

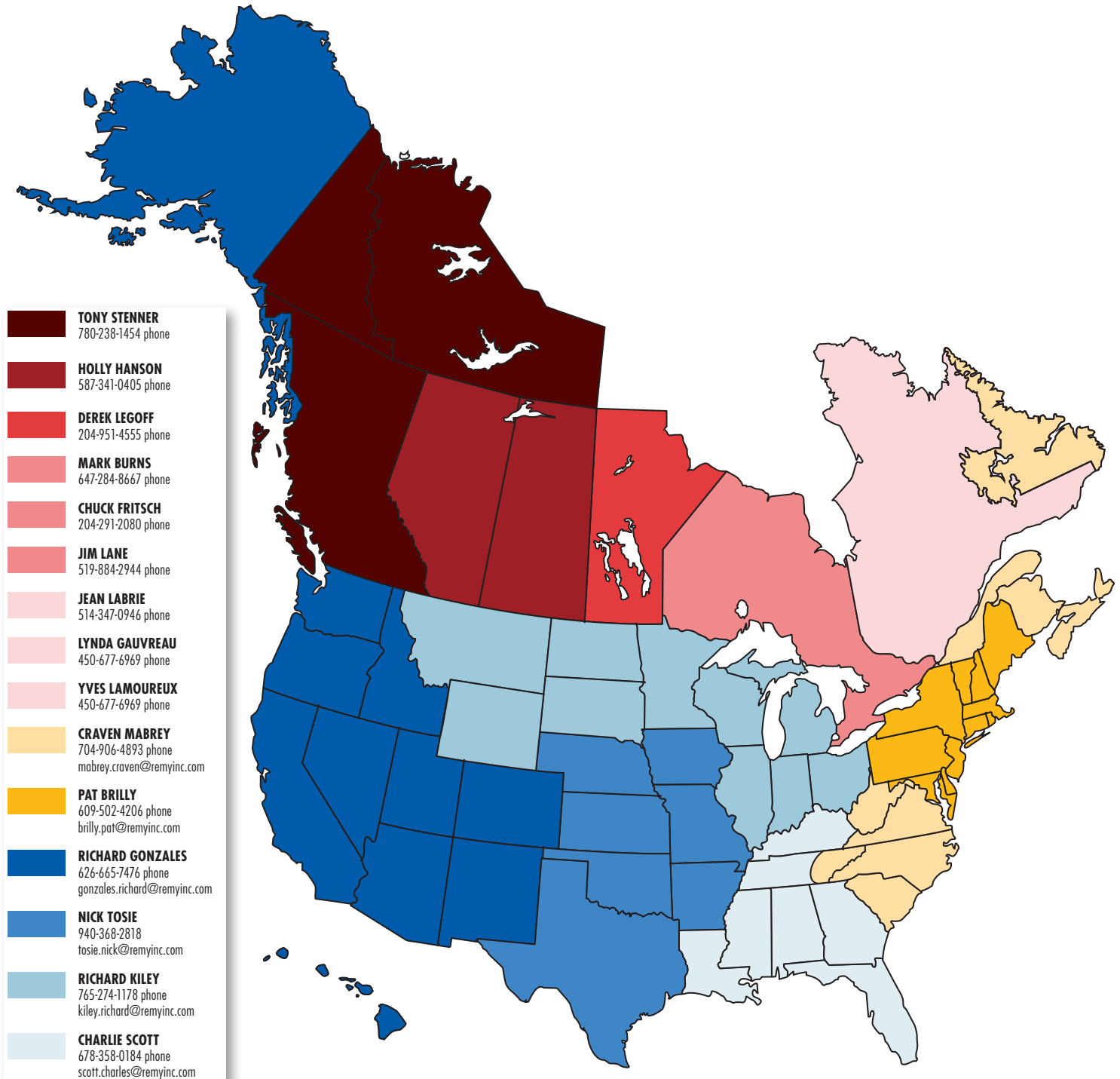
## Vendor:

## **Delco Remy**

<b>Vendor Information</b>	<p>Remy International, Inc., headquartered in Pendleton, Indiana, is a leading global manufacturer, remanufacturer and distributor of light duty starters, alternators and electric motor technology and Delco Remy brand heavy-duty systems. Remy has 48 facilities in 11 countries around the world. In business for over 100 years, today Remy International is actively collaborating with companies throughout the world to develop innovations that are transforming the vehicle industry.</p>
<b>Customer Service &amp; Technical Support</b>	<p>Hino Parts Support Phone: 866-372-4466 Hino Parts Support Email: helpdesk@hino.com Hino Parts Support Fax: 662-342-3939 Delco Remy Customer Service: 1-800-372-0222 or CustomerService@borgwarner.com Delco Remy Warranty   Register Here: <a href="http://www.delcoremywarranty.com">www.delcoremywarranty.com</a>   Phone: 601-785-9504 Kaysie Graham Delco Remy Web Site: <a href="http://www.delcoremy.com">www.delcoremy.com</a> Delco Remy Fax: 765-778-6566</p>
<b>Order Procedures:</b>	<p>All orders are to be placed through the Hino Dealer Connect System (DCS). For special orders questions or for customer support contact Vendor directly via phone number.</p>
<b>Stock Orders</b>	<p>Enter orders in DCS Screen DC202 under Sales Type "S". All direct ship items will be shipped from a local Vendor PDC. Emergency orders may be entered into DCS screen DC202 as a Sales Type "E" or "V". All emergency orders will be processed with a "rush" order. Freight and Handling fees will be identified on the Hino invoice. Maximum of two part numbers, two pieces per part number, &amp; for complete units only. Component parts are not part of the emergency order process. Product will be shipped to dealers only. Delco Remy does not drop-ship to third party locations (customer/fleet locations). Freight must be via overnight or second day expedited carrier &amp; is the dealers responsibility. Emergency orders received after 2:00pm EST will ship the following day.</p>
<b>Emergency Orders</b>	
<b>Minimum Order Quantity</b>	<p>There is no minimum order requirement on emergency or stock orders, however to achieve free freight order must be over 12 pieces (Mix and Match Alternators, &amp; Starters).</p>
<b>Freight Policy:</b>	<p>Shipments within the Continental United States will be shipped freight pre-paid and added to the invoice unless the order qualifies for Free Freight. All orders will be shipped via the most efficient method.</p>
<b>Free Freight Policy:</b>	<p>There is no minimum order requirement on emergency or stock orders, however to achieve Pre-Paid freight order must be over 12 pieces (Mix and Match Alternators, &amp; Starters).</p>
<b>Order Fulfillment Policy:</b>	<p>The standard order processing time is 7 business days from date of order placement.</p>
<b>Part Number Pricing:</b>	<p>Pricing will be available on-line in the Hino DCS system. In addition, the prices will be forwarded to your service bureaus within two weeks of each pricing update.</p>
<b>Format:</b>	<p>Standard Part numbers are prefixed by "DR-".</p>
<b>Mega Fleet:</b>	<p>All-Makes parts are not included in the Hino Mega Fleet pricing file but can be sold to Mega Fleet customers and filed as Miscellaneous Items in Corcentric when submitting for reimbursement.</p>
<b>Warranty:</b>	<p>Please see "Delco Remy Warranty" website and phone number at top. Please always view Suppliers warranty documents as warranty varies based on items/products/vehicle applications, etc... Please view Vendor warranty documents as warranty varies based on item. Contact vendor directly for a RGA approval number. Warranty covers manufacturers defects only and does not cover damage (installation or progressive). If the vendor provides a RGA number, contact Hino Trucks warranty department. Warranty claims are to be sent back through Hino Trucks corporate. Remy's liability under this warranty is limited solely to the repair or replacement of defective product within the United States and Canada. Any product submitted for repair or replacement must be presented to Remy at one of its facilities within the United States. Remy shall not be liable for any incidental, special, consequential or exemplary damages, including but not limited to rental cars, towing fees or for any service not expressly provided for herein, relating to or arising from Remy product. THIS WARRANTY IS A LIMITED WARRANTY: This warranty is given in lieu of all other warranties, expressed or implied, including the warranty of merchantability, or fitness for a particular purpose or otherwise, on the part of Remy. No dealer or supplier, nor any agent or employee thereof, is authorized to extend or modify this warranty.</p>
<b>Returns:</b>	<p>returns@borgwarner.com For RMAs and other return questions. Contact vendor directly to obtain a Return Goods Authorization code by phone number or email address listed above. All returned items MUST have prior approval and the Return Goods Authorization (RGA) marked on the outside of the box. RGAs have an expiration date of sixty (60) days; after sixty (60) days the return will become null and void. All returns are subject to a 25% or greater restocking fee. Will not authorize any returns that are not properly packaged or in the original packaging. No credit will be issued for product that has been damaged, altered, or installed on equipment. The customer is responsible for all freight charges on the returned merchandise. Special order items or non stock items are not returnable.</p>
<b>Shipping Inspection and Damaged Product:</b>	<p>All merchandise should be inspected upon arrival and carrier damage claims should be filed with the carrier immediately. We are not responsible for, nor are we in a position to make a claim after the freight carrier accepts the shipment from us. For excess stock returns, contact the Vendor directly.</p>
<b>Vendor Cross Reference Web Site:</b>	<p><a href="http://www.delcoremy.com/partnumberref.aspx">http://www.delcoremy.com/partnumberref.aspx</a></p>
<b>Conclusion:</b>	<p>Delco Remy represents an excellent opportunity for your dealership to enter the \$1 billion dollar rotating electrical components business. Commercial vehicle operators around the globe depend on the quality, dependability and proven reliability the Delco Remy builds into each and every starter and alternator produced. Ask your DPM how you can get started today!</p>



# REGIONAL MANAGER TERRITORIES



## NATIONAL FLEET MANAGERS

**BRITT CAPLE**  
Southeast  
205-515-7330 phone  
caple.britt@remyinc.com

**TODD CROSS**  
West  
214-208-1919 phone  
cross.todd@remyinc.com

**BRIAN THOMPSON**  
Central & Northeast  
765-617-3270 phone  
thompson.brian@remyinc.com

**BOB JEFFRIES**  
Technical Support  
765-602-2631 phone  
jeffries.bob@remyinc.com

## TECHNICAL ASSISTANCE LINES

765-778-6689 phone  
800-372-0222



**OEM, NEW SERVICE and REMAN WARRANTY  
ON & OFF HIGHWAY with GAS or DIESEL ENGINE, 12V and 24V**

Product Warranty starts when the product is placed into service (OE) or when product is purchased by end user (New Service and Reman), and applies for the duration of the time or distance specified (whichever comes first).

Product Series	OEM				NEW SERVICE				REMAN			
	Months	Miles	KM	Hours <sup>1</sup>	Months	Miles	KM	Hours <sup>1</sup>	Months	Miles	KM	Hours <sup>1</sup>
<b>ALTERNATORS</b>												
11SI	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
19SI	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
20SI	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
21SI	n/a	n/a	n/a	n/a	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
22SI	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
23SI	36	150,000	240,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
24SI	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
26SI	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
28SI	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
28SI - School Bus Only <sup>6</sup>	36	Unlimited	Unlimited	N/A	24	Unlimited	Unlimited	N/A	12	Unlimited	Unlimited	N/A
30SI	N/A	N/A	N/A	N/A	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
31SI	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
33SI	36	350,000	560,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
34SI	36	350,000	560,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
35SI	36	350,000	560,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
35SI HP <sup>4</sup>	N/A	N/A	N/A	N/A	36	350,000	560,000	2,000	24	250,000	400,000	2,000
36SI	36	350,000	560,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
36SI HP <sup>4</sup>	N/A	N/A	N/A	N/A	36	350,000	560,000	2,000	24	250,000	400,000	2,000
40SI	36	350,000	560,000	2,000	36	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
40SI - School Bus Only	48	Unlimited	Unlimited	N/A	36	Unlimited	Unlimited	N/A	12	Unlimited	Unlimited	N/A
50DN	24	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
50DN Kit	N/A	N/A	N/A	N/A	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
<b>MOTORS</b>												
28MT	n/a	n/a	n/a	n/a	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
29MT	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
37MT	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
38MT <sup>2</sup>	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
39MT <sup>2</sup>	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
41MT	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
42MT	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
44MT	44	440,000	710,000	2,000	44	440,000	710,000	2,000	N/A	N/A	N/A	N/A
50MT	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
iMT	12	100,000	160,000	2,000	12	Unlimited	Unlimited	Unlimited	N/A	N/A	N/A	N/A
<b>MOTORS w/OCF</b>												
39MT <sup>2,3</sup>	36	350,000	560,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
39MT all makes <sup>5</sup>	N/A	N/A	N/A	N/A	36	Unlimited	Unlimited	Unlimited	N/A	N/A	N/A	N/A
41MT <sup>3</sup>	36	150,000	240,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
42MT <sup>3</sup>	36	350,000	560,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
<b>OTHERS</b>												
50VR Regulator	24	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited
Service parts- all product lines	N/A	N/A	N/A	N/A	3	Unlimited	Unlimited	Unlimited	N/A	N/A	N/A	N/A
All other products not listed above	12	100,000	100,000	2,000	12	Unlimited	Unlimited	Unlimited	12	Unlimited	Unlimited	Unlimited

**Notes:**

- 1- Hours apply to off-highway applications
- 2- Must include IMS (Integral Magnetic Switch)
- 3- Excludes high start applications
- 4- HP applies to these models:  
 35SI new Service: 8600064, 8600065, 8600066  
 35SI Reman: 8700016, 8700017, 8700018  
 36SI new Service: 8600125, 8600126, 8600127  
 36SI Reman: 8700045, 8700046, 8700047
- 5- 39MT all makes applies to these models:  
 39MT new Service: 8200287, 8200288, 8200289, 8200290, 8200291, 8200308, 8200417, 8200433, 8200434, 8200468, 8200469, 8200470
- 6- 28SI School Bus applies to 180 and 200A models only

Remy's liability under this warranty is limited solely to the repair or replacement of defective product within the United States and Canada. Any product submitted for repair or replacement must be presented to Remy at one of its facilities within the United States. Remy shall not be liable for any incidental, special, consequential or exemplary damages, including but not limited to rental cars, towing fees or for any service not expressly provided for herein, relating to or arising from Remy product. **THIS WARRANTY IS A LIMITED WARRANTY:** This warranty is given in lieu of all other warranties, expressed or implied, including the warranty of merchantability, or fitness for a particular purpose or otherwise, on the part of Remy. No dealer or supplier, nor any agent or employee thereof, is authorized to extend or modify this warranty.

# **2451™**

**HEAVY DUTY ALTERNATOR**



**WE START THE WORLD & KEEP IT RUNNING™**

**24SI™**

**Cool new standard for the aftermarket**

The Delco Remy  
24SI is the  
updated version  
of the 22SI.

It provides higher  
output and better  
cooling, meeting  
the demands of  
engines from years  
2004 and higher.

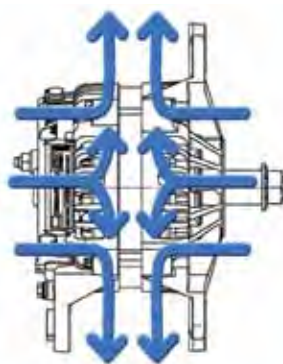
### **MAXIMUM COOLING TECHNOLOGY**

Leading the list is a new Maximum Cooling Technology that's specially designed for today's higher under-hood temperatures.

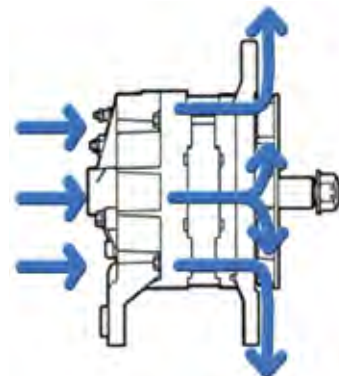
The 24SI has a dual internal fan (DIF) design that provides Maximum Cooling Technology. Dual fans mean greater air circulation over the alternator electronics. That allows the alternator to run at lower temperatures which improves the operating efficiency and durability of the unit.

The diagrams demonstrate how the new 24SI draws air in from both the drive and terminal ends of the alternator, circulates it over the internal components and then out through air vents in the frame. The result is an alternator that runs dramatically cooler.

Contrast that with the conventional design at the right. With a single, external fan, air is drawn in from the terminal end and passes through the length of the alternator to exit through the fan. The higher operating temperature reduces the unit's efficiency and durability.



**24SI  
Dual Internal Fan  
Technology**



**Conventional  
External Single Fan  
Technology**





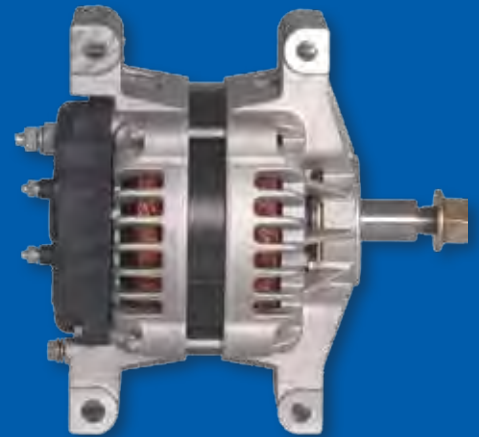
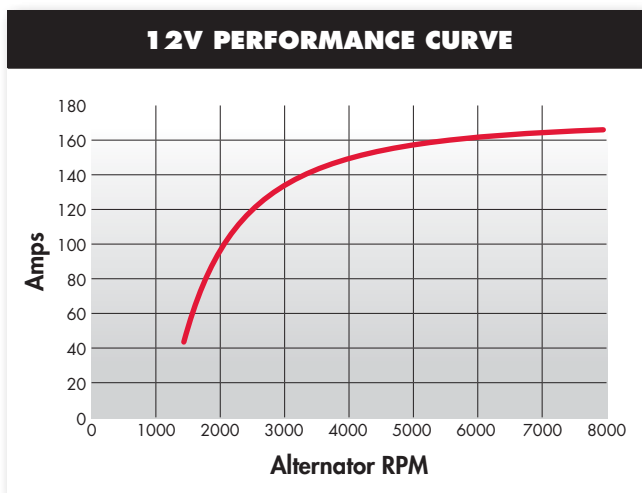
## MAXIMUM PERFORMANCE

The 24SI has been designed to cope with the ever-increasing electrical loads on today's vehicles. It produces 160 Amps of output at road speeds, and 100 Amps at low engine idle speeds. And, of course, efficiency of operation always translates into fuel savings.

## 24SI FEATURES

- OE approved. Over 500,000 installed as original equipment.
- Compact in size and lightweight
- Superior output at low RPM – 100 Amps at idle
- Improved cooling with dual internal fans

SPECIFICATIONS	
<b>Performance Output</b>	12 Volts 160 Amps (100 Amps at idle) 24 Volts 70 Amps
<b>Rotation</b>	Clockwise
<b>Maximum Speed</b>	10,000 RPM Continuous 12,000 RPM Intermittent
<b>Temperature Limits</b>	Low: -40°C (-40°F) High: 105°C (221°F)
<b>Polarity</b>	Negative Ground
<b>Mounting</b>	J180 Hinge Mount Pad Mount
<b>Weight</b>	7.7 kg (16.2 lbs)



**PAD MOUNT**



**J180 HINGE MOUNT**







## Competitive Comparison/Cross Reference

### 12V SIDE-BY-SIDE COMPARISON

Specifications	Delco Remy 24SI	Leece Neville 110-555	Bosch AL9960LH
Rated Output Voltage	14.0	13.8	14.0
Output @ 2000 rpm	100 Amps	96 Amps	94 Amps
Output @ 6000 rpm	160 Amps	160 Amps	155 Amps
Overall Diameter	150.0 mm	170.1 mm	147.2 mm
Length	213.7 mm	222.5 mm	206.5 mm
Total Mass/Weight	7.7 kg	8.7 kg	6.9 kg
Fan for Cooling	Dual Internal Fan	External Single Fan	Dual Internal Fan
DE Bearing	62 mm	62 mm	52 mm
Bearing Protection	Slinger Protection	Unprotected	Unprotected
Rotor Shaft	25 mm	25mm	17 mm

### UPGRADE FROM COMPETITIVE ALTERNATORS

Leece Neville	Replace With Delco Remy
 <b>LN 110-555JHO</b>	 New Service - No Core <b>24SI 8600310</b>
 <b>LN 110-555PHO</b>	 New Service - No Core <b>24SI 8600889</b>

# 24SI™

## Maximum Cooling Technology

### PART NUMBERS

Mounting	Model	Part #	Output (Amps)
Pad	12V	8600889	160
	24V	8600471	70
J-180 Hinge	12V	8600310	160
	24V	8600388	70



Part numbers fast  
at [delcoremy.com](http://delcoremy.com)

Warranty: New service models - 1 year, unlimited miles

Remy Inc. is a leading global manufacturer of Delco Remy brand heavy duty starters and alternators, light duty starters and alternators, and electric motor technology for EV and hybrid vehicles. We lead with product innovation and performance – you win with trusted, knowledgeable support.



