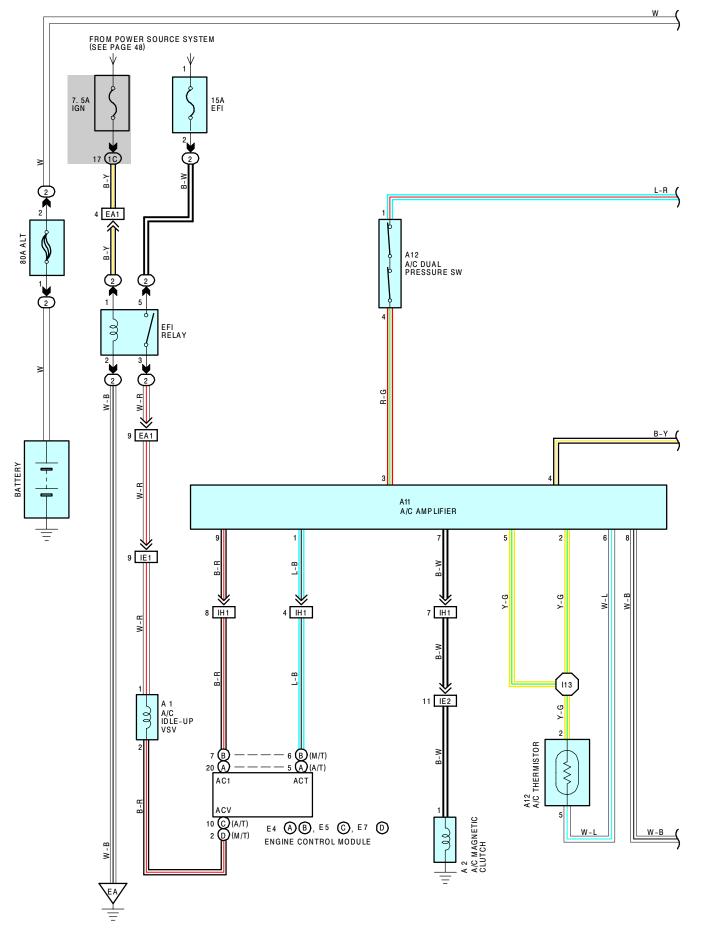
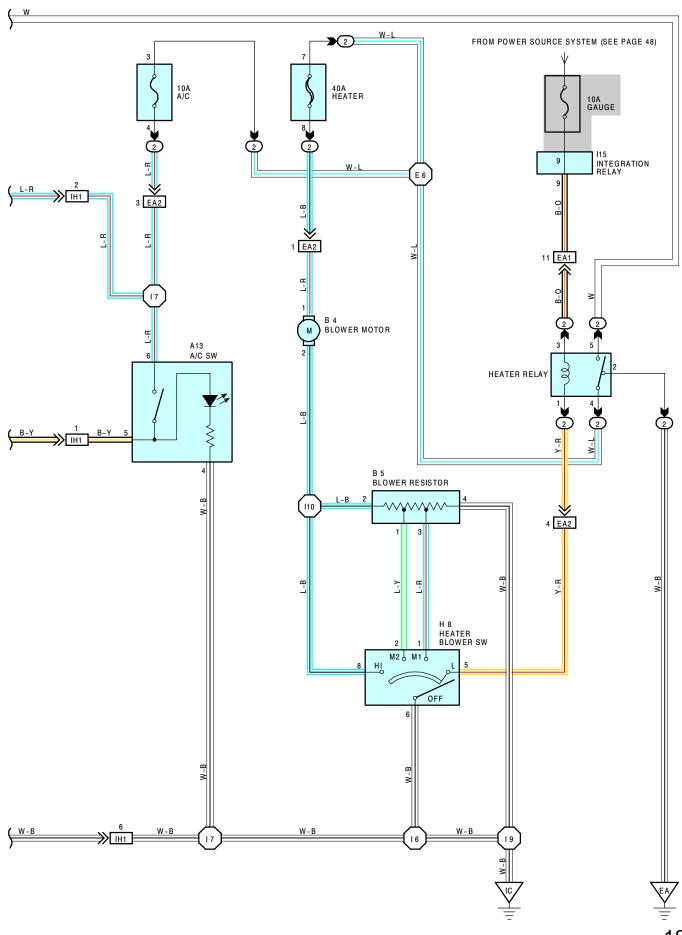
AIR CONDITIONING (5VZ-FE)





SYSTEM OUTLINE

1. HEATER BLOWER MOTOR OPERATION

WITH THE IGNITION SW ON, CURRENT FROM THE **GAUGE** FUSE FLOWS TO **TERMINAL 3** OF THE HEATER RELAY \rightarrow COIL \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 5** OF THE HEATER BLOWER SW.

