

Trunk Mount or Engine Mount Battery Ground Kit Installation Instructions

Insufficient grounding can lead to weak starting performance, poor alternator voltage regulation, and inconsistencies with electrical components. Most importantly, loss of horsepower can occur due to improper grounding of the spark plugs. No matter what type of ignition system you have, you will not get maximum spark energy until your spark plug is grounded 100%. This kit will allow you to wire your vehicle to establish one consistent ground, avoid ground loops, and allow the electrical components to operate at peak performance levels.

Note: When bolting a grounding connection to an engine component, ensure the area is clean and free of contaminants and allows a solid electrical connection.

Suggested tools: Heat gun, stripping tool, vice, cable cutter.

- A. (This step for V8 & V6 only) Ground Strap A uses the 11 AWG Wire Braid Grounding Strap to connect the cylinder heads to one another. Attach one eyelet to the rear of each head. Note: This kit comes with the ground strap pre-terminated to fit a wide variety of engine sizes. If you wish to shorten the ground strap, this kit contains additional eyelet terminals so you can cut the strap to suit your application. After cutting a ground strap, use a vice to crimp the terminals onto the end.
- B. Ground Strap B connects the cylinder head to the engine block using 11 AWG Wire Braid Grounding Strap. If you wish to shorten the ground strap, this kit contains additional eyelet terminals so you can cut the strap to suit your application. After cutting a ground strap, use a vice to crimp the terminals onto the end.
- C. You need to select a suitable point on the chassis for your Grounding Point. This area needs to be clean and paint free to allow a solid ground connection. Cables C1 and C2 come as one length of 2 AWG Black cable (1 AWG in select kits). After you have selected your grounding point, you will need to cut the single cable into Cables C1 and C2 to fit your application. Cable C1 will connect your engine block to the Car Chassis Grounding Point. Cable C2 will connect the negative battery terminal to the same Car Chassis Grounding Point.
--After cutting cable to length, strip the insulation back 5/8 inch. Place the shrink tubing over the cable/connector joint and use a heat gun to shrink the tubing into place. Slide the cable into a supplied connector and use a vice to crimp it in place.
- D. Cable D connects the positive terminal of the battery to the starter using 2 AWG Red cable (1 AWG in select kits). This cable will need to be cut to length to fit your application. Use the same stripping/crimping method as used for Cable C.
- E. All computers, ignition systems, and data acquisition devices, must be connected to the main Grounding Point on the car chassis.

