

BASIC INSPECTION

When a malfunction is not confirmed in the DTC check, troubleshooting should be carried out in all the circuits considered possible causes of the problem. In many cases, by carrying out the basic engine check shown in the following flowchart, the location of the problem can be found quickly and efficiently. Therefore, using this check is essential in engine troubleshooting.

1 CHECK BATTERY VOLTAGE

NOTICE:

Carry out this check with the engine stopped and ignition switch OFF.

	OK	NG
Voltage	11V or more	Less than 11V

NG

CHARGE OR REPLACE BATTERY

OK

2 CHECK IF ENGINE WILL CRANK

NG

PROCEED TO PROBLEM SYMPTOMS TABLE ON [PAGE 05-443](#)

OK

3 CHECK AIR FILTER

(a) Visually check if the air filter is not contaminated with dirt or oil.

NG

CLEAN OR REPLACE

OK

4 CHECK FUEL QUALITY

(a) Check that only diesel fuel is used.

(b) Check that the fuel does not contain any impurities.

NG

REPLACE FUEL

OK

5 CHECK ENGINE OIL (See page 17-1 of Pub. No. RM864E AVENSIS VERSO/ PICNIC REPAIR MANUAL)

NG

ADD OR REPLACE

OK

6 CHECK ENGINE COOLANT
(See page 16-6 of Pub. No. RM864E AVENSIS/VERSO/PICNIC REPAIR MANUAL)

NG

REPLACE ENGINE COOLANT
(See page 16-6 of Pub. No. RM864E AVENSIS
VERSO/PICNIC REPAIR MANUAL)

OK

7 CHECK IDLING SPEED AND MAXIMUM SPEED
(See page 14-72 of Pub. No. RM864E AVENSIS/VERSO/PICNIC REPAIR MANUAL)

NG

REPLACE INJECTION OR SUPPLY PUMP ASSY
(See page 11-31 of Pub. No. RM864E AVENSIS
VERSO/PICNIC REPAIR MANUAL)

OK

8 CHECK DIAGNOSTIC CIRCUIT

NG

REPAIR OR REPLACE

OK

9 CHECK VACUUM PUMP

NG

REPAIR OR REPLACE VACUUM PUMP

OK

PROCEED TO PROBLEM SYMPTOMS TABLE (See page 05-443)