

# Long Haul® Starters

## Buyer's Guide



**BOSCH**  
Invented for life

OEM	Engine	Bosch Long Haul	Voltage	Pinion Pitch/Teeth
<b>Freightliner Sterling Western Star</b>	MBE 4000	SR9921LH	12V 7.3kW	Mod 3 - 12 tooth
	Cummins ISC, ISL	SR9922LH	12V 7.3kW	8/10 - 12 tooth
	CAT C15 Cummins ISX, ISM Detroit S60	SR9920LH	12V 7.3kW	6/8 - 11 tooth
	Detroit DD13/15	SR9921LH	12V 7.3kW	Mod 3 - 12 tooth
<b>Navistar</b>	Cummins ISX, ISM CAT C13, C15	SR9920LH	12V 7.3kW	6/8 - 11 tooth
	DT466, DT570 HT570 Maxxforce DT, 9, 10	SR9922LH	12V 7.3kW	8/10 - 12 tooth
<b>Kenworth Peterbilt</b>	CAT C9, C10, C11, C12, C13, C15, Cummins ISX ISM	SR9920LH	12V 7.3kW	6/8 - 11 tooth
	Cummins ISC, ISL	SR9922LH	12V 7.3kW	8/10 - 12 tooth
<b>Mack</b>	Mack E7	SR9920LH	12V 7.3kW	6/8 - 11 tooth
	Cummins ISL, ISL-G	SR9922LH	12V 7.3kW	8/10 - 12 tooth
<b>Volvo</b>	Volvo D12	SR9922LH	12V 7.3kW	8/10 - 12 tooth
	Cummins ISX, ISM	SR9920LH	12V 7.3kW	6/8 - 11 tooth
	Volvo D16	SR9922LH	12V 7.3kW	8/10 - 12 tooth

Warranty = 3 years / 350,000 miles • Kw Rating = 7.3KW • Weight = 33 lbs

# Long Haul® Starters



# BOSCH

## Bosch Long Haul® Series 12 Volt Starters

Bosch Long Haul Series 12 Volt Starters are engineered with many technical features specifically designed to ensure that these starters will outlast and outperform most original equipment starters installed in heavy duty, on-road commercial vehicles in use today. You can trust Bosch Long Haul Starters to keep commercial vehicles up and running for the long haul!

## Advanced Performance Technology

The Bosch Long Haul Series of starters represents the latest technology available in commercial vehicle starting systems. These starters are engineered with all the features required to accommodate the widest range of large displacement commercial vehicle diesel engines with the least amount of SKUs.

## More Torque / More Power

Diesel engines by nature are high compression engines requiring greater amounts of torque and power to turn over in all temperature ranges. Bosch Long Haul Starters utilize a unique Bosch-designed shock absorbing planetary gear system to create more torque for faster starts. The planetary gear carrier is specially designed to resist “kick back” and eliminate drive end breakage common in competitive designs.

## Simplify Your Inventory

Just three Bosch Long Haul Starters replace over 186 competitive part numbers!

- 1 **Bosch Planetary Gear** is mounted on rubber shock absorbers and located in a steel drive end housing. This eliminates breakage of the aluminum drive end housings common in large displacement engines.
- 2 **Fixed Over Running Clutch** has 50% less moving mass which protects internal components in case of blind start or “click no crank”.
- 3 **Meshing Spring** provides positive gear engagement during cranking, eliminating “click no crank” and preventing costly damage to the engine ring gear.
- 4 **Integral Magnetic Switch (IMS)** ensures optimal voltage for starting in all weather conditions.
- 5 **Universal Mounting Flange** installs easily and reduces inventory SKU count.
- 6 **Over Crank Protection** protects the starter from damage, and ensures longer life.
- 7 **Double Chamfered Pinion Gear** reduces “click no crank” and increases first time engagement and positive starts.
- 8 **Open Nose Design** greatly increases resistance to moisture, dust and dirt, preventing damage to internal electrical and mechanical components.
- 9 **Dual Composite Long Life Brushes** create better surface contact, less heat, and lower current draw resulting in longer life and quicker starts.
- 10 **Isolated External Ground Circuit** promotes optimal grounding, and maximum starting power.
- 11 **Protective Cover** shields the solenoid and critical electrical connections, ensuring positive connections and maximum starting power.

