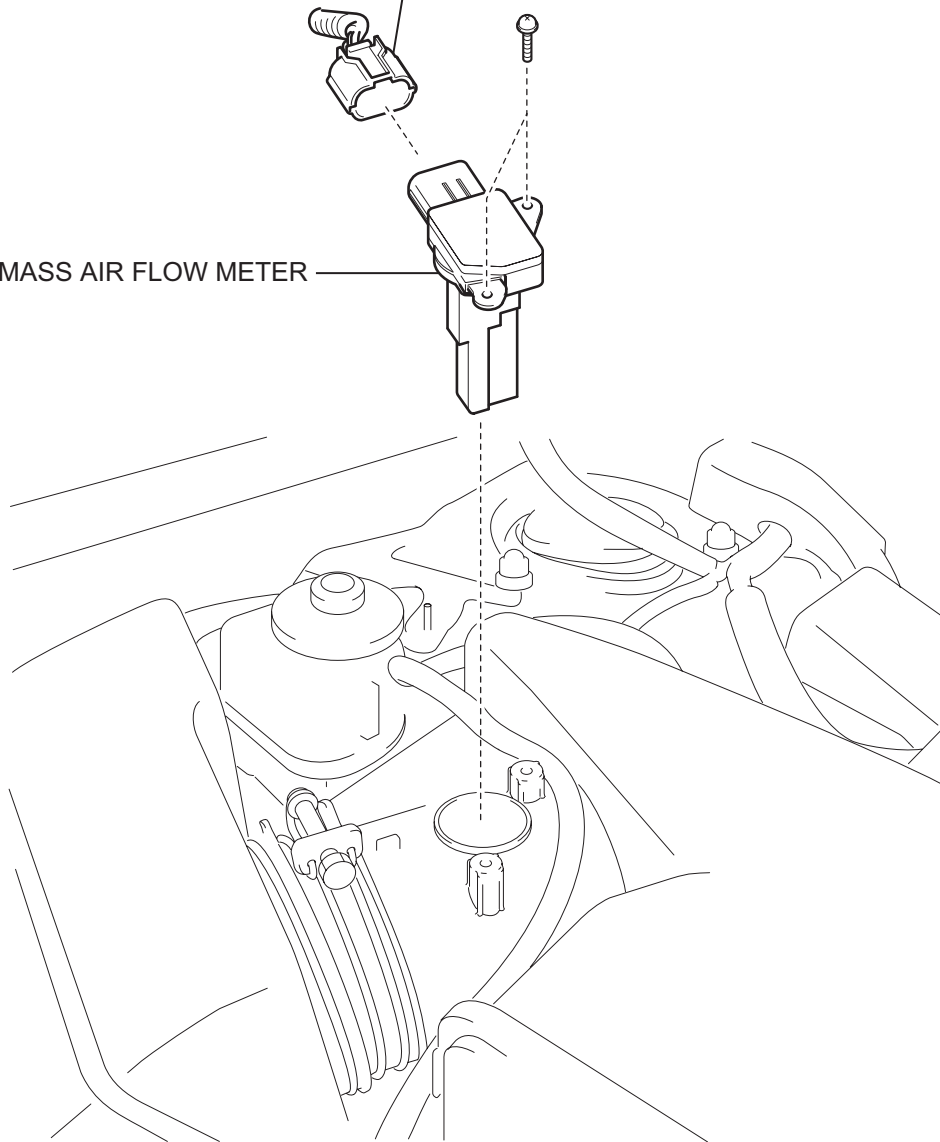


MASS AIR FLOW METER

COMPONENTS

MASS AIR FLOW METER CONNECTOR

MASS AIR FLOW METER

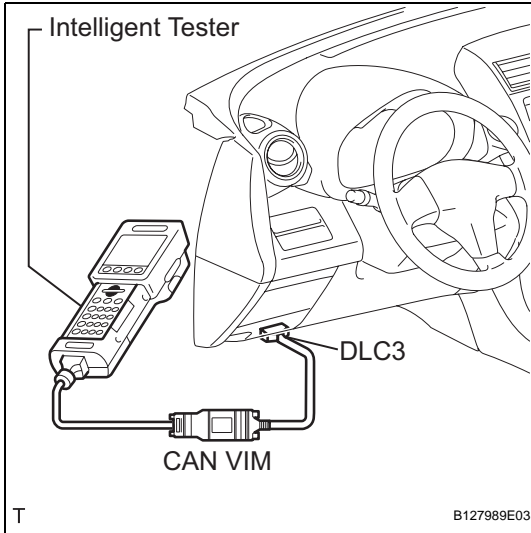


ES

ON-VEHICLE INSPECTION

NOTICE:

