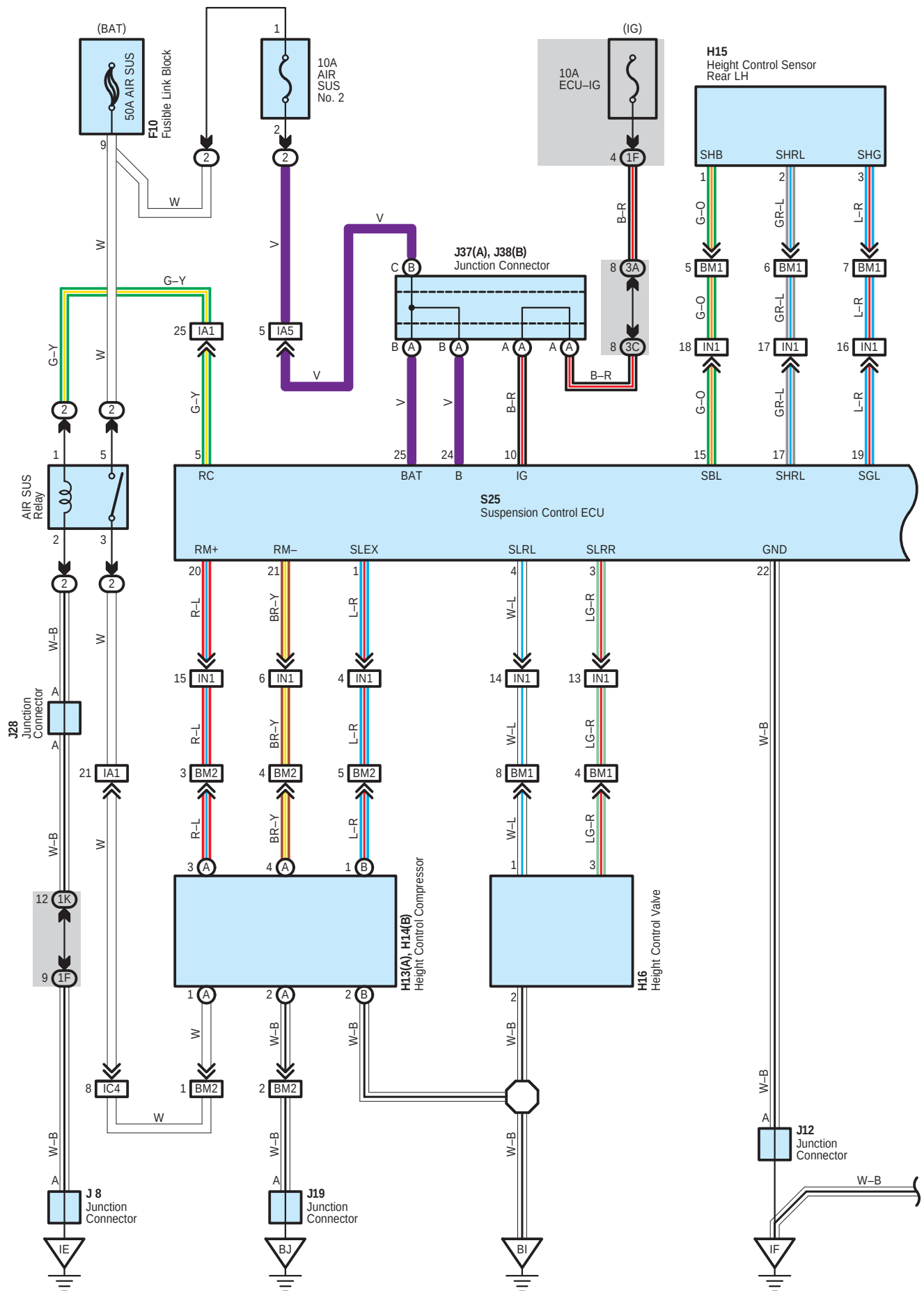
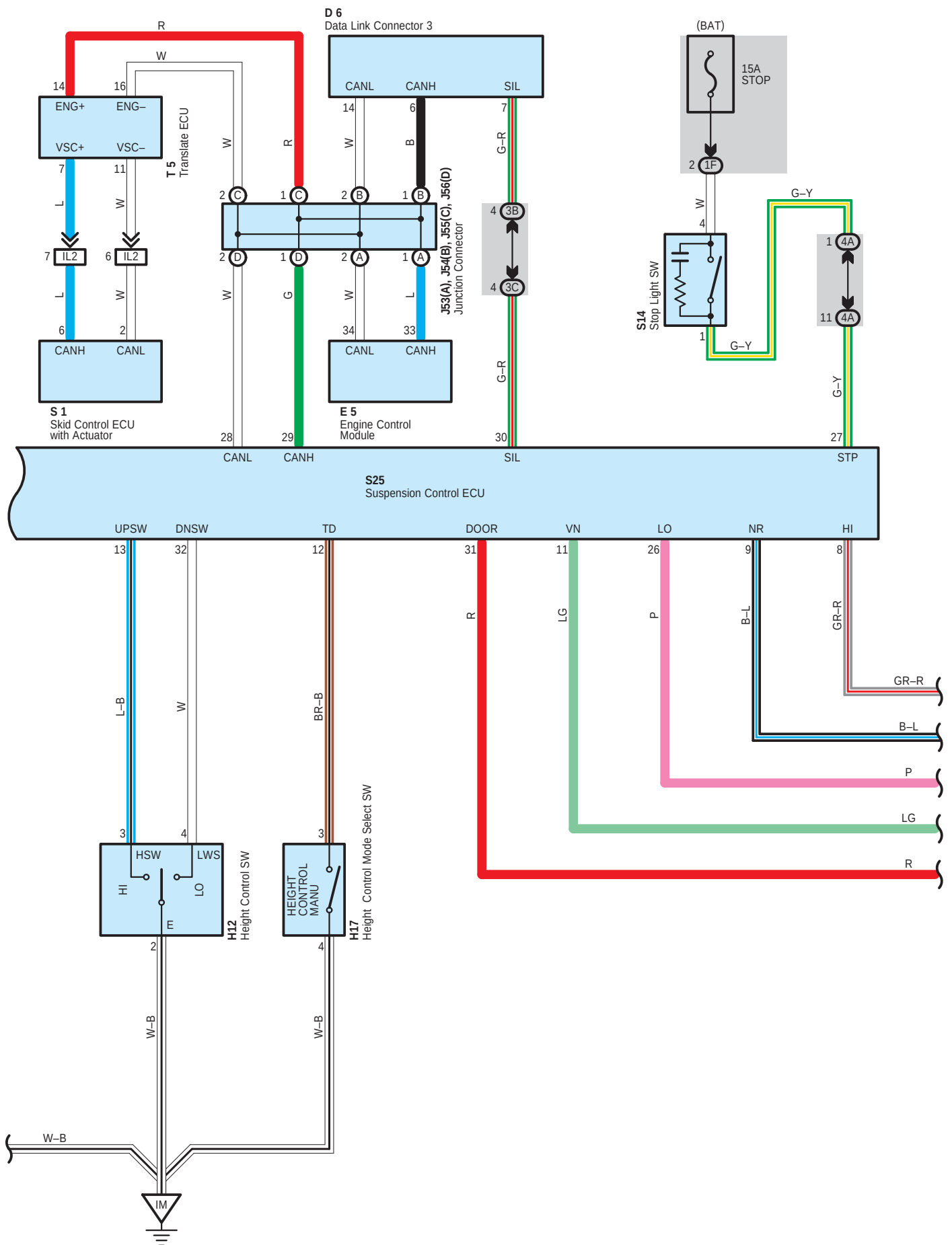
