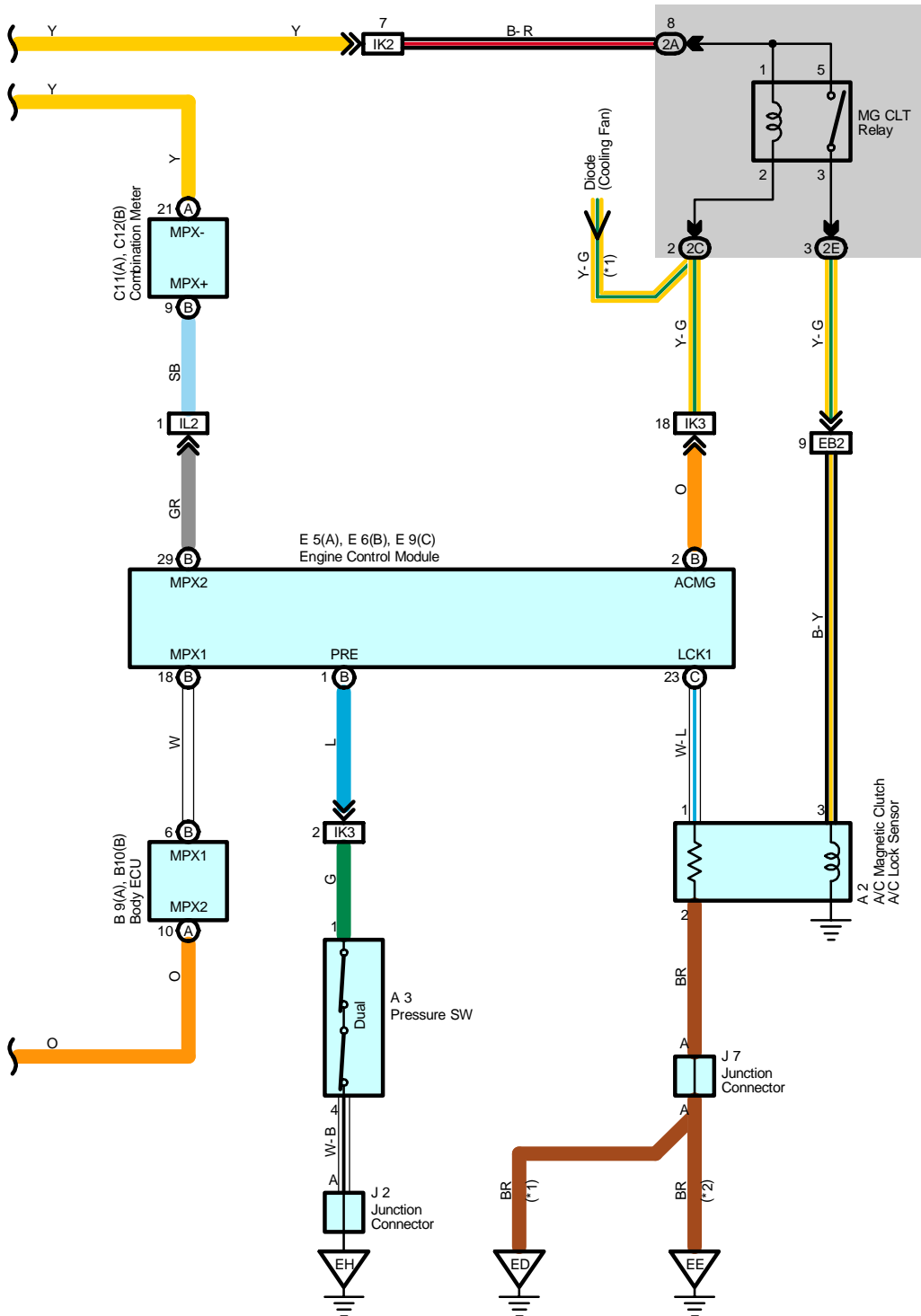


- * 1 : 3MZ- FE
- * 2 : 2AZ- FE
- * 3 : w/ Navigation System
- * 4 : w/o Navigation System



System Outline

1. Heater Blower Motor Operation

Current is applied at all times through the HTR fuse to TERMINAL 1 of the HEATER relay.

When the ignition SW is turned on, current flows through the HEATER fuse to TERMINAL 3 of the HEATER relay to TERMINAL 5 to TERMINAL 8 of the blower control SW.

* Low speed operation

When the blower SW is moved to LO position, the current to TERMINAL 8 of the blower control SW flows to TERMINAL 1 to GROUND, causing the HEATER relay is turned on. This causes the current to flow from the HTR fuse to TERMINAL 1 of the HEATER relay to TERMINAL 2 to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL 1 of the blower resistor to TERMINAL 4 to GROUND, causing the blower motor to rotate at low speed.

