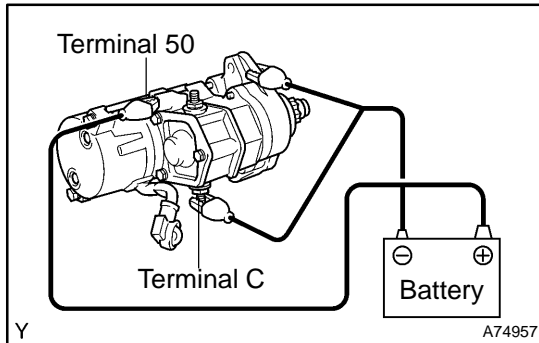


# STARTING SYSTEM (2UZ-FE)

## INSPECTION

190F4-01

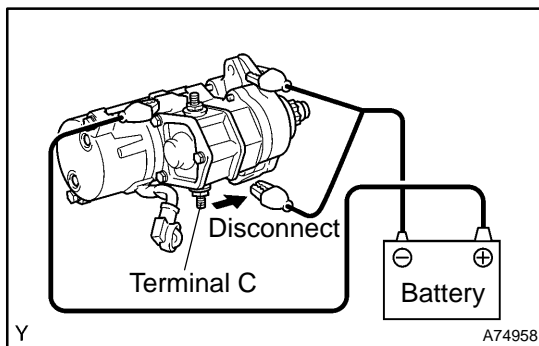


### 1. STARTER ASSY

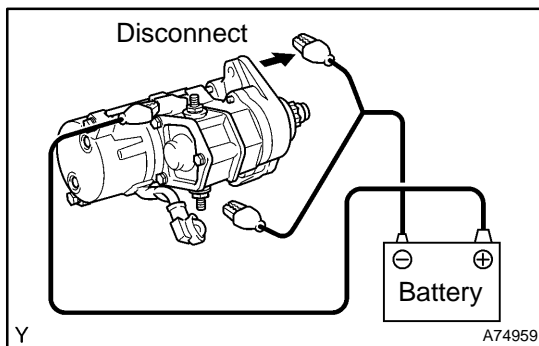
#### NOTICE:

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

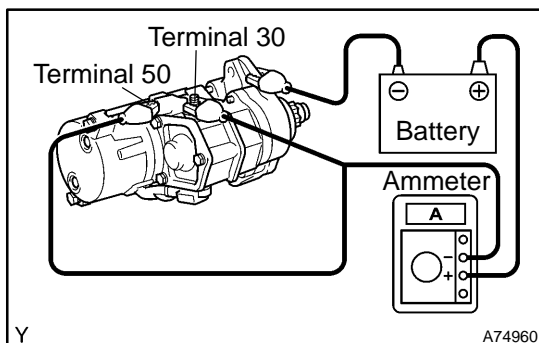
- (a) Do pull-in test.
- (1) Disconnect the field coil lead wire from terminal C.
  - (2) Connect the battery to the magnetic switch as shown. Check that the clutch pinion gear moves outward.



- (b) Do holding test.
- (1) 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.



- (c) Inspect clutch pinion gear return.
- (1) Disconnect the negative (-) lead from the switch body. Check that the clutch pinion gear returns inward.

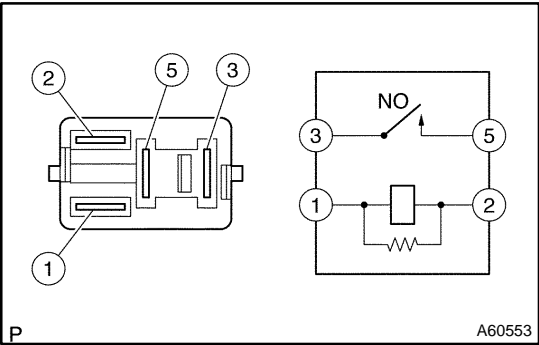


- (d) Perform the operation test without road.
- (1) Connect the field coil lead wire to terminal C.
  - (2) Grip the starter with a vise.
  - (3) Connect the battery and ammeter to the starter as shown.
  - (4) Check that the ammeter reads the specified current.

#### Specified current:

**1.4kw 90 A or less at 11.5 V**

**2.0kw 100 A or less at 11.5 V**



2. STARTER RELAY ASSY

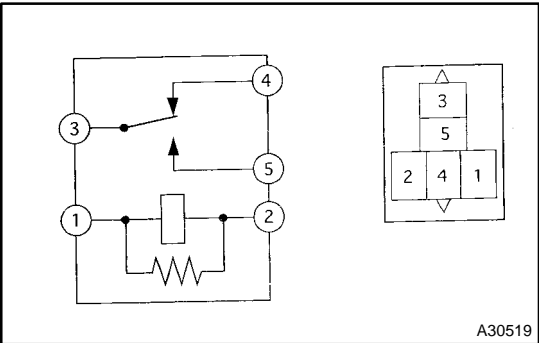
- (a) Continuity inspection.
- (1) Using an ohmmeter, check that there is continuity between each terminal.

**Specified condition:**

Between terminals	Specified condition
1 - 2	Continuity
3 - 5	No continuity

- (2) Using an ohmmeter, check that there is continuity between terminals 3 and 5 when the between voltage is applied across terminals 1 and 2.

**Specified condition: Continuity**



3. ACC RELAY

- (a) Continuity inspection.
- (1) Using an ohmmeter, check that there is continuity between each terminal.

**Specified condition:**

Between terminals	Specified condition
1 - 2	Continuity
3 - 4	No continuity
3 - 5	No continuity

- (2) Using an ohmmeter, check that there is continuity between terminals 3 and 5 when the between voltage is applied across terminals 1 and 2.

**Specified condition: Continuity**