[delcoremy.com](http://delcoremy.com)

Remy Inc.  
600 Corporation Drive  
Pendleton, IN 46064 USA  
For Technical Assistance call 1-800-372-0222

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# **2851™**

**HEAVY DUTY ALTERNATOR**





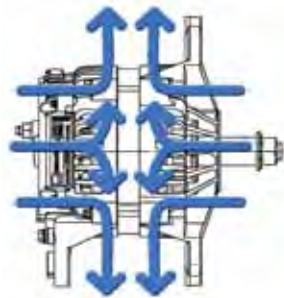
**WE START THE WORLD & KEEP IT RUNNING™**

# 28SI™

**Reliability & durability for heavy electrical load vehicles - an alternator in a class of its own**

## Intelligent Design

The 28SI utilizes proven technologies like Dual Internal Fans and Remote Sense to fit demanding applications like school buses, heavy duty trucks, utility vehicles and other vehicles that have to contend with strong electrical loads as part of their daily operating routine.



Dual Internal Fan Design

## MAXIMUM COOLING TECHNOLOGY

The 28SI has a Dual Internal Fan (DIF) design that provides maximum cooling technology. Dual fans mean greater air circulation over the alternator electronics. That allows the alternator to run at lower temperatures which improves the operating efficiency and durability of the unit. The diagram demonstrates how the 28SI draws air in from both the drive and terminal ends of the alternator, circulates it over the internal components

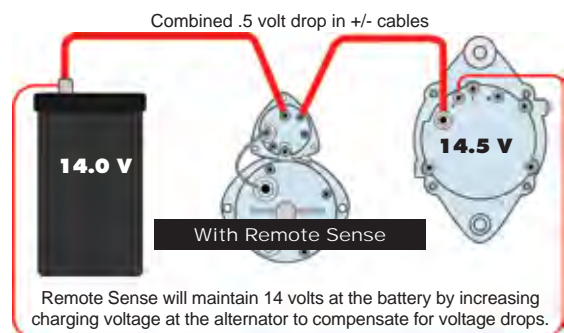
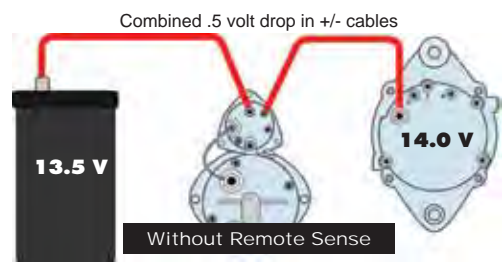
and then out through air vents in the frame. The result is an alternator that runs dramatically cooler.

## REMOTE SENSE CAN REDUCE BATTERY CHARGE TIME BY 50%

Due to resistance in battery cables, environmental factors and other conditions, the voltage from the alternator drops by the time it reaches the battery. Just because the alternator is sending 14 volts doesn't mean that the battery is receiving 14 volts.

That's why we've included Remote Sense on all models. With Remote Sense, a second wire reads the actual voltage at the battery and signals the alternator to boost its output to compensate for voltage drop ensuring 14 volts at the battery.

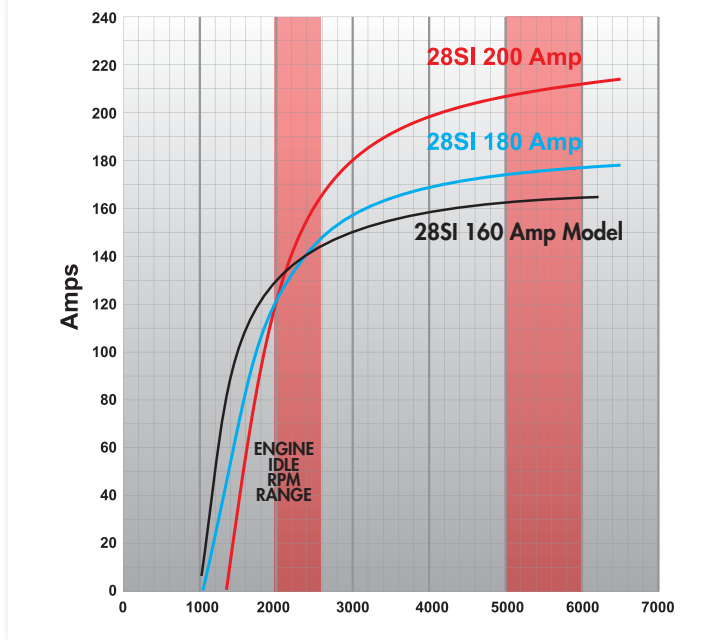
Research has shown that an increase of just ½ volt, when needed, can cut the battery charge time in half. At the end of the day, it can make the difference between batteries that are fully charged and those that aren't.



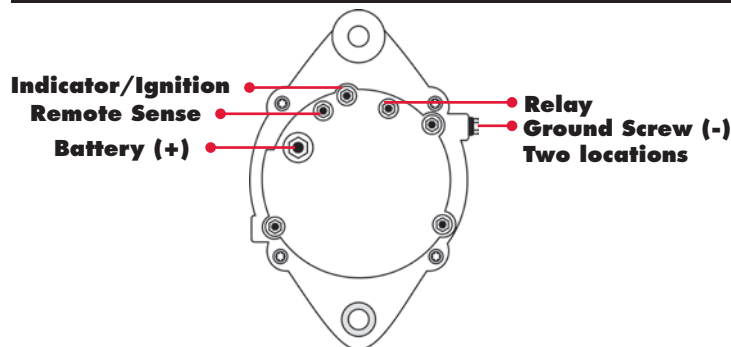
## 28SI SPECIFICATIONS

<b>Performance Output</b>	12 Volts 160 Amps (125 Amps at engine idle) 12 Volts 180 Amps (130 Amps at engine idle) 12 Volts 200 Amps (140 Amps at engine idle) 24 Volts 110 Amps
<b>Maximum Speed</b>	10,000 RPM Continuous 12,000 RPM Intermittent
<b>Rotation</b>	Clockwise
<b>Temperature Limits</b>	Low -40°C (-40°F) High 125°C (257°F)
<b>Polarity</b>	Negative Ground
<b>Mounting</b>	J180 Short Hinge Mount J180 Long Hinge Mount Pad Mount
<b>Weight</b>	18.7 lbs (8.5 kg)

## 28SI 12 VOLT PERFORMANCE CURVES



## 28SI INSTALLATION INFORMATION



## AFTERMARKET WARRANTY

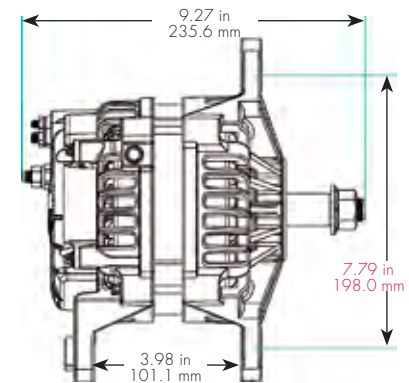
<b>School Bus</b>	2 Years / Unlimited Miles
<b>Truck, Emergency Vehicle, Shuttle Bus Recreational Vehicle</b>	1 Year / Unlimited Miles

Details can be found at [delcoremy.com](http://delcoremy.com)

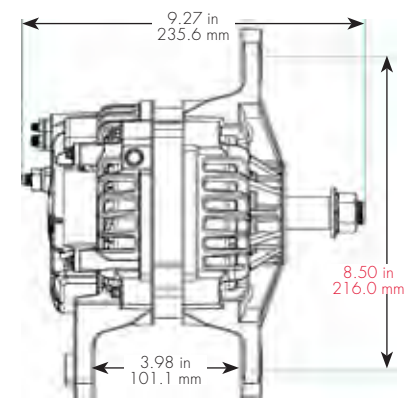
## MOUNTING STYLES

The difference between the J180 hinge mount styles is in the distance separating the bolt holes at the front of the alternator. Use an accurate ruler or the gauge at the right edge of this page to measure your existing unit.

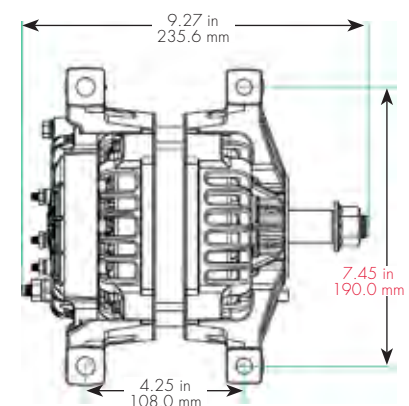
### J180 SHORT HINGE MOUNT



### J180 LONG HINGE MOUNT



### PAD MOUNT

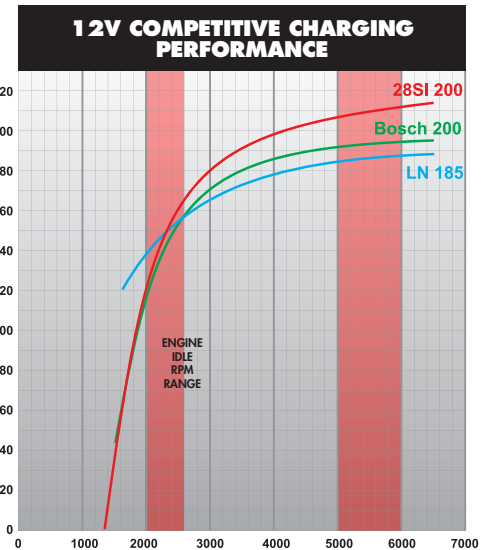


J180 LONG HINGE MOUNT Distance between bolt-hole centers 8.50 in (216.0 mm)

J180 SHORT HINGE MOUNT Distance between bolt-hole centers 7.79 in (198.0 mm)

# Competitive Comparison / Cross Reference

COMPETITIVE INTERCHANGE DATA								
Mounting	Delco Remy			Leece-Neville			Bosch	
	Model	Part #	Output (Amps)	Part #	Sales #	Output (Amps)	Part #	Output (Amps)
Pad	12V	8600315	160				AL9961IH	160
	12V	8600316	180	8LHP2276V	110-775P	170		
	12V	8600314	200	A0014939AAH	4939AAH	185	AL9962SB	200
				A0014939PGH	4939PGH	185		
				A0014943PGH	4943PGH	185		
				A0014945AAH	4945AAH	185		
				A0014940PA	4940PA	200		
				A0014948PA	4948PA	200		
24V	8600469	110	A0014951PGH	4951PGH	200			
J-180 Short Hinge	12V	8600312	160				AL9960IH	160
		8600223	180					
		8600313	200				AL9963SB	200
	24V	8600467	110					
J-180 Long Hinge	12V	8600308	160	A0012800LC	2800LC	160		
				A002801LC	2801LC	160		
				A0012802LC	2802LC	160		
				A0012824LC	2824LC	160		
				A0012825LC	2825LC	160		
				A0012828LC	2828LC	160		
				A0012913LC	2913LC	160		
				A0012800LC	2800LC	160		
	12V	8600311	180	A002801LC	2801LC	160		
				A0012802LC	2802LC	160		
				A0012824LC	2824LC	160		
				A0012825LC	2825LC	160		
				A0012828LC	2828LC	160		
				A0012913LC	2913LC	160		
				A0012800LC	2800LC	160		
				A002801LC	2801LC	160		
	12V	8600307	200	A0012824LC	2824LC	160		
				A0012825LC	2825LC	160		
				A0012828LC	2828LC	160		
				A0012913LC	2913LC	160		
				8LHA2275V	110-775	170		
				A0014836AAH	4836AAH	185		
				A0014836LGH	4836LGH	185		
				A0014846AAH	4846AAH	185		
				BLD2331GH	2331GH	185		
				BLD2333GH	2333GH	185		
				A0014850AA	4850AA	200		
				A0014860AA	4860AA	200		
A0014860JB	4860JB	200						
A0014861JB	4861JB	200						
A0014863JB	4863JB	200						
A0014868JGH	4868JGH	200						
A0014884JB	4884JB	200						
24V	8600468	110						



## 28SI™

The ideal alternator for heavy electrical loads

SIDE-BY-SIDE COMPARISON			
Specifications	Delco Remy 28SI 200 Amp	Leece-Neville 4800-4900 Series 185 Amp	Bosch AL9963SB 200 Amp
Weight	18.7lbs/8.5kg	33lbs/15kg	18.3lbs/8.3kg
Length	216 mm	275 mm	207 mm
Overall Diameter	154 mm	168 mm	156 mm
Stator Diameter	144 mm	168 mm	145 mm
Fan Type	Dual Internal	Single External	Dual Internal
Remote Sense	Yes	No	No
Output @ 2000 rpm	125 amps	140 amps	115 amps
Output @ 6000 rpm	212 amps	188 amps	200 amps
Peak Efficiency	68%	60%	68%
DE Bearing Size	62 mm	62 mm	52 mm
Temperature Rating °C	125	110	125*

\* Bosch model regulator will shut down completely before 125° resulting in no alternator output at this temperature



Part numbers fast at [delcoremy.com](http://delcoremy.com)

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# 3651™

HEAVY DUTY BRUSHLESS ALTERNATOR



WE START THE WORLD & KEEP IT RUNNING™

**3651™**

**Brushless design for longer life  
& reliable performance**

## Delco Remy Heavy Duty Brushless

**Alternators** have fewer moving parts. Fewer moving parts mean less wear on the alternator.

What you end up with is longer life, not to mention the best warranty in the industry to back it.



### HIGH EFFICIENCY TRANSLATES TO LESS ENGINE HORSEPOWER REQUIREMENTS, RESULTING IN SUBSTANTIAL FUEL SAVINGS.

Real time operating data was collected on several vehicle applications for the overall vehicle and electrical system. The following chart shows the fuel cost savings over a typical life cycle by increasing the alternator efficiency from 60% to 70%.

FUEL SAVINGS				
Vehicle Type & Miles Driven	Average Current	Fuel Cost with a 60% Efficient Alternator	Fuel Cost with a 70% Efficient Alternator	Savings
Line Haul Tractor (500k mi)	84 Amps	\$4,534	\$3,778	\$756
City Tractor (350k mi)	40 Amps	\$2,235	\$1,863	\$372
School Bus (250k mi)	102 Amps	\$9,040	\$7,533	\$1,057

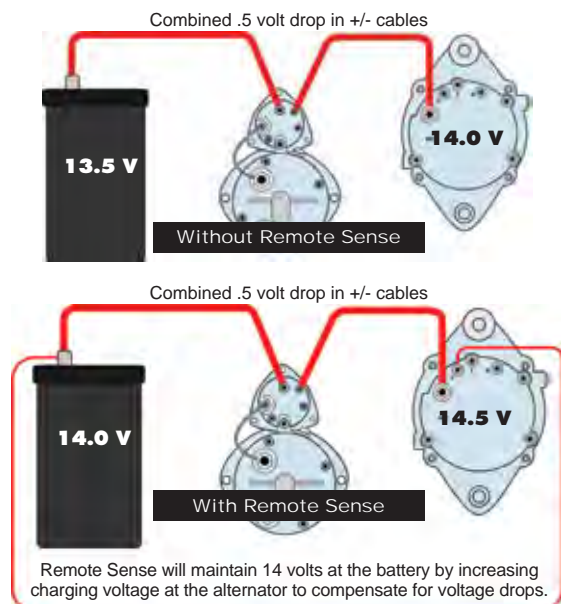
*Based on diesel fuel at \$4/gal*

### REMOTE SENSE CAN REDUCE BATTERY CHARGE TIME BY 50%

Due to resistance in battery cables, environmental factors and other conditions, the voltage from the alternator drops by the time it reaches the battery. Just because the alternator is sending 14 volts doesn't mean that the battery is receiving 14 volts.

That's why we've included Remote Sense on all models. With Remote Sense, a second wire reads the actual voltage at the battery and signals the alternator to boost its output to compensate for voltage drop ensuring 14 volts at the battery.

Research has shown that an increase of just 1/2 volt, when needed, can cut the battery charge time in half. At the end of the day, it can make the difference between batteries that are fully charged and those that aren't.





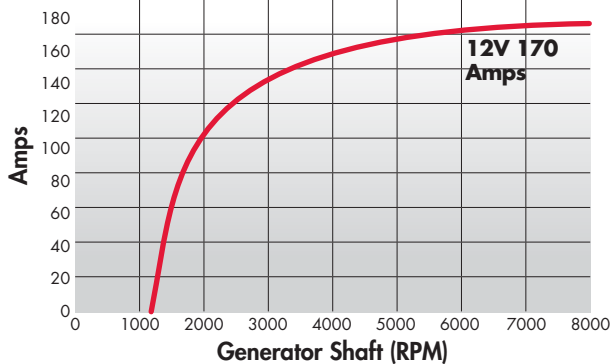
## SIDE-BY-SIDE COMPARISON

Characteristic	Delco Remy 36SI	Denso 130A
Weight	12.3 kg	10.2 kg
Length	263 mm	216 mm
Diameter	171 mm	156 mm
Brushless	Yes	Yes
Remote Sense	Yes	No
Output @ 2000 rpm	97 Amp	85 Amp
Output @ 6000 rpm	170 Amp	137 Amp
Peak Efficiency	68%	59%
J180 Hinge Mount	Yes	Yes
J180 Quad Mount	Yes	No
Pad Mount	Yes	Yes

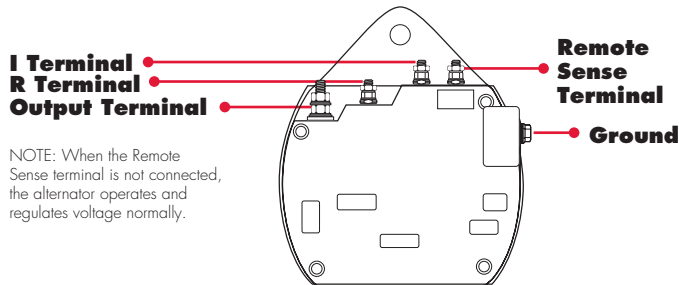
## SPECIFICATIONS

Performance Output	12 Volts 170 Amps (100 Amps at Idle) 24 Volts 105 Amps
Maximum Speed	10,000 RPM Continuous, 12,000 RPM Intermittent
Rotation	Clockwise or Counterclockwise
Temperature Limits	Low -40°C (-40°F) High 125°C (257°F)
Polarity	Negative Ground
Mounting	SAE J180 Standard, J180 Quad Mount, PAD Mound
Efficiency	68%
Weight	25.4 lbs (11.5 kg)

## 12V PERFORMANCE CURVES



## INSTALLATION INFORMATION



## WARRANTY

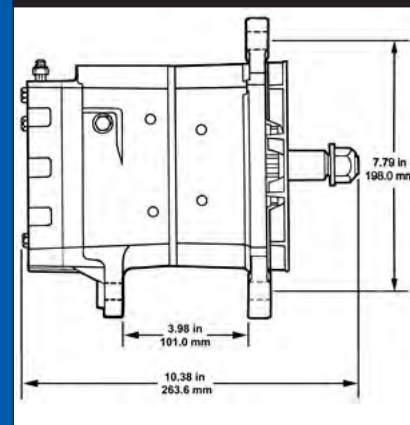
OE	3 Years / 350,000 Miles
Reman	2 Year / 250,000 Miles

Details can be found at [delcoremy.com](http://delcoremy.com)

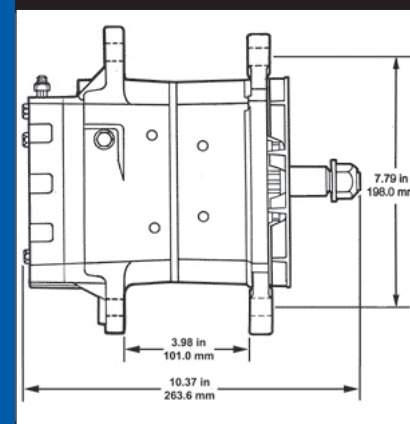
## MOUNTING STYLES

The 36SI is available in three different mounting configurations: a J180 hinge mount, a J180 quad mount and a pad mount. The images above provide the critical dimensions for each mounting style. The photos below will aid in core identification.

