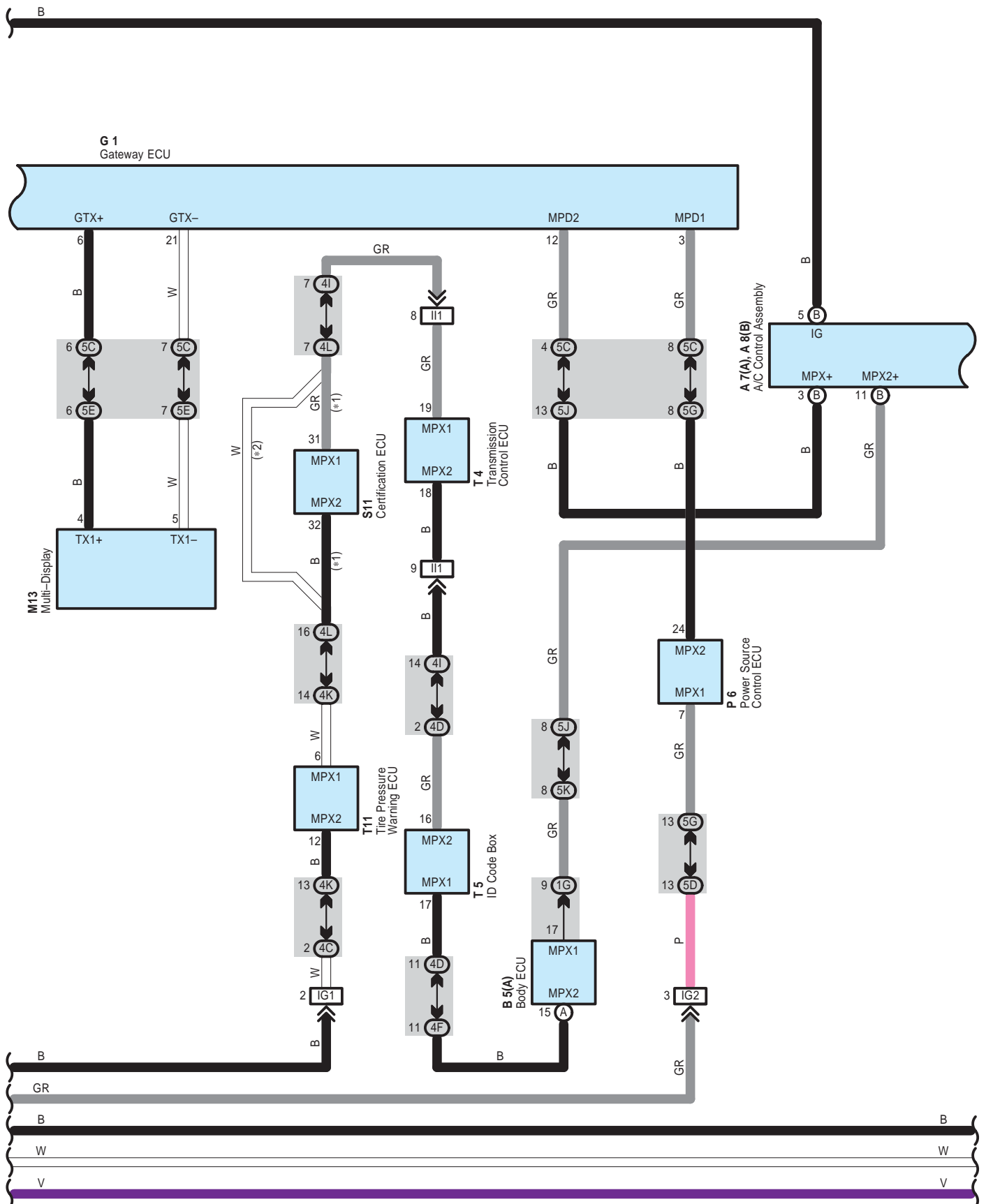
