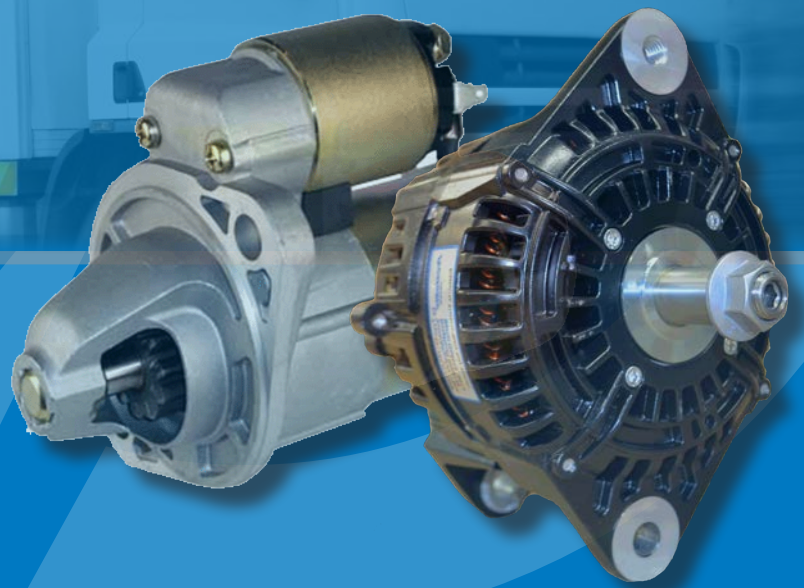


Prestolite *electric* **Leece·Neville**

Refrigeration Catalogue



Catalogue Frigorifique
Kühlgeräte Katalog
Catálogo Refrigeración
Catalogo Refrigerazione
Frigorifik Katalog

ديربتل جولاتك

Járműhűtés / Klíma Katalógus

Katalog wyrobów dla pojazdów chłodniczych

Каталог продукции для авторефрижераторов

2021

OUR COMPANY

Prestolite Electric is a global manufacturer and supplier of alternators, starters, auxiliary electrical equipment and services to the transportation, industrial and military industry. Prestolite has a strong heritage dating back to 1911, and includes the Leece-Neville, Motorola, Butec and Lucas CAV brands, resulting in a long history of engineering excellence and innovative products.

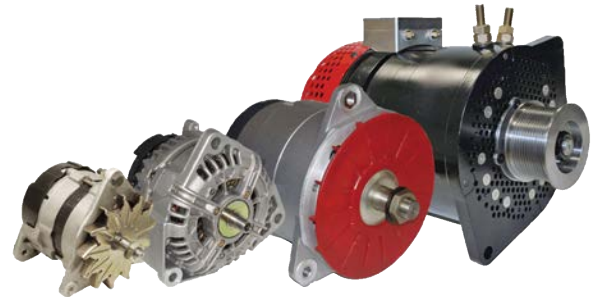


OUR BRANDS

With manufacturing and distribution locations in the United States, United Kingdom, Brazil, China, Canada, India, Mexico, Russia and Hong Kong; **Prestolite Electric** provides customers with access to their application needs for products and services under the **Prestolite Electric** and **Leece-Neville** brand names.

OUR PRODUCTS

In Europe **Prestolite** supply to more than 40 OEMs, in USA we are the dominant supplier to the Bus, truck, refrigeration and military markets, and in China **Prestolite** is the number one supplier to the domestic bus and coach industry, supplying over 700k units a year.



OUR UNIQUE OFFER

Remember that the vast majority of a range comes to you **BRAND NEW**. Of course this offers you OE quality levels, no availability problems due to core shortages but also the advantage of **NO CORE SURCHARGES!** How many times have you sold an alternator or starter only to have your profit wiped out because your supplier won't accept your core? With Prestolite you can simply sell and forget.

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How to use this Catalogue

SECTION A

This section gives a basic understanding of the operation of the Alternator and Starter Motor within the Refrigeration environment, and includes Alternator and Starter Motor function, general wiring diagrams and a Troubleshooting guide. If you have any queries that are not covered by this guide, please contact the Technical Helpline on +44 (0)1772 461776.

PART NUMBER	VOLTAGE	AMP	EARTH / INSULATED RETURN	SHAFT DIA	BATTERY-LESS	ROTATION	PULLEY INFO	APPLICATION	REFERENCES *
8LHA3040UC	28V	120A	IR	7/8"	Y	REV	No Pulley	ZHONGTONG BUS	W4005030308 8LHA3040UC03, 8LHA3040UC05, 8LHA3040UC13, 8LHA3040UC19, 8LHA3040UC22, 8LHA3040UC34, 8LHA3040UC45, 8LHA3040UC54

Regulator: 8RG3082-ZU

PART NUMBER	VOLTAGE	RATING	EARTH / INSULATED RETURN	ROTATION	TEETH	DIAMETER	PINION AT REST	MOUNTING HOLES SIZE	APPLICATION	REFERENCES *
MH1207	12V	2.0kW	ER	CW	9 (th)	35.2 (Ø)	22 (PAR)	35 (ENG)	THERMOKING	20451688, 20452323 S13207, S13207A, S13207C 20513057 451688, 452323, 461688, 8451688, 8452323, 10451688, 20451688 12648677010, 12648677011, 12948677010, 12948677011

How to use this Catalogue

Alternative manufacturer
/ supplier

Prestolite
Part no.

Alternative manufacturer
/ supplier Part no.

REFRIGERATION CROSS-REFERENCE GUIDE

Leece·Neville

Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
BOSCH		30-00349-01	110-683	128000-2881	20513585	110-639	110-639RM
0120484028	20140111	30-00349-01	110-683	128000-4900	20513588	110-679	110-612RM
0120488297	66021606	30-00363-00	110-683	228000-0990	20513059	310-65	110-159
9120060023	66021606	30-00363-00140954	110-683	228000-0991	20513059	8AR2018L	110-683
9120060026	66021606	30-00363-00R	110-683	228000-1060	20513588	8AR2069F	110-629

Glossary of Alternator Terms

Earth return (ER) alternators may only be fitted with a B+ (battery positive) terminal. The negative part of the electrical circuit is normally completed through the body of alternator to the vehicle, ie earthed / grounded. Also referred to as ground return. On certain vehicles a B- stud is fitted to the alternator. This is connected to the body of the alternator and must be connected to the negative earth lead where fitted.

Insulated return (IR) alternator have B+ (battery positive) and B- (battery negative) terminals, ie the battery leads at the alternator are insulated from the alternator frame, ie insulated return.

B+ terminal is the battery positive connection on the alternator.

B- terminal is the battery negative terminal on the alternator.

WL is the warning lamp terminal. (**L** when smartreg is used.)

W or **~** or **AC** is the phase terminal, used for tachometer

EXC terminal is used to provide initial start-up excitation current. This is connected to battery positive via ignition / switch.

F2 terminal is for exclusive use on Thermoking systems only and fitted Thermoking controller systems.

S is the sense lead / terminal. This is normally used where the voltage drop across battery leads are expected to be significant, ie long battery cable runs, where multiple battery banks and load splitters are used. This terminal monitors the voltage at the point of termination not the alternator terminals, and regulate alternator performance accordingly. This terminal is normally connected directly to the positive terminal of the charging system battery.

Batteryless alternators are used to operate fixed load equipment, eg air-conditioning. The batteryless alternator does not operate in or as part of the charging system. See wiring diagram section.
(This type of alternator is not designed to cope with the high demand of flat batteries)

Alternator rotation. External fan alternator rotation is determined by the fan design. By design the alternator is bi-directional and can operate in either CW or CCW direction. Straight vane fans are bi-directional, see fig.1. Curved vane fans are direction specific, and a rotation direction is indicated on the fan, see fig.2. Directional fan design generally provide more efficient cooling of alternator.

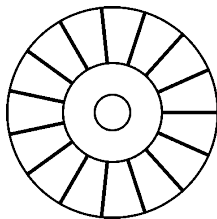


Fig.1

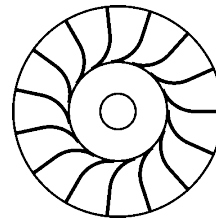


Fig.2

Internal fan alternators are rotation specific, normally CW. Consult the drawing or Technical Helpline for specific part number rotational direction.

Note: Directional rotation when looking at front of the alternator.

Glossary of Alternator Terms continued...

Mounting configurations. Various options are available, see fig.3 - fig.6

Dual foot mount on main mounting bracket, and single mounting on adjusted bracket.

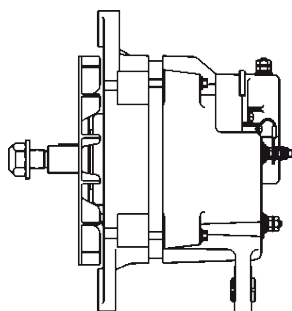


Fig.3

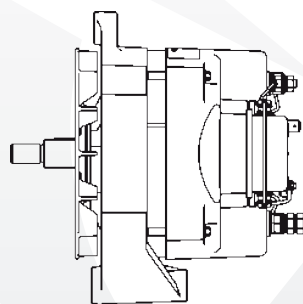


Fig.4

Spool mount on main mounting bracket, spool size from 25mm - 80 mm and single mounting on adjuster bracket.

Pad mount

4 Mounting point as shown.

T-mount is similar to pad mount, but with only 3 mounting point. (2 on drive end and 1 on rear end)

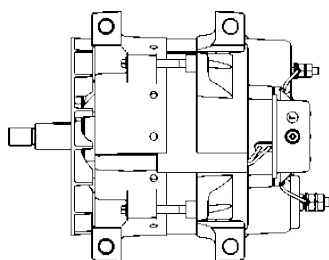


Fig.5

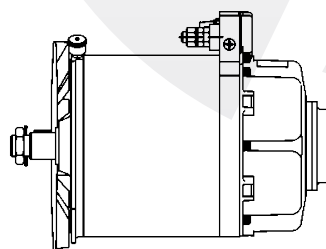


Fig.6

Cradle mount

The alternator is mounted by clamping it around the alternator body.

Alternator Wiring Diagrams

The wiring diagrams shown below are typical and for reference only. For specific wiring diagrams or information, please contact the Technical Helpline.

EARTH RETURN

The negative circuit is supplied through the vehicle chassis and the alternator frame.

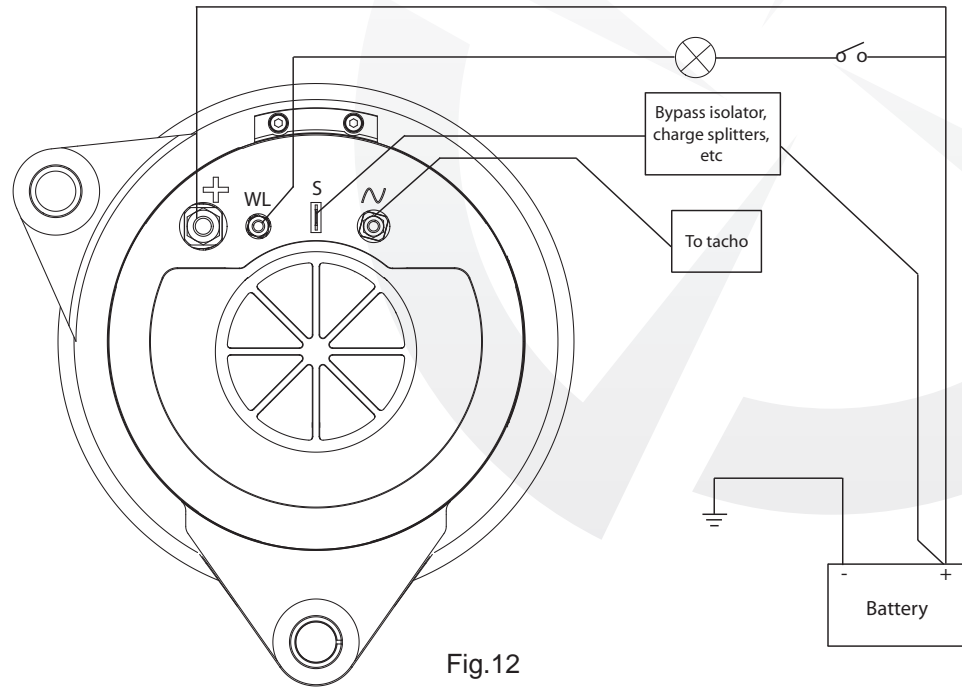


Fig.12

INSULATED RETURN

The negative circuit is isolated from alternator frame and vehicle chassis.

