



Shop: (573) 334-2632 Toll Free: (888) 334-2632

2210 Broadway Cape Girardeau MO 63701

www.NationsStarterAlternator.com

Installation Guide for the GM Vortec Dual Alternator Bracket!

Congratulations on your purchase of the finest dual alternator kit available at any price! This installation guide covers general installation procedures that apply to all GM Trucks and SUVs with all 4.8L, 5.3L, 6.0L and 6.2L Vortec V8 engines. Should you require assistance for your specific application, simply contact us directly at 573-334-2632. Proper installation of your new dual alternator kit is imperative to ensure that it works properly and delivers what we promise, as well as offering you the reliability that Nations Starter & Alternator is famous for!

STEP 1: Remove the battery negative (-) cable

STEP 2: Verify the charge state of the battery (or batteries)

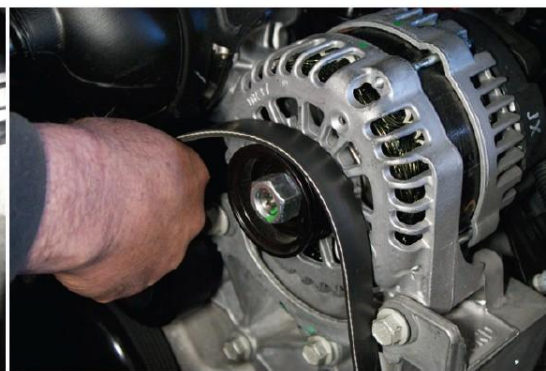
It is imperative that the battery (or batteries) is fully charged before any load is applied to your new Nations Alternator. Using a Digital Multi Meter, verify that the standing voltage of the battery (or batteries) is 12.6 – 13.0 volts. Anything lower will require that the battery (or batteries) is charged first. If your battery (or batteries) requires charging, this is a good idea to do this while you are performing the actual installation. Please refer to the manufacturer of your battery if in doubt how to correctly charge it.

STEP 3: Remove the belt from the OEM alternator

Release tension on the belt by disengaging the tensioner pulley. Remove the belt from the alternator pulley and lower it out of the way.



Use either a 15mm end wrench or ratchet and socket to release the tensioner assembly.



Take OEM Belt off of the alternator and remove from the engine compartment. Please note the OEM belt routing for future use.

