BRUSH INSPECTION

Remove the starter motor case screws.

Inspect the brushes and measure the brush length.

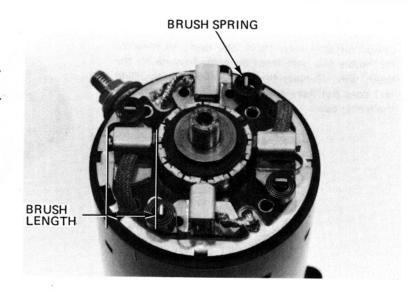
Measure brush spring tension with a spring scale. SERVICE LIMITS:

Brush length:

6.5 mm (0.26 in)

Brush spring tension:

545 g (19.2 oz)



COMMUTATOR INSPECTION

Remove the starter motor case.

NOTE:

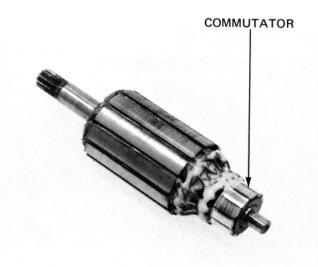
Record the location and number of thrust washers.

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. Also, make a resistance check between individual commutator bars and the armature shaft. There should be no continuity.



CONTINUITY BETWEEN
COMMUTATOR BAR PAIRS: NORMAL



NO CONTINUITY BETWEEN
COMMUTATOR BARS AND ARMATURE SHAFT: NORMAL