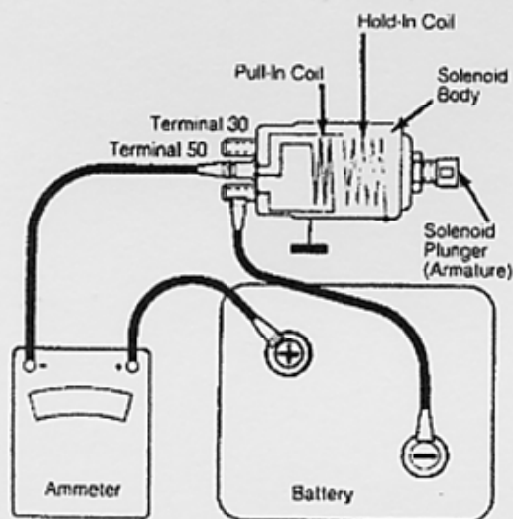


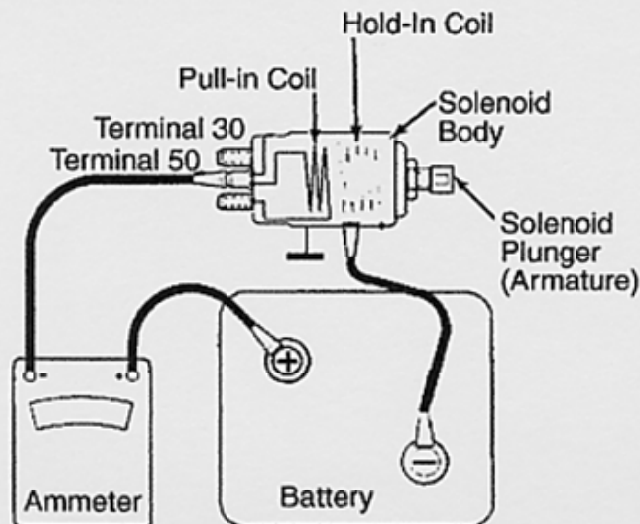


29411

Fig. 2: Typical Connections for Pull-In Test

#### Hold-In Coil

Connect jumper wires between a 12 volt battery and solenoid, while pressing armature into solenoid by hand. See Fig. 3. Armature should remain held in. Disconnect jumper terminal 50 and armature should immediately return to its outer position.



29412

Fig. 3: Typical Connections for Hold-In Test

NOTE: Do not attempt to repair solenoid. If either test is unsatisfactory install new solenoid.

## REASSEMBLY

- 1) Slide drive pinion assembly and thrust washer onto armature shaft. Install "C" clip into groove in armature shaft and pull thrust washer up over clip.
- 2) Align fork in drive end housing and insert pivot pin. Slide armature assembly into drive end housing, coupling the shift fork onto the drive pinion flange.
- 3) Install rubber insert in drive end housing. Guide yoke assembly over armature while aligning notch with rubber insert. Tap yoke into full contact with drive end housing.
- 4) Install brush assembly. On models with through bolts,

cutouts in brush plate slide over through bolts. On models with screws, brush plate cutouts align with loops in field windings.

5) Plates are properly positioned when screws are installed in commutator end housing. Install brushes and springs. Ensure field winding brush leads do not contact yoke.

6) Slide commutator end housing into position and secure with nuts and washers or screws, as necessary. Install drive end housing. Install shims onto armature shaft at commutator end to eliminate end play and install "C" clip in groove.

7) Install bearing cap seal on commutator end housing. Lubricate end of armature shaft with lithium-based grease and install bearing cap. Lubricate plunger hook and place in position over shift fork in drive end housing.

8) Install solenoid body with return spring properly positioned. Tighten retaining screws and field connections.