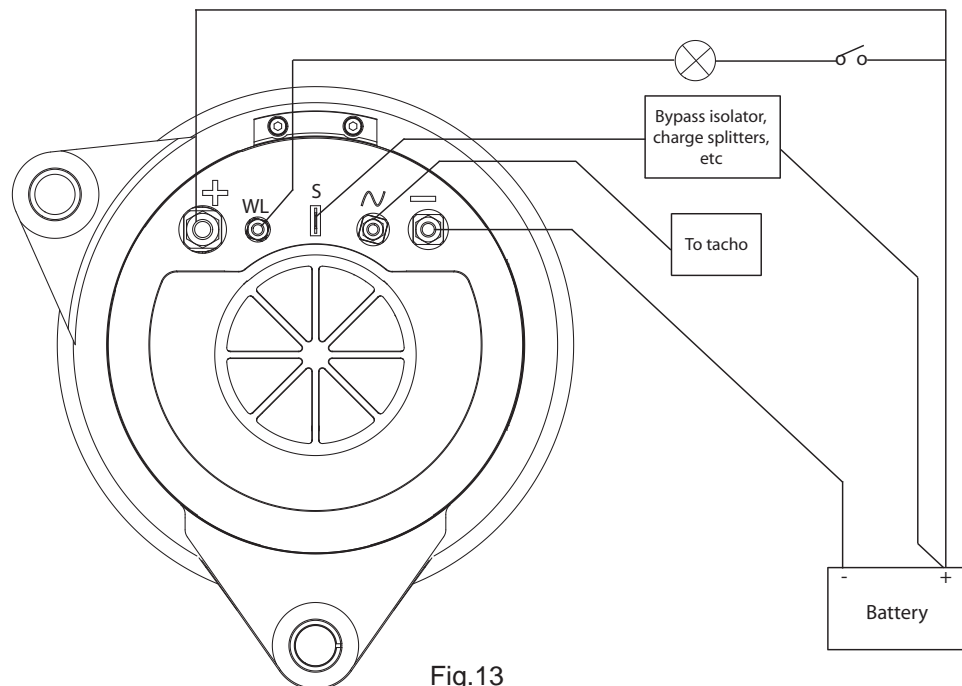
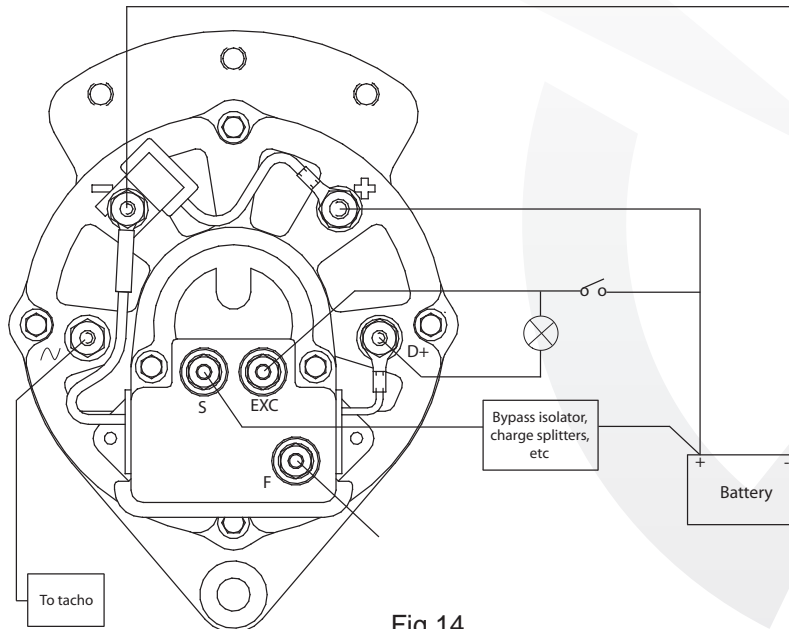


Fig.13

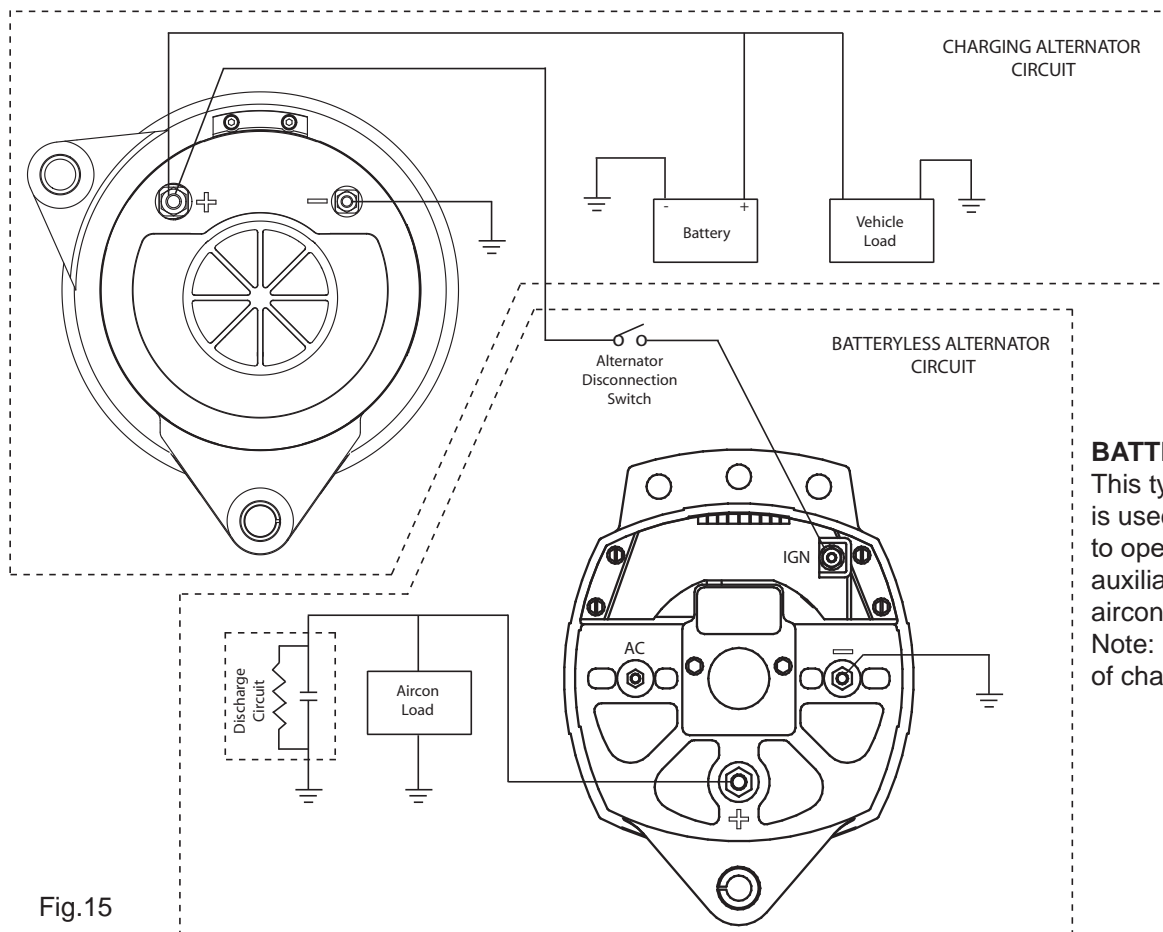
Alternator Wiring Diagrams continued...



FIELD CONNECTION

Thermoking applications only.
The F terminal is connected to Thermoking controller.

Fig.14



BATTERYLESS

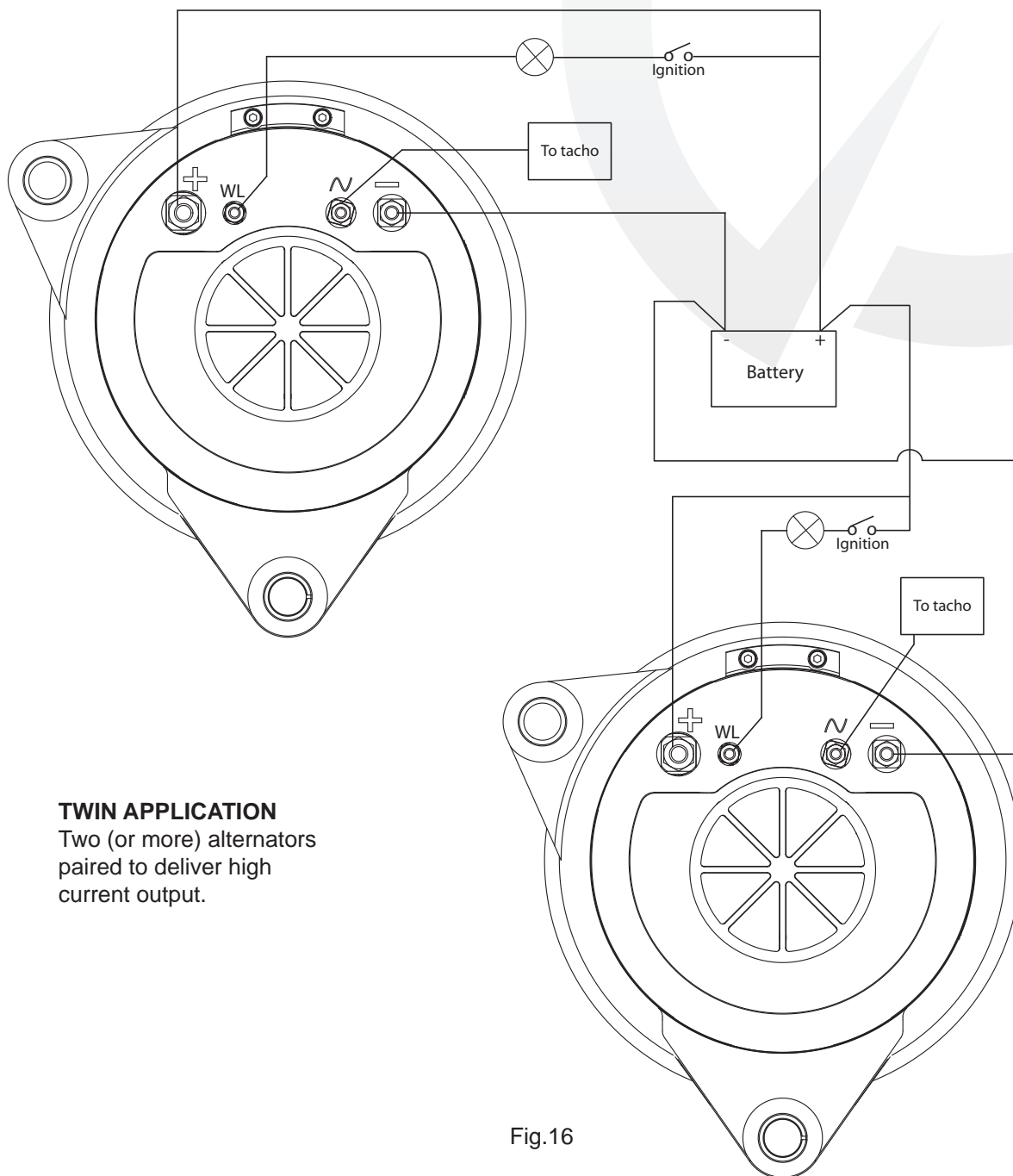
This type of alternator is used to supply power to operate fixed load auxiliary systems, eg. airconditioning.
Note: Not for use as part of charging system .

Fig.15

Alternator Wiring Diagrams

continued...

Multiple applications are common placed where high current demand is required, typically on coaches. It is important that the regulated voltage of the alternators used are matched. In addition it is also important that the length of cables for the two alternators be kept the same to ensure that the voltage drops in the lines are identical (or as close as possible). The voltage drops must not exceed 1.0V.



TWIN APPLICATION

Two (or more) alternators paired to deliver high current output.