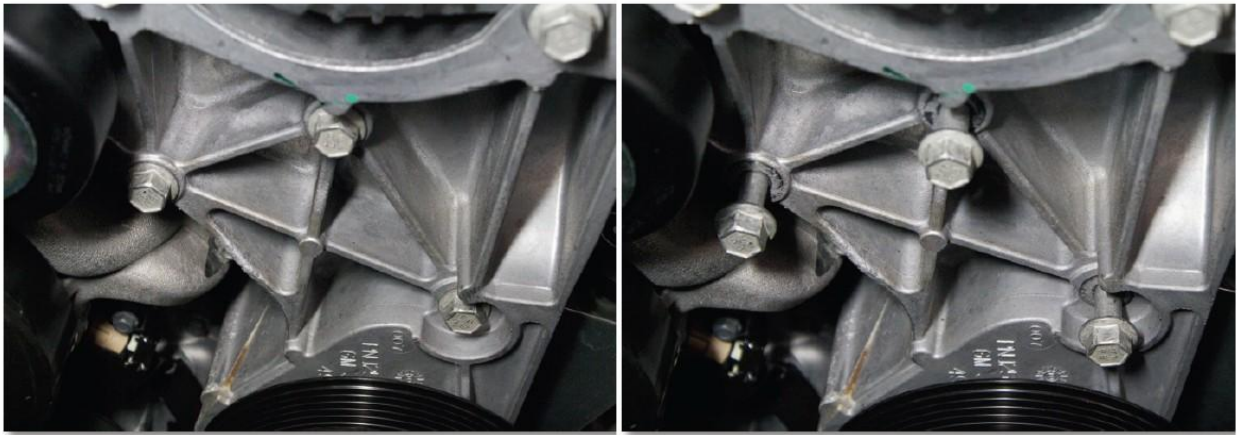


Shop: (573) 334-2632 Toll Free: (888) 334-2632

2210 Broadway Cape Girardeau MO 63701

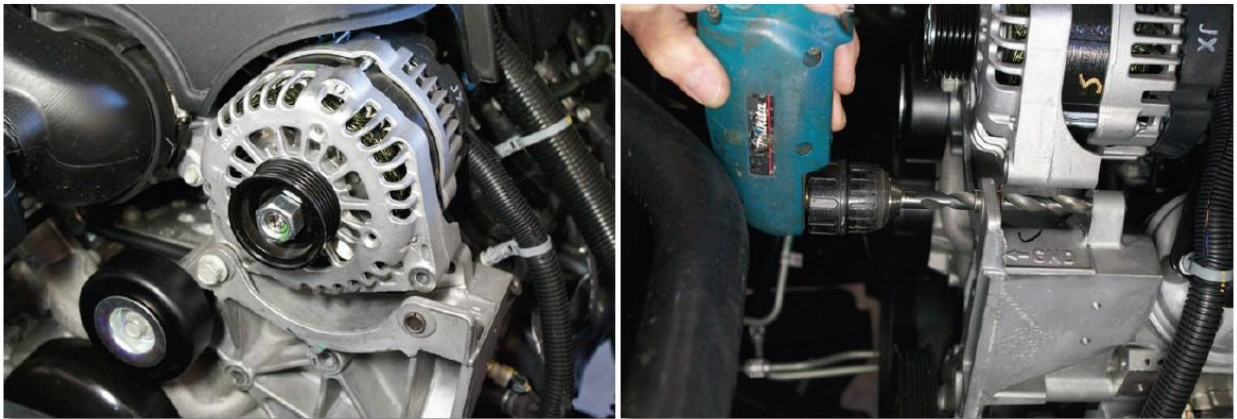
www.NationsStarterAlternator.com

STEP 4: Locate and Remove the 3 10mm bolts that secure the factory alternator bracket to the engine.



STEP 5: Loosen factory alternator mounting bolts and remove right hand bolt.

STEP 6: Drill out threads of right hand factory alternator mounting bracket.



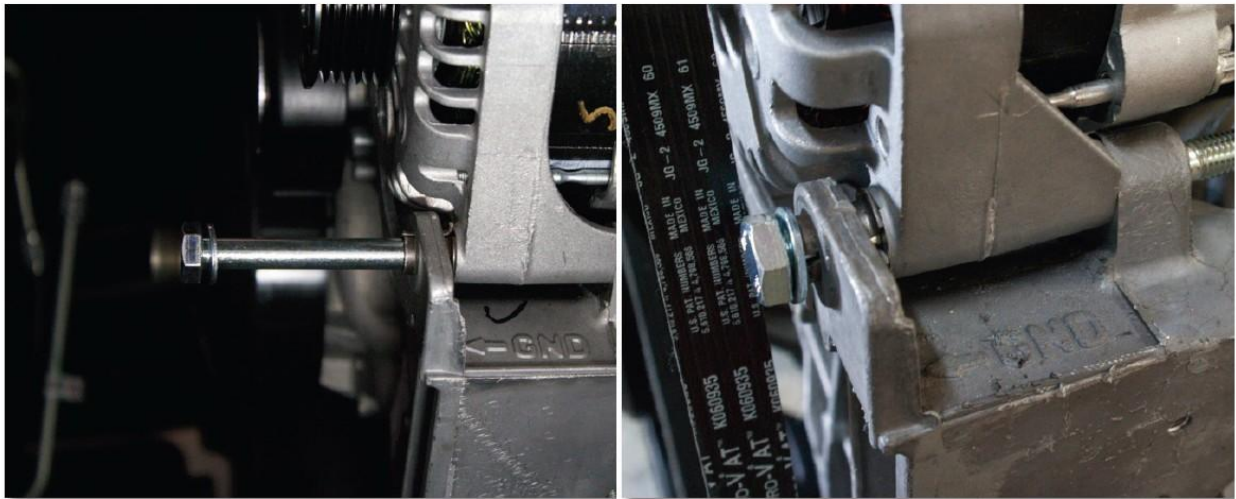


Shop: (573) 334-2632 Toll Free: (888) 334-2632

2210 Broadway Cape Girardeau MO 63701

www.NationsStarterAlternator.com

STEP 7: Insert 130mm (10x1.5mm) bolt into right hand OEM alternator mounting hole with included flat washer.



