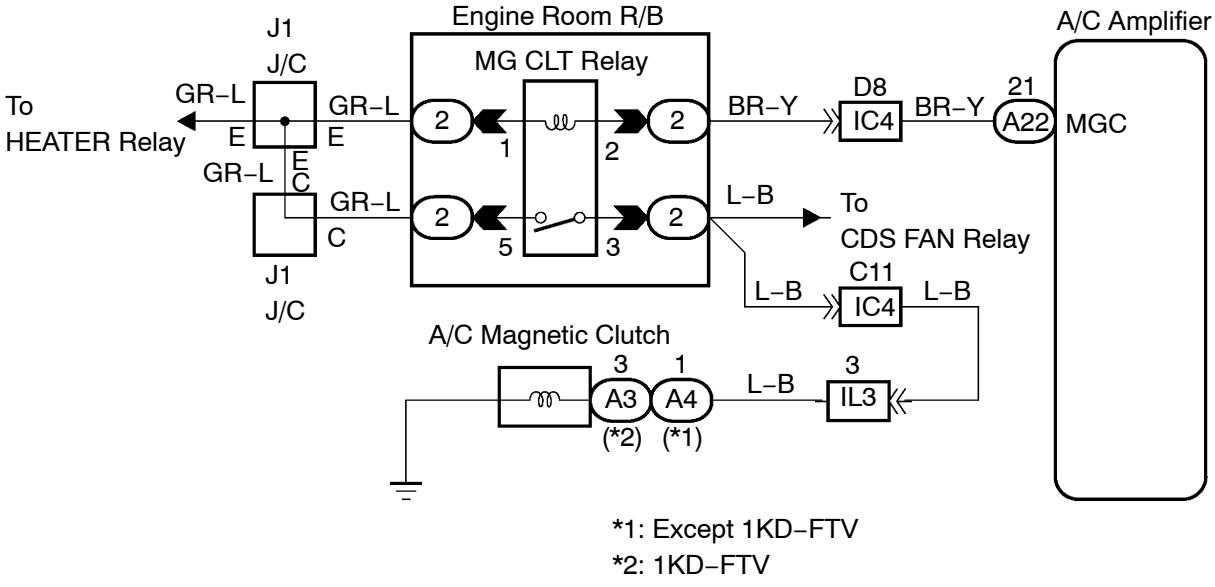
COMPRESSOR CIRCUIT

CIRCUIT DESCRIPTION

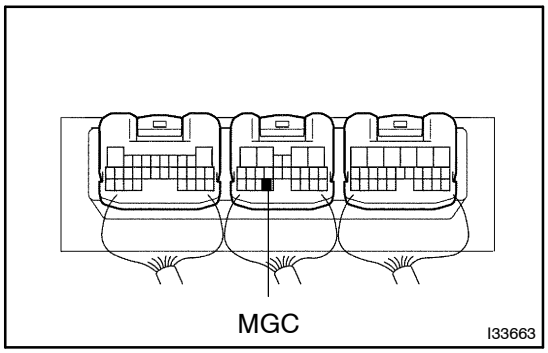
A/C amplifier switches the A/C magnetic clutch relay ON, thus turning the A/C compressor magnetic clutch ON.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT AIR CONDITIONING AMPLIFIER(MGC)

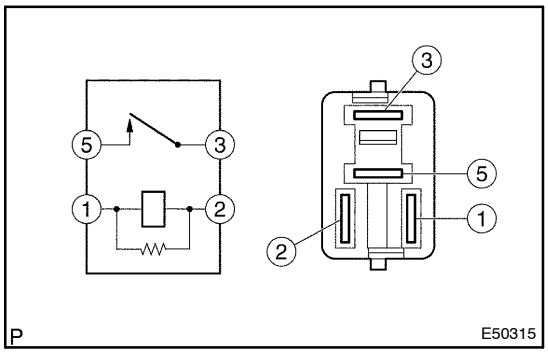


(a) Remove A/C amplifier with being connected.
(b) Turn ignition switch ON.
(c) Measure voltage between terminal MGC of A/C amplifier and body ground.
Voltage:
A/C SW ON: Below 1.0 V
A/C SW OFF: 10 – 14 V

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE**

NG

2 INSPECT COOLER RELAY ASSY



(a) Remove the cooler relay assy from engine room J/B.
(b) Check continuity between each pair of terminals shown below of relay.

Continuity:

Tester connection	Specified condition
1 – 2	Continuity
3 – 5	No continuity

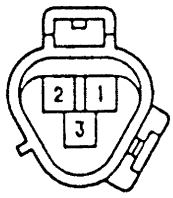
(c) Apply battery voltage between terminal 1 and 2.
(d) Check that continuity exists between terminal 3 and 5.
OK: Continuity

NG → **REPLACE COOLER RELAY ASSY**

OK

3	INSPECT COOLER COMPRESSOR ASSY

1KD–FTV

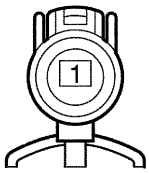


Ie–3–2 E05280

(a) Disconnect the connector from the cooler compressor assy.

(b) Connect the positive (+) lead from the battery to terminal 3 (1) and negative (–) lead to terminal body ground, then check that the magnetic clutch is engaged.
( ): 3RZ–FE, 1KZ–TE, 5L–E

3RZ–FE, 1KZ–TE, 5L–E



I33658

NG → **REPLACE COOLER COMPRESSOR ASSY**

OK

4	CHECK HARNESS AND CONNECTOR(COOLER RELAY ASSY – A/C AMPLIFIER)

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE