Changes in inspection method for mass air flow meter (MAF)

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Description

New inspection method was recommended for DENSO made mass air flow meters. For HITACHI made mass air flow meters use the procedures provided previously.

Repair procedures

Air flow meter inspection

Use the inspection procedures below.

Only replace the MAF meter when both the LONG FT#1 value and MAF value in the DATA LIST (with the engine stopped) are not within the normal operating range.

1. Carry out road test.

- Connect the scanner to the DLC.
- Turn ignition switch ON.
- Switch scanner ON.
- Erase trouble codes.

- Start the engine and warm it up with all accessory switches OFF until the engine coolant temperature is 75°C or more.

- Drive the vehicle at 50 km/h or more for 3 minutes or more.
- Allow to idle for 2 minutes or more.
- Perform two last steps at least 2 times more.

2. Read value using scanner (LONG FT#1 and LONG FT#2) Specified value: -15% - +15%

3. Read MAF sensor value using scanner.

Notes:

- Turn off the engine.

- Perform the inspection with the vehicle indoors and on a level surface.

- Perform the inspection of the MAF meter while it is installed to the air cleaner case (installed to the vehicle).

- During the test, do not use the exhaust air duct to perform suction on the exhaust pipe.
- Turn ignition switch ACC.
- Turn ignition switch ON (do not start the engine).
- Switch scanner ON.
- Read MAF sensor value using scanner.

Specified value: .

Model	Name	Applicable years	Market	Note	Flow (g/s)
4Runner	-	1999.08-	EUR	5VZ- FE	0,41
4Runner	GRN21#	2002.11-	USA	1GR- FE	0,72
4Runner	-	2002.11-	EUR, GEN	1GR- FE	0,70