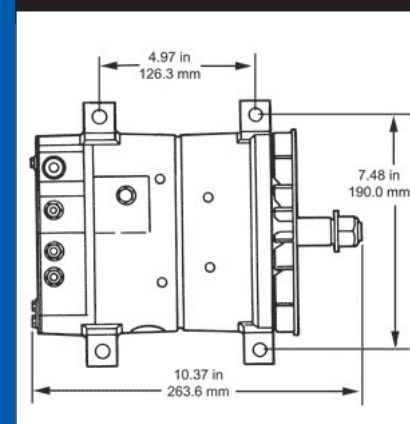
### J180 HINGE MOUNT



### J180 QUAD MOUNT



### PAD MOUNT



PAD MOUNT Distance between bolt-hole centers 8.50 in (216.0 mm)  
J180 SHORT HINGE & QUAD MOUNT Distance between bolt-hole centers 7.79 in (198.0 mm)




# Competitive Comparison / Cross Reference

## UPGRADE OLDER ALTERNATOR MODELS TO THE 36SI.

Consolidate part numbers and reduce your inventory to only three new service or reman models. (Core exchange accepted by mounting style with the reman upgrade.)



Part numbers fast at [delcoremy.com](http://delcoremy.com)

AFTERMARKET UPGRADE/REPLACEMENT STRATEGY									
36SI UPGRADE	35SI OE/ New Svc	35SI Reman	36SI OE/ New Svc	36SI Reman	36SI HP New Svc	36SI HP Reman	PACCAR	Leece Neville	Denso
<b>From</b> 33SI 35SI 36SI  HINGE MOUNT  	8600064	8700000	8600072	8700041	8600126	8700046	D27-6001-0130J	110-800	101211-8050
	19011227	8700005	8600082				110-801	101211-8060	
	19011228	8700016	8600197				110-802	101211-8120	
	19011229	8700023					110-803		
	19011231	8700024					110-804		
	19011232	8700026					BLD2301		
	19011233	8700028					BLD2302		
	19011248	10459606					BLD2305		
	19011260	10459609					BLD2307		
	19011263	10459612					BLD2308		
	19011264								
<b>From</b> 34SI 35SI 36SI  QUAD MOUNT  	8600065	8700006	8600071		8600125	8700045			
	19011234	8700003							
	19011244	8700017							
	19011246	8700025							
	19011247	8700027							
	19011249	8700029							
	19011255	10459607							
	19011261	10459610							
	19011265	10459613							
19011266									
<b>From</b> 34SI 35SI 36SI  PAD MOUNT  	8600066	8700001	8600015	8700039	8600127	8700047	D27-6001-1030P	110-810	101211-8380
	19011252	8700002	8600060	8700040			110-811	101211-8390	
	19011253	8700004	8600073	8700067			110-812		
	19011258	8700007	8600082				110-813		
	19011262	8700018	8600171				110-814		
	19011267	8700030	8600202				110-815		
	19011268	10459608	8600203				110-816		
	19011272	10459611	8600248				BLP2303		
	19011273	10459614	8600252				BLP2304		
			8600367				BLD2305		
			8600488				BLD2306		
							BLD2309		
							BLD2310		
							BLD2311		
							BLD2312		
36SI 24V Pad Mount Model					8600323				

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# 39MT™

HEAVY DUTY GEAR REDUCTION STARTER



WE START THE WORLD & KEEP IT RUNNING™

# 39MT™

Aftermarket Service Program  
New Rotatable Flange™ Models

A few part numbers covering virtually every engine.

Reduce your inventory costs with the Delco Remy 39MT All Makes Program.

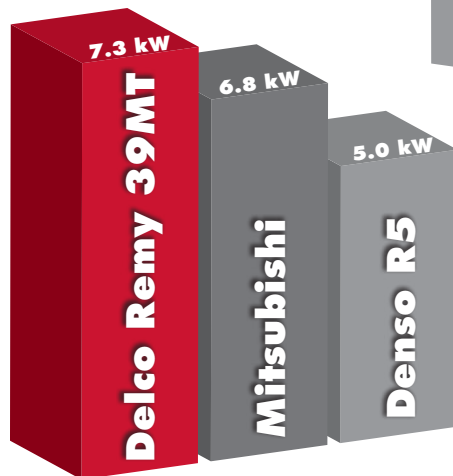
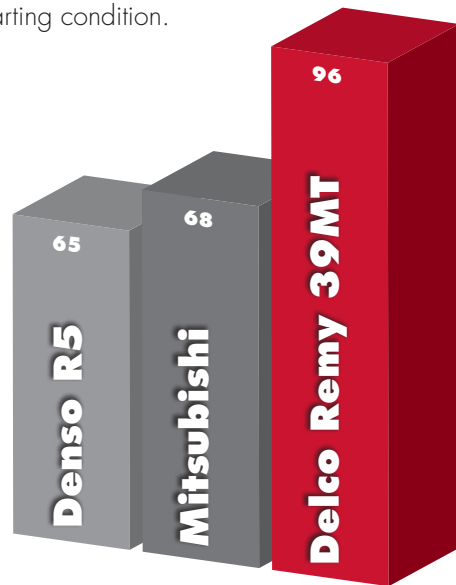
Warranty:  
3 year/unlimited miles

All the new Delco Remy service models come standard with Over Crank Protection (OCP). OCP monitors the internal temperature and prevents thermal damage to the starter by preventing overcranking.

These models also feature an Integral Magnetic Switch (IMS). IMS reduces voltage drop and ensures the solenoid receives the maximum available voltage in any starting condition.

## CRANKING SPEED PERFORMANCE

The Delco Remy 39MT engine cranking speed (RPM) is 30% faster than other starters on the market.



## COLD TEMPERATURE PERFORMANCE

In peak power output at -20°C testing, the Delco Remy 39MT not only met but exceeded the competition handsdown.



OEM	Engine	Delco Remy OE #	Delco Remy Reman #	New Service #	All Makes Rotatable Flange #	Pinion Pitch/Teeth	Competitive Cross Reference (Mitsubishi)
Freightliner Sterling Western Star	MBE 4000	19011514, 8200690	8300013	8200287 *	8200434	Mod 3 - 12 tooth	MIB971179, MIB971179FL, FL1179
		19011525, 8200687	8300008				
		8200082, 8200660	8300008				
		8200084, 8200624	8300013				
	Cummins ISC, ISL	19011517, 8200691	8300015	N/A	8200433	8/10 - 12 tooth	N/A
		19011526, 8200688	8300007				
		8200087, 8200625	8300015				
		8200081, 8200659	8300007				
	CAT C15, Cummins ISX, ISM, Detroit S60	19011516, 8200627	8300019	8200289	8200308	6/8 - 11 tooth	MIB970975, MIB970975FL, FLO975, MIB970777, MIB970777FL, FLO777, FLO579
		19011518, 8200692	8300019				
19011530, 8200623		8300019					
19011521, 8200686		8300009					
8200091, 8200662		8300009					
8200090, 8200661		8300009					
Detroit DD13/15	8200329, 8200671	8300084 **	N/A	8200434	Mod 3 - 12 tooth	N/A	
Navistar	Cummins ISX, ISM, CAT C13, C15	8200050, 8200604	8300009	8200289	8200308	6/8 - 11 tooth	3815734C91, IN1478
		8200091, 8200605	8300009				
	DT466, DT570, HT570, Maxxforce DT, 9, 10	8200081, 8200659	8300007	N/A	8200433	8/10 - 12 tooth	MITIN1378
		8200218, 8200635					
		8200219, 8200664					
8200360, 8200672							
8200384, 8200639							
MaxxForce 11/13	8200210, 8200606	N/A	N/A	8200817	8/10 - 12 tooth	3667911C91, IN2178	
Kenworth Peterbilt	CAT C9, C10, C11, C12, C13, C15 Cummins ISX, ISM	19011529	8300019	8200290	8200308	6/8 - 11 tooth	D61-6002-004, D61-6002-008, PC0979, PC1479, PC1879, M983579
		8200050	8300009				
		8200090	8300009				
		8200104	8300019				
Cummins ISC, ISL	8200405 ***, 8200742 ***	N/A	8200742 ***	N/A	8/10 - 12 tooth	D61-6002-003, PC1379	
Mack	Mack E7	19011500	8300020	8200288	8200308	6/8 - 11 tooth	MK0077
		19011505	8300020				
		19011531	8300020				
		8200037	8300020				
	Mack MP7	8200223, 8200612	8300059	8200468	N/A	8/10 - 11 tooth	21001797, MK1075
	Mack MP8	8200214	8300060	8200417	N/A	8/10 - 12 tooth	21019460, MK2078, 21019460, MK2079
		8200572, 8200611					
Mack MP10	8200182, 8200610	8300061	8200469	8200433	8/10 - 12 tooth	21045969	
Cummins ISL, ISL-G	8200768	8300007	N/A	8200433	8/10 - 12 tooth	N/A	
Volvo	Volvo D12	19011515	8300004	8200291	8200433	8/10 - 12 tooth	WV0279
		8200186					
		8200058					
	Cummins ISX, ISM	19011516, 8200319	8300009	8200289	8200308	6/8 - 11 tooth	20851006, WV0776, WV0977
		19011517					
		8200087					
		19011530					
	8200091, 8200662						
	Volvo D11	8200223, 8200612	8300059	8200468	N/A	8/10 - 11 tooth	21001781, W1076
	Volvo D13	8200214	8300060	8200417	N/A	8/10 - 12 tooth	21019456, W2079
8200572, 8200611							
Volvo D16	8200182, 8200610	8300061	8200469	8200433	8/10 - 12 tooth	21001825, W1979	
Autocar	Cummins ISX, ISM	8200091	8300009	8200289	8200308	6/8 - 11 tooth	N/A
		19011530					
	Cummins ISC, ISL, ISL-G	8200218	8300007	N/A	8200433	8/10 - 12 tooth	N/A
8200219							
Prevost Bus	24V Detroit S60	N/A	N/A	N/A	8200330	6/8 - 11 tooth	510752, PV2479
MCI Bus	24V Detroit S60, Cummins ISM, CAT C12, C13	N/A	N/A	N/A	8200330	6/8 - 11 tooth	71-01-1008, MC2378
Various 24V	CAT C12, C13, C15, Cummins ISM, ISX, N14, Detroit S60, Mack E7				8200330	6/8 - 11 tooth	N/A
	Cummins ISB, ISC, ISL, Navistar DT466, DT530, Volvo D12				8200435	8/10 - 12 tooth	
	Mercedes 4000, Detroit DD13, 15				8200436	Mod 3 - 12 tooth	

\* The replacement starter may mount the engine with the solenoid facing down by design.  
 \*\* Replaces reman part # 8300058. \*\*\* Integrated OCP



Part numbers fast  
at delcoremy.com

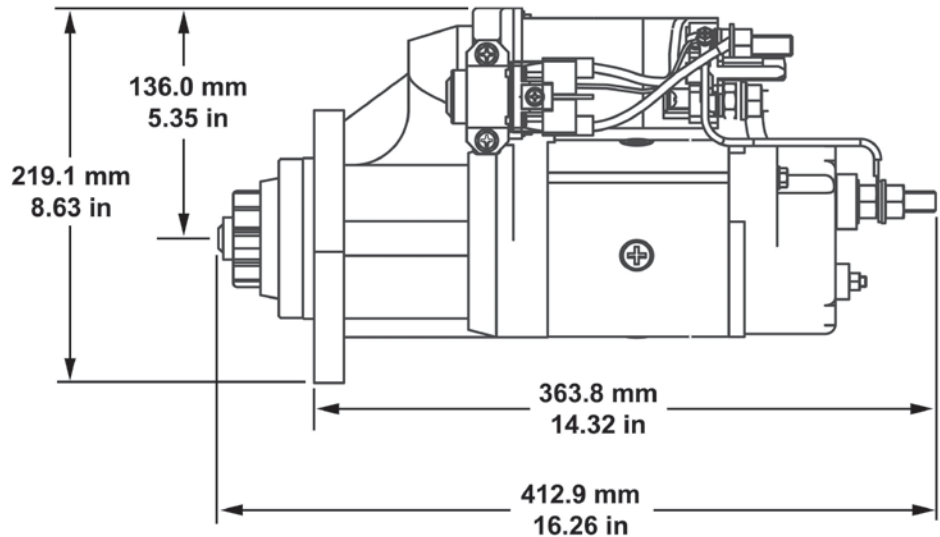


# Specifications

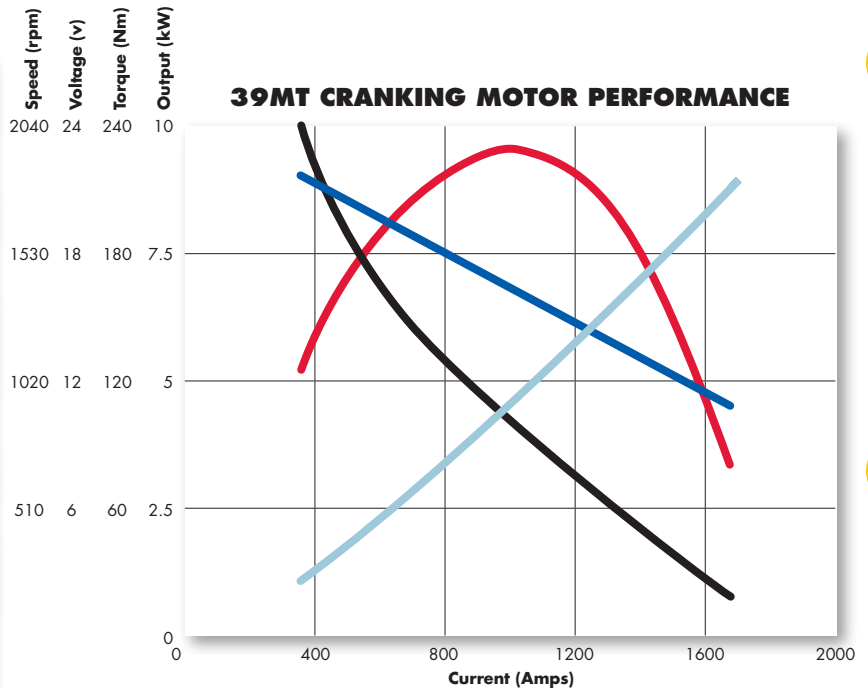


The new rotatable flange models were designed specifically to improve service flexibility and part number consolidation.

The new service models easily replace competitive units and provide full industry application coverage.



39MT SPECIFICATIONS ALL MAKES	
<b>Engine Size</b>	12V up to 16 Liters 24V up to 16 Liters
<b>Rotation</b>	Clockwise
<b>Mounting</b>	12V: SAE #1, SAE #3 24V: SAE #3
<b>Pinion Data</b>	SAE: No. Teeth (Pitch) 11 (6-8) SAE: No. Teeth (Pitch) 12 (8-10) SAE: No. Teeth (Pitch) 12 (Mod 3-metric)
<b>Output</b>	12V peak at 7.3kW 24V peak at 9.0kW
<b>Weight</b>	14 kg / 30.8 lbs.
<b>Diameter</b>	114 mm / 4.5 inches
<b>Heavy Duty Drive</b>	Electrical Soft-Start Engagement System Overrunning Clutch
<b>Overcrank Protection</b>	Built-in circuit breaker protects starter from thermal damage and automatically resets at safe operating temperature



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# 4051™

HEAVY DUTY BRUSHLESS ALTERNATOR



WE START THE WORLD & KEEP IT RUNNING™

**40SI™**

**High output and high efficiency equals fuel savings and long life**

**Delco Remy Heavy Duty Brushless Alternators have fewer moving parts.**

Fewer moving parts mean less wear on the alternator. What you end up with is longer life, not to mention the best warranty in the industry to back it.



**HIGH EFFICIENCY TRANSLATES TO LESS ENGINE HORSEPOWER REQUIREMENTS, RESULTING IN SUBSTANTIAL FUEL SAVINGS.**

Real time operating data was collected on several vehicle applications for the overall vehicle and electrical system. The following chart shows the fuel cost savings over a typical life cycle by increasing the alternator efficiency from 60% to 70%.

FUEL SAVINGS				
Vehicle Type & Miles Driven	Average Current	Fuel Cost with a 60% Efficient Alternator	Fuel Cost with a 70% Efficient Alternator (40SI)	Savings
Line Haul Tractor (500k mi)	84 Amps	\$4,534	\$3,778	\$756
City Tractor (350k mi)	40 Amps	\$2,235	\$1,863	\$372
School Bus (250k mi)	102 Amps	\$9,040	\$7,533	\$1,057

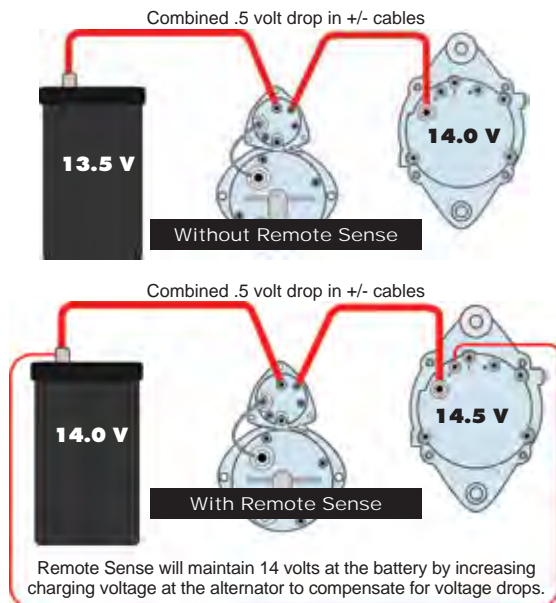
*Based on diesel fuel at \$4/gal*

**REMOTE SENSE CAN REDUCE BATTERY CHARGE TIME BY 50%**

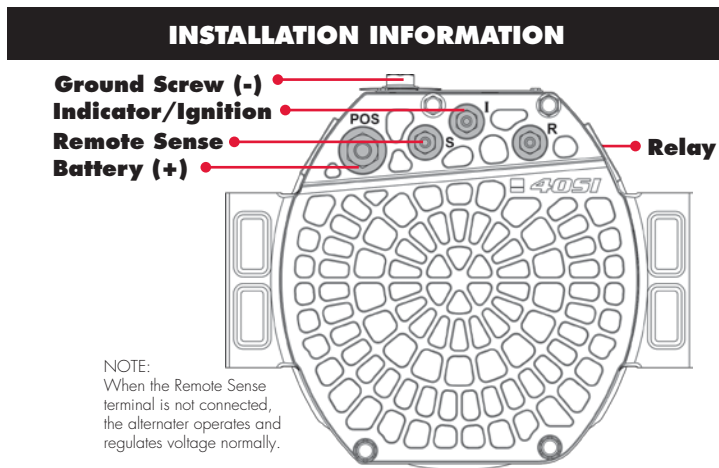
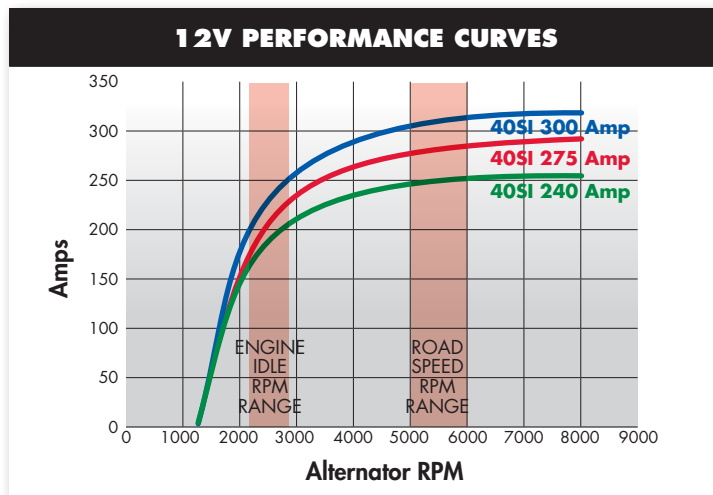
Due to resistance in battery cables, environmental factors and other conditions, the voltage from the alternator drops by the time it reaches the battery. Just because the alternator is sending 14 volts doesn't mean that the battery is receiving 14 volts.

That's why we've included Remote Sense on all models. With Remote Sense, a second wire reads the actual voltage at the battery and signals the alternator to boost its output to compensate for voltage drop ensuring 14 volts at the battery.

Research has shown that an increase of just ½ volt, when needed, can cut the battery charge time in half. At the end of the day, it can make the difference between batteries that are fully charged and those that aren't.



