

FICMrepair.com offers two different cable kit options:



BASIC

- Pre-terminated on both ends 1/0 wire from the alternator to the fuse block
 - Fuse block
 - 250 amp fuse
 - Pre-terminated on both ends 1/0 wire from the fuse block to the battery
 - Pre-terminated on both ends 1/0 wire from the alternator to the vehicle frame
- Please note: No additional bolts, screws, or other hardware is necessary with the Basic Kit

DELUXE (Deluxe install shown on page #1)

This kit contains everything from the Basic Kit, and also includes:

- Pre-terminated on both ends 4/0 wire from the passenger side (positive post) battery to the driver side (positive post) battery
- Replacement bolts, nuts, and washers to replace the one-use only factory bolts
- Slide in place heat shrink tubing to further protect the 4/0 wire from the sharp edges of the radiator core supports
- 1/0 grounding wire to go from the already existing negative grounding wire on the driver side battery where it connects to the frame on the driver's side to the driver's front of the motor
- Hardware to mount extra grounding wire to existing drilled and tapped hole on driver's side of engine

Installation - Powerstroke 6.0

1. **REMOVE GROUNDS** - Remove the negative battery cables from BOTH batteries.
2. **ALTERNATOR GROUND** - Install the black ground wire on the right/driver's side of the alternator, using the alternator mounting bolt. Tighten to 35 foot pounds. Note that if you purchased the complete kit, you will be installing the longer of the two black cables at this location. (**NOTE DIFFERENT SIZED ENDS/HOLES)
3. **ALTERNATOR POWER** - Remove the nut from the alternator charge stud. Mount the 42" power cable on top of the factory wiring harness terminal and replace nut. Retighten to manufacturers suggested torque specifications.

***** YOU MUST KEEP THE STOCK WIRING ATTACHED TO THE ALTERNATOR**

Please Note: If you have purchased one of our high output alternators, tighten the charge lead to 71 inch pounds (5.91 foot pounds). DO NOT over torque unless you want to damage your alternator! This should just feel snug with a 1/4" ratchet for those of you that don't have torque wrenches!!

4. **CABLE ROUTING** Route the alternator power lead and ground cables together. Direct them around and NOT over the CAC tube and back towards the firewall/wire loom.

You **MUST** ensure there is no contact between the cables and CAC tube. (the tube gets hot enough to melt the insulation on your wires!). Use the provided zip ties to secure the cables in position. Route both cables to the passenger fender well. Mount the ground cable to an existing fender well bolt, and connect the power cable end into fuse block. You can use Velcro or double-sided tape (not included) to the fender if you prefer, but most just opt to have the power cable support itself and fuse block. the fuse block without impacting the build of the truck. Install shorter red/blue cable section from fuse block to passenger side positive battery. Install directly on top of factory power wire using existing vertically positioned stud.

*** If you purchased the Basic Cable kit only, reconnect the negative battery terminals and you are DONE!

If you purchased the **DELUXE** kit, LEAVE the negative cables disconnected and read on!

5. BATTERY INTERCONNECT CABLE and ENGINE BLOCK GROUND

1. Use included bolts to replace the OEM bolts on passenger and driver side positive battery post connectors.
2. Remove both radiator support brackets that run across the front of the engine bay. There are two 10mm bolts per side.
3. Slide both sections of heat shrink onto the interconnect wire before attaching to both positive battery post connectors.
4. Connect 4/0 wire to positive battery posts on each battery.
5. Align heat shrink with radiator support brackets. Use hair dryer to tighten heat shrink around cable before reattaching radiator support brackets. The heat shrink is to provide additional protection for the wire from the sharp edges of the radiator support.
6. Reinstall both radiator support products.
7. Remove air box from vehicle.
8. Trace negative battery cable from the driver side battery to the vehicle frame. Remove the bolt on the vehicle frame and use a wire wheel, sandpaper, or other abrasive to clean up the connection on the frame and the factory lug.
9. Install remaining (shorter) black grounding wire from this location on the frame to the driver's side front of the motor using the included larger diameter bolt and washer. There is a pre-existing drilled and tapped hole on the upper most driver side section of the cylinder head (under the rocker box) on the front face of the block. See image at end of these directions.
10. Reinstall air box.
11. Reconnect negative battery cables.
12. Start the truck and verify proper operation



