.5L DIESEL

AOPEC
A012503902R

Replacing: M191T68471

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
11	39.3mm	138/158m	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . MITSUBISHI. YALE

AOPEC
A0125028019

Replacing: 57471

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
11	47mm	112.6mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . MITSUBISHI FUSO

AOPEC
A0125028010

Replacing: M191T61771

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
11	47.5mm	116mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . FURUKAWA. MITSUBISHI KATO

AOPEC
A0125028015, A0125028017R

Replacing: M191T63371, M191T65671, ME700401, ME700681

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
11		140mm/15	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . MITSUBISHI FUSO FK

AOPEC
A012502809R

Replacing: ME700040, M357X84571

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
12	31.2mm	51mm	8 Spline	Clock

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION). FITS: M1T90281

Vehicle Apps: . CITROEN. HYUNDAI. PEUGEOT

AOPEC
A012520100

Replacing: M191T13671, M191T14671

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
12	44mm	112mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . FAW. MITSUBISHI FM104, FM215, FUSO

AOPEC
A0125028020

Replacing: M191T63271

Bendix Drives

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
13	54.5mm	116.2mm	10 Splines	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . FURUKAWA

AOPEC
A0125028016R

Replacing:

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
13	55.7mm	111mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOBELCO. MITSUBISHI GRADER

AOPEC
A0125028023

Replacing: M191T72672, ME701209

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
13	55.6mm	117.6mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . MITSUBISHI FUSO

AOPEC
A0125028012

Replacing: M191T72971, M191T73471

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
20	14.5mm	111mm	5 Splines	Clock

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION). FITS STARTERS: M8T50071 | M8T50171 | M8T80071 | M8T87171 & M8T80671

Vehicle Apps: . MITSUBISHI CANTER, FUSO

AOPEC
T011902802

Replacing: M191X67585, M191X67571

Manuf/Sys: **MITSUBISHI**

Teeth	Gear OD	Length	Splines	Rotation
20	N/A	126/144m	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). CAN BE USED FOR DRV5005 AND DRV5090

Vehicle Apps: . AMC. CASE. FORD. MAZDA. MITSUBISHI. NISSAN. YALE

AOPEC
T2600156459

Replacing:

Manuf/Sys: **MITSUBISHI**

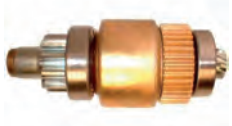
Teeth	Gear OD	Length	Splines	Rotation
26	18.7mm	140mm	6 Splines	Clock

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION). FITS STARTER NUMBER: M9T82171

Vehicle Apps: . ISUZU. NISSAN UD440

AOPEC
A012503904R

Replacing: M191X90171, 10511410



Manuf/Sys: **NIKKO**

Teeth	Gear OD	Length	Splines	Rotation
10	38.4mm	149.5mm	10 Splines	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). FITS STARTER: 0240003060 | 6008634410

Vehicle Apps: . ISUZU. JOHN DEERE. KOMATSU

AOPEC
A012902804

Replacing: 0245110040

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Manuf/Sys: **NIKKO**

Teeth	Gear OD	Length	Splines	Rotation
11	39.8mm	91.2mm	12 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU PC200, PC200-5

AOPEC
A0-23500-0392

Replacing: 0235000392

Manuf/Sys: **NIKKO**

Teeth	Gear OD	Length	Splines	Rotation
11	40mm	91.7mm	12 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU PC200, PC200-5

AOPEC
A012902820R

Replacing: 0235000390

Manuf/Sys: **NIKKO**

Teeth	Gear OD	Length	Splines	Rotation
11	40mm	102mm	15 Spline	Clock

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: . ISUZU SMXB

AOPEC
A011902806

Replacing: 1811220040, 82121220, 181122004, 1215000650, 1215001590

Manuf/Sys: **NIKKO**

Teeth	Gear OD	Length	Splines	Rotation
11	47.8mm	97mm	15 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . HITACHI CRANES. ISUZU VPZ

AOPEC
A012902806R

Replacing: 1811220390, 1235000990, 1811220400

Manuf/Sys: **NIKKO**

Teeth	Gear OD	Length	Splines	Rotation
11	56.5mm	97mm	15 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU

AOPEC
A012902802R

Replacing: 1235000160

Manuf/Sys: **NIKKO**

Teeth	Gear OD	Length	Splines	Rotation
12	45mm	97mm	15 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU

AOPEC
A012902803R

Replacing: 1235000170

Manuf/Sys: **NIKKO**

Teeth	Gear OD	Length	Splines	Rotation
13	45.5mm	89.4mm	12 Splines	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU

AOPEC
A012902801

Replacing: 0235000250, 0235000251, 1235000250

Bendix Drives

Manuf/Sys: **NIKKO**

Teeth	Gear OD	Length	Splines	Rotation
13	46mm	98mm	15 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU

AOPEC
A012902805R, A1-23500-0190

Replacing:

Manuf/Sys: **NIPPON DENSO**

Teeth	Gear OD	Length	Splines	Rotation
8	26.2mm	60mm	5 Spline;	Clock

Desc/Notes: DD (DIRECT DRIVE). NUMBER OF SPLINES MAY VARY DEPENDING ON MANUFACTURER

Vehicle Apps: . ISUZU. MAZDA. SUZUKI

AOPEC
A0128028013

Replacing: 0283004390, 0283005850

Manuf/Sys: **NIPPON DENSO**

Teeth	Gear OD	Length	Splines	Rotation
9	29mm	54mm	5 Spline	Clock

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: . DAIHATSU. TOYOTA

AOPEC
A0128028012

Replacing: 2801113060, 0283005400

Manuf/Sys: **NIPPON DENSO**

Teeth	Gear OD	Length	Splines	Rotation
9	29mm	64mm	10 Spline	Clock

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: . TOYOTA COROLLA 1.3L, 1.6L, 1.8L REAR WHEEL DRIVE (1300, 1600, 1800), CRESSIDA 1.8L DX/L/LS, HILUX 1600/1.6L PETROL

AOPEC
A0128028004

Replacing: 0283000851, 2801122020, 2811013033, 0283001020, 3132063210

Manuf/Sys: **NIPPON DENSO**

Teeth	Gear OD	Length	Splines	Rotation
9	29mm	102mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . CASE. CHEVROLET. HONDA. HYSTER. ISUZU. KUBOTA. TCM. TOYOTA. YALE

AOPEC
A0104028144, A0128028011

Replacing: 0283001791, 2801126042, 2801126040, 0283001602, 0283001603

Manuf/Sys: **NIPPON DENSO**

Teeth	Gear OD	Length	Splines	Rotation
9	32mm	102.5mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . HYSTER. ISUZU KB250 TD, KB280D, KB280DT, TLD 532. KOMATSU. TCM. THERMO KING. YALE

AOPEC
A0101001

Replacing: 5811240060, 0283001841, 581124006, 5-81124-006-0

Manuf/Sys: **NIPPON DENSO**

Teeth	Gear OD	Length	Splines	Rotation
10	30.7mm	43.5mm	10 Spline	Clock

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . TOYOTA 4RUNNER 4.0L V6, FORTUNER 4.0L V6, HILUX 4.0L V6

AOPEC
A012802803

Replacing: 0283009541

Manuf/Sys: **NIPPON DENSO**

Teeth	Gear OD	Length	Splines	Rotation
10	36.5mm	83mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . TOYOTA HILUX 2.8L DIESEL

AOPEC
A0104028110B

Replacing: 2801154380, 28011-54380

Manuf/Sys: **NIPPON DENSO**

Teeth	Gear OD	Length	Splines	Rotation
10	37.6mm	147mm	10 Splines	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . ALLIS CHALMERS. CATERPILLAR. JOHN DEERE

AOPEC
A012802856

Replacing: 0283003690, 0283006550, 0283006610, RE47369, 7T6093

Manuf/Sys: **NIPPON DENSO**

Teeth	Gear OD	Length	Splines	Rotation
11	39.8mm	101mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . TOYOTA HILUX 2.2L DIESEL, 2.4L DIESEL, 2.8L DIESEL, VENTURE 2.4L DIESEL

AOPEC
A012802808

Replacing: 2801154070, 0280992700, 2810054310, 28011-54070

Manuf/Sys: **NIPPON DENSO**

Teeth	Gear OD	Length	Splines	Rotation
11	39.7mm	146.5mm	10 Spline	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . BOBCAT. CASE. CLARK. CUMMINS. DAIHATSU COMMERCIAL. FORD. ISUZU FTR, JCM, JCR, SBR, SCR. KUBOTA. TOYOTA DA110, DYNA, FORKLIFTS, LAND CRUISER

AOPEC
A0128028007B, A012802820R

Replacing: 2801154010, 0283002011, 2801177090, 280111260, 1811220490

Manuf/Sys: **SAWAFUJI**

Teeth	Gear OD	Length	Splines	Rotation
11	39.8mm	104mm	12 Spline;	Clock

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). FITS: 03555020017

Vehicle Apps: . NISSAN. TOYOTA

AOPEC
A013802804

Replacing:

Manuf/Sys: **VALEO**

Teeth	Gear OD	Length	Splines	Rotation
10	26mm	51mm	10 Spline	Clock

Desc/Notes: D6RA. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . OPEL ASTRA. RENAULT CLIO

AOPEC
A010020100

Replacing: 594252, 594177, NE877

Manuf/Sys: **VALEO**

Teeth	Gear OD	Length	Splines	Rotation
10	31.4mm	54.7mm	9 Spline	Clock

Desc/Notes: D7R;D8R. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . NISSAN. RENAULT

AOPEC
A010002811

Replacing: 594410, 188993

Bendix Drives

Manuf/Sys: **VALEO**

Teeth	Gear OD	Length	Splines	Rotation
10	31.3mm	69.7mm	10 Spline	Clock

Desc/Notes: D7R. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . JOHN DEERE

