

Prestolite
electric

Leece-Neville

THE POWER OF EXCELLENCE

Refrigeration units

Unités de réfrigération

Unidades de refrigeración



PP4030
Rev: 1 (0208)

2008

OUR COMPANY

Prestolite is a rapidly expanding global company with manufacturing and distribution in North and South America, Europe and Asia. Having research and development facilities in each of these locations, the company combines the engineering know-how and manufacturing expertise of Lucas CAV, Leece-Neville, Butec and Motorola, to produce the best starters and alternators range in the market.



OUR BRANDS

Effective from mid 2007 you will see that all of our products are dual branded 'Prestolite' and 'Leece-Neville'. We think it's important that our customers are able to make the link between these two great brands and it's a reminder that all 'Leece-Neville' products are available from Prestolite – and vice versa!

OUR PRODUCTS

We offer a complete range of Heavy, Medium and Light Duty starters and alternators covering all major European Truck, Car and Van applications as well as comprehensive Bus & Coach, Off-Highway, Agricultural, Marine and Industrial application coverage.

Look out for our new Refrigeration Equipment and Marine catalogues coming soon!



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.





a division of Prestolite Electric Inc.

New Refrigeration Catalogue introduction

Dear Customer

Welcome to the brand new Refrigeration catalogue for Prestolite Electric products. This is the second in this brand new format, and we've included lots of new features to ensure that you have the very best information to help service your Refrigeration customers. Inside you'll find product illustrations in a newly introduced 'Buyers Guide' section, technical information, wiring diagrams and application and cross reference information specific to Refrigeration applications.

This is part of the process of renewing our range of catalogues, if you have any suggestions on how we can further improve the information we give you, we'd be delighted to hear from you, contact us on eu_info@prestolite.com

Thanks for your continued support,

Eric Bippus
Vice President - Global Aftermarket Sales
Prestolite Electric Ltd

(LH0024_09/07)

www.prestolite.com

Prestolite Electric Ltd - Heavy Duty Systems

Unit 48
The Metropolitan Park
12-16 Bristol Road, Greenford
Middlesex, UB6 8UP,
United Kingdom
Tel: +44 (0) 20 8231 1137
Fax +44 (0) 20 8575 9575

Prestolite Electric Ltd. Registered in England No. 1189048

© 2008 Prestolite Electric Ltd www.prestolite.com

TABLE OF CONTENTS

SECTION	TITLE	PAGE
A	How to use this Catalogue	A-1
A	Reference Key	A-3
A	Glossary of Alternator Terms	A-3
A	Alternator Wiring Diagrams	A-5
A	Alternator Function	A-8
A	Alternator Troubleshooting Guide	A-8
A	Glossary of Starter Motor Terms	A-9
A	Starter Motor Wiring Diagram	A-10
A	Starter Motor Function	A-12
A	Starter Motor Troubleshooting Guide	A-12
1	Alternator Application Guide	1
2	Alternator Buyer's Guide	11
3	Starter Motor Application Guide	19
4	Starter Motor Buyer's Guide	25
5	Cross Reference Guide	29
6	Service Parts List	33

Catalogue Ref No: PP4030
Issue no: 1 (02/08)





DISCLAIMER

While every care has been taken in compiling the information in this document, Prestolite / Leece-Neville cannot accept legal liability for any inaccuracies, omissions, or consequential damage resulting there from. Prestolite / Leece-Neville has an extensive design and development team which may alter product specification. Prestolite / Leece-Neville reserves the right to alter specifications without notice and whenever necessary to endure optimum performance from its product range.





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.

REFRIGERATION APPLICATION GUIDE						
ALTERNATORS						
Leece-Neville						
 AC				OUTPUT V / A	NOTES / NOTAS / ANMERKUNG	
CARRIER TRANSICOLD						
> TRAILER UNITS						
Extra	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-609RM	12V / 65A		
Extra	All	Kubota CT4-114-TV (V1902-TV) Diesel	110-607RM	12V / 65A		

Vehicle Manufacturer (points to 'Extra' in first column)
 Vehicle Model (points to 'Extra' in first column)
 Vehicle Type (points to 'All' in second column)
 Application Date (points to 'All' in second column)
 Engine / Chassis Info (points to 'Kubota CT4-134-TV (V2203-TV) Diesel')
 Prestolite Alternator Part no. (points to '110-609RM')
 Alternator Output (points to '12V / 65A')
 Additional Notes (points to empty 'NOTES' column)




REFRIGERATION APPLICATION GUIDE						
STARTER MOTORS						
Leece-Neville						
 AC				OUTPUT V / kW	NOTES / NOTAS / ANMERKUNG	
THERMO KING						
> TRAILER UNITS						
Super II	83 >>	Isuzu 2.2L (TK D12.2, -SE) Diesel	20513052	12V / 2.0kW		
Super II	83 >>	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW		

Vehicle Manufacturer (points to 'Super II' in first column)
 Vehicle Model (points to 'Super II' in first column)
 Vehicle Type (points to '83 >>' in second column)
 Application Date (points to '83 >>' in second column)
 Engine / Chassis Info (points to 'Isuzu 2.2L (TK D12.2, -SE) Diesel')
 Prestolite Starter motor Part no. (points to '20513052')
 Starter Motor Output (points to '12V / 2.0kW')
 Additional Notes (points to empty 'NOTES' column)

HOW TO USE THIS CATALOGUE




REFRIGERATION BUYER'S GUIDE ALTERNATORS

Labels: Prestolite Part no., Voltage, Output Current, Insulated or Earth return, Shaft size, Rotation, Pulley info, Application listings, Alternator images

110-609RM	12V	65A	IR	5/8"	Clockwise	None	APPLICATION
			CARRIER TRANSICOLD > ENGINES - Various Models > TRAILER UNIT - Extra, Genesis TM900 / TM1000/ TR100, Phoenix Ultra XL, Ultima 53				

REFRIGERATION BUYER'S GUIDE STARTER MOTORS

Labels: Prestolite Part no., Voltage, Output Power, Insulated or Earth return, Rotation, Direct drive / Gear-reduced, No. of teeth, Pinion diameter, Pinion at rest, Full travel position, Application listings, Starter Motor images

20513032	12V	2.0kW	ER	CW	GR	15	50	20	33	APPLICATION
			THERMO KING > ENGINES - Various Models > TRAILER UNIT - URD-III MAX > TRUCK UNIT - KD-II SR, MD-200 / MT, MD-300, MD-II MAX / SR / MAX SR, RD-II TLE, TS Spectrum, TS-200, TS-300, TS-500, TS-600, UTS, XDS							

REFRIGERATION CROSS-REFERENCE GUIDE

Labels: Alternative manufacturer / supplier, Prestolite Part no., Alternative manufacturer / supplier Part no.

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

REFERENCE KEY

Starter Motor & Alternator Sections			
>>ch...	Up to chassis no.....	gr	Gear reduced
a/c	Air conditioning	inj.	Injection
a/t	Automatic transmission	int.fan	Internal fan
B+	Battery positive terminal	m/t	Manual transmission
B-	Battery negative terminal	o.c.p	Overrunning clutch pulley
c.c	Cold climate	p	petrol
c.s	Cold start	p.m	Permanent magnets
carb	Carburettor	ps	Power steering
cat	Catalyst	r	Phase terminal
ch.	Chassis no.	td	Turbo diesel
ch...>>	From chassis no....	w...	With...
d	Diesel	wo....	Without....
D+	Warming lamp	w/pump	Water pump
dd	Direct drive	w/tach	with tachometer terminal

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 \sim 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.

GLOSSARY OF ALTERNATOR TERMS

CONTINUED...

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.

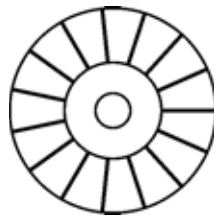


Fig.1



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.

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

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

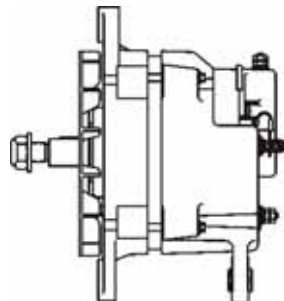


Fig.3

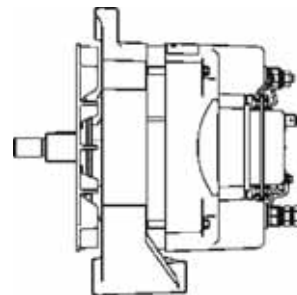


Fig.4

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)

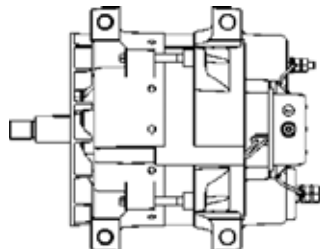


Fig.5

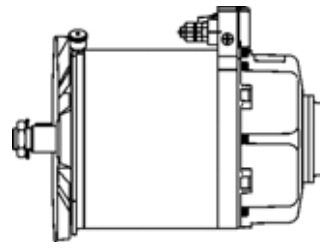


Fig.6

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.

