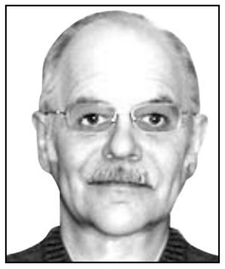
Ford Starter Conversion

Direct Drive to PMGR

By Wes Grueninger



The following information will soon be the latest addition to the Electrical Rebuilder's Association Web site Technical Library, and explains how to update Ford vehicles from the original direct-drive starter to the newest PMGR-style starter.

1) Remove negative (-) battery cable.
2) Follow the positive (+) battery cable to locate the starter-relay. Ford uses two styles of relays, as shown in Figure 1. It is not necessary to remove the wires going to the small terminals on the starter relay (see Figure 1).

NOTE:

3) Locate the cable between the direct-drive starter and the starter-relay.
4) Disconnect it from the starter-relay terminal and move it to the same terminal as the positive (+) battery cable. Two cables will now be connected to the same starter-relay terminal. The starter-relay should now look like the drawing in Figure 2.
5) Remove the direct-drive starter and clean dirt and corrosion from

Fig. 1

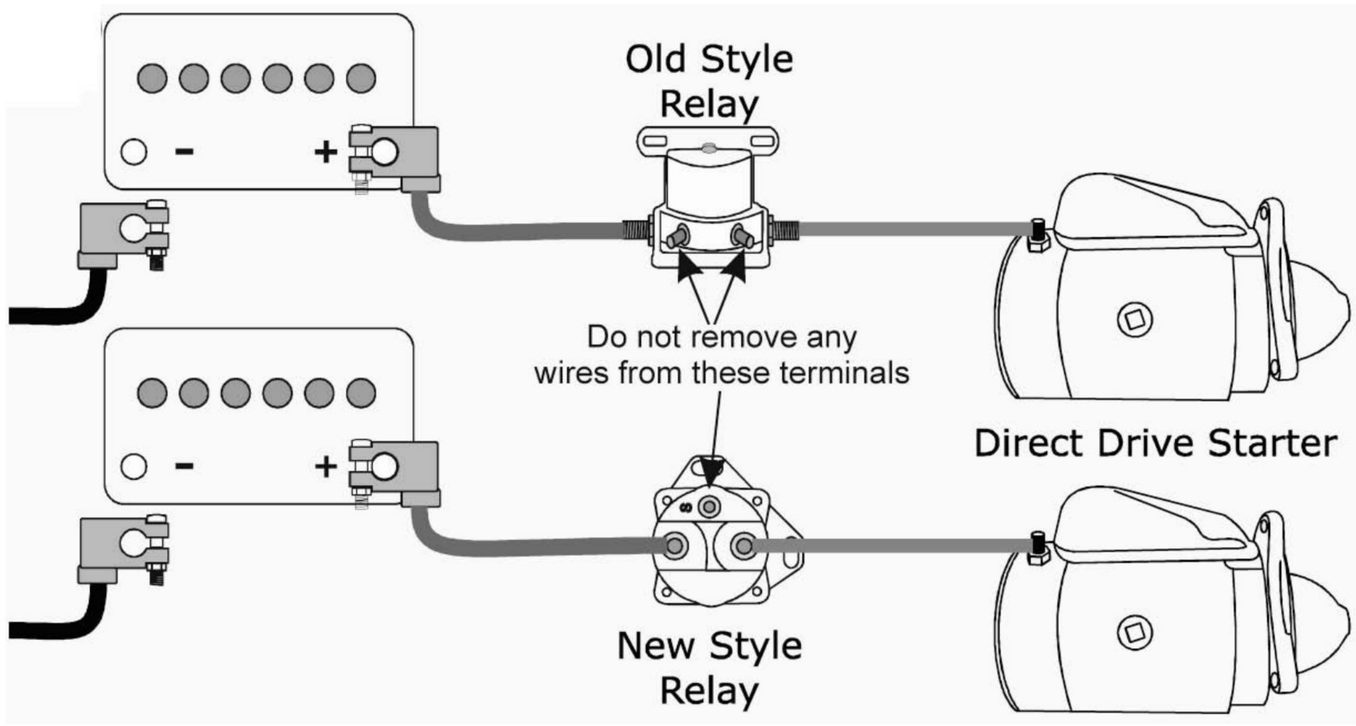


Fig. 2

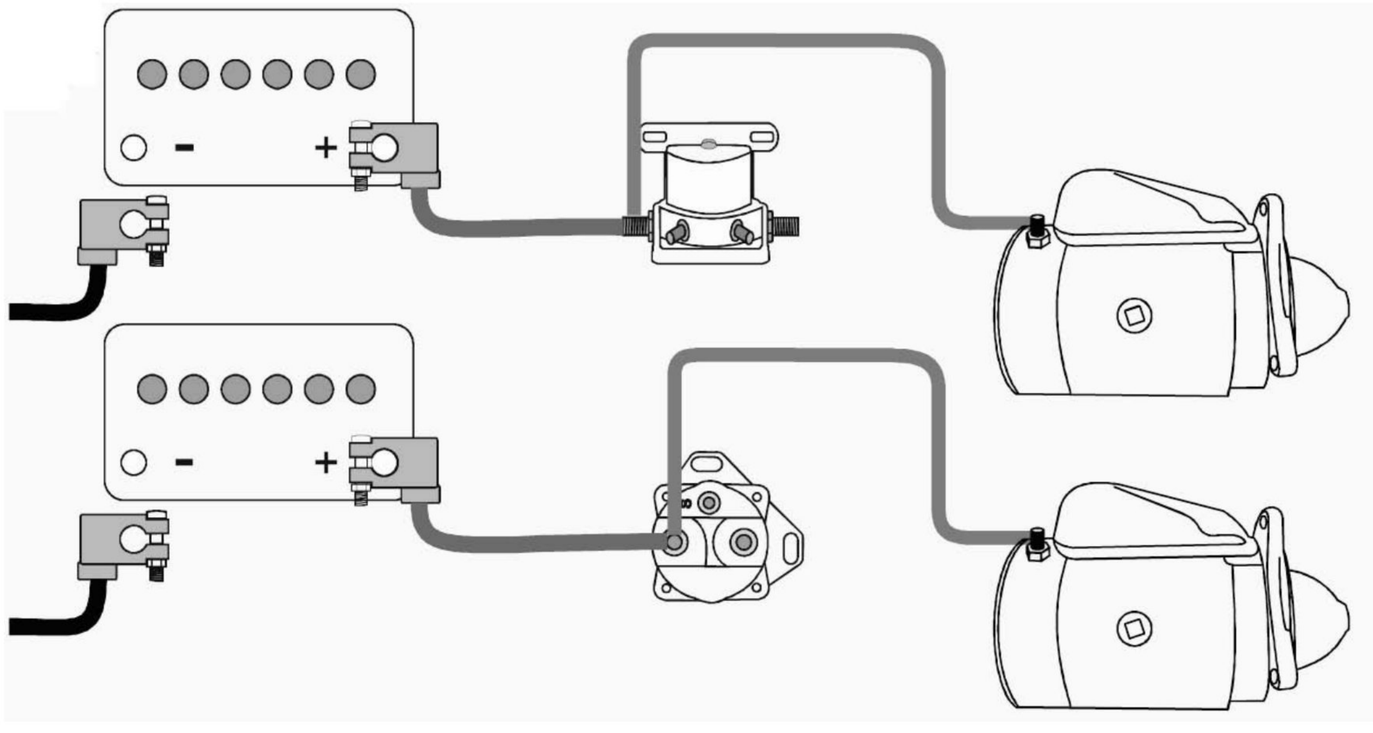


Fig. 3

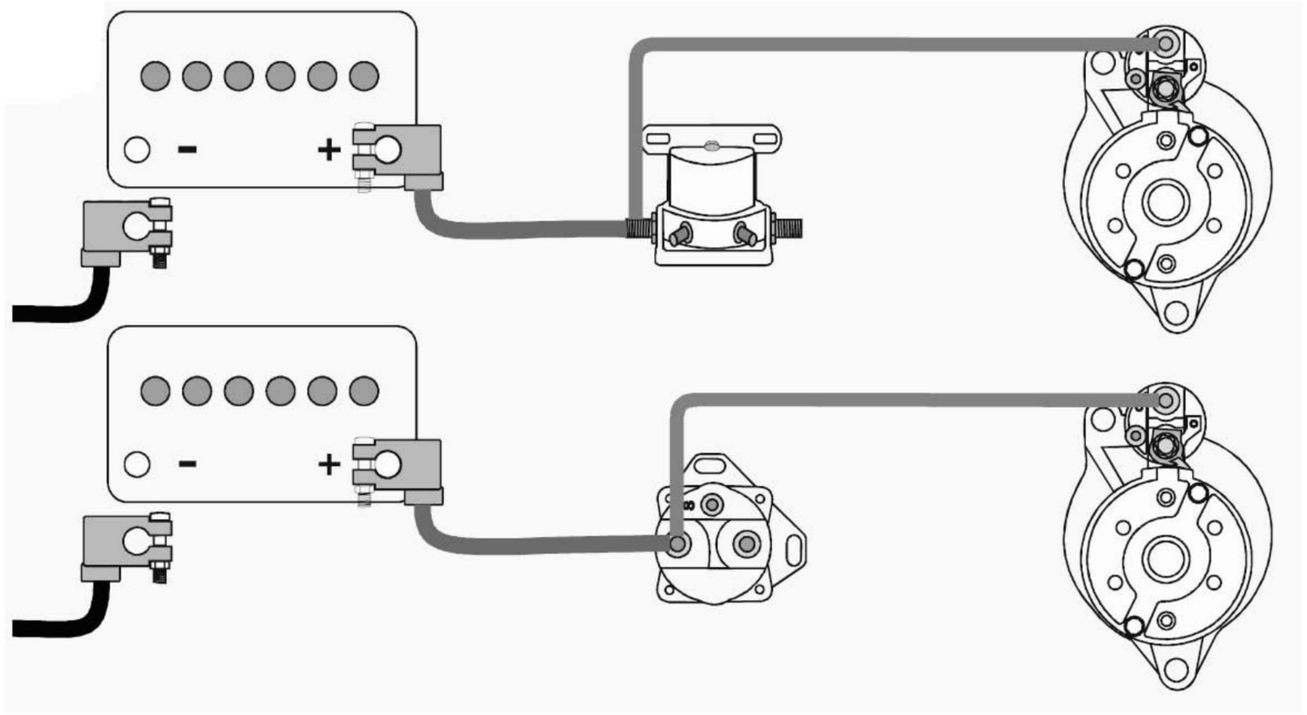
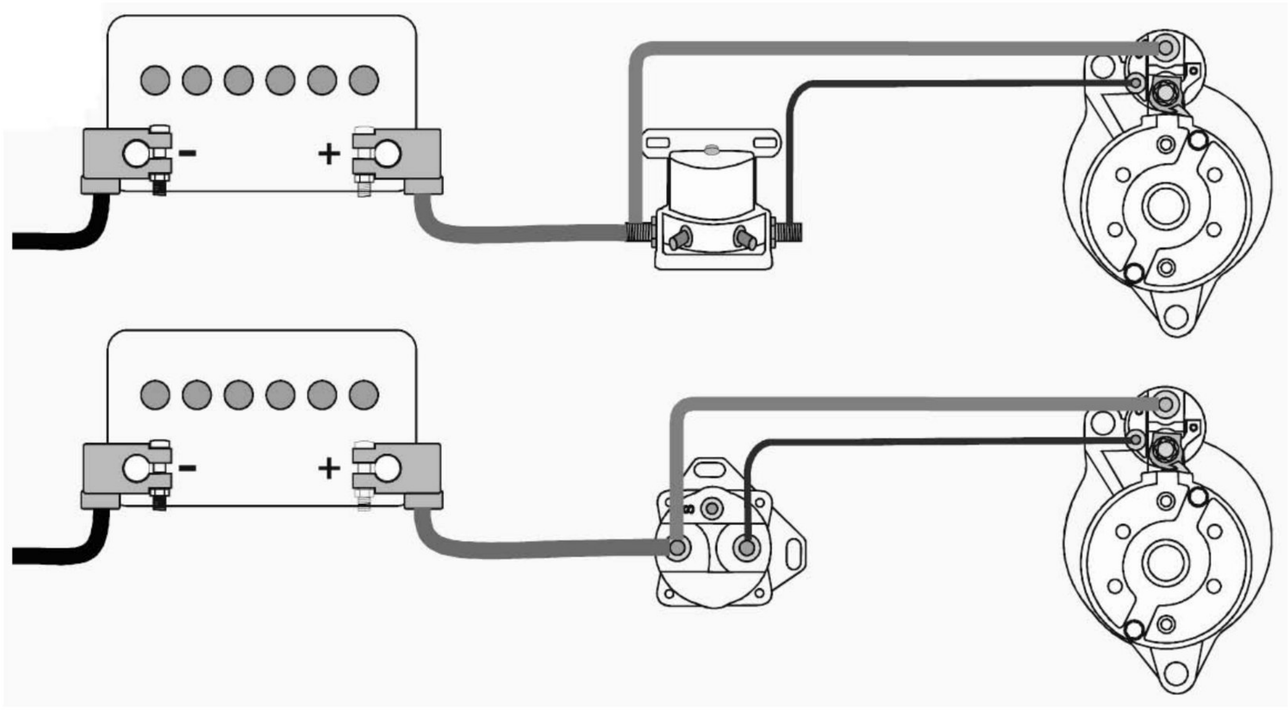


Fig. 4



the transmission mounting flange.

6) Install the PMGR starter.

7) Connect the starter cable (which you removed from the direct-drive starter) to the upper terminal of the PMGR starter solenoid. You may have to enlarge the hole in the cable-end to fit over the PMGR starter solenoid stud.

You will destroy the solenoid cap if you overtighten the nut. The installation should now look like Figure 3.

CAUTION!

8) Install a 5/16-inch ring-terminal on one end of a length of 10-gauge wire and connect it to the now-empty terminal on the starter-relay.

9) Run the 10-gauge wire to the "S" terminal of the PMGR starter solenoid. The "S" terminal may be a 1/4-inch press-on spade or a 6mm stud.

10) Install the appropriate end and connect it to the "S" terminal. If the "S" terminal is the stud-type, do not overtighten.

Be sure to route all wires to prevent chafing or contact with hot engine parts.

11) Reconnect the negative (-) battery cable.

Wiring is now complete and should look like the drawing in Figure 4.

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