(LOW SPEED OPERATION)

WHEN THE HEATER BLOWER SW IS MOVED TO THE LOW SPEED POSITION, THE CURRENT APPLIED TO **TERMINAL 5** FLOWS TO **TERMINAL 6** \rightarrow **GROUND**, CAUSING THE HEATER RELAY TO COME ON. THEN THE CURRENT FROM THE **ALT** FUSE FLOWS TO **TERMINAL 5** OF THE HEATER RELAY \rightarrow **TERMINAL 4** \rightarrow THE **HEATER** FUSE \rightarrow **TERMINAL 1** OF THE BLOWER MOTOR \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 2** OF THE BLOWER RESISTOR \rightarrow **TERMINAL 4** \rightarrow **GROUND**, CAUSING THE BLOWER MOTOR TO ROTATE.

THIS TIME, THE CURRENT FLOWS AGAINST THE FULL RESISTANCE OF THE BLOWER RESISTOR, SO THE MOTOR TURNS SLOWLY AT LOW SPEED.

(OPERATION AT SPEED M1, M2)

WHEN THE HEATER BLOWER SW IS MOVED TO THE SPEED M1 POSITION, THE CURRENT APPLIED TO **TERMINAL 5** FLOWS TO **TERMINAL 6** \rightarrow **GROUND**, TURNING THE HEATER RELAY TO ON. THEN, THE SAME AS WITH LOW SPEED, THE CURRENT PASSING THROUGH THE HEATER FUSE TO THE BLOWER MOTOR \rightarrow **TERMINAL 2** OF THE BLOWER RESISTOR \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 1** OF THE HEATER BLOWER SW \rightarrow **TERMINAL 6** \rightarrow **GROUND**. THIS TIME, THE RESISTANCE OF THE BLOWER RESISTOR IS LESS THAN IT IS FOR LOW SPEED, SO THE BLOWER MOTOR ROTATES FASTER THAN IT DOES AT LOW SPEED. WITH THE HEATER BLOWER RESISTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 2** OF THE HEATER BLOWER RESISTOR \rightarrow **TERMINAL 2** OF THE HEATER BLOWER RESISTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 2** OF THE HEATER BLOWER MOTOR ROTATES FASTER THAN IT DOES AT LOW SPEED. WITH THE HEATER BLOWER SW IN THE M2 POSITION, THE CURRENT FLOW THROUGH THE MOTOR FLOWS TO **TERMINAL 2** OF THE BLOWER RESISTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 2** OF THE HEATER BLOWER SW \rightarrow **TERMINAL 6** \rightarrow **GROUND**. THIS TIME, RESISTANCE OF THE BLOWER RESISTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 2** OF THE HEATER BLOWER SW \rightarrow **TERMINAL 6** \rightarrow **GROUND**. THIS TIME, RESISTANCE OF THE BLOWER RESISTOR IS LESS THAN FOR SPEED M1 SO THAT THE BLOWER MOTOR ROTATES EVEN FASTER THAN FOR SPEED M1.

(HIGH SPEED OPERATION)

WITH THE HEATER BLOWER SWITCH IN HIGH SPEED POSITION, UNTIL THE HEATER RELAY COMES ON AND CURRENT FLOWS TO THE BLOWER MOTOR, OPERATION IS THE SAME AS FOR SPEED M1 AND M2. THE CURRENT PASSING THROUGH THE BLOWER MOTOR FLOWS TO **TERMINAL 8** OF THE HEATER BLOWER SW \rightarrow **TERMINAL 6** \rightarrow **GROUND** WITHOUT FLOWING THROUGH THE BLOWER RESISTOR, SO THAT THE BLOWER MOTOR ROTATES AT THE FASTEST SPEED, HIGH SPEED.

2. AIR CONDITIONER OPERATION

WHEN THE HEATER BLOWER SW IS SET TO ON, CURRENT FROM THE **ALT** FUSE FLOWS THROUGH THE **A/C** FUSE \rightarrow **TERMINAL 1** OF THE A/C DUAL PRESSURE SW \rightarrow **TERMINAL 4** \rightarrow **TERMINAL 3** OF THE A/C AMPLIFIER. THE EVAPORATOR TEMP. A SIGNAL FROM THE A/C THERMISTOR IS ALL SUPPLIED TO THE A/C AMPLIFIER. WHEN THE A/C SW IS TURNED ON, THE A/C SW ON SIGNAL IS SENT TO ACTIVATE THE A/C AMPLIFIER. CURRENT FLOWS FROM THE A/C AMPLIFIER TO THE A/C MAGNETIC CLUTCH, TURNING THE COMPRESSOR ON. AT THE SAME TIME, THE CURRENT APPLIED TO THE A/C IDEL-UP VSV FLOWS THROUGH TERMINAL ACV OF THE ENGINE CONTROL MODULE, ACTIVATING THE VSV TO PREVENT ENGINE SPEED DROP IN THE A/C OPERATION. THE A/C OPERATION IS SHUT OFF WHEN A SIGNAL INDICATING LOW EVAPORATOR TEMP., OR ABNORMALLY HIGH OR LOW REFRIGERANT PRESSURE, IS SUPPLIED WHILE THE ENGINE HIGH SPEED SIGNAL EXISTS. WHEN ONE OF THESE SIGNALS IS RECEIVED, THE AMPLIFIER SHUTS OFF THE A/C OPERATION.