AOPEC
A010002810

Replacing: 187084, 594308

Manuf/Sys: **VALEO**

Teeth	Gear OD	Length	Splines	Rotation
11	28.8mm	54.5mm	9 Spline	Clock

Desc/Notes: D7R. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . CITROEN. JEEP. MERCEDES-BENZ. PEUGEOT. RENAULT. TATA. VOLVO

AOPEC
A018902800

Replacing: 584185, 185915, 549185, 594185, NE834

Manuf/Sys:	Category:	AOPEC:
BOSCH	**BRACKET CE** **Desc/Notes:** IF;JF;ID;IE. DD (DIRECT DRIVE). 0001362… | 0001363… | 0001364… | 0001366… | 0001367… | 0001368… | 0001369… | 0001372… AND 9000143… SERIES **Vehicle Apps:** . DAF. DEUTZ. FIAT. FORD. INTERNATIONAL HARVESTER. IVECO. KHD. MAN. MERCEDES-BENZ. RENAULT. SAME. SCANIA. VOLVO	A010400621B **Replacing:** 2005854094
DELCO	**BRACKET CE** **Desc/Notes:** 37MT;41MT. DD (DIRECT DRIVE). **Vehicle Apps:** . BOBCAT. CATERPILLAR. CHEVROLET TRUCKS. CUMMINS. FORD. INGERSOLL RAND. INTERNATIONAL HARVESTER. JOHN DEERE. MACK. PERKINS	A010468709, A10468709 **Replacing:** 10468709, 10469809, D3339
DELCO	**BRACKET CE** **Desc/Notes:** 50MT. DD (DIRECT DRIVE). **Vehicle Apps:** . CATERPILLAR. CUMMINS. FREIGHTLINER. JOHN DEERE. KOMATSU. VOLVO	A1945848 **Replacing:** 1945847, 1945848, 1953227
DELCO	**BRACKET CE** **Desc/Notes:** 39MT. PLGR (PLANETARY GEAR REDUCTION). SECOND GENERATION **Vehicle Apps:** . CATERPILLAR. CUMMINS. FREIGHTLINER. VOLVO	A532500602R **Replacing:** 10511780
LUCAS	**BRACKET CE** **Desc/Notes:** M50;M127. DD (DIRECT DRIVE). **Vehicle Apps:** . ADE. CASE. DEUTZ. FORD. HYSTER. KHD. LANDINI. LEYLAND. LINDE. MASSEY FERGUSON. NEW HOLLAND. PERKINS	A012300650R **Replacing:** 54246328
NIKKO	**BRACKET CE** **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . CATERPILLAR. CUMMINS. KOMATSU	A0-23711-0221 **Replacing:** 0237110221
NIKKO	**BRACKET CE** **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . KOMATSU	A012900602 **Replacing:** 0237100221

Brackets

Manuf/Sys: **BOSCH**	Category: **BRACKET CE, BRUSH HOLDER**	**AOPEC:** A010400626
	Desc/Notes: QB. DD (DIRECT DRIVE). 0001510... SERIES **Vehicle Apps:** . DAF. DEUTZ. FIAT. KHD. SAMIL. VOLVO	**Replacing:** 2005856050, 2005856104, 4797265, 693030, 9925344
Manuf/Sys: **BOSCH**	Category: **BRACKET DE**	**AOPEC:** A010400568R
	Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001230..., 0001231... SERIES **Vehicle Apps:** . ADE. BELL B20B. DEUTZ. KHD. SAME. TOYOTA	**Replacing:** 6033AD0082, 6033AD0448
Manuf/Sys: **BOSCH**	Category: **BRACKET DE**	**AOPEC:** A010400525
	Desc/Notes: KB. DD (DIRECT DRIVE). KB CONVERSION BRACKET **Vehicle Apps:** . MITSUBISHI FUSO	**Replacing:**
Manuf/Sys: **BOSCH**	Category: **BRACKET DE**	**AOPEC:** A020400509
	Desc/Notes: KB. DD (DIRECT DRIVE). KB CONVERSION BRACKET **Vehicle Apps:** . TOYOTA DA110, DA6000	**Replacing:**
Manuf/Sys: **BOSCH**	Category: **BRACKET DE**	**AOPEC:** A010400536
	Desc/Notes: KB. DD (DIRECT DRIVE). 0001410...; 0001411...; 0001413...; 0001414...; 0001416...; 0001417... SERIES **Vehicle Apps:** . DAF. FIAT. KHD. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ. RENAULT. VOLVO	**Replacing:** 2005825083, 2005825186, 2005825081, 240740, 697879
Manuf/Sys: **BOSCH**	Category: **BRACKET DE**	**AOPEC:** A530013247
	Desc/Notes: KB. DD (DIRECT DRIVE). KB CONVERSION BRACKET **Vehicle Apps:** . TOYOTA HINO	**Replacing:**
Manuf/Sys: **BOSCH**	Category: **BRACKET DE**	**AOPEC:** A010400549
	Desc/Notes: KB. DD (DIRECT DRIVE). KB CONVERSION BRACKET **Vehicle Apps:** . NISSAN CW50	**Replacing:**

Manuf/Sys:	Category:	AOPEC:
BOSCH	**BRACKET DE** **Desc/Notes:** KB. DD (DIRECT DRIVE). CRADLE MOUNT **Vehicle Apps:** . MERCEDES-BENZ. SCANIA	A010400558 **Replacing:** 2005825071
BOSCH	**BRACKET DE** **Desc/Notes:** KB. DD (DIRECT DRIVE). **Vehicle Apps:** . BELL. DEUTZ. KHD. SAMIL 100, 50	A530013269 **Replacing:** 2005825316
BOSCH	**BRACKET DE** **Desc/Notes:** JD. DD (DIRECT DRIVE). **Vehicle Apps:** . ADE. BELL. BOMAG. DEUTZ. IVECO. KHD. TOYOTA HINO	A010400511 **Replacing:** 2005824916, 2004824692
BOSCH	**BRACKET DE** **Desc/Notes:** KB. DD (DIRECT DRIVE). KB CONVERSION BRACKET **Vehicle Apps:** . RENAULT TRUCK 12.0L	A010400514 **Replacing:**
BOSCH	**BRACKET DE** **Desc/Notes:** KB. DD (DIRECT DRIVE). KB CONVERSION BRACKET **Vehicle Apps:** . HINO 700	A010400570 **Replacing:**
DELCO	**BRACKET DE** **Desc/Notes:** 39MT. PLGR (PLANETARY GEAR REDUCTION). **Vehicle Apps:** . MERCEDES-BENZ	A022500600 **Replacing:**
DELCO	**BRACKET DE** **Desc/Notes:** 40MT;50MT. DD (DIRECT DRIVE). **Vehicle Apps:** . CATERPILLAR. CUMMINS. ERF. INGERSOLL RAND. INTERNATIONAL	A011100505B **Replacing:** 1949606, 1945506, 1957846, 8L5265, 9M7202

Brackets

Manuf/Sys: **DELCO**	Category: **BRACKET DE** **Desc/Notes:** 50MT. DD (DIRECT DRIVE). **Vehicle Apps:** . CATERPILLAR. CUMMINS. ERF. KOMATSU	**AOPEC:** A1951258 **Replacing:** 1109781, 1951257, 1951258, 7M0334
Manuf/Sys: **DELCO**	Category: **BRACKET DE** **Desc/Notes:** 39MT. PLGR (PLANETARY GEAR REDUCTION). **Vehicle Apps:** . CATERPILLAR. CUMMINS. VOLVO	**AOPEC:** A011100554B **Replacing:** 10512027
Manuf/Sys: **DELCO**	Category: **BRACKET DE** **Desc/Notes:** 42MT. DD (DIRECT DRIVE). **Vehicle Apps:** . CATERPILLAR. CUMMINS	**AOPEC:** A011000508 **Replacing:** 1988748
Manuf/Sys: **DELCO**	Category: **BRACKET DE** **Desc/Notes:** 42MT. DD (DIRECT DRIVE). **Vehicle Apps:** . CASE. CATERPILLAR. CUMMINS. ERF. FORD. INTERNATIONAL EAGLE. JOHN DEERE. MACK. VOLVO	**AOPEC:** A011100542, A011100542R **Replacing:** 1988779, 1988137, 1988438
Manuf/Sys: **DELCO**	Category: **BRACKET DE** **Desc/Notes:** 28MT. OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . BOBCAT. CLARK. HYSTER. PERKINS	**AOPEC:** A011100521 **Replacing:** 10457052, 0233101380
Manuf/Sys: **DELCO**	Category: **BRACKET DE** **Desc/Notes:** 37MT. DD (DIRECT DRIVE). **Vehicle Apps:** . CUMMINS. INGERSOLL RAND. JOHN DEERE	**AOPEC:** A1986351 **Replacing:** 1986351
Manuf/Sys: **NIKKO**	Category: **BRACKET DE** **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . KOMATSU	**AOPEC:** A0-23310-1580 **Replacing:** 0233101580

