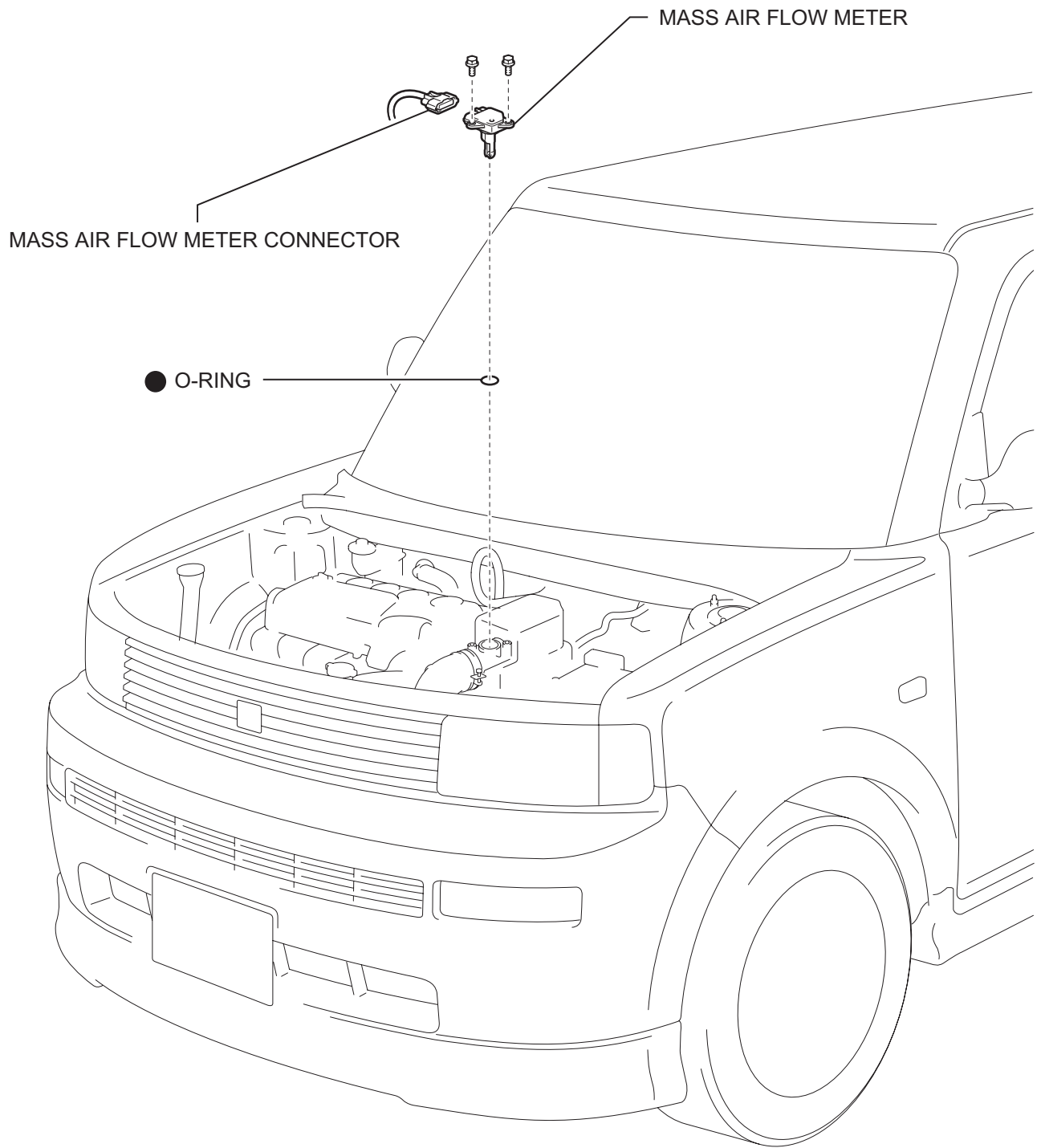


MASS AIR FLOW METER

COMPONENTS



ES

● Non-reusable part

ON-VEHICLE INSPECTION

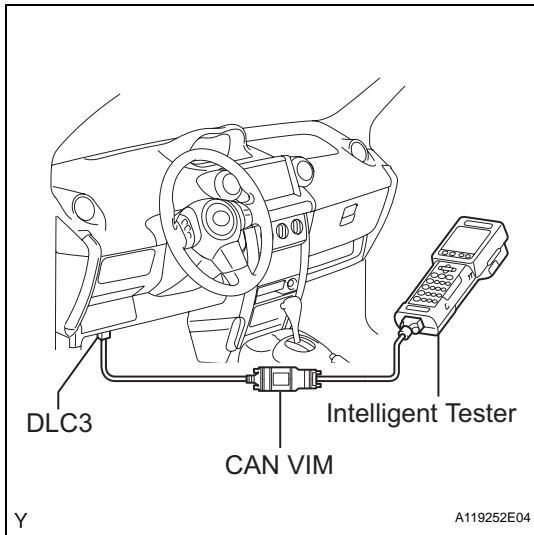
NOTICE:

- 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.