SERVICE HINTS -

A13 A/C SW

6-GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION.

4-GROUND : ALWAYS CONTINUITY.

6-5 : CLOSED WITH A/C SW ON.

HEATER RELAY

(2) 4 - (2) 5 : CLOSED WITH IGNITION SW ON AND BLOWER SW ON.

(2) 5-GROUND : ALWAYS APPROX. 12 VOLTS.

(2) 3-GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION.

(2) 2-GROUND : ALWAYS CONTINUITY.

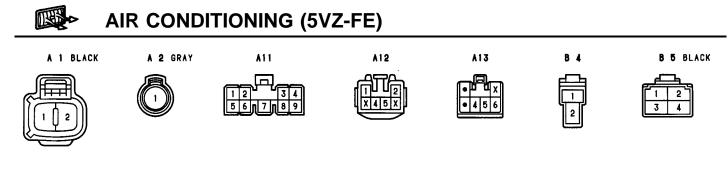
A12 A/C DUAL PRESSURE SW

1-4 : OPEN WITH REFRIGERANT PRESSURE AT LESS THAN APPROX. 2.0 KG/CM² (28.4 PSI, 196 KPA) OR MORE THAN APPROX. 32 KG/CM² (454 PSI, 3140 KPA).

CODE	SE	EE PAGE CC	DDE	SEE PAGE	COL	CODE		SEE PAGE
A1 22		B	34	26	E 7	D	27	
A 2	22	E	35	26	H	H 8		
A11	26		Α	27	115		27	
A12	26	E 4	В	27				
A13 26		E 5	С	27				
2	SEE PAGE 19 : JUNCTION BLC	RELAY BLOCKS (RELAY BL R/B NO. 2 (ENGINE COMP)	ARTMEI	NT LEFT)				
CODE 2		(,				
2	19	R/B NO. 2 (ENGINE COMP	ARTMEI	NT LEFT)				
2 :	19 JUNCTION BLC	R/B NO. 2 (ENGINE COMP)	ARTMEI	NT LEFT)				
2 :	19	R/B NO. 2 (ENGINE COMP)	ARTMEI SS CC IRE HAI	NT LEFT) DNNECTOR RNESS (CONNECTOR LOCATION)				
2 CODE IC	19 JUNCTION BLC SEE PAGE 20	R/B NO. 2 (ENGINE COMP)	ARTMEI SS CC IRE HAI 1 (LEFT S ANI AND WI	NT LEFT) DNNECTOR RNESS (CONNECTOR LOCATION) KICK PANEL)	ATION)			
2 CODE IC CODE EA1	19 JUNCTION BLC SEE PAGE 20 CONNECTOR J SEE PAGE	R/B NO. 2 (ENGINE COMP)	ARTMEI SS CC IRE HAI 1 (LEFT S ANI AND WI ROOM	NT LEFT) DNNECTOR RNESS (CONNECTOR LOCATION) KICK PANEL) D WIRE HARNESS RE HARNESS (CONNECTOR LOC) MAIN WIRE (INNER THE R/B NO. 2	ATION)			

CODE	SEE PAGE	GROUND POINTS LOCATION
EA	30	FRONT LEFT FENDER
IC	34	LEFT KICK PANEL

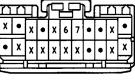
: SPLICE POINTS									
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS				
E 6	30	ENGINE ROOM MAIN WIRE	19	24	COWLWIRE				
16	34	COWLWIRE	l10	- 34					
17	- 0-		l13	34	A/C SUB WIRE				



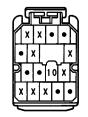
(A/T) E 4 🔕 DARK GRAY



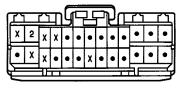
(N/T) E 4 B DARK GRAY

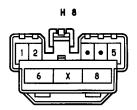


(A/T) E 5 🛈 DARK GRAY



(M/T) E 7 🛈 DARK GRAY





(SR5 GRADE) I15



(DLX GRADE) I15