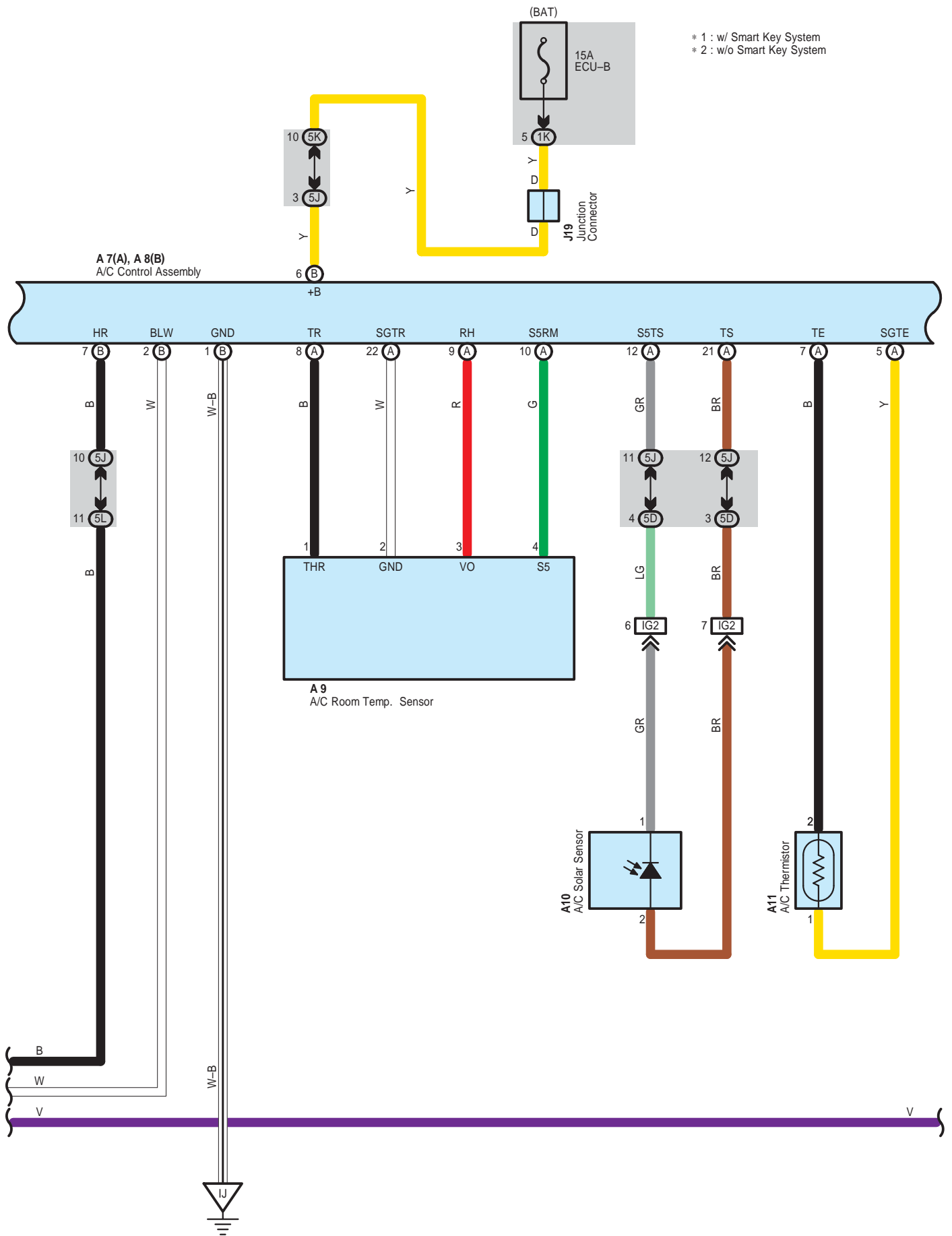