Wire Kit Installation Instructions

50" - 1/0 Black ground cable (From alternator mounting stud to stud on passenger fender well)

50" - 1/0 Red power cable (Alternator to passenger fender well where fuse holder will be)

19" - 1/0 Red power cable (From fuse holder to passenger side battery power lug)

*** The two items below are only included with the DELUXE KIT

21" - 1/0 Black shrink tubed covered engine block ground cable (Engine Block to Frame Ground Point)

61"/75" - 4/0 Red Power cable (Battery Interconnect - Connects to driver and passenger side batt. pos terminal)

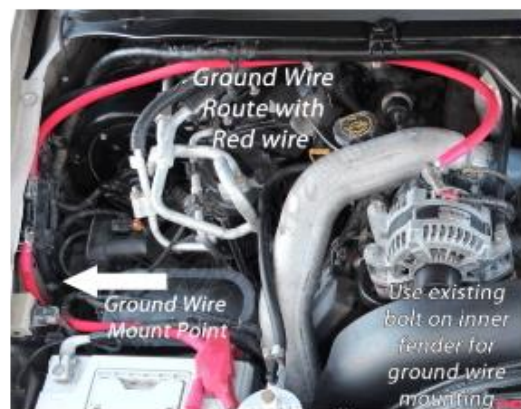
*** Optional >> 7.5" chassis/body to frame ground (under passenger door, replaces existing factory ground strap)

Please note the following:

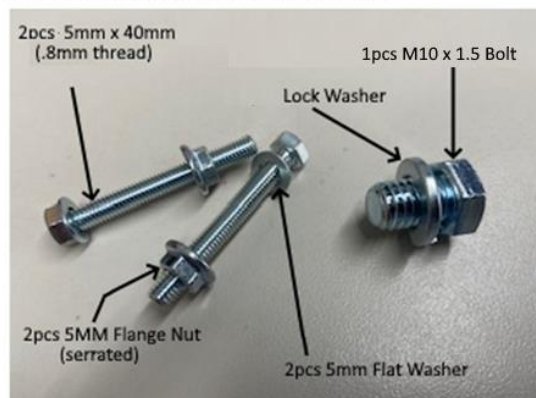
a) Depending battery lugs, and the alternator used, you may need drill/enlarge the holes in the cable lugs

b) To ease installation, two cables (19" Red power & 50" ground) have different sized lug holes lugs on each end