SPECIFICATIONS	
Performance Output	12 Volts 240 Amps (160 Amps at engine idle) 12 Volts 275 Amps (180 Amps at engine idle) 12 Volts 300 Amps (190 Amps at engine idle)
Maximum Speed	8,000 RPM Continuous 10,000 RPM Intermittent
Rotation	Clockwise
Temperature Limits	Low -40°C (-40°F) High 125°C (257°F)
Polarity	Negative Ground
Mounting	J180 Short Hinge Mount J180 Long Hinge Mount Pad Mount
Efficiency	70%
Weight	31 lbs (14.1 kg)



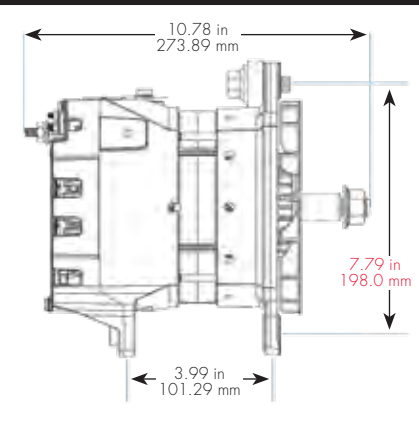
### AFTERMARKET WARRANTY

3 Years / Unlimited Miles

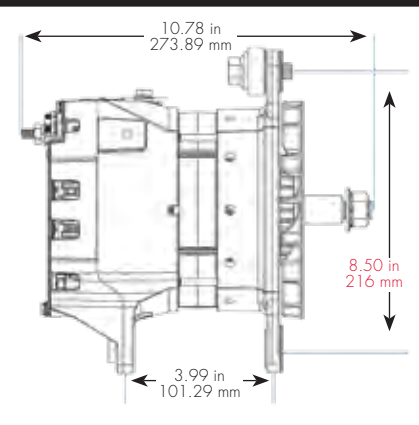
## MOUNTING STYLES

The difference between the J180 hinge mount styles is in the distance separating the bolt holes at the front of the alternator. Use an accurate ruler or the gauge at the right edge of this page to measure your existing unit.

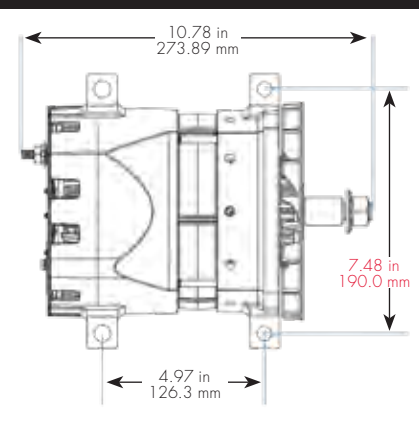
### J180 SHORT HINGE MOUNT



### J180 LONG HINGE MOUNT



### PAD MOUNT



J180 LONG HINGE MOUNT Distance between bolt-hole centers 8.50 in (216.0 mm)

J180 SHORT HINGE MOUNT Distance between bolt-hole centers 7.79 in (198.0 mm)

# Competitive Comparison / Cross Reference



## 40SI™

Raising the bar  
for high output  
alternators

SIDE-BY-SIDE COMPARISON		
Specs	40SI	Leece Neville
Design	Brushless	Brush
Temperature Rating	125°C	110°C
Average Efficiency	70%	60%
Weight	31 lbs (14.1 kg)	32 lbs (14.4 kg)
Stator Diameter	152 mm	167 mm
Length	252 mm	272 mm
Remote Sense	Yes	No



Part numbers fast  
at [delcoremy.com](http://delcoremy.com)

COMPETITIVE INTERCHANGE DATA					
Mounting	Delco Remy 40SI		Leece-Neville		
	Part #	Output (Amps)	Part #	Sales #	Output (Amps)
Pad	8600338	240	BLP2332GH	BLP2332GH	185
			BLP2334GH	BLP2334GH	
			A0014940PA	4940PA	200
			A0014948PA	4948PA	
			A00149551PGH	4951PGH	
			A0014958PA	4958PA	220
	A0014959PA	4959PA			
	8600094	275	A0014942PA	4942PA	270
			A0014944PA	4944PA	
			A0014947PA	4947PA	
			A0014949PA	4949PA	
			A0014949GH	4949GH	
	8600298	300	A0014975PAA	4975PAA	320
			A0014962PA	4962PA	
			A0014962PAH	4962PAH	
J180 Short Hinge	8600339	240			
	8600279	275			
	8600299	300			
J180 Long Hinge	8600390	240	A0014850AA	4850AA	200
			A0014860AA	4860AA	
			A0014860JB	4860JB	
			A0014861JB	4861JB	
			A0014863JB	4863JB	
			A0014868JGH	4868JGH	220
			A0014884JB	4884JB	
			A0014885JB	4885JB	
			A0014887JB	4887JB	240
			A0014852AA	4852AA	245
	A0014869JB	4869JB	250		
	A0014873JB	4873JB			
	A0014854AA	4854AA			
	8600280	275	A0014856AA	4856AA	270
			A0014867JB	4867JB	
			A0014867JGH	4867JGH	
			A0014870AA	4870AA	
			A0014870JB	4870JB	
			A0014871JB	4871JB	
			A0014872AA	4872AA	
	A0014872JB	4872JB	320		
A0014890AA	4890AA				
A0014890JB	4890JB				
8600300	300	A0014892AA	4892AA		

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Remy Inc.  
600 Corporation Drive  
Pendleton, IN 46064 USA  
For Technical Assistance call 1-800-372-0222



[delcoremy.com](http://delcoremy.com)



**PUBLIC TRANSPORTATION**  
**Transit, Coach & Shuttle Bus**  
**Alternators, Starters & Service Parts**





Delco Remy heavy duty starters and alternators have been powering bus applications for over 50 years. Today, we offer a complete range of power for all public transportation diesel buses.

Genuine Delco Remy starters and alternators have provided the power, durability, and the service support for over 100 years.

**Delco Remy is the brand you can trust.**

## Transit & Coach Applications

### 50DN – 270 Amp 24 Volt

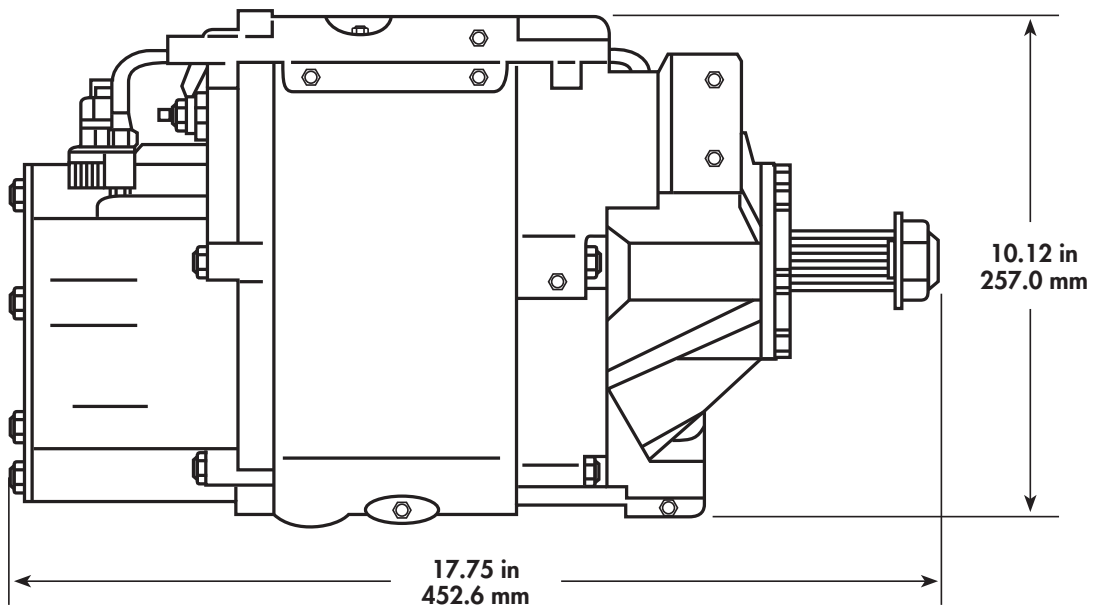
The Delco Remy 50DN is the original alternator designed specifically for transit and coach applications. The 50DN delivers over 75% of rated output at engine idle therefore managing high continuous electrical loads found on bus applications. The 50DN is supported with a service parts program for economical service repair.

- Durable brushless design
- Oil cooled for long life
- Completely sealed to withstand the external environment

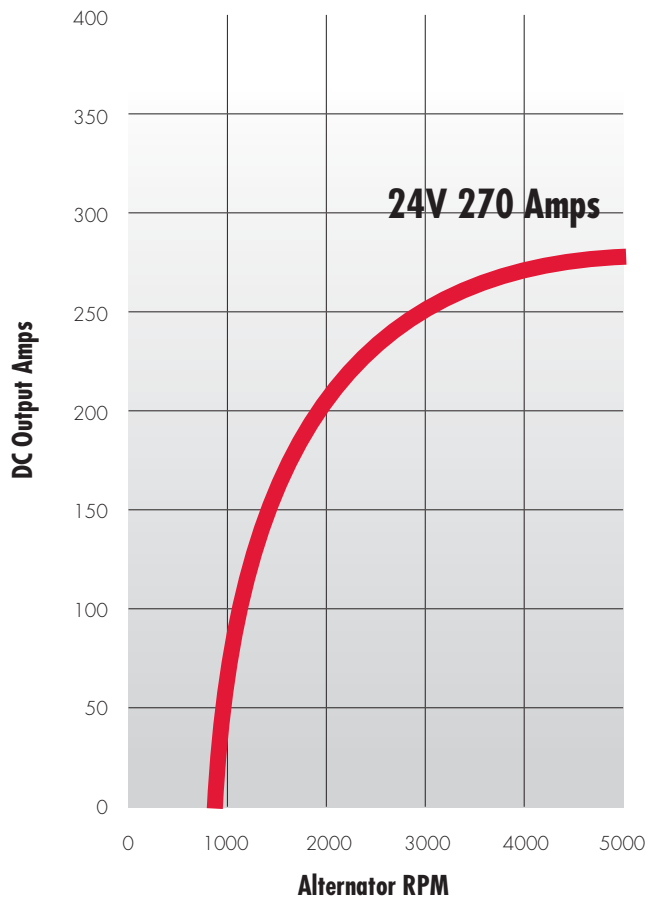
50DN SPECIFICATIONS	
Maximum Speed	6,500 RPM continuous / 7,000 RPM intermittent
Rotation	Clockwise or counterclockwise
Temperature Rating	250°F (121°C)
Performance Output	270 Amps - 24 volt
Weight	100 lbs (45.3 kg)
Mounting	Radius pad (belt drive), flange (gear drive)
Oil Flow Requirements	Up to 2.0 gal/min (provide min. 1" drain line) positive vent connection

Warranty: 1 year / unlimited miles





### 50DN PERFORMANCE CURVE



### 50DN MODELS

New Service Belt Drive	8600191
Reman Belt Drive	10459123



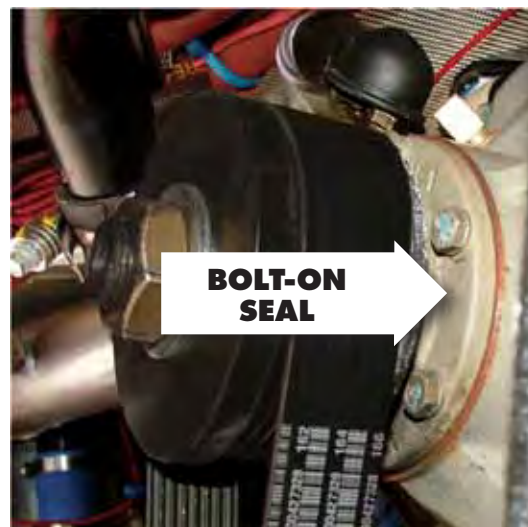
Comprehensive parts list and installation instruction sheets available at [delcoremy.com](http://delcoremy.com).

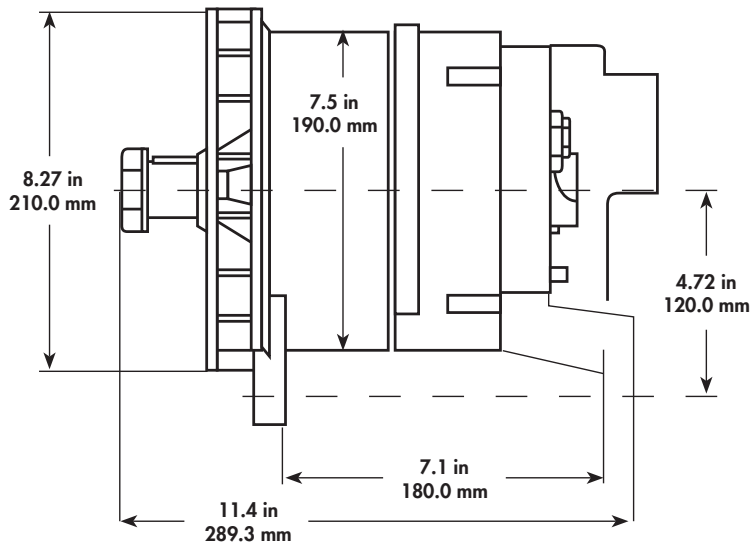
## Transit & Coach Applications

50VR REGULATOR		
OE Number	Service Number	Description
8600028	10503805	Terminals & Temperature Compensated
8600025	8600025	Single Connector
8600024	8600024	Single Connector
8600026	10503806	Terminals
8600027	10504491	Terminals & Cover
10510919	10512460	Capacitor

50DN SERVICE KITS & KEY REPLACEMENT PARTS	
Service Kits	Part Number
Master Rebuild Kit	10502551
Master Repair Kit	10457790
Cover - End Plate Kit	10457148
Field Coil	10471614
Rotor	1956315
Stator	10502989
Bolt-On Seal Kit*	10514967
Press-In Seal Kit Retrofit from Bolt-On*	10524488
Press-In Seal Kit*	10524486

\*See the images to identify the seal design. The press-in style is most current.



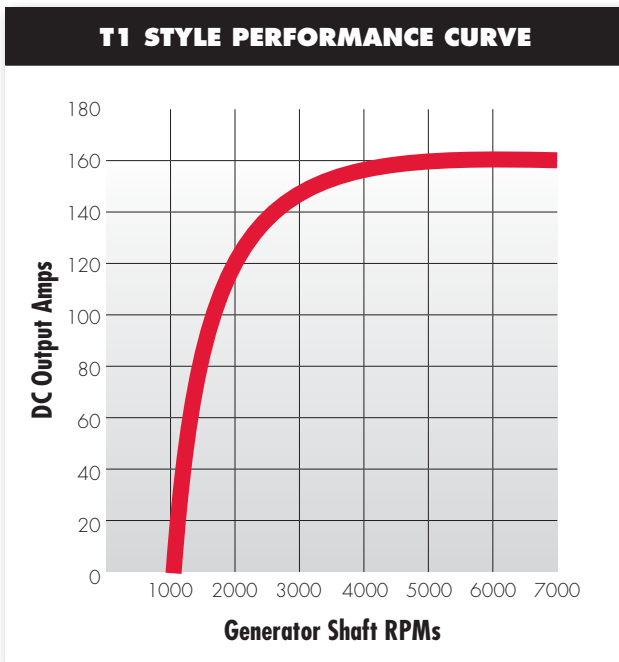


## Delco Remy Replacement for T1 Style Alternator.

The T1 style alternator is a high quality, new service unit designed specifically for the motor coach market.

T1 STYLE SPECIFICATIONS	
Maximum Speed	7,000 RPM
Rotation	Clockwise or counterclockwise
Temperature Rating	212°F (100°C)
Performance Output	140 Amps - 24 volt
Weight	33 lbs (14.8 kg)
Mounting	T1 type

Warranty: 1 year / unlimited miles



T1 PART #	DELCO REMY PART #
0-986-038-290	19025330
0-986-037-420	
0-986-034-910	
0-986-033-550	
0-986-033-520	
0-986-031-600	
0-120-689-571	
0-120-689-545	
0-120-689-535	
0-120-689-533	
0-120-689-530	
0-120-689-520	
0-120-689-513	
0-120-689-512	
0-120-689-508	
0-120-689-503	19025331
0-986-034-610	
0-120-689-548	
0-120-689-511	19025333
0-986-039-530	
0-120-689-567	
0-120-689-546	
0-120-689-542	
0-120-689-541	
0-120-689-540	
0-120-689-527	
0-120-689-522	
0-120-689-517	
0-120-689-507	19025335
0-986-039-140	
0-120-689-526	
0-120-689-506	19025336
0-120-689-566	19025337
0-120-689-552	





## 39MT Heavy Duty Gear Reduction Starter

Three part numbers cover virtually every engine. The new rotatable flange design provides full industry and application coverage.

Delco Remy high output alternators are specially designed to contend with the demanding electrical loads of diesel shuttle bus operating routines.

Add to that the fuel savings opportunity, high temperature ratings and proven technologies like Remote Sense and you've got alternators in a class by themselves.

### 39MT PRODUCT CROSS REFERENCE

24V Engine	New Service Rotatable Flange Models	Pinon Data
CAT C12, C13, C15 Cummins ISM, ISX, N14 Detroit S50, S60 Mack E7	8200330	Teeth (Pitch) 11 (6-8)
Cummins ISB, ISC, ISL Navistar DT466, DT530 Volvo D12	8200435	Teeth (Pitch) 12 (8-10)
Mercedes 4000 Detroit DD13, 15	8200436	Teeth (Pitch) 12 (Mod 3-metric)

Warranty: 1 year / unlimited miles

## Diesel Shuttle Bus Applications

### 28SI & 40SI SPECIFICATIONS

	28SI	40SI
<b>Performance Output</b>	160, 180, 200	240, 275, 300
<b>Maximum Speed</b>	10,000 RPM Continuous 12,000 RPM Intermittent	8,000 RPM Continuous 10,000 RPM Intermittent
<b>Rotation</b>	Clockwise	Clockwise
<b>Temperature Ratings</b>	Low -40°C (-40°F) High 125°C (257°F)	Low -40° C (-40° F) High 125° C (257° F)
<b>Polarity</b>	Negative Ground	Negative Ground
<b>Mounting</b>	J180 Short Hinge Mount J180 Long Hinge Mount Pad Mount	J180 Short Hinge Mount J180 Long Hinge Mount Pad Mount
<b>Weight</b>	18.7 lbs (8.5 kg)	31 lbs (14.1 kg)
<b>Aftermarket Warranty</b>	1 Year/Unlimited Miles	3 Years/Unlimited Miles

### 28SI & 40SI COMPETITIVE COMPARISON

	28SI	40SI	Leece Neville	Bosch
<b>Remote Sense</b>	Yes	Yes	No	No
<b>Peak Efficiency</b>	68%	70%	60%	68%
<b>Output at Temperature Ratings</b>	Full Output 125°C (257°F)	Full Output 125° C (257° F)	Full Output 110° C (230° F)	No Output 125°C (257°F)*
<b>All Three Industry Mounting Styles</b>	Yes	Yes	No	No**

\*Bosch regulator will shut down before 125°C, resulting in no alternator output

\*\* Requires additional purchase of installation kit in order to accommodate the long hinge mount style

**COMPETITIVE CROSS REFERENCE**

Delco Remy				Leece-Neville	
Model	Part #	Output	Mounting	Part #	Output
28SI	8600314	200	Pad	4939AAH	185
				4939PGH	185
				4943PGH	185
				4945AAH	185
				BLP2332GH	185
				BLP2334GH	185
				4940PA	200
				4948PA	200
				4951PGH	200
				4923PAH	220
				4958PA	220
4959PA	220				
28SI	8600307	200	J-180 Hinge	4836AAH	185
				4836LGH	185
				4846AAH	185
				2331GH	185
				2333GH	185
				4850AA	200
				4860AA	200
				4860JB	200
				4861JB	200
				4863JB	200
				4868JGH	200
				4884JB	200
				4885JB	220
4887JB	220				
40SI	8600094	275	Pad	4942PA	270
				4944PA	270
				4947PA	270
				4949PA	270
				4949GH	270
				4967PGH	270
				4975PAA	270
40SI	8600280	275	J-180 Hinge	4856AA	270
				4867JB	270
				4867JGH	270
				4870AA	270
				4870JB	270
				4871JB	270
				4872AA	270
				4872JB	270
				4949PA	270
				4949PGH	270
				4975PAA	270
40SI	8600298	300	Pad	4962PA	320
				4962PAH	320
				4966PAA	320
40SI	8600300	300	J-180 Hinge	4890AA	320
				4890JB	320
				4892AA	320



**28SI™**



**40SI™**



Ensure a clean start every time with Delco Remy starters equipped with the electrical soft-start engagement system. Delco Remy starters are lightweight in design while still providing the power for industry leading performance.



