CHARGING SYSTEM

190MC–01

ON–VEHICLE INSPECTION

CAUTION:

- **Check that the battery cables are connected to the correct terminals.**
- **Disconnect the battery cables when quicly charging the battery is charged quickly.**
- **Do not perform inspections using a tester with high voltage insulation resistance.**
- **Never disconnect the battery while the engine is running.**
- **Do not check whether or not the generator generates voltage with terminal F connected to the other terminal.**
- **Check that the +B terminal wire is tightened onto +B terminal of the generator and the fuse box.**

1. CHECK BATTERY ELECTROLYTE LEVEL

(a) Check the electrolyte quantity of each cell.

Maintenance–free battery:

If it is under the low level, replace the battery.

Except Maintenance–free battery:

If it is under the low level, add distilled water.

2. Except Maintenance–free battery:
CHECK BATTERY SPECIFIC GRAVITY

(a) Check the specific gravity of each cell.

Standard specific gravity: 1.25 – 1.29 at 20˚C (68˚F)

If the specific gravity is less than the specification, charge the battery.

3. CHECK GENERATOR WIRING AND ABNORMAL NOISES

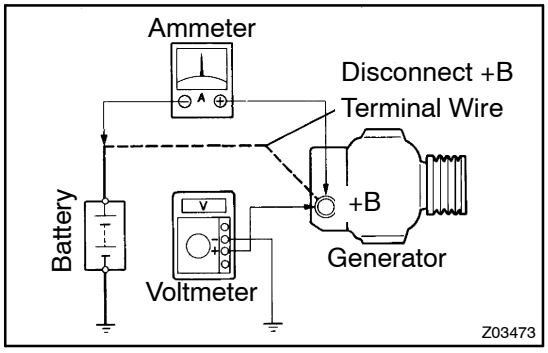
(a) Check that the wiring is in normal condition.

(b) Check that there is no abnormal noise in the generator while the engine is running.

4. CHECK CHARGE WARNING LIGHT CIRCUIT

(a) Check that the charge warning light is ON when the ignition switch is turned ON.

(b) Check that the light goes off when the engine is started.



5. INSPECT CHARGING CIRCUIT WITHOUT LOAD

(a) Connect a voltmeter and ammeter to the charging circuit, as shown in the illustration.

(b) Check the charging circuit.

(1) Check the amperage and voltage when racing the engine from idling to 2,000 rpm.

Standard:

Amperage	10 A or less
Voltage	26.0 – 29.6 V

If the value is not specified, check the generator.

6. INSPECT CHARGING CIRCUIT WITH LOAD

(a) With the engine running at 2,000 rpm, turn on the high beam headlights and turn the heater blower switch at HI to the HI position.

(b) Check the reading on the ammeter.

Standard amperage: 30 A or more

If the ammeter reading is less than the standard amperage, inspect the generator.

HINT:

If the battery is fully charged, the indication will sometimes become less than the standard amperage.