



Installation Instructions

GEAR REDUCTION STARTER

Part #'s: 67050, 67052, 67053, & 67054

Contents: Starter Motor
Mounting Bolts
Engine Block Shim

This starter motor is designed for 12 volt-negative ground electrical systems.

Notice: NEVER OPERATE THIS STARTER MOTOR THAN 30 SECONDS AT A TIME WITHOUT ALLOWING IT TO COOL FOR AT LEAST TWO MINUTES. OVERHEATING CAUSED BY TOO LONG OF A CRANKING PERIOD WILL DAMAGE THE STARTER MOTOR.

Caution: DISCONNECT BATTERY LEADS PRIOR TO STARTER INSTALLATION.

INSTRUCTIONS

Hold starter motor into position at engine block. Install (2) supplies mounting bolts. Tighten to 38 lbs. ft.

Note: Before operating **PROFORM**® Starter, pinion gear clearance must be checked.

- (A) Check starter pinion to ring gear clearance. This should be $(.100 \text{ inch} \pm .040 \text{ inch}) [2.54]$ See Figure 1.
- (B) Check starter pinion backlash. This should be $(.040 \text{ inch} \pm .015 \text{ inch}) [1 \text{ mm}]$ Measure and adjust as follows:
 - 1) Pull out and engage pinion gear into flywheel.
 - 2) Measure clearance between meshing gears. See Figure 2.
 - 3) Remove starter mounting bolts and install supplied shims as required.
 - 4) Tighten starter mounting bolts to 38 lbs. ft.

WIRING

Caution: BATTERY LEADS MUST BE DISCONNECTED PRIOR TO STARTER INSTALLATION.

Note: Two terminal studs at end of solenoid. See Figure 3.

- A) Upper terminal
- B) Lower terminal studs

- 1) Attach positive battery to lower terminal.
- 2) Connect a 12 or 14 gauge wire from starter switch to the upper terminal stud.

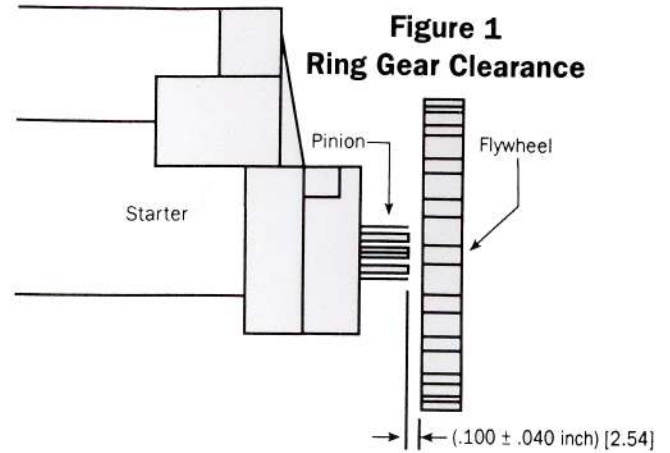


Figure 2
Pinion Back Lash

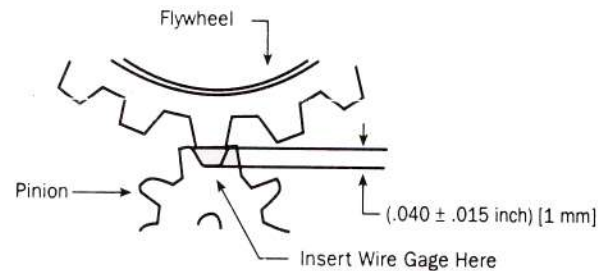


Figure 3
Electrical