Be sure to orient properly

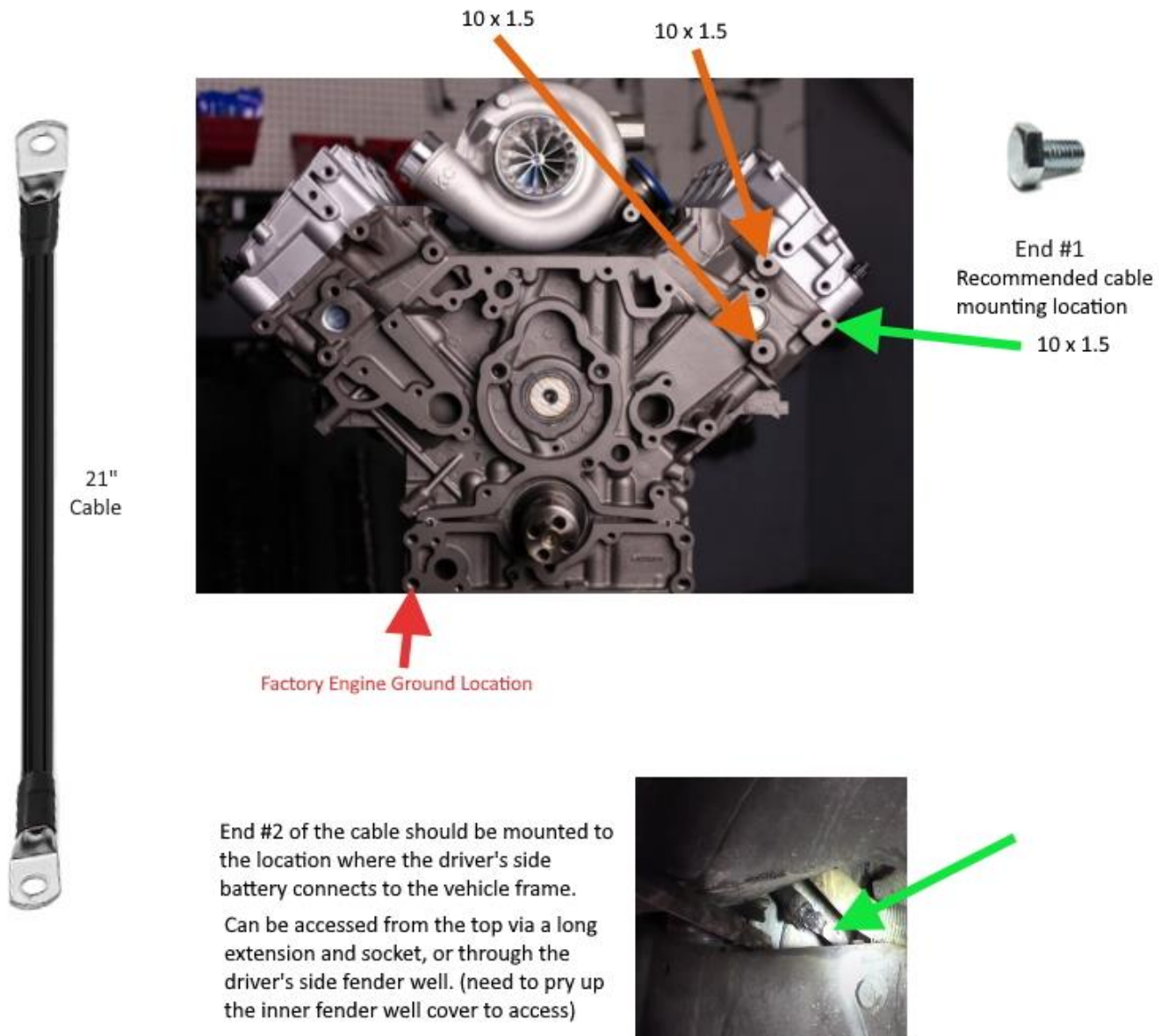


All Hardware is zinc plated to prevent corrosion

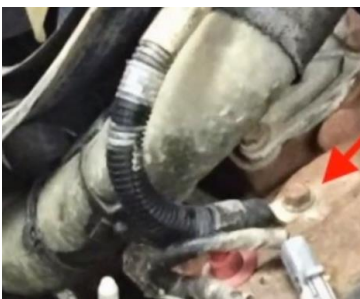


The fuse holder and hardware shown, along with a few zip ties are included in the kit. The long bolts replace your stock battery lug bolt, providing the additional length you need to attach the kit power cables to your battery lugs. The small bolt is used to mount the 21" ground cable to the front of your engine block.

Engine Block Ground Locations

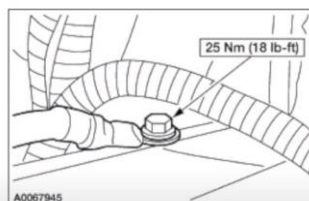


*** We recommend using a thin film of conductive No-Ox ID coating on all positive and negative battery cable connections. Why? Even 50+ year old phone system connections, which were coated with No-Ox at installation, have been reported to show zero signs of rust, oxidation, or corrosion. The stuff works!!



5. NOTE: Position the RH splash shield aside to access to battery negative cable bolt.

Remove the bolt and the primary battery negative cable.



*** Optional 7.5" Chassis Ground

Our optional chassis ground cable replaces the factory wire mesh grounding strap, and provides a dramatically superior grounding path. The factory chassis to ground cables are known failure points, so even if you did not opt for the replacement, it is highly recommended that you examine the cable. It can be found up under the vehicle, running between the body and the frame, aligned just behind the passenger door. Simply remove the existing mesh strap and install the 7" ground cable in its place, using the factory mounting locations and hardware.



Thank You!!