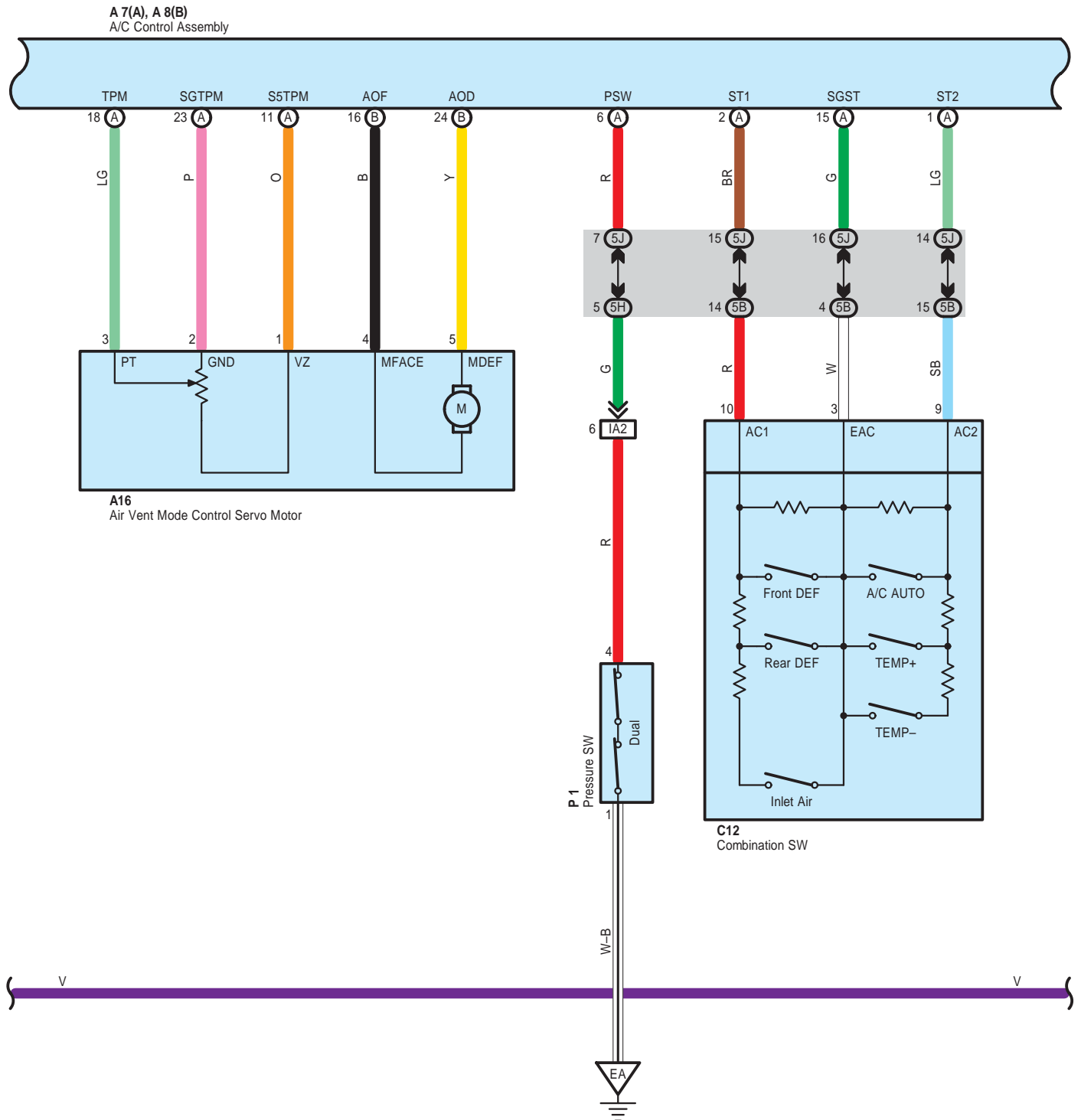
