

TO INDEX

STARTING SYSTEM
(EJ-DE)

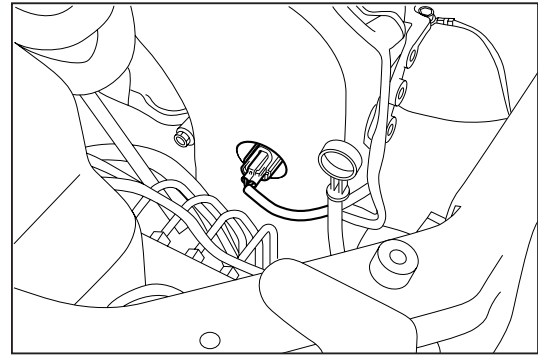
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MST00001-00000

IN-VEHICLE INSPECTION

STARTER

1. Place the shift lever to the neutral position. Apply the parking brake lever.
2. Disconnect the connector of the cam position sensor so that the engine will not start.
3. Set the ignition switch to the ST position. Check to see if the engine cranks.
4. If the engine will not crank, check the battery for damage or charging state. Also, check the harness for continuity.
5. On the A/T vehicles, check the starter relay and neutral start switch.
6. If the engine still will not crank even after the checks above have been performed, remove the starter and perform the unit check.



WARNING:

- When removing the starter, firstly disconnect the negative terminal of the battery. Then, disconnect the positive terminals (+B, ST) at the starter side. Since the battery voltage is always applied to the starter +B terminal, failure to observe this removing sequence may lead to battery short, which is extremely dangerous.

CAUTION:

- If the starter terminals or connections between the battery terminals and the wires are loose, the connections may generate heat. Thus, loose terminals or connections are potentially-hazardous. Be certain to securely tighten the terminals or wires.
- When installing the starter, install the starter in the clutch housing positively and be sure to tighten the attaching bolts to the specified torque. Improper installation can cause premature wear of the teeth of the pinion gear or ring gear and also can cause breakage of the clutch housing.

[Reference]

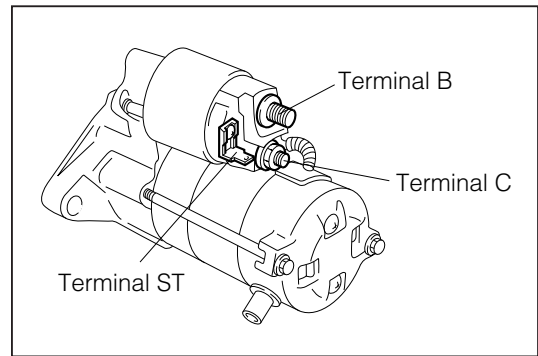
Starter Installing Torque: $39.0 \pm 7.8 \text{ N}\cdot\text{m}$

NOTE:

- With the cam position sensor connector disconnected, crank the engine. Then, the diagnosis code No. 13 will be detected.

After completion of the check, erase this code.

(For cancelling of diagnosis code refer to the EF section.)



STARTER RELAY

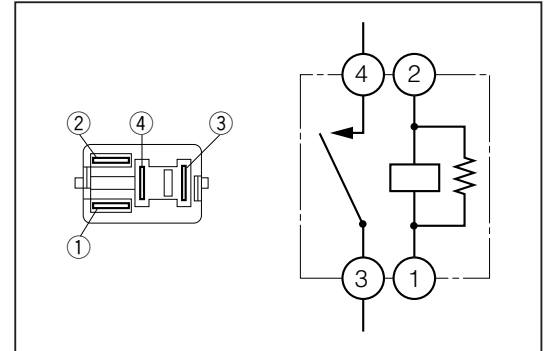
1. Remove the lid of the relay box inside the engine compartment and pull out the starter relay.

MST00004-00000

2. Inspection of relay continuity
 - (1) Check that there is continuity between the terminals ① and ②.
Specified Value: 109 - 113 Ω
 - (2) Check that there is continuity between the terminals ③ and ④ when a voltage of 12 V is applied between the terminals ① and ②.

NOTE:

- If the trouble has not been solved by repairing the relay, check wire harness.



