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## **PerTronix Starter Motor Installation Instructions Part # S3003, S3004**

1. Disconnect the battery cables from the battery.
2. Before mounting starter, measure the Ring Gear depth. See illustration below. The measurement should be taken from the engine side of the ring gear to the engine side of the separator plate (the separator plate is the thin piece between the engine and transmission). 3/8" measurement uses starter #S3003 - 3/4" measurement will use starter #S3004. Rotate the engine and make sure that the ring gear teeth are all in good condition. Worn or broken teeth will damage the new starter and this will not be covered by warranty.
3. Mount the Starter to the transmission. The end of the pinion gear should be at least 1/16" from the ring gear. If shimming is necessary, use a Dorman #02359 shim.
4. Wiring:
  - a) If you are installing in a car that uses the Older Ford style remote starter solenoid, put a jumper wire between the large battery cable terminal and the small ignition terminal on the starter. Use a 12 gauge wire for this. Connect the original solenoid starter cable to the large terminal on the starter.
  - b) If you are Not using a Ford remote solenoid, connect the battery cable to the large terminal on the starter and a 12 gauge wire from the ignition switch 'start' terminal to the small terminal on the starter.Switch wire should be at least 12 gauge and battery cable and ground cables should be new and of appropriate gauge. Make sure you have a good ground cable from the engine to the frame.
5. Reconnect battery cable at the battery.
6. Check starter operation. It should turn the motor over freely and quietly. If there appears to be any drag of grinding noises, recheck your pinion engagement.