Manuf/Sys:	Category:	AOPEC:
NIKKO	**BRACKET DE** **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . KOMATSU	A0-23300-0270 **Replacing:** 0233000270
NIPPON DENSO	**BRACKET DE** **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . CATERPILLAR	A534700501 **Replacing:**
PRESTOLITE	**BRACKET DE** **Desc/Notes:** MFY. STEERING MOTOR **Vehicle Apps:** . VARIOUS EARTHMOVING AND INDUSTRIAL APPLICATIONS	A143100501 **Replacing:** MBD523, 22515
DELCO	**BRACKET INTERMEDIATE** **Desc/Notes:** 50MT. DD (DIRECT DRIVE). **Vehicle Apps:** . CATERPILLAR. CUMMINS. DRILLTECH. ERF. EUCLID. GENERAL MOTORS. HAULPAK. INGERSOLL RAND. KENWORTH. KOMATSU. OSHKOSH	A1979870 **Replacing:** 1979870, 7M0333, 1953223, 1945857, 1979598
NIKKO	**BRACKET INTERMEDIATE** **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . CATERPILLAR. CUMMINS. KENWORTH. KOMATSU	A1-23600-0080 **Replacing:** 1236000080
SAWAFUJI	**BRACKET INTERMEDIATE** **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . KOMATSU	A013810801 **Replacing:** 224406821X0

Brush Holders

Manuf/Sys: **BOSCH**

Volts	OD	ID	Mounting Holes: A=43mm
12V	67mm	35mm	

Desc/Notes: DB;DW. PMDD (PERMANENT MAGNET - DIRECT DRIVE);PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001107...; 0001108...; 0001121... SERIES

Vehicle Apps: . AUDI. CHRYSLER. FORD. HONDA. ISUZU. MAZDA. MITSUBISHI. OPEL. SEAT. TOYOTA. VOLKSWAGEN

AOPEC: A010014207B, A0104000908

Replacing: 1004336961, 1004336821, 1004336417, 085831951

Manuf/Sys: **BOSCH**

Volts	OD	ID	Mounting Holes: A=46mm
12V	73mm	37mm	

Desc/Notes: DM. PMDD (PERMANENT MAGNET - DIRECT DRIVE). 0001112… | 9000081… | F000AL0… SERIES

Vehicle Apps: . AUDI. CHRYSLER. CITROEN. FORD. MAZDA. OPEL. PEUGEOT. TATA. VOLKSWAGEN

AOPEC: A010014205B

Replacing: 1004336963, F000AL1055

Manuf/Sys: **BOSCH**

Volts	OD	ID
12V	73mm	

Desc/Notes: DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . CATERPILLAR. JCB. PERKINS

AOPEC: A010400902

Replacing: 1004336361

Manuf/Sys: **BOSCH**

Volts	OD	ID	Mounting Holes: A=53mm
12V	87mm	23mm	

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001362... SERIES

Vehicle Apps: . ADE. BELL. BOMAG. CASE. DEUTZ. FENDT. FIAT TRACTORS. INTERNATIONAL HARVESTER. ISUZU. KHD. LINDE. MAGIRUS-DEUTZ. MERCEDES-BENZ. RENAULT. SAME. TOYOTA HINO

AOPEC: A01110104004

Replacing: 2004336027, 085836027

Manuf/Sys: **BOSCH**

Volts	OD	ID	Mounting Holes: A=53mm
12V	87mm	23mm	

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001362…, 0001366…, 9000143... SERIES

Vehicle Apps: . ADE. BELL. CASE. DEUTZ. FENDT. FIAT TRACTORS. INTERNATIONAL HARVESTER. ISUZU. IVECO. KHD. LINDE. MAGIRUS-DEUTZ. MERCEDES-BENZ. RENAULT. SAME. TOYOTA HINO

AOPEC: A010400904

Replacing: 2004336041

Manuf/Sys: **BOSCH**

Volts	OD	ID	Mounting Holes: A=75mm, B=55mm
12V	90mm	60mm	

Desc/Notes: DD (DIRECT DRIVE). TAKES BSX35 BRUSHES

Vehicle Apps: . MAN. MERCEDES-BENZ. VOLVO

AOPEC: A010400922

Replacing: 2004335070, 2004335072

Manuf/Sys: **BOSCH**

Volts	OD	ID	Mounting Holes: A=74mm
12V	90.9mm	33.2mm	

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). FITS STARTER: 0001223016

Vehicle Apps: . DEUTZ. IVECO. KHD. MERCEDES-BENZ

AOPEC: A010400926

Replacing: 6033AD0368, 6033AD0401, 6033AD1246

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Manuf/Sys: **BOSCH**

Volts	OD	ID	Mounting Holes: A=52.6mm
12V	93.2mm	23mm	

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001367…, 9000143... SERIES

Vehicle Apps: . ADE. BELL. CASE. CATERPILLAR. CLAAS. DEUTZ. FIAT TRACTORS. INTERNATIONAL HARVESTER. IVECO. JOHN DEERE. KHD. LANCIA. MAGIRUS-DEUTZ. MERCEDES-BENZ. NEW HOLLAND. SAME. SAMIL. TOYOTA HINO

AOPEC: A010400906

Replacing: 2004336028, 2004336044, 085836028

Manuf/Sys: **BOSCH**

Volts	OD	ID	Mounting Holes: A=53mm
24V	87mm	23mm	

Desc/Notes: IF;JF. DD (DIRECT DRIVE). 0001368…; 9000143… SERIES

Vehicle Apps: . ADE. BELL. CLAAS. DEUTZ. FORD TRACTORS AND TRUCKS. INTERNATIONAL. ISUZU. IVECO. JOHN DEERE. KHD. LEYLAND. MAN. MERCEDES-BENZ. MITSUBISHI. NISSAN. PERKINS. TOYOTA HINO

AOPEC: A018300901

Replacing: 2004336031, 2004336046, 085836031

Manuf/Sys: **BOSCH**

Volts	OD	ID	Mounting Holes: A=53mm, B=53mm
24V	96mm	23mm	

Desc/Notes: JE. DD (DIRECT DRIVE). 0001372… SERIES

Vehicle Apps: . BELL. MERCEDES-BENZ ACTROS, TRAVEGO

AOPEC: A011000902

Replacing: 2004336085, 085836085

Manuf/Sys: **BOSCH**

Volts	OD	ID
24V	111.5mm	48mm

Desc/Notes: IE. DD (DIRECT DRIVE). 0001371… SERIES

Vehicle Apps: . DAF. MAN. MERCEDES-BENZ. SCANIA

AOPEC: A011000904

Replacing: 2004336078

Manuf/Sys: **DELCO**

Volts	OD	ID	Mounting Holes: A=88mm x2, B=70mm
12V;24V	106.5mm	55mm	

Desc/Notes: 40MT. DD (DIRECT DRIVE). 8-BRUSH

Vehicle Apps: . CASE. CATERPILLAR. CUMMINS. ERF. INTERNATIONAL EAGLE, HARVESTER. MACK

AOPEC: A011100911B

Replacing: 1948515, 1945517, 4M1846, 9M7623

Manuf/Sys: **DELCO**

Volts	OD	ID	Mounting Holes: A=87mm x2, B=69mm
12V;24V	108mm	54mm	

Desc/Notes: 40MT. DD (DIRECT DRIVE). 4-BRUSH

Vehicle Apps: . CATERPILLAR. CUMMINS. ERF. INGERSOLL RAND

AOPEC: A011100913B

Replacing: 1979387, 1979494

Manuf/Sys: **DELCO**

Volts	OD	ID	Mounting Holes: A=93mm x3
12V;24V	118mm	60mm	

Desc/Notes: 50MT. DD (DIRECT DRIVE). 12-BRUSH

Vehicle Apps: . CATERPILLAR. CUMMINS. ERF. EUCLID. KENWORTH. KOMATSU. OSHKOSH

AOPEC: A011100916

Replacing: 1945849, 1953229, 1967354, 3T9525, 7M0330

Brush Holders

Manuf/Sys: **DELCO**

Volts	OD	ID	Mounting Holes: A=93mm x3
24V	118mm	52mm	

Desc/Notes: 50MT. DD (DIRECT DRIVE). 6-BRUSH

Vehicle Apps: . CATERPILLAR. CUMMINS. ERF. EUCLID. KENWORTH. KOMATSU. OSHKOSH

AOPEC: A011100901

Replacing: 1984974, 1985065

Manuf/Sys: **DELCO**

Volts	OD	ID
24V	127mm	60mm

Desc/Notes: 42MT. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. CATERPILLAR. CUMMINS. ERF. FORD. INTERNATIONAL EAGLE. JOHN DEERE. MACK. VOLVO

AOPEC: A011100941B

Replacing: 1988121, 1988122, 8T8570

Manuf/Sys: **HITACHI**

Volts	OD	ID	Mounting Holes: A=63.5mm
12V	72.4mm	38.8mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . ISUZU. NISSAN. YANMAR

AOPEC: A010000913

Replacing: 213063022, 22403310, 233781W400, 8944788630, 213053021

Manuf/Sys: **HITACHI**

Volts	OD	ID	Mounting Holes: A=71mm
12V	80mm	44.3mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU. YANMAR

AOPEC: AYM121254-77571

Replacing: 213033021

Manuf/Sys: **ISKRA**

Volts	OD	ID	Mounting Holes: A=70mm
12V	82mm	49mm	

Desc/Notes: AZJ. DD (DIRECT DRIVE).

Vehicle Apps: . JOHN DEERE

AOPEC: A017900902

Replacing: 16905687

Manuf/Sys: **LUCAS**

Volts	OD	ID	Mounting Holes: A=42mm
12V	54.5mm	20.5mm	

Desc/Notes: M35J;M35;M35K. INERTIA;DD (DIRECT DRIVE).

Vehicle Apps: . CHEVROLET. FORD ANGLIA, BANTAM, CORTINA. ISUZU WFR, RELAY, KB20, KB21, PETROL. LEYLAND MINI. OPEL. TOYOTA

AOPEC: A012300906

Replacing: 66240004, 66740126

Manuf/Sys: **LUCAS**

Volts	OD	ID	Mounting Holes: A=72.5mm
12V	89mm	47.7mm	

Desc/Notes: M45G. DD (DIRECT DRIVE).