STEP 8: Attach the Dual Alternator Bracket to the OEM alternator bracket using (3) 130mm (10x1.5mm) bolts with supplied flat washers and tighten all three bolts.



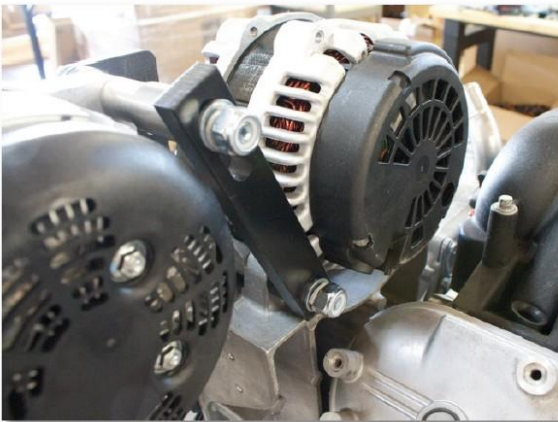


Shop: (573) 334-2632 Toll Free: (888) 334-2632

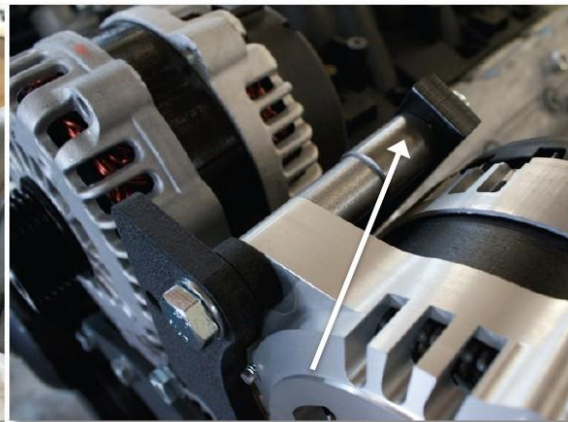
2210 Broadway Cape Girardeau MO 63701

www.NationsStarterAlternator.com

STEP 9: Attach Secondary Alternator to Dual Alternator Bracket with the included rear support bracket and spacer.

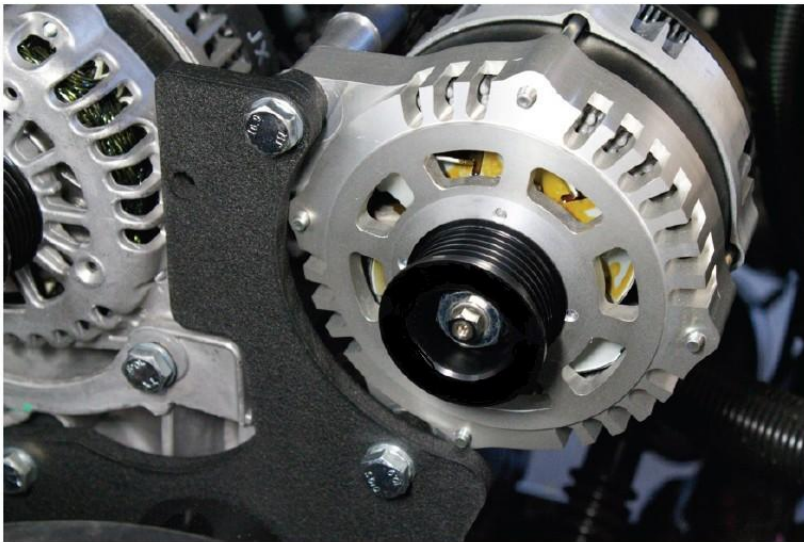


Attach Rear Support Bracket to the right hand rear of the factory alternator mounting bracket.



Insert Supplied Spacer between the rear support bracket and alternator mounting foot.

STEP 10: Tighten secondary alternator mounting bolts.





