

# STARTING SYSTEM (1AZ-FE)

## INSPECTION

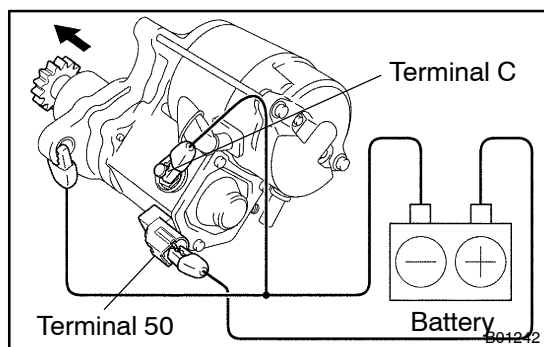
19063-01

### 1. STARTER ASSY

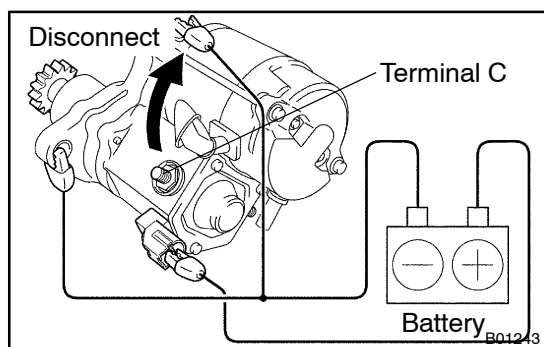
#### NOTICE:

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

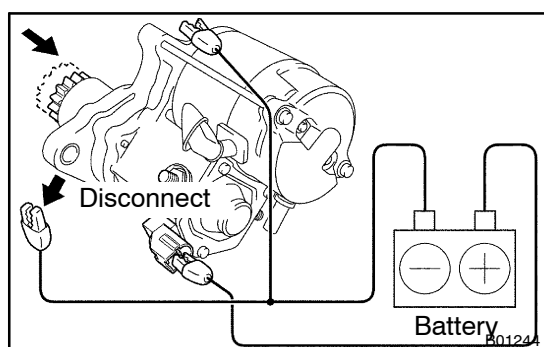
- (a) Disconnect the field coil lead wire from terminal C.
- (b) Connect the battery to the magnetic switch as shown. Check that the clutch pinion gear moves outward.



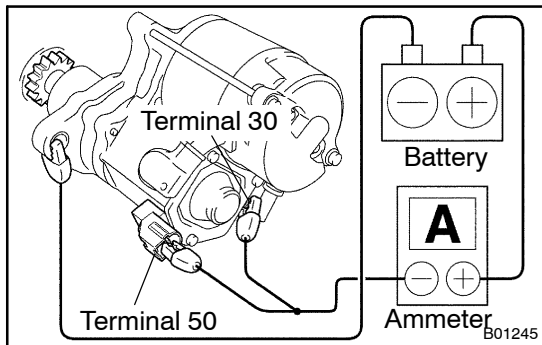
- (c) With battery connected as above with the clutch pinion gear out, disconnect the negative (-) lead from terminal C. Check that the pinion gear remains out.



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

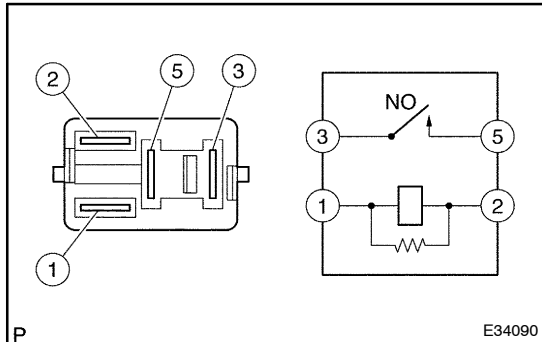


- (e) Connect the lead wire to the terminal C with the nut.  
**Torque: 5.9 N·m (60 kgf·cm, 52 in·lbf)**



- (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.