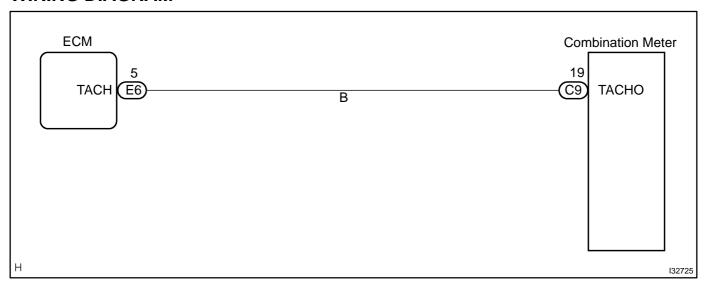
MALFUNCTION IN TACHOMETER

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE OF HAND-HELD TESTER

- (a) Check output value of ECM.
 - (1) Connect the hand-held tester to DLC3.
 - (2) Turn the ignition switch to ON and push the hand-held tester main switch ON.

NG

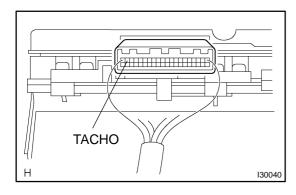
(3) Select the DATA LIST mode on the hand-held tester.

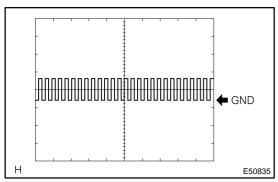
ltem	Condition	Specified Condition	Mesurement Item / Range (Display)
ENGINE SPD	With Engine Idling	650 – 750rpm	Engine Speed / Min.: 0 rpm, Max.: 16,383rpm

GO TO ENGINE CONTROL SYSTEM

ОК

2 INSPECT COMBINATION METER ASSY





(REFERENCE) INSPECTION USING OSCILLOSCOPE

- (a) Check the input signal waveform.
 - Remove the combination meter assy with connectors still connected.
 - (2) Connect the oscilloscope to the terminals C9–19 of combination meter assy and body ground.
 - (3) Start engine.
 - (4) Check the signal waveform.

Item	Contents	
Tool setting	10 V/ DIV, 20 ms/ DV	
Vehicle condition	Engine idle speed	

OK CHECK AND REPLACE COMBINATION METER ASSY

NG

3 CHECK HARNESS AND CONNECTOR(BETWEEN ECM AND COMBINATION METER ASSY)

- (a) Remove the combination meter.
- (b) Check the continuity between terminals 5 (TACH) of ECM and C9–19 of combination meter connector. **Standard: There is continuity.**

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE ECM