Fig.16

Alternator Function

The alternator essentially consists of 3 components; the rotor / stator assy, the rectifier and the regulator.

The rotor and stator assembly utilised basic physics to generate electricity by rotating an electromagnetic field (rotor) within a series of windings (stator). This produces a 3 phase alternating current (AC) output from the stator.

The AC output is not suitable for DC system. The rectifier utilised a series of diodes to convert the original AC output to a direct current (DC) output, which is supplied to the vehicle loads and batteries.

The regulator controls the output of the alternator by increasing and decreasing the magnetic field of the rotor as required.

The alternator must be able to supply current to all required loads and have sufficient capacity to charge the vehicle batteries.

Most vehicles have some kind of warning light function that indicates when the alternator is not functioning as expected. This warning light will be illuminated when the ignition is switched on, but engine not started. Once the engine has been started and is idling the warning light go out. This warning light circuit normally also serves as an excitation for the alternator, supplying approx 2.0-2.8W. On these alternators it will not charge if the warning light is not connected.

Some alternators have a separate EXC terminal (which must be connected), in which case the WL is an electronic switch, and is an optional feature.

For alternator wiring details refer to Fig.12 - to Fig.16. These illustrations are for reference only, please contact the Technical Helpline for specific wiring information.

Alternator Troubleshooting Guide

Problem	Possible cause	Action
No warning light when switched on	Flat battery	Check battery, charge in accordance with battery manufacturer's specification if required.
	Blown warning light bulb or fuse	Check warning light bulb or fuse.
	Poor / incorrect connections	Check wiring and connections.
Warning light does not go out when engine idling	Poor / incorrect connections	Check wiring and connections.
	Warning light shorted to earth	Check wiring and connections.
	Excessive voltage drop in ignition circuit	Check wiring and connections.
	Faulty rectifier	Check rectifier circuit and diodes.
	Faulty regulator or alternator	Remove and test regulator and alternator.
Low output	Slipping drive	Check Pulley, belts or coupling.
	Faulty regulator or alternator	Remove and test regulator and alternator.
Flickering warning light	Slipping drive	Check Pulley, belts or coupling.
	Volt drop in sensing line	Check wiring and connections.
	Faulty regulator or alternator	Remove and test regulator and alternator.
Battery overcharging, high alternator output voltage	Faulty regulator	Remove and test regulator.

Glossary of Starter Motor Terms

Earth return (ER) starter motors will only be fitted with a B+ (battery positive) terminal. The negative part of the electrical circuit is completed through the body of starter motor and the vehicle chassis.

Insulated return (IR) starter motors have B+ (battery positive) and B- (battery negative) terminals, ie the battery leads at the alternator are insulated from the vehicle chassis.

B- terminal is the battery negative terminal on the alternator or starter motor.

B+ / Terminal 30 is the battery positive connection terminal on starter motor, normally found on solenoid.

SW / Terminal 50 is the positive feed connection to the solenoid.

Terminal 15a is a cold start terminal.

Rotation is generally in a clockwise (CW) direction, when looking at the front of the starter motor, however there are counter clockwise CCW applications.

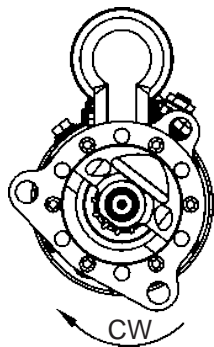


Fig.7

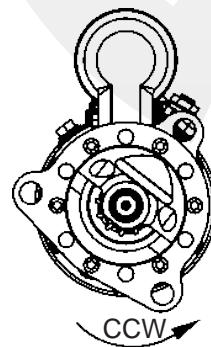


Fig.8

Pinion at rest (PAR) position is the measured distance between the mounting flange and the front face of pinion when the starter is not energised. (See Fig. 9)

Pinion full travel position is the measured distance between the mounting flange and the front face of the pinion when the starter motor is energised. (See Fig.9)

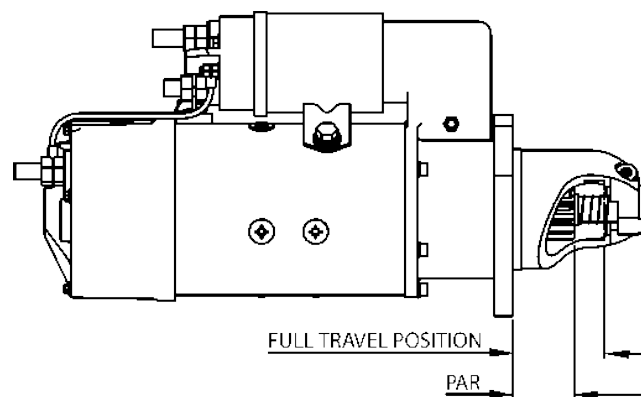


Fig.9

Glossary of Starter Motor Terms continued...

Solenoid / Switch is the part of the starter that activates the engagement / disengagement of the pinion/drive to the vehicle ringgear/flywheel, and also connects the battery to the motor via contact switch.

Mounting configurations. Several options are available, the most common are SAE1 and SAE3. See fig. 10 - fig.12.

SAE1

The 3 mounting holes are on a PCD of 127mm, spaced at 90°

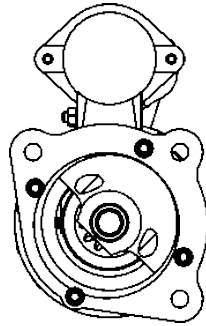


Fig.10

SAE3

The 3 mounting holes are on a PCD of 146mm, equi-spaced at 120°

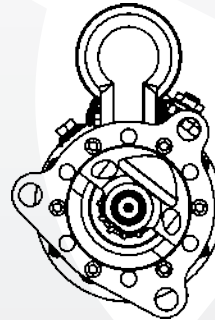


Fig.11

Starter drive is the mechanism linking the starter rotational force and the vehicle engine, via ring gear/flywheel. This incorporates an overrun device to protect the motor in the event that the starter is not released when the engine has started.

The pinion is the geared component on the drive that interfaces with the ring gear / flywheel.

Starter Motor Wiring Diagrams

The wiring diagrams shown below are typical and for reference only. For specific wiring diagrams or information, please contact the Technical Helpline.

The fitment of a Starter Lockout unit is recommended to prevent energising of starter motor whilst engine is running.

EARTH RETURN

The negative circuit is supplied through the vehicle chassis and the starter motor frame.

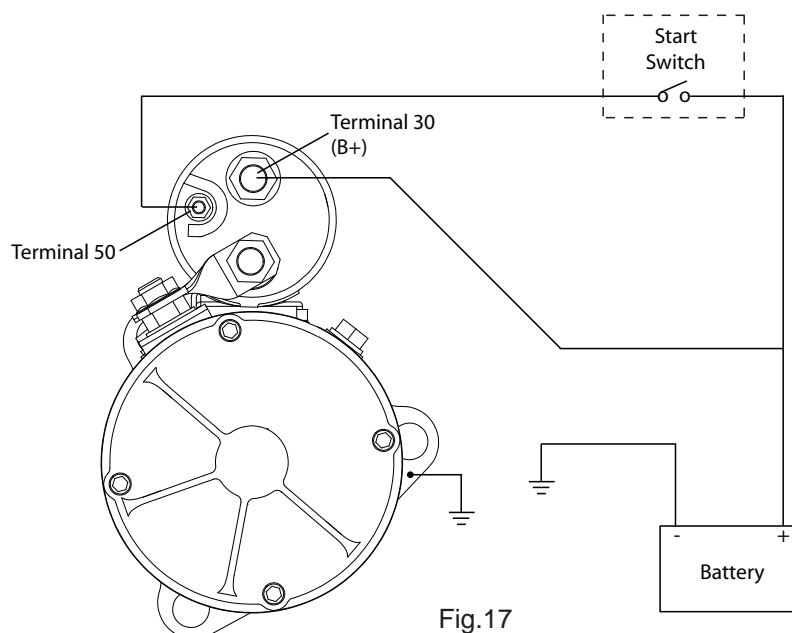


Fig.17

Starter Motor Wiring Diagrams

continued...

INSULATED RETURN

The negative circuit is isolated from starter motor frame and vehicle chassis.

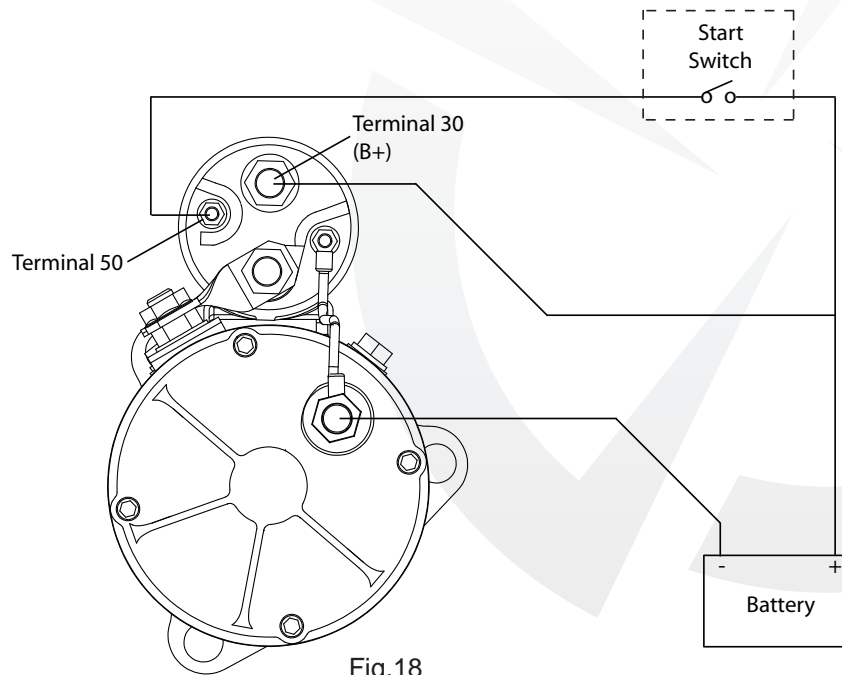


Fig.18

AUXILIARY SOLENOID

Used on gear reduction starters due to high current in solenoid.

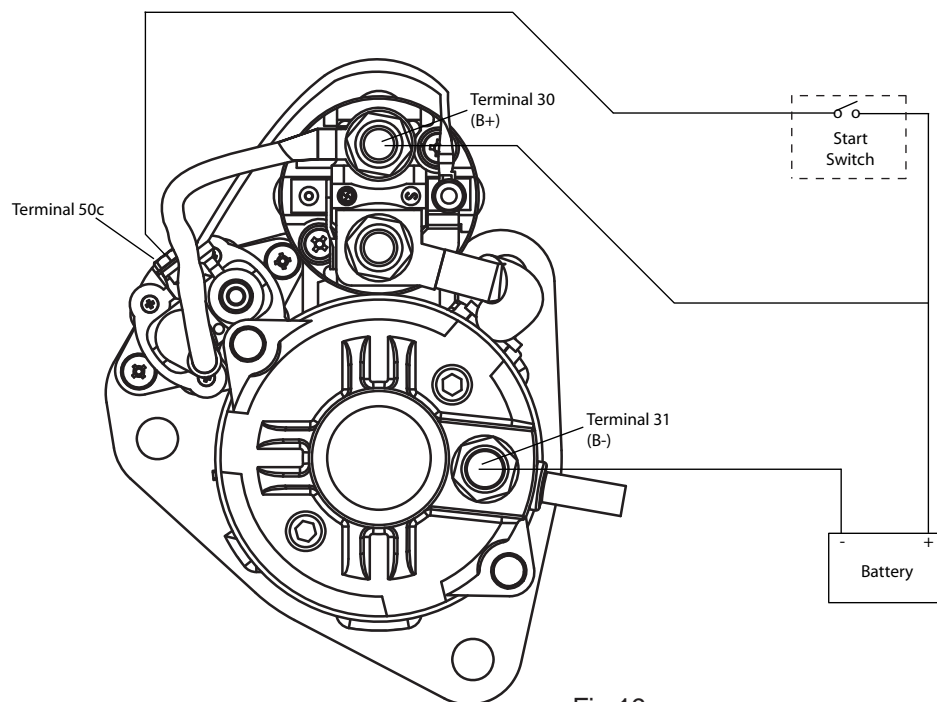


Fig.19

Starter motor Function

The basic components of the starter motor is the solenoid (switch), the motor, the shift assembly and the drive assembly.

