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TA 2022 Buick Mini Starter Installation Instructions

1. Disconnect battery ground cable and note position of wires connected to starter. Identify wires so they can be re-connected to the same terminals. Disconnect wires before removing starter, if possible. If not possible, disconnect wires as starter is removed from engine.
2. Remove starter mounting bolts. (As starter is removed from engine, note position of any shims and/or spacer washers. Shims may be stuck to either engine mounting area or to starter mounting area.)
3. Clean wire terminals so that bare metal is present for a good connection.
4. Connect any wires to starter that were disconnected with original starter removed, using nuts provided in package.
5. Place starter in proper place and install supplied mounting bolts. Check for proper ring gear backlash as shown below. Adjust as necessary.
6. Connect starter wires if not previously done, using nuts provided in package.
7. Clean battery ground cable terminal and battery terminal. Also, clean other battery terminal and cable terminals. Reconnect battery cables, connecting ground terminal last.

NOTE: After installation, periodically check for loose or corroded battery or starter terminals. Often-times, what appears to be a defective starter is nothing more than a problem with the connections, or a discharged battery.

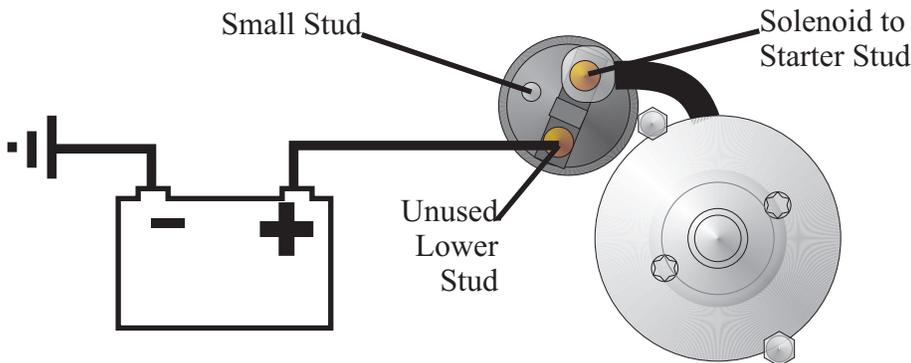
Wiring

If your vehicle uses a stock HEI or aftermarket ignition that DOES NOT require the use of a resistor, wire the starter as described in section 1 below. If your vehicle meets the criteria of wiring description 1 but you have incorporated a remote solenoid then wire the starter as described in section 2 below. If your vehicle is using a points ignition system or any other ignition system that requires a resistor, wire the starter as described in section 3 below.

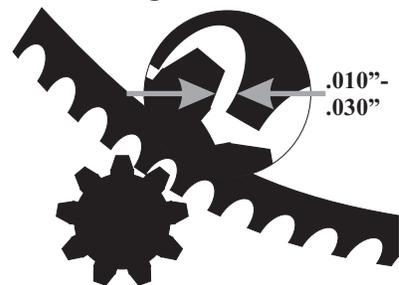
1. Standard Wire Connection Connect the battery cable to the unused lower stud and the purple (starter switch) wire to the small stud. Do not connect the yellow (coil) wire.

2. Remote Solenoid If using a remote solenoid, connect the battery cable from the solenoid to the unused lower stud. Connect a jumper wire from the lower stud to the small stud. Follow the solenoid directions for other connections

3. Ignition Resistor Bypass Connect the positive battery cable to the unused lower stud. Connect the Purple (starter switch) wire to the small stud. Obtain a 10 amp diode and splice it into the yellow (coil) wire, then connect to the upper stud that is jumped to the starter. The diode is used to prevent feedback voltage from the coil to the starter. Without the diode the starter will continue to run after engine is started via voltage from the coil.



Ring Gear Backlash



When the pinion is engaged into the ring gear, there is to be **.010\"-.030\"** backlash between them (see figure above). This can be checked with a wire gauge when holding the pinion into the ring gear with a screwdriver. If the fit is too tight shim the nose from the block