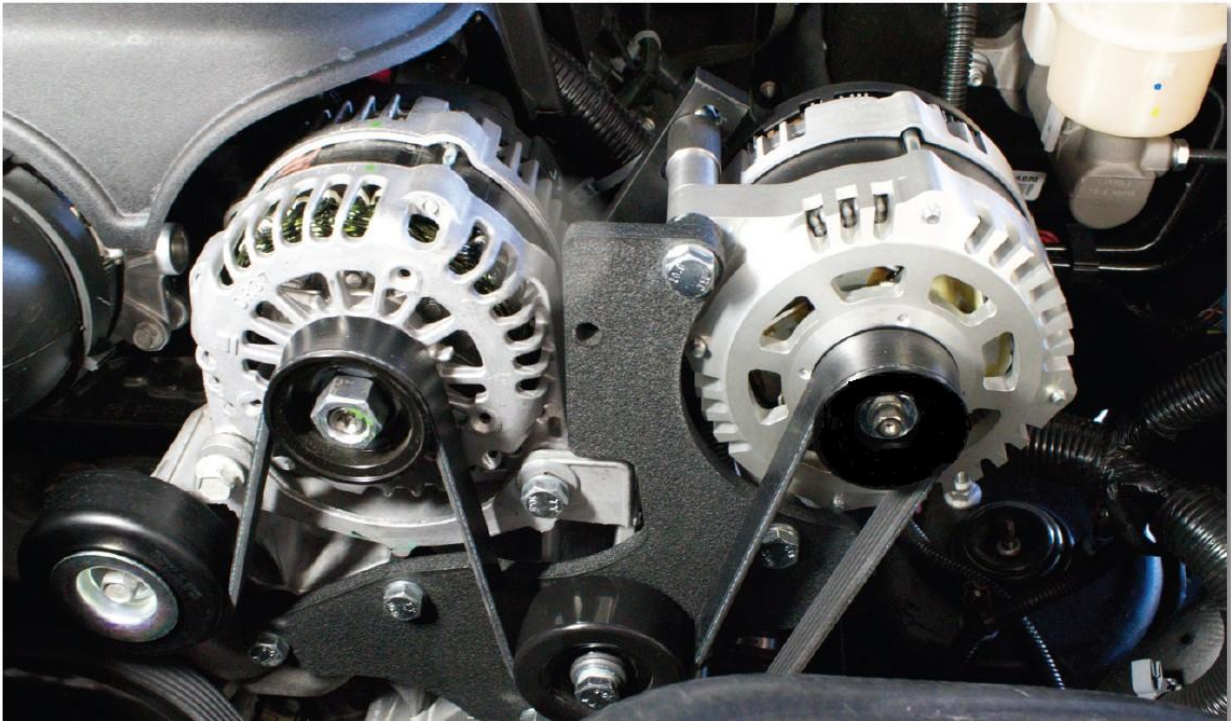
Shop: (573) 334-2632 Toll Free: (888) 334-2632

2210 Broadway Cape Girardeau MO 63701

www.NationsStarterAlternator.com

STEP 11: Make sure all mounting bolts are tight!

STEP 12: Install the supplied belt and route as shown below.



