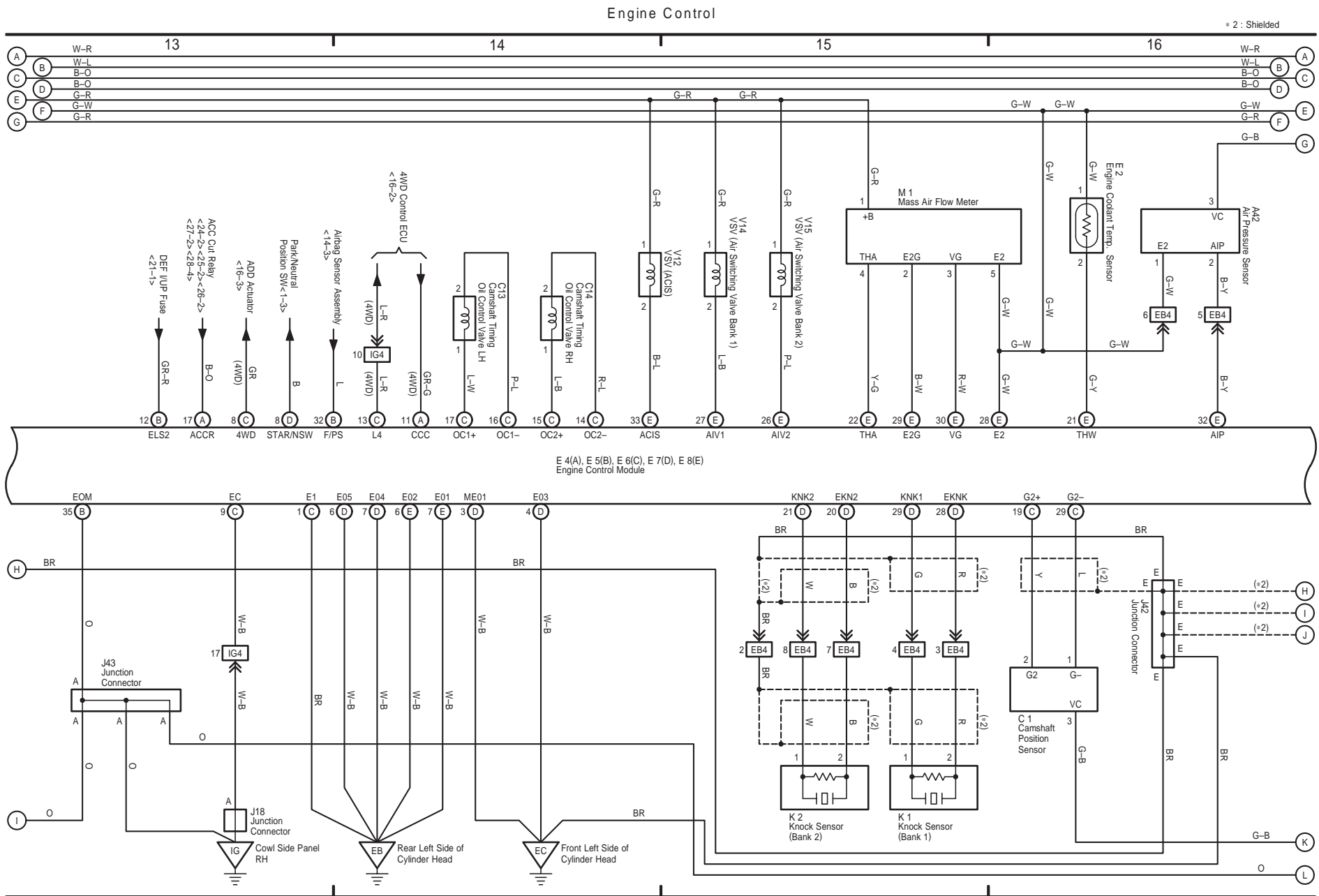
