

STARTER SYSTEM

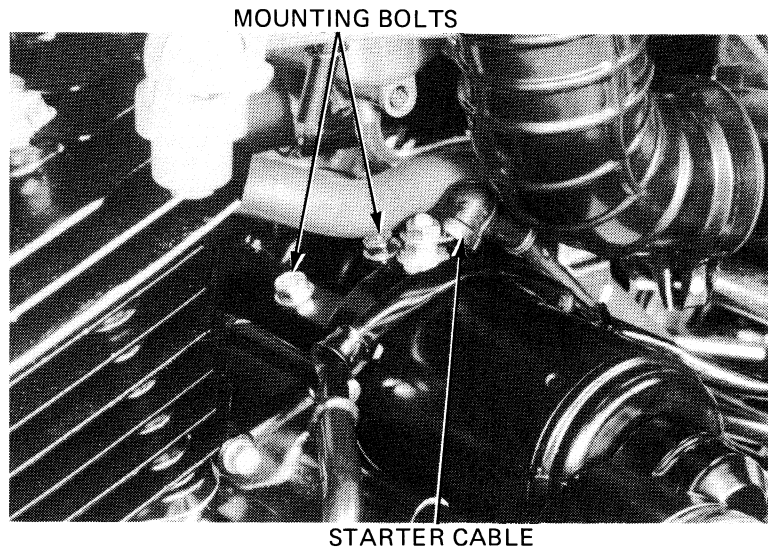
STARTER MOTOR

REMOVAL

WARNING

With the ignition switch OFF, remove the negative cable at the battery before servicing the starter motor.

Disconnect the starter cable.
Remove the starter motor mounting bolts and pull the motor out of the crankcase.



BRUSH INSPECTION

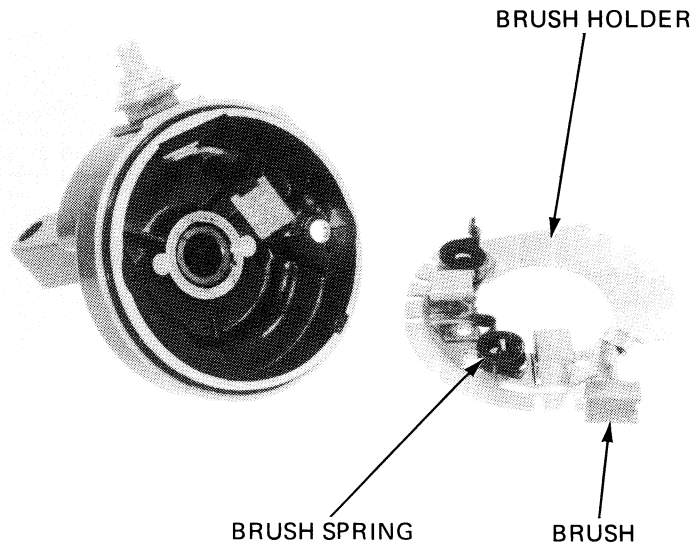
Remove the two starter motor case screws, front and rear cover.
Remove the armature and the brush holder.

Inspect the brushes and measure the brush length.

SERVICE LIMIT: Mituba 5.5 mm (0.22 in)
ND 8.5 mm (0.33 in)

Measure brush spring tension with a spring scale.

SERVICE LIMIT: 740 g (26 oz)



COMMUTATOR INSPECTION

NOTE

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

Inspect the commutator bars for discoloration. Bars discolored in pairs indicate grounded armature coils, in which case the starter motor must be replaced.

NOTE

Do not use emery or sand paper on the commutator.