DIESEL SHUTTLE BUS CHASSIS			
Chassis OEM	Engine	Starter Model	Starter Part #
Freightliner	Cummins ISB 5.9	29MT	19011400
	Cummins ISB 6.7		8200196
	MB 904 / 906		8200103
	Cummins ISC / ISL	38MT	8200005
	CAT 3126		8200076
	CAT C7		8200075
	MB 926		8200075
Navistar	VT 365	29MT	19011407
	DT466	38MT	8200005
	T444E		8200007
	DT530	39MT	8200433

SPECIFICATIONS			
	29MT	38MT	39MT
Engine Size	12V up to 6.6L	12V up to 10L	12V up to 15L
Performance	3.3 kW	4.6 kW	7.2 kW
Weight	17.6 lbs (8 kg)	27.6 lbs (12.5 kg)	30.21 lbs (13.7 kg)
Mounting	SAE #1	SAE #1, SAE #3	SAE #1, SAE #3
Pinions	9-tooth/Module 3 10-tooth/8-10 pitch 10-tooth/10-12 pitch 11-tooth/Module 3	10-tooth/8-10 pitch 12-tooth/8-10 pitch 11-tooth/Module 3	11-tooth/6-8 pitch 12-tooth/8-10 pitch 12-tooth/Module 3
Supports Wet & Dry Clutch Applications	✓	✓	✓
Aftermarket Warranty	1 Year Unlimited Miles	1 Year Unlimited Miles	1 Year Unlimited Miles

Remy Inc. is a leading global manufacturer of Delco Remy brand heavy duty starters and alternators, light duty starters, and electric motor technology for EV and hybrid vehicles. A powerful legacy for over 100 years, today Remy International is engineering the future of the vehicle industry.



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**SCHOOL TRANSPORTATION  
ALTERNATORS & STARTER MOTORS**





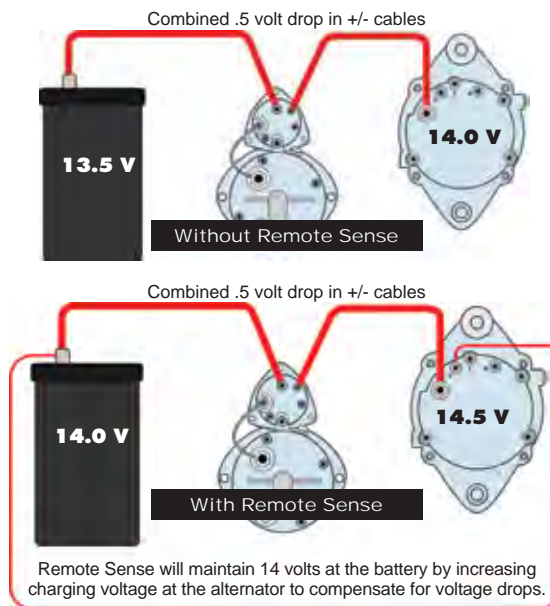
Delco Remy high output alternators are specially designed to contend with the demanding electrical loads of school bus operating routines. Add to that the fuel savings opportunity, high temperature ratings and proven technologies like Remote Sense and you've got alternators in a class by themselves.

### School buses present a unique set of challenges.

A school bus performs the majority of its workday at slow speeds. At the same time, lighting and equipment associated with safety and passenger mobility add electrical loads that must be met at these same slow speeds.

#### Remote Sense Can Reduce Battery Charge Time by 50%

The Delco Remy high output alternators are equipped with Remote Sense which utilizes a second wire that reads the actual voltage at the battery. This signals the alternator to boost its output to compensate for the voltage drop, ensuring 14 volts at the battery. The proper voltage at the battery forces more current into the battery bringing the battery up to a full state of charge during the school bus runs between stops.



#### Designed for Extreme Temperatures & Long Life

No other school bus alternator on the market today can perform like the Delco Remy high output alternators. Both the 28SI and 40SI models withstand extreme underhood temperature demands of up to 257°F – that's over 25°F above the competition – and still keep running.

#### High-Efficiency Alternators Equals 20% Fuel Savings

An efficient alternator on a school bus can more than pay for itself in less than one year. Over the life of the vehicle, these savings can reach in the thousands of dollars.

As the alternator becomes more efficient in the process of converting mechanical power into electrical power, less fuel is consumed. And even though the power demands of the alternator are generally small in comparison to the overall vehicle, the impact on fuel cost is remarkable.







COMPETITIVE COMPARISON				
	28SI	40SI	Leece Neville	Bosch
Remote Sense	Yes	Yes	No	No
Peak Efficiency	68%	70%	60%	68%
Output at Temperature Ratings	Full Output 125°C (257°F)	Full Output 125° C (257° F)	Full Output 110° C (230° F)	No Output 125°C (257°F)*
All Three Industry Mounting Styles	Yes	Yes	No	No**

\*Bosch regulator will shut down before 125°C, resulting in no alternator output

\*\* Requires additional purchase of installation kit in order to accommodate the long hinge mount style

Mount	Amp	Part #
Pad	160	8600315
Short Hinge	160	8600312
Long Hinge	160	8600308
Pad	180	8600316
Short Hinge	180	8600223
Long Hinge	180	8600311
Pad	200	8600314
Short Hinge	200	8600313
Long Hinge	200	8600307

SPECIFICATIONS		
	28SI	40SI
Performance Output	160, 180, 200	240, 275, 300
Maximum Speed	10,000 RPM Continuous 12,000 RPM Intermittent	8,000 RPM Continuous 10,000 RPM Intermittent
Rotation	Clockwise	Clockwise
Temperature Ratings	Low -40°C (-40°F) High 125°C (257°F)	Low -40° C (-40° F) High 125° C (257° F)
Polarity	Negative Ground	Negative Ground
Mounting	J180 Short Hinge Mount J180 Long Hinge Mount Pad Mount	J180 Short Hinge Mount J180 Long Hinge Mount Pad Mount
Weight	18.7 lbs (8.5 kg)	31 lbs (14.1 kg)
School Bus Aftermarket Warranty	2 Years/Unlimited Miles	3 Years/Unlimited Miles

## 40SI NEW SERVICE VS. REBUILT: 40SI New Service wins every time.

The typical life of a rebuilt high output alternator can be up to one year and will cost about half the price of a New Service 40SI

The 40SI New Service with a 3 year unlimited mile warranty means the 40SI will last at least three times longer than a rebuilt. In addition, repair time and possible towing charges are eliminated. The 40SI New Service is the most cost effective and dependable aftermarket option. The next time you need to replace an alternator, switch to Delco Remy.

### New Bus Specification Codes

#### ALTERNATORS

##### Blue Bird Bus

40SI 275 AMPS 10010645  
40SI 300 AMPS 10010646

##### IC Bus/Navistar

40SI 240 AMPS 08GHK  
40SI 300 AMPS 08GHJ

##### Freightliner/Thomas Built

28SI 160 AMPS 124-1D7  
28SI 180 AMPS 124-1D9  
28SI 200 AMPS 124-1E1  
40SI 240 AMPS 124-1E8  
40SI 275 AMPS 124-1E7

#### STARTERS

##### IC Bus/Navistar

38MT 08WTK

##### Freightliner/Thomas Built

38MT 155-058



40SI™

Mount	Amp	Part #
Pad	240	8600338
Short Hinge	240	8600339
Long Hinge	240	8600390
Pad	275	8600094
Short Hinge	275	8600279
Long Hinge	275	8600280
Pad	300	8600298
Short Hinge	300	8600299
Long Hinge	300	8600300



Ensure a clean start every time with Delco Remy starters equipped with the electrical soft-start engagement system. Delco Remy starters are lightweight in design while still providing the power for industry leading performance.



### DELCO REMY STARTER APPLICATIONS

OEM	Engine	Model	Part #
Thomas Built Bus	Cummins ISB 5.9	29MT	19011400
	Cummins ISB 6.7		8200196
	Cummins ISC / ISL	38MT	8200005
	CAT 3126		8200076
	CAT C7		8200075
	MB 926	29MT	8200103
MB 904/906			
Blue Bird	Cummins ISB 5.9	29MT	19011400
	Cummins ISB 6.7		8200196
	Cummins ISC	38MT	8200005
	CAT 3126		8200076
	CAT C7		
IC Bus (Navistar)	DT466	38MT	8200005
	DT530	39MT	8200081
	T444E (7.3L)	38MT	8200007
	VT365	29MT	19011407



### SPECIFICATIONS

	29MT	38MT	39MT
Engine Size	12V up to 6.6L	12V up to 10L	12V up to 15L
Performance	3.3 kW	4.6 kW	7.2 kW
Weight	17.6 lbs (8 kg)	27.6 lbs (12.5 kg)	30.21 lbs (13.7 kg)
Mounting	SAE #1	SAE #1, SAE #3	SAE #1, SAE #3
Pinions	9-tooth/Module 3 10-tooth/8-10 pitch 10-tooth/10-12 pitch 11-tooth/Module 3	10-tooth/8-10 pitch 12-tooth/8-10 pitch 11-tooth/Module 3	11-tooth/6-8 pitch 12-tooth/8-10 pitch 12-tooth/Module 3
Supports Wet & Dry Clutch Applications	✓	✓	✓
School Bus Aftermarket Warranty	1 Year Unlimited Miles	1 Year Unlimited Miles	1 Year Unlimited Miles

Remy Inc. is a leading global manufacturer of Delco Remy brand heavy duty starters and alternators, light duty starters, and electric motor technology for EV and hybrid vehicles. A powerful legacy for over 100 years, today Remy International is engineering the future of the vehicle industry.



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**TRANSPORT REFRIGERATION UNIT  
& AUXILIARY POWER UNIT  
STARTERS & ALTERNATORS**





**BROUGHT TO YOU BY REMY INTERNATIONAL, INC.**  
Provider of Delco Remy Heavy Duty Starters & Alternators



## **Auxiliary Power Unit Alternators & Starters** \_\_\_\_\_ **4**

This section is a listing of alternator and starter part numbers by model, year and engine.

## **Transport Refrigeration Alternators** \_\_\_\_\_ **5**

This section is a listing of alternator part numbers by make, model, year and engine.

## **Transport Refrigeration Starters** \_\_\_\_\_ **10**

This section is a listing of starter part numbers by make, model, year and engine.

## **Buyer's Guide** \_\_\_\_\_ **14**

This section identifies units on specific applications and includes photos of part numbers for identification.

## **Cross Reference** \_\_\_\_\_ **23**

This section identifies replacement units for competitive and OE models.

NOTE: Interchange by using a competitor part number is not positive identification. Certain competitor part number interchanges are included at popular request, but absolute correlation is not possible. No responsibility is assumed by remanufacturer or publisher for consequential or other damages which may arise from reliance on a competitor part number to make identification.

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Any reference to part numbers or manufacture company names listed throughout this catalog are for reference purposes only and are in no way indicative of the origin of the goods.



# How to use this catalog

## Carrier Transicold - Truck Units

## Alternators

Year	Engine	Option	Volt	AMP	Part No.
<b>Eagle Plus</b>					
All	Kubota CT4-114 (V1902) Diesel		12	37	93010
All	Kubota CT4-114 (V1902) Diesel		12	65	93073
All	Kubota CT4-134 (V2203) Diesel		12	37	93010

### Column Headings:

**Year**..... Model/Engine year of vehicle

**Engine**..... Engine model or description and may include engine size by liters

**Option**..... Additional information needed to identify the application (i.e.: w/ CW Rot)

**Volt**..... Operating voltage of unit identified

**Amp**..... Amperage of unit supplied

**kW**..... Kilowatt rating of unit supplied

**Part No.**..... Alternator or Starter part number

## Descriptive Abbreviations

**Amp**..... Amperage of Unit

**B+**..... Term – Battery Terminal

**BI**..... Bidirectional Fan

**BO**..... Bosch

**CW**..... Clockwise

**CCW**..... Counter Clockwise

**ND**..... Denso

**ER**..... External Regulator

**HI**..... Hitachi

**IR**..... Internal Regulator

**kW**..... Kilowatt rating

**Mfr**..... Manufacture

**PL**..... Prestolite

**PR**..... Paris Rhone

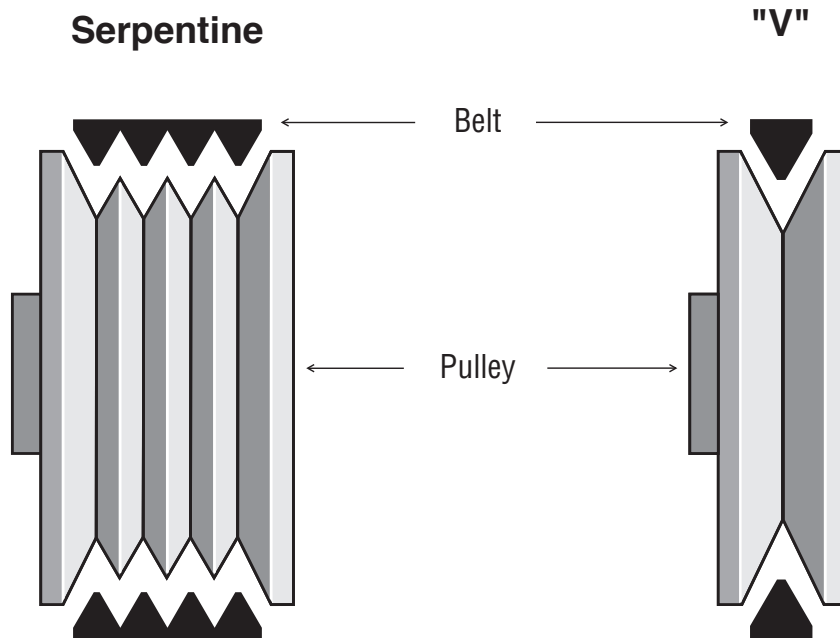
**Reg**..... Regulator

**Rot**..... Rotation

**Sw Term**... Solenoid Switch Terminal

**VA**..... Valeo

There are two designs of belts and pulleys found on modern vehicles:



- The alternator you have purchased may not have a pulley installed, or it may be the incorrect pulley for your application. It may be necessary to transfer the original pulley from the old alternator to the replacement alternator.
- The number of grooves in the belt must match the number of pulley grooves.
- Never use a V-belt with a serpentine pulley, or a serpentine belt with a V-pulley. Doing so may result in belt failure.
- The alignment of the alternator pulley to the other pulleys in the system is critical. Misalignment may result in belt wear and failure.
- Torque newly-installed pulley to 75-90 ft. lbs.

# Auxiliary Power Units (APU)

Auxiliary Power Units

## Alternators

## Auxiliary Power Units

Year	Engine	Model	Volt	Amp	Part No.
<b>Carrier Transicold</b>					
All	Kubota CT2-29TV (Z482-E2B) Diesel	ComfortPro PC5000	12	40	93096
All	Kubota CT2-29TV (Z482-E2B) Diesel	ComfortPro PC6000	12	60	93097
<b>Rigmaster</b>					
All	Perkins 402C-05 Diesel	14-6	12	60	93098
All	Perkins 402C-05 Diesel	T4-6	12	60	93098
All	Perkins 102-05 Diesel	104	12	40	93099
All	Perkins 102-05 Diesel	10-40	12	40	93099
<b>Thermo King</b>					
All	TK270	TriPac	12	65	93095
All	Yanmar 2TNV70	TriPac	12	65	93095

## Starters

## Auxiliary Power Units

<b>Carrier Transicold</b>					
All	Kubota CT2-29TV (Z482-E2B) Diesel	ComfortPro PC6000	12	0.7	93598
All	Kubota CT2-29TV (Z482-E2B) Diesel	ComfortPro PC5000	12	0.7	93598
<b>Rigmaster</b>					
All	Perkins 102-05 Diesel	104	12	0.8	93599
All	Perkins 102-05 Diesel	10-40	12	0.8	93599
All	Perkins 402C-05 Diesel	14-6	12	0.8	93599
All	Perkins 402C-05 Diesel	T4-6	12	0.8	93599
<b>Thermo King</b>					
All	TK270	TriPac	12	1.2	93597
All	Yanmar 2TNV70	TriPac	12	1.2	93597

# Transport Refrigeration Units

<b>Alternators</b>		<b>Carrier Transicold - Trailer Units</b>			
<b>Year</b>	<b>Engine</b>	<b>Option</b>	<b>Volt</b>	<b>Amp</b>	<b>Part No.</b>
<b>Eagle Plus</b>					
All	Kubota CT4-114 (V1902) Diesel		12	37	93010
All	Kubota CT4-114 (V1902) Diesel		12	65	93073
All	Kubota CT4-134 (V2203) Diesel		12	37	93010
All	Kubota CT4-134 (V2203-DI) Diesel		12	37	93010
All	Kubota CT4-134 (V2203-DI) Diesel		12	65	93073
All	Kubota CT4-134-TV (V2203-TV) Diesel		12	37	93010
All	Kubota CT4-134-TV (V2203-TV) Diesel		12	65	93073
<b>Europhoenix</b>					
All	Kubota CT4-114 (V1902) Diesel		12	65	93075
<b>Extra</b>					
All	Kubota CT4-114-TV (V1902-TV) Diesel	Reg Pos 12:00	12	65	93074
All	Kubota CT4-114-TV (V1902-TV) Diesel	Reg Pos 6:00	12	65	93090
All	Kubota CT4-134-TV (V2203-TV) Diesel	Reg Pos 12:00	12	65	93074
All	Kubota CT4-134-TV (V2203-TV) Diesel	Reg Pos 6:00	12	65	93090
<b>Genesis R70, R90</b>					
All	Kubota CT3-69-TV (D1105) Diesel		12	70	93076
<b>Genesis TM900, TM1000, TR 100</b>					
All	Kubota CT4-134-TV (V2203-TV) Diesel	Reg Pos 12:00	12	65	93074
All	Kubota CT4-134-TV (V2203-TV) Diesel	Reg Pos 6:00	12	65	93090
<b>Mistral Series</b>					
All	D600		12	70	93078
All	EA300		12	70	93076
All	Kubota CT3-52 (ZB600) Diesel		12	70	93078
All	Kubota CT3-57 (D950) Diesel		12	70	93078
All	ZB400		12	70	93076
<b>NDB40</b>					
All	Perkins 4.108 Diesel		12	37	93010
All	Mercedes OM636 Diesel		12	37	93010
<b>NDE40</b>					
All	Perkins 4.108 Diesel		12	37	93010
<b>NDF40</b>					
All	Kubota CT4-114 (V1902) Diesel		12	37	93010
<b>NDJ40</b>					
All	Kubota CT4-114 (V1902) Diesel		12	37	93010
All	Perkins 4.108 Diesel		12	37	93010

Alternators

Carrier Transicold - Trailer Units			Alternators		
Year	Engine	Option	Volt	Amp	Part No.
<b>NDS40, NDT40</b>					
All	Perkins 4.108 Diesel		12	37	93010
<b>Optima</b>					
All	CT4-91-TV 1.5L Diesel		12	65	93075
<b>Phoenix Advantage</b>					
All	All		12	37	93010
<b>Phoenix Ultra</b>					
All	Kubota CT4-134-TV (V2203-TV) Diesel		12	65	93075
<b>Phoenix Ultra XL</b>					
All	Kubota CT4-134 (V2203-DI) Diesel	Reg Pos 12:00	12	65	93074
All	Kubota CT4-134 (V2203-DI) Diesel	Reg Pos 6:00	12	65	93090
<b>Thunderbird</b>					
All	Kubota CT4-114-TV (V1902) Diesel		12	37	93010
All	Kubota CT4-114-TV (V1902) Diesel		12	65	93073
All	Kubota CT4-114 (V1902-DI) Diesel		12	37	93010
All	Kubota CT4-114 (V1902-DI) Diesel		12	65	93073
<b>UDE Series</b>					
All	Kubota CT4-114 (V1902) Diesel		12	37	93010
<b>UDG Series</b>					
All	Kubota CT4-114 (V1902) Diesel		12	37	93010
All	Mercedes OM636 Diesel		12	37	93010
All	Perkins 4.108 Diesel		12	37	93010
<b>Carrier Transicold - Truck Units</b>			<b>Alternators</b>		
<b>King Bird</b>					
1989-2001	Kubota CT3-57 (D950) Diesel		12	70	93078
<b>MD, RD, TD Series</b>					
All	All		12	65	93088
<b>Silver Hawk</b>					
1980-1992	Kubota CT2-35 Diesel		12	70	93078
<b>Starbird</b>					
1989-2000	Kubota CT3-37 (D600) Diesel		12	70	93078
<b>Starbird Plus</b>					
1993-2005	Kubota CT3-44 (D722) Diesel		12	70	93078
<b>Sunbird</b>					
1993-2005	Kubota CT2-35 (Z600) Diesel		12	70	93078