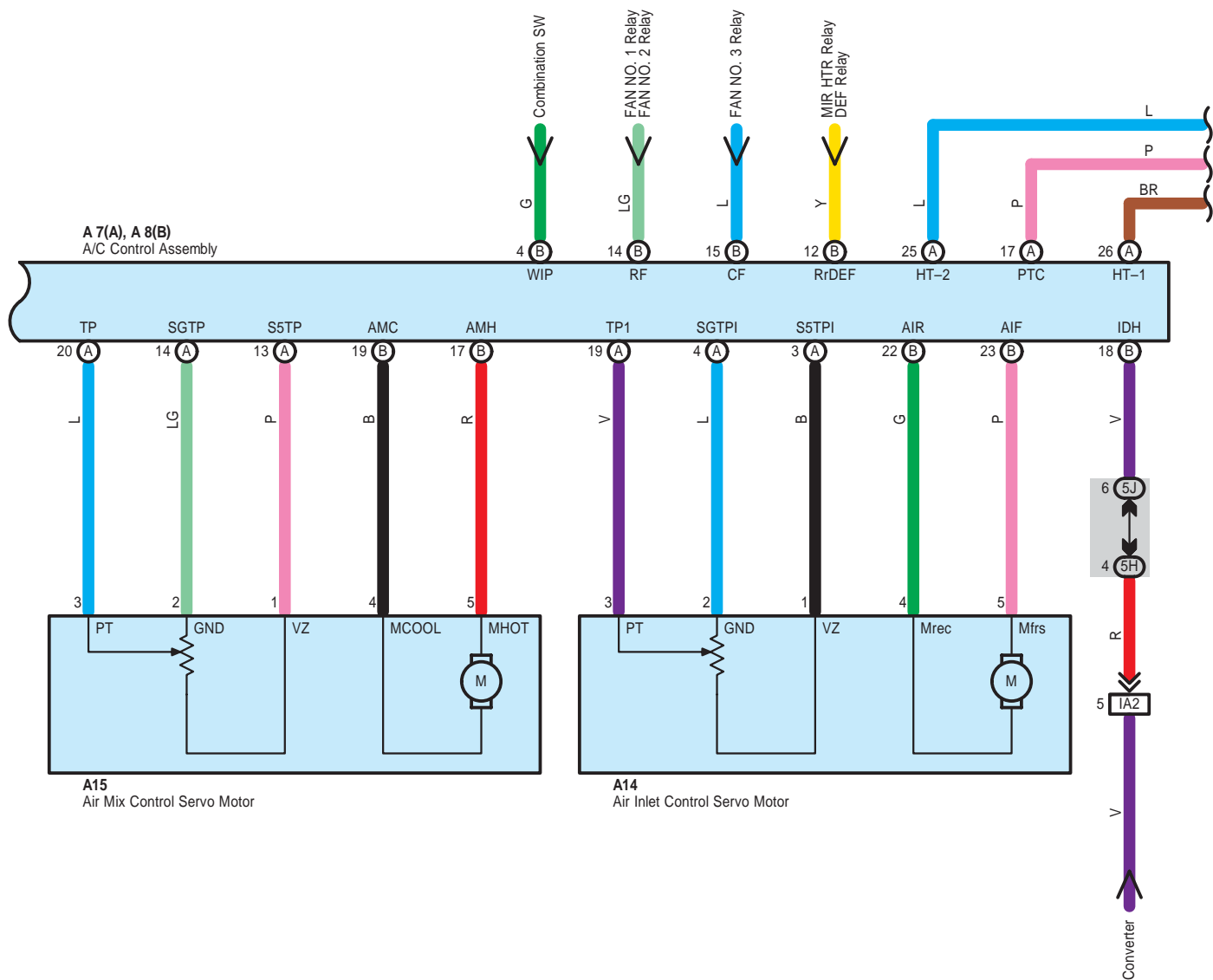


