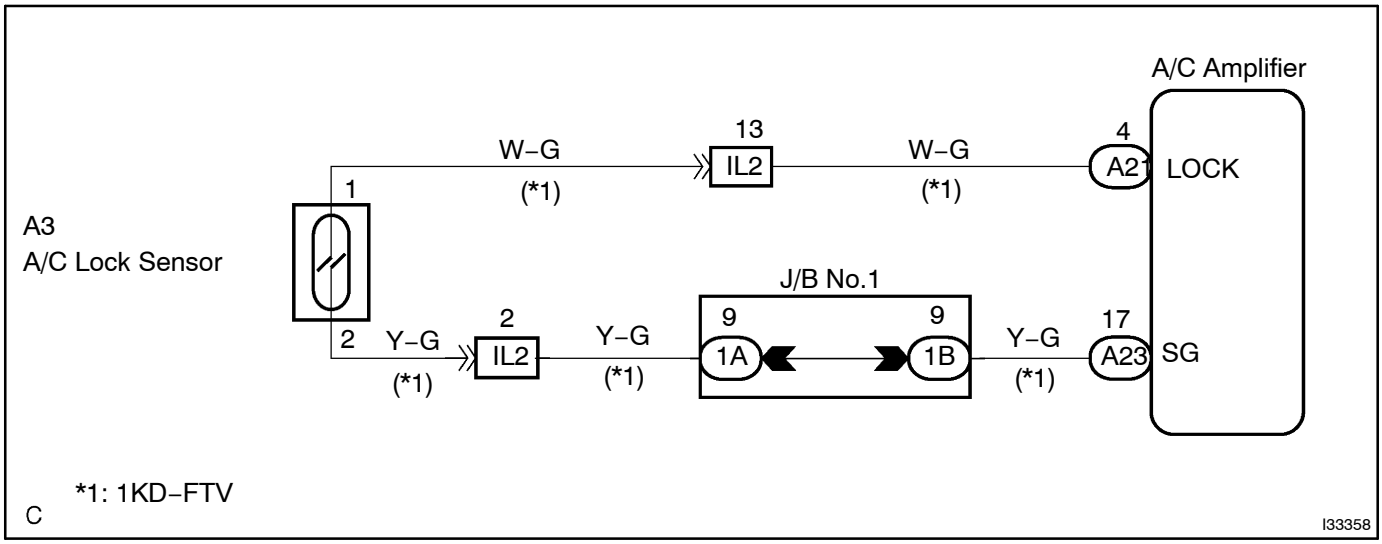
DTC 22 COMPRESSOR LOCK SENSOR CIRCUIT

CIRCUIT DESCRIPTION

This sensor sends 4 pulses par engine revolution to the A/C amplifier. If the number ratio of the compressor speed divided by the engine speed is smaller than a predetermined value, the A/C amplifier turns the compressor off. And, the indicator flashes at about 1 sec. intervals.

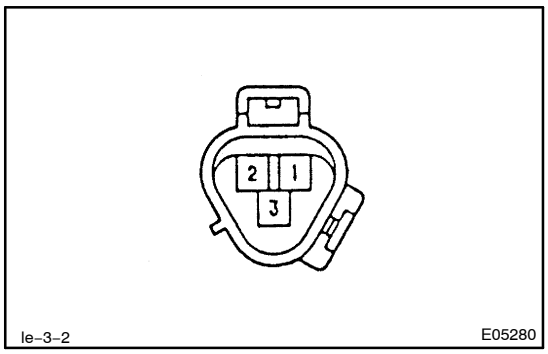
DTC No.	Detection Item	Trouble Area
22	All conditions below are detected for 3 sec. or more. (a) Engine speed : 450 rpm or more. (b) Ratio between engine and compressor speed deviates 20% or more in comparison to normal operation.	• Compressor drive belt • Compressor lock sensor • Compressor assy • Harness or connector between compressor lock sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT COOLER COMPRESSOR ASSY



(a) Disconnect cooler compressor assy connector.
(b) Measure resistance between terminal 1 and 2 of cooler compressor lock sensor connector.
Resistance: 165 – 205 Ω at 20°C (68°F)

NG → **REPLACE COOLER COMPRESSOR ASSY**

OK

2	CHECK HARNESS AND CONNECTOR(COOLER COMPRESSOR ASSY – A/C AMPLIFIER)

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

CHECK AND REPLACE AIR CONDITIONING AMPLIFIER