# Alternators

# Carrier Transicold - Truck Units

Year	Engine	Option	Volt	Amp	Part No.
<b>Supra Series</b>					
All	Kubota CT3-44-TV (D722-TV) Diesel		12	65	93090
All	Kubota CT3-69-TV (D1105) Diesel		12	65	93090

# Alternators

# Thermo King - Trailer Units

<b>HK, HK-II, HK-III</b>					
1992-On	TK 2.49 Diesel		12	23	93081
1992-On	TK 2.49 Diesel		12	37	93087
1992-On	TK 2.49 Diesel		12	65	93080
<b>HK-30, 60, 100</b>					
1980-On	TK 2.44 Diesel		12	37	93087
1980-On	TK 2.44 Diesel		12	65	93080
<b>LND 30</b>					
1983-On	Yanmar 353 (TK 3.53) Diesel		12	37	93049
1983-On	Yanmar 353 (TK 3.53) Diesel		12	51	93079
<b>LND 50</b>					
1991-On	Yanmar 353 (TK 3.53) Diesel		12	65	93070
<b>SB-190</b>					
1999-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93070
<b>SB-200, 210, 300, 310</b>					
All	Yanmar 486 (TK 4.86) Diesel		12	65	93070
<b>SB-I</b>					
1981-74	Isuzu 2.0L (TK C201) Diesel		12	51	93079
1981-74	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	51	93079
<b>SB-II</b>					
1991-On	Isuzu 2.0L (TK C201) Diesel		12	65	93070
1984-On	Isuzu 2.0L (TK C201) Diesel		12	37	93087
1984-On	Isuzu 2.0L (TK C201) Diesel		12	65	93080
1980-On	Isuzu 2.0L (TK C201) Diesel		12	37	93049
1980-On	Isuzu 2.0L (TK C201) Diesel		12	51	93079
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93070
1984-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	37	93087
1980-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	37	93049
1980-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	51	93079
<b>SB-II Max</b>					
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93070

Alternators

Thermo King - Trailer Units			Alternators		
Year	Engine	Option	Volt	Amp	Part No.
<b>SB-II SR</b>					
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93070
1998-On	Yanmar 486 (TK 4.86) Diesel		12	65	93070
<b>SB-III</b>					
1990-On	Isuzu 2.0L (TK C201) Diesel		12	23	93081
1980-89	Isuzu 2.0L (TK C201) Diesel		12	51	93079
1990-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	23	93081
1980-89	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	51	93079
<b>SB-III Max</b>					
1991-On	Isuzu 2.0L (TK C201) Diesel		12	65	93070
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93070
<b>SB-III SR</b>					
1999-On	Yanmar 486 (TK 4.86) Diesel		12	65	93070
1999-On	Yanmar 486 (TK 4.86) Diesel		12	120	93082
1993-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93070
<b>SDZ</b>					
1991-On	All		12	65	93070
<b>Sentry</b>					
1985-On	Isuzu 2.0L (TK C201) Diesel		12	37	93049
1985-On	Isuzu 2.0L (TK C201) Diesel		12	51	93079
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93070
1989-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	23	93081
1989-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93080
1985-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	37	93049
1985-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	51	93079
<b>SL 100, 200, 300, 400, SR2</b>					
All	Yanmar 486 (TK 4.86) Diesel		12	65	93070
<b>SMX, SMX II, SMX SR</b>					
1991-On	All		12	65	93070
<b>SNWD</b>					
1974-On	All		12	51	93079
<b>Super II</b>					
1983-On	Isuzu 2.0L (TK C201) Diesel		12	37	93087
1983-On	Isuzu 2.0L (TK C201) Diesel		12	65	93080
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93070
1983-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	37	93087
1983-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93080

**Alternators****Thermo King - Trailer Units**

Year	Engine	Option	Volt	Amp	Part No.
<b>Super II Max</b>					
1989-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	23	93081
1989-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	37	93087
1989-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93080
<b>Super II SR</b>					
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93070
<b>Super II TC</b>					
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	65	93070
1999-On	Yanmar 486 (TK 4.86) Diesel		12	65	93070
1999-On	Yanmar 486 (TK 4.86) Diesel		12	120	93082
<b>Super NWD</b>					
1984-On	Isuzu 2.0L (TK C201) Diesel		12	37	93049
1984-On	Isuzu 2.0L (TK C201) Diesel		12	51	93079
1984-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	37	93049
1984-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	51	93079
<b>TD-I</b>					
1980-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	37	93049
1980-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	51	93079
<b>TD-II</b>					
1980-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	37	93049
1980-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	51	93079
1989-On	Yanmar 388 (TK 3.88) Diesel		12	23	93081
1989-On	Yanmar 388 (TK 3.88) Diesel		12	37	93087
1989-On	Yanmar 388 (TK 3.88) Diesel		12	65	93080
<b>UMD</b>					
All	Kubota Diesel		12	40	93019
<b>URD</b>					
1996-On	Yanmar 353 (TK 3.53) Diesel		12	90	93083
<b>URD-III Max</b>					
1996-On	Yanmar 395 (TK 3.95) Diesel		12	90	93083

**Alternators****Thermo King- Truck Units**

<b>MD-II TCI</b>					
All	Yanmar 366 (TK 3.66) Diesel		12	65	93088
<b>RD-II TCI</b>					
All	Yanmar 395 (TK 3.95) Diesel		12	65	93088

# Carrier Transicold-Trailer Units

# Starters

Year	Engine	Option	Volt	kW	Part No.
<b>Eagle Plus</b>					
All	Kubota CT4-114 (V1902) Diesel		12	1.4	93549
All	Kubota CT4-114 (V1902-DI) Diesel		12	1.4	93549
All	Kubota CT4-134 (V2203) Diesel		12	1.4	93549
All	Kubota CT4-134 (V2203-DI) Diesel		12	1.4	93549
All	Kubota CT4-134-TV (V2203-TV) Diesel		12	1.4	93549
<b>Europhoenix</b>					
All	Kubota CT4-114 (V1902) Diesel		12	1.4	93549
<b>Extra</b>					
All	Kubota CT4-114 (V1902) Diesel		12	1.4	93588
All	Kubota CT4-114 (V1902) Diesel		12	2.2	93589
All	Kubota CT4-114 (V1902) Diesel		12	2.0	93590
All	Kubota CT4-114-TV (V1902-TV) Diesel		12	2.0	93590
All	Kubota CT4-134-TV (V2203-TV) Diesel		12	1.4	93588
All	Kubota CT4-134-TV (V2203-TV) Diesel		12	2.2	93589
<b>Genesis R70</b>					
All	Kubota CT3-44 (D722E) Diesel		12	1.4	93549
<b>Genesis TM900, 1000</b>					
All	Kubota CT4-134 (V2203-DI) Diesel		12	1.4	93588
All	Kubota CT4-134 (V2203-DI) Diesel		12	2.2	93589
All	Kubota CT4-134 (V2203-DI) Diesel		12	2.0	93590
<b>Genesis TR100</b>					
All	Kubota CT4-134 (V2203-DI) Diesel		12	1.4	93588
All	Kubota CT4-134 (V2203-DI) Diesel		12	2.2	93589
All	Kubota CT4-134 (V2203-DI) Diesel		12	2.0	93590
<b>Maxima</b>					
All	CT4-91-TV 1.5L Diesel		12	1.4	99746
<b>Mistral 410</b>					
All	Kubota ZB400		12	1.4	93594
<b>Mistral 700, 710</b>					
All	Kubota D600		12	1.4	93594
<b>Mistral 500, 605, 610, 650, 800, 900</b>					
All	Kubota CT3-52 (ZB600) Diesel		12	1.4	93594
<b>NDB40, NDF40, NDJ40, NDS40</b>					
All	Kubota CT4-114 (V1902) Diesel		12	1.4	93594
<b>Optima</b>					
All	CT4-91-TV 1.5L Diesel		12	1.4	99746

Starters

**Starters****Carrier Transicold-Trailer Units**

Year	Engine	Option	Volt	kW	Part No.
<b>Phoenix Advantage</b>					
All	All		12	1.4	93594
<b>Phoenix Ultra</b>					
All	Kubota CT4-134 (V2203-DI) Diesel		12	1.4	93588
All	Kubota CT4-134 (V2203-DI) Diesel		12	2.2	93589
All	Kubota CT4-134 (V2203-DI) Diesel		12	2.0	93590
All	Kubota CT4-134 TV(V2203-TV) Diesel		12	1.4	93588
All	Kubota CT4-134 TV(V2203-TV) Diesel		12	2.2	93589
All	Kubota CT4-134 TV(V2203-TV) Diesel		12	2.0	93590
<b>Phoenix Ultra XL</b>					
All	Kubota CT4-134 (V2203-DI) Diesel		12	1.4	93588
All	Kubota CT4-134 (V2203-DI) Diesel		12	2.2	93589
All	Kubota CT4-134 (V2203-DI) Diesel		12	2.0	93590
<b>Supra 322, 422, 444, 522, 544, 550</b>					
All	Kubota CT2-29-TV (D482-TV) Diesel		12	0.8	93595
<b>Thunderbird</b>					
All	Kubota CT2-29-TV (D482-TV) Diesel		12	0.8	93595

**Starters****Thermo King - Trailer Units**

<b>HK, HK-II, HK-III</b>					
1992-On	TK 2.49 Diesel		12	1.4	93553
<b>HK-30, 60, 100</b>					
1980-On	TK 2.44 Diesel		12	1.4	93553
<b>LND 30</b>					
1983-On	Yanmar 353 (TK 3.53) Diesel		12	1.4	93547
<b>LND 50</b>					
1991-On	Yanmar 353 (TK 3.53) Diesel		12	1.4	93547
<b>LND II 50</b>					
1991-On	Yanmar 388 (TK 3.88) Diesel		12	1.4	93550
<b>SB-190</b>					
1999-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
<b>SB-200, 210, 300, 310</b>					
1999-On	Yanmar 486 (TK 4.86) Diesel		12	2.0	93591
<b>SB-I</b>					
1974-81	Isuzu 2.0L (TK C201) Diesel		12	2.0	93552
1974-81	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584

Starters

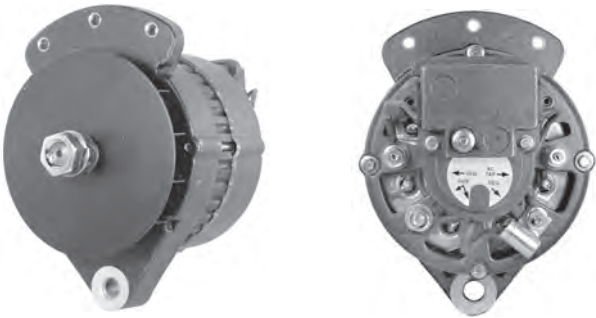
Thermo King - Trailer Units				Starters	
Year	Engine	Option	Volt	kW	Part No.
<b>SB-II</b>					
1980-On	Isuzu 2.0L (TK C201) Diesel	w/Denso Str	12	2.0	93552
1980-On	Isuzu 2.0L (TK C201) Diesel	w/Hitachi Str	12	2.0	93593
1980-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
<b>SB-II Max</b>					
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
<b>SB-II SR</b>					
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
1998-On	Yanmar 486 (TK 4.86) Diesel		12	2.0	93591
<b>SB-III</b>					
1980-89	Isuzu 2.0L (TK C201) Diesel		12	2.0	93593
1990-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
<b>SB-III Max</b>					
1991-On	Isuzu 2.0L (TK C201) Diesel		12	2.0	93593
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
<b>SB-III SR</b>					
1993-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
1993-On	Yanmar 486 (TK 4.86) Diesel		12	2.0	93591
<b>SDZ</b>					
1991-On	Yanmar Diesel		12	1.4	93553
1991-On	Kubota Z400 Diesel		12	1.4	93594
<b>Sentry</b>					
1985-On	Isuzu 2.0L (TK C201) Diesel	w/Denso Str	12	2.0	93552
1985-On	Isuzu 2.0L (TK C201) Diesel	w/Hitachi Str	12	2.0	93593
All	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
<b>SL 100, 200, 300, 400, 400 SR2</b>					
All	Yanmar 486 (TK 4.86) Diesel		12	2.0	93591
<b>SMX, SMX II, SMX SR</b>					
1991-On	All		12	2.2	93584
<b>SNWD</b>					
1974-On	All		12	2.0	93593
<b>Spectrum SB, SL</b>					
2001-On	Yanmar 486 (TK 4.86) Diesel		12	2.0	93591
<b>Super II</b>					
2001-On	Isuzu 2.0L (TK C201) Diesel		12	2.0	93593
1983-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
<b>Super II Max</b>					
1989-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584

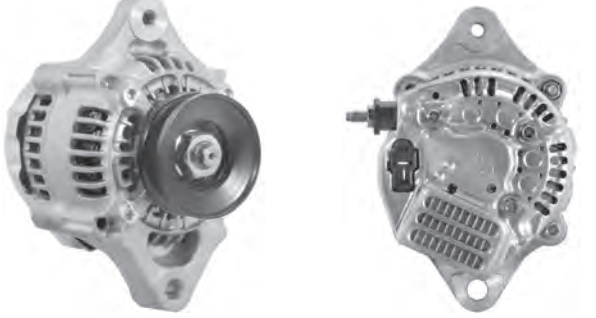


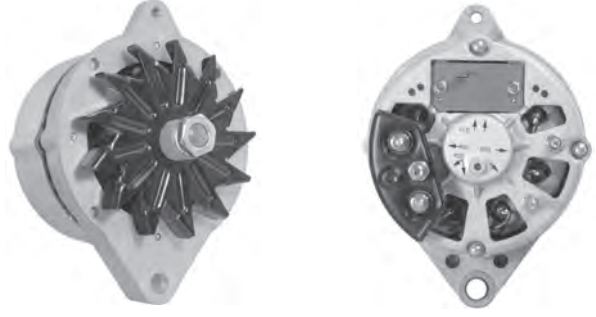
**Starters****Thermo King - Trailer Units**

Year	Engine	Option	Volt	kW	Part No.
<b>Super II SR</b>					
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
<b>Super II TC</b>					
1991-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
1999-On	Yanmar 486 (TK 4.86) Diesel		12	2.0	93591
<b>Super NWD</b>					
1984-On	Isuzu 2.0L (TK C201) Diesel		12	2.0	93593
1984-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
<b>TD-I</b>					
1980-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
<b>TD-II</b>					
1980-On	Isuzu 2.2L (TK DI2.2 -SE) Diesel		12	2.2	93584
1989-On	Yanmar 388 (TK 3.88) Diesel		12	2.2	93584
<b>URD</b>					
1996-On	Yanmar 353 (TK 3.53) Diesel		12	1.4	93547
<b>URD-III Max</b>					
1996-On	Yanmar 395 (TK 3.95) Diesel		12	1.4	93553

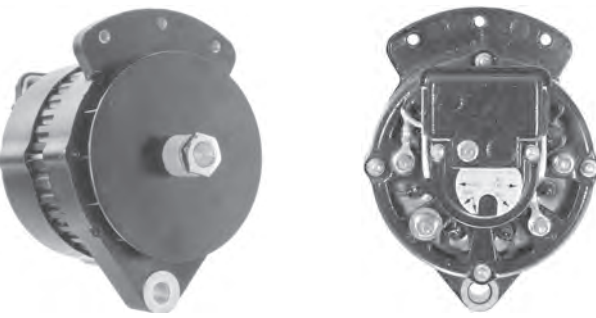
# Buyer's Guide - Alternators

<b>Part No.</b>	<b>93010</b>	<b>Make:</b>	
<b>Amp</b>	37	<b>Carrier Transicold</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	12:00	Eagle Plus, NDB40, NDE40,	
<b>Volt</b>	12	NDF40, NDJ40, NDS40, NDT40,	
<b>B+ Terminal</b>	1/4-20	UDE Series, UDG Series	
<b>Rot</b>	BI		

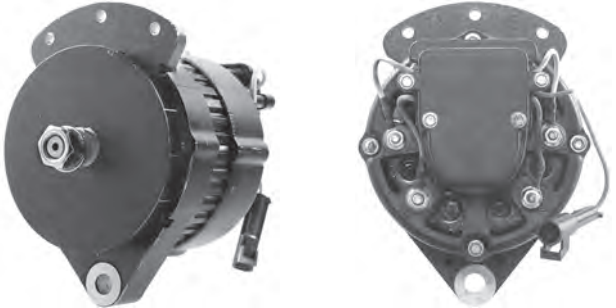
<b>Part No.</b>	<b>93019</b>	<b>Make:</b>	
<b>Amp</b>	40	<b>Thermo King</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	ND	<b>Model:</b>	
<b>Plug Clock</b>	9:00	UMD	
<b>Volt</b>	12		
<b>B+ Terminal</b>	M6X1.0		
<b>Rot</b>	CW		

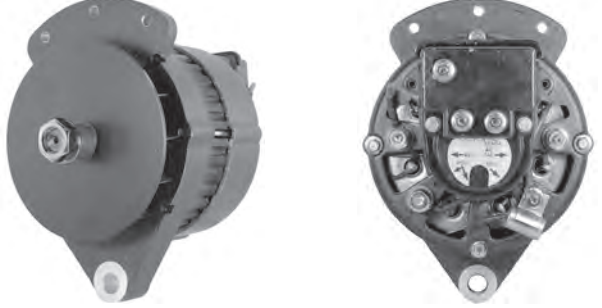
<b>Part No.</b>	<b>93049</b>	<b>Make:</b>	
<b>Amp</b>	37	<b>Thermo King</b>	
<b>Reg</b>	ER		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	12:00	LND 30, SB-II, Sentry, Super	
<b>Volt</b>	12	NWD, TD-I, TD-II	
<b>B+ Terminal</b>	1/4-20		
<b>Rot</b>	CW		


<b>Part No.</b>	<b>93070</b>	<b>Make:</b>	
<b>Amp</b>	65	<b>Thermo King</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	BO	<b>Model:</b>	
<b>Plug Clock</b>	12:00	LND 50, SB-190, SB-200, SB-210,	
<b>Volt</b>	12	SB-300, SB-310, SB-II, SB-II MAX,	
<b>B+ Terminal</b>	M6X1.0	SB-II SR, SB-III MAX, SB-III SR, SDZ,	
<b>Rot</b>	CW	Sentry, SL Series, SMX Series, Super II, Super II SR, Super II TC	

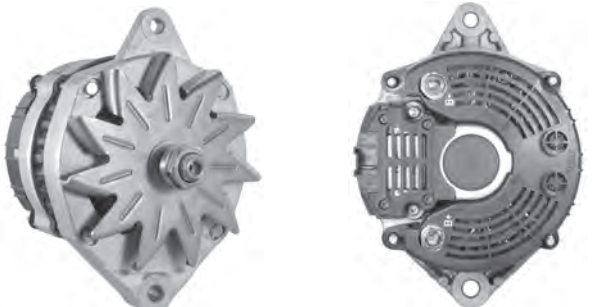
<b>Part No.</b>	<b>93073</b>	<b>Make:</b>	
<b>Amp</b>	65	<b>Carrier Transicold</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	12:00	Eagle Plus, Thunderbird	
<b>Volt</b>	12		
<b>B+ Terminal</b>	1/4-20		
<b>Rot</b>	BI		

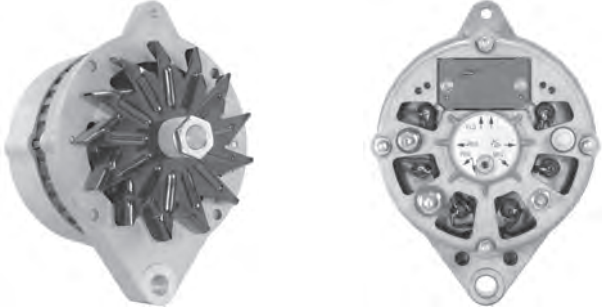
# Alternators - Buyer's Guide

<b>Part No.</b>	<b>93074</b>	<b>Make:</b>	
<b>Amp</b>	65	<b>Carrier Transicold</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	12:00	Extra, Genesis TR100, Genesis	
<b>Volt</b>	12	TM900, Genesis TM1000, Phoenix	
<b>B+ Terminal</b>	1/4-20	Ultra XL, Ultima 53	
<b>Rot</b>	BI		