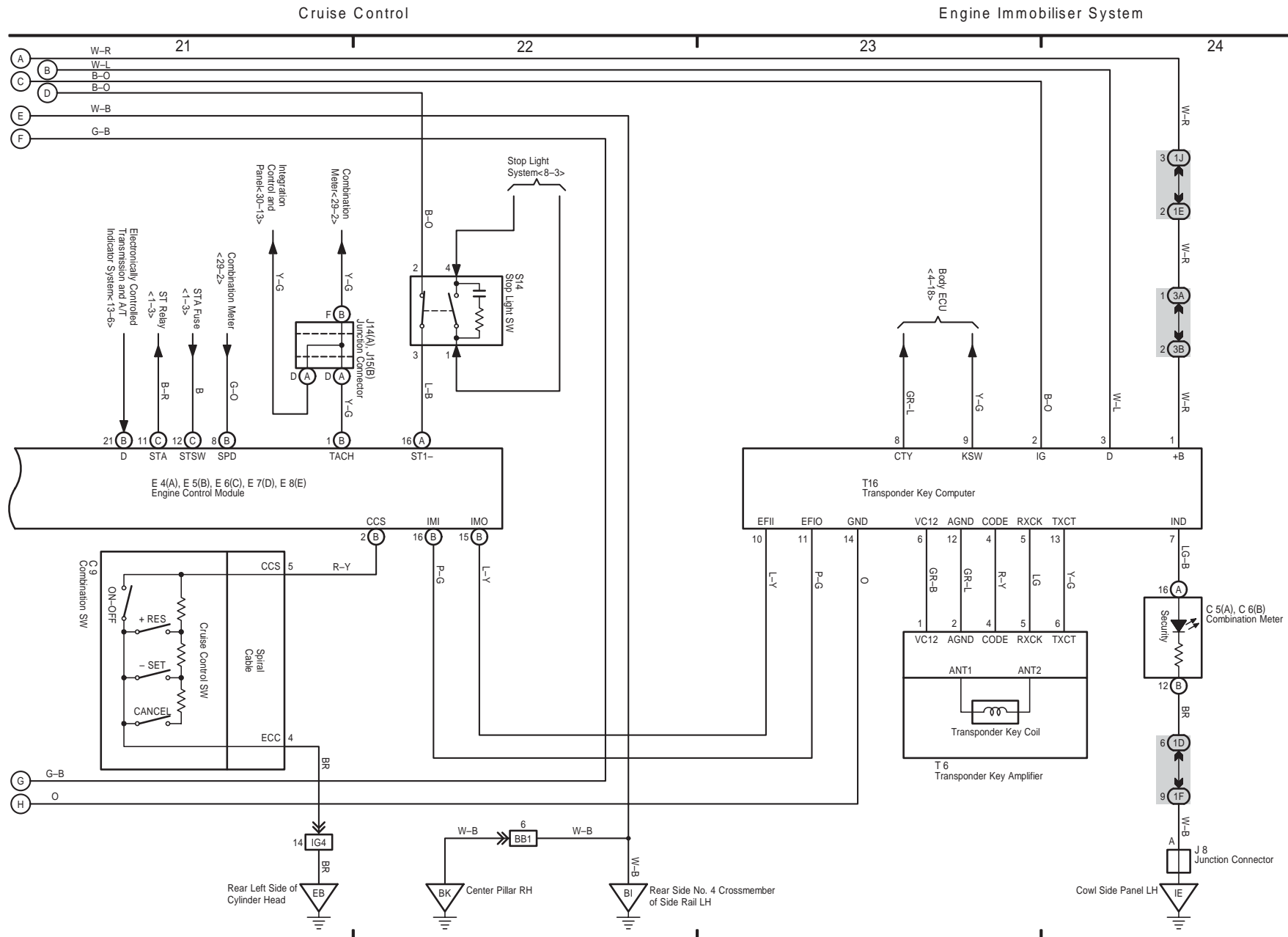