Vehicle Apps: . HYSTER. MASSEY FERGUSON. PERKINS

AOPEC: A012300904J

Replacing: 54266043

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Manuf/Sys: **MAGNETI-MARELLI**

Volts	OD	ID	Mounting Holes: A=46.1mm
12V	73.1mm	11mm	

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . IVECO. JCB. MASSEY FERGUSON. PERKINS

AOPEC: A580000806

Replacing: 83226336

Manuf/Sys: **MITSUBISHI**

Volts	OD	ID	Mounting Holes: A=57mm
12V	68mm	31mm	

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . CHRYSLER. FORD. HYUNDAI. KIA. MAZDA. MITSUBISHI. NISSAN. SUBARU. SUZUKI

AOPEC: A010000909, A012600901, A2337842L70

Replacing: M649T01271, MD611217, 2337842L70, M649T01272, M649T01273

Manuf/Sys: **MITSUBISHI**

Volts	OD	ID	Mounting Holes: A=63mm
12V	72mm	34mm	

Desc/Notes: PMGR (PERMANENT MAGNET - GEAR REDUCTION).

Vehicle Apps: . MITSUBISHI CANTER, FUSO

AOPEC: AM649X20471

Replacing: M649X20471, ME701467

Manuf/Sys: **MITSUBISHI**

Volts	OD	ID	Mounting Holes: A=63mm
24V	73mm	34mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . AMC. CASE. CLARK. FORD. HYUNDAI. INTERNATIONAL HARVESTER. KIA. MAZDA. MITSUBISHI. NISSAN. SAME. SUMITOMO. YALE

AOPEC: A010000906

Replacing: M649T05072, ME700140

Manuf/Sys: **MITSUBISHI**

Volts	OD	ID	Mounting Holes: A=67mm
24V	75mm	42mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . FURUKAWA. MITSUBISHI FUSO

AOPEC: A012500901

Replacing: M649T04971, M649T07371

Manuf/Sys: **NIKKO**

Volts	OD	ID	Mounting Holes: A=46mm
12V	62mm	33mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU

AOPEC: A0-23750-0220

Replacing: 0237500220

Manuf/Sys: **NIKKO**

Volts	OD	ID	Mounting Holes: A=62mm
24V	79mm	46mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . HITACHI EXCAVATOR EX30, EX300. ISUZU. KOMATSU

AOPEC: A0-23750-0050, A7-23750-0120

Replacing: 1811180320, 0237500050, 0237500250, 7237500120

Brush Holders

Manuf/Sys: **NIKKO**

Volts	OD	ID	Mounting Holes: A=67.7mm
24V	79.8mm	38.3mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU

AOPEC: A012900902

Replacing: 0247500030

Manuf/Sys: **NIKKO**

Volts	OD	ID
24V	92mm	59mm

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . ISUZU

AOPEC: A0-21750-1432

Replacing: 1811180180, 0217501432

Manuf/Sys: **NIPPON DENSO**

Volts	OD	ID	Mounting Holes: A=53.5mm, B=53.5mm
12V	58.5mm;	12mm	

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION). FITS: STR6421

Vehicle Apps: . TOYOTA LAND CRUISER PRADO 2.7L, QUANTUM

AOPEC: A012800953

Replacing:

Manuf/Sys: **NIPPON DENSO**

Volts	OD	ID	Mounting Holes: A=67mm
12V;24V	82mm	41mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . BOBCAT. CASE. CLARK. CUMMINS. DAIHATSU. FORD. ISUZU JCM, JCR, SBR, SCR. JOHN DEERE. KUBOTA. TOYOTA DYNA, FORKLIFTS, HINO

AOPEC: A012800920

Replacing: 2814077090, 0285100500

Manuf/Sys: **SAWAFUJI**

Volts	OD	ID	Mounting Holes: A=54mm
24V	70mm	39mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . TOYOTA HINO

AOPEC: A013800902

Replacing: 133107100X0

Manuf/Sys: **SAWAFUJI**

Volts	OD	ID	Mounting Holes: A=57mm
24V	75mm	42mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . TOYOTA HINO

AOPEC: A263800001

Replacing: 281401280, 2333099202, 133103900X0

Manuf/Sys: **SAWAFUJI**

Volts	OD	ID	Mounting Holes: A=46.3mm
24V	81.7mm	45.2mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . NISSAN. TOYOTA HINO

AOPEC: A133103410X9

Replacing: 133103410X9

Manuf/Sys: **SAWAFUJI**

Volts	OD	ID	Mounting Holes: A=64.3mm
24V	86mm	46mm	

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU

AOPEC:
A013800803

Replacing: 281401290, 133104300X0, 133104600X0

Field Coils

Manuf/Sys: **BOSCH**

Volts	Inside Length	Inside Width
12V	47mm	25mm

Desc/Notes: EF. DD (DIRECT DRIVE). FOR ANTI-CLOCK ROTATION STARTERS. CCW (ANTI-CLOCK)

Vehicle Apps: . DAIHATSU CHARADE. PEUGEOT 305. PORSCHE 914. VOLKSWAGEN FOX 1.3L, 1.6L, 1.8L, GOLF I 1.3L, 1.6L, 1.8L, II 1.8L, III 1.6L, 1.8 L, JETTA 1.3L, 1.5L, 1.6L, 1.8L, KOMBI, MICROBUS, POLO, TRANSPORTER

AOPEC: A010400305

Replacing: 9001692019, 1004112553, 1004112564, 582069

Manuf/Sys: **BOSCH**

Volts	Inside Length	Inside Width
12V	88mm	32mm

Desc/Notes: IF;JF. DD (DIRECT DRIVE). LONG.

Vehicle Apps: . ADE. BELL. CASE. CATERPILLAR. DEUTZ. FIAT TRACTORS. INTERNATIONAL HARVESTER. IVECO. JOHN DEERE. KHD. MAGIRUS-DEUTZ. MASSEY FERGUSON. MERCEDES-BENZ. NEW HOLLAND. SAMIL. TOYOTA HINO

AOPEC: A010400325A, A010400335, A018300301

Replacing: 2004114060, 2004114291, 2004114061, 2004114297, 2004114137

Manuf/Sys: **BOSCH**

Volts	Inside Length	Inside Width
12V	73mm	32mm

Desc/Notes: BNG. DD (DIRECT DRIVE).

Vehicle Apps: . BEDFORD. CLAAS. DEUTZ. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ. VOLVO

AOPEC: A010402889

Replacing: 2004105017, 2004105012, 2004105015

Manuf/Sys: **BOSCH**

Volts	Inside Length	Inside Width
12V	65.5mm	28mm

Desc/Notes: KB. DD (DIRECT DRIVE).

Vehicle Apps: . DAF. MAN. VOLVO

AOPEC: A010402884

Replacing: 2004125089

Manuf/Sys: **BOSCH**

Volts	Inside Length	Inside Width
24V	88mm	33mm

Desc/Notes: IF;JF. DD (DIRECT DRIVE). LONG.

Vehicle Apps: . ADE. BELL. DAF. FORD TRACTORS AND TRUCKS. INTERNATIONAL. ISUZU. IVECO. JOHN DEERE. KHD. MAN. MASSEY FERGUSON. MERCEDES-BENZ. PERKINS. TOYOTA HINO

AOPEC: A010400334

Replacing: 2004114065, 2004114295, 2004114135, 2004114066, 2004114067

Manuf/Sys: **BOSCH**

Volts	Inside Length	Inside Width
24V	100.4mm;99.3mm	32.3mm;30.2mm

Desc/Notes: QB. DD (DIRECT DRIVE). MAINS AND AUXILIARY SEPARATE.

Vehicle Apps: . DEUTZ. INTERNATIONAL HARVESTER. KHD. MERCEDES-BENZ. SAMIL

AOPEC: A010400354

Replacing: 2004116099

Manuf/Sys: **BOSCH**

Volts	Inside Length	Inside Width
24V	N/A	N/A

Desc/Notes: EV. PLGR (PLANETARY GEAR REDUCTION). 0001231... SERIES.

Vehicle Apps: . DAF. DEUTZ. IVECO. KHD. MAN. MERCEDES-BENZ. RENAULT. VOLVO

AOPEC: A010400319

Replacing: 6033AD0151, 6033AD4098, 6033AD4108

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Manuf/Sys: **BOSCH**

Volts	Inside Length	Inside Width
24V	84.5mm	28.5mm

Desc/Notes: KB. DD (DIRECT DRIVE).

Vehicle Apps: . INTERNATIONAL HARVESTER. KHD. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ. RENAULT. TOYOTA HINO

AOPEC: A010400351

Replacing: 2004125083, 2004125076, 084180083

Manuf/Sys: **BOSCH**

Volts	Inside Length	Inside Width
24V	85mm	30mm

Desc/Notes: JE/IE. DD (DIRECT DRIVE). 0001371 AND 0001372 SERIES. CW (CLOCK-WISE)

Vehicle Apps: OM541, OM542, XF355M-Engine. BELL. DAF 95XF, CF85. MERCEDES-BENZ ACTROS, AXOR, TRAVEGO

AOPEC: A011000301

Replacing: 2004124005, 1337451, 0001519655, 084179005

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
12V	102mm	32mm

Desc/Notes: 20MT;27MT;25MT. DD (DIRECT DRIVE).