<b>Part No.</b>	<b>93075</b>	<b>Make:</b>	
<b>Amp</b>	65	<b>Carrier Transicold</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	12:00	Europhoenix, Optima, Phoenix	
<b>Volt</b>	12	Ultra, Phoenix Ultra XL	
<b>B+ Terminal</b>	1/4-20		
<b>Rot</b>	BI		



<b>Part No.</b>	<b>93076</b>	<b>Make:</b>	
<b>Amp</b>	70	<b>Carrier Transicold</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	VA	<b>Model:</b>	
<b>Plug Clock</b>	12:00	Genesis R70, Genesis R90, Mistral	
<b>Volt</b>	12	310, Mistral 410	
<b>B+ Terminal</b>	M6X1.0		
<b>Rot</b>	CCW		



<b>Part No.</b>	<b>93078</b>	<b>Make:</b>	
<b>Amp</b>	70	<b>Carrier Transicold</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	VA	<b>Model:</b>	
<b>Plug Clock</b>	9:00	Mistral Series, Supra Series	
<b>Volt</b>	12		
<b>B+ Terminal</b>	M6X1.0		
<b>Rot</b>	CCW		

<b>Part No.</b>	<b>93079</b>	<b>Make:</b>	
<b>Amp</b>	51	<b>Thermo King</b>	
<b>Reg</b>	ER		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	12:00	LND 30, SB-I, SB-II, SB-III, Sentry,	
<b>Volt</b>	12	SNWD, Super NWD, TD-I, TD-II	
<b>B+ Terminal</b>	1/4-20		
<b>Rot</b>	CW		



# Buyer's Guide - Alternators



<b>Part No.</b>	<b>93080</b>	<b>Make:</b>	 
<b>Amp</b>	65	<b>Thermo King</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	12:00	HK, HK-II, HK-III, HK-30, HK-60,	
<b>Volt</b>	12	HK-100, SB-II, Sentry, Super II,	
<b>B+ Terminal</b>	1/4-20	Super II MAX, TD-II	
<b>Rot</b>	CW		

<b>Part No.</b>	<b>93081</b>	<b>Make:</b>	 
<b>Amp</b>	23	<b>Thermo King</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	6:00	HK, HK-II, HK-III, SB-III, Sentry,	
<b>Volt</b>	12	Super II MAX, TD-II	
<b>B+ Terminal</b>	1/4-20		
<b>Rot</b>	BI		

<b>Part No.</b>	<b>93082</b>	<b>Make:</b>	 
<b>Amp</b>	120	<b>Thermo King</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	BO	<b>Model:</b>	
<b>Plug Clock</b>	12:00	SB-III SR, Super II TC	
<b>Volt</b>	12		
<b>B+ Terminal</b>	M6X1.0		
<b>Rot</b>	CW		


Buyer's Guide

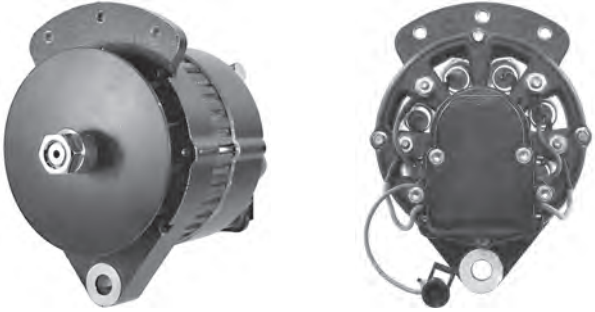
<b>Part No.</b>	<b>93083</b>	<b>Make:</b>	 
<b>Amp</b>	90	<b>Thermo King</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	6:00	URD, URD-III MAX	
<b>Volt</b>	12		
<b>B+ Terminal</b>	1/4-20		
<b>Rot</b>	BI		

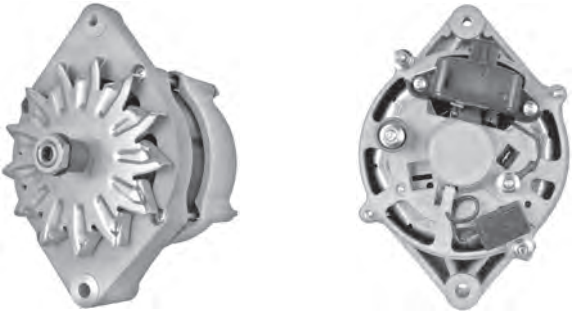
<b>Part No.</b>	<b>93087</b>	<b>Make:</b>	 
<b>Amp</b>	37	<b>Thermo King</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	12:00	HK, HK-II, HK-III, HK-30, HK-60,	
<b>Volt</b>	12	HK-100, SB-II, Super II, Super II	
<b>B+ Terminal</b>	1/4-20	MAX, TD-II	
<b>Rot</b>	BI		

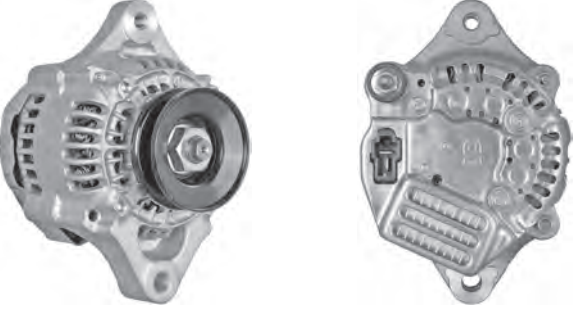


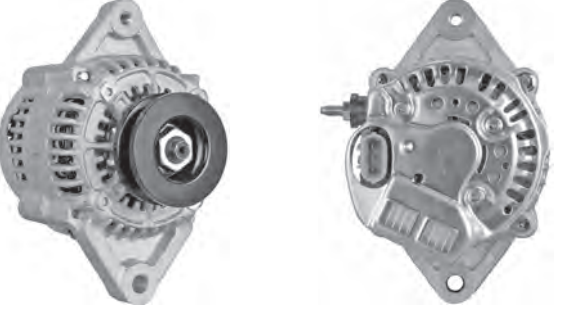
# Alternators - Buyer's Guide

<b>Part No.</b>	<b>93088</b>	<b>Make:</b>	
<b>Amp</b>	65	<b>Thermo King</b>	
<b>Reg</b>	IR	<b>Carrier Transicold</b>	
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	6:00	MD-II TCI, RD-II TCI, MD, RD, TD	
<b>Volt</b>	12	Series	
<b>B+ Terminal</b>	1/4-20		
<b>Rot</b>	BI		

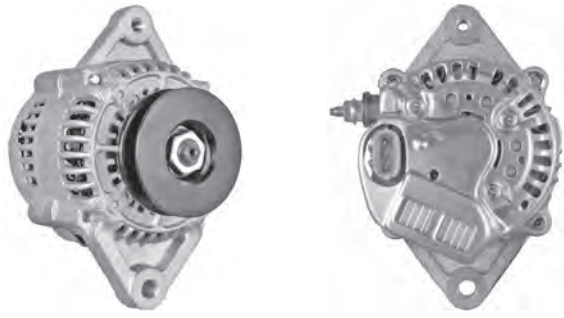
<b>Part No.</b>	<b>93090</b>	<b>Make:</b>	
<b>Amp</b>	65	<b>Carrier Transicold</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	PL	<b>Model:</b>	
<b>Plug Clock</b>	6:00	Extra, Genesis TR100, Genesis	
<b>Volt</b>	12	TM900, Genesis TM1000, Phoenix	
<b>B+ Terminal</b>	1/4-20	Ultra XL, Ultima 53	
<b>Rot</b>	BI		

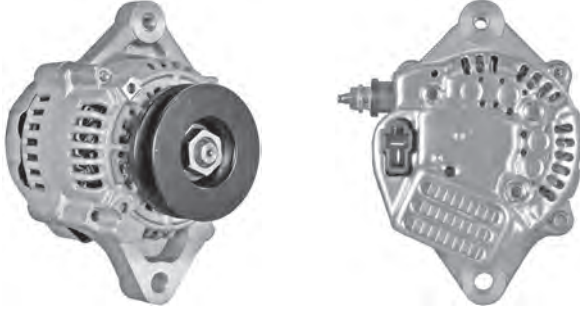
<b>Part No.</b>	<b>93095</b>	<b>Make:</b>	
<b>Amp</b>	65	<b>Thermo King</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	BO	<b>Model:</b>	
<b>Plug Clock</b>	1:00	TriPac	
<b>Volt</b>	12		
<b>B+ Terminal</b>	M6X1.0		
<b>Rot</b>	CCW		

<b>Part No.</b>	<b>93096</b>	<b>Make:</b>	
<b>Amp</b>	40	<b>Carrier Transicold</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	ND	<b>Model:</b>	
<b>Plug Clock</b>	9:00	ComfortPro PC5000	
<b>Volt</b>	12		
<b>B+ Terminal</b>	M6X1.0		
<b>Rot</b>	CW		

<b>Part No.</b>	<b>93097</b>	<b>Make:</b>	
<b>Amp</b>	60	<b>Carrier Transicold</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	ND	<b>Model:</b>	
<b>Plug Clock</b>	9:00	ComfortPro PC6000	
<b>Volt</b>	12		
<b>B+ Terminal</b>	M6X1.0		
<b>Rot</b>	CW		

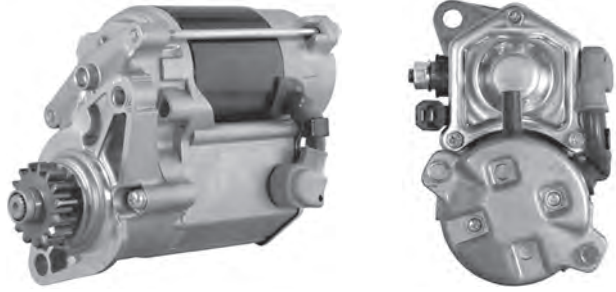
# Buyer's Guide - Alternators

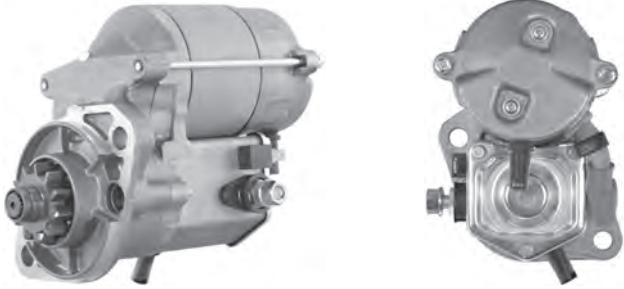
<b>Part No.</b>	<b>93098</b>	<b>Make:</b>	
<b>Amp</b>	60	<b>Rigmaster</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	ND	<b>Model:</b>	
<b>Plug Clock</b>	9:00	14-6, T4-6	
<b>Volt</b>	12		
<b>B+ Terminal</b>	M6X1.0		
<b>Rot</b>	CW		

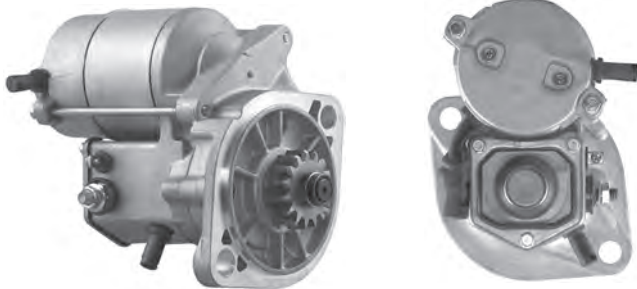
<b>Part No.</b>	<b>93099</b>	<b>Make:</b>	
<b>Amp</b>	40	<b>Rigmaster</b>	
<b>Reg</b>	IR		
<b>Mfr</b>	ND	<b>Model:</b>	
<b>Plug Clock</b>	9:00	104, 10-40	
<b>Volt</b>	12		
<b>B+ Terminal</b>	M6X1.0		
<b>Rot</b>	CW		




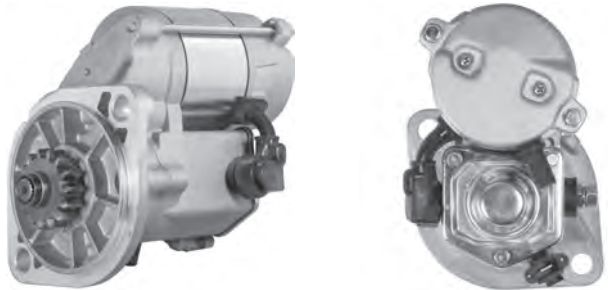
# Starters - Buyer's Guide

<b>Part No.</b>	<b>93547</b>	<b>Make:</b>	
<b>Mfr</b>	ND	<b>Thermo King</b>	
<b>Volt</b>	12		
<b>kW</b>	1.4	<b>Model:</b>	
<b>Teeth</b>	15	LND 30, LND 50, URD	
<b>Sw Terminal</b>	Spade		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

<b>Part No.</b>	<b>93549</b>	<b>Make:</b>	
<b>Mfr</b>	ND	<b>Carrier Transicold</b>	
<b>Volt</b>	12		
<b>kW</b>	1.4	<b>Model:</b>	
<b>Teeth</b>	11	Eagle Plus, Europhoenix, NDB40, NDF40, NDS40, Phoenix Advantage, Thunderbird, UDE Series, UDG Series	
<b>Sw Terminal</b>	Spade		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

<b>Part No.</b>	<b>93550</b>	<b>Make:</b>	
<b>Mfr</b>	ND	<b>Thermo King</b>	
<b>Volt</b>	12		
<b>kW</b>	1.4	<b>Model:</b>	
<b>Teeth</b>	15	LND II 50, TD-II	
<b>Sw Terminal</b>	M4X0.7		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

<b>Part No.</b>	<b>93552</b>	<b>Make:</b>	
<b>Mfr</b>	ND	<b>Thermo King</b>	
<b>Volt</b>	12		
<b>kW</b>	2.0	<b>Model:</b>	
<b>Teeth</b>	9	SB-I, SB-II, Sentry	
<b>Sw Terminal</b>	M4X0.7		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

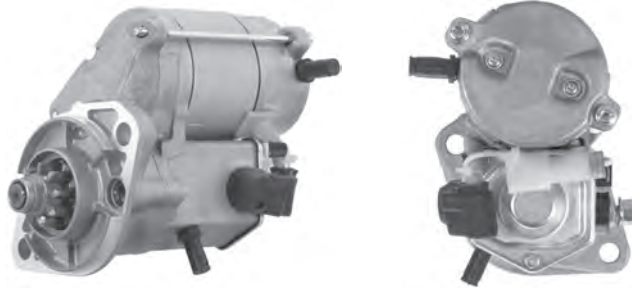
<b>Part No.</b>	<b>93553</b>	<b>Make:</b>	
<b>Mfr</b>	ND	<b>Thermo King</b>	
<b>Volt</b>	12		
<b>kW</b>	1.4	<b>Model:</b>	
<b>Teeth</b>	15	HK, HK-II, HK-III, HK-30, HK-60, HK-100, SDZ, URD-III MAX	
<b>Sw Terminal</b>	Spade		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

# Buyer's Guide - Starters

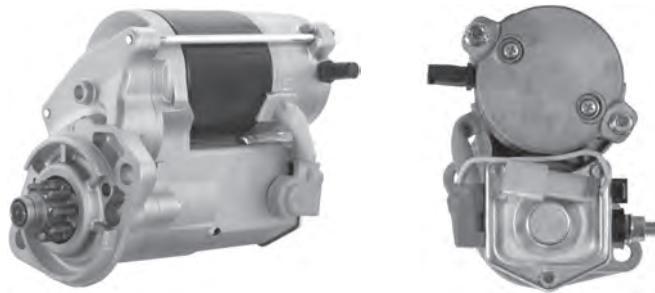
<b>Part No.</b>	<b>93584</b>	<b>Make:</b>
<b>Mfr</b>	HI	<b>Thermo King</b>
<b>Volt</b>	12	
<b>kW</b>	2.2	<b>Model:</b>
<b>Teeth</b>	9	SB-190, SB-I, SB-II, SB-II MAX,
<b>Sw Terminal</b>	M4X0.7	SB-II SR, SB-III, SB-III MAX, SB-III
<b>Rot</b>	CW	SR, Sentry, SMX, SMX II, SMX SR,
<b>B+ Terminal</b>	M8X1.25	Super II, Super II MAX, Super II SR,
		Super II TC, Super NWD, TD-I, TD-II



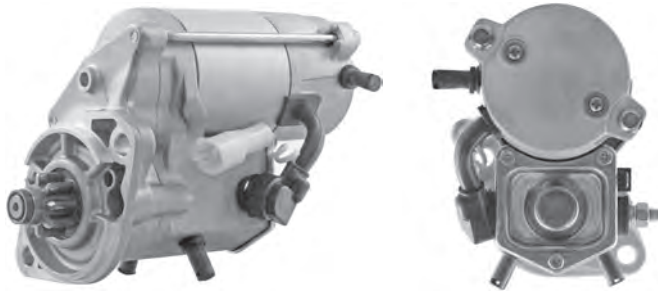
<b>Part No.</b>	<b>93588</b>	<b>Make:</b>
<b>Mfr</b>	ND	<b>Carrier Transicold</b>
<b>Volt</b>	12	
<b>kW</b>	1.4	<b>Model:</b>
<b>Teeth</b>	9	Extra, Genesis TM900, Genesis
<b>Sw Terminal</b>	Spade	TM1000, Genesis TR100, Phoenix
<b>Rot</b>	CW	Ultra, Phoenix Ultra XL, Ultima 53
<b>B+ Terminal</b>	M8X1.25	



<b>Part No.</b>	<b>93589</b>	<b>Make:</b>
<b>Mfr</b>	ND	<b>Carrier Transicold</b>
<b>Volt</b>	12	
<b>kW</b>	2.2	<b>Model:</b>
<b>Teeth</b>	9	Extra, Genesis TM900, Genesis
<b>Sw Terminal</b>	5 mm Spade	TM1000, Genesis TR100, Phoenix
<b>Rot</b>	CW	Ultra, Phoenix Ultra XL, Ultima 53
<b>B+ Terminal</b>	M8X1.25	




<b>Part No.</b>	<b>93590</b>	<b>Make:</b>
<b>Mfr</b>	ND	<b>Carrier Transicold</b>
<b>Volt</b>	12	
<b>kW</b>	2.0	<b>Model:</b>
<b>Teeth</b>	9	Extra, Genesis TM900, Genesis
<b>Sw Terminal</b>	Spade	TM1000, Genesis TR100, Phoenix
<b>Rot</b>	CW	Ultra, Phoenix Ultra XL, Ultima 53
<b>B+ Terminal</b>	M8X1.25	




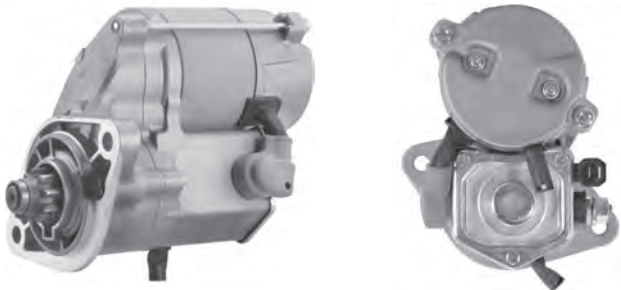
<b>Part No.</b>	<b>93591</b>	<b>Make:</b>
<b>Mfr</b>	HI	<b>Thermo King</b>
<b>Volt</b>	12	
<b>kW</b>	2.0	<b>Model:</b>
<b>Teeth</b>	9	SB-200, SB-210, SB-300, SB-
<b>Sw Terminal</b>	M4X0.7	310, SB-II SR, SB-III SR, SL100,
<b>Rot</b>	CW	SL100E, SL200, SL200E, SL300,
<b>B+ Terminal</b>	M8X1.25	SL400, SL400 SR2, Spectrum SB,
		Spectrum SL, Super II TC




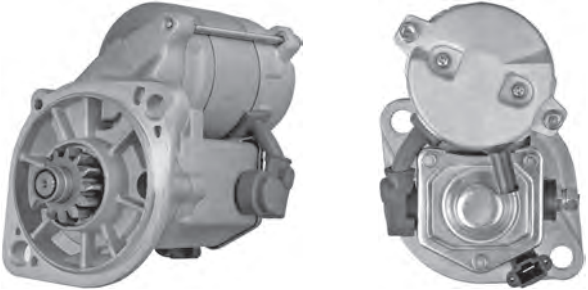
# Starters - Buyer's Guide

<b>Part No.</b>	<b>93592</b>	<b>Make:</b>	
<b>Mfr</b>	HI	<b>Thermo King</b>	
<b>Volt</b>	12		
<b>kW</b>	2.2	<b>Model:</b>	
<b>Teeth</b>	9	Yanmar Engines	
<b>Sw Terminal</b>	M4X0.7		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

