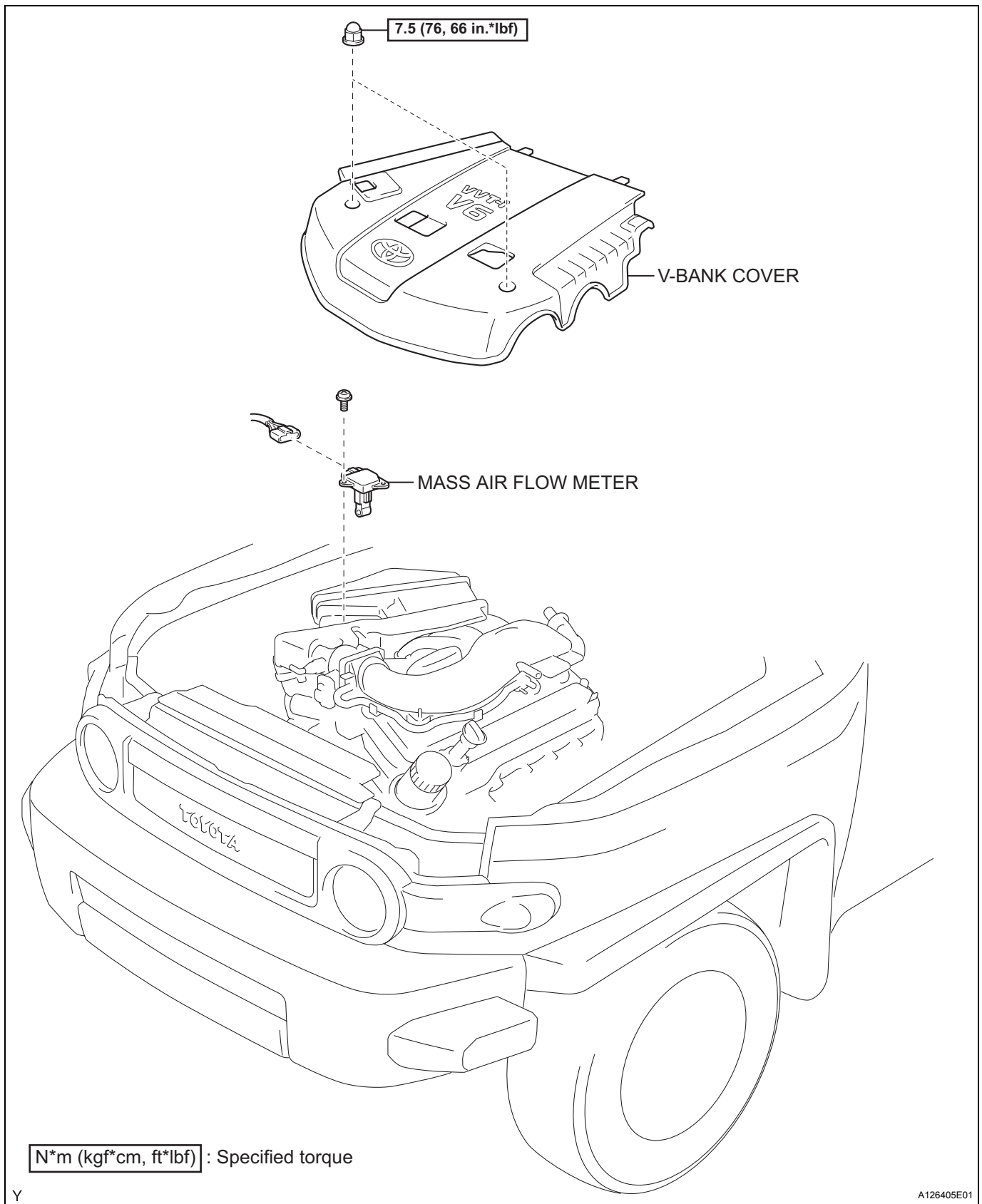


# MASS AIR FLOW METER

## COMPONENTS



ES

## ON-VEHICLE INSPECTION

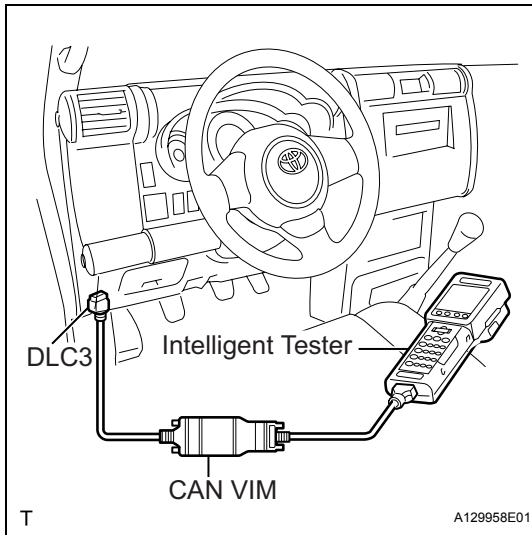
### NOTICE:

- 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.

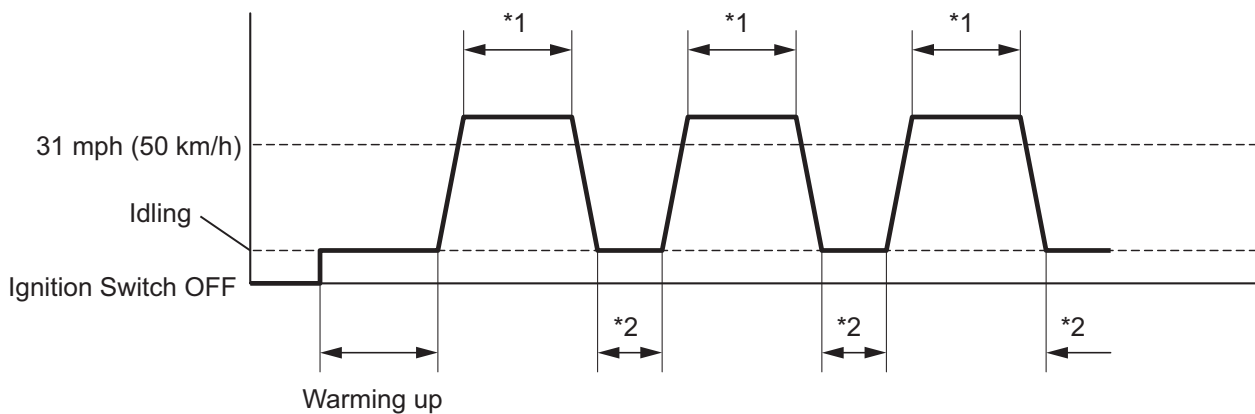
### 1. INSPECT MASS AIR FLOW METER

#### (a) Perform the confirmation driving pattern.

- (1) Connect the intelligent tester to the DLC3.
- (2) Turn the ignition switch ON.
- (3) Turn the intelligent tester ON.
- (4) Clear the DTCs (see page ES-38).
- (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 31 mph (50 km/h) or more for 3 or more \*1.
- (7) Let the engine idle (accelerator pedal fully released) for 2 minutes or more \*2.
- (8) Perform steps \*1 and \*2 at least 3 times.



(Vehicle Speed)



\*1: 3 minutes or more

\*2: 2 minutes or more

#### (b) Read the 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 the 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 in the air cleaner case (installed on 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 0.72 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.