

MANUAL AIR CONDITIONER

SYSTEM OUTLINE

1. HEATER BLOWER MOTOR OPERATION

Current is applied at all times through the HTR fuse (50A) to TERMINAL 5 of the heater relay.

When the ignition SW is turned on, current flows through the HTR fuse (10A) to TERMINAL 2 of the heater relay to the coil side to TERMINAL 1 to TERMINAL 8 of the blower SW.

* Low speed operation

When the blower SW is moved to LO position, current flows to TERMINAL 8 of the blower SW to TERMINAL 1 to GROUND, causing the heater relay to switch on. This causes the current to flow from the HTR fuse (50A) to TERMINAL 5 of the heater relay to TERMINAL 3 to TERMINAL 1 of the blower motor to TERMINAL 2 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, current flows to TERMINAL 8 of the blower SW to TERMINAL 1 to GROUND, turning the heater relay to switch on. This causes the current to flow from the HTR fuse (50A) to TERMINAL 5 of the heater relay to TERMINAL 3 to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 1 of the blower resistor to TERMINAL 2 to TERMINAL 6 of the blower 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 SW is moved to M2 position, current flows through the motor flows from TERMINAL 1 of the blower resistor to TERMINAL 3 to TERMINAL 5 of the blower 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 HIGH position, current flows to TERMINAL 8 of the blower SW to TERMINAL 1 to GROUND, turning the heater relay to switch on.

This causes the current to flow from the HTR fuse (50A) to TERMINAL 5 of the heater relay to TERMINAL 3 to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 4 of the blower SW to TERMINAL 1 to GROUND, causing the blower motor to rotate at high speed.

SERVICE HINTS

B4 BLOWER RESISTOR

1-3 : Approx. **0.47 Ω**

1-2 : Approx. **1.42 Ω**

1-4 : Approx. **2.28 Ω**

B5 BLOWER SW

8-1 : Continuity with the blower SW at **LO, M1, M2** and **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
A3	88 (LHD 1ZZ-FE)	B3		90 (LHD)	E3	A	88 (LHD 1ZZ-FE)
	94 (RHD 1ZZ-FE)		98 (RHD)	94 (RHD 1ZZ-FE)			
	96 (RHD 2ZZ-GE)		90 (LHD)	96 (RHD 2ZZ-GE)			
A4	88 (LHD 1ZZ-FE)	B4		98 (RHD)	E4	B	88 (LHD 1ZZ-FE)
	94 (RHD 1ZZ-FE)		90 (LHD)	94 (RHD 1ZZ-FE)			
	96 (RHD 2ZZ-GE)		98 (RHD)	96 (RHD 2ZZ-GE)			
A15	90 (LHD)	C11	A	90 (LHD)	J1		89 (LHD 1ZZ-FE)
	98 (RHD)			98 (RHD)			95 (RHD 1ZZ-FE)
A18	90 (LHD)	C12	B	90 (LHD)			
	98 (RHD)			98 (RHD)			



: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	82	Engine Room R/B No.1 (Engine Compartment Left)

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	81	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IC		
ID		
IE	81	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IM		
IP	81	Cowl No.2 Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IQ		
2B	79	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	79	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	102 (LHD 1ZZ-FE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
	110 (RHD 1ZZ-FE)	
	112 (RHD 2ZZ-GE)	
ID1	104 (LHD)	Cowl No.2 Wire and Instrument Panel Wire (Instrument Panel Brace LH)
	114 (RHD)	
IE5	104 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IG2	106 (LHD)	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)

 : GROUND POINTS

Code	See Page	Ground Points Location
EB	102 (LHD 1ZZ-FE)	Front Left Fender
	110 (RHD 1ZZ-FE)	
	112 (RHD 2ZZ-GE)	
ED	102 (LHD 1ZZ-FE)	Cylinder Head Cover LH
	110 (RHD 1ZZ-FE)	
	112 (RHD 2ZZ-GE)	
IF	104 (LHD)	Instrument Panel Brace RH
	114 (RHD)	
IG	104 (LHD)	Cowl Side Panel RH
IH	104 (LHD)	
	114 (RHD)	

 : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I2	106 (LHD)	Cowl No.2 Wire	I2	116 (RHD)	Cowl No.2 Wire