* Medium speed operation (Operation at M1, M2)

When the blower SW is moved to M1 position, the current to TERMINAL 8 of the blower control SW flows to TERMINAL 1 to GROUND, turns the HEATER relay on. This causes the current to flow from the HTR fuse to TERMINAL 1 of the HEATER relay to TERMINAL 2 to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL 1 of the blower resistor to TERMINAL 2 to TERMINAL 6 of the blower control SW to TERMINAL 1 to GROUND. At this time, the blower resistance of the blower resistor is less than at low speed, so the blower motor rotates at medium low speed.

When the blower control SW is moved to M2 position, current flowing through the motor flows from TERMINAL 1 of the blower resistor to TERMINAL 3 to TERMINAL 5 of the blower control SW to TERMINAL 1 to GROUND. At this time, resistance of the blower resistor is less than at M1 position, so the blower motor rotates at medium high speed.

* High speed operation

When the blower SW is moved to HI position, the current flows to TERMINAL 8 of the blower control SW to TERMINAL 1 to GROUND and turns the HEATER relay on.

This causes the current to flow from the HTR fuse to TERMINAL 1 of the HEATER relay to TERMINAL 2 to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL 4 of the blower control SW to TERMINAL 1 to GROUND, causing the blower motor to rotate at high speed.

2. Air Conditioning Operation

If the A/C control SW is turned on when the blower SW is set to on, A/C operation starts. However, when the mode SW is at DEF or FOOT/DEF position, forcibly the air intake is set to FRESH mode and the A/C operates.

Service Hints

A3 Pressure SW

1-4 : Open with the pressure less than 2.0 kgf/cm² (28 psi, 196 kpa) or above 32 kgf/cm² (455 psi, 3138 kpa)

A10 (A) A/C Control Assembly

(A) 11-Ground : Always continuity

(A) 2-Ground : Approx. 12 volts with the ignition SW at ON position

(A) 12-Ground : Always approx. 12 volts

(A) 13-Ground : Approx. 12 volts with the ignitino SW at ACC or ON position

B8 Blower Resistor

1-3 : Approx. 0.22 Ω

1-2 : Approx. 0.69 Ω

1-4 : Approx. 1.69 Ω

B5 Blower Control SW

8-1 : Continuity with the blower SW at LO, M1, M2 or HI position

6-1 : Continuity with the blower SW at M1 position

5-1 : Continuity with the blower SW at M2 position

4-1 : Continuity with the blower SW at HI position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A2	38 (3MZ-FE) 40 (2AZ-FE)	B6	42	F7	40 (2AZ-FE)
A3	38 (3MZ-FE) 40 (2AZ-FE)	B8	42	G5	43
A10	A	B9	A	H9	43
A11	B	B10	B	J2	39 (3MZ-FE) 41 (2AZ-FE)
A13	42	C11	A	J5	43
A14	42	C12	B	J7	43
A15	42	E5	A	P5	44
A17	42	E6	B	S30	A
B5	42	E9	C	S31	B
		E12	42	T15	43
		F7	38 (3MZ-FE)		

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	28	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2C		
2E		
3A	30	Instrument Panel Wire and Center J/B (Behind the Instrument Panel Center)
3E		
3F		
3I	31	
3J		
4A	33	Cowl Wire and Passenger Side J/B (Right Side of Grove Box)
4F		
4H		
4L	32	

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB2	48 (3MZ-FE) 50 (2AZ-FE)	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B)
IB2	52	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC3	52	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IF3	52	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IG1	52	Instrument Panel Wire and Cowl Wire (Upper Portion of Right Instrument Panel Brace)
II1	54	Instrument Panel Wire and A/C Sub No.1 Wire (Upper Portion of Right Instrument Panel Brace)
IJ1	54	Instrument Panel Wire and A/C Sub No.3 Wire (Upper Portion of Right Instrument Panel Brace)
IK2	54	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IK3		
IK4		
IL2	54	Instrument Panel Wire and Cowl Wire (Upper Side of Passenger Side J/B)

Manual Air Conditioning



: GROUND POINTS

Code	See Page	Ground Points Location
ED	48 (3MZ-FE)	Rear Side of Cylinder Head
EE	50 (2AZ-FE)	Intake Side of Cylinder Block
EH	48 (3MZ-FE)	Under the Left Headlight
	50 (2AZ-FE)	
IA	52	Left Cowl Side Panel
IB	52	Right Instrument Panel Brace
IC	52	Right Cowl Side Panel



: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I6	54	Engine Wire	I14	54	A/C Sub No.3 Wire
I13	54	A/C Sub No.1 Wire			