MST00005-00006

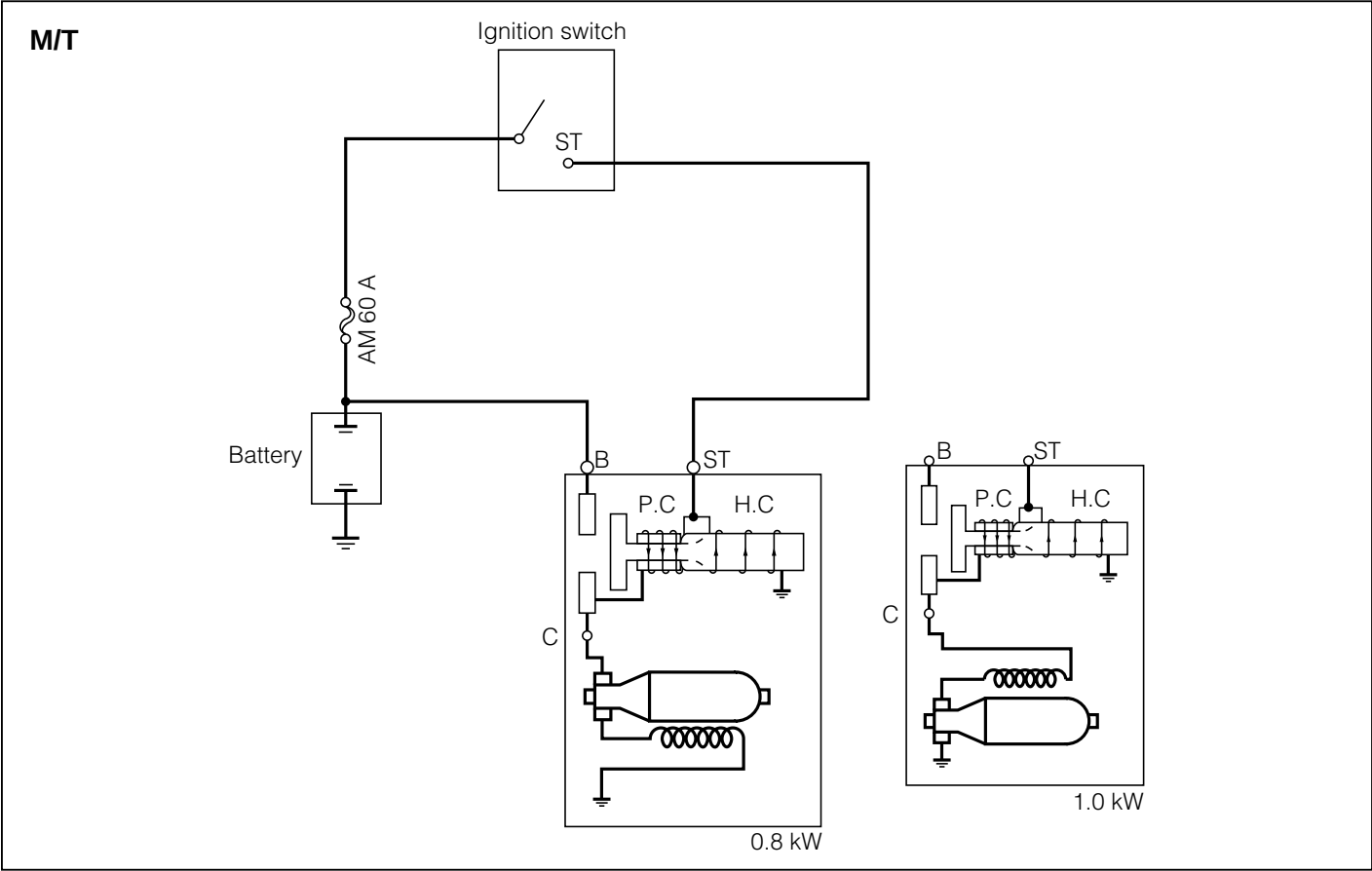
3. Install the starter relay to the relay box.