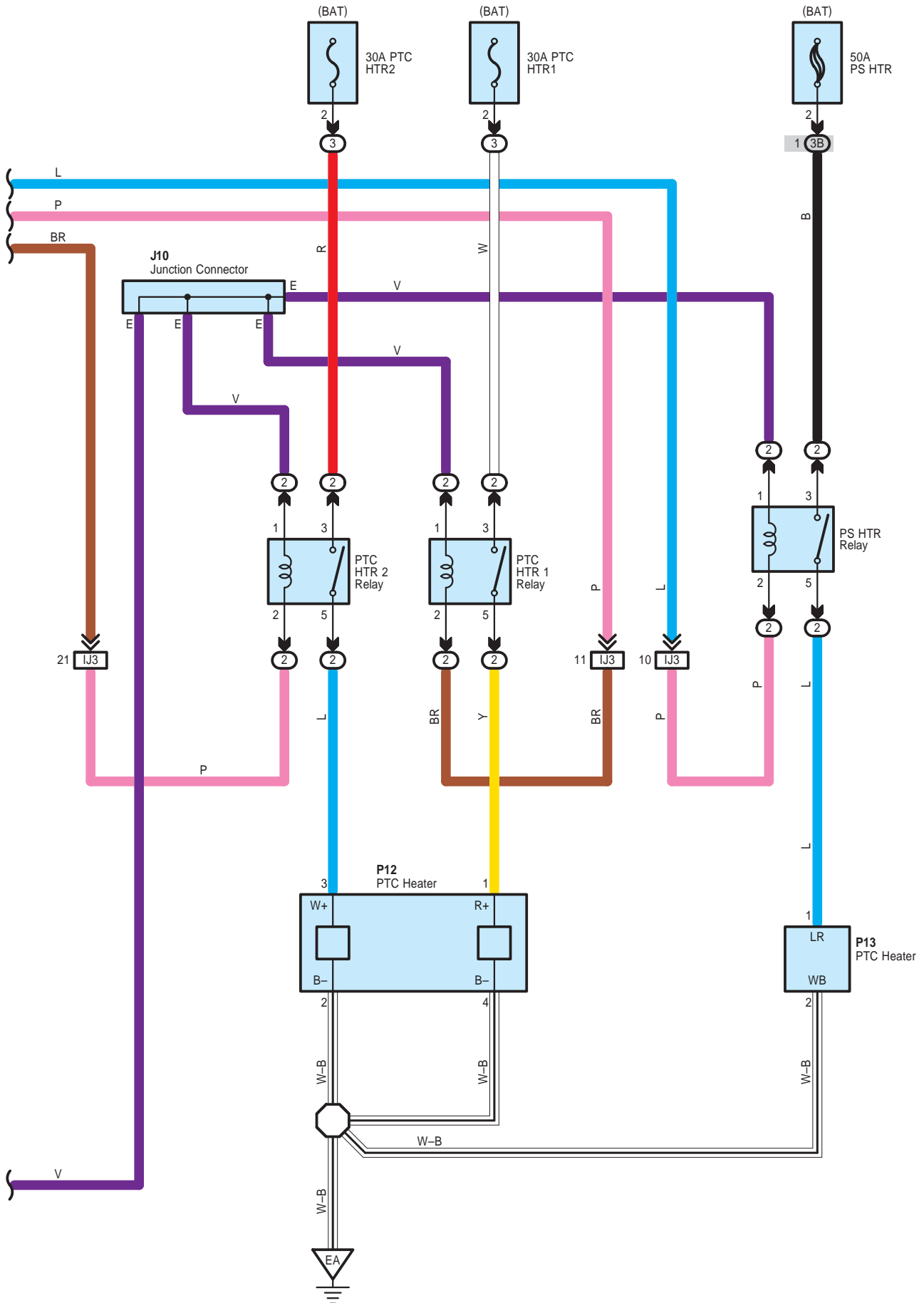
Air Conditioning











System Outline

Air conditioning system operates when SW of multi-display or that of steering wheel is turned on. Turning on the SW sends signal to A/C control assembly, running the air conditioning system.

