



7501 Straw Plains Pike, Knoxville, TN 37924

Tech Support: (760) 244-2049

Chrysler 300 2005-2008 2.7L, 3.5L, 5.7L & 6.1L
Dodge Charger 2006-2008 2.7L, 3.5L, 5.7L & 6.1L
Dodge Magnum 2005-2008 2.7L, 3.5L, 5.7L & 6.1L

Supplied Items:

Large Case Conversion Alternator with attached Bracket.
Adapter Harness

Installation Instructions:

Note: Before removing the factory alternator you must complete the wire check as noted.

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 item #5 below.**

- 1 Disconnect the negative battery cable and then disconnect the positive battery cable.
- 2 Disconnect the wiring, remove the belt, and then remove the stock alternator from it's mounting brackets.
- 3 Mount the new alternator to the existing mounting block on the engine with the new bracket assembly, that is attached to the alternator. The bracket needs to be removed from the alternator and be completely disassembled, noting where the bolts go. **See the New Alternator view below.**
- 4 **See the exploded views below.** **Step #1:** Install the bottom part of the bracket to the original stock mounting location for the two bolts. Using the longer M10 flat head screw, insert it about half way into the threaded hole(this will help you get the bracket aligned properly). Install the shorter M10 flat head screw and tighten it with a 6mm allen wrench.
- 4A **Step #2:** Remove longer M10 flat head screw, that was used in the previous step. Align the larger bracket(the one with 4 holes in it) using one of the M8 socket head screws and the longer M10 flat head screw, just removed, to align this bracket. Using the same 6mm allen wrench tighten both screws securely.
- 4B **Step #3:** Install the bottom part of the bracket onto the original single bolt postusing the remaining short M10 flat head screw. Line up this bracket parallel with the existing brackets and tighten the screw securely.

- 4C **Step #4:** Install the top bracket over the bottom bracket, just installed in step #3, using the remaining M8 socket head screw and tighten the screw securely.
- 4D **Step #5:** Using the alternator as a guide, align it with the bracket holes to see if the bolt holes will align up. If the small bracket bolt hole is not aligned, loosen the M8 screw slightly and align the bracket with the alternator bolt hole, re-tighten the M8 screw when the holes are aligned with each other.
- 4E **Step #6:** Install the alternator to the brackets using the three M10 bolts with the spacers under the head of the bolts, tighten the bolts securely. Using the spacers keeps the bolts from bottoming out on the bottom bracket.
- 5 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. **See the Adapter harness diagram below.**
- 6 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. See the alternator with the labels to ensure correct connection of these cables. 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.

Green with Red Stripe wire will be connected to 12 volts.

Yellow with White Stripe wire is for the Power/voltage sense and is connected to the output of the alternator.