NEUTRAL START SWITCH

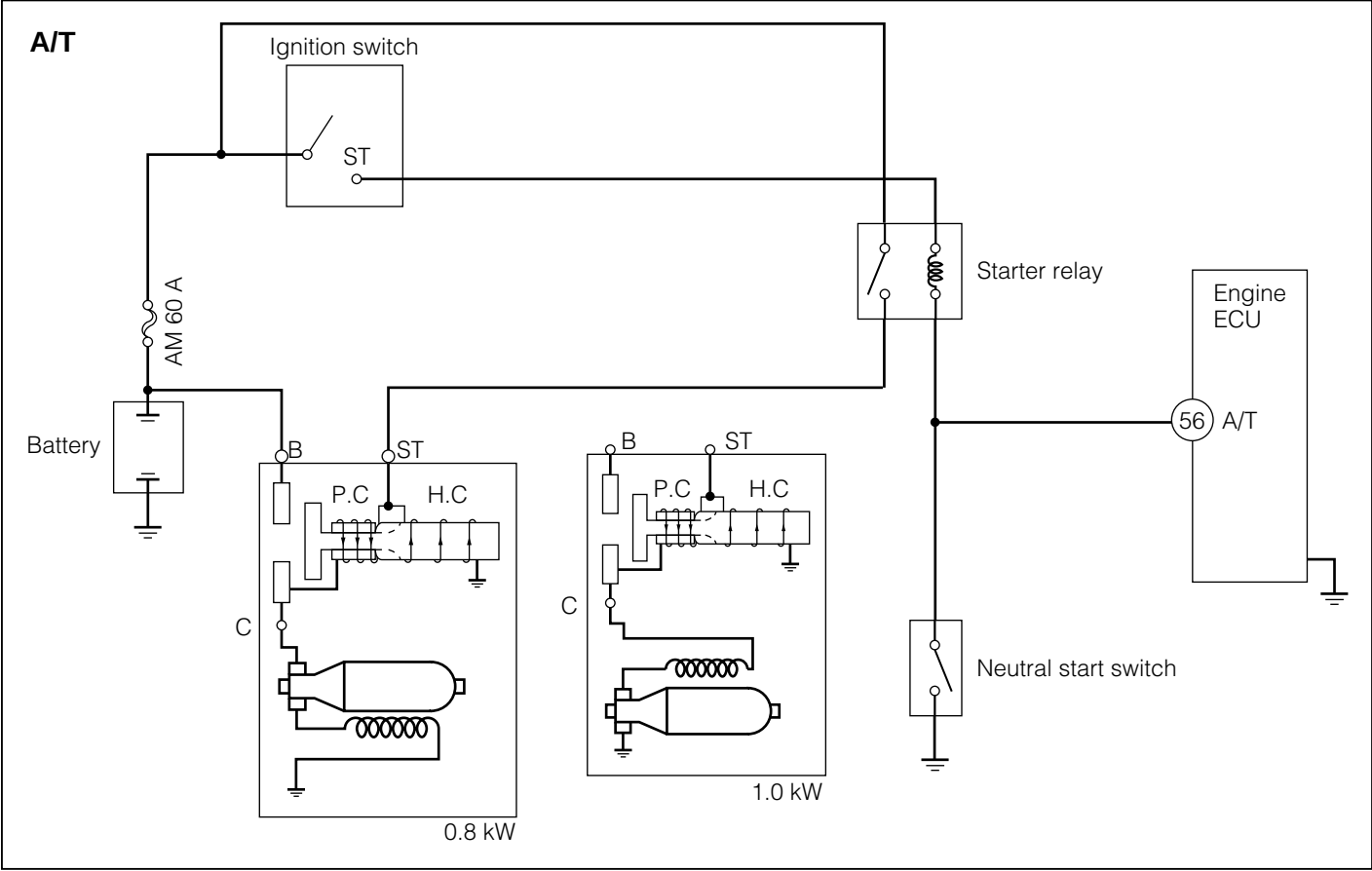
As for the neutral start switch check, refer to the Section EF.

MST00007-00000

STARTING SYSTEM CIRCUIT



MST00008-00007



MST00000-00008