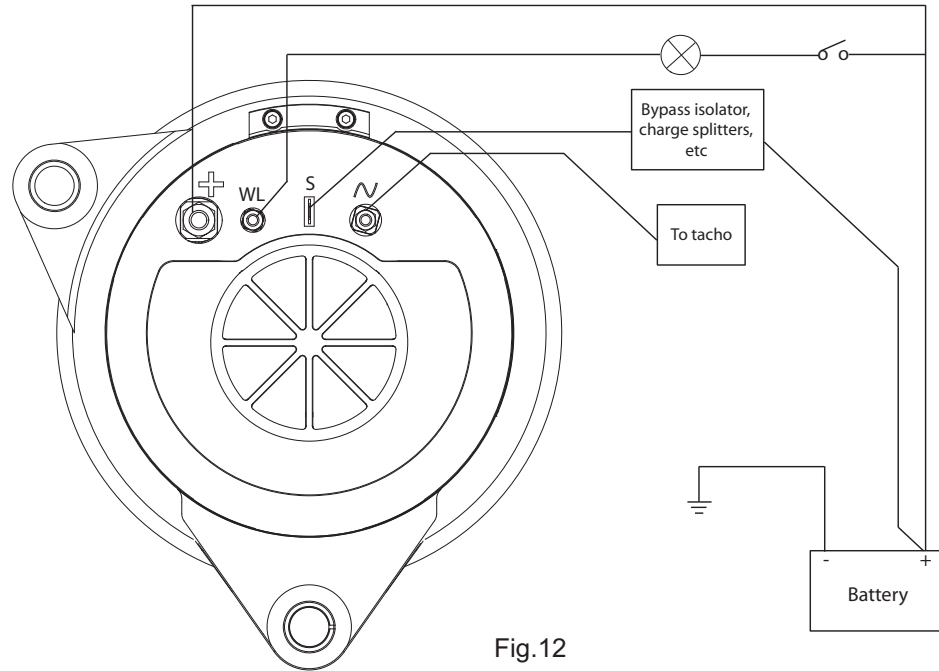


Fig.12

INSULATED RETURN

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

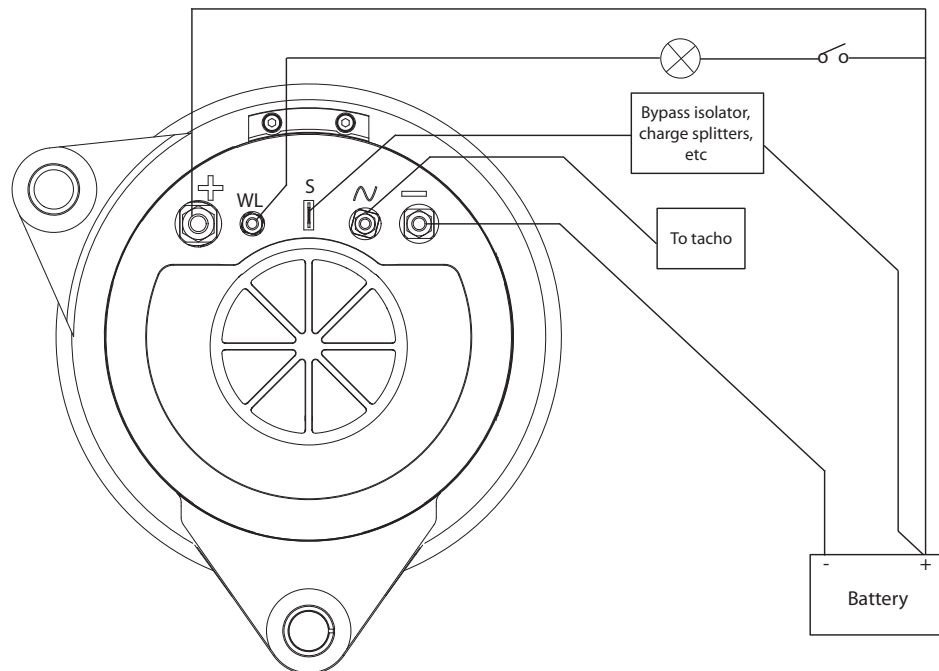


Fig.13

ALTERNATOR WIRING DIAGRAMS CONTINUED...

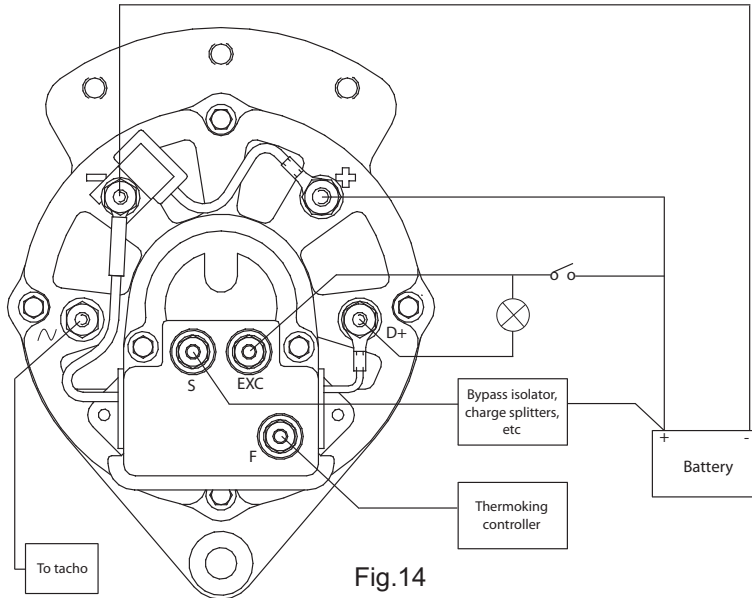


Fig.14

FIELD CONNECTION

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

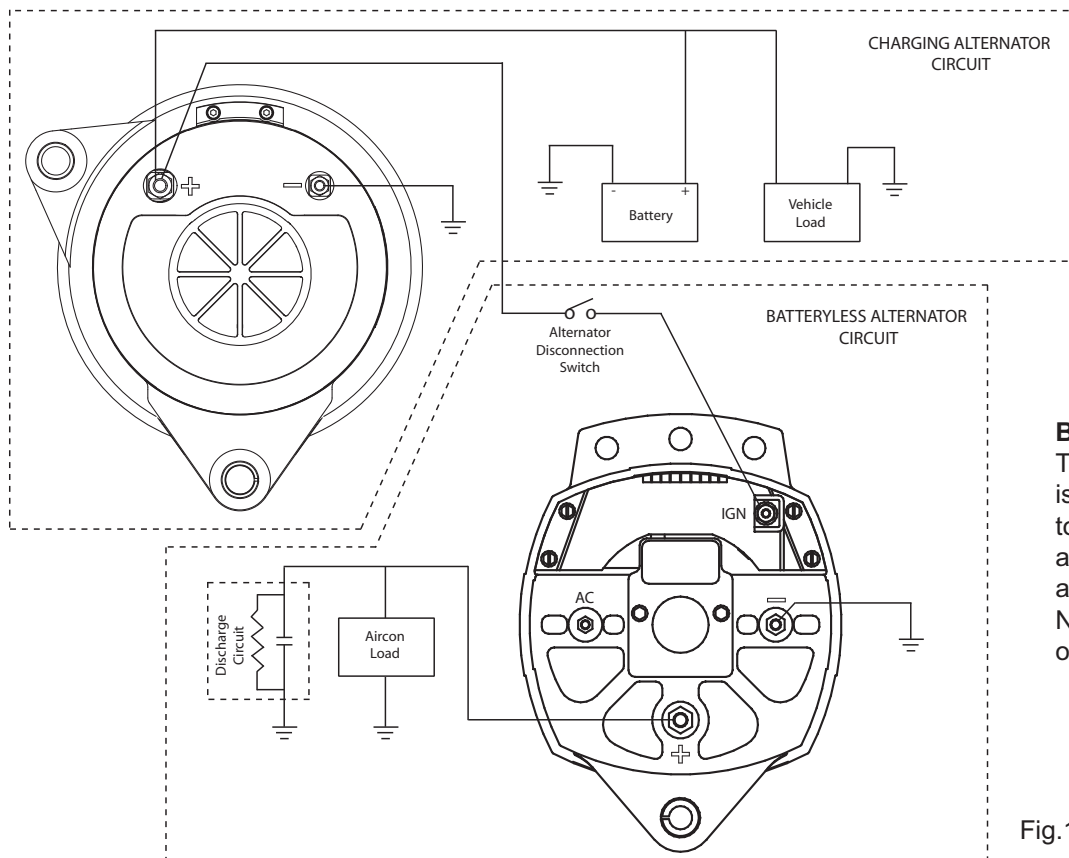


Fig.15

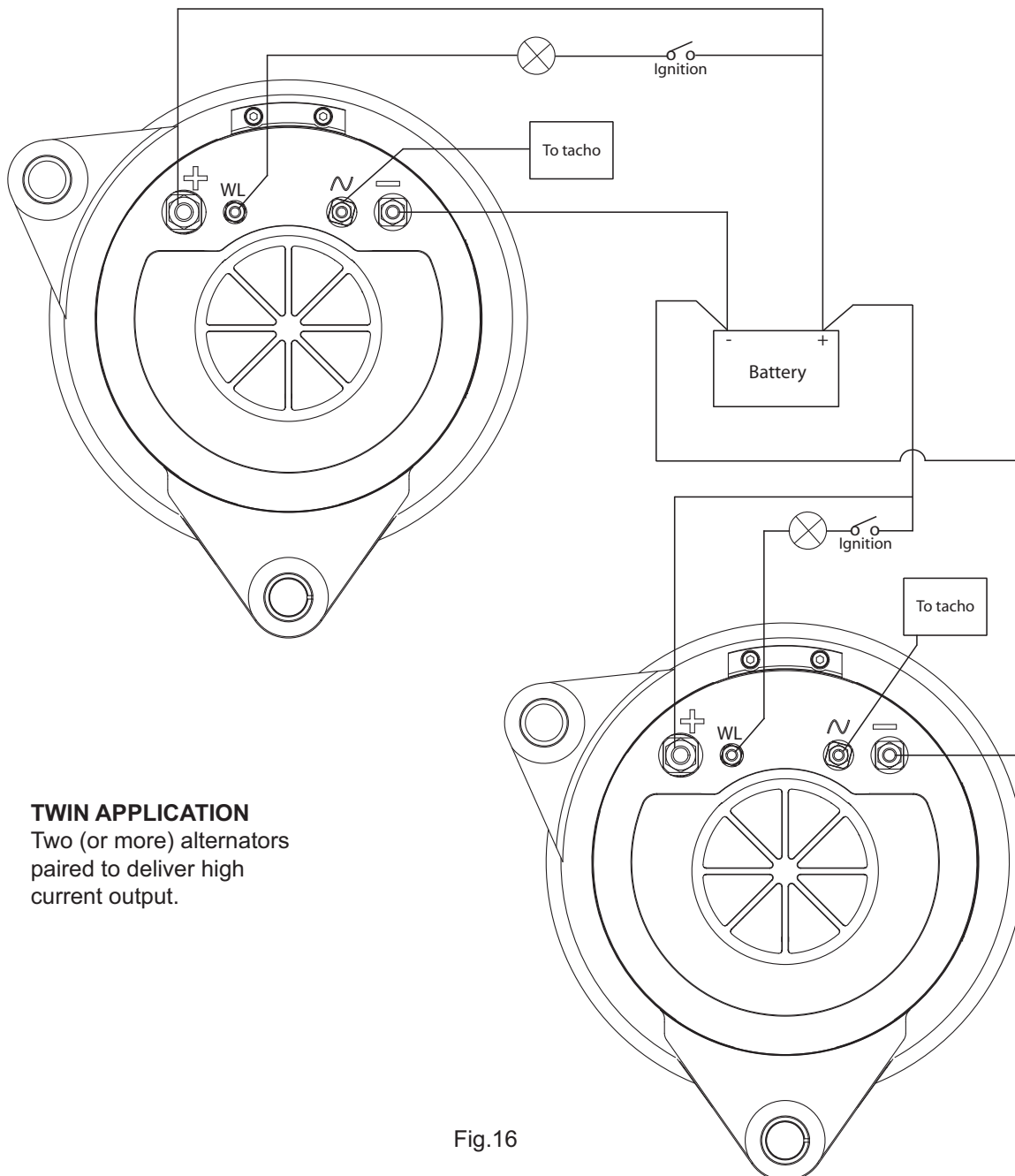
BATTERYLESS

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 .