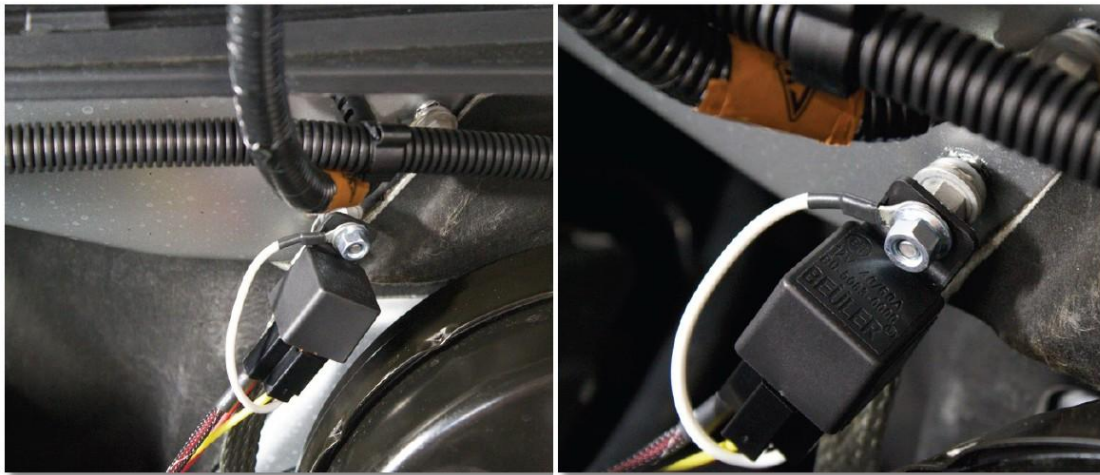


Shop: (573) 334-2632 Toll Free: (888) 334-2632

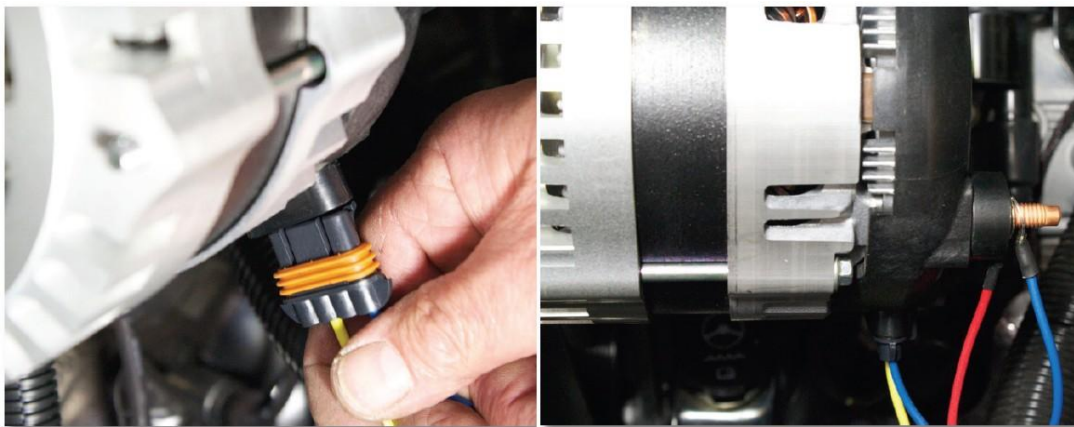
2210 Broadway Cape Girardeau MO 63701

www.NationsStarterAlternator.com

STEP 13: Install Relay to drivers side firewall ground stud along with the white ground ring terminal as shown below.



STEP 14: Attach Alternator Relay Harness Plug to the alternator's regulator plug.



Attach the Red wire to the output post of the alternator. (Note: If blue wire is provided, attach along with red wire to output post.)



Shop: (573) 334-2632 Toll Free: (888) 334-2632

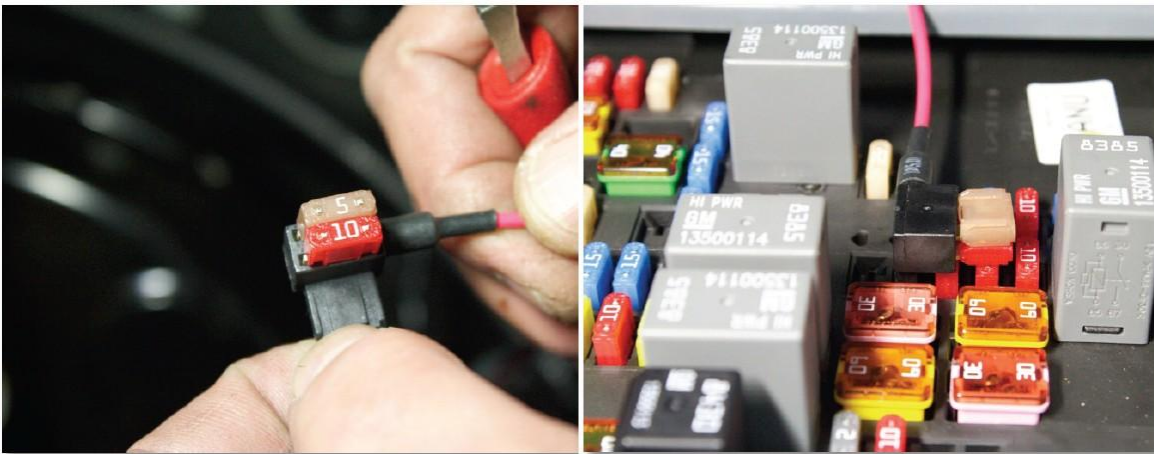
2210 Broadway Cape Girardeau MO 63701

www.NationsStarterAlternator.com

STEP 15: Remove factory fuse box cover and remove 10-amp fuse as shown.



STEP 16: Install 10-amp fuse into provided fuse tap and re-install.



STEP 17: Re-install factory fuse cover.

STEP 18: Install positive and negative cable to your secondary alternator and route to your desired battery.

STEP 19: Reinstall the battery negative (-) cable from STEP 1.