



7501 Straw Plains Pike, Knoxville, TN 37924

Tech Support: (760) 244-2049

Dodge Ram Pickup, Durango & Jeep Grand Cherokee 2004-2007 3.7 & 4.7L

Supplied Items:

Large Case Conversion Alternator with attached Bracket.

Adapter Harness

Washers

Wire Check: The original alternator is externally regulated by the computer. The original plug has two wires, one will have 12.6 volts with the key turned on and the other is the regulation wire. You will have to determine what the wires are connected to do. This process is as follows: With the vehicle in park and the parking break on, start the vehicle. Using a volt meter, test each of the alternator plug wires. The wire that has the highest voltage is the main power for the voltage regulation. **Mark or remember which wire is which for instructions below.**

Installation Instructions:

Disconnect the negative battery cable and then disconnect the positive battery cable.

Disconnect the wiring, remove the belt, and then remove the stock alternator from its mounting brackets.

Mount the new alternator to the existing mounting bracket on the engine with the double feet from the alternator on either side of the mounting bracket. It is important to note that the original alternator bracket has a "slip bushing" in it. If the Mechman alternator bracket will not slide over the bushing then it will need to be tapped back with a hammer (a very small amount of added room is needed). If extra space exists use the supplied spacers as necessary to reduce the extra space between the mounting bracket and the alternator bracket. Install the original long bolt and hand tighten. **See the diagram below.**

Mount the single ear to the belt tensioner by installing the shorter bolt. Tighten all the bolts sufficiently enough to ensure that the belt has the correct tension.

The green with red stripe wire is to be inserted into the plug wire slot with the higher voltage and the white with black stripe wire goes into the other plug wire slot. Ensure that the adapter plug supplied is connected to the newly installed alternator at the regulator. If the alternator does not charge with the vehicle running, turn off the engine and undo the wires and reverse them. After you have made certain that the alternator is charging properly, secure the wires so that they will not come out under normal usage. Connect the stock alternator plug to the supplied adapter harness and then connect the adapter harness to the newly installed alternator. **See the Adapter harness diagram below.**

Connect two new cables (1/0 awg.) **(not supplied)** between the alternator Post and the battery post, connecting the positive cable first and the negative post last. The original cables will not be used and therefore be individually covered with electrical tape and/or heat shrink tubing to prevent the cables from shorting against each other.

Adapter Harness Wire Color Usage:

White with Black Stripe wire will be connected to a regulated voltage.