

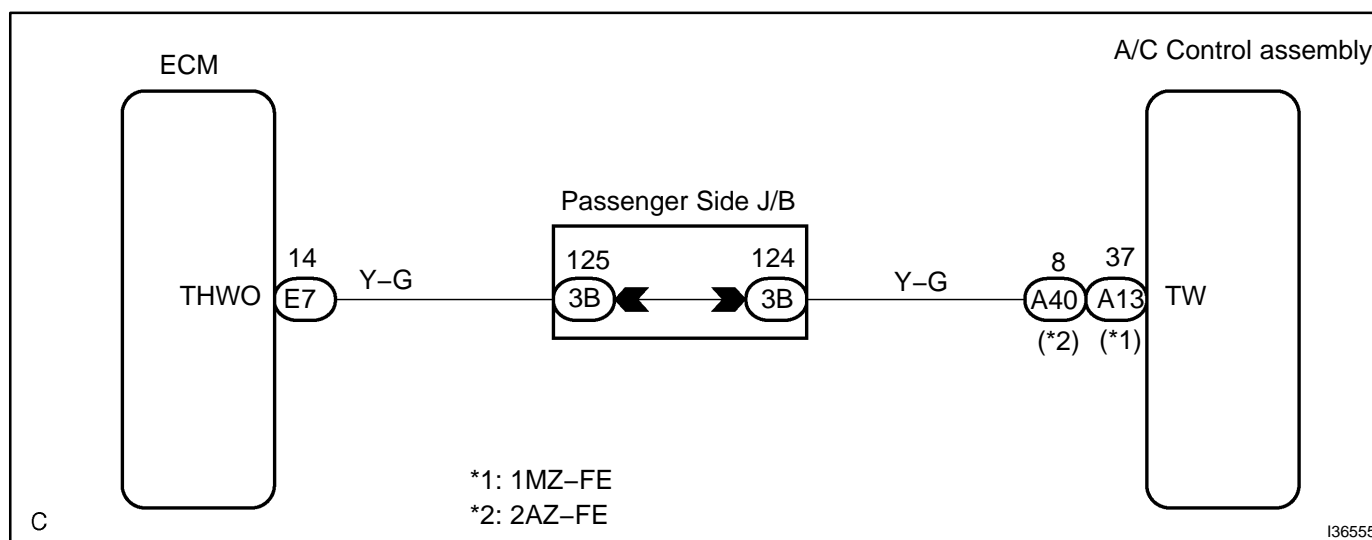
DTC	14	ENGINE COOLANT TEMPERATURE COMMUNICATION CIRCUIT
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CIRCUIT DESCRIPTION

This sensor detects the temperature and sends the appropriate signals to the A/C amplifier. These signals are used for warm up control when engine is cold.

DTC No.	Detection Item	Trouble Area
14	Open or short in A/C amplifier and ECM circuit.	<ul style="list-style-type: none"> • ECM • Harness or connector between ECM and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	DIAGNOSTIC TROUBLE CODE CHECK
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(a) Check that the DTC P0115/22 does not output.

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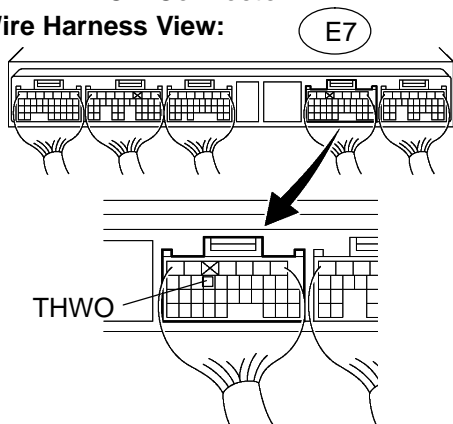
GO TO ENGINE CONTROL SYSTEM

OK

2 INSPECT ECM(THWO)

1MZ-FE ECM Connector

Wire Harness View:



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- Remove ECM with connectors still connected.
- Turn the ignition switch to the ON position.
- Measure the waveform between terminal THWO of the ECM connector and body ground.

Standard: Pulse generation

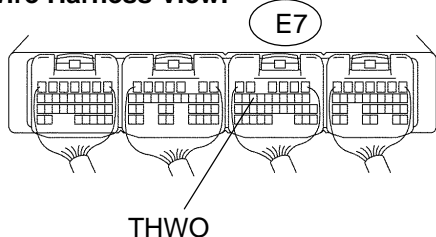
HINT:

- The correct waveform is as shown.
- Water temperature changes A.

Water temp.	Below 30°C (86°F)	Approx. 75°C (167°F)	90°C – 100°C (194°F – 212°F)
A	16ms	102ms	262ms

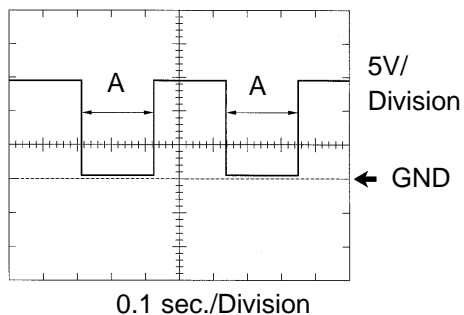
2AZ-FE ECM Connector

Wire Harness View:



P

C96070



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CHECK AND REPLACE ECM

OK

3 CHECK HARNESS AND CONNECTOR(ECM – HEATER CONTROL HOUSING SUB-ASSY)

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE HEATER CONTROL HOUSING SUB-ASSY