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

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.

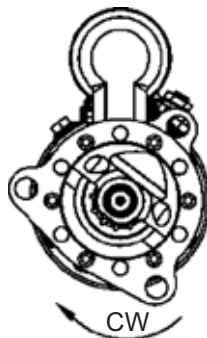


Fig.7



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)

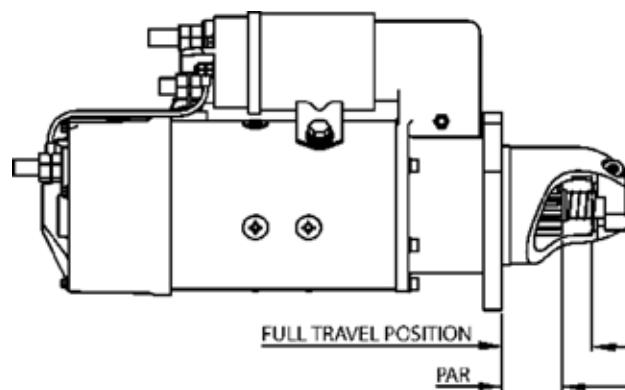


Fig.9

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°

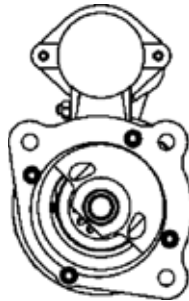


Fig.10



Fig.11

SAE3

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

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.

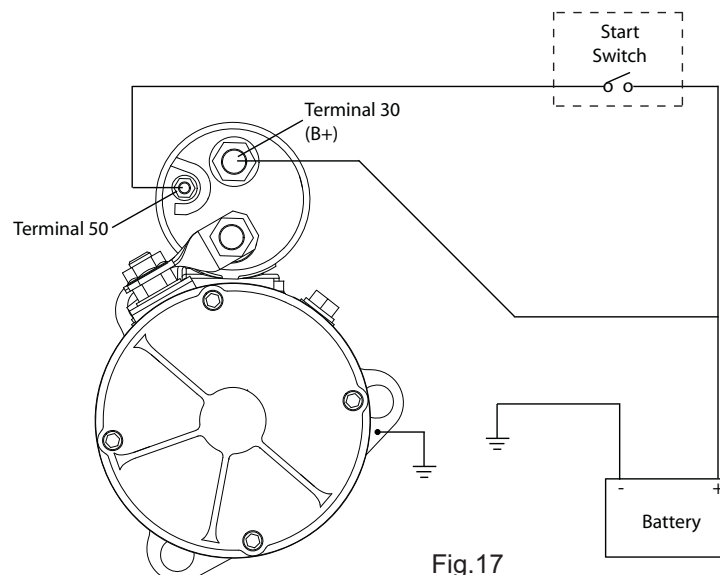


Fig.17

STARTER MOTOR WIRING DIAGRAMS CONTINUED...

INSULATED RETURN

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

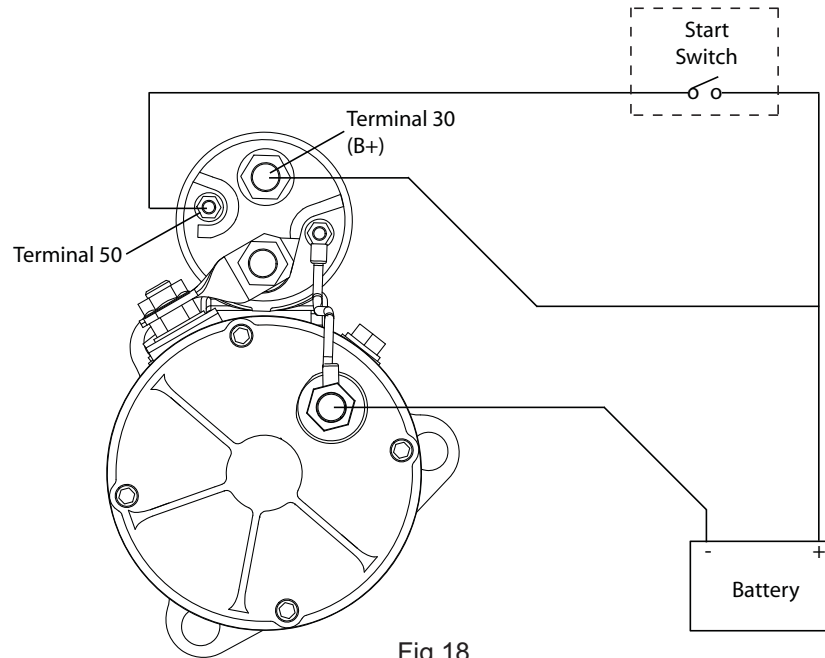


Fig.18

AUXILIARY SOLENOID

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

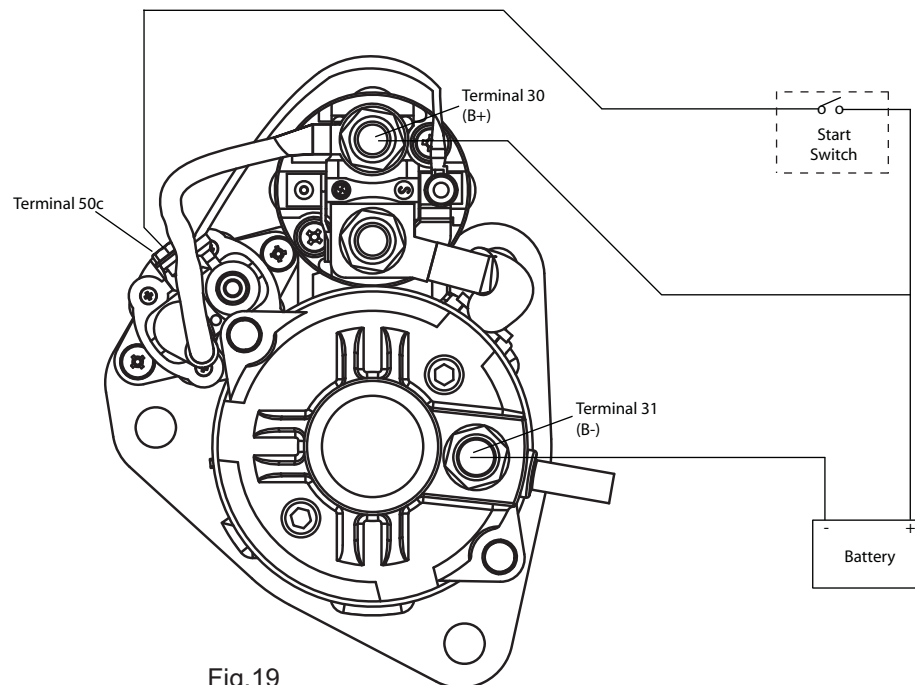


Fig.19

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.

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 ringgear 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.



REFRIGERATION APPLICATION GUIDE

ALTERNATORS



OUTPUT
V / A

NOTES / NOTAS

CARRIER TRANSICOLD





Alternators

> ENGINES

Various Models	80 >>	Mercedes OM636 Diesel	110-629	12V / 37A	
Various Models	80 >>	Perkins 4.108 Diesel	110-629	12V / 37A	
Various Models	All	Kubota CT2-29 (D482) Diesel	110-610RM	12V / 37A	
Various Models	All	CT4-91-TV 1.5L Diesel	110-611RM	12V / 65A	
Various Models	All	Kubota CT4-114 (V1902) Diesel	110-629	12V / 37A	
Various Models	All	Kubota CT4-114 (V1902) Diesel	110-527	12V / 51A	
Various Models	All	Kubota CT4-114 (V1902) Diesel	110-612RM	12V / 65A	Motorola 65A
Various Models	All	Kubota CT4-114 (V1902-DI) Diesel	110-629	12V / 37A	
Various Models	All	Kubota CT4-114 (V1902-DI) Diesel	110-527	12V / 51A	
Various Models	All	Kubota CT4-114 (V1902-DI) Diesel	110-612RM	12V / 65A	
Various Models	All	Kubota CT4-114-TV (V1902-TV) Diesel	110-607RM	12V / 65A	6203 DE Bearing
Various Models	All	Kubota CT4-114-TV (V1902-TV) Diesel	110-609RM	12V / 65A	6303 DE Bearing
Various Models	All	Kubota CT4-134 (V2203) Diesel	110-629	12V / 37A	
Various Models	All	Kubota CT4-134 (V2203-DI) Diesel	110-629	12V / 37A	
Various Models	All	Kubota CT4-134 (V2203-DI) Diesel	110-527	12V / 51A	Motorola 51A (Ext. Reg.)
Various Models	All	Kubota CT4-134 (V2203-DI) Diesel	110-647	12V / 51A	Motorola 51A (Int. Reg.)
Various Models	All	Kubota CT4-134 (V2203-DI) Diesel	110-607RM	12V / 65A	6203 DE Bearing
Various Models	All	Kubota CT4-134 (V2203-DI) Diesel	110-609RM	12V / 65A	6303 DE Bearing
Various Models	All	Kubota CT4-134 (V2203-DI) Diesel	110-612RM	12V / 65A	Motorola 65A (Int. Reg.)
Various Models	All	Kubota CT4-134 (V2203-DI) Diesel	110-608RM	12V / 105A	
Various Models	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-629	12V / 37A	
Various Models	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-527	12V / 51A	Motorola 51A (Ext. Reg.)
Various Models	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-647	12V / 51A	Motorola 51A (Int. Reg.)
Various Models	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-607RM	12V / 65A	Motorola 65A (6203 DE Bearing)
Various Models	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-609RM	12V / 65A	Motorola 65A (6303 DE Bearing)
Various Models	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-611RM	12V / 65A	Motorola 65A Alternator
Various Models	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-612RM	12V / 65A	Motorola 65A Alternator

> GENERATOR SETS

69GC15	All	Kubota CT4-134 (V2203-DI) Diesel	110-612RM	12V / 65A	
69GC15	All	Kubota CT4-114 (V1902) Diesel	110-629	12V / 37A	

				OUTPUT V / A	NOTES / NOTAS
69GC15	All	Kubota CT4-114 (V1902) Diesel	110-612RM	12V / 65A	
RG15	All	Kubota CT4-134 (V2203-DI) Diesel	110-612RM	12V / 65A	
UG15	All	Kubota CT4-134 (V2203-DI) Diesel	110-612RM	12V / 65A	
> HEATING UNITS					
Solara	All	Kubota CT2-29 (D482) Diesel	110-610RM	12V / 37A	
> TRAILER UNITS					
Eagle Plus	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-629	12V / 37A	
Eagle Plus	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-527	12V / 51A	Motorola 51A (Ext. Reg.)
Eagle Plus	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-647	12V / 51A	Motorola 51A (Int. Reg.)
Eagle Plus	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-612RM	12V / 65A	
Eagle Plus	All	Kubota CT4-134 (V2203-DI) Diesel	110-629	12V / 37A	
Eagle Plus	All	Kubota CT4-134 (V2203-DI) Diesel	110-527	12V / 51A	Motorola 51A (Ext. Reg.)
Eagle Plus	All	Kubota CT4-134 (V2203-DI) Diesel	110-647	12V / 51A	Motorola 51A (Int. Reg.)
Eagle Plus	All	Kubota CT4-134 (V2203-DI) Diesel	110-612RM	12V / 65A	
Eagle Plus	All	Kubota CT4-134 (V2203) Diesel	110-629	12V / 37A	
Eagle Plus	All	Kubota CT4-114 (V1902-DI) Diesel	110-629	12V / 37A	
Eagle Plus	All	Kubota CT4-114 (V1902-DI) Diesel	110-527	12V / 51A	
Eagle Plus	All	Kubota CT4-114 (V1902-DI) Diesel	110-612RM	12V / 65A	
Eagle Plus	All	Kubota CT4-114 (V1902) Diesel	110-629	12V / 37A	
Eagle Plus	All	Kubota CT4-114 (V1902) Diesel	110-527	12V / 51A	
Eagle Plus	All	Kubota CT4-114 (V1902) Diesel	110-612RM	12V / 65A	
Europhoenix	All	Kubota CT4-114 (V1902) Diesel	110-611RM	12V / 65A	
Extra	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-607RM	12V / 65A	
Extra	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-609RM	12V / 65A	
Extra	All	Kubota CT4-114-TV (V1902-TV) Diesel	110-607RM	12V / 65A	
Extra	All	Kubota CT4-114-TV (V1902-TV) Diesel	110-609RM	12V / 65A	
Genesis TM900	All	Kubota CT4-134 (V2203-DI) Diesel	110-607RM	12V / 65A	6203 DE Bearing
Genesis TM900	All	Kubota CT4-134 (V2203-DI) Diesel	110-609RM	12V / 65A	6303 DE Bearing
Genesis TM900	All	Kubota CT4-134 (V2203-DI) Diesel	110-608RM	12V / 105A	
Genesis TM1000	All	Kubota CT4-134 (V2203-DI) Diesel	110-607RM	12V / 65A	6203 DE Bearing
Genesis TM1000	All	Kubota CT4-134 (V2203-DI) Diesel	110-609RM	12V / 65A	6303 DE Bearing
Genesis TM1000	All	Kubota CT4-134 (V2203-DI) Diesel	110-608RM	12V / 105A	

Alternators

REFRIGERATION APPLICATION GUIDE

ALTERNATORS



OUTPUT
V / A






NOTES / NOTAS

CARRIER TRANSICOLD

> TRAILER UNITS

Alternators

Genesis TR100	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-607RM	12V / 65A	6203 DE Bearing
Genesis TR100	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-609RM	12V / 65A	6303 DE Bearing
NDB40	All	Perkins 4.108 Diesel	110-629	12V / 37A	
NDE40	All	Perkins 4.108 Diesel	110-629	12V / 37A	
NDF40	All	Kubota CT4-114 (V1902) Diesel	110-629	12V / 37A	
NDJ40	All	Kubota CT4-114 (V1902) Diesel	110-629	12V / 37A	
NDJ40	All	Perkins 4.108 Diesel	110-629	12V / 37A	
NDS40	All	Kubota CT4-114 (V1902) Diesel	110-527	12V / 51A	
NDS40	All	Perkins 4.108 Diesel	110-629	12V / 37A	
NDT40	All	Perkins 4.108 Diesel	110-629	12V / 37A	
Optima	All	CT4-91-TV 1.5L Diesel	110-611RM	12V / 65A	Motorola 65A Alternator
Phoenix Advantage	All		110-629	12V / 37A	
Phoenix Advantage	All		110-527	12V / 51A	
Phoenix Advantage	All		110-612RM	12V / 65A	Motorola 65A Alternator
Phoenix Ultra	All	Kubota CT4-134 (V2203-DI) Diesel	110-608RM	12V / 105A	
Phoenix Ultra	All	Kubota CT4-134-TV (V2203-TV) Diesel	110-611RM	12V / 65A	Motorola 65A Alternator
Phoenix Ultra XL	All	Kubota CT4-134 (V2203-DI) Diesel	110-607RM	12V / 65A	Models NDA93M, 94M (Small Brg)
Phoenix Ultra XL	All	Kubota CT4-134 (V2203-DI) Diesel	110-609RM	12V / 65A	Models NDA93M, 94M (Large Brg)
Phoenix Ultra XL	All	Kubota CT4-134 (V2203-DI) Diesel	110-611RM	12V / 65A	Motorola 65A Alternator
Thunderbird	All	Kubota CT4-114 (V1902) Diesel	110-629	12V / 37A	
Thunderbird	All	Kubota CT4-114 (V1902) Diesel	110-527	12V / 51A	
Thunderbird	All	Kubota CT4-114 (V1902) Diesel	110-612RM	12V / 65A	
Thunderbird	All	Kubota CT4-114 (V1902-DI) Diesel	110-629	12V / 37A	
Thunderbird	All	Kubota CT4-114 (V1902-DI) Diesel	110-527	12V / 51A	
Thunderbird	All	Kubota CT4-114 (V1902-DI) Diesel	110-612RM	12V / 65A	
UDE Series	All	Kubota CT4-114 (V1902) Diesel	110-629	12V / 37A	
UDE Series	All	Mercedes OM636 Diesel	110-629	12V / 37A	
UDE Series	All	Perkins 4.108 Diesel	110-629	12V / 37A	
UDG Series	All	Kubota CT4-114 (V1902) Diesel	110-629	12V / 37A	
UDG Series	All	Kubota CT4-114 (V1902) Diesel	110-527	12V / 51A	
UDG Series	All	Mercedes OM636 Diesel	110-629	12V / 37A	
Ultima 53	All	Kubota CT4-134 (V2203-DI) Diesel	110-607RM	12V / 65A	6203 DE Bearing

 AC 				OUTPUT V / A	NOTES / NOTAS
Ultima 53	All	Kubota CT4-134 (V2203-DI) Diesel	110-609RM	12V / 65A	6303 DE Bearing
> TRUCK UNITS					
Silverhawk Magnum	All	Kubota CT3-52 (ZB600) Diesel	110-629	12V / 37A	
Silverhawk Plus	All	Kubota CT3-52 (ZB600) Diesel	110-629	12V / 37A	
TDB	All	Kubota CT3-52 (ZB600) Diesel	110-629	12V / 37A	
TDS	All	Kubota CT3-52 (ZB600) Diesel	110-629	12V / 37A	
THERMO KING					
> BATTERYLESS SYSTEMS					
Bus A/C Units		With 24V Electrical Systems	110-575	24V / 150A	24V Excitation
Bus A/C Units		With 12V Electrical Systems	110-576	24V / 150A	12V Excitation
Bus A/C Units		With 12V Electrical Systems	110-555JHO	12V / 160A	
> TRAILER UNITS					
HK, HK-II, HK-III	92 >>	TK 2.49 Diesel	110-581	12V / 23A	
HK, HK-II, HK-III	92 >>	TK 2.49 Diesel	110-600	12V / 65A	
HK-30	80-88	TK 2.44 Diesel	110-699	12V / 37A	
HK-30	89 >>	TK 2.44 Diesel	110-699	12V / 37A	
HK-30	80-88	TK 2.44 Diesel	110-600	12V / 65A	
HK-30	89 >>	TK 2.44 Diesel	110-600	12V / 65A	
HK-60	80-88	TK 2.44 Diesel	110-699	12V / 37A	
HK-60	89 >>	TK 2.44 Diesel	110-699	12V / 37A	
HK-60	80-88	TK 2.44 Diesel	110-600	12V / 65A	
HK-60	89 >>	TK 2.44 Diesel	110-600	12V / 65A	
HK-100	80-88	TK 2.44 Diesel	110-699	12V / 37A	
HK-100	89 >>	TK 2.44 Diesel	110-699	12V / 37A	
HK-100	80-88	TK 2.44 Diesel	110-600	12V / 65A	
HK-100	89 >>	TK 2.44 Diesel	110-600	12V / 65A	
LND 30	83 >>	Yanmar 353 (TK 3.53) Diesel	110-159	12V / 37A	
LND 30	83 >>	Yanmar 353 (TK 3.53) Diesel	110-543	12V / 51A	
LND 50	91 >>	Yanmar 353 (TK 3.53) Diesel	66021606	12V / 65A	
SB-190	99 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-200	99 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-210	99 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-300	99 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-310	99 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-I	74-81	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-543	12V / 51A	Motorola 37A / 51A
SB-II	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-543	12V / 51A	

REFRIGERATION APPLICATION GUIDE

ALTERNATORS



OUTPUT
V / A





NOTES / NOTAS

THERMO KING

> TRAILER UNITS

Alternators

SB-II	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-159	12V / 37A	
SB-II	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-543	12V / 51A	
SB-II	80 >>	Isuzu 2.0L (TK C201) Diesel	110-159	12V / 37A	
SB-II	80 >>	Isuzu 2.0L (TK C201) Diesel	110-543	12V / 51A	
SB-II	84 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-699	12V / 37A	
SB-II	84 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-600	12V / 65A	
SB-II	84 >>	Isuzu 2.0L (TK C201) Diesel	110-699	12V / 37A	
SB-II	84 >>	Isuzu 2.0L (TK C201) Diesel	110-600	12V / 65A	
SB-II	89 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-699	12V / 37A	
SB-II	89 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-600	12V / 65A	
SB-II	89 >>	Isuzu 2.0L (TK C201) Diesel	110-699	12V / 37A	
SB-II	89 >>	Isuzu 2.0L (TK C201) Diesel	110-600	12V / 65A	
SB-II	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-II	91 >>	Isuzu 2.0L (TK C201) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-II MAX	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-II SR	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-II SR	98 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-III	80-89	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-543	12V / 51A	
SB-III	80-89	Isuzu 2.0L (TK C201) Diesel	110-543	12V / 51A	
SB-III	90 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-581	12V / 23A	
SB-III	90 >>	Isuzu 2.0L (TK C201) Diesel	110-581	12V / 23A	
SB-III MAX	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-III MAX	91 >>	Isuzu 2.0L (TK C201) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-III SR	93 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SB-III SR	99 >>	Yanmar 486 (TK 4.86) Diesel	20140111	12V / 120A	
SB-III SR	99 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SDZ	91 >>	Kubota Z400 Diesel	66021606	12V / 65A	Bosch 37A / 65A
SDZ	91 >>		66021606	12V / 65A	Bosch 37A / 65A
Sentry	85 >>	Isuzu 2.0L (TK C201) Diesel	110-159	12V / 37A	
Sentry	85 >>	Isuzu 2.0L (TK C201) Diesel	110-543	12V / 51A	
Sentry	89 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-581	12V / 23A	
Sentry	85 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-159	12V / 37A	
Sentry	85 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-543	12V / 51A	
Sentry	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	Bosch 37A / 65A