Vehicle Apps: . CLARK. HYSTER. JOHN DEERE. PERKINS. YALE

AOPEC: A011100302

Replacing: 1956384, 1891918, 3M5833, 8M5833

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
12V	53mm	21mm

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . BOBCAT. CASE. CHEVROLET 6.2L, 6.5L. CLARK. CUMMINS. FORD. HYSTER. JOHN DEERE. MASSEY FERGUSON. NEW HOLLAND. PERKINS

AOPEC: A011100328

Replacing: 10456473, 10483822

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
12V	88mm	33mm

Desc/Notes: 37MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. JOHN DEERE

AOPEC: A011100337

Replacing: 1985324

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
12V	66mm	27mm

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . CATERPILLAR. FREIGHTLINER. MACK. MERCEDES-BENZ

AOPEC: A011100303B

Replacing: 10511404

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
12V	N/A	N/A

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . CATERPILLAR. FREIGHTLINER. MERCEDES-BENZ

AOPEC: A021000801

Replacing: 10511404

Field Coils

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
24V	90mm	34mm

Desc/Notes: 41MT. DD (DIRECT DRIVE).

Vehicle Apps: . BOBCAT. CATERPILLAR. CUMMINS. ERF. MACK. PERKINS

AOPEC: A011100340B

Replacing: 10472563, 3E7852, 9X0288

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
24V	111mm	33mm

Desc/Notes: 40MT. DD (DIRECT DRIVE).

Vehicle Apps: . CASE. CATERPILLAR. CUMMINS. ERF. GENERAL MOTORS. INTERNATIONAL EAGLE, HARVESTER. MACK

AOPEC: A011100316B

Replacing: 1945496, 1846926, 1974929, 4M1839, 7N1283

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
24V	N/A	N/A

Desc/Notes: 29MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . BELL. MERCEDES-BENZ

AOPEC: A011013801

Replacing: 10515832

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
24V	109mm	33mm

Desc/Notes: 42MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. CUMMINS. ERF. INTERNATIONAL. MACK

AOPEC: A011100342B

Replacing: 1988442, 7T3277

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
24V	77mm	36mm

Desc/Notes: 30MT. DD (DIRECT DRIVE).

Vehicle Apps: . CATERPILLAR. JOHN DEERE

AOPEC: A011000305

Replacing: 1951857

Manuf/Sys: **DELCO**

Volts	Inside Length	Inside Width
24V	N/A	N/A

Desc/Notes: 39MT. PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . VARIOUS APPLICATIONS

AOPEC: A012500302

Replacing:

Manuf/Sys: **LUCAS**

Volts	Inside Length	Inside Width
12V	76mm	29mm

Desc/Notes: M45G. DD (DIRECT DRIVE).

Vehicle Apps: . ADE. BELL. CASE. FORD TRACTORS. LAND ROVER. LANDINI. MASSEY FERGUSON. PERKINS

AOPEC: A012300316

Replacing: 272394, TEB132, 60600054, CF4

Manuf/Sys: **LUCAS**

Volts	Inside Length	Inside Width
12V	75mm	30mm

Desc/Notes: M50G. DD (DIRECT DRIVE).

Vehicle Apps: . ADE. CASE. FORD TRACTOR. HYSTER. MASSEY FERGUSON. NEW HOLLAND. PERKINS

AOPEC: A012300324

Replacing: 54267617, 54243851, 60251471, 60600018, TEB105

Manuf/Sys: **MAGNETI-MARELLI**

Volts	Inside Length	Inside Width
12V	39mm	17mm

Desc/Notes: PLGR (PLANETARY GEAR REDUCTION).

Vehicle Apps: . JCB. PERKINS

AOPEC: A010000306

Replacing:

Manuf/Sys: **MITSUBISHI**

Volts	Inside Length	Inside Width
24V	55mm	21.8mm

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . MITSUBISHI FUSO

AOPEC: A010000302

Replacing: M800T43171, ME700046

Manuf/Sys: **NIKKO**

Volts	Inside Length	Inside Width
24V	61mm	25mm

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . CATERPILLAR. CUMMINS. KOMATSU

AOPEC: A012900303

Replacing: 0232300150

Manuf/Sys: **NIKKO**

Volts	Inside Length	Inside Width
24V	63mm	24mm

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION). FITS STR8801.

Vehicle Apps: . FURUKAWA. ISUZU JCR360, JCR500

AOPEC: A012900301, AF/COIL01

Replacing: 5811120190, 1811293960, 0232300110

Manuf/Sys: **NIKKO**

Volts	Inside Length	Inside Width
24V	N/A	N/A

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . ISUZU JCR360, JCR500

AOPEC: A012900307

Replacing: 0232000120

Manuf/Sys: **NIKKO**

Volts	Inside Length	Inside Width
24V	82mm	23mm

Desc/Notes: STEERING MOTOR.

Vehicle Apps: . VARIOUS EARTHMOVING AND INDUSTRIAL APPLICATIONS

AOPEC: A012900305

Replacing: 202900301, 0232000342

Field Coils

Manuf/Sys: **NIKKO**

Volts	Inside Length	Inside Width
24V	62mm	25mm

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . ISUZU. KOMATSU

AOPEC: A012900309

Replacing: 0242000040

Manuf/Sys: **NIPPON DENSO**

Volts	Inside Length	Inside Width
12V	N/A	N/A

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . TOYOTA DYNA

AOPEC: A012800320

Replacing: 2812047040

Manuf/Sys: **NIPPON DENSO**

Volts	Inside Length	Inside Width
24V	86.6mm	37.3mm

Desc/Notes:

Vehicle Apps: . HYUNDAI

AOPEC: A0501000

Replacing:

Manuf/Sys: **NIPPON DENSO**

Volts	Inside Length	Inside Width
24V	72mm	30mm

Desc/Notes: DD (DIRECT DRIVE).

Vehicle Apps: . TOYOTA DA6000, FORKLIFT

AOPEC: A012800323

Replacing: 2812166010, 0281100870

Manuf/Sys: **PRESTOLITE**

Volts	Inside Length	Inside Width
24V	120mm	32mm

Desc/Notes: MFY. STEERING MOTOR.

Vehicle Apps: . VARIOUS EARTHMOVING AND INDUSTRIAL APPLICATIONS

AOPEC: A1431003001

Replacing:

Manuf/Sys: **SAWAFUJI**

Volts	Inside Length	Inside Width
24V	N/A	N/A

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

Vehicle Apps: . KOMATSU

AOPEC: A013800302

Replacing: 131010030X0

Manuf/Sys: **SAWAFUJI**

Volts	Inside Length	Inside Width
24V	N/A	N/A

Desc/Notes: OSGR (OFFSET - GEAR REDUCTION).

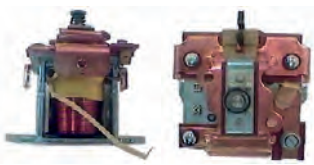
Vehicle Apps: . TOYOTA DYNA, HINO

AOPEC: A013800308

Replacing: 131013401X0

	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=37.3mm, B=37.3mm, C=37.3mm **Desc/Notes:** EV. 0001218... SERIES **Vehicle Apps:** . LAND ROVER. MERCEDES-BENZ. RANGE ROVER	**AOPEC:** A010002720 **Replacing:** 9330331006, A0011521310, BF6T11390A, 93278025, 2339303858
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=35.5mm, B=35.5mm, C=35.5mm **Desc/Notes:** EF. DD (DIRECT DRIVE). 0001211... SERIES **Vehicle Apps:** . BMW. FIAT. FORD. HONDA BALLADE. LANCIA. MAZDA. TOYOTA. VOLKSWAGEN	**AOPEC:** A010402773 **Replacing:** 0331303006, 0331303002, 9330693019, 9330693020, 2339303293
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=34mm **Desc/Notes:** EF. DD (DIRECT DRIVE). 0001211... SERIES **Vehicle Apps:** . ALFA ROMEO. AUDI. FIAT. FORD. HYUNDAI. MAZDA. MITSUBISHI. NISSAN. PEUGEOT. TOYOTA. VOLKSWAGEN	**AOPEC:** A010402722 **Replacing:** 0331302064, 0331302040, 933061028, 9330691001, 9330691089
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=34mm **Desc/Notes:** GF;EF. DD (DIRECT DRIVE). 9000692...; 0001157...; 0001311... SERIES **Vehicle Apps:** . AUDI. BMW. DAIHATSU. FIAT. FORD. HONDA. MAZDA. MITSUBISHI. NISSAN. PEUGEOT. TOYOTA. VOLKSWAGEN	**AOPEC:** A550002712 **Replacing:** 9330691007, 0331302044, 0331302045, 9330691001, 9330691013
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=35.5mm, B=35.5mm, C=35.5mm **Desc/Notes:** EF;DW;GF. DD (DIRECT DRIVE);PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001208...; 0001211...; 0001311...; 9000333... SERIES **Vehicle Apps:** . BMW. FIAT. FORD. LANCIA	**AOPEC:** A010002745 **Replacing:** 0331303005, 0331303016, 77EB11390BA, 083303005
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=39.7mm, B=39.7mm, C=39.7mm **Desc/Notes:** JD;IF;JF. DD (DIRECT DRIVE). 0001358...; 0001359...; 0001362...; 0001366...; 0001367... SERIES **Vehicle Apps:** . ADE. BELL. CASE. CATERPILLAR. DEUTZ. FIAT TRACTORS. FORD TRACTORS. INTERNATIONAL HARVESTER. IVECO. JOHN DEERE. KHD. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ. NEW HOLLAND. SAMIL	**AOPEC:** A010402752, A010402752B **Replacing:** 0331402001, 0331402004, 0331402700, 0331402035, 0331402513
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=40mm **Desc/Notes:** JD. DD (DIRECT DRIVE). 0001359... SERIES - 2-HOLE MOUNTING **Vehicle Apps:** . CLAAS. DEUTZ. HATZ. INTERNATIONAL HARVESTER. KHD. LINDE. MASSEY FERGUSON. SAME. STEYR	**AOPEC:** A010402793 **Replacing:** 0331401001, 083402073