When the circuit is energised, via the start button, the solenoid is activated into 1st stage contact, which engages the linkage system in the shift assembly and in turn moves the drive towards the ringgear. At this point a small current will flow through the motor causing a slow rotation of the motor and drive, this is to allow for the pinion to engage the ring-gear correctly.

Once the pinion has engaged the ringgear, the solenoid 2nd contact will be activated and full current will be supplied to the motor, causing the motor to rotate at full speed and torque, cranking the engine via the drive and ringgear.

Once the engine has started and the engine speed is higher than that of the starter motor the overrunning protection function of the drive will prevent the engine accelerating the starter motor. As soon as the engine has started the driver / operator should release the starter button.

Please note that the over-run clutch protection function will be damaged by wreckless & prolonged over-cranking.

Gear-reduction starter motors are becoming increasingly popular due to compact design. These starters operate in the same manner, but is fitted with a small gearbox between the motor and the shift / drive assembly.

For starter motor wiring details refer to Fig.17, Fig.18 and Fig.19. These illustrations are for reference only, please contact the Technical Helpline for specific wiring information.


Starter motor Troubleshooting Guide


Problem	Possible cause	Action
Starter does not engage	Flat battery	Check battery, charge in accordance with battery manufacturer's specification if required.
	Poor / incorrect connections	Check wiring and connections.
	Faulty ignition or start button	Check battery voltage is available at the starter motor solenoid terminals when ignition / button operated.
	Faulty solenoid / auxiliary solenoid	Test operation of the solenoid / auxiliary solenoid.
	Faulty starter	Remove and rectify.
Starter engages but does not crank the engine	Flat battery	Check battery, charge in accordance with battery manufacturer's specification if required.
	Poor / incorrect connections	Check wiring and connections.
	Excessive volt drop in main cables	Check voltage drop by measuring voltage between starter terminals and battery terminals. Also, check earth circuit when ignition / button is operated.
	Incorrect starter timing	Remove and rectify.
	Faulty starter	Remove and rectify.
Starter engages but cranks slowly	Flat battery	Check battery, charge in accordance with battery manufacturer's specification if required.
	Poor / incorrect connections	Check wiring and connections.
	Excessive volt drop in main cables	Check voltage drop by measuring voltage between starter terminals and battery terminals. Also, check earth circuit when ignition / button is operated.
	Faulty solenoid	Remove and replace.
	Faulty starter	Remove and rectify.
Starter spins against flywheel	Spacer or mounting flange unnecessary	Check if spacer is required and discard if unnecessary
	Incorrect starter timing	Remove and rectify.
	Faulty starter	Remove and rectify.





PART NUMBER	VOLTAGE	AMP	EARTH/ INSULATED RETURN	SHAFT DIA	BATTERY- LESS	ROTATION	PULLEY INFO	APPLICATION	REFERENCES *
20140111	14V	120A	IR	17mm	N	CW	No Pulley	APPLICATION	REFERENCES *
								THERMOKING	0120484028, AL9120N, F005A00020 93082 412571, 415456, 416782, 452258, 452591, 8418465, 1E32217G01, 1E51762G01, 5D50461G01 90156384 whilst stocks last, then use AK1120
66021606	14V	70A	IR	17mm	N	REV	No Pulley	APPLICATION	REFERENCES *
 <p>For 90A, use AK1090</p>								THERMOKING	0120488296, 0120488297, 9120060023, 9120060026, 9120060027, 9120060028, 20415457, 20449571, 20449572, 295034000, 93070, 93095, 19020507, 19020508, 61013382, LRA02557, LRA2557, 42367, 415457, 415458, 416780, 416781, 418461, 419856, 448949, 448950, 449562, 449570, 449571, 449572, 452254, 452256, 452257, 452325, 452498, 452589, 452590, 452592, 452595, 452597, 8415457, 8415458, 8418461, 8418463, 8449571, 8449572, 8452325, 8452597, 10415458, 16084103, 10415458B, 1E32215G01, 1E51760G01, 1E51761G01, 5D33839G01, 5D33841G01, 5D38603G01, 5D38604G01
8AR2018L	14V	65A	ER	5/8"	N	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 9RC2066</p>								CARRIER TRANSICOLD	3050307, 300034901, 300036300, 300036301, 300036304, 305030700, 300036300140954, 300036300R, 300036300RM 3675141R, 3675141RX 8EL730147001, UA9311R 8EA2018, 8EA2018N, 8EA2018NA, 8EM2012, 8EM2012NA, 110-140, 110-383, 110-406, 110-683, 8AL2024L 90059116, 90059147
8AR2169F	14V	37A	ER	5/8"	N	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 9RC2066</p>								CARRIER TRANSICOLD	3000306, 3000351, 3050005, 30030600, 300030600, 300030602, 300030603, 300030604, 300030605, 305000900, 66U12233, TA61500001, 3675139RX, 3675140RX, 235085, 9609165, 23570335, 8V23508509, 110408, MG9609165, 101, 1086, 1101, 10112, 10214, 10273, 10289, 8AL2019F, 8AR2069F, 8AR2073F, A12N451, RA12N451D, RA12N453, 235175, 09609165, 9609165, 11054, 110112, 110155, 110161, 110241, 110261, 110262, 110273, 110329, 110333, 110342, 110415, 110470, 110629, 8AR2018F, 8AR2022F, 8AR2024F, 8AR2033F, 8AR2037F, 8AR2041F, 8AR2050F, 8AR2060F, 8AR2066F, 8AR2160F, 8AR2169F, 8EA2001F 8EA2001FA, 8EA2004F, 8EM2001FA, 8EM2001FAS ALK7321
8LHA2070VF	14V	160A	IR	7/8"	N	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RG2138S</p>								THERMOKING	4489, 448996, 3D97252G01 110-229, 110-250, 110-255, 110-555, 110-555HD, 110-555JHO, 8LHA2022R, 8LHA2023, 8LHA2023V, 8LHA2070, 8LHA2070V, 8LHA2070VB, 8LHA2070VBF, 8LHA2070VE, 8SA2017R, 8SA2022R, RM110250

Alternators

PART NUMBER	VOLTAGE	AMP	EARTH/ INSULATED RETURN	SHAFT DIA	BATTERY- LESS	ROTATION	PULLEY INFO	APPLICATION	REFERENCES *
8LHA3040UC	28V	120A	IR	7/8"	Y	REV	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RG3082-ZU</p>								ZHONGTONG BUS	W4005030308 8LHA3040UC03, 8LHA3040UC05, 8LHA3040UC13, 8LHA3040UC19, 8LHA3040UC22, 8LHA3040UC34, 8LHA3040UC45, 8LHA3040UC54, 8LHA3040UCE15, 8LHA3040VC30
8LHA3099UC	24V	115A	IR	7/8"	Y	CW	No Pulley	APPLICATION	REFERENCES *
								ZHONGTONG BUS	W4005030310
8MA2019KA	14V	51A	IR	5/8"	N	REV	No Pulley	APPLICATION	REFERENCES *
 <p>No fan supplied. Regulator: external</p>								CARRIER TRANSICOLD	110-299, 110-527, 8MA2019K
8MR2013L	14V	65A	IR	5/8"	N	REV	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RG2062S</p>								CARRIER	3000423, 300036303, 300042300 110-385, 110-390, 110-476, 110-487 8EA2013N, 8EA2013NA, 8EM2013N, 8EM2013NA, 8MR2013L
8MR2175F	14V	37A	IR	5/8"	N	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RG2060AS</p>								THERMOKING	4121, 8447, 412195, 412197, 412198, 412199, 447154, 447155, 47376, 447924, 447925, 447926, 448091, 448535, 448901, 448902, 448903, 448904, 448939, 448940, 449750, 449751, 449752, 449753, 449754, 449755, 4489750, 4489751, 4489754, 8447925, 2D72786G01, 2D27278603, 2D72785G01, 2D72786G01, 2D72786G02, 2D72786G03, 3D97385G01, 3D97386G01, 3D97386G018447, 3D97386G02, 3D97386G03, 3D97387G01, 4116D22G03, 5D35740G01, 5D35741G01, 5D35741G014497, 5D35741G02, 5D35741G024497, 5D35741G03, 5D35741G04, 5D35741G044497, 5D35742G01, 5D35742G02, 5D35742G03, 5D44466G01, 5D44466G02, 5D44466G03, 5D44466G034121, 110-399, 110-699, 8EK2008F, 8EK2008FA, 8EK2008FB, 8EK2008FC, 8EK2008FD, 8EK2009FA, 8EK2009FB, 8EK2009FC






PART NUMBER	VOLTAGE	AMP	EARTH/INSULATED RETURN	SHAFT DIA	BATTERY-LESS	ROTATION	PULLEY INFO	APPLICATION	REFERENCES *
8MR2185L	14V	65A	IR	5/8"	N	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RG2060AS</p>								THERMOKING	4122, 4497, 8447, 412200, 412201, 447156, 447927, 448904, 448940, 449753, 8447927, 2D72777G01, 2D72786G02, 2D72787G01, 2D72787G02, 3D97387G01, 3D97387G018447, 3D97387G02, 5D35742G01, 5D35742G014497, 5D35742G02, 5D35742G03, 5D35742G034497, 5D44467G01, 5D44467G02, 5D44467G024122 110-400, 110-600, 8EK2005NA, 8EK2005NB, 8EK2005NC, 8EK2005ND, 8EK2007N, 8EK2007NA, 8EK2007NB, 8EK2007NC, 8EK2007ND, 8EK2010NA, 8EK2010NB, 8EK2010NC, 8EK2010ND, 8EK2012NA, 8EK2012NB, 8MR2346
8MR2215D	14V	23A	IR	5/8"	N	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RG2060AS</p>								THERMOKING	412194, 5D44463G01, 5D44467G01 110-581
8MR2329L	14V	65A	IR	17mm	N	REV	No Pulley	APPLICATION	REFERENCES *
 <p>No fan supplied. Regulator: 8RG2064S</p>								CARRIER TRANSICOLD	LRA00137, LRA00841, LRA01044, LRA1044, LRA137, LRA841 4222697, 63302900, 63303100, 63303130, 63303140, 63303150, 63303191, 63303280, 63304800, 63304830, A12M1241242X 110-611, 110-611RM, 8MR2123L 4222697, 63302900, 63303100, 63303130, 63303140, 63303150, 63303191, 63303280, 63304800, 63304830, A12M1241242X
8MR2345	14V	37A	IR	5/8"	N	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RG2060AS</p>								THERMOKING	412198, 5D44466G01 110-635, 110-635RM, 8EK2006FA, 8EK2006FB, 8EK2006FC, 8EK2170F, 8MR2345 whilst stocks last, then obsolete.
8MR2348	14V	90A	IR	5/8"	N	REV	1V, 97mm	APPLICATION	REFERENCES *
 <p>Regulator: 8RG2060AS</p>								THERMOKING	412705, 451706, 5D51051G01 110-638, 110-638RM, 8MR2195TA