				OUTPUT V / A	NOTES / NOTAS
Sentry	89 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-600	12V / 65A	Motorola 65A (Int. Reg.)
SL100	96 >>	Yanmar 482 / 486 (TK 4.82 / 4.86)	66021606	12V / 65A	Bosch 37A / 65A
SL100e	02 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SL200	96 >>	Yanmar 482 / 486 (TK 4.82 / 4.86)	66021606	12V / 65A	Bosch 37A / 65A
SL200e	02 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SL300	96 >>	Yanmar 482 / 486 (TK 4.82 / 4.86)	66021606	12V / 65A	Bosch 37A / 65A
SL400	96 >>	Yanmar 482 / 486 (TK 4.82 / 4.86)	66021606	12V / 65A	Bosch 37A / 65A
SL400 SR2	02 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SL400e	02 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
SMX	91 >>		66021606	12V / 65A	Bosch 37A / 65A
SMX II	91 >>		66021606	12V / 65A	Bosch 37A / 65A
SMX SR	91 >>		66021606	12V / 65A	Bosch 37A / 65A
SNWD	74 >>		110-159	12V / 37A	
SNWD	74 >>		110-543	12V / 51A	
Super II	83 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-699	12V / 37A	
Super II	83 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-600	12V / 65A	
Super II	83 >>	Isuzu 2.0L (TK C201) Diesel	110-699	12V / 37A	
Super II	83 >>	Isuzu 2.0L (TK C201) Diesel	110-600	12V / 65A	
Super II	89 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-699	12V / 37A	
Super II	89 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-600	12V / 65A	
Super II	89 >>	Isuzu 2.0L (TK C201) Diesel	110-699	12V / 37A	
Super II	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	Bosch 37A / 65A
Super II MAX	89 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-581	12V / 23A	
Super II MAX	89 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-699	12V / 37A	
Super II MAX	89 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-600	12V / 65A	
Super II SR	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	
Super II SR	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	
Super II TC	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	66021606	12V / 65A	Bosch 37A / 65A
Super II TC	99 >>	Yanmar 486 (TK 4.86) Diesel	20140111	12V / 120A	
Super II TC	99 >>	Yanmar 486 (TK 4.86) Diesel	66021606	12V / 65A	Bosch 37A / 65A
Super NWD	84 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-159	12V / 37A	
Super NWD	84 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-543	12V / 51A	Motorola 37A / 51A
Super NWD	84 >>	Isuzu 2.0L (TK C201) Diesel	110-159	12V / 37A	
Super NWD	84 >>	Isuzu 2.0L (TK C201) Diesel	110-543	12V / 51A	Motorola 37A / 51A
TD-I	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-159	12V / 37A	
TD-I	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-543	12V / 51A	

Alternators

REFRIGERATION APPLICATION GUIDE

ALTERNATORS



OUTPUT
V / A

NOTES / NOTAS

THERMO KING





> TRAILER UNITS

TD-II	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-159	12V / 37A	
TD-II	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	110-543	12V / 51A	
TD-II	89 >>	Yanmar 388 (TK 3.88) Diesel	110-581	12V / 23A	
TD-II	89 >>	Yanmar 388 (TK 3.88) Diesel	110-600	12V / 65A	
URD	96 >>	Yanmar 353 (TK 3.53) Diesel	110-521	12V / 72A	
URD	96 >>	Yanmar 353 (TK 3.53) Diesel	66021624	12V / 90A	Bosch 90A Alt
URD	96 >>	Yanmar 353 (TK 3.53) Diesel	110-639RM	12V / 90A	Motorola 90A Alt
URD-III MAX	96 >>	Yanmar 395 (TK 3.95) Diesel	110-639RM	12V / 90A	

> TRUCK UNITS

KD-I	78 >>	Yanmar 235 (TK 2.35) Diesel	110-159	12V / 37A	
KD-I	78 >>	Yanmar 235 (TK 2.35) Diesel	110-543	12V / 51A	
KD-II	89 >>	Yanmar 366 (TK 3.66) Diesel	110-581	12V / 23A	
KD-II MAX	89 >>	Yanmar 366 (TK 3.66) Diesel	110-581	12V / 23A	
KD-II SR	89 >>	Yanmar 374 (TK 3.74) Diesel	110-581	12V / 23A	
MD-200		Yanmar 374 (TK 3.74) Diesel	110-581	12V / 23A	
MD-200-MT		Yanmar 374 (TK 3.74) Diesel	110-581	12V / 23A	
MD-300		Yanmar 374 (TK 3.74) Diesel	110-581	12V / 23A	
MD-I	83 >>	Yanmar 235 (TK 2.35) Diesel	110-159	12V / 37A	
MD-I	83 >>	Yanmar 235 (TK 2.35) Diesel	110-543	12V / 51A	
MD-II	89 >>	Yanmar 366 (TK 3.66) Diesel	110-581	12V / 23A	
MD-II MAX	89 >>	Yanmar 374 (TK 3.74) Diesel	110-581	12V / 23A	
MD-II MAX SR	89 >>	Yanmar 374 (TK 3.74) Diesel	110-581	12V / 23A	
MD-II SR	89 >>	Yanmar 374 (TK 3.74) Diesel	110-581	12V / 23A	
MD-II TCI	89 >>	Yanmar 366 (TK 3.66) Diesel	110-581	12V / 23A	
MD-II TCI	89 >>	Yanmar 366 (TK 3.66) Diesel	110-699	12V / 37A	
MD-II TCI	89 >>	Yanmar 366 (TK 3.66) Diesel	110-636RM	12V / 65A	
NWD Series	74 >>	Isuzu 2.0L (TK C201) Diesel	110-159	12V / 37A	
NWD Series	74 >>	Isuzu 2.0L (TK C201) Diesel	110-543	12V / 51A	Motorola 37A / 51A
RD-I	80 >>	Yanmar 235 (TK 2.35) Diesel	110-159	12V / 37A	
RD-I	80 >>	Yanmar 235 (TK 2.35) Diesel	110-543	12V / 51A	
RD-II	92 >>	Yanmar 388 (TK 3.88) Diesel	110-581	12V / 23A	
RD-II	92 >>	Yanmar 388 (TK 3.88) Diesel	110-699	12V / 37A	
RD-II	92 >>	Yanmar 388 (TK 3.88) Diesel	110-600	12V / 65A	
RD-II MAX	92 >>	Yanmar 388 (TK 3.88) Diesel	110-581	12V / 23A	

Alternators

				OUTPUT V / A	NOTES / NOTAS
RD-II MAX	92 >>	Yanmar 388 (TK 3.88) Diesel	110-699	12V / 37A	
RD-II MAX	92 >>	Yanmar 388 (TK 3.88) Diesel	110-600	12V / 65A	
RD-II MAX SR	92 >>	Yanmar 388 (TK 3.88) Diesel	110-581	12V / 23A	
RD-II MAX SR	92 >>	Yanmar 388 (TK 3.88) Diesel	110-699	12V / 37A	
RD-II MAX SR	92 >>	Yanmar 388 (TK 3.88) Diesel	110-600	12V / 65A	
RD-II TCI	92 >>	Yanmar 388 (TK 3.88) Diesel	110-699	12V / 37A	
RD-II TCI-Z			110-699	12V / 37A	
RD-II TCI-Z			110-600	12V / 65A	
RD-II TCI-Z			66021624	12V / 90A	
RD-II TLE	96 >>	Yanmar 395 (TK 3.95) Diesel	110-699	12V / 37A	
RD-II TLE	96 >>	Yanmar 395 (TK 3.95) Diesel	110-638RM	12V / 90A	
TS Spectrum	02 >>	TK 3.76 Diesel	110-638RM	12V / 90A	
TS-200	00 >>	Yanmar 374 (TK 3.74) Diesel	110-581	12V / 23A	
TS-200	00 >>	Yanmar 374 (TK 3.74) Diesel	110-635RM	12V / 37A	
TS-300	00 >>	Yanmar 374 (TK 3.74) Diesel	110-581	12V / 23A	
TS-300	00 >>	Yanmar 374 (TK 3.74) Diesel	110-635RM	12V / 37A	
TS-500	00 >>	Yanmar 395 (TK 3.95) Diesel	110-581	12V / 23A	
TS-500	00 >>	Yanmar 395 (TK 3.95) Diesel	110-635RM	12V / 37A	
TS-600	00 >>	Yanmar 395 (TK 3.95) Diesel	110-581	12V / 23A	
TS-600	00 >>	Yanmar 395 (TK 3.95) Diesel	110-635RM	12V / 37A	
UTS		Yanmar 395 (TK 3.95) Diesel	110-639RM	12V / 90A	
XDS	99 >>		110-581	12V / 23A	
ZANOTTI					
> TRAILER UNIT					
T620	All	Lombardini	20110326	12V / 65A	

Alternators








REFRIGERATION BUYER'S GUIDE

ALTERNATORS



Alternator Buyer's Guide

20110326	12V	65A	ER	17mm	Clockwise	4K, 59.7mm	APPLICATION
							ZANOTTI > TRAILER UNIT - T620
20140111	12V	120A	IR	17mm	Clockwise	None	APPLICATION
							THERMO KING > TRAILER UNIT - SB-III SR, Super II TC
66021606	12V	65A	IR	17mm	Bi-directional	None	APPLICATION
							THERMO KING > TRAILER UNIT - LND 50, SB, SB-II, SB-III, SDZ, Sentry, SL, SMX, Super II Series
66021624	12V	90A	IR	17mm	Bi-directional	None	APPLICATION
							THERMO KING > TRAILER UNIT - URD > TRUCK UNIT - RD-II TCI-Z
110-159	12V	37A	IR	5/8"	Clockwise	None	APPLICATION
							THERMO KING > TRAILER UNIT - LND 30, SB-II, Sentry, SNWD, Super NWD, TD-I, TD-II > TRUCK UNIT - KD-I, MD-I, RD-I & NWD Series

