



HD ALTERNATOR INSTALL GUIDE

INSTALLATION

These instructions are provided as supplementary information to the factory service manual instructions for alternator replacement.

1. DISCONNECT BOTH BATTERIES.
2. CHARGE WIRES - (Cable from alternator to battery)
120 AMP Alternators: Use 6 gauge wire up to a 6' distance.
165 AMP Alternators: Use 4 gauge wire up to a 6' distance.
180/220/245 AMP Alternators: Use 2 gauge wire up to a 6' distance.
3. ALTERNATOR GROUND - Many mounting brackets have coatings such as powder coat or paint, which results in poor grounding. **ALL** alternator bracket/mounting surfaces **MUST** be prepped to remove any corrosion or coatings using a wire brush or abrasive scrubbing pad. Battery must also have a clean ground to engine block.
4. WIRE CONNECTIONS - Inspect that all electrical connections are properly fastened, and connections are clean and secure.
5. BELT TENSION - Inspect belt for signs of cracking or glazing, and replace if needed. Make sure installed belt has proper tension. A loose belt will cause intermittent charging and generate excessive heat which may result in premature unit or bearing failure. Also inspect belt tensioners for wear.
6. BATTERY FAILURE - A fully charged battery is at least 12.6V, not 12.0V. A weak/defective battery may cause premature failure of the alternator.
Note: Never disconnect the battery with the engine running. This causes voltage spikes that will damage the alternator.



FREQUENT QUESTIONS

Why is my voltage low when moving at slower speeds or at idle?

Amperage output from the alternator varies dependent upon engine rpm. If your vehicle demands more amperage than the alternator can supply at idle, the remaining amps must be supplemented by the battery creating a decrease in voltage.

Why does my voltage test in range at the alternator, but low at the battery or fuse box?

Resistance in the electrical path between the alternator and the second test point can decrease voltage. To limit voltage decreases, ensure that all connections and ground points are secure and free of corrosion. All charging wires must be the appropriate thickness for the amperage of your alternator.



XDP ALTERNATOR BOLT KIT
XD627 - 2003-2007 Ford 6.0L Powerstroke



WARRANTY

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Products manufactured by XDP carry a 2-Year Unlimited Mileage warranty against defects in materials and craftsmanship. The Warranty is Limited to two (2) years from the date of sale and limited solely to the parts contained within the product's kit. All products that are in question of Warranty must be returned shipping prepaid to XDP and must be accompanied by a dated proof of purchase receipt. Warranty is limited to the original purchaser.

FOR MOST DIESEL APPLICATIONS

POWERSTROKE

XD348 - 200A - 2003-2005 6.0L Powerstroke
XD349 - 200A - 2006-2007 6.0L Powerstroke
XD352 - 245A - 2011-2022 6.7L Powerstroke
XD353 - 245A - 2008-2010 6.4L Powerstroke
XD358 - 200A - 2003-2007 6.0L Powerstroke
XD356 - 200A - 1999-2003 7.3L Powerstroke
XD357 - 200A - 1994-1997 7.3L Powerstroke

DURAMAX

XD350 - 245A - 2011-2019 GM 6.6L Duramax
XD351 - 220A - 2007.5-2010 GM 6.6L Duramax
XD355 - 220A - 2001-2007 GM 6.6L Duramax

CUMMINS

XD354 - 245A - 2007.5-2024 6.7L Cummins
XD512 - 245A - 2003-2007 5.9L Cummins
XD511 - 170A - 1998.5-2002 5.9L Cummins
XD510 - 170A - 1990-1998 5.9L Cummins

FOR MORE INFORMATION VISIT XDP.COM OR CALL US AT 1-888-343-7354