



BRUSH INSPECTION

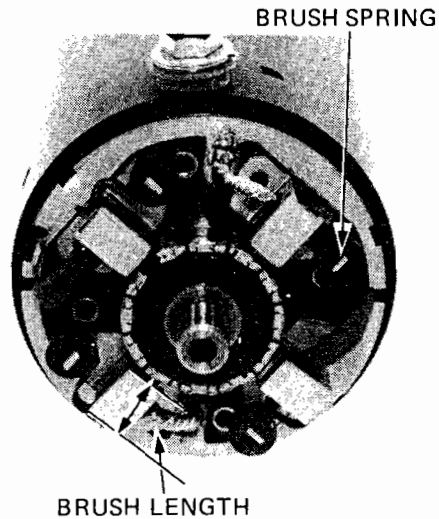
Remove the starter motor case screws.

Inspect the brushes and measure the brush length.

Measure brush spring tension with a spring scale.

SERVICE LIMITS:

Brush length:	6.5 mm (0.26 in)
Brush spring tension:	680 g (24.0 oz)



COMMUTATOR INSPECTION

Remove the starter motor case.

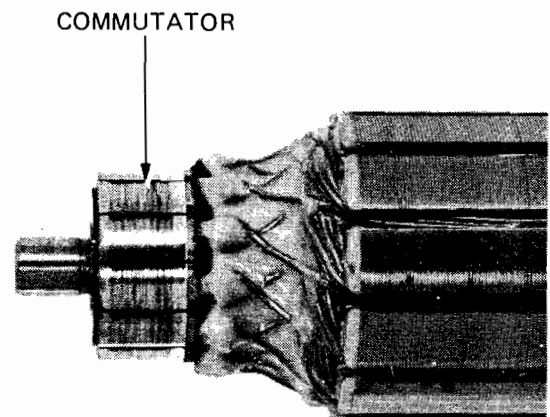
NOTE

Record the location and number of thrust washers for correct reassembly.

Inspect the commutator bars for discoloration. Bars discolored in pairs indicate grounded armature coils.

NOTE

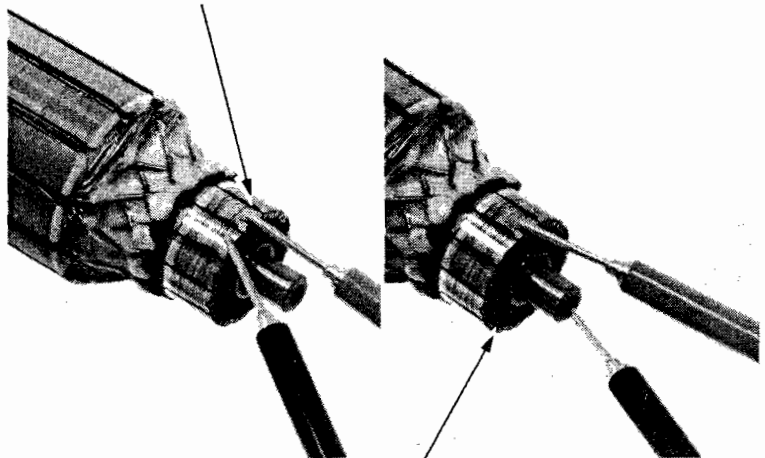
Do not use emery or sand paper on the commutator.



Check for continuity between pairs of commutator bars; there should be continuity.

Also, check for continuity between individual commutator bars and armature shaft; there should be no continuity.

CONTINUITY BETWEEN
COMMUTATOR BAR PAIRS: NORMAL



NO CONTINUITY BETWEEN
COMMUTATOR BARS AND ARMATURE SHAFT: NORMAL