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Product Instructions

STARTER INSTALLATION

Contents

- 1 Starter Motor
- 2 Mounting Bolts
- 2 Engine Block Shims
- 1 Solderless Terminal
- 1 Round-nose Shim
- 1 Housing Shim
- 1 Housing Gasket

This Starter is intended for use on GM corporate engine, small and big block V-8 as well as 90" V-6. With either 12.75" (153 tooth) or the 14" (168 tooth) flywheels.

The armature housing may be rotated in relation to the mounting block. This allows for adjustment, if necessary, for clearance problems when used with large wet oil sumps and/or header systems.

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

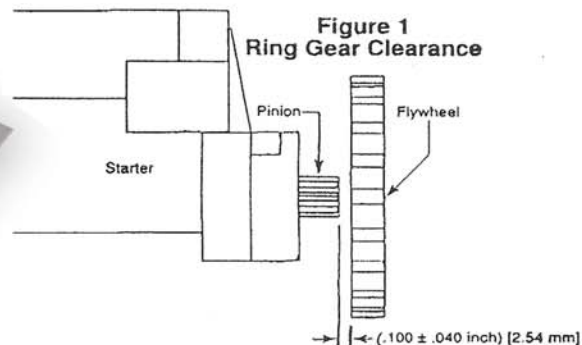
****NOTE: NEVER OPERATE THIS STARTER MOTOR MORE THAN 30 SECONDS AT A TIME WITH OUT ALLOWING IT TO COOL FOR AT LEAST 2 MINUTES. OVER HEATING CAUSED BY TOO LONG OF A CRANKING PERIOD WILL DAMAGE THE STARTING MOTOR.**

LET'S GET STARTED...

- Disconnect battery leads prior to installation!
- Before opening starter, gear clearance must be checked!

(A) Starter pinion to ring clearance should be between .100" and .040". (See Fig. 1) If not enough clearance exists, install the supplied shims as follows:

- 1) Remove nose piece mounting bolts (3).
- 2) Remove end cap and bolts (2).
- 3) Carefully remove armature with housing, not to allow armature to move within housing.
- 4) Fully remove nose piece gasket and discard.
- 5) Insert round shim into mounting block.



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LET'S CONTINUE...

- 6) Align new gasket and housing shim into position.
- 7) Insert housing into starter mounting block.
- 8) Install bolts (3) and tighten to: 65 lbs. inch.
- 9) Assure o-ring seal is in place on armature housing.
- 10) Carefully install armature and housing into mounting block.
- 11) Install end cap and bolts, tighten to: 50 lbs. inch.

(B) Starter pinion backlash should be between .040" and .015". Measure and adjust as follows.

- 1) Pull out and engage pinion gear into flywheel.
- 2) Measure clearance between meshing gears.
(See Fig. 2)
- 3) Remove starter mounting bolts and install supplied shims as required.
- 4) Tighten starter mounting bolts to: 38 lbs. ft.

Figure 2 Pinion Back Lash

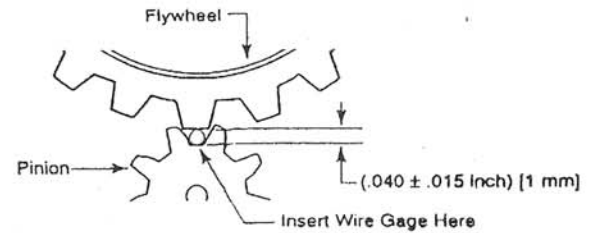
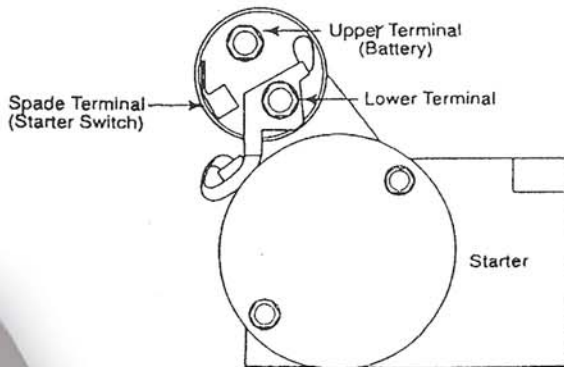


Figure 3 Electrical



Wiring

- Disconnect battery leads before installation!

****NOTE: 3 TERMINALS AT END OF SOLENOID (SEE FIG. 3.)**

- 1) Attach position battery to upper terminal.
- 2) Connect a 12 or 14 gauge wire from the starter switch to the spade terminal. Use the supplied mating connector if required.