STARTING SYSTEM (1MZ–FE)

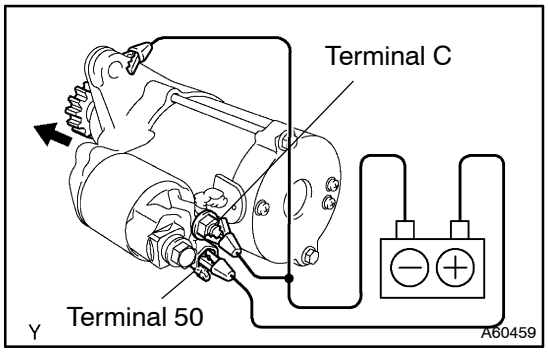
1908Z–01

INSPECTION

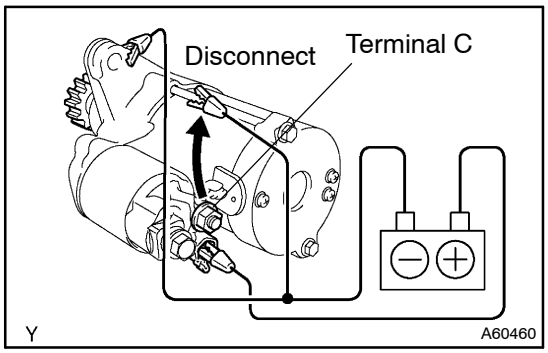
1. STARTER ASSY

NOTICE:
These tests must be done within 3 to 5 seconds to avoid burning out the coil.

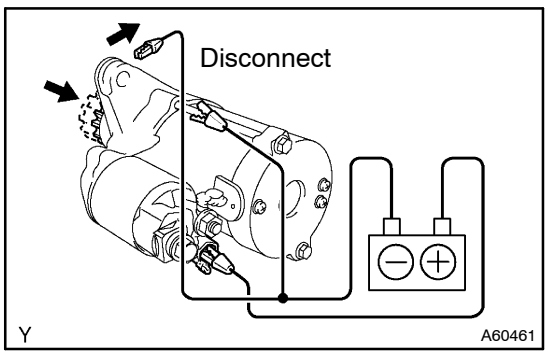
(a) Disconnect the field coil lead wire from terminal C.



(b) Connect the battery to the magnetic switch as shown. Check that the clutch pinion gear moves outward.

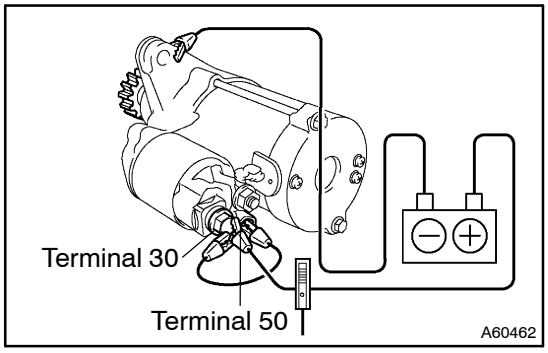


(c) With battery connected as above with the clutch pinion gear out, disconnect the negative (–) lead from terminal C. Check that the pinion gear remains out.

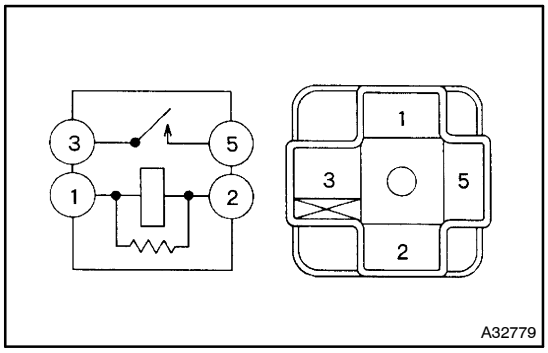


(d) Disconnect the negative (–) lead from the switch body. Check that the clutch pinion gear returns inward.

(e) Connect the lead wire to the terminal C with the nut.
Torque: 5.9 N·m (60 kgf·cm, 52 in.·lbf)



(f) Connect the battery and ammeter to the starter as shown.
(g) Check that the starter rotates smoothly and steadily with the pinion gear moving out. Check that the ammeter shows the specified current.
Specified current: 90 A or less at 11.5 V



2. STARTER RELAY ASSY

(a) Inspect the relay continuity.
  (1) Using an ohmmeter, check that there is continuity between terminals 1 and 2.

If there is no continuity, replace the relay.
  (2) Check that there is no continuity between terminals 3 and 5.

If there is continuity, replace the relay.
(b) Inspect the relay operation.
  (1) Apply battery positive voltage across terminals 1 and 2.
  (2) Using an ohmmeter, check that there is continuity between terminals 3 and 5.

If there is no continuity, replace the relay.