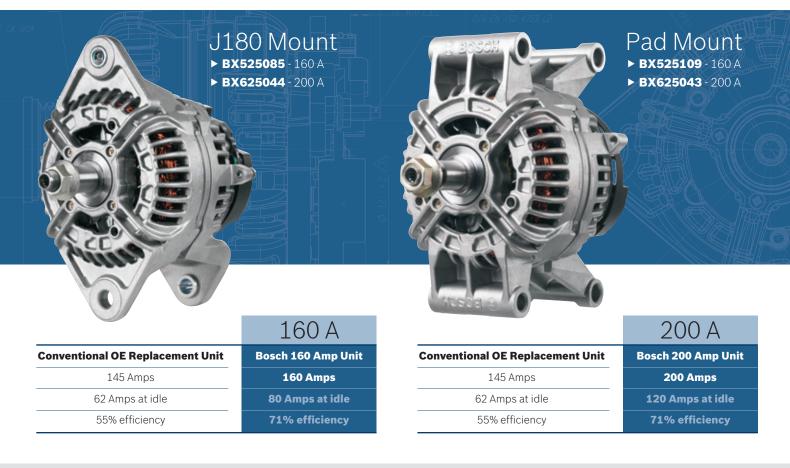


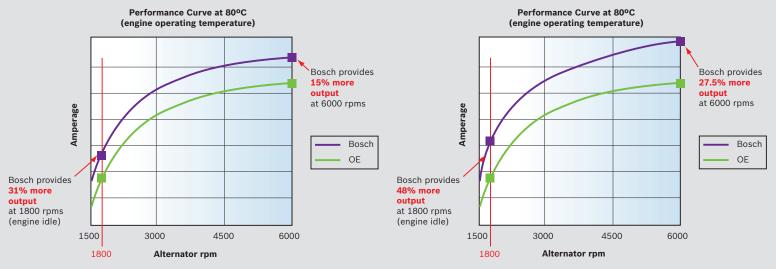
Bosch Long Haul Starter Motors and Alternators – Built to go the distance



12 Volt Long Haul Alternators

160 A and 200 A





The Bosch Long Haul alternator series can replace the following OE fitments: Delco Series 21SI, 22SI, 24SI, 33SI and 35SI.

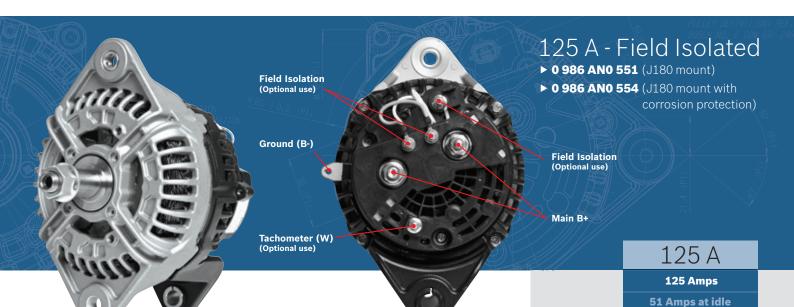
Bosch Heavy Duty Output Alternators

Bosch Long Haul Alternators feature high efficiency alternator technology which delivers maximum charging power over the long-haul. With 160/200 Amps on-the-road output and 80/120 Amps at idle, these alternators provide superior output under all operating conditions.

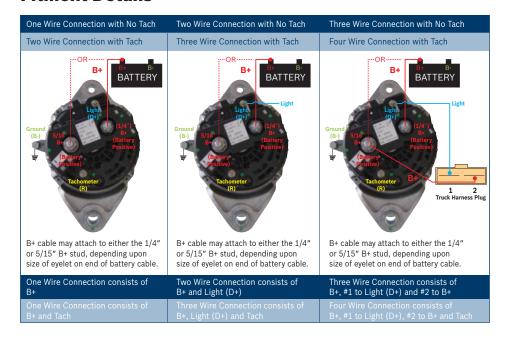
- ► Longer Battery Life
- ► High Temperature Resistance
- ► Self Regulation Regulator
- ► Greater Efficiency and Lower Fuel Consumption
- ► Fewer Part Numbers for Reduced Inventory

24 Volt Long Haul Alternators

125 A - Field Isolated



Fitment Details



Bosch Output Curve

160
140
120
100
80
80
60
40
20
0 1 2 3 4 5 6

Alternator rpm (1000)

64% efficiency

Note: There is no comparable conventional OE replacement unit

available.