2006 SEQUOIA ELECTRICAL WIRING DIAGRAM SYSTEM CIRCUITS

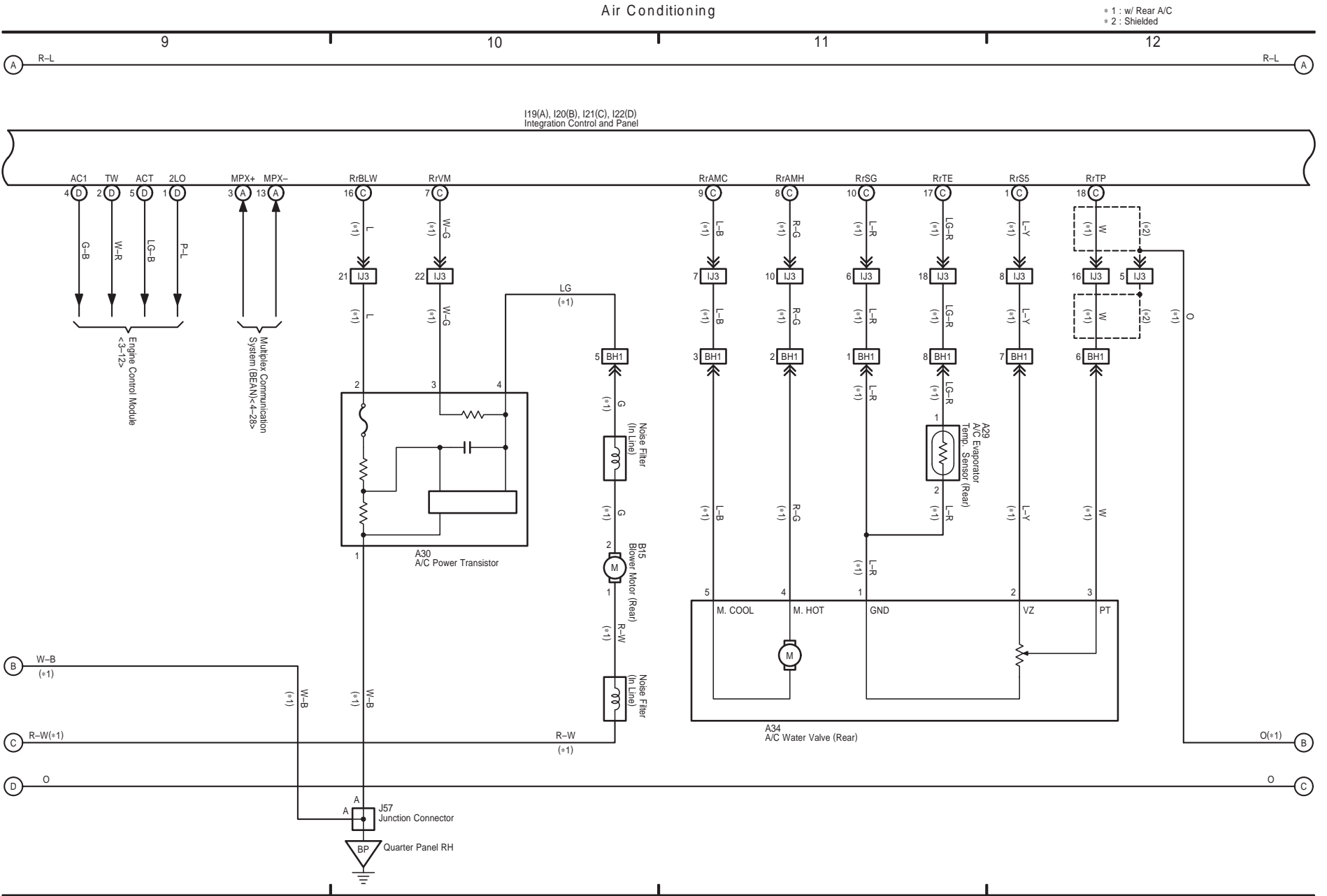
	Page
ABS	194
Accessory Meter	224
Air Conditioning	290
Audio System (10 Speaker)	278
Audio System (10 Speaker w/ Navigation)	266
Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System)	258
Audio System (10 Speaker w/ Rear Seat Entertainment System)	270
Audio System (6 Speaker)	282
Automatic Glare-Resistant EC Mirror	232
Automatic Light Control	144
Back-Up Light	110
Charging	68
Cigarette Lighter	228
Combination Meter	284
Cruise Control	190
Door Lock Control	160
Electric Modulated Air Suspension	212
Electronically Controlled Transmission and A/T Indicator	184
Engine Control	70
Engine Immobiliser System	84
Front Fog Light (w/ Daytime Running Light)	88
Front Fog Light (w/o Daytime Running Light)	92
Front Wiper and Washer	178
Garage Door Opener	224
Headlight (w/ Daytime Running Light)	88
Headlight (w/o Daytime Running Light)	92
Horn	234
Ignition	64
Illumination	100
Interior Light	148
Key Reminder	146
Light Auto Turn Off System	140
Mirror Heater	256
Multi Mode 4WD	206
Multiplex Communication System (BEAN)	118
Multiplex Communication System (BEAN Bus)	114
Multiplex Communication System (CAN Bus)	116
Navigation System (w/ Rear Seat Entertainment System)	258
Navigation System (w/o Rear Seat Entertainment System)	266
Power Outlet (115V)	230
Power Outlet (12V)	228
Power Seat (Driver's Seat w/ Driving Position Memory)	246
Power Seat (Driver's Seat w/o Driving Position Memory)	250
Power Seat (Front Passenger's Seat)	252
Power Source	58
Power Window	154