Starter Solenoids

	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=35mm, B=35mm, C=35mm **Desc/Notes:** DW;EF;DM. PLGR (PLANETARY GEAR REDUCTION). 0001109... SERIES; 0001211... SERIES; 0001107... SERIES; 0001110... SERIES **Vehicle Apps:** . VOLKSWAGEN GOLF, JETTA, POLO	**AOPEC:** A010402774B **Replacing:** 0331303147, 0331303647, 2339303222, 2339303412
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=68mm **Desc/Notes:** KB. DD (DIRECT DRIVE). **Vehicle Apps:** . ADE. CLAAS. LEYLAND. MERCEDES-BENZ. VOLVO	**AOPEC:** A010402779 **Replacing:** 0331101011, 083106011
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=35mm, B=35mm, C=35mm **Desc/Notes:** DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 2339304... SERIES **Vehicle Apps:** . BMW	**AOPEC:** A010402795 **Replacing:** 2339304009, 2339304005, 2339304013, 2339304040
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=39.8mm, B=39.8mm, C=39.8mm **Desc/Notes:** IF. DD (DIRECT DRIVE). 0001367… AND 0001369… SERIES **Vehicle Apps:** . DAF. DEUTZ. FIAT TRACTORS. IVECO. KHD	**AOPEC:** A010002703 **Replacing:** 0331402068, 0331402006, 0331402042, 0331402530, 0331402705
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=38mm, B=38mm, C=38mm **Desc/Notes:** EV. PLGR (PLANETARY GEAR REDUCTION);PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001218… & 0001223… SERIES **Vehicle Apps:** . DEUTZ. KHD. VOLVO	**AOPEC:** A010402797 **Replacing:** 9330331010, 1319265
	Manuf/Sys: **BOSCH** Volts: 12V **Mounting Holes:** A=35.5mm, B=35.5mm, C=35.5mm **Desc/Notes:** DW. PMGR (PERMANENT MAGNET - GEAR REDUCTION). 0001107…, 0001108…, 0001109…, 0001115... SERIES **Vehicle Apps:** . CATERPILLAR. FORD RANGER. HATZ. IVECO. JCB. LOMBARDINI. MERCEDES-BENZ. NISSAN. OPEL. PERKINS. RENAULT. VOLVO	**AOPEC:** A010402708 **Replacing:** 2339304023, 2339304006, 2339304007, 2339304019, 2339304068
	Manuf/Sys: **BOSCH** Volts: 24V **Mounting Holes:** A=58mm, B=58mm, C=58mm, D=58mm **Desc/Notes:** IE. DD (DIRECT DRIVE). 0001371… SERIES - 4-HOLE MOUNT **Vehicle Apps:** . MERCEDES-BENZ. SCANIA	**AOPEC:** A011009502 **Replacing:** 2339403006, 1405979, 0011526310

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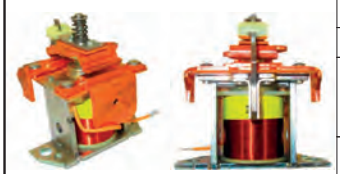
Manuf/Sys: **BOSCH**
Volts: 24V
Mounting Holes: A=39.8mm, B=39.8mm, C=39.8mm
Desc/Notes: JD;JF. DD (DIRECT DRIVE). 0001363...; 0001368... SERIES
Vehicle Apps: . ADE. BELL. DAF. INTERNATIONAL HARVESTER. IVECO. KHD. MAN. MASSEY FERGUSON. MERCEDES-BENZ. PERKINS
AOPEC: A010402702B
Replacing: 0331402015, 0331402007, 0331402054, 0331402051, 0331402507

Manuf/Sys: **BOSCH**
Volts: 24V
Mounting Holes: A=68.2mm
Desc/Notes: QB. DD (DIRECT DRIVE).
Vehicle Apps: . DEUTZ. KHD. MWM. SAMIL. VOLVO
AOPEC: A010402785
Replacing: 0331100023, 0331100022

Manuf/Sys: **BOSCH**
Volts: 24V
Mounting Holes: A=40mm, B=40mm, C=40mm
Desc/Notes: JF;JD. DD (DIRECT DRIVE).
Vehicle Apps: . BELL. DEUTZ. IVECO. KHD
AOPEC: A550402702
Replacing: 0331402008

Manuf/Sys: **BOSCH**
Volts: 24V
Mounting Holes: A=40mm, B=40mm, C=40mm
Desc/Notes: IF;JD;JF. DD (DIRECT DRIVE). 0001360...; 0001368... SERIES
Vehicle Apps: . ADE. INTERNATIONAL HARVESTER. JOHN DEERE. LEYLAND. MAN. MERCEDES-BENZ. MITSUBISHI. SCANIA
AOPEC: A010402763A
Replacing: 0331402010, 0331402037, 0331402537, 0331402615, 0331402201



Manuf/Sys: **BOSCH**
Volts: 24V
Mounting Holes: A=68mm;61mm (Smaller Holes CTC)
Desc/Notes: BNG. DD (DIRECT DRIVE).
Vehicle Apps: . ADE. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ
AOPEC: A010402777
Replacing: 0331101002, 0331101004, 083101004

Manuf/Sys: **BOSCH**
Volts: 24V
Mounting Holes: A=68mm
Desc/Notes: KB. DD (DIRECT DRIVE). 0001410...; 0001415...; 0001416...; 0001417... SERIES
Vehicle Apps: . ADE. BELL. ERF. FORD CARGO, TRUCKS. INTERNATIONAL HARVESTER. IVECO. KHD. MAGIRUS-DEUTZ. MAN. MERCEDES-BENZ. SAMIL. SCANIA. TOYOTA HINO. VOLVO
AOPEC: A010402780B, A010402799
Replacing: 0331101006, 0331101005, 083106006

Manuf/Sys: **BOSCH**
Volts: 24V
Mounting Holes: A=38.8mm, B=38.8mm, C=38.8mm
Desc/Notes: HEF95-L. PLGR (PLANETARY GEAR REDUCTION). 0001241... SERIES
Vehicle Apps: . DAF. SCANIA
AOPEC: A010402704
Replacing: 2339402220, 1658730

Starter Solenoids

	Manuf/Sys: **BOSCH** Volts: 24V **Mounting Holes:** A=58mm, B=58mm, C=58mm, D=58mm **Desc/Notes:** IE;JE. DD (DIRECT DRIVE). 0001371 AND 0001372 SERIES **Vehicle Apps:** . BELL. MERCEDES-BENZ ACTROS, AXOR, TRAVEGO. SCANIA	**AOPEC:** A010402753B, A2339403010 **Replacing:** 2339403010, 0011523210, 083413010
	Manuf/Sys: **BOSCH** Volts: 24V **Mounting Holes:** A=39.5mm, B=39.5mm, C=39.5mm **Desc/Notes:** EV. PLGR (PLANETARY GEAR REDUCTION). 0001231... SERIES **Vehicle Apps:** . MERCEDES-BENZ ATEGO	**AOPEC:** A011009505 **Replacing:** 2339402156, 2339402180, 2339402117, 0011524810
	Manuf/Sys: **BOSCH** Volts: 24V **Mounting Holes:** A=39.8mm, B=39.8mm, C=39.8mm **Desc/Notes:** EV. PLGR (PLANETARY GEAR REDUCTION). 0001231... SERIES **Vehicle Apps:** . DEUTZ. KHD	**AOPEC:** A010402701 **Replacing:** 2339402133, 2339402168
	Manuf/Sys: **BUTEC** Volts: 24V **Mounting Holes:** A=82mm **Desc/Notes:** MS1;MS3. DD (DIRECT DRIVE). **Vehicle Apps:** . CATERPILLAR. ERF. FODEN	**AOPEC:** A550502701 **Replacing:** 850686
	Manuf/Sys: **DELCO** Volts: 12V **Mounting Holes:** A=74mm **Desc/Notes:** 5MT;8MT;10MT;20MT;25MT;27MT;SD200;SD300. DD (DIRECT DRIVE). **Vehicle Apps:** . CHEVROLET. CLARK. GENERAL MOTORS. HYSTER. JOHN DEERE. MASSEY FERGUSON. PERKINS	**AOPEC:** A011102701, AESOL356 **Replacing:** 1114356, 1114251, 1114379, 83091, 3204349
	Manuf/Sys: **DELCO** Volts: 12V **Mounting Holes:** A=77.5mm, B=77.5mm, C=77.5mm **Desc/Notes:** 42MT. DD (DIRECT DRIVE). WITH PLUNGER **Vehicle Apps:** . CASE. CATERPILLAR. CUMMINS. FORD. GENERAL MOTORS. INGERSOLL RAND. INTERNATIONAL. JOHN DEERE. MACK. VOLVO	**AOPEC:** A011102706, A011102706R, A011102781B **Replacing:** 1115701, 1115664, 1115712
	Manuf/Sys: **DELCO** Volts: 12V **Mounting Holes:** A=71mm, B=45mm, C=71mm, D=45mm **Desc/Notes:** 50MT;40MT. DD (DIRECT DRIVE). SQUARE CONTACT PLATE **Vehicle Apps:** . CASE. CATERPILLAR. GENERAL MOTORS. INTERNATIONAL EAGLE, HARVESTER. MACK	**AOPEC:** A1115556 **Replacing:** 1115556, 10456390, 3T5045, E1HZ11390A

