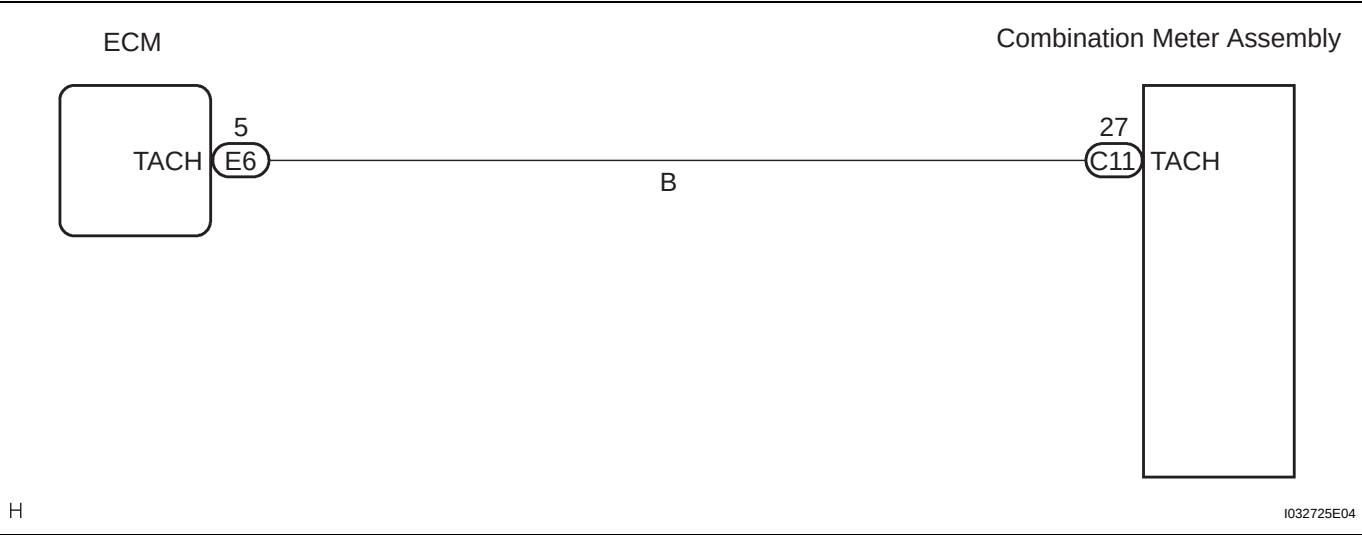


Tachometer Malfunction

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE OF INTELLIGENT TESTER

- (a) Warm up the engine.
- (b) Ignition switch off.
- (c) Connect the intelligent tester to the DLC3.
- (d) Turn the ignition switch to the ON position.
- (e) Turn the tester ON.
- (f) Enter following menus: DIAGNOSIS / OBD/MOBD / ENGINE / DATA LIST.
- (g) Check values by referring to the table below.

ENGINE:

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
ENGINE SPD	Engine speed / Min.: 0 rpm, Max.: 16,383 rpm	Almost the same as the actual engine speed (When engine is running)	-

OK:
Engine speed displayed on the tester is almost the same as the actual engine speed.

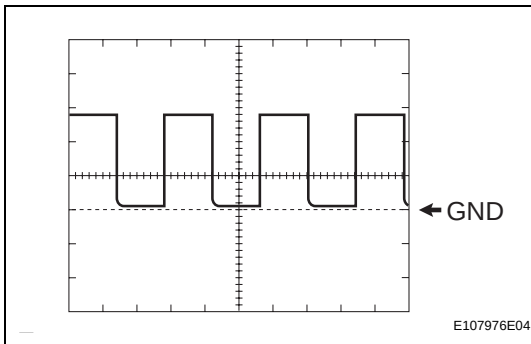
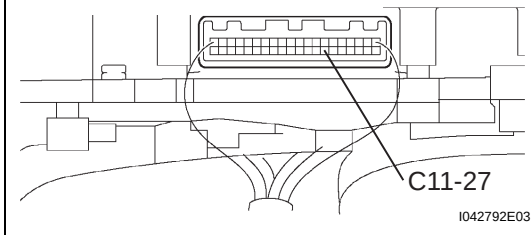
NG GO TO SFI SYSTEM

OK

2

INSPECT COMBINATION METER ASSEMBLY

Combination Meter Assembly
Wire Harness View:



- (a) Check the input signal wave form.
- (1) Remove the combination meter with connector still connected.
 - (2) Connect the oscilloscope to terminal C11-27 and body ground.
 - (3) Start the engine.

- (4) Check the signal wave form according to the condition(s) in the table below.

Item	Condition
Tool setting	5 V/DIV., 10 ms/DIV.
Vehicle condition	Engine idle speed

OK:

The waveform is displayed as shown in the illustration

OK

NG

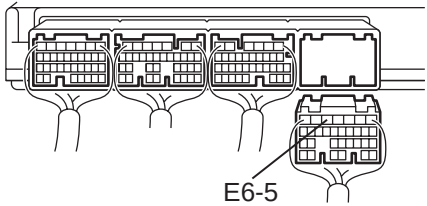
Go to step 3

REPLACE COMBINATION METER ASSEMBLY

3

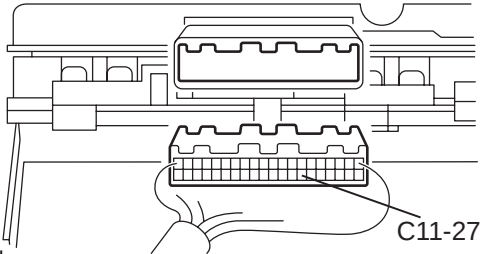
CHECK HARNESS AND CONNECTOR (COMBINATION METER - ECM)

ECM Wire Harness View:



E6-5

Combination Meter Assembly Wire Harness View:



C11-27

H

E140026E02

- (a) Disconnect the C11 and E6 connectors.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
C11-27 - E6-5	Always	Below 1 Ω
C11-27 - Body ground	Always	10 kΩ or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE ECM

ME