1. Heater Blower Operation

Manual operation

When the blower speed is set to a certain level using the blower control SW, the A/C control assembly sends the signals to the blower control to control the blower motor speed.

Auto operation

When the auto SW is pushed, the A/C control assembly calculates necessary blower speed from setting of SWs and input of the sensors and sends the signals to the blower control to automatically control the blower motor speed.

2. Air Inlet Control Servo Motor Control

When the FRESH/RECIRC select SW is set to RECIRC, the air inlet control servo motor starts rotating to move the damper toward the RECIRC side. The damper position is detected by the TERMINAL TPI of the A/C control assembly. The motor continuously rotates until the damper reaches its stop position. When the FRESH/RECIRC select SW is set to FRESH, the air inlet control servo motor starts rotating to move the damper toward the FRESH side. The damper position is detected by the TERMINAL TPI of the A/C control assembly. The motor continuously rotates until the damper reaches its stop position.

In auto mode, A/C control assembly controls the damper to move to the best position for the conditions without operating the mode select SW.

3. Air Vent Mode Control Servo Motor Control

When the mode select SW is pushed, the ECU in the A/C control assembly activates the air vent mode control servo motor. The servo motor rotates to the position (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF) selected by using the mode select SW, and moves the damper.

In auto mode, A/C control assembly controls the damper to move to the best position for the conditions without operating the mode select SW.

4. Air Mix Control Servo Motor Control

Based on the set temperature by the temperature control SW, the ECU in the A/C control assembly sends a signal to the air mix control servo motor. This signal drives the motor to reach the temperature set by the temperature control SW, and moves the film damper.

5. Humidity Sensor Control

A/C control assembly detects humidity in passenger room when A/C is turned on, with humidity detecting function of A/C room temp. sensor and controls to dehumidify for comfortable condition

6. Air Conditioning Operation

A/C control assembly calculates target cooled temperature from information such as that of operating SWs, room temperature, humidity, ambient temperature and insolation to have target running speed of compressor assembly (Motor). The calculated control signal is sent to inverter to drive compressor assembly (Motor) (Electric motor) with control of inverter, resulting in operating A/C.

Air Conditioning

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A6	46	E1	46	J19	50
A7	A 48	E4	A 49	J24	50
A8	B 48	E5	B 49	J25	50
A9	48	E6	C 49	M13	50
A10	48	E7	D 49	P1	47
A11	48	G1	49	P6	51
A14	48	H14	A 49	P12	51
A15	48	H15	B 49	P13	51
A16	48	H16	C 49	S7	A 51
B2	48	I11	C 47	S8	B 51
B3	A 48	J6	50	S9	C 51
B4	B 48	J10	50	S10	D 51
B5	A 48	J12	50	S11	51
C4	F 46	J14	50	T4	51
C7	46	J15	50	T5	51
C10	49	J16	50	T11	51
C12	49	J17	50	W1	47
D1	49	J18	50		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	28	Engine Room R/B No.2 (Right Side of Reserve Tank)
3	22	Engine Room R/B (Engine Compartment Left)

**: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)	
1C			
1E	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)	
1G			
1J			
1K	31		
1L			
1M			
1N			
3B	23		Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3C			
3H	24		
4C	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)	
4D			
4F			
4H			
4I			
4K			
4L	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)	
5B			
5C			
5D			
5E			
5G			
5H			
5J			
5K			
5L			

**: Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)
IA2	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
IA3		
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)
IG2		
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)

**: Ground Points**

Code	See Page	Ground Points Location
EA	56	Right Side of the Fender Apron
EC	56	Engine Block
EF	56	Left Side of the Suspension Tower
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH
IJ	58	Instrument Panel Brace RH