Features	Benefits
▶ 125 Amp operating output	► Increased battery life for maximum power
► Temperature and vibration-resistant materials and components	► Extended reliability over longer service life
▶ Dual internal cooling fans and externally-mounted rectifier and regulator	► Helps eliminate heat damage, promoting long life
► Exclusive Bosch long-life bearing technology	► Reliable performance and increased service life
► Advanced, high-efficiency design and operation	► Approximately 30% higher output @ idle
▶ 1 part number	► Replaces over 20 OE part numbers

12V and 24V Long Haul Starter Motors

Reliable and Durable



Specifications - 12V

Features	Standard
► Output 7.2kW	V
► Rotatable flange	V
► IMS switch integrated	V
► Overcrank protection	V
► Torque, Power and Speed meets or exceeds OE equivalent*	~

developed a 24V starter, loaded with high quality features synonymous with Bosch quality standards worldwide.

Specifications - 24V

Features	Standard
► 11 and 12 tooth models	V
► Output 8.4kW (@ -20°C)	V
► Rotatable flange	V
► IMS switch integrated	V
► Long-life carbon brushes	V
► Water resistant	V
► Soft engagement	V
► Insulated ground	V
► Protected against Blind Starts (Click-No-Crank)	V

Bosch	Cross Reference	Engines
0 001 33F 102	10461024, 10461030, 10461043, 10461054, 10461068, 10461128,	Cummins ISX, ISM
	10461184, 10461259, 10479290, 1990367, 1990368, 1990378,	CAT C9, C10, C11, C12, C13, C15
	1990382, 1990384, 1990409, 1990410, 1990456, 1990485,	
	1990493, 1993802, 1993810, 1993978	

Bosch Long Haul starter series can **replace** many **Delco Series** 39MT, 49MT and 50MT.

Bosch Heavy Duty Output Starters

In response to the market demands for a reliable and durable starter motor fitting On and Off-Highway applications, Bosch Long Haul starter motors feature high powered output, providing maximum power and superior performance.

- ► Gear Reduction
- ► Rotatable Flange
- ► Reduces Breakdown Rates



HEP Series Off-Highway Starter Motors

For Komatsu Applications



24V 7.5 kW

- ▶ 0 001 340 510 Fixed Flange
- ▶ 0 001 34F 508 Rotatable Flange
- ▶ 2 004 463 016 Connection Cable



Robust and Powerful

- ▶ Achieves high initial torque output
- Superb cranking capability and endurance for heavy duty vehicles





Compact and Maintenance-Free

- Bosch HEP starters are more compact than OE and easy to install
- Maintenance not required during service life
- ▶ Longer life span than OE



Parallel Operation Design

- Synchronised starting via an electronic control module
- ▶ Optimal distribution of mechanical and electrical loads prevents overloading
- Whole system includes 2 starters and 1 system connection cable





Electrical Soft-Start

▶ Two-stage engagement increases lifetime of starter pinion and engine ring gear

OE Part Cross Reference:

► Komatsu 600-813-7542 (Nikko 0-23000-7752)

Application:

► Komatsu HD465-7R and HD785-7 Off-Highway Trucks

HEP Series Off-Highway - Popular

For Mining Trucks and Excavators



Fixed Flange

Retrofitting the new HEP series starters requires:

- ▶ 2 x 0 001 340 505
- ▶ 1 x 2 004 463 013



These starters are designed to **replace** the common 11 tooth **Delco 50MT series** starters found in:

Engine Make	Engine Model
► Cummins	► QSK45, QSK50, QSK60, KTA38, KTTA38, QSK50
► MTU	► 16V4000, 12V4000, 20V4000
► Caterpillar	► C175-16, C175-20

OE Application:

▶ 471103467

Bosch Long Haul Series

Built to go the distance

Bosch Long Haul Part Numbers



Alternators:

J180

BX525085 - 12V 160 A ► BX625044 - 12V 200 A ► **0986AN0551** - 24V 125 A

▶ **0986AN0554** - 24V 125 A (Corrosion protected)



Pad Mount

BX525109 - 12V 160 A ► BX625043 - 12V 200 A



Starter Motors:

► **F042 003 066** - 12V - 11 Tooth ► **F042 003 071** - 12V - 12 Tooth ▶ **0 001 33F 102** - 24V - 11 Tooth

▶ **0 001 33E 101** - 24V - 12 Tooth



HEP Series

▶ 0 001 340 505 - Fixed Flange

▶ 0 001 340 510 - Fixed Flange

▶ 0 001 34F 508 - Rotatable Flange



Robert Bosch (Australia) Pty. Ltd.

1555 Centre Road Clayton VIC 3168

For further information please contact Bosch on:

Australia 1300 30 70 40 www.boschautoparts.com.au New Zealand 0800 452 896 www.boschautoparts.co.nz

Bosch eCat (Online Catalogue)

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BOSCH Invented for life