110-521	12V	72A	IR	5/8"	Bi-directional	None	APPLICATION
							THERMO KING > TRAILER UNIT - URD
110-527	12V	51A	IR	5/8"	Bi-directional (No fan supplied)	None	APPLICATION
							CARRIER TRANSICOLD > ENGINES - Various Models > TRAILER UNIT - Eagle Plus, NDS40, Phoenix Advantage, Thunderbird, UDG Series
110-543	12V	51A	IR	5/8"	Clockwise	None	APPLICATION
							THERMO KING > TRAILER UNIT - LND 30, SB-I, SB-II, SB-III, Sentry, SNWD, Super NWD, TD-I, TD-II > TRUCK UNIT - KD-I, MD-I, RD-I & NWD Series
110-555JHO	12V	160A	IR	7/8"	Clockwise	None	APPLICATION
							THERMO KING > BATTERYLESS SYSTEMS - Bus A/C Units
110-575	24V	150A	IR	7/8"	Clockwise	None	APPLICATION
							THERMO KING > BATTERYLESS SYSTEMS - Bus A/C Units






REFRIGERATION BUYER'S GUIDE

ALTERNATORS



Alternator Buyer's Guide

110-576	24V	150A	IR	7/8"	Clockwise	None	APPLICATION
							THERMO KING > BATTERYLESS SYSTEMS - Bus A/C Units
110-581	12V	23A	IR	5/8"	Bi-directional	None	APPLICATION
							THERMO KING > TRAILER UNIT - HK, HK-II, HK-III, SB-III, Sentry, Super II MAX, TD-II > TRUCK UNIT - KD-II / SR / MAX, MD-200 / MT, MD-300, MD-II / MAX / MAX SR / SR / TCI, RD-II / MAX / MAX SR, TS-200 / 300 / 500 / 600, XDS
110-600	12V	65A	IR	5/8"	Clockwise	None	APPLICATION
							THERMO KING > TRAILER UNIT - HK, HK-II, HK-III, HK-30 / 60 / 100, SB-II, Sentry, Super II / MAX, TD-II > TRUCK UNIT - RD-II / MAX / MAX SR / TCI-Z
110-607RM	12V	65A	IR	5/8"	Counter Clockwise	None	APPLICATION
							CARRIER TRANSICOLD > ENGINES - Various Models > TRAILER UNIT - Extra, Genesis TM900 / TM 1000 / TR100, Phoenix Ultra XL, Optima 53
110-608RM	12V	105A	IR	5/8"	Counter Clockwise	None	APPLICATION
							CARRIER TRANSICOLD > ENGINES - Various Models > TRAILER UNIT - Genesis TM900 / TM1000, Phoenix Ultra

110-609RM	12V	65A	IR	5/8"	Clockwise	None	APPLICATION
							CARRIER TRANSICOLD > ENGINES - Various Models > TRAILER UNIT - Extra, Genesis TM900 / TM1000/ TR100, Phoenix Ultra XL, Ultima 53
110-610RM	12V	37A	IR	5/8"	Clockwise	None	APPLICATION
							CARRIER TRANSICOLD > ENGINES - Various Models > HEATING UNIT - Solara
110-611RM	12V	65A	IR	5/8"	Bi-directional (No fan supplied)	None	APPLICATION
							CARRIER TRANSICOLD > ENGINES - Various Models > TRAILER UNIT - Europhoenix, Optima, Phoenix Ultra / XL
110-612RM	12V	65A	IR	5/8"	Bi-directional	None	APPLICATION
							CARRIER TRANSICOLD > ENGINES - Various Models > GENERATOR SET - 69GC15, RG15, UG15 > TRAILER UNIT - Eagle Plus, Phoenix Advantage, Thunderbird
110-629	12V	37A	IR	5/8"	Clockwise	None	APPLICATION
							CARRIER TRANSICOLD > ENGINES - Various Models > GENERATOR SET - 69GC15 > TRAILER UNIT - Eagle Plus, NDB40, NDE40, NDF40, NDJ40, NDS40, NDT40, Phoenix Advantage, Thunderbird, UDE, UDG Series > TRUCK UNIT - Silverhawk Magnum / Plus, TDB, TDS


REFRIGERATION BUYER'S GUIDE

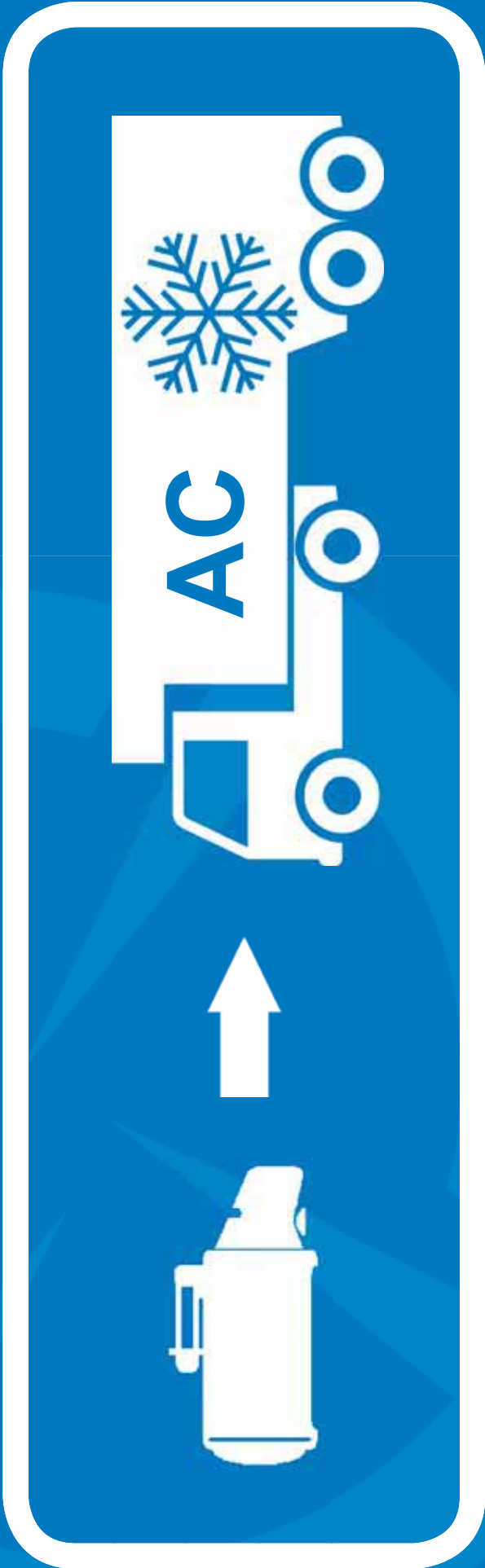
ALTERNATORS



Alternator Buyer's Guide

110-635RM	12V	37A	IR	5/8"	Clockwise	None	APPLICATION
							THERMO KING > TRUCK UNIT - TS-200 / 300 / 500 / 600
110-636RM	12V	65A	IR	5/8"	Clockwise	None	APPLICATION
							THERMO KING > TRUCK UNIT - MD-II TCI
110-638RM	12V	90A	IR	5/8"	Bi-directional	None	APPLICATION
							THERMO KING > TRUCK UNIT - RD-II TLE, TS Spectrum
110-639RM	12V	90A	IR	5/8"	Bi-directional	None	APPLICATION
							THERMO KING > TRAILER UNIT - URD, URD-III MAX > TRUCK UNIT - UTS
110-647	12V	51A	IR	5/8"	Clockwise	None	APPLICATION
							CARRIER TRANSICOLD > ENGINES - Various Models > TRAILER UNIT - Eagle Plus

110-699	12V	37A	IR	5/8"	Clockwise	None	APPLICATION
							<p>THERMO KING</p> <ul style="list-style-type: none"> > TRAILER UNIT - HK-30 / 60 / 100, SB-II, Super II / MAX > TRUCK UNIT - MD-II TCI, RD-II / MAX / MAX SR / TCI/ TCI-Z / TLE



REFRIGERATION APPLICATION GUIDE

STARTER MOTORS



OUTPUT
V / kW

NOTES / NOTAS

CARRIER TRANSICOLD

> ENGINES

Various Models	All	CT4-91-TV 1.5L Diesel	20513059	12V / 1.4kW	Denso 1.2kW / 1.4kW
----------------	-----	-----------------------	----------	-------------	---------------------

> TRAILER UNITS

Maxima	All	CT4-91-TV 1.5L Diesel	20513059	12V / 1.4kW	
Optima	All	CT4-91-TV 1.5L Diesel	20513059	12V / 1.4kW	

THERMO KING

> ENGINES

Various Models	71 >>	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	Hitachi System
Various Models	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
Various Models	89 >>	Yanmar 366 (TK 3.66) Diesel	20513587	12V / 1.4kW	
Various Models	89 >>	Yanmar 374 (TK 3.74) Diesel	20513032	12V / 2.0kW	
Various Models	89 >>	Yanmar 388 (TK 3.88) Diesel	20513587	12V / 1.4kW	
Various Models	96 >>	Yanmar 395 (TK 3.95) Diesel	20513032	12V / 2.0kW	
Various Models	96 >>	Yanmar 482 (TK 4.82) Diesel	20513057	12V / 2.0kW	
Various Models	96 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
Various Models	99 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	

> GENERATOR SETS

CGCM	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
CGCO	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
CGEO	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
CG-II	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
CG-II M12	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
CG-II M12	All	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	
CG-II M20	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
CG-II M20	All	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	
CG-II M22	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
CG-II M22	All	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	
CG-II M30	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
CG-II M30	All	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	
CGSM	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SGCM	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SGCO	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SGSM	All	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	

Starter Motors



THERMO KING					
> TRAILER UNITS					
Model	Year	Engine	Part No.	Output	Notes
LND II 50	93 >>	Yanmar 388 (TK 3.88) Diesel	20513587	12V / 1.4kW	
SB-190	99 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SB-200	99 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
SB-210	99 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
SB-300	99 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
SB-310	99 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
SB-I	74-81	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SB-II	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SB-II	80 >>	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	Hitachi System
SB-II MAX	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SB-II SR	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SB-II SR	98 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
SB-III	80-89	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	
SB-III	90 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SB-III MAX	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SB-III MAX	91 >>	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	
SB-III SR	93 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SB-III SR	99 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
Sentry	85 >>	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	Hitachi System
Sentry	85 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
SL100	96 >>	Yanmar 482 / 486 (TK 4.82 / 4.86)	20513057	12V / 2.0kW	
SL100e	02 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
SL200	96 >>	Yanmar 482 / 486 (TK 4.82 / 4.86)	20513057	12V / 2.0kW	
SL200e	02 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
SL300	96 >>	Yanmar 482 / 486 (TK 4.82 / 4.86)	20513057	12V / 2.0kW	
SL400	96 >>	Yanmar 482 / 486 (TK 4.82 / 4.86)	20513057	12V / 2.0kW	
SL400 SR2	02 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
SL400e	02 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
SMX	91 >>		20513052	12V / 2.0kW	
SMX II	91 >>		20513052	12V / 2.0kW	
SMX SR	91 >>		20513052	12V / 2.0kW	
SNWD	74 >>		20513075	12V / 2.0kW	
Spectrum SB	01 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	