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	Manuf/Sys: **DELCO** Volts: 12V **Mounting Holes:** A=78mm, B=78mm, C=78mm **Desc/Notes:** 37MT;42MT. DD (DIRECT DRIVE). **Vehicle Apps:** . CASE. CATERPILLAR. FORD. INTERNATIONAL EAGLE. JOHN DEERE. MACK. VOLVO	**AOPEC:** A011102722, A011102741B **Replacing:** 1115593, 1115645, 10456393
	Manuf/Sys: **DELCO** Volts: 12V **Mounting Holes:** A=75mm **Desc/Notes:** 29MT. PLGR (PLANETARY GEAR REDUCTION). **Vehicle Apps:** . CASE. CUMMINS	**AOPEC:** A011002707 **Replacing:** 10515838
	Manuf/Sys: **DELCO** Volts: 12V **Mounting Holes:** A=75mm **Desc/Notes:** 28MT. OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . BOBCAT. CASE. CLARK. CUMMINS. DEUTZ. FORD. HYSTER. MASSEY FERGUSON. MERCEDES-BENZ. OSHKOSH. PERKINS	**AOPEC:** A0111002705, A011102728 **Replacing:** 10457055, D930A
	Manuf/Sys: **DELCO** Volts: 12V **Mounting Holes:** A=35.8mm, B=35.8mm, C=35.8mm **Desc/Notes:** PG260D;PG260F1;PG260F2;PG260G;PG260L;PG260M. PMGR (PERMANENT MAGNET - GEAR REDUCTION). **Vehicle Apps:** . DAEWOO. HYUNDAI. JOHN DEERE. KOHLER. VOLVO-PENTA	**AOPEC:** A011002705 **Replacing:** 10475646
	Manuf/Sys: **DELCO** Volts: 24V **Mounting Holes:** A=71mm, B=45.5mm;35.4mm, C=71mm, D=45.5mm;35.4mm **Desc/Notes:** 30MT;35MT. DD (DIRECT DRIVE). **Vehicle Apps:** . CATERPILLAR. INGERSOLL RAND. JOHN DEERE	**AOPEC:** A011102719 **Replacing:** 1115513, 1115543, 1115512, 1115536
	Manuf/Sys: **DELCO** Volts: 24V **Mounting Holes:** A=77.5mm, B=77.5mm, C=77.5mm **Desc/Notes:** 42MT. DD (DIRECT DRIVE). WITH PLUNGER **Vehicle Apps:** . CASE. CATERPILLAR. CUMMINS. FORD. GENERAL MOTORS. INGERSOLL RAND. INTERNATIONAL. JOHN DEERE. MACK. VOLVO	**AOPEC:** A011102707B **Replacing:** 1115667
	Manuf/Sys: **DELCO** Volts: 24V **Mounting Holes:** A=76mm, B=45mm, C=76mm, D=45mm **Desc/Notes:** 40MT;50MT. DD (DIRECT DRIVE). SQUARE CONTACT PLATE **Vehicle Apps:** . CATERPILLAR. CUMMINS. ERF. EUCLID. GENERAL MOTORS. INTERNATIONAL. KOMATSU. MACK. OSHKOSH	**AOPEC:** A011102716B, A011102724 **Replacing:** 1119848, 1119832, 10456391, 3T4704, 4N3890

Starter Solenoids

	Manuf/Sys: **DELCO** Volts: 24V **Mounting Holes:** A=71mm, B=45mm, C=71mm, D=45mm **Desc/Notes:** 40MT;50MT. DD (DIRECT DRIVE). ROUND CONTACT PLATE **Vehicle Apps:** . CATERPILLAR. CUMMINS. ERF. INTERNATIONAL. KOMATSU. MACK	**AOPEC:** A010002754B, A011102744, A011102745B **Replacing:** 1119848, 1119832
	Manuf/Sys: **DELCO** Volts: 24V **Mounting Holes:** A=75mm **Desc/Notes:** 29MT. PLGR (PLANETARY GEAR REDUCTION). **Vehicle Apps:** . MERCEDES-BENZ	**AOPEC:** A251015301 **Replacing:** 10518782
	Manuf/Sys: **DELCO** Volts: 24V **Mounting Holes:** A=78mm, B=78mm, C=78mm **Desc/Notes:** 37MT;42MT. DD (DIRECT DRIVE). **Vehicle Apps:** . CATERPILLAR. CUMMINS. ERF. INTERNATIONAL. MACK	**AOPEC:** A011102723, A011102742 **Replacing:** 1115595, 1115608, 10456394, 9X9511, 7T0258
	Manuf/Sys: **DELCO** Volts: 32-64V **Mounting Holes:** A=70mm, B=44mm, C=70mm, D=44mm **Desc/Notes:** 50MT. DD (DIRECT DRIVE). 32V - 48V - 64V **Vehicle Apps:** . CATERPILLAR. CUMMINS	**AOPEC:** A011102708B **Replacing:** 1115515, 1115567, 1115568
	Manuf/Sys: **FORD** Volts: 12V **Mounting Holes:** A=38mm **Desc/Notes:** PMGR (PERMANENT MAGNET - GEAR REDUCTION). **Vehicle Apps:** . FORD FIESTA, RANGER	**AOPEC:** A010002749 **Replacing:** E9OZ11390A, F02Z11390A, F3VY11390B, F4DZ11390A
	Manuf/Sys: **HITACHI** Volts: 12V **Mounting Holes:** A=38mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . NISSAN 2.5L DIESEL BAKKIE, 2.7L DIESEL BAKKIE, TERRANO 2.7L DIESEL	**AOPEC:** A011202702, A011902706 **Replacing:** 2334343G00, 2334302N00, 213067005, 23343-43G00
	Manuf/Sys: **HITACHI** Volts: 12V **Mounting Holes:** A=38mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION);DD (DIRECT DRIVE). **Vehicle Apps:** . MASSEY FERGUSON. NISSAN. PERKINS. TCM. YANMAR	**AOPEC:** A011902708 **Replacing:** 23343H5000, 23343H5001

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	Manuf/Sys: **HITACHI** Volts: 12V **Mounting Holes:** A=38mm **Desc/Notes:** DD (DIRECT DRIVE). **Vehicle Apps:** . ISUZU. NISSAN. TCM. THERMOKING. YALE	**AOPEC:** A550002701 **Replacing:** 5811510150, 2334361504, 23343G7001, 2334331W00, 5811510290
	Manuf/Sys: **HITACHI** Volts: 12V **Mounting Holes:** A=38.3mm **Desc/Notes:** DD (DIRECT DRIVE). **Vehicle Apps:** . DATSUN 2200 DIESEL, 680 DIESEL	**AOPEC:** A015102701 **Replacing:** 23343G7002, 2334337506
	Manuf/Sys: **HITACHI** Volts: 24V **Mounting Holes:** A=37.7mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . ISUZU ELF	**AOPEC:** A011902704 **Replacing:** 5811510080
	Manuf/Sys: **HITACHI** Volts: 24V **Mounting Holes:** A=70.5mm **Desc/Notes:** DD (DIRECT DRIVE). SMALL POST **Vehicle Apps:** . NISSAN TRUCK, UG780	**AOPEC:** A011202704 **Replacing:** 2334390008, 2334399007, 2334399008, 2334399010, 2250I1700Y
	Manuf/Sys: **ISKRA** Volts: 12V **Mounting Holes:** **Desc/Notes:** AZJ. DD (DIRECT DRIVE). **Vehicle Apps:** . JOHN DEERE. SAME	**AOPEC:** A050009528 **Replacing:** 16905754
	Manuf/Sys: **ISKRA** Volts: 24V **Mounting Holes:** A=40mm **Desc/Notes:** AZE. PMGR (PERMANENT MAGNET - GEAR REDUCTION). **Vehicle Apps:** . CATERPILLAR. JCB. PERKINS	**AOPEC:** A017902701 **Replacing:** 16.907.266
	Manuf/Sys: **LUCAS** Volts: 12V **Mounting Holes:** A=42mm **Desc/Notes:** INERTIA;DD (DIRECT DRIVE). BODY MOUNT **Vehicle Apps:** . FORD BANTAM, ESCORT AND CORTINA	**AOPEC:** A012302703 **Replacing:** SS703, 76415, 76417, 76425, 76426

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	Manuf/Sys: **LUCAS** Volts: 12V **Mounting Holes:** A=30.5mm, B=43mm, C=30.5mm **Desc/Notes:** 6M14. DD (DIRECT DRIVE). **Vehicle Apps:** . FIAT AGRICULTURAL. TATA	**AOPEC:** A012302715 **Replacing:** 26964022A, 265115104902
	Manuf/Sys: **LUCAS** Volts: 12V **Mounting Holes:** A=67mm **Desc/Notes:** 3M100;2M100. DD (DIRECT DRIVE). **Vehicle Apps:** . CHEVROLET. FORD V6. LAND ROVER. MAZDA. ROVER	**AOPEC:** A015615004 **Replacing:** 96403, 96405, 66964105
	Manuf/Sys: **LUCAS** Volts: 12V **Mounting Holes:** A=52.4mm **Desc/Notes:** 9M90. DD (DIRECT DRIVE). **Vehicle Apps:** . FORD. NISSAN. OPEL. RANGE ROVER. RENAULT. TOYOTA	**AOPEC:** A012302760 **Replacing:** 66964109, 66964032, 66964035
	Manuf/Sys: **LUCAS** Volts: 12V **Mounting Holes:** A=40mm **Desc/Notes:** M45G. DD (DIRECT DRIVE). **Vehicle Apps:** . ADE. CASE. FORD TRACTORS. HYSTER. LAND ROVER. MASSEY FERGUSON. PERKINS	**AOPEC:** A012302750, A012302758 **Replacing:** 76796, 76908, 76755, TOB162, TOB113
	Manuf/Sys: **LUCAS** Volts: 12V **Mounting Holes:** A=67mm **Desc/Notes:** M50G. DD (DIRECT DRIVE). **Vehicle Apps:** . ADE. KHD. MAGIRUS-DEUTZ	**AOPEC:** A012302753 **Replacing:** 66964044, 76901, 77054A
	Manuf/Sys: **LUCAS** Volts: 12V **Mounting Holes:** A=39mm **Desc/Notes:** M127;M50. DD (DIRECT DRIVE). **Vehicle Apps:** . ADE. CASE. FORD CARGO, TRACTOR. HYSTER. MASSEY FERGUSON. NEW HOLLAND. PERKINS	**AOPEC:** A012302754B **Replacing:** 60933111, 66925090S, 77131, 77132, TPB111
	Manuf/Sys: **LUCAS** Volts: 12V **Mounting Holes:** A=66.8mm **Desc/Notes:** 2M113;M45G. DD (DIRECT DRIVE). **Vehicle Apps:** . ADE. BELL. CASE. FORD TRACTORS. HYSTER. MASSEY FERGUSON. PERKINS	**AOPEC:** A012302756 **Replacing:** 66964045

