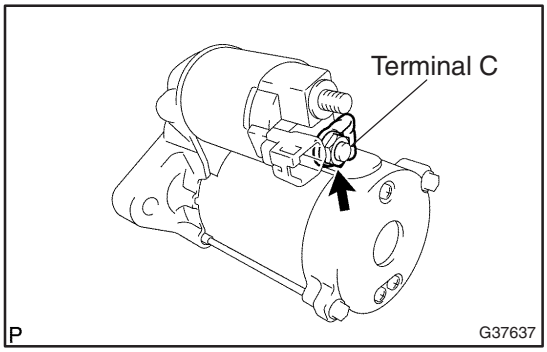
STARTING SYSTEM (2TR–FE)

INSPECTION

190MV–02



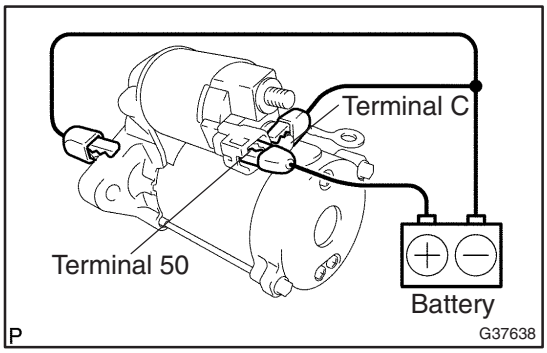
1. INSPECT STARTER ASSY

NOTICE:

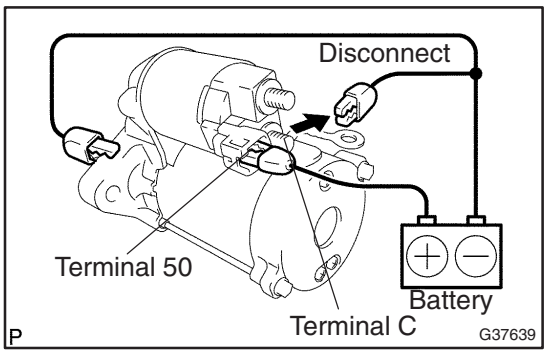
These tests must be done within 3 to 5 seconds to avoid burning out the coil.

(a) Perform pull–in test.

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

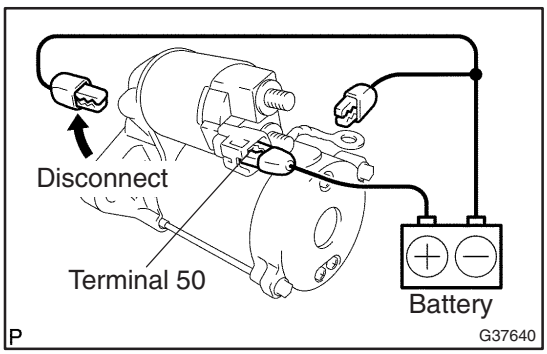


(2) Connect the battery to the magnetic switch as shown in the illustration. Check that the clutch pinion gear is extended.



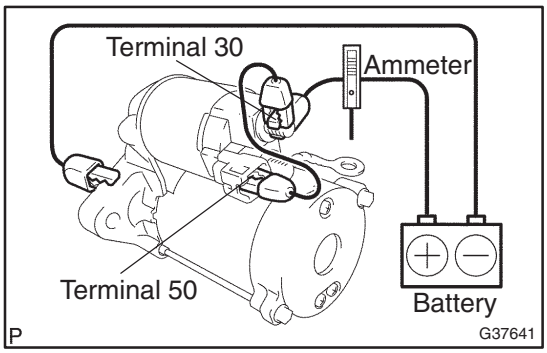
(b) Perform holding test.

(1) Disconnect the negative (–) lead from terminal C with the above condition (a) is being maintained. Check that the pinion gear remains extended.

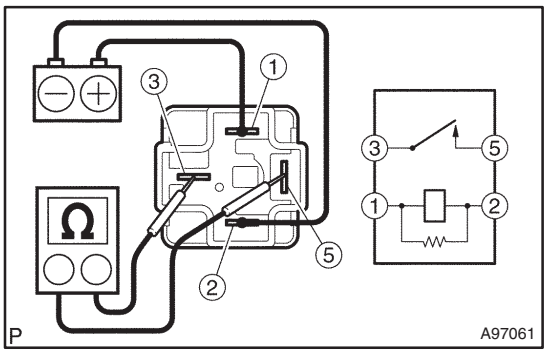


(c) Inspect clutch pinion gear return.

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



(d) Perform the operation test without load.
(1) Connect the field coil lead wire to terminal C.
Torque: 10 N·m (102 kgf·cm, 7.4 in·lbf)
(2) Clamp the starter in a vise.
(3) Connect the battery and ammeter to the starter as shown in the illustration.
(4) Check that the ammeter indicates the specified current.
Specified current: 90 A or less at 11.5 V



2. INSPECT STARTER RELAY ASSY

(a) Check the starter relay resistance.
(1) Using an ohmmeter, measure the resistance between the terminals.
Standard:

Tester Connection	Specified Condition
3 – 5	10 kΩ or higher
3 – 5	Below 1 Ω (Apply battery voltage to terminals 1 and 2)

If the result is not as specified, replace the starter relay.