



1999-2007 GMC Sierra Alternator Replacement

This guide will demonstrate how to replace the alternator in your 1999-2007 GMC Sierra with a Vortec V8 engine.

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INTRODUCTION

This guide will demonstrate how to replace an alternator in any GMC Sierra made from 1999 to 2007. Although the guide will be demonstrated on my 1999 Sierra, you can use the same procedure for any GM truck or SUV that uses a Vortec V8 engine.



TOOLS:

- [1/4" Drive Ratchet](#) (1)
- [1/2" Drive Ratchet](#) (1)
- [15mm Socket](#) (1)
- [Socket 16mm](#) (1)
- [Battery Charger](#) (1)
- [8 mm socket](#) (1)
- [8mm wrench](#) (1)
- [10mm Socket](#) (1)

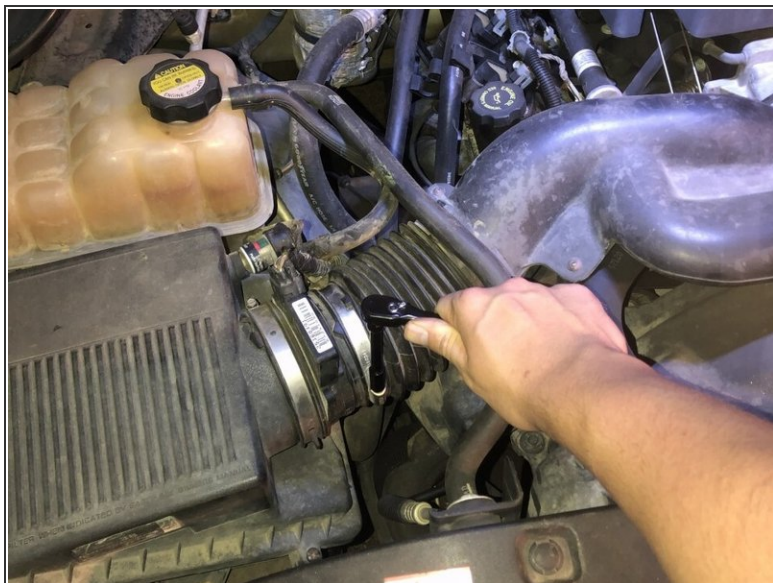


PARTS:

- [Alternator GM Vortec V8](#) (1)

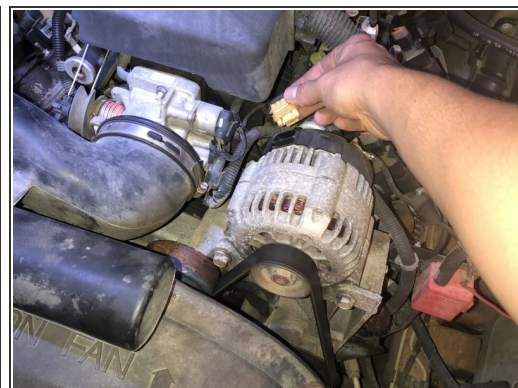
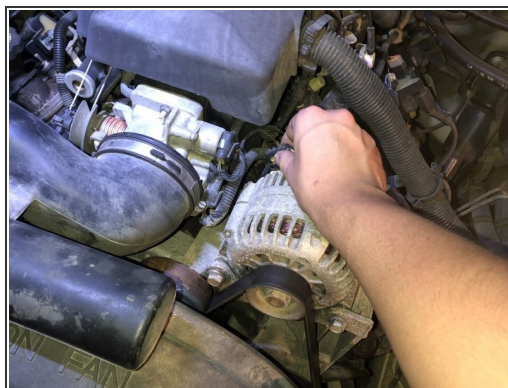
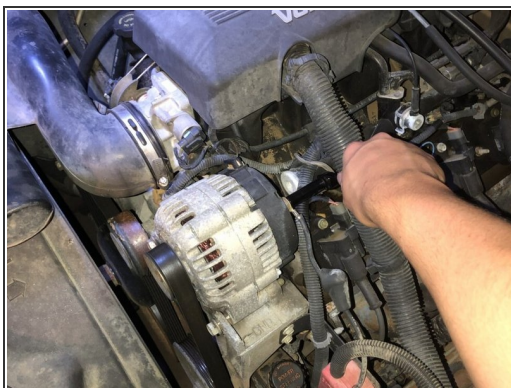
- **Caution:** Hazardous situation which, if not avoided, could result in minor or moderate injury.

Step 2



- Loosen the hose clamps on the factory intake tube with an 8mm socket and remove the intake tube. One hose clamp will be located at the port of the intake manifold and one will be near the factory air box.

Step 3



- Remove the black wire from the back of the alternator using a 10mm socket and disconnect the voltage sensor. For the Voltage sensor, depress the tab towards the base of the sensor and pull outwards.

Step 4



- Using a 15mm socket on a half inch socket wrench, loosen the belt tensioner by pushing downwards. The tensioner is spring loaded so you will need to use your free hand to remove the serpentine belt.

Step 5



- Using a 16mm socket, remove both alternator mounting bolts and remove the alternator. These will be located at the base of the alternator. You may need a crowbar to remove the alternator from the mounting bracket because the mounting points often rust.
- ☑ After replacing the alternator, make sure the battery is fully charged before starting the vehicle. You can do this by using a battery charger. Connect the red (positive) lead to the red (positive) battery terminal. Then do the same for the negative lead and terminal (black).
- ☑ Set the charger to 12V and TRICKLE CHARGE, then wait until the indicator reads FULL CHARGE.

To reassemble your device, follow these instructions in reverse order.