Starter Motors

REFRIGERATION APPLICATION GUIDE

STARTER MOTORS



OUTPUT
V / kW

NOTES / NOTAS

THERMO KING





> TRAILER UNITS

Spectrum SL	01 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
Super II	83 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
Super II	83 >>	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	
Super II MAX	89 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
Super II SR	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
Super II TC	91 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
Super II TC	99 >>	Yanmar 486 (TK 4.86) Diesel	20513057	12V / 2.0kW	
Super NWD	84 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
Super NWD	84 >>	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	
TD-I	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
TD-II	80 >>	Isuzu 2.2L (TK DI2.2, -SE) Diesel	20513052	12V / 2.0kW	
TD-II	89 >>	Yanmar 388 (TK 3.88) Diesel	20513587	12V / 1.4kW	
URD-III MAX	96 >>	Yanmar 395 (TK 3.95) Diesel	20513032	12V / 2.0kW	

> TRUCK UNITS

KD-II	89 >>	Yanmar 366 (TK 3.66) Diesel	20513587	12V / 1.4kW	
KD-II MAX	89 >>	Yanmar 366 (TK 3.66) Diesel	20513587	12V / 1.4kW	
KD-II SR	89 >>	Yanmar 374 (TK 3.74) Diesel	20513032	12V / 2.0kW	
MD-200		Yanmar 374 (TK 3.74) Diesel	20513032	12V / 2.0kW	
MD-200-MT		Yanmar 374 (TK 3.74) Diesel	20513032	12V / 2.0kW	
MD-300		Yanmar 374 (TK 3.74) Diesel	20513032	12V / 2.0kW	
MD-II	89 >>	Yanmar 366 (TK 3.66) Diesel	20513587	12V / 1.4kW	
MD-II MAX	89 >>	Yanmar 374 (TK 3.74) Diesel	20513032	12V / 2.0kW	
MD-II MAX SR	89 >>	Yanmar 374 (TK 3.74) Diesel	20513032	12V / 2.0kW	
MD-II SR	89 >>	Yanmar 374 (TK 3.74) Diesel	20513032	12V / 2.0kW	
MD-II TCI	89 >>	Yanmar 366 (TK 3.66) Diesel	20513587	12V / 1.4kW	
NWD Series	74 >>	Isuzu 2.0L (TK C201) Diesel	20513075	12V / 2.0kW	Hitachi System
RD-II	92 >>	Yanmar 388 (TK 3.88) Diesel	20513587	12V / 1.4kW	
RD-II MAX	92 >>	Yanmar 388 (TK 3.88) Diesel	20513587	12V / 1.4kW	
RD-II MAX SR	92 >>	Yanmar 388 (TK 3.88) Diesel	20513587	12V / 1.4kW	
RD-II TCI	92 >>	Yanmar 388 (TK 3.88) Diesel	20513587	12V / 1.4kW	
RD-II TCI-Z			20513587	12V / 1.4kW	
RD-II TLE	96 >>	Yanmar 395 (TK 3.95) Diesel	20513032	12V / 2.0kW	
TS Spectrum	02 >>	TK 3.76 Diesel	20513032	12V / 2.0kW	

Starter Motors

				OUTPUT V / kW	NOTES / NOTAS
TS-200	00 >>	Yanmar 374 (TK 3.74) Diesel	20513032	12V / 2.0kW	
TS-300	00 >>	Yanmar 374 (TK 3.74) Diesel	20513032	12V / 2.0kW	
TS-500	00 >>	Yanmar 395 (TK 3.95) Diesel	20513032	12V / 2.0kW	
TS-600	00 >>	Yanmar 395 (TK 3.95) Diesel	20513032	12V / 2.0kW	
UTS		Yanmar 395 (TK 3.95) Diesel	20513032	12V / 2.0kW	
XDS	99 >>		20513032	12V / 2.0kW	





REFRIGERATION BUYER'S GUIDE STARTER MOTORS



Starter Motor
Buyer's Guide

20513032	12V	2.0kW	ER	CW	GR	15	50	20	33	APPLICATION
										THERMO KING > ENGINES - Various Models > TRAILER UNIT - URD-III MAX > TRUCK UNIT - KD-II SR, MD-200 / MT, MD-300, MD-II MAX / SR / MAX SR, RD-II TLE, TS Spectrum, TS-200, TS-300, TS-500, TS-600, UTS, XDS
20513052	12V	2.0kW	ER	CW	GR	9	33	20	32.6	APPLICATION
										THERMO KING > ENGINES - Various Models > GENERATOR SET - CGCM, CGCO, CGEO, CG-II / M12 / M20 / M22 / M30, CGSM, SGCM, SGCO, SGSM > TRAILER UNIT - SB-190, SB-I, SB-II / MAX / SR, SB-III / MAX / SR, Sentry, SMX / II, SMX SR, Super II / Max / SR / TC, Super NWD, TD-I, TD-II
20513057	12V	2.0kW	ER	CW	GR	9	36.5	20	33	APPLICATION
										THERMO KING > ENGINES - Various Models > TRAILER UNIT - SB-200 / 210 / 300 / 310, SB-II SR, SB-III SR, SL100 / 100e / 200 / 200e / 300 / 400 / 400SR2 / 400e, Spectrum SB / SL, Super II TC
20513059	12V	1.4kW	ER	CW	GR	9	29	17	29	APPLICATION
										CARRIER TRANSICOLD > ENGINES - Various Models > TRAILER UNIT - Maxima, Optima
20513075	12V	2.0kW	ER	CW	GR	9	32.5	20	32.5	APPLICATION
										THERMO KING > ENGINES - Various Models > GENERATOR SET - CG-II M12 / M20 / M22 / M30 > TRAILER UNIT - SB-II, SB-III, SB-III MAX, Sentry, SNWD, Super II, Super NWD > TRUCK UNIT - NWD Series

20513587	12V	1.4kW	ER	CW	GR	11	41.0	25	38	APPLICATION
										THERMO KING > ENGINES - Various Models > TRAILER UNIT - LND II 50, TD-II > TRUCK UNIT - KD-II, KD-II MAX, MD-II, MD-II TCI, RD-II, RD-II MAX / SR / TCI / TCI-Z
20513591	12V	2.0kW	ER	CW	GR	9	34.5	24	38	APPLICATION
										CARRIER TRANSICOLD > GENERATOR SET - RG, UG > TRAILER UNIT - Extra, Genesis TR, Phoenix Ultra, Ultima 53, Ultra XTC



REFRIGERATION CROSS-REFERENCE GUIDE



Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
BOSCH		30-00363-00	110-683	19020581	20115022	110-639	110-639RM
0120484028	20140111	30-00363-00140954	110-683	DENSO		110-679	110-612RM
0120488297	66021606	30-00363-00R	110-683	028000-5730	20513587	310-65	110-159
9120060023	66021606	30-00363-00RM	110-683	128000-0050	20513059	8AR2018L	110-683
9120060026	66021606	30-00363-01	110-683	128000-0710	20513032	8AR2069F	110-629
9120060027	66021606	30-00363-03	110-487	228000-0990	20513059	8AR2070K	110-647
9120060038	66021624	30-00363-04	110-683	228000-0991	20513059	8AR2070KA	110-647
9127041233	20115022	30-00393-00	20115022	228000-1070	20513589	8AR2169F	110-629
9127041241	20115022	30-00393-01	20115022	228000-1071	20513589	8EA2001F	110-629
9127041242	20115022	30-00393-02	20115022	228000-3660	20513059	8EA2001FA	110-629
CARRIER TRANSICOLD		30-00398-00	110-532	428000-0930	20513591	8EK2005NA	110-636RM
7101798	20140112	30-00409-03	110-608RM	428000-0931	20513591	8EK2005NB	110-636RM
7101799	20140113	30-00409-04	110-607RM	HITACHI		8EK2005NC	110-636RM
7102937	20140112	30-00409-06	110-607RM	S12-41A	20513075	8EK2005ND	110-636RM
20-44-3325	110-159	30-00409-07	110-607RM	S12-59	20513075	8EK2006FA	110-635RM
20-44-3325RM	110-159	30-00409-08	110-606RM	S13-207	20513057	8EK2006FB	110-635RM
20-44-6257	110-543	30-00409-10	110-606RM	S13-207C	20513057	8EK2006FC	110-635RM
20-44-6257RM	110-543	30-00409-12	110-609RM	S13-84	20513075	8EK2007N	110-600
20-44-6266	110-543	30-00409-14	110-610RM	S13-84A	20513075	8EK2007NA	110-600
20-44-6266RM	110-543	30-00409-15	110-610RM	S13-84B	20513075	8EK2007NB	110-600
20-45-1263	20513052	30-00409-17	8MR2323LA	S13-89A	20513052	8EK2007NC	110-600
20-45-1263RM	20513052	30-00409-18	8MR2323LA	S13-89B	20513052	8EK2007ND	110-600
20-45-1285	20513075	30-00409-64	110-606RM	S13-89C	20513052	8EK2008F	110-699
20-45-1285RM	20513075	30-00423	110-612RM	ISKRA		8EK2008FA	110-699
20-45-1312	20513032	30-00423-00	110-612RM	11.201.695	20110326	8EK2008FB	110-699
20-45-1671	20513052	30-030600	110-629	AAK4556	20110326	8EK2008FC	110-699
25-15370-00	20513059	30-50005	110-629	ISUZU		8EK2008FD	110-699
25-15520-00RM	20513059	30-50009-00	110-629	8941475492	20513052	8EK2009FA	110-699
25-35458	20513059	30-50306-00	8MR2130F	KUBOTA		8EK2009FB	110-699
25-35458-00	20513059	30-50307	110-683	19013-63012	20513589	8EK2009FC	110-699
25-38750-00	20513589	30-50307-00	110-683	LEECE-NEVILLE		8EK2010NA	110-600
25-38750-00RM	20513589	30-50326-00	20115022	110-273	110-629	8EK2010NB	110-600
25-39316-00	20513591	30-50336-00	8MR2120L	110-274	110-647	8EK2010NB	110-600
30-00251	110-159	30-50337-00	8MR2119F	110-299	110-527	8EK2010NC	110-600
30-00251-11	110-159	30-50341-00	8MR2317F	110-303	110-543	8EK2010ND	110-600
30-00281	110-656	30-50342-00	8MR2319L	110-304	110-543	8EK2010ND	110-600
30-00281-00	110-656	30-60050-00	20140112	110-307	110-521	8EK2012NA	110-600
30-00281-01	110-656	30-60050-01	20140113	110-329	110-629	8EK2012NB	110-600
30-00281-02	110-656	30-60050-02	20140112	110-342	110-532	8EK2170F	110-635RM
30-00281-10	110-656	30-60050-03	20140112	110-400	110-600	8EM2001FA	110-532
30-00281-11	110-656	30-60050-04	20140112	110-542	110-543	8EM2012N	110-612RM
30-00306	110-629	30-60050-06	20140113	110-606	110-606RM	8EM2012NA	110-612RM
30-00306-00	110-629	30-60050-07	20140114	110-607	110-607RM	8EM2012NAS	110-612RM
30-00306-02	110-629	30-66603-00	8SC3114V	110-608	110-608RM	8EM2012NB	110-612RM
30-00306-03	110-629	TA61-5000-01	110-629	110-608	110-608RM	8HA2003F	110-159
30-00306-04	110-629	DELCO REMY		110-609	110-609RM	8HA2003FS	110-159
30-00306-05	110-629	10465347	20513075	110-610	110-610RM	8HA2005K	110-253
30-00331	110-159	10465438	20513052	110-611	110-611RM	8HA2008F	110-543
30-00331-00	110-159	10465440	20513032	110-612	110-612RM	8HA2008FA	110-543
30-00349-01	110-683	19020507	66021606	110-635	110-635RM	8HA2009K	110-543
30-00349-01	110-683	19020508	66021606	110-636	110-636RM	8HA2009KA	110-543