	Page
Rear Window Defogger	256
Rear Wiper and Washer	180
Remote Control Mirror (w/ Driving Position Memory)	238
Remote Control Mirror (w/o Driving Position Memory)	244
Seat Belt Warning	146
Seat Heater	254
Sliding Roof	236
SRS	217
Starting	62
Stop Light	112
Taillight	96
Theft Deterrent	160
Tire Pressure Warning System	202
TRAC	194
Trailer Towing	106
Turn Signal and Hazard Warning Light	104
VSC	194
Wireless Door Lock Control	168

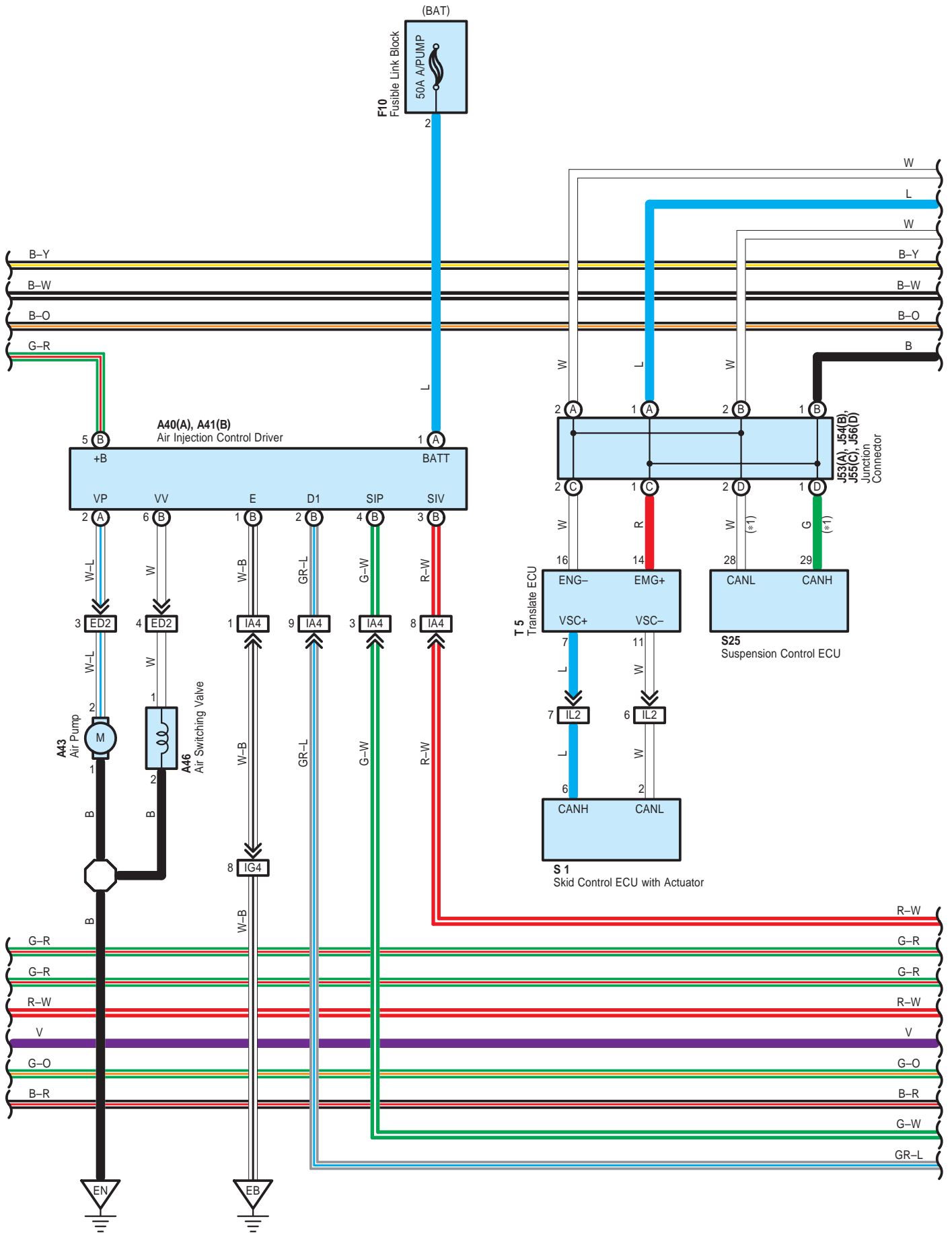




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30 SEQUOIA (Cont' d)



Headlight and Front Fog Light with Daytime Running Light

System Outline

Daytime Running Light Operation

When the engine is started, the generator signal is input from the combination meter to TERMINAL (A) 24 of the body ECU via the integration control and panel. At this time, if the parking brake pedal is depressed (Parking brake SW ON), the body ECU is not activated, and the daytime running light system does not operate.