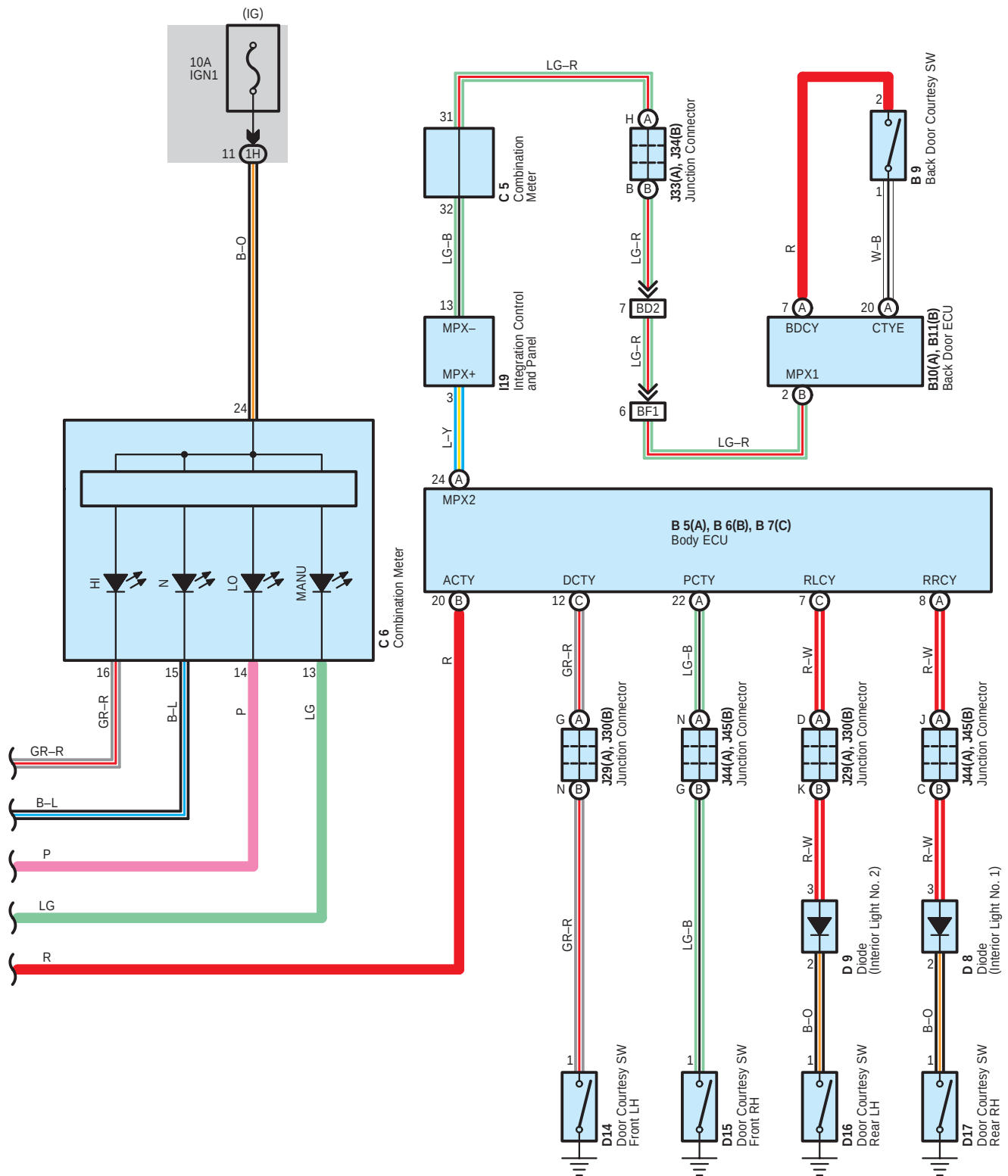