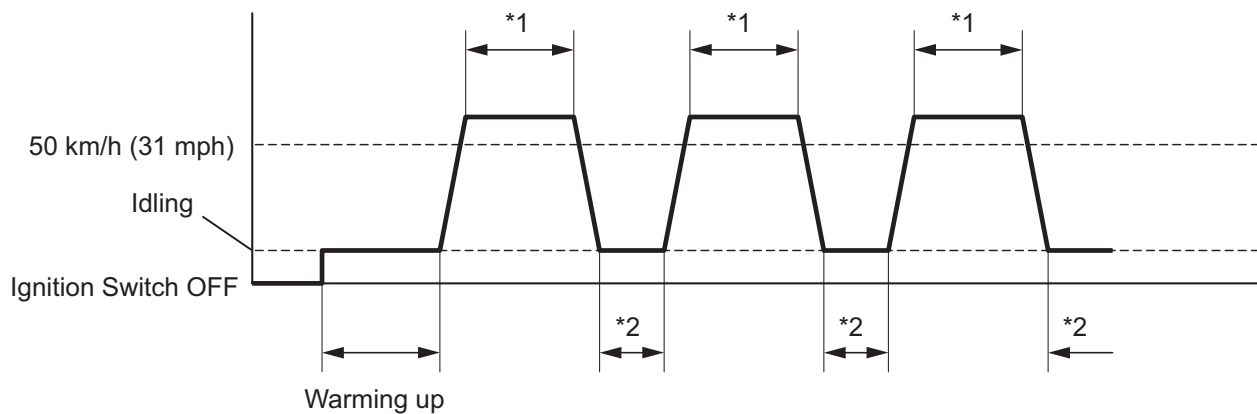
1. CHECK MASS AIR FLOW METER

(a) Perform confirmation driving pattern.

- (1) Connect the intelligent tester to the DLC3.
- (2) Turn the ignition switch ON.
- (3) Turn the tester ON.
- (4) Clear the DTCs (see page ES-37).
- (5) Start the engine and warm it up with all accessory switches OFF (until the engine coolant temperature is 75°C (167°F) or more).
- (6) Drive the vehicle at 50 km/h (31 mph) or more for 3 to 5 minutes*1.
- (7) Allow the engine to idle for 2 minutes*2.
- (8) Perform steps *1 and *2 at least 3 times.



(Vehicle Speed)



*1: 3 to 5 minutes

*2: 2 minutes

(b) Read value using intelligent tester (LONG FT#1).

- (1) Select the following menu items: DIAGNOSIS / ENHANCED OBD II / DATA LIST / PRIMARY / LONG FT#1.
- (2) 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 value using 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 0.27g/s

- 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-148](#)).

REMOVAL

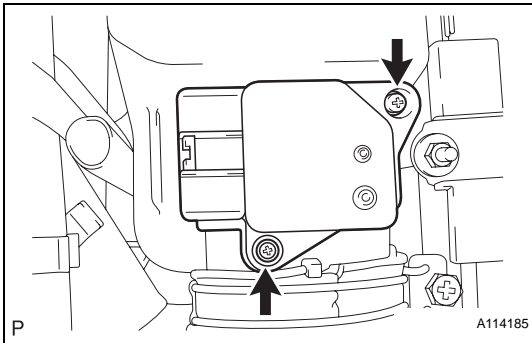
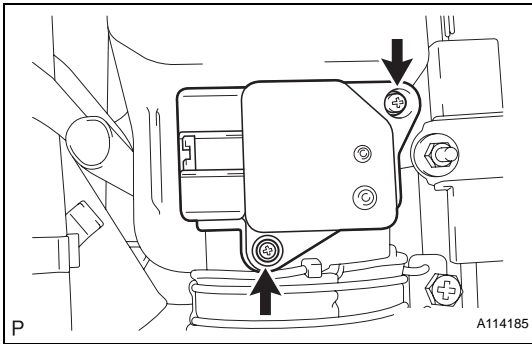
1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. **REMOVE MASS AIR FLOW METER**

- (a) Disconnect the MAF meter connector.
- (b) Remove the 2 screws and MAF meter.
- (c) Remove the O-ring from the MAF meter.



INSTALLATION

1. **INSTALL MASS AIR FLOW METER**

- (a) Install a new O-ring to the MAF meter.
- (b) Install the MAF meter with the 2 screws.
- (c) Connect the MAF connector.

2. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**