INSTALLING FIELD COIL ON STARTERS WITH CENTER BEARING PLATE

WARNING!!! ALWAYS USE PROPER EYE PROTECTION WHEN PERFORMING ANY MECHANICAL REPAIRS TO A VEHICLE – INCLUDING, BUT NOT LIMITED TO, ANY INSTALLATION AND OR REPAIRS TO THE DELCO REMY STARTERS. FAILURE TO USE PROPER EYE PROTECTION CAN LEAD TO SERIOUS AND PERMANENT EYE DAMAGE.

Only perform the mechanical functions that you are properly qualified to perform. Mechanical repairs that are beyond your technical capabilities should be handled by a professional installation specialist.

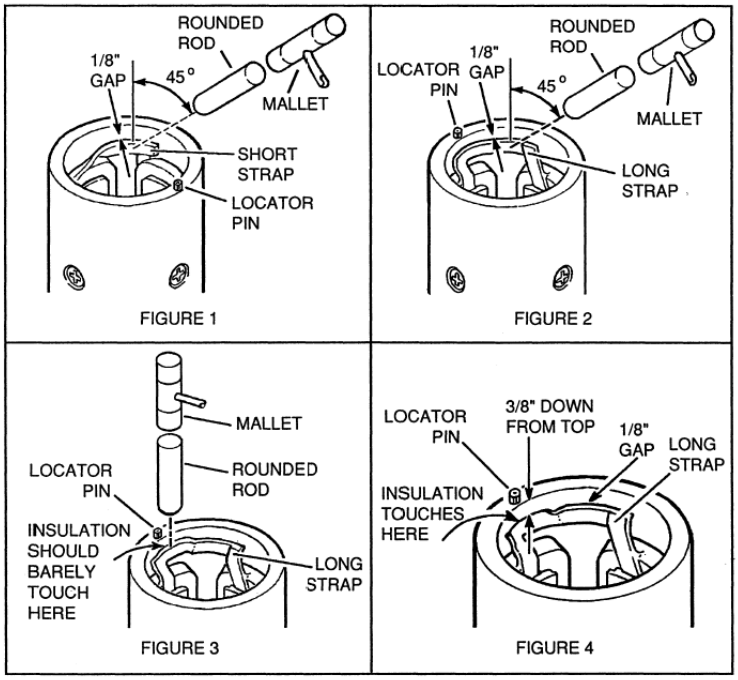
NOTICE! FOLLOW ENGINE AND/OR VEHICLE MANUFACTURER'S INSTRUCTIONS CAREFULLY WHEN REMOVING AND INSTALLING THE STARTERS.

The field coil in this package is a universal replacement for certain starting motors both with and without a center bearing plate. The center bearing plate, if present, is installed in the drive end housing as a shield between the frame and field and drive end housing, with a bushing in the center that fits over the armature shaft.

IMPORTANT! Use these instructions only when installing field coil into starting motor with center bearing plate. Two field coil crossover straps must be reshaped slightly to avoid contact with heads of center bearing attachment screws when motor is reassembled. If crossover straps are not reshaped, they will become grounded as the insulation is worn through. This may happen immediately upon reassembly of starter or soon thereafter, causing very short useful life of the repaired starter.

It is not necessary to reshape straps on starters without center bearing plates. For those starters, install field coil normally and discard these instructions.

1. Install field coil to frame as you would in any starter. Tighten pole shoe screws securely. Install brushes and brush holders to keep brush rigging in place while field coil crossover straps are reshaped.
2. Place frame and field assembly on clean flat surface with brush end down. Note two crossover straps between field coils on end of frame and field now in the "U" position. One strap is shorter and is located opposite from locator (dowel) pin in frame. The other strap is longer and is located next to locator pin. After normal installation, the curvature of these straps will be positioned roughly even with the inside surface of the field coils.
3. **NOTICE!** Use only rubber mallet and smooth rounded wood or plastic rod about 1/2" in diameter to reshape straps. The field coils are soft metal and are easily reshaped. Use of hard metal or sharp instruments may cut the field coil insulation and either cause an immediate ground condition or cause a ground to develop later, shortening the life of the repaired starter.
4. Find shorter crossover strap on side of frame opposite from locator pin (Figure 1). Place rounded rod against the squared off end of strap, at about a 45 degree angle with the surface. Carefully tap against end of the rod to roll strap over toward frame, stopping when insulation on strap is about 1/8" from frame at closest point.
5. Find longer strap (Figure 2). Starting with end closest to the locator pin, use similar motion to roll the strap over to about 1/8" from the frame, moving along the strap so that entire length is about same distance from frame. Move rod back to area next to locator pin and place it vertically on the strap (Figure 3). Tap carefully straight down on rod and bend strap in this one place until insulation just touches inside of frame. This should position top edge of strap about 3/8" down from the edge of the frame in this area (Figure 4). **DO NOT** tap the strap tightly against the frame or the insulation may be cut, causing a grounded condition.
6. Reassemble the starting motor normally.



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