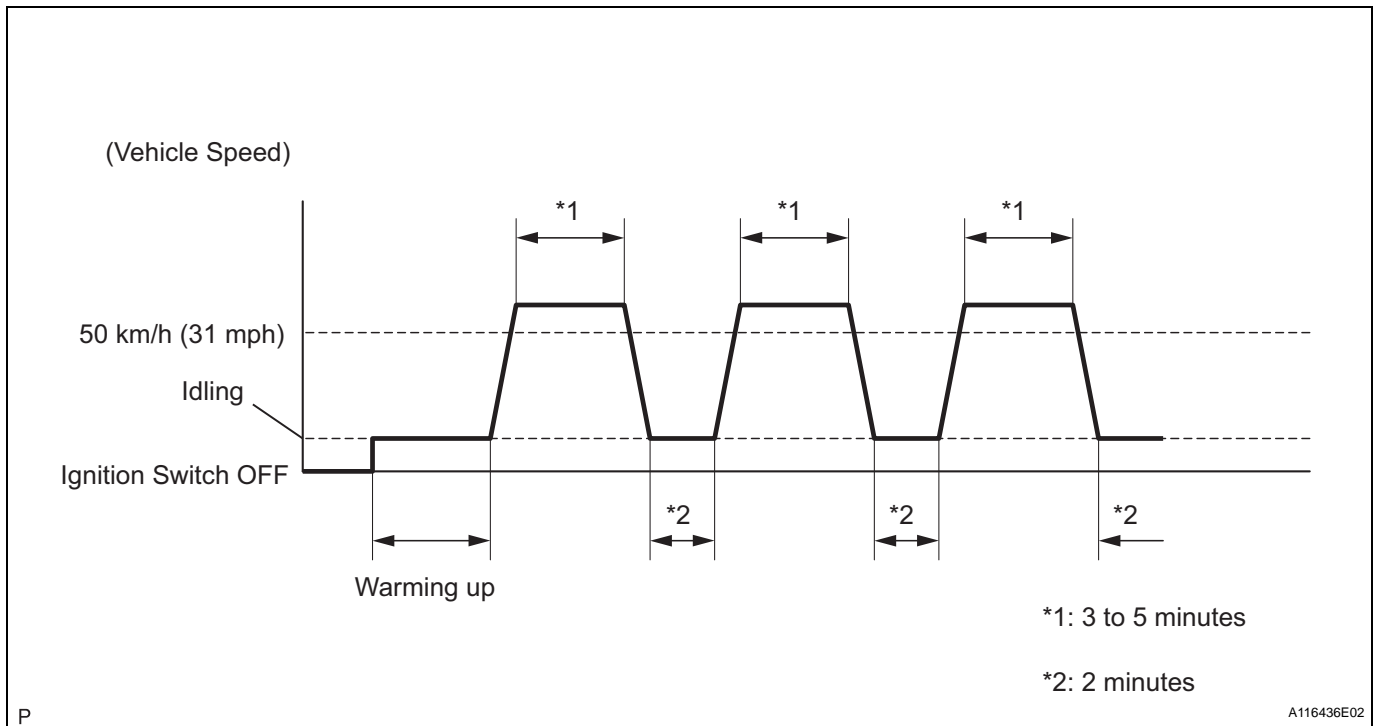
- Perform the MAF meter inspection according to the procedures below.
- Only replace the MAF meter when both the LONG FT#1 value and MAF value in the DATA LIST (with the engine stopped) are not within the normal operating range.



1. INSPECT MASS AIR FLOW METER

- Perform confirmation driving pattern.
 - Connect the intelligent tester to the DLC3.
 - Turn the ignition switch ON.
 - Turn the tester ON.
 - Clear the DTCs (see page ES-39).
 - Start the engine and warm it up with all accessory switches OFF until the engine coolant temperature is 75°C (167°F) or more.
 - Drive the vehicle at 50 km/h (31 mph) or more for 3 to 5 minutes*1.
 - Allow the engine to idle for 2 minutes*2.
 - Perform steps *1 and *2 at least 3 times.

ES



- Read the value using the intelligent tester (LONG FT#1).
 - Select the following menu items: DIAGNOSIS / ENHANCED OBD II / DATA LIST / PRIMARY / LONG FT#1.
 - Read the values displayed on the tester.
Standard value:
Within -15 to +15%

If the result is not within the specified range, perform the inspection below.

- (c) Read the value using the intelligent tester (MAF).

NOTICE:

- **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.**

- (1) Turn the ignition switch to ACC.
- (2) Turn the ignition switch ON (do not run the engine).
- (3) Turn the tester ON.
- (4) Select the following menu items: DIAGNOSIS / ENHANCED OBD II / DATA LIST / PRIMARY / MAF.
- (5) Wait 30 seconds, and read the values on the intelligent tester.

Standard condition:

Less than 0.55 g/sec.

- If the result is not as specified, replace the MAF meter.
- If the result is within the specified range, inspect the cause of the extremely rich or lean air-fuel ratio (see page [ES-176](#)).