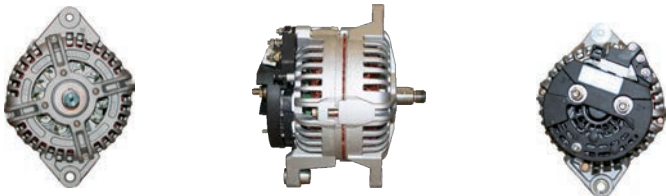



Alternators

PART NUMBER	VOLTAGE	AMP	EARTH/ INSULATED RETURN	SHAFT DIA	BATTERY- LESS	ROTATION	PULLEY INFO	APPLICATION	REFERENCES *
8MR2349	14V	90A	IR	5/8"	N	REV	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RG2060AS</p>								THERMOKING	5D46047G01 110-639, 110-639RM, 8MR2197T
8SC3019U	24V	100A	IR	7/8"	N	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RL3028S</p>								THERMOKING	5Z9133 444021 110-158, 110-183, 110-316, 8SC3002U, 8SC3003U
8SC3110VC	28V	150A	IR	7/8"	Y	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RG3082-ZU</p> <p style="text-align: right;">24V excite only</p>								ZHONGTONG BUS	F042308016, 37018000002 8SC3110VC09, 8SC3110VC111, 8SC3110VC117, 8SC3110VC118, 8SC3110VC120, 8SC3110VC120E, 8SC3110VC17, 8SC3110VC18, 8SC3110VC23, 8SC3110VC37, 8SC3110VC39, 8SC3110VC40, 8SC3110VC42, 8SC3110VC43, 8SC3110VC64, 8SC3110VC65, 8SC3110VC79, 8SC3110VC80, 8SC3110VC81S, 8SC3110VC83, 8SC3110VC91, 8SC3110VC94, 8SC3110VC98, 8SC3110VCH114, 8SC3150VC, 8SC3150VC30, 8SC3150VC30A, 8SC3150VC95, 8SC3151VCA49 8SC3151VCA59, 8SC3151VCA7, 8SC3151VCA77 8SC3151VCB7
8SC3200V	28V	150A	IR	7/8"	Y	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 8RL3145S</p> <p style="text-align: right;">12V or 24V excite</p>								THERMOKING	3632009 656639 4463, 4469, 413020, 446368, 446918, 3040103, 4125D55G01, 4125D55G014469, 4125D55G02, 4125D55G024463, 5D51321G01, 5D51939G01 110-306, 110-308, 110-568, 110-575, 110-576, 8SC3017V, 8SC3017VA, 8SC3018V, 8SC3018VA, 8SC3110V, 8SC3110VC, 8SC3112V, 8SC3127V, 8SC3207V
AC172RA307C	28.5V	140A	IR	30mm	Y	REV	No Pulley	APPLICATION	REFERENCES *
								HIGER BUS	37V0D01002



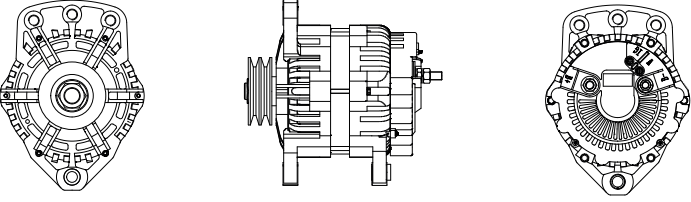
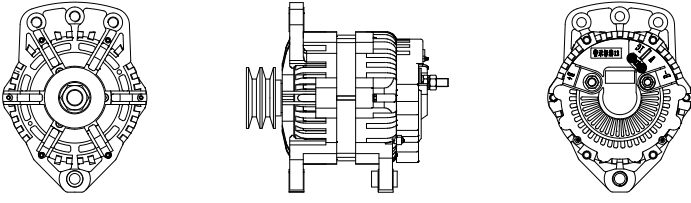
PART NUMBER	VOLTAGE	AMP	EARTH / INSULATED RETURN	SHAFT DIA	BATTERY-LESS	ROTA-TION	PULLEY INFO	APPLICATION	REFERENCES *
A0014743JB	28V	200A	ER	7/8"	Y	CW	No Pulley	APPLICATION	REFERENCES *
  			Regulator: R240105944S		12V or 24V excite		MOBILE CLIMATE CONTROL Y450000600 4743JB		
A1737B	14V	70A	ER	17mm	N	CCW	No Pulley	APPLICATION	REFERENCES *
  			Regulator: P00001		CARRIER 300040906, 300040910, 300040919, 300040960, 300040961, 300040962, 300040964, 300040965, 300042300, 300055600, 300055601, 300111403, 300111404, 300111405, 300111406, A1737A, A1737B, A1737F, JFZ1737B				
A1737C	14V	105A	ER	17mm	N	CCW	No Pulley	APPLICATION	REFERENCES *
  			Regulator: P00001		CARRIER 300040909, 300040911, 300040963, 300111400, 300111401, 300111402 4702602, 4702604, 4702605 JFZ1737C				
A1738B	14V	70A	ER	17mm	N	CCW	1V, 88.4mm	APPLICATION	REFERENCES *
  			Regulator: Not available		CARRIER VALEO 300111407, 300111427, 306005003, 306005004 436373, 439184, 439233, 439243, 2541477, 2541671, 2542276, 2542296, 4702615 JFZ1738B, 20140112				
A1738C	14V	105A	ER	17mm	N	CCW	1V, 88.4mm	APPLICATION	REFERENCES *
  			Regulator: Not available		CARRIER 300111414, 300111434, 300111436 (change pulley) 2614376 JFZ1738C				

Alternators

PART NUMBER	VOLTAGE	AMP	EARTH/ INSULATED RETURN	SHAFT DIA	BATTERY- LESS	ROTATION	PULLEY INFO	APPLICATION	REFERENCES *
A1739B	14V	70A	ER	16mm	N	CCW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: P00001</p>								CARRIER	30011500, 300040902, 300040904, 300040906, 300040907, 300040908, 300040910, 305040965, 300040907RM, 110-606, 110-646, 110-606RM, 8MR2316L, 8MR2326L, JFZ1739B
A1742B	14V	105A	ER	16mm	N	CCW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: P00001</p>								CARRIER	300040900, 300040903, 300040909, 300040911, 300115101, 300040903RM, 110-608, 110-643, 110-608RM, 8MR2313U, 8MR2325U, JFZ1742B
A1743D	14V	105A	ER	16mm	N	REV	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: Not available</p>								THERMOKING	412705, 451706, 5D51051G01, 5D51051G02, 5D52972G01, 110-634, 110-637, 110-638, 110-638RM, 8MR2156U, 8MR2195TA, 8MR2334U, 8MR2344, 8MR2347, 8MR2348
A1744H	14V	70A	ER	16mm	N	REV	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: P00129</p>								THERMOKING	305034500, 412194, 412195, 412196, 449755, 5D44463G01, 5D44464G01, 5D44465G01, 5D44466G02, 5D44467G01, 110-581, 110-631, 110-632, 110-633, 110-631RM, 110-632RM, 8MR2130D, 8MR2140F, 8MR2150L, 8MR2151L, 8MR2215D, 8MR2317F, 8MR2341, 8MR2342, 8MR2343
AK1090	14V	90A	ER	17mm	N	REV	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: not available</p>								THERMOKING	415457, 415458, 416780, 416781, 418461, 418463, 418464, 448949, 448950, 449570, 449571, 449572, 449716, 452257, 452498, 452589, 452590, 452592, 452593, 452597, 452668, 452672, 452695, 452697, 452776, 452777, 8449571, 8449572, 8452254, 8452256, 8452589, 8452681, 8452682, 20415457, 5D33839G01, 5D33841G01, 5D37920G01, 5D38602G01, 5D38604G01, 66021624

PART NUMBER	VOLTAGE	AMP	EARTH/ INSULATED RETURN	SHAFT DIA	BATTERY- LESS	ROTATION	PULLEY INFO	APPLICATION	REFERENCES *
AK1120	14V	120A	ER	17mm	N	REV	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: not available</p>								THERMOKING	412571, 415456, 416782, 418465, 419925, 452258, 452259, 452591, 452594, 452596, 452699, 452775, 8415456, 8418465, 8452258, 8452591, 8452683, 20415456, 5D50461G01, 5G50461G01, 20140111
AVI144W3002	28V	105A	ER	20mm	Y	REV	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: P00181</p>								EBERSPACHER VALEO	885003002500 00900026000 AVI144W3001, AVI144W3003 A144W002
AVI150J1106HP	28V	190A	ER	7/8"	N	REV	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: 6530-254C</p>								EBERSPACHER	8850030001500 A150J106
AVI168W	28V	150A	IR	7/8"	Y	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: P00123</p>								VALEO THERMAL SYSTEMS	8850030001100 00900025000
AVI168W3120	28V	150A	IR	7/8"	Y	CW	2V, 72mm	APPLICATION	REFERENCES *
 <p>Regulator: 8RL3018C-2A</p>								KING LONG BUS	A168W120 36052002 37CHA-01504

Alternators

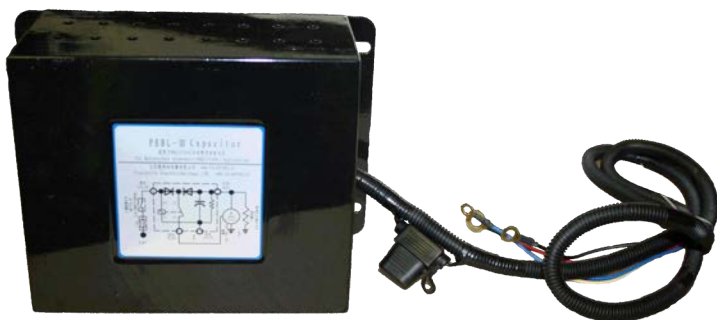
PART NUMBER	VOLTAGE	AMP	EARTH/INSULATED RETURN	SHAFT DIA	BATTERY-LESS	ROTATION	PULLEY INFO	APPLICATION	REFERENCES *
AVI168W3171	28V	150A	IR	7/8"	Y	REV	No Pulley	APPLICATION	REFERENCES *
 <p>Regulator: P00123</p>								BUS AIR CONDITIONING VALEO THERMAL SYSTEMS	00900025001 AVI168W3170, A168W171
AVI186W	28V	200A	IR	30mm	Y	CW	No Pulley	APPLICATION	REFERENCES *
 <p>Coming soon</p>								AIR CONDITIONING SYSTEMS	-
AVI186W3001	28V	200A	IR	30mm	Y	CW	Double V, 100mm	APPLICATION	REFERENCES *
 <p>Coming soon</p>								KINGLONG YUTONG SONGZHI ANKAI	YH180005 811401223 B9ZZ120386 W236013600101W
AVI186W3002	28V	200A	IR	30mm	Y	CW	Double V, 90mm	APPLICATION	REFERENCES *
 <p>Coming soon</p>								AIR CONDITIONING SYSTEMS	-

SURGE PROTECTION DEVICE

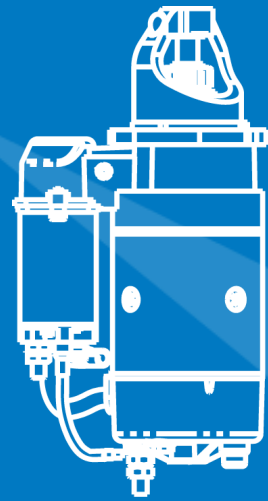
Load dump surge protection unit.






Must be fitted with a batteryless alternator to prevent damage to electronic components when switching loads.

