ST0BP–04

TEST

NOTICE:

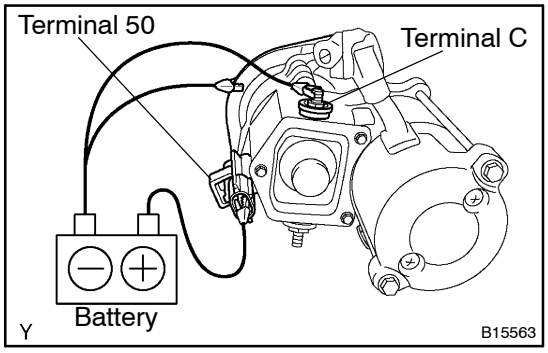
These tests must be done within 3 to 5 seconds to prevent burning out the coil.

1. PERFORM PULL–IN TEST

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

(b) Connect the battery to the magnetic switch as shown in the illustration.

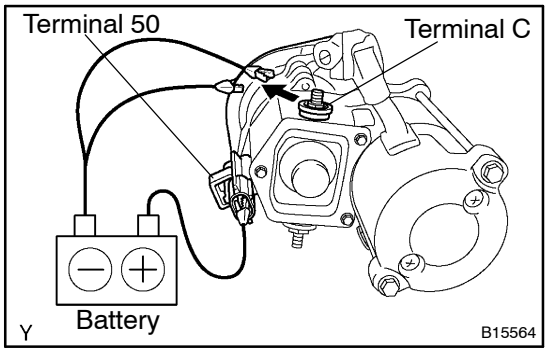
(c) Check that the pinion gear moves outside.



2. PREFORM HOLDING TEST

(a) Disconnect the negative lead from terminal C.

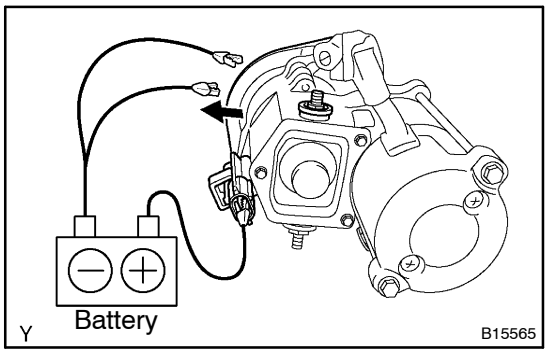
(b) Check that the magnetic clutch keeps the pinion gear moving outside.



(c) Disconnect the negative lead from the switch body.

(d) Check that the pinion gear returns.

(e) Reconnect the lead wire to the terminal C.



3. PREFORM OPERATION TEST WITHOUT LOAD

NOTICE:

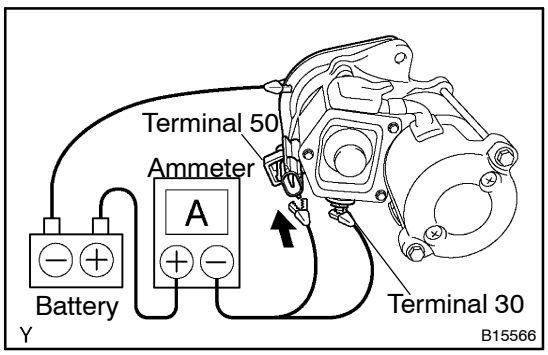
These tests must be performed within 5 seconds to prevent burning out the starter motor.

(a) Connect the battery and ammeter to the starter as shown in the illustration.

(b) Check that the pinion gear rotates smoothly.

(c) Measure the current when the pinion gear rotates.

Specified current (at 11.5 V):



Starter type	Current
2.0 kW	(11.5V) 100 A or less

If the current is not as specified, check the starter assembly.