Electric Modulated Air Suspension





Electric Modulated Air Suspension



System Outline

- * The electric modulated air suspension with height control, is a system designed to maintain a constant ride height by means of an electro–pneumatic system in the rear suspension – to cope with change in load due to possible change in the number of people and/or the weight of cargo the vehicle has to carry. With three driver's–choice height–control switches on the console, the driver can set ride height to any one of the three different ride height modes (High, normal and low): "High mode" for rough terrain and "Low mode" for passenger to get on or get off, and for cargo to be loaded or unloaded.
- * This system has five basic controls as shown below:
- * Auto leveling control
This control maintains a constant rear vehicle ride height regardless of change in load due to possible change in the number of passengers and/or the weight of cargo the vehicle has to carry.
- * Ride height switchover control
This control switches over height mode to the mode selected by the height control switch.
 - * High mode (+ 40 mm / 1.6 in.)
 - * Low mode (– 30 mm / 1.2 in. : 4WD) (– 15 mm / 0.6 in. : 2WD)
- * Speed sensing control
Regardless of the initial height mode setting, "High mode" or "Low mode," this control automatically switches over vehicle height mode to the optimum "Normal mode":
 - * When the vehicle speed exceeds 30 km/h with height mode set to "High mode," or;
 - * When the vehicle speed exceeds 12 km/h with height mode set to "Low mode."
- * Subsequent control after ignition switch off
After the ignition switch is turned OFF, this control lowers the rear vehicle ride height to offset rear vehicle ride height elevation due to passengers getting off, etc.
- * Height control OFF control
Pressing the height control mode select SW turns the system OFF (MANU indicator light off), making it possible for the vehicle to be jacked up or towed.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B5	A 42	E5	43	J33	A 44
B6	B 42	F10	22, 40	J34	B 44
B7	C 42	H12	43	J37	A 44
B9	46	H13	A 46	J38	B 44
B10	A 46	H14	B 46	J44	A 44
B11	B 46	H15	46	J45	B 44
C5	42	H16	46	J53	A 44
C6	42	H17	43	J54	B 44
D6	43	I19	43	J55	C 44
D8	46	J8	44	J56	D 44
D9	46	J12	44	S1	41
D14	46	J19	46	S14	45
D15	46	J28	41	S25	45
D16	46	J29	A 44	T5	45
D17	46	J30	B 44		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	33	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
1K	33	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
3A	36	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3B		
3C		
4A	38	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)

Electric Modulated Air Suspension

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	51	Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH)
IA5		
IC4	51	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
IL2	51	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
IN1	51	Floor No.2 Wire and Cowl Wire (Rear Console)
BD2	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)
BM1	52	Floor No.2 Wire and Frame Wire (Left Side of No.7 Crossmember)
BM2		

 : Ground Points

Code	See Page	Ground Points Location
IE	51	Cowl Side Panel LH
IF	51	Instrument Panel Brace LH
IM	51	Rear Console
BI	52	Rear Side No.4 Crossmember of Side Rail LH
BJ	52	Quarter Panel LH