PART NO.	APPLICATION
DR-03	For use on 8LHA3040UC, 8LHA3099UC, 8SC3110VC, 8SC3200V, A0014743JB, AVI144W3002, AVI168W, AVI168W3120 and AVI168W3171
DR-06	For use on AC172RA307C
DR-08	For use on AVI186W, AVI186W3001 and AVI186W3002



Alternators

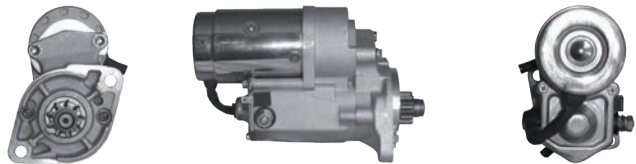



PART NUMBER	VOLTAGE	RATING	EARTH/INSULATED RETURN	ROTATION	TEETH	DIAMETER	PINION AT REST	ENGAGED	APPLICATION	REFERENCES *
20513033	12V	2.0kW	ER	CW	9 (th)	34.0 (Ø)	26 (PAR)	39 (ENG)		KUBOTA 2280000691, 2280004570, 2280004571, 2280004572, 2280004750, 2280004752, 1542563014, 1542563015, 1542563016, 1665263012, 1665263013, 1665263015 PBNS3033
20513057	12V	2.0kW	ER	CW	9 (th)	36.5 (Ø)	20 (PAR)	33 (ENG)		THERMOKING 451277, 451688, 452110, 452177, 452323, 452324, 8452177, 8452324 136961, 2506961, S13207, S13207C, S13407, S13407A, S13407B, S13407C LRS02763, LRS2763 PBNS3057
Pending supersession to MHI207										
20513059	12V	1.4kW	ER	CW	9 (th)	29.0 (Ø)	18 (PAR)	30 (ENG)		CARRIER TRANSICOLD 2535458, 251537000, 253545800, 297013000, 251552000RM 945634 PBNS3059
20513065	12V	2.0kW	ER	CW	15 (th)	44.2 (Ø)	22 (PAR)	36 (ENG)		YANMAR 2T, 3T, 4JH, 4TN ENGINES S114257, S114348, S114349, S114349A, S114483, S13124, S13294, S1341, S1341A, S1341B, S1341C, S1341D, S1394, 12913677011, 12940077012 17100877010, PBNS3065 12125477010, 12125477011, 12125477012, 12125677010, 12497677010, 12497677011 12913077010, 12940077010 12940077011, 12940077012 17100877010
20513587	12V	1.4kW	ER	CW	11 (th)	41.0 (Ø)	25 (PAR)	38 (ENG)		THERMOKING 451312, 451718, 451721 0280005730

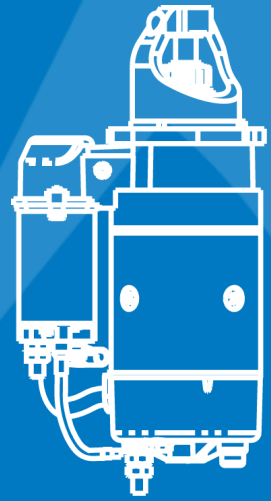
Starter Motors

PART NUMBER	VOLTAGE	RATING	EARTH/ INSULATED RETURN	ROTATION	TEETH	DIAMETER	PINION AT REST	MOUNTING HOLES SIZE	APPLICATION	REFERENCES *	
MHI207	12V	2.0kW	ER	CW	9 (th)	35.2 (Ø)	22 (PAR)	35 (ENG)		THERMOKING	20451688, 20452323 S13207, S13207A, S13207C 20513057 451688, 452323, 461688, 8451688, 8452323, 10451688, 20451688 12648677010, 12648677011, 12948677010, 12948677011
MHI289	12V	2.0kW	ER	CW	9 (th)	32.6 (Ø)	20 (PAR)	33 (PAR)		THERMOKING	S1289, S13211, S13211N, S13289, S13289A, S13289B, S13289C, S1389, S1389A, S1389B, S1389C, S1389D 20513052 451993, 452325, 8451263, 8452325, 10451993, 20451263, 20451671, 20451993, 20451263RM
MHI407	12V	2.2kW	ER	CW	9 (th)	35.2 (Ø)	22 (PAR)	35 (PAR)		THERMOKING	136961, 2506961, HST13407A, S13407, S13407A, S13407B, S13407C, STR0027D 452177, 452324, 8452177, 8452324, 12968577011, 12968577012
MHI815	12V	1.4kW	ER	CW	11 (th)	34.8 (Ø)	19 (PAR)	32.5 (PAR)		YANMAR MARINE	S114815, S114817 LRS01531, LRS01617, LRS1531, LRS1617 20513073 PBNS3073 12960877011, 12969877010
MND0660	12V	1.4kW	ER	CW	9 (th)	34.0 (Ø)	26 (PAR)	39 (PAR)		CARRIER KUBOTA	1666163011, 1666163012, 1666163013, 1666163015 2280000660, 2280000661, 2280000662, 2280000663, 2280000664 253913500, 253913500RB, 253913500RM LRS01332 20513040
Coming soon											

Starter Motors

PART NUMBER	VOLTAGE	RATING	EARTH/INSULATED RETURN	ROTATION	TEETH	DIAMETER	PINION AT REST	MOUNTING HOLES SIZE	APPLICATION	REFERENCES *
MND0930	12V	2.2kW	ER	CW	9 (th)	34.5 (Ø)	24 (PAR)	38 (ENG)		CARRIER TRANSICOLD 1G91163012 253931600 4280000930, 4280000931, 9742809093 F042000056 20513591
Coming soon										
MND6952	12V	2.2kW	ER	CW	9 (th)	34.3 (Ø)	25 (PAR)	38 (PAR)		CARRIER 253529100, 253929100, 253931600, 253931601, 253961000, 253958700SV 93589, 93590 2280006950, 2280006951, 2280006952, 4280000930, 4280000931, 9712809093, 9722809695 LRS04042





Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
ANKAI		20451263	MHI289	300111434	A1738C	93070	66021606
W236013600101W	AVI186W3001	20451671	MHI289	300111436	A1738C	93070	AK1090
BOBCAT		20451688	MHI207	300115101	A1742B	93082	20140111
6633295	8MR2013L	20451993	MHI289	305000900	8AR2169F	93082	AK1120
BOSCH		20452323	MHI207	305030700	8AR2018L	93094	AK1120
0120484028	20140111	20452325	MHI289	305034500	A1744H	93095	66021606
0120484028	AK1120	30011500	A1739B	305040965	A1739B	93584	MHI289
0120484038	AK1090	30030600	8AR2169F	306005003	A1738B	93589	MND6952
0120484049	AK1090	251537000	20513059	306005004	A1738B	93590	MND6952
0120488296	66021606	253529100	MND6952	300036300140954	8AR2018L	93591	MHI207
0120488296	AK1090	253545800	20513059	20451263RM	MHI289	93591	MHI289
0120488297	66021606	253913500	MND0660	251552000RM	20513059	93592	MHI407
0120488297	AK1090	253929100	MND6952	253913500RB	MND0660	910712	MHI407
0986023460	20513059	253931600	MND0930	253913500RM	MND0660	1117225	8LHA2070VF
9120006023	AK1090	253931600	MND6952	253958700SV	MND6952	1117227	8LHA2070VF
9120060023	66021606	253931601	MND6952	300036300R	8AR2018L	1117228	8LHA2070VF
9120060023	AK1090	253961000	MND6952	300036300RM	8AR2018L	1117231	8LHA2070VF
9120060026	66021606	295034000	66021606	300040903RM	A1742B	1117234	8LHA2070VF
9120060026	AK1090	297013000	20513059	300040907RM	A1739B	1117240	8LHA2070VF
9120060027	66021606	300030600	8AR2169F	66U12233	8AR2169F	1117241	8LHA2070VF
9120060027	AK1090	300030602	8AR2169F	TA61500001	8AR2169F	1117242	8LHA2070VF
9120060028	66021606	300030603	8AR2169F	CATERPILLAR		1117244	8LHA2070VF
9120060038	AK1090	300030604	8AR2169F	5S6698	8LHA2070VF	1117251	8LHA2070VF
9442611560	20513059	300030605	8AR2169F	5Z9133	8SC3019U	1117255	8LHA2070VF
0986AN0537	AK1090	300034901	8AR2018L	9X6796	8LHA2070VF	1117259	8LHA2070VF
AL5012N	AK1090	300036300	8AR2018L	OR5205	8LHA2070VF	1117261	8LHA2070VF
AL9120N	20140111	300036301	8AR2018L	CLARK		1117263	8LHA2070VF
AL9120N	AK1120	300036303	8MR2013L	1904944	8AR2169F	1117808	8LHA2070VF
AL9120X	AK1120	300036304	8AR2018L	1916721	8AR2169F	1117837	8LHA2070VF
AL912X	AK1120	300040900	A1742B	M1907944	8AR2169F	1117880	8LHA2070VF
AL927N	66021606	300040902	A1739B	CUMMINS		1117882	8LHA2070VF
AL927N	AK1090	300040903	A1742B	8058	8LHA2070VF	1117883	8LHA2070VF
AL927X	66021606	300040904	A1739B	200305	8LHA2070VF	1117887	8LHA2070VF
AL928N	66021606	300040906	A1737B	203177	8LHA2070VF	1117888	8LHA2070VF
AL928N	AK1090	300040906	A1739B	3632009	8SC3200V	1117891	8LHA2070VF
AL928X	AK1090	300040907	A1739B	3920615	8LHA2070VF	1117892	8LHA2070VF
AL929N	AK1090	300040908	A1739B	5443960	AVI150J1106HP	1117893	8LHA2070VF
AL929X	66021606	300040909	A1742B	3603850RX	8LHA2070VF	1117894	8LHA2070VF
AL929X	AK1090	300040910	A1737B	3604666AX	8LHA2070VF	1117896	8LHA2070VF
F005A00020	20140111	300040910	A1739B	3604666RX	8LHA2070VF	1117898	8LHA2070VF
F005A00020	AK1120	300040911	A1742B	3604667RX	8LHA2070VF	1117899	8LHA2070VF
F005A00028	AK1090	300040919	A1737B	3604670RX	8LHA2070VF	1117902	8LHA2070VF
F042000056	MND0930	300040960	A1737B	3675139RX	8AR2169F	1117904	8LHA2070VF
F042301143	AK1090	300040961	A1737B	3675140RX	8AR2169F	1117905	8LHA2070VF
F042308016	8SC3110VC	300040962	A1737B	3675141R	8AR2018L	1117906	8LHA2070VF
SR10024X	MHI289	300040964	A1737B	3675141RX	8AR2018L	1117908	8LHA2070VF
SR5059X	MHI289	300040965	A1737B	3675146RX	8MR2175F	1117909	8LHA2070VF
CARRIER		300042300	8MR2013L	3675147RX	8MR2185L	1117910	8LHA2070VF
2535458	20513059	300042300	A1737B	3675148RX	MHI289	1117911	8LHA2070VF
3000306	8AR2169F	300055600	A1737B	3675158RX	8LHA2070VF	1117913	8LHA2070VF
3000351	8AR2169F	300055601	A1737B	3675200RX	8LHA2070VF	1117914	8LHA2070VF
3000423	8MR2013L	300111403	A1737B	3675206RX	20513059	1117918	8LHA2070VF
3050005	8AR2169F	300111404	A1737B	3675218RX	8LHA2070VF	1117923	8LHA2070VF
3050307	8AR2018L	300111405	A1737B	3675229RX	8LHA2070VF	1117925	8LHA2070VF
20415456	AK1120	300111406	A1737B	3675236RX	8LHA2070VF	1117928	8LHA2070VF
20415457	66021606	300111407	A1738B	DELCO REMY		1117929	8LHA2070VF
20449571	66021606	300111414	A1738C	68510	MHI207	1117930	8LHA2070VF
20449572	66021606	300111427	A1738B	69500	MHI289	1117931	8LHA2070VF

Cross-References

Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
DELCO REMY		10459111	8LHA2070VF	19010107	8LHA2070VF	19011159	8LHA2070VF
1117932	8LHA2070VF	10459115	8LHA2070VF	19010109	8LHA2070VF	19011160	8LHA2070VF
1117935	8LHA2070VF	10459117	8LHA2070VF	19010113	8LHA2070VF	19011162	8LHA2070VF
1117940	8LHA2070VF	10459126	8LHA2070VF	19010114	8LHA2070VF	19011167	8LHA2070VF
1117941	8LHA2070VF	10459134	8LHA2070VF	19010115	8LHA2070VF	19011169	8LHA2070VF
1117943	8LHA2070VF	10459135	8LHA2070VF	19010116	8LHA2070VF	19011170	8LHA2070VF
1117946	8LHA2070VF	10459141	8LHA2070VF	19010117	8LHA2070VF	19011172	8LHA2070VF
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1117951	8LHA2070VF	10459145	8LHA2070VF	19010129	8LHA2070VF	19011201	8LHA2070VF
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1117962	8LHA2070VF	10459183	8LHA2070VF	19010150	8LHA2070VF	19011232	8LHA2070VF
1117963	8LHA2070VF	10459188	8LHA2070VF	19010151	8LHA2070VF	19011233	8LHA2070VF
1117965	8LHA2070VF	10459189	8LHA2070VF	19010153	8LHA2070VF	19011234	8LHA2070VF
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8700023	8LHA2070VF	10459210	8LHA2070VF	19010163	8LHA2070VF	19011263	8LHA2070VF
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10459075	8LHA2070VF	10459612	8LHA2070VF	19010212	8LHA2070VF	19020381	8LHA2070VF
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10459090	8LHA2070VF	10461659	20513065	19011152	8LHA2070VF	19020806	8LHA2070VF
10459104	8LHA2070VF	10465438	MHI289	19011154	8LHA2070VF	61013382	66021606
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10459107	8LHA2070VF	19010104	8LHA2070VF	19011157	8LHA2070VF	DRS0106	20513065
10459109	8LHA2070VF	19010105	8LHA2070VF	19011158	8LHA2070VF	DRS0712	20513057

Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
DELCO REMY		EBERSPACHER		UA1108IR	8LHA2070VF	S1389C	MHI289
DRS0712	MHI407	885003002500	AVI144W3002	UA931IR	8AR2018L	S1389D	MHI289
DRS3376	MHI289	8850030001100	AVI168W	UA934IR	8MR2175F	S1389D	MHI289
DRS3714	20513059	8850030001500	AVI150J1106HP	UA935IR	8MR2185L	STR0027D	MHI407
DS1822	MHI407	FORD		HIGER BUS		INTERNATIONAL	
DS4486	MHI289	235085	8AR2169F	37V0D01002	AC172RA307C	1677974C92	8LHA2070VF
R0459111	8LHA2070VF	9609165	8AR2169F	HITACHI		1680859C92	8LHA2070VF
R0459135	8LHA2070VF	23570335	8AR2169F	136961	20513057	3574551C92	8LHA2070VF
S114815	MHI815	42535508	20513065	136961	MHI407	383290C91	8LHA2070VF
DENNIS		8V23508509	8AR2169F	2506961	20513057	511146C91	8LHA2070VF
656639	8SC3200V	D4HF10300AA	8LHA2070VF	2506961	MHI407	844319C91	8LHA2070VF
11060862	AVI150J1106HP	D4HF10300C	8LHA2070VF	HST13407A	MHI407	LNAVI150J1106HP	AVI150J1106HP
DENSO		D4HF10346C	8LHA2070VF	S114257	20513065	ISUZU	
2819300	MHI289	D4HF10346CA	8LHA2070VF	S114348	20513065	8941475492	MHI289
0280005730	20513587	D4HZ10346A	8LHA2070VF	S114349	20513065	8944299770	MHI289
0280008320	20513059	D7HZ10346A	8LHA2070VF	S114349A	20513065	8944299771	MHI289
1012118050	8LHA2070VF	D7HZ10346D	8LHA2070VF	S114483	20513065	8944299772	MHI289
1012118060	8LHA2070VF	E7HT10300CA	8LHA2070VF	S114815	MHI815	8971185420	MHI289
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1280000050	20513059	E8HZ10346K	8LHA2070VF	S1289	MHI289	8972286640	MHI289
1280003590	20513059	F1HS10346BA	8LHA2070VF	S13207	20513057	JOHN DEERE	
1280005261	20513059	F2HS103446CA	8LHA2070VF	S13207	MHI207	AM875415	20513065
1280009050	20513059	F3HT10300AA	8LHA2070VF	S13207A	MHI207	AM876224	20513065
1280009051	20513059	F3HT10300CA	8LHA2070VF	S13207C	20513057	AM878187	20513065
1280009950	20513059	F3HT10300HB	8LHA2070VF	S13207C	MHI207	AT142246	8LHA2070VF
2280000660	MND0660	F3HT10300JB	8LHA2070VF	S13211	MHI289	MG9609165	8AR2169F
2280000661	MND0660	F3HZ10346E	8LHA2070VF	S13211	MHI289	TY6753	8LHA2070VF
2280000662	MND0660	F3HZ10346J	8LHA2070VF	S13211N	MHI289	KÄSSBOHRER	
2280000663	MND0660	F4HT10300DA	8LHA2070VF	S13289	MHI289	74213630000	AVI150J1106HP
2280000664	MND0660	F4HT10300EA	8LHA2070VF	S13289	MHI289	KENWORTH	
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2280000790	20513059	F4HT10300KA	8LHA2070VF	S13289A	MHI289	KING LONG	
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2280000950	20513059	F5HZ10346B	8LHA2070VF	S13289C	MHI289	37CHA01504	AVI168W3120
2280000951	20513059	F5HZ10346BRM	8LHA2070VF	S13294	20513065	YH180005	AVI186W3001
2280000980	20513059	F6HZ10346A	8LHA2070VF	S13407	20513057	KOMATSU	
2280000981	20513059	F7HZ10346A	8LHA2070VF	S13407	MHI407	12960877010	MHI815
2280000990	20513059	GL170	8LHA2070VF	S13407	MHI407	17100877010	20513065
2280000991	20513059	GL192	8LHA2070VF	S13407A	20513057	KRAUF	
2280001530	20513059	GL249	8LHA2070VF	S13407A	MHI407	ALB37116	AK1090
2280001531	20513059	GL332	8LHA2070VF	S13407A	MHI407	KUBOTA	
2280003660	20513059	GL358	8LHA2070VF	S13407B	20513057	1542563014	20513033
2280004570	20513033	FREIGHTLINER		S13407B	MHI407	1542563015	20513033
2280004571	20513033	LN110555	8LHA2070VF	S13407C	20513057	1542563016	20513033
2280004572	20513033	HELLA		S13407C	MHI407	1550463010	20513059
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2280006951	MND6952	8EA732851001	20513059	S1341C	20513065	1560163011	MND6952
2280006952	MND6952	8EL730147001	8AR2018L	S1341D	20513065	1560163012	MND6952
4280000930	MND0930	8EL730150001	8MR2175F	S1378	20513065	1562163010	MND6952
4280000930	MND6952	8EL730151001	8MR2185L	S1389	MHI289	1562163011	MND6952
4280000931	MND0930	8EL73080001	8LHA2070VF	S1389	MHI289	1562163012	MND6952
4280000931	MND6952	CA1082IR	66021606	S1389A	MHI289	1562163014	MND6952
9712809093	MND6952	JS676	20513059	S1389A	MHI289	1562163015	MND6952
9722809695	MND6952	JS730	20513059	S1389B	MHI289	1574163010	20513059
9742809093	MND0930	JS776	MHI289	S1389B	MHI289	1574163011	20513059
DSN2077	20513059	JS908	20513059	S1389C	MHI289	1627163010	20513059

Cross-References

Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
KUBOTA		LRA03806	AK1120	110400	8MR2175F	110400	8MR2185L
1627163012	20513059	LRA1044	8MR2329L	8AL2019F	8AR2169F	110406	8AR2018L
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1628563011	20513059	LRA2557	66021606	8AR2073F	8AR2169F	110470	8AR2169F
1628563012	20513059	LRA841	8MR2329L	8EA2018	8AR2018L	110476	8MR2013L
1661163012	20513059	LRS01169	20513059	8EA2018N	8AR2018L	110487	8MR2013L
1661163013	20513059	LRS01198	MHI289	8EA2018NA	8AR2018L	110527	8MA2019KA
1661263010	20513059	LRS01251	20513059	8EK2004D	8MR2175F	110555	8LHA2070VF
1661263011	20513059	LRS01332	MND0660	8EK2005ND	8MR2185L	110568	8SC3200V
1661263012	20513059	LRS01531	MHI815	8EK2007NA	8MR2185L	110575	8SC3200V
1665263012	20513033	LRS01617	MHI815	8EK2008FA	8MR2175F	110576	8SC3200V
1665263013	20513033	LRS02763	20513057	8EK2009FB	8MR2175F	110581	8MR2215D
1665263015	20513033	LRS02763	MHI407	8EK2010NB	8MR2175F	110581	A1744H
1666163011	MND0660	LRS04042	MND6952	8EK2010NB	8MR2185L	110600	8MR2185L
1666163012	MND0660	LRS1169	20513059	8EK2010NC	8MR2175F	110606	A1739B
1666163013	MND0660	LRS1531	MHI815	8EK2012NB	8MR2185L	110608	A1742B
1666163015	MND0660	LRS1617	MHI815	8EM2012	8AR2018L	110611	8MR2329L
1669563011	20513059	LRS2763	20513057	8EM2012NA	8AR2018L	110629	8AR2169F
1669563012	20513059	LUCAS ELECTRICAL		8MR2170F	8MR2175F	110631	A1744H
1687163012	20513059	LES0113	20513065	8MR2171F	8MR2175F	110632	A1744H
1746963012	20513059	LRS01206	20513065	A12N451	8AR2169F	110633	A1744H
1759463011	20513059	LRS01308	20513065	RA12N451D	8AR2169F	110634	A1743D
1901363011	MND6952	MAGNETI MARELLI		RA12N453	8AR2169F	110635	8MR2345
1901363012	MND6952	4222697	8MR2329L	NEW HOLLAND		110637	A1743D
1909017861	20513059	63302900	8MR2329L	235175	8AR2169F	110638	8MR2348
1921263010	20513059	63303100	8MR2329L	09609165	8AR2169F	110638	A1743D
1921263011	20513059	63303130	8MR2329L	9609165	8AR2169F	110639	8MR2349
1921563011	20513059	63303140	8MR2329L	9824834	8LHA2070VF	110643	A1742B
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1942063012	20513059	11204293	AK1090	110140	8AR2018L	20513073	MHI815
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1946063012	MND6952	AAK3891	AK1090	110158	8SC3019U	66021624	AK1090
1946063013	MND6952	IA1487	AK1090	110161	8AR2169F	110555HD	8LHA2070VF
1946063071	MND6952	MG702	AK1090	110183	8SC3019U	110555JHO	8LHA2070VF
1962663011	20513059	MOBILE CLIMATE CONTROL		110229	8LHA2070VF	110606RM	A1739B
2280007151	20513059	Y450000600	A0014743JB	110241	8AR2169F	110608RM	A1742B
3756063011	20513059	MOTORCRAFT		110250	8LHA2070VF	110611RM	8MR2329L
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1G91163012	MND6952	1086	8AR2169F	110329	8AR2169F	8AR2022F	8AR2169F
LUCAS		1101	8AR2169F	110333	8AR2169F	8AR2024F	8AR2169F
LRA00137	8MR2329L	10112	8AR2169F	110342	8AR2169F	8AR2033F	8AR2169F
LRA00841	8MR2329L	10214	8AR2169F	110383	8AR2018L	8AR2037F	8AR2169F
LRA01044	8MR2329L	10273	8AR2169F	110385	8MR2013L	8AR2041F	8AR2169F
LRA02021	8MR2175F	10289	8AR2169F	110390	8MR2013L	8AR2050F	8AR2169F
LRA02557	66021606	110399	8MR2175F	110399	8MR2175F	8AR2060F	8AR2169F

Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
PRESTOLITE		8LHA3040UCE15	8LHA3040UC	8SC3110VC98	8SC3110VC	412199	8MR2175F
8AR2066F	8AR2169F	8LHA3040VC30	8LHA3040UC	8SC3110VCH114	8SC3110VC	412200	8MR2185L
8AR2069F	8AR2169F	8MA2019K	8MA2019KA	8SC3112V	8SC3200V	412201	8MR2185L
8AR2160F	8AR2169F	8MR2123L	8MR2329L	8SC3127V	8SC3200V	412571	20140111
8EA2001F	8AR2169F	8MR2130D	A1744H	8SC3150VC	8SC3110VC	412571	AK1120
8EA2001FA	8AR2169F	8MR2140F	A1744H	8SC3150VC30	8SC3110VC	412705	8MR2348
8EA2004F	8AR2169F	8MR2150L	A1744H	8SC3150VC30A	8SC3110VC	412705	A1743D
8EA2013N	8MR2013L	8MR2151L	A1744H	8SC3150VC95	8SC3110VC	413020	8SC3200V
8EA2013NA	8MR2013L	8MR2156U	A1743D	8SC3151VCA49	8SC3110VC	415456	20140111
8EA2018N	8AR2018L	8MR2195TA	8MR2348	8SC3151VCA59	8SC3110VC	415456	AK1120
8EA2018NA	8AR2018L	8MR2195TA	A1743D	8SC3151VCA7	8SC3110VC	415457	66021606
8EK2005NA	8MR2185L	8MR2197T	8MR2349	8SC3151VCA77	8SC3110VC	415457	AK1090
8EK2005NB	8MR2185L	8MR2215D	A1744H	8SC3151VCB7	8SC3110VC	415458	66021606
8EK2005NC	8MR2185L	8MR2215DCA	8MR2215D-CA	8SC3207V	8SC3200V	415458	AK1090
8EK2005ND	8MR2185L	8MR2313U	A1742B	A1737A	A1737B	416780	66021606
8EK2006FA	8MR2345	8MR2316L	A1739B	A1737F	A1737B	416780	AK1090
8EK2006FB	8MR2345	8MR2317F	A1744H	ALK7321	8AR2169F	416781	66021606
8EK2006FC	8MR2345	8MR2325U	A1742B	AVI144W3001	AVI144W3002	416781	AK1090
8EK2007N	8MR2185L	8MR2326L	A1739B	AVI144W3003	AVI144W3002	416782	20140111
8EK2007NA	8MR2185L	8MR2334U	A1743D	JFZ1737B	A1737B	416782	AK1120
8EK2007NB	8MR2185L	8MR2341	A1744H	JFZ1738B	A1738B	418461	66021606
8EK2007NC	8MR2185L	8MR2342	A1744H	JFZ1739B	A1739B	418461	AK1090
8EK2007ND	8MR2185L	8MR2343	A1744H	JFZ1742B	A1742B	418463	AK1090
8EK2008F	8MR2175F	8MR2344	A1743D	PBNS3033	20513033	418464	AK1090
8EK2008FA	8MR2175F	8MR2347	A1743D	PBNS3052	MHI289	418465	AK1120
8EK2008FB	8MR2175F	8MR2348	A1743D	PBNS3057	20513057	419856	66021606
8EK2008FC	8MR2175F	8SA2017R	8LHA2070VF	PBNS3059	20513059	419925	AK1120
8EK2008FD	8MR2175F	8SA2022R	8LHA2070VF	PBNS3065	20513065	444021	8SC3019U
8EK2009FA	8MR2175F	8SC3002U	8SC3019U	PBNS3073	MHI815	446368	8SC3200V
8EK2009FB	8MR2175F	8SC3003U	8SC3019U	RA12N451	8AR2169F	446918	8SC3200V
8EK2009FC	8MR2175F	8SC3017V	8SC3200V	RA12N453	8AR2169F	447154	8MR2175F
8EK2010NA	8MR2185L	8SC3017VA	8SC3200V	RM110250	8LHA2070VF	447155	8MR2175F
8EK2010NB	8MR2185L	8SC3018V	8SC3200V	SABRE		447156	8MR2185L
8EK2010NC	8MR2185L	8SC3018VA	8SC3200V	34416	8LHA2070VF	447376	8MR2175F
8EK2010ND	8MR2185L	8SC3110V	8SC3200V	SONGZHI		447924	8MR2175F
8EK2012NA	8MR2185L	8SC3110VC	8SC3200V	B9ZZ120386	AVI186W3001	447925	8MR2175F
8EK2012NB	8MR2185L	8SC3110VC09	8SC3110VC	SOUTHERN PARTS		447926	8MR2175F
8EK2170F	8MR2345	8SC3110VC111	8SC3110VC	S0289	A1737B	447927	8MR2185L
8EM2001FA	8AR2169F	8SC3110VC117	8SC3110VC	S0289	A1737C	448091	8MR2175F
8EM2001FAS	8AR2169F	8SC3110VC118	8SC3110VC	S0950	8AR2018L	448535	8MR2175F
8EM2013N	8MR2013L	8SC3110VC120	8SC3110VC	THERMO KING		448901	8MR2175F
8EM2013NA	8MR2013L	8SC3110VC120E	8SC3110VC	4121	8MR2175F	448902	8MR2175F
8LHA2022R	8LHA2070VF	8SC3110VC17	8SC3110VC	4122	8MR2185L	448903	8MR2175F
8LHA2023	8LHA2070VF	8SC3110VC18	8SC3110VC	4463	8SC3200V	448904	8MR2175F
8LHA2023V	8LHA2070VF	8SC3110VC23	8SC3110VC	4469	8SC3200V	448904	8MR2185L
8LHA2070	8LHA2070VF	8SC3110VC37	8SC3110VC	4489	8LHA2070VF	448939	8MR2175F
8LHA2070V	8LHA2070VF	8SC3110VC39	8SC3110VC	4497	8MR2185L	448940	8MR2175F
8LHA2070VB	8LHA2070VF	8SC3110VC40	8SC3110VC	8447	8MR2175F	448940	8MR2185L
8LHA2070VBF	8LHA2070VF	8SC3110VC42	8SC3110VC	8447	8MR2185L	448949	66021606
8LHA2070VE	8LHA2070VF	8SC3110VC43	8SC3110VC	42367	66021606	448949	AK1090
8LHA3040UC03	8LHA3040UC	8SC3110VC64	8SC3110VC	412194	8MR2215D	448950	66021606
8LHA3040UC05	8LHA3040UC	8SC3110VC65	8SC3110VC	412194	A1744H	448950	AK1090
8LHA3040UC13	8LHA3040UC	8SC3110VC79	8SC3110VC	412195	8MR2175F	448996	8LHA2070VF
8LHA3040UC19	8LHA3040UC	8SC3110VC80	8SC3110VC	412195	A1744H	449562	66021606
8LHA3040UC22	8LHA3040UC	8SC3110VC81S	8SC3110VC	412196	A1744H	449570	66021606
8LHA3040UC34	8LHA3040UC	8SC3110VC83	8SC3110VC	412197	8MR2175F	449570	AK1090
8LHA3040UC45	8LHA3040UC	8SC3110VC91	8SC3110VC	412198	8MR2175F	449571	66021606
8LHA3040UC54	8LHA3040UC	8SC3110VC94	8SC3110VC	412198	8MR2345	449571	AK1090

Cross-References

Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
THERMO KING		452697	AK1090	1E51760G01	66021606	5D44465G02	A1744H
449572	66021606	452699	AK1120	1E51761G01	66021606	5D44466G01	8MR2175F
449572	AK1090	452775	AK1120	1E51762G01	20140111	5D44466G01	8MR2345
449716	AK1090	452776	AK1090	20451263RM	MHI289	5D44466G02	8MR2175F
449750	8MR2175F	452777	AK1090	27D2786G01	8MR2175F	5D44466G03	8MR2175F
449751	8MR2175F	461688	MHI207	2D27278603	8MR2175F	5D44466G034121	8MR2175F
449752	8MR2175F	945634	20513059	2D72777G01	8MR2185L	5D44467G01	8MR2185L
449753	8MR2175F	3040103	8SC3200V	2D72785G01	8MR2175F	5D44467G01	8MR2215D
449753	8MR2185L	4489750	8MR2175F	2D72786G01	8MR2175F	5D44467G01	A1744H
449754	8MR2175F	4489751	8MR2175F	2D72786G02	8MR2175F	5D44467G02	8MR2185L
449755	8MR2175F	4489754	8MR2175F	2D72786G02	8MR2185L	5D44467G024122	8MR2185L
449755	A1744H	8351263	MHI289	2D72786G03	8MR2175F	5D46047G01	8MR2349
451263	MHI289	8352325	MHI289	2D72787G01	8MR2185L	5D50461G01	20140111
451277	20513057	8415456	AK1120	2D72787G02	8MR2185L	5D50461G01	AK1120
451312	20513587	8415457	66021606	3D97252G01	8LHA2070VF	5D51051G01	8MR2348
451671	MHI289	8415458	66021606	3D97385G01	8MR2175F	5D51051G01	A1743D
451688	20513057	8418461	66021606	3D97386G01	8MR2175F	5D51051G02	A1743D
451688	MHI207	8418463	66021606	3D97386G018447	8MR2175F	5D51321G01	8SC3200V
451706	8MR2348	8418465	20140111	3D97386G02	8MR2175F	5D51939G01	8SC3200V
451706	A1743D	8418465	AK1120	3D97386G03	8MR2175F	5D52972G01	A1743D
451718	20513587	8447925	8MR2175F	3D97387G01	8MR2175F	5G50461G01	AK1120
451721	20513587	8447927	8MR2185L	3D97387G01	8MR2185L	TIMBERJACK	
451993	MHI289	8449571	66021606	3D97387G018447	8MR2185L	8103350	8AR2169F
452110	20513057	8449571	AK1090	3D97387G02	8MR2185L	8245752	8AR2169F
452177	20513057	8449572	66021606	4116D22G03	8MR2175F	VALEO	
452177	MHI407	8449572	AK1090	4125D55G01	8SC3200V	436373	A1738B
452254	66021606	8451263	MHI289	4125D55G014469	8SC3200V	439184	A1738B
452256	66021606	8451688	MHI207	4125D55G02	8SC3200V	439233	A1738B
452257	66021606	8452177	20513057	4125D55G024463	8SC3200V	439243	A1738B
452257	AK1090	8452177	MHI407	5D33839G01	66021606	2541477	A1738B
452258	20140111	8452254	AK1090	5D33839G01	AK1090	2541671	A1738B
452258	AK1120	8452256	AK1090	5D33841G01	66021606	2542276	A1738B
452259	AK1120	8452258	AK1120	5D33841G01	AK1090	2542296	A1738B
452323	20513057	8452323	MHI207	5D35740G01	8MR2175F	4222697	8MR2329L
452323	MHI207	8452324	20513057	5D35741G01	8MR2175F	4702601	A1737B
452324	20513057	8452324	MHI407	5D35741G014497	8MR2175F	4702603	A1737B
452324	MHI407	8452325	66021606	5D35741G02	8MR2175F	4702610	A1737B
452325	66021606	8452325	MHI289	5D35741G024497	8MR2175F	4702611	A1737B
452325	MHI289	8452589	AK1090	5D35741G03	8MR2175F	4702615	A1738B
452498	66021606	8452591	AK1120	5D35741G04	8MR2175F	63302900	8MR2329L
452498	AK1090	8452597	66021606	5D35741G044497	8MR2175F	63303100	8MR2329L
452589	66021606	8452681	AK1090	5D35742G01	8MR2175F	63303130	8MR2329L
452589	AK1090	8452682	AK1090	5D35742G01	8MR2185L	63303140	8MR2329L
452590	66021606	8452683	AK1120	5D35742G014497	8MR2185L	63303150	8MR2329L
452590	AK1090	10415458	66021606	5D35742G02	8MR2175F	63303191	8MR2329L
452591	20140111	10451688	MHI207	5D35742G02	8MR2185L	63303280	8MR2329L
452591	AK1120	10451993	MHI289	5D35742G03	8MR2175F	63304800	8MR2329L
452592	66021606	16084103	66021606	5D35742G03	8MR2185L	63304830	8MR2329L
452592	AK1090	20415456	AK1120	5D35742G034497	8MR2185L	00900025000	AVI168W
452593	AK1090	20415457	AK1090	5D37920G01	AK1090	00900025001	AVI168W3171
452594	AK1120	20451263	MHI289	5D38602G01	AK1090	00900026000	AVI144W3002
452595	66021606	20451671	MHI289	5D38603G01	66021606	A12M1241242X	8MR2329L
452596	AK1120	20451688	MHI207	5D38604G01	66021606	MG120558	20513065
452597	66021606	20451993	MHI289	5D38604G01	AK1090	TM000A22801	20513065
452597	AK1090	41044000	MHI289	5D44463G01	8MR2215D	VOLVO	
452668	AK1090	10415458B	66021606	5D44463G01	A1744H	849747	8LHA2070VF
452672	AK1090	1E32215G01	66021606	5D44464G01	A1744H	802010039	8LHA2070VF
452695	AK1090	1E32217G01	20140111	5D44465G01	A1744H	V1114263	8LHA2070VF

Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
VOLVO							
V1114267	8LHA2070VF						
V1117560	8LHA2070VF						
WESTERN STAR							
802010021	8LHA2070VF						
WISCONSIN							
YB85B	8AR2169F						
YB85D	8AR2169F						
YANMAR							
12125477010	20513065						
12125477011	20513065						
12125477012	20513065						
12125477019	20513065						
12125677010	20513065						
12497677010	20513065						
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12913077010	20513065						
12948677010	MHI207						
12948677011	20513057						
12948677011	MHI207						
12948677011	MHI289						
12960877011	MHI815						
12968577011	20513057						
12968577011	MHI407						
12968577012	20513057						
12968577012	MHI407						
12969877010	MHI815						
17100877010	20513065						
17105877010	20513065						
C11H382684	MHI289						
YUTONG							
811401223	AVI186W3001						
ZHONGTONG BUS							
37018000002	8SC3110VC						
W4005030308	8LHA3040UC						
W4005030310	8LHA3099UC						

Cross-References

Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
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