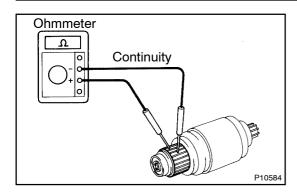
ST06H-01

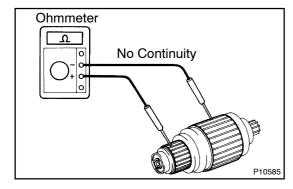


INSPECTION

1. INSPECT ARMATURE COIL

(a) Check the commutator for open circuit.
Using an ohmmeter, check that there is continuity between the segments of the commutator.

If there is no continuity between any segment, replace the armature.



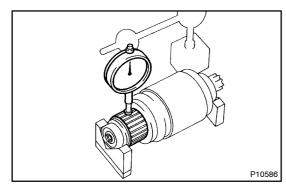
(b) Check the commutator for ground.Using an ohmmeter, check that there is no continuity be-

If there is no continuity, replace the armature.

2. INSPECT COMMUTATOR

(a) Check the commutator for the dirty and burnt surfaces. If the surface is dirty or burnt, correct it with sandpaper (No.400) or on a table.

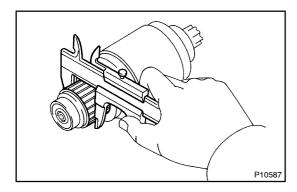
tween the commutator and armature coil core.



- (b) Check for the commutator circle runout.
 - (1) Place the commutator on V-blocks.
 - (2) Using a dial gauge, measure the circle runout.

Maximum circle runout: 0.05 mm (0.0020 in.)

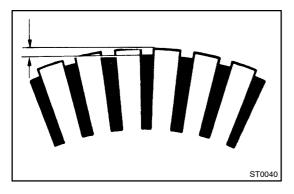
If the circle runout is greater than maximum, correct it on a lathe.



(c) Using a vernier caliper, measure the commutator diameter

Standard diameter: 30.0 mm (1.181 in.) Minimum diameter: 29.0 mm (1.412 in.)

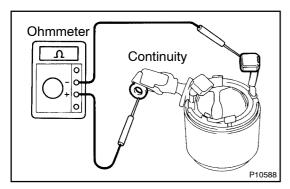
If the diameter is less than minimum, replace the armature.



(d) Check that the undercut depth is clean and free of foreign materials. Smooth out the edge.

Standard undercut depth: 0.6 mm (0.024 in.) Minimum undercut depth: 0.2 mm (0.008 in.)

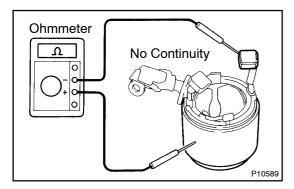
If the undercut depth is less than minimum, correct it with a hacksaw blade.



3. INSPECT FIELD COIL

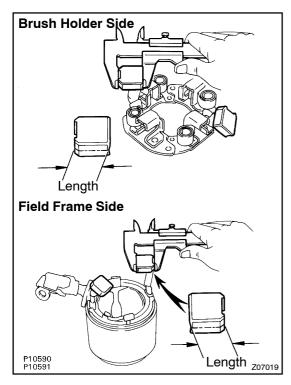
(a) Check the field coil for open circuit.
 Using an ohmmeter, check that there is continuity between the lead wire and field coil brush lead.

If there is no continuity, replace the field frame.



(b) Check the field coil for ground.
Using an ohmmeter, check that there is no continuity between the field coil end and field frame.

If there is continuity, replace the field frame.

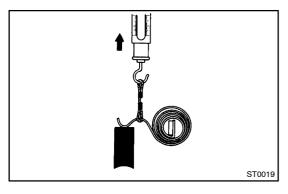


4. INSPECT BRUSHES

Using a vernier caliper, measure the brush length.

Standard length: 15.5 mm (0.610 in.) Minimum length: 10.0 mm (0.394 in.)

If the length is less than minimum, replace the brush holder and field frame.



5. INSPECT BRUSH SPRINGS

Check the brush spring load. Take the pull scale reading the instant the brush spring separates from the brush.

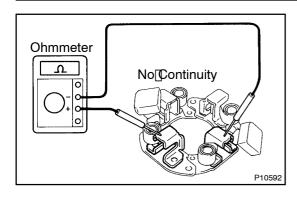
Standard spring installed load:

17.6 - 23.5 N (1.8 - 2.4 kgf, 3.9 - 5.3 lbf)

Minimum spring installed load:

11.8 N (1.2 kgf, 2.6 lbf)

If the installed load is less than minimum, replace the brush springs.



6. INSPECT BRUSH HOLDER

Check[the[brush[holder[]nsulator.]Using[an[bhmmeter,[check that[there[]s[hocbontinuity[between[the[bositive[]+)[and[hegative (-)[brush[holders.]

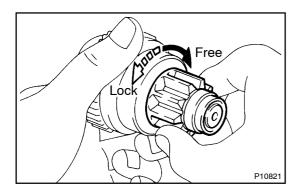
If there is continuity, repair or replace the brush tholder.

7. INSPECT CLUTCH AND GEAR

(a) Check[the[gear[teeth]on[the[pinion[gear,[idle[gear]and[the clutch[assembly[for]wear]or[damage.

If damaged, replace the gear or clutch assembly.

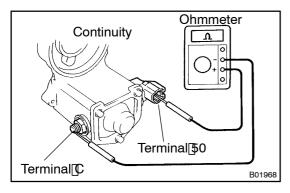
If damaged, also check the drive plate ring gear for wear or damage.



(b) Check the clutch pinion gear.

Rotate[thepinion]gear[counterclockwise, and check[that]] turns freely. Try lo lotate the pinion gear clockwise and check that] tocks.

If necessary, replace the clutch assembly.

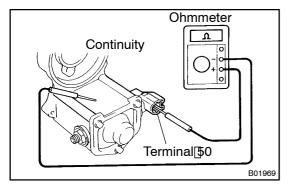


8. INSPECT MAGNETIC SWITCH

(a) Check [he pull-in coil for pen circuit.

Using an phmmeter, check that there scontinuity between erminals 50 and c.

If there is the continuity, the ck and replace the magnetic switch.



(b) Check he hold in coil for pen circuit.

Using an phmmeter, check hat here scontinuity between erminal 0 and he witch body.

If there is tho continuity, replace the magnetic switch.

9. INSPECT BEARING

Turn the bearing by hand and while apply inward force. If resistance is felt or bearing sticks, replace the bearing. (See page T-10)