

BATTERY INSPECTION

B3E011718520W03

Warning

- Since battery acid is toxic, be careful when handling the battery.
- Since battery acid is highly corrosive, be careful not to allow it to contact clothing or the vehicle.
- In case battery acid contacts skin, eyes, or clothing, flush it immediately with running water. Especially if the acid gets in the eyes, flush with water for more than 15 min and get prompt medical attention.

Electrolyte gravity

1. Measure the electrolyte gravity using a hydrometer.

- If it is less than the specification, recharge the battery. (See [BATTERY RECHARGING](#).)

Standard electrolyte gravity
1.22-1.29 [20 °C {68 °F}]

Battery voltage

1. Inspect the battery as follows:

Step	Inspection		Action
1	Measure the battery positive voltage.	12.4 V or more	Go to Step 3.
		Less than 12.4 V	Go to the next step.
2	Quick charge for 30 min and recheck voltage.	12.4 V or more	Go to the next step.
		Less than 12.4 V	Replace the battery.
3	Using the battery load tester, apply load current (see load test chart) and record battery voltage after 15 s. Is voltage more than specification?	Yes	Normal
		No	Replace the battery.

Load test chart

Battery	Current load (A)
50D20L	150
75D26L	195
80D26L	195

Standard specification

Battery temp. (°C {°F})	Minimum voltage (V)
4 {39}	9.3
10 {50}	9.4
16 {61}	9.5

21 {70}	9.6
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Back-up current

1. Verify that the ignition switch is off and that the key has been removed.
2. Disconnect the negative battery cable.
3. Measure the back-up current between the negative battery terminal and the negative battery cable.
 - If not within the specification, measure the back-up current while removing the fuses one by one from the inside of the main fuse block and the inside of the fuse block.

Caution

- Operating electrical loads while the back-up current is being measured can damage the tester.

Maximum back-up current
20 mA

4. Inspect and repair wiring harnesses and connectors of the fuse where the current decreased.