When the parking brake pedal is released (Parking brake SW OFF), a signal is input into TERMINAL (A) 3 of the body ECU. This activates the body ECU and the headlight turns on.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
B5	A	42	F2	40		J4	41	
B6	B	42	G2	40		J5	41	
B7	C	42	H5	40		J8	44	
C5	A	42	H6	40		J18	44	
C6	B	42	I19	43		J50	41	
C8		42	J1	41		P2	45	
D1		40	J2	41				
F1		40	J3	41				

○ : 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)
1B	33	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1D		
1F		
1G		
1H		
1J	33	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2C	29	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2G		
4C	38	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4D		

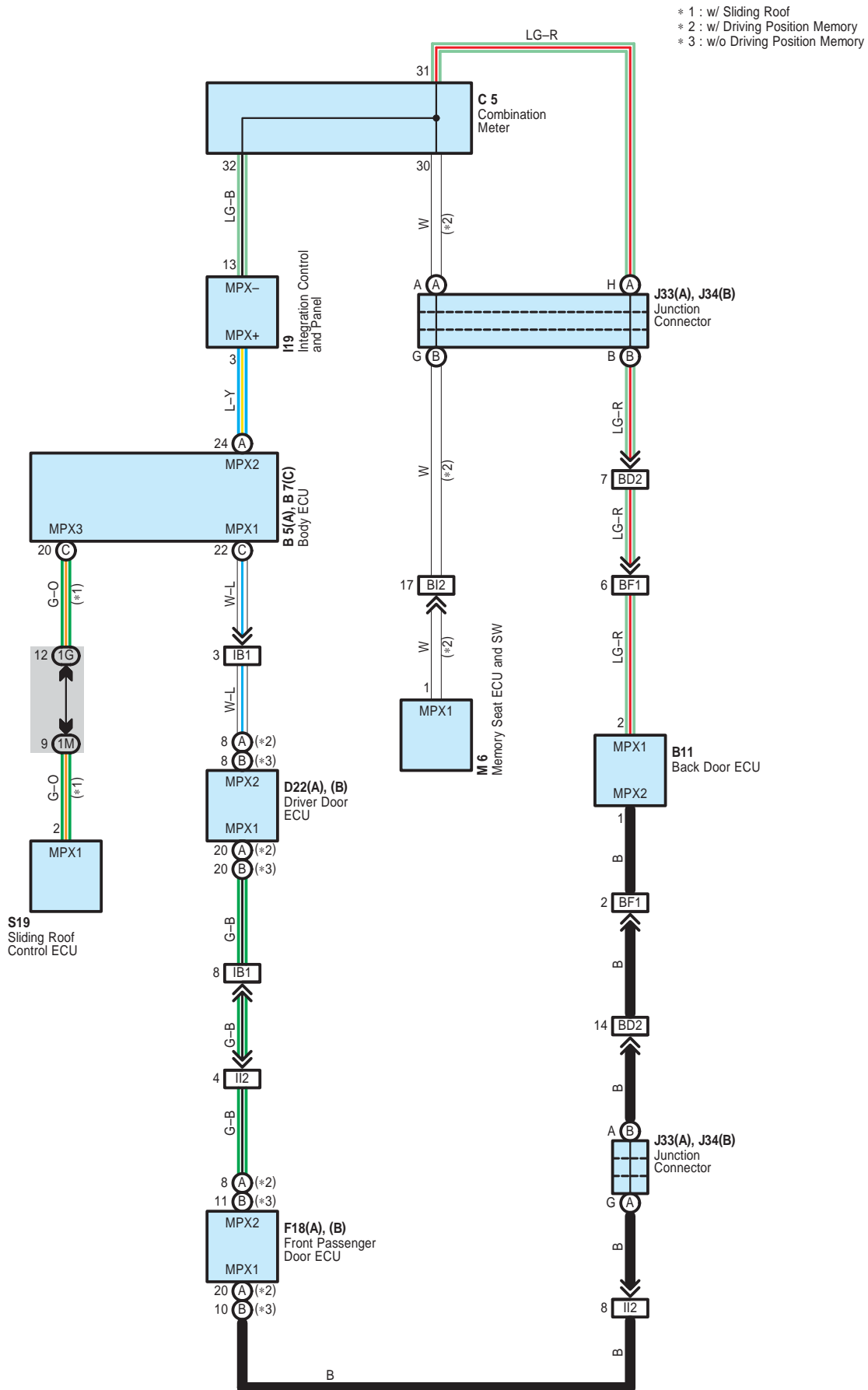
□ : Connector Joining Wire Harness and Wire Harness

