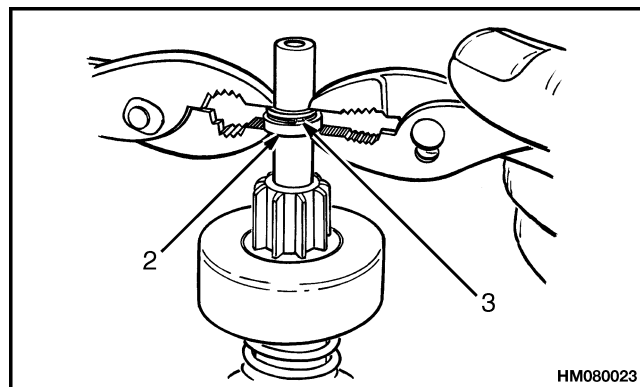




## INSTALL

1. Make sure the surfaces of the flywheel housing, the spacer, and the starter are clean and smooth. Install the gaskets or use a sealant (Hyster part number 264159) that forms a gasket between metal parts.
2. Install the capscrews and washers as necessary. Tighten the capscrews.
3. Connect the wires and the cables to the starter according to the labels made during removal.
4. Connect the ground cable to the battery.



1. THRUST COLLAR
2. RETAINER
3. SNAP RING

*Figure 5. Retainer Installation*

## General Checks and Adjustments

1. Before removing the starter, see Figure 6 and Figure 7. Make the following checks:

- a. Check the voltage of the battery.



### CAUTION

**Do not operate the starter for more than 30 seconds. Be sure to wait at least two minutes between checks.**

- b. Check the voltage at the motor terminal of the solenoid while the key switch is in the "START" position. See Figure 6. The voltage must be more than 9 volts for a 12-volt system or more than 18 volts for a 24-volt system.
- c. Inspect all the connections to the battery, starter solenoid, key switch, and neutral start switch. Clean and tighten, if necessary.
- d. Check the resistance of the connections with a voltmeter. See Figure 7. Each connection must not have more than a 0.5 volt loss for a 12-volt system or 1.0 loss for a 24-volt system.

- e. Check the voltage at the "S" terminal of the solenoid. It must be more than 7 volts for a 12-volt system or more than 14 volts for a 24-volt system.

2. After removing the starter, but before disassembly, make the following checks:

- a. Check the ring gear (on the flywheel) for damage.



### CAUTION

**The pinion will move toward the drive end housing when turned in the locked direction. Do not turn it too far or it will lock in the extended position.**

- b. Check the pinion gear (on the drive clutch) for damage. The pinion must turn in one direction and lock in the other. Replace the complete assembly if any part has damage.
- c. Check the clearance of the armature bushings.
- d. Check for cracks in the drive end housing.