Cross-Reference

Original	Prestolite	Original	Prestolite	Original	Prestolite	Original	Prestolite
8LHA2070VE	110-555JHO	LESTER		44-8091	110-699	5D35741G01	110-699
8MA2019K	110-527	7444	110-159	44-8535	110-699	5D35741G02	110-699
8MA2019KA	110-527	7479	110-699	44-8904	110-600	5D35741G04	110-699
8MR2013L	110-487	7480	110-600	44-8939	110-699	5D35742G01	110-600
8MR2050FA	110-532	7482	110-543	44-8940	110-600	5D35742G02	110-699
8MR2058P	110-521	7489	110-521	44-8949	66021606	5D35742G03	110-600
8MR2058PA	110-521	12223	66021606	44-8950	66021606	5D36221G01	20140110
8MR2118FA	110-610RM	12224	66021606	44-8996	110-555JHO	5D37920G01	66021624
8MR2121L	110-609RM	12225	20115022	44-9570	66021606	5D38603G01	66021606
8MR2121LA	110-609RM	16657	20513032	44-9571	66021606	5D38604G01	66021606
8MR2122U	110-608RM	17088	20513075	44-9572	66021606	5D44463G01	110-581
8MR2122UB	110-608RM	18067	20513052	44-9716	66021624	5D44464G01	110-699
8MR2123L	110-611RM	18175	20513589	44-9750	110-699	5D44466G01	110-699
8MR2123LA	110-611RM	PARIS RHONE		44-9751	110-699	5D44466G02	110-699
8MR2124L	110-606RM	A13N237	20140112	44-9753	110-600	5D44466G03	110-699
8MR2125L	110-607RM	A13N260	20140112	44-9754	110-699	5D44467G01	110-581
8MR2125LA	110-607RM	A13N291	20140112	44-9755	110-600	5D44467G01	110-600
8MR2126U	110-608RM	A13N293	20140112	45-1229	20513075	5D44467G02	110-600
8MR2126UA	110-608RM	A13N296	20140114	45-1263	20513052	5D50461G01	20140111
8MR2128FA	110-610RM	A13N297	20140113	45-1285	20513075	7318C39G01	110-521
8MR2129L	110-612RM	THERMO KING		45-1312	20513587	P274934	20140110
8MR2150L	110-600	41044000	20513052	45-1671	20513052	YANMAR	
8MR2171F	110-699	41-2194	110-581	45-1688	20513057	121120-77011	20513032
8MR2172F	110-699	41-2196	110-699	45-1718	20513587	129486-77011	20513057
8MR2175F	110-699	41-2197	110-699	844-3325	110-159		
8MR2180L	110-636RM	41-2197	110-699	844-6257	110-543		
8MR2181L	110-699	41-2198	110-699	844-6266	110-543		
8MR2185L	110-600	41-2198	110-699	844-7925	110-699		
8MR2195TA	110-638RM	41-2199	110-699	844-7927	110-600		
8MR2197T	110-639RM	41-2200	110-600	844-9571	66021606		
8MR2198LS	110-612RM	41-2201	110-600	844-9572	66021606		
8MR2199KS	110-656	41-2571	20140111	845-1263	20513052		
8MR2215D	110-581	41-3020	110-575	845-1285	20513075		
8MR2324L	110-607RM	41-5456	20140111	1E32215G01	66021606		
8MR2325U	110-608RM	41-5458	66021606	2D72786G02	110-600		
8MR2325U	110-608RM	41-6780	66021606	2D72786G03	110-699		
8MR2326L	110-606RM	44-2918	20513075	3D97252G01	110-555JHO		
8MR2327L	110-609RM	44-3325	110-159	3D97386G01	110-699		
8MR2328F	110-610RM	44-4021	110-316	3D97386G03	110-699		
8MR2329L	110-611RM	44-4100	110-190	3D97387G01	110-600		
8MR2330L	110-612RM	44-4181	110-253	4003D30G01	110-190		
8MR2346	110-635RM	44-5004	110-647	4006D20G01	110-159		
8MR2346	110-636RM	44-5443	20513075	4006D20G02	110-159		
8MR2349	110-639RM	44-6257	110-543	4006D20G03	110-253		
8SC3017V	110-575	44-6266	110-543	4116D22G03	110-699		
8SC3017VA	110-575	44-6368	110-576	4117D21G01	110-543		
8SC3018V	110-576	44-6918	110-575	4117D21G02	110-543		
8SC3018VA	110-576	44-6981	110-521	4125D55G01	110-575		
8SC3019U	110-316	44-7156	110-600	4125D55G02	110-576		
8TA2010ES	110-190	44-7925	110-699	5D33839G01	66021606		
RM310-089	110-543	44-7927	110-600	5D33841G01	66021606		






REFRIGERATION SERVICE PARTS LIST



ALTERNATOR	ROTOR	STATOR	RECTIFIER	REGULATOR	BRUSHBOX	BEARING (FRONT)	BEARING (REAR)	FAN
								
	1	2	3	4	5	6	7	8
110-159	112-1	113-1	101-1 (+) 101-2 (-)	105-124	103-15	111-40	110-23	107-8
110-521	112-27	113-86	101-63 (+) 101-201 (-) 101-130 (trio)	105-327	103-46	111-21	111-21	107-114
110-527	112-7	113-75	101-235 (+) 101-193 (-) 101-130 (trio)	-	103-6	111-21	111-21	107-114
110-543	112-2	113-75	101-241 (+) 101-236 (-) 101-130 (trio)	-	103-6	111-40	111-23	107-8
110-555JHO	Refer to SP-1004, available from www.prestolite.com or Technical services							
110-575	112-84	113-93	101-231 (+) 101-232 (-)	105-389	103-27	111-34	111-73	102-955
110-576	112-58	113-93	101-231 (+) 101-232 (-)	105-383	103-27	111-34	111-73	102-955
110-581	112-83	113-91	101-235 (+) 101-193 (-) 101-130 (trio)	105-335	103-46	111-78	111-21	107-114
110-600	112-103	113-71	101-235 (+) 101-193 (-) 101-130 (trio)	105-335	103-46	111-78	111-21	107-8
110-607RM	112-40	113-71	101-250 (+) 101-193 (-)	105-365	103-46	111-21	111-21	107-9
110-608RM	112-46	113-69	101-248 (+) 101-249 (-)	105-365	103-46	111-78	111-21	107-9
110-609RM	112-40	113-71	101-250 (+) 101-193 (-) 101-130 (trio)	105-365	103-46	111-78	111-21	107-8

Parts

ALTERNATOR	ROTOR	STATOR	RECTIFIER	REGULATOR	BRUSHBOX	BEARING (FRONT)	BEARING (REAR)	FAN
								
	1	2	3	4	5	6	7	8
110-610RM	112-83	113-74	101-250 (+) 101-193 (-)	105-367	103-46	111-21	111-21	107-8
110-611RM	112-101	113-71	101-235 (+) 101-193 (-) 101-130 (trio)	105-303	103-46	111-78	111-21	-
110-612RM	112-40	113-71	101-235 (+) 101-193 (-) 101-130 (trio)	105-303	103-46	111-21	111-21	107-114
110-629	112-1	113-74	101-241 (+) 101-236 (-) 101-130 (trio)	105-307	103-46	111-21	111-23	107-8
110-635RM	112-83	113-74	101-235 (+) 101-193 (-) 101-130 (trio)	105-335	103-46	111-78	111-21	107-8
110-636RM	112-103	113-71	101-235 (+) 101-193 (-) 101-130 (trio)	105-335	103-46	111-78	111-21	107-8
110-638RM	112-46	113-89	101-275 (+) 101-271 (-) 101-272 (trio)	105-335	103-46	111-78	111-21	107-114
110-639RM	112-46	113-89	101-275 (+) 101-271 (-) 101-272 (trio)	105-335	103-46	111-78	111-21	107-114
110-647	112-89	113-75	101-241 (+) 101-236 (-) 101-130 (trio)	105-307	103-46	111-3	111-23	107-8
110-699	112-83	113-74	101-235 (+) 101-193 (-) 101-130 (trio)	105-335	103-46	111-78	111-21	107-8

Please photocopy this page and fax your comments to: (800) 997-6202

Section 1 - Request For New Part Number

Your Name: _____

Your Company: _____

Application Details: _____

OE References: _____

Competitor References: _____

Estimated Annual Volume: _____ Target Price: _____

Comments: _____

Section 2 - Corrections

Please Advise Any Errors or Suggestions

Your Name: _____

Your Company: _____

Details Of Error / Suggestion: _____

ALSO AVAILABLE

BUS & COACH PRODUCTS CATALOGUE

Order no. PP4028



COMING SOON....

MARINE PRODUCTS CATALOGUE





THE POWER OF EXCELLENCE

PRESTOLITE ELECTRIC INC.
LEECE-NEVILLE HEAVY DUTY SYSTEMS

www.prestolite.com

Manufacturing OE Sales

400 Main Street
Arcade, NY USA 14009

Phone (585) 492-1700
Fax (585) 492-1660

Distribution, Aftermarket Sales

7585 Empire Drive
Florence, KY USA 41042
Phone (859) 525-8801

(800) 354-0560
Fax (800) 997-6202