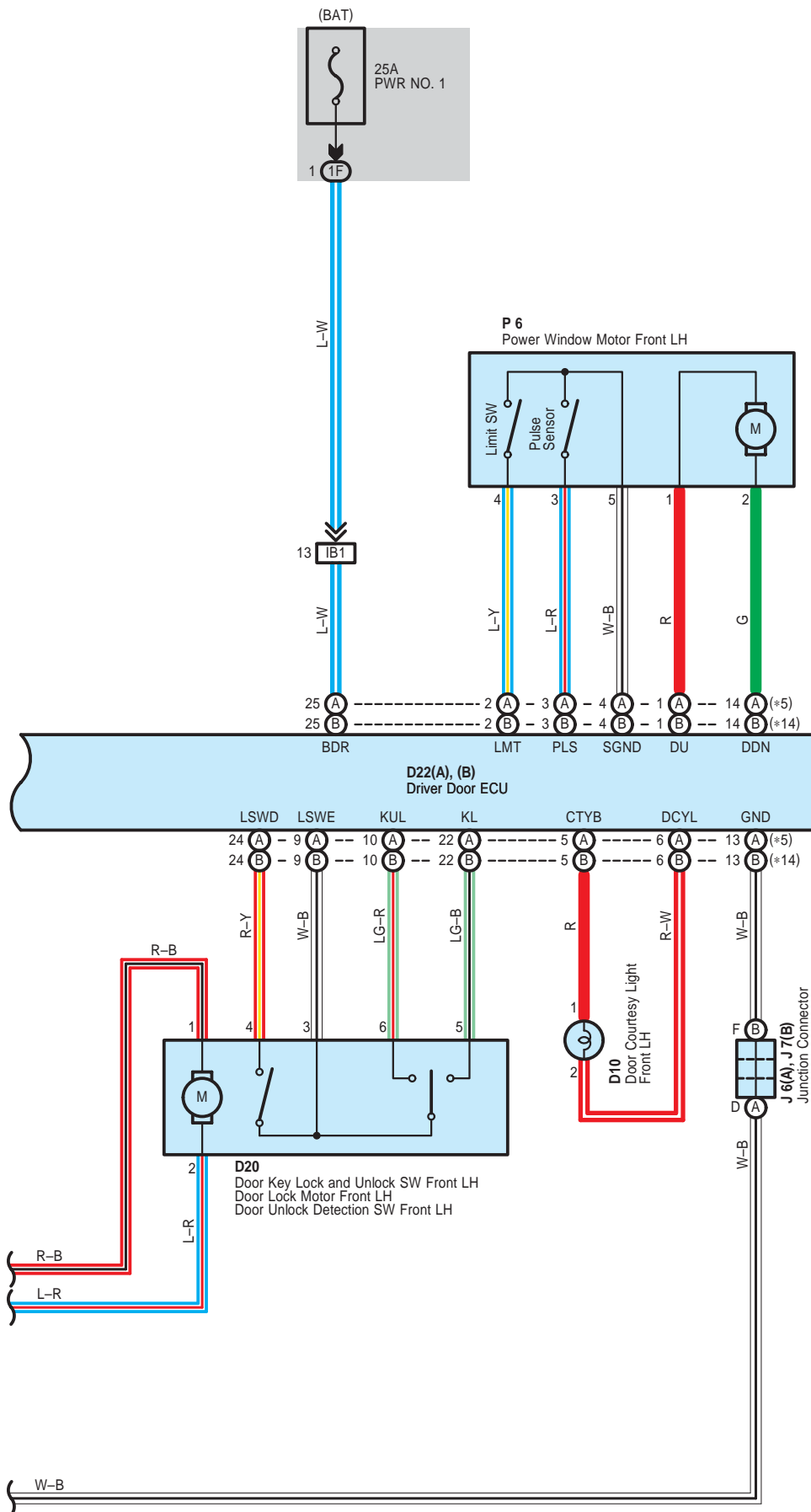
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ED2	50	Engine No.2 Wire and Engine Room Main Wire (Under the Engine Room J/B)
IA1	51	Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH)
IL1	51	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)