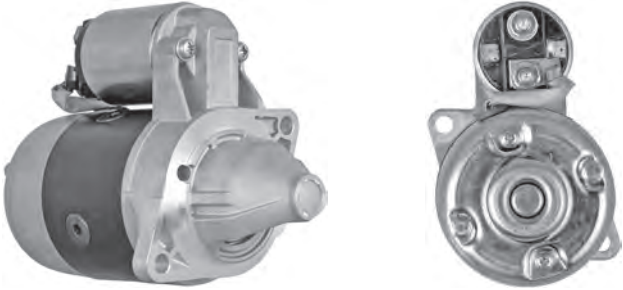
<b>Part No.</b>	<b>93593</b>	<b>Make:</b>	
<b>Mfr</b>	HI	<b>Thermo King</b>	
<b>Volt</b>	12		
<b>kW</b>	2.0	<b>Model:</b>	
<b>Teeth</b>	9	SB-II, SB-III, SB-III MAX, Sentry, SNWD, Super II, Super NWD	
<b>Sw Terminal</b>	M4X0.7		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

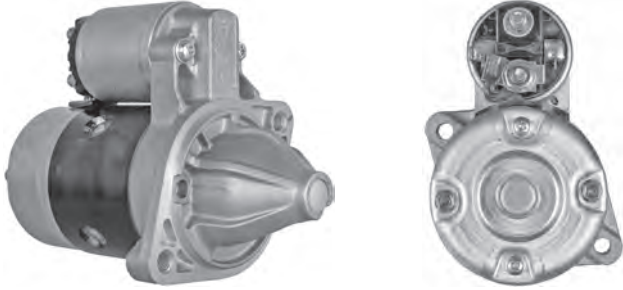
<b>Part No.</b>	<b>93594</b>	<b>Make:</b>	
<b>Mfr</b>	ND	<b>Thermo King</b>	
<b>Volt</b>	12	<b>Carrier Transicold</b>	
<b>kW</b>	1.4	<b>Model:</b>	
<b>Teeth</b>	9	TK SDZ Genesis R70, Mistral Series	
<b>Sw Terminal</b>	Spade		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

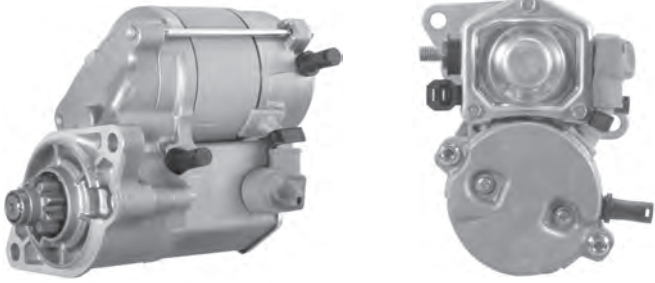
<b>Part No.</b>	<b>93595</b>	<b>Make:</b>	
<b>Mfr</b>	MI	<b>Carrier Transicold</b>	
<b>Volt</b>	12		
<b>kW</b>	0.8	<b>Model:</b>	
<b>Teeth</b>	8	Supra Series	
<b>Sw Terminal</b>	Spade		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

<b>Part No.</b>	<b>93597</b>	<b>Make:</b>	
<b>Mfr</b>	ND	<b>Thermo King</b>	
<b>Volt</b>	12		
<b>kW</b>	1.2	<b>Model:</b>	
<b>Teeth</b>	13	TriPac	
<b>Sw Terminal</b>	7mm Spade		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

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<b>Part No.</b>	<b>93598</b>	<b>Make:</b>	
<b>Mfr</b>	MI	<b>Carrier Transicold</b>	
<b>Volt</b>	12		
<b>kW</b>	0.7	<b>Model:</b>	
<b>Teeth</b>	9	ComfortPro PC5000	
<b>Sw Terminal</b>	5mm Spade		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

<b>Part No.</b>	<b>93599</b>	<b>Make:</b>	
<b>Mfr</b>	MI	<b>Rigmaster</b>	
<b>Volt</b>	12		
<b>kW</b>	0.8	<b>Model:</b>	
<b>Teeth</b>	8	14-6, T4-6	
<b>Sw Terminal</b>	5mm Spade		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		

<b>Part No.</b>	<b>99746</b>	<b>Make:</b>	
<b>Mfr</b>	ND	<b>Carrier Transicold</b>	
<b>Volt</b>	12		
<b>kW</b>	1.4	<b>Model:</b>	
<b>Teeth</b>	9	Maxima, Optima	
<b>Sw Terminal</b>	5mm Spade		
<b>Rot</b>	CW		
<b>B+ Terminal</b>	M8X1.25		



# Cross Reference

Bosch	Part No.	Carrier Transicold	Part No.	Carrier Transicold	Part No.
0-120-484-028	93082	25-35465-00	93594	30-00409-08	93090
0-120-484-049	93082	25-37640	93549	30-00409-10	93074
0-120-488-296	93070	25-37640-00	93549	30-00409-12	93074
0-120-488-297	93070	25-37725-00	93549	30-00409-13	93074
9-120-060-023	93070	25-38750	93549	30-00409-16	93090
9-120-060-027	93070	25-38750-00	93549	30-00409-17	93074
9-120-060-038	93082	25-39135	93588	30-00409-18	93074
AL5012N	93070	25-39135-00	93588	30-00409-64	93074
AL9120N	93082	25-39291-00	93590	30-00409-65	93090
AL927N	93070	25-39316-00	93589	30-00423	93073
AL929N	93082	29-50340-00	93070	30-00423-00	93073
F-005-A00-020	93082	29-70050-00	93595	30-50307	93073
SR396X	93552	29-70158-00	99746	30-50307-00	93073
SR9946X	93547	30-00171-00	93073	30-50326-00	93075
SR9947X	93593	30-00171-11	93073	30-50336-00	93088
SR9949X	93549	30-00251	93049	30-50337-00	93083
Carrier Transicold	Part No.	30-00251-11	93049	30-50340-00	93082
140954	93073	30-00306	93010	30-50341-00	93087
20-41-5456	93082	30-00306-00	93010	30-50342-00	93088
20-41-5457	93070	30-00306-02	93010	30-50345-00	93081
20-41-5458	93070	30-00306-03	93010	30-60050-01	93078
20-41-6780	93070	30-00306-04	93010	30-60050-03	93076
20-41-6990	93095	30-00306-05	93010	30-60050-04	93076
20-44-1285	93552	30-01114-07	93076	35-34885-00	93595
20-44-3325	93049	30-030600	93010	96-101-21K	93097
20-44-5674	93552	30-00331	93049	96-111-02K	93096
20-44-6257	93079	30-00331-00	93049	Delco Remy Reman	Part No.
20-44-9571	93070	30-00349-01	93073	19020509	93049
20-44-9572	93070	30-00351-00	93073	19020507	93070
20-45-1251	93547	30-00351-02	93073	19020508	93070
20-45-1263	93584	30-00351-04	93073	19020520	93073
20-45-1285	93593	30-00363	93073	19020510	93079
20-45-1312	93550	30-00363-00	93073	19020515	93087
20-45-1671	93584	30-00363-01	93073	19020512	93088
20-45-1688	93591	30-00363-03	93073	10465444	93547
20-45-1718	93550	30-00363-04	93073	10465531	93549
25-15371-00	93599	30-00409-02	93074	10465442	93552
25-15520-00	99746	30-00409-04	93074	10465440	93550
25-34885-00	93598	30-00409-06	93074	10465437	93593
25-35465	93594	30-00409-07	93074	10465438	93584

# Cross Reference

Delco Remy Reman	Part No.	Denso	Part No.	Dixie	Part No.
10465529	93594	128000-0961	93552	109-10101	93049
19020514	93074	128000-2881	93552	109-10103	93079
19020519	93074	128000-4900	93594	109-10105	93010
10465583	93553	128000-6280	93549	109-12103	93087
<b>Denso</b>	<b>Part No.</b>	228000-0110	93553	109-12105	93087
028000-0710	93550	228000-0111	93553	109-12105	93088
028000-5051	93552	228000-0140	93553	109-12106	93080
028000-5730	93550	228000-0141	93553	109-12108	93081
028000-5800	93547	228000-0142	93553	109-12110	93083
028000-7000	93552	228000-0250	93597	109-12112	93074
028000-7001	93552	228000-0251	93597	109-12115	93090
028000-7002	93552	228000-0660	93588	109-12117	93075
028000-7640	93553	228000-0661	93588	109-12118	93073
028000-7790	93552	228000-0662	93588	146-05101	93019
028000-7791	93552	228000-0663	93588	146-06131	93097
028000-7830	93549	228000-0664	93588	146-06132	93098
100211-1610	93019	228000-0950	99746	146-93104	93096
100211-1630	93019	228000-0951	99746	160-84103	93070
100211-1640	93019	228000-0970	99746	160-84104	93070
100211-1680	93099	228000-0971	99746	160-84105	93082
100211-4690	93019	228000-1060	93594	160-84106	93082
100211-4740	93096	228000-1061	93594	160-84113	93597
100211-4741	93096	228000-1070	93549	160-84116	93094
101211-2480	93019	228000-1071	93549	170-13101	93078
101211-2960	93097	228000-3800	93553	170-13102	93076
101211-2961	93097	228000-3801	93553	170-13103	93076
101211-8810	93098	228000-3802	93553	240-20101	93593
10-45-1718	93594	228000-6950	93590	240-20102	93584
128000-0020	93552	228000-6951	93590	240-20105	93591
128000-0021	93552	228000-6952	93590	240-22105	93584
128000-0022	93552	428000-0930	93589	240-22106	93592
128000-0710	93553	5702800-764	93553	243-08105	93595
128000-0720	93547	5712800-074	93553	245-14105	93547
128000-0721	93547	9712809-071	93553	246-14105	93547
128000-0960	93552	9712809-074	93553	246-14110	93549
128000-0140	93549	9722809-106	93594	246-14114	93550
128000-0141	93549	9742809-093	93589	246-14116	93553
128000-0740	93553	9760211-163	93019	246-14119	99746
128000-0741	93553	9760218-163	93019	246-14120	93588
				246-14122	93594



# Cross Reference

Dixie	Part No.	Dixie	Part No.	Kubota	Part No.
246-20103	93590	S-8309	93593	19837-63013	93598
246-20105	93552	S-8315	93584	66436-64013	93096
246-22101	93589	S-8397	93595	66436-640152	93096
A-988	93049	S-8489	99746	<b>Lester</b>	<b>Part No.</b>
A-921	93010	S-8675	93588	7344	93073
A-6250	93070	S-8788	93553	7380	93010
A-6252	93070	S-8790	93594	7444	93010
A-6380	93082	S-8791	93594	7444	93049
A-6381	93082	S-8807	93553	7479	93087
A-80052	93098	S-8889	93590	7482	93079
A-80410	93097	S-80051	93589	7486	93079
A-8277	93019	S-80052	93591	7597	93081
A-8278	93096	S-80158	93584	8056	93010
A-8512	93096	S-8152-1	93552	8427	93088
A-9199	93073	<b>Hitachi</b>	<b>Part No.</b>	8428	93080
A-9209	93079	S13-211	93584	8611	93010
A-9210	93087	S13-407	93592	8615	93073
A-9211	93088	S13-407A	93592	8616	93083
A-9217	93073	S13-84	93593	8616	93087
A-9225	93088	S13-84A	93593	8617	93083
A-9234	93074	S13-84B	93593	8618	93074
A-9247	93087	S13-89	93584	8618-6	93090
A-9254	93074	S13-89A	93584	8619	93074
A-9334	93090	S13-89B	93584	8625	93075
A-9347	93087	S13-89C	93584	8679	93074
A-9349	93087	S13-89D	93584	12104	93078
A-9350	93080	S13-207A	93591	12189	93019
A-9351	93075	S13-207C	93591	12223	93070
A-9357	93083	S13-289	93584	12224	93070
A-9387	93081	S13-289A	93584	12333	93082
A-9397	93076	S13-289B	93584	12334	93082
A-9398	93076	S13-289C	93584	12413	93076
A-9399	93073	<b>Kubota</b>	<b>Part No.</b>	12459	93076
A-9403	93078	15881-64201	93019	12460	93076
A-9409	93073	19215-63012	93594	12463	93076
S-80290	93592	19215-63013	93594	16637	93595
S-8089	93550	19460-63012	93590	16657	93550
S-8124	93553	19837-63010	93598	16739	93552
S-8195	93547	19837-63011	93598	16791	93595
S-8261	93549	19837-63012	93598	17027	93594

# Cross Reference

Lester	Part No.	Motorola	Part No.	Motorola	Part No.
17088	93593	8AR2070KA	93073	8HA2009KA	93079
17098	99746	8EA2018N	93073	8MR2013L	93073
17116	93549	8EA2018NA	93073	8MR2121L	93090
17117	93547	8EK2003FA	93087	8MR2121LA	93090
17354	93595	8EK2003FB	93087	8MR2123L	93075
17367	93549	8EK2003FC	93087	8MR2123LA	93075
17375	93553	8EK2003FD	93087	8MR2124L	93090
17606	93594	8EK2004DC	93074	8MR2124LA	93090
17619	93549	8EK2006FA	93087	8MR2125L	93074
18013	93553	8EK2006FB	93087	8MR2125LA	93074
18067	93584	8EK2006FC	93087	8MR2127L	93074
18148	93594	8EK2008FB	93087	8MR2127LA	93074
18162	93595	8EK2008FC	93087	8MR2127LB	93074
18277	93588	8EK2008FD	93087	8MR2150L	93088
18490	93591	8EK2005NC	93088	8MR2170F	93087
18556	93590	8EK2005ND	93088	8MR2171F	93087
18557	93589	8EK2007NA	93088	8MR2172F	93087
		8EK2009F	93087	8MR2175F	93087
		8EK2009FA	93087	8MR2180L	93080
		8EK2009FB	93087	8MR2181L	93080
		8EK2009FC	93087	8MR2185L	93080
		8EK2009FD	93087	8MR2197T	93083
		8EK2010N	93088	8MR2215D	93081
		8EK2010NA	93088	8MR2316L	93090
		8EK2010NB	93088	8MR2324L	93074
		8EK2011FB	93087	8MR2326L	93074
		8EK2011FC	93087	8MR2327L	93074
		8EK2110NA	93088	8MR2327L	93090
		8EM2012N	93073	8MR2329L	93075
		8EM2012NA	93073	8MR2343	93088
		8EM2012NAS	93073	8MR2348	93083
		8EM2013N	93073	RA12N451	93010
		8EM2013NA	93073	RA12N453	93010
		8HA2003F	93049	A12N451	93010
		8HA2003FS	93049		
		8HA2006F	93049	<b>Paris-Rhone</b>	<b>Part No.</b>
		8HA2008F	93079	A13N237	93076
		8HA2008FA	93079	A13N238	93078
		8HA2009K	93079	A13N260	93076
				A13N291	93076
				A13N293	93076

Cross Reference

# Cross Reference

Perkins	Part No.	Thermo King	Part No.	Thermo King	Part No.
185046220	93099	10-41-5458B	93070	44-7925	93087
185046470	93098	10-44-3325	93049	44-7926	93087
185086540	93599	10-44-9572	93070	44-7927	93088
Prestolite	Part No.	10-45-1285	93593	44-8091	93087
10-1	93010	10-45-1688	93591	44-8901	93087
10-54	93010	10-45-1993	93584	44-8902	93087
10-273	93010	10-45-2177	93592	44-8903	93081
110-1	93010	41-0749	93096	44-8904	93088
110-54	93010	41-2194	93081	44-8939	93087
110-112	93010	41-2195	93087	44-8940	93088
110-155	93010	41-2196	93088	44-8949	93070
110-159	93049	41-2197	93088	44-8950	93070
110-161	93010	41-2198	93087	44-9571	93070
110-225	93049	41-2199	93087	44-9572	93070
110-273	93073	41-2200	93080	44-9750	93087
110-303	93079	41-2571	93082	44-9751	93087
110-304	93079	41-2705	93083	44-9753	93088
110-379	93073	41-5456	93082	44-9754	93087
110-383	93073	41-5456B	93082	44-9755	93088
110-385	93073	41-5457	93070	45-1229	93593
110-399	93087	41-5458	93070	45-1251	93547
110-487	93073	41-6780	93070	45-1263	93584
110-542	93079	41-6781	93070	45-1285	93593
110-543	93079	41-6782	93082	45-1312	93550
110-581	93081	41-6990	93095	45-1335	93553
110-600	93080	41-8461	93070	45-1671	93584
110-606	93074	41-8463	93070	45-1688	93591
110-607	93074	41-8465	93082	45-1706	93083
110-609	93074	41-9856	93070	45-1718	93550
110-611	93075	41-9925	93094	45-1993	93584
110-633	93088	42-367	93095	45-2176	93597
110-638	93083	44-3325	93049	45-2177	93592
110-646	93090	44-5004	93049	45-2254	93070
110-699	93087	44-5674	93552	45-2256	93070
Thermo King	Part No.	44-6257	93079	45-2257	93095
10-41-2571	93082	44-6266	93079	45-2258	93082
10-41-2198	93087	44-7155	93087	45-2323	93591
10-41-5456	93082	44-7156	93088	45-2324	93592
10-41-5457B	93070	44-7924	93081	45-2325	93584

Cross Reference

# Cross Reference

Thermo King	Part No.	Thermo King	Part No.	Wilson	Part No.
45-2326	93553	4006D20G02	93049	90-15-6384	93082
45-5657	93552	41044000	93584	90-15-6386	93082
45-56572	93552	4116D22G03	93087	90-20-3541	93078
45-5674	93552	5D33839G01	93070	90-20-3560	93076
45-904	93547	5D33841G01	93070	90-20-3561	93076
841-5456	93082	5D35741G01	93087	90-20-3574	93076
841-5457	93070	5D35741G02	93087	90-20-3578	93078
841-5458	93070	5D35741G03	93087	90-20-3579	93076
841-8461	93070	5D35741G04	93087	90-29-5313	93019
841-8463	93070	5D38604G01	93070	91-25-1037	93593
841-8464	93095	5D44466G01	93087	91-25-1048	93584
841-8465	93082	5D44466G02	93087	91-25-1048N	93584
844-3325	93049	5D46047G01	93083	91-25-1170	93591
844-9571	93070	5D50461G01	93082	91-25-1170N	93591
844-7925	93087	P-25-34885	93598	91-27-3147	93595
844-9572	93070	P-96-111-02K	93096	91-29-5042	93550
845-1263	93584	<b>Valeo</b>	<b>Part No.</b>	91-29-5074	93552
845-1285	93593	439184	93076	91-29-5107	93549
845-1312	93550	439186	93076	91-29-5109	93547
845-1335	93553	439187	93078	91-29-5140	93553
845-1688	93591	<b>Wilson</b>	<b>Part No.</b>	91-29-5147	93594
845-1724	93553	90-05-9028	93073	91-29-5202	93553
845-2176	93597	90-05-9055	93010	91-29-5405	93588
845-2177	93592	90-05-9082	93049	91-29-5432	93590
845-2254	93070	90-05-9135	93088	91-29-5619	99746
845-2256	93070	90-05-9147	93073	91-29-5623	93589
845-2258	93082	90-05-9148	93087	<b>Yanmar</b>	<b>Part No.</b>
845-2323	93591	90-05-9148	93088	119209-77010	93553
845-2324	93592	90-05-9149	93080	119285-77010	93553
845-2325	93584	90-05-9152	93079	119385-77010	93553
845-2326	93553	90-05-9170	93081	121120-77010	93553
1E32215G01	93070	90-05-9209	93074	121120-77011	93553
1E32216G01	93070	90-05-9210	93090	124520-77010	93553
1E32217G01	93082	90-05-9214	93075	124520-77011	93553
2D72786G03	93087	90-05-9260	93081	129129-77010	93597
3D97386G01	93087	90-05-9270	93083		
3D97386G02	93087	90-15-6233	93070		
3D97386G03	93087	90-15-6233N	93070		
4006D20G01	93049	90-15-6280	93070		



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Starter  Alternator

Year  Make  Model  Clear Filters

Engine  New/Reman  Search

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Starter  Alternator Advanced Search

Starter Basic Search

Family  New/Reman  Voltage  Mount Type

Pinion Teeth  Pinion Pitch  Rated Power (KW)  Search Clear Filters

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Part Number  Search

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Starter  Alternator

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