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	Manuf/Sys: **LUCAS (TVS) - INDIA** Volts: 24V **Mounting Holes:** A=66.6mm **Desc/Notes:** 7M14. DD (DIRECT DRIVE). **Vehicle Apps:** . TATA 1518	**AOPEC:** A012302717 **Replacing:** 26240792
	Manuf/Sys: **MAGNETI-MARELLI** Volts: 12V **Mounting Holes:** A=40mm, B=40mm, C=40mm **Desc/Notes:** DD (DIRECT DRIVE). **Vehicle Apps:** . ALFA ROMEO. FIAT TRACTOR. IVECO. NEW HOLLAND. RENAULT	**AOPEC:** A010002735 **Replacing:** 63633801, 63633825, 79036683, 7980335, 669302
	Manuf/Sys: **MAGNETI-MARELLI** Volts: 12V **Mounting Holes:** A=34.5mm, B=34.5mm, C=34.5mm **Desc/Notes:** PLGR (PLANETARY GEAR REDUCTION). **Vehicle Apps:** . FIAT. JCB. MASSEY FERGUSON. PERKINS	**AOPEC:** A010002718 **Replacing:** 63602109, 63602404, 63602502
	Manuf/Sys: **MITSUBISHI** Volts: 12V **Mounting Holes:** A=37mm **Desc/Notes:** PLGR (PLANETARY GEAR REDUCTION). **Vehicle Apps:** . FORD. KUBOTA. MAZDA. MITSUBISHI. NISSAN. SUBARU. SUZUKI	**AOPEC:** A550002708 **Replacing:** M371X60171, M371X62871, M371X62271, MD607889, M371X60371
	Manuf/Sys: **MITSUBISHI** Volts: 12V **Mounting Holes:** A=27mm, B=27mm, C=27mm, D=27mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . MAZDA. MITSUBISHI	**AOPEC:** A010002743 **Replacing:** MD034120, MD607549, M371X50671, 23343R9000, MD607547
	Manuf/Sys: **MITSUBISHI** Volts: 12V **Mounting Holes:** A=84.5mm **Desc/Notes:** 39MT. PLGR (PLANETARY GEAR REDUCTION). WITH LEAD **Vehicle Apps:** . CATERPILLAR. CUMMINS. FREIGHTLINER. VOLVO	**AOPEC:** A011102726 **Replacing:** 10511408, 10511807
	Manuf/Sys: **MITSUBISHI** Volts: 24V **Mounting Holes:** A=85mm **Desc/Notes:** 39MT. PLGR (PLANETARY GEAR REDUCTION). WITH LEAD **Vehicle Apps:** . CATERPILLAR. CUMMINS	**AOPEC:** A011002701, A011102725 **Replacing:** 10511409, 10511799

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	Manuf/Sys: **MITSUBISHI** Volts: 24V **Mounting Holes:** A=38mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . CATERPILLAR EXCAVATOR. MITSUBISHI CANTER, FORKLIFT. NISSAN CABALL, CABSTAR	**AOPEC:** A011902702, A012502701 **Replacing:** M372X10171, M372X10371, ME700119, ME700316, M372X10271
	Manuf/Sys: **MITSUBISHI** Volts: 24V **Mounting Holes:** A=48.5mm **Desc/Notes:** PLGR (PLANETARY GEAR REDUCTION). M9T STARTERS TYPE **Vehicle Apps:** . VARIOUS APPLICATIONS	**AOPEC:** A012502711 **Replacing:**
	Manuf/Sys: **MITSUBISHI** Volts: 24V **Mounting Holes:** A=36mm, B=36mm, C=36mm, D=36mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . VARIOUS TRUCK AND INDUSTRIAL APPLICATIONS	**AOPEC:** A011002702, A012502705, A012502707 **Replacing:** M373X04571, ME700174
	Manuf/Sys: **NIKKO** Volts: 24V **Mounting Holes:** A=72.2mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . KOMATSU	**AOPEC:** A012902709B **Replacing:** 0471003510, 2334399207
	Manuf/Sys: **NIKKO** Volts: 24V **Mounting Holes:** A=70mm, B=70mm, C=70mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . FURUKAWA. ISUZU SBR. KOMATSU. MITSUBISHI. SUMITOMO. TCM FORKLIFT. TOYOTA DA110/DA6000/DA116	**AOPEC:** A012902708B **Replacing:** 1811510470, 0471002690, 1811510300, 1811510080, 0471003040
	Manuf/Sys: **NIKKO** Volts: 24V **Mounting Holes:** A=68mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . FURUKAWA. ISUZU JCR, SBR, SCR. KOMATSU. MITSUBISHI. TCM FORKLIFT. TOYOTA DA110, DA6000, FORKLIFTS	**AOPEC:** A012902722B **Replacing:** 5811510360, 0471003110, 0471003100, 2334399211, 5-81151-036-0
	Manuf/Sys: **NIKKO** Volts: 24V **Mounting Holes:** A=80.5mm, B=80.5mm, C=80.5mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . CATERPILLAR. CUMMINS. HITACHI. KENWORTH. KOMATSU	**AOPEC:** A012902710B, A01292710B **Replacing:** 0471003420, ZZ0011607, KD0471003420

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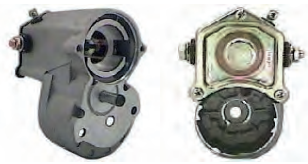
	Manuf/Sys: **NIPPON DENSO** Volts: 12V **Mounting Holes:** A=44mm **Desc/Notes:** DD (DIRECT DRIVE). **Vehicle Apps:** . FORD. MAZDA. ONAN. SUZUKI. TOYOTA	**AOPEC:** A012800301 **Replacing:** 2815015011, 2815015012, 2815015010, 2815087704, 492105602
	Manuf/Sys: **NIPPON DENSO** Volts: 12V **Mounting Holes:** A=60.5mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . TOYOTA HILUX 2.2L DIESEL, 2.4L DIESEL	**AOPEC:** A013402701 **Replacing:** 2815054070, 28150-54070
	Manuf/Sys: **NIPPON DENSO** Volts: 12V **Mounting Holes:** A=71mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . HYSTER FORKLIFTS. TOYOTA DYNA DIESEL, HIACE 2.2L DIESEL, 2.4L DIESEL, HILUX 2.2L DIESEL, 2.4L DIESEL, LAND CRUISER 2.4L DIESEL	**AOPEC:** A012802702 **Replacing:** 2815056040, 0534004720, 0534003080, 0534003081, ME2815054031
	Manuf/Sys: **NIPPON DENSO** Volts: 24V **Mounting Holes:** **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . ISUZU JCR, SBR. KOMATSU. TOYOTA DYNA	**AOPEC:** A012802703B **Replacing:** 2815077090, 0534004700, 0534003940, 28150-77090
	Manuf/Sys: **SAWAFUJI** Volts: 24V **Mounting Holes:** A=85mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . NISSAN TRUCKS	**AOPEC:** A013802704B **Replacing:** 135012100X9, 2330899007, SS2719
	Manuf/Sys: **SAWAFUJI** Volts: 24V **Mounting Holes:** A=85mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . NISSAN UD SERIES STARTERS. TOYOTA HINO	**AOPEC:** A010002741 **Replacing:** 281801260, 135010100X9, 135010100XA
	Manuf/Sys: **SAWAFUJI** Volts: 24V **Mounting Holes:** A=85mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . TOYOTA HINO	**AOPEC:** A013802708 **Replacing:** 281801240, 135009700X9

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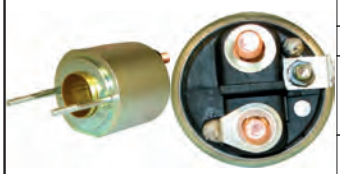
	Manuf/Sys: **SAWAFUJI** Volts: 24V **Mounting Holes:** A=74mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). FITS STARTER: 03555020050 **Vehicle Apps:** . TOYOTA HINO	**AOPEC:** A013802707, A013802708B **Replacing:**
	Manuf/Sys: **SAWAFUJI** Volts: 24V **Mounting Holes:** A=90.4mm **Desc/Notes:** OSGR (OFFSET - GEAR REDUCTION). **Vehicle Apps:** . KOMATSU	**AOPEC:** A013802701 **Replacing:** 135010911X9
	Manuf/Sys: **VALEO** Volts: 12V **Mounting Holes:** A=33mm, B=33mm, C=33mm **Desc/Notes:** D7R. PLGR (PLANETARY GEAR REDUCTION). **Vehicle Apps:** . JOHN DEERE	**AOPEC:** A010002730 **Replacing:** 594309, CED5022
	Manuf/Sys: **VALEO** Volts: 12V **Mounting Holes:** A=39mm **Desc/Notes:** D9E;D9E;D6RA;D7E. DD (DIRECT DRIVE). **Vehicle Apps:** . CITROEN. FIAT. PEUGEOT	**AOPEC:** A010002713 **Replacing:** 182464, 594155, CED518

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