DTC	C1779/79	CRANKSHAFT POSITION SENSOR CIRCUIT

DTC	C1797/97	CRANKSHAFT POSITION SENSOR CIRCUIT

CIRCUIT DESCRIPTION

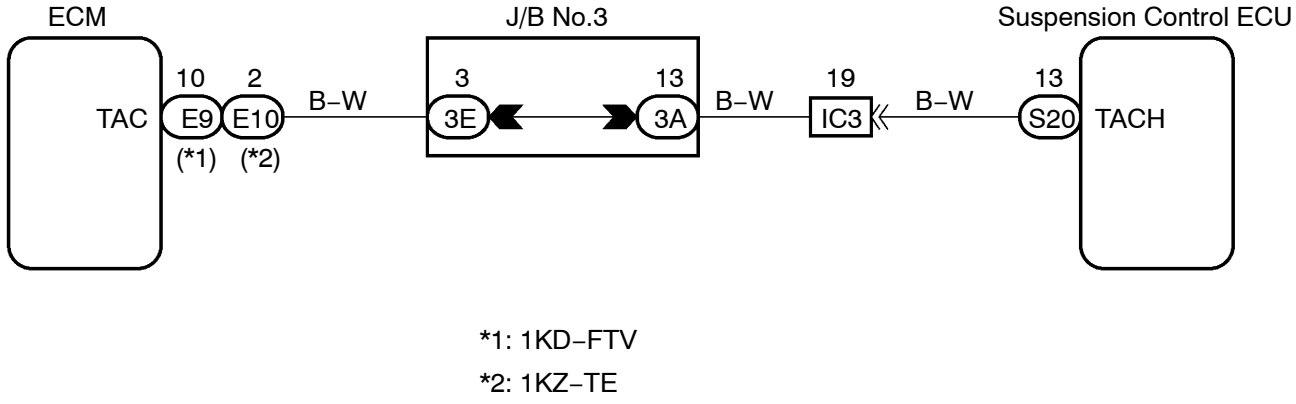
The suspension control ECU receives the engine speed signal from ECM.

DTC No.	DTC Detecting Condition	Trouble Area
C1779/79	TACH signal is not sent to suspension control ECU, and the vehicle is driven for 10 sec. or more at the speed of 30 km/h or higher.	• Crankshaft position sensor • Crankshaft position sensor circuit • ECM • Suspension control ECU

HINT:

When DTC C1797/97 is output, follow the same procedure as DTC1779/79.

WIRING DIAGRAM



INSPECTION PROCEDURE

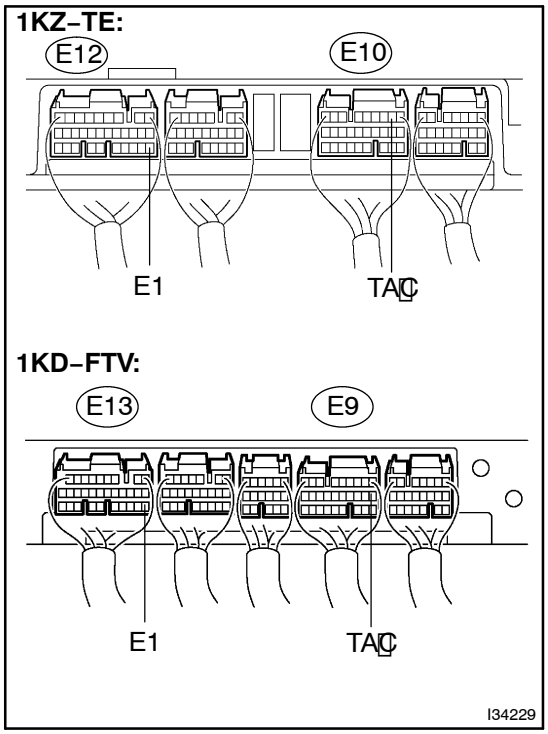
1	CHECK HARNESS AND CONNECTOR(SUSPENSION CONTROL ECU – ECM)

(a) Check for open and short circuit in the harness and the connector between the suspension control ECU and ECM (See page 01–36).

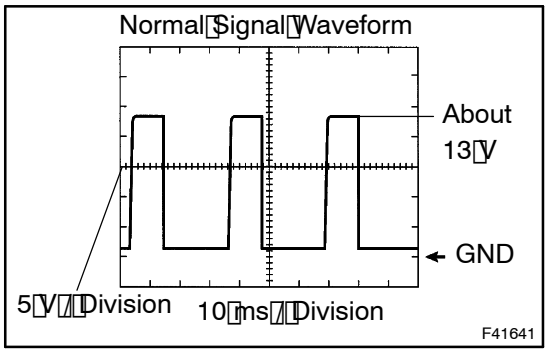
NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

2	INSPECT ECM(TAC OUTPUT)



(a) Remove the ECM with connector being connected.
(b) Turn the ignition switch to ON.
(c) 1KZ–TE:
Connect an oscilloscope to terminal E10–2 (TAC) and E12–22 (E1) of ECM harness side connector.
(d) 1KD–FTV:
Connect an oscilloscope to terminal E9–10 (TAC) and E13–22 (E1) of ECM harness side connector.



(e) With the engine idling, check the signal waveform.
Standard:
Signal waveform appears as shown in the illustration.

HINT:
As the engine speed becomes higher, the waveform cycle gets shorter.

NG → CHECK AND REPLACE ECM (See page 01–36)

OK

CHECK AND REPLACE SUSPENSION CONTROL ECU (See page 01–36)