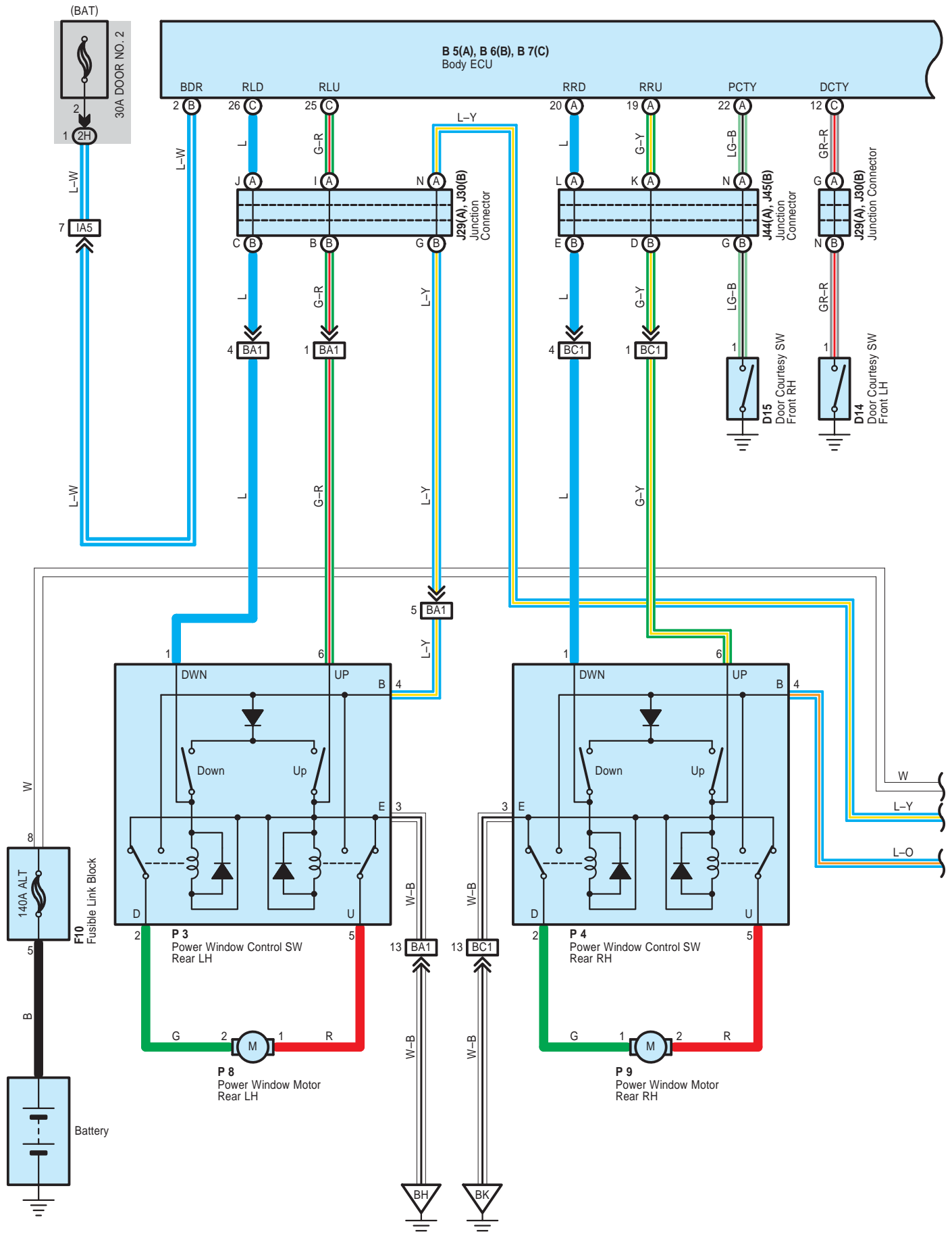
▽ : Ground Points

Code	See Page	Ground Points Location
EA	50	Radiator Side Support RH
ED	50	Front Fender Apron LH
IE	51	Cowl Side Panel LH
IG	51	Cowl Side Panel RH

Multiplex Communication System – BEAN Bus







Wireless Door Lock Control



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	33	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1J	33	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
1L		
1M	33	Roof Wire and Instrument Panel J/B (Lower Finish Panel)
2C	29	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2H		
3A	36	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3C		
3D		
3E		



: 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		
IB1	51	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC4	51	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
II2	51	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IN1	51	Floor No.2 Wire and Cowl Wire (Rear Console)
BA1	52	Rear Door No.2 Wire and Floor No.2 Wire (Center Pillar LH)
BC1	52	Rear Door No.1 Wire and Floor No.1 Wire (Center Pillar RH)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)



: Ground Points

Code	See Page	Ground Points Location
IE	51	Cowl Side Panel LH
IF	51	Instrument Panel Brace LH
IG	51	Cowl Side Panel RH
BH	52	Center Pillar LH
BJ	52	Quarter Panel LH
BK	52	Center Pillar RH

System Outline

Previous automatic transmissions have selected each gear shift using mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock-up hydraulic pressure. The electronically controlled transmission, however, electrically controls the line pressure, throttle pressure, lock-up pressure and accumulator pressure etc. through the solenoid valve. The electronically controlled transmission is a system which precisely controls gear shift timing and lock-up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection for each gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

1. Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine control module from the engine coolant temp. sensor and the vehicle speed signal from vehicle speed sensor is input to TERMINAL SP2+ of the engine control module. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINALS VTA1 and VTA2 of the engine control module as throttle angle signal.

Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. Line Hydraulic Pressure Control

The engine control module adjusts the line hydraulic pressure to the optimal level by controlling TERMINAL SLT+ of the module according to the engine torque data. This realizes the smooth gear shifting.

3. High Response Gear Shifting Control

The engine control module performs the high response engine torque up control to control the ignition-timing lag as well as opening the electronic throttle when shifting down. By doing this, the gear shifting is performed in a short period of time. Moreover, the engine control module uses the orifice switching control, which optimizes the speed of applying and reducing the hydraulic pressure. And it realizes the fine shifting condition by applying and reducing hydraulic pressure slowly when the gear shifting shock is important and quickly when the high response is required.

4. Clutch Hydraulic Pressure Control

The engine control module controls the clutch operation in the optimal timing and with the best hydraulic pressure according to the engine torque data and the number of the clutch revolution

5. Lock-Up and Flexible Lock-Up Control

The engine control module carries out the lock-up control by controlling the TERMINAL SLU+ of the module according to the shift position, vehicle speed, throttle opening degree and running conditions. The engine control module also steadily keeps applying the lock-up clutch a delicate slippage to improve the transmission efficiency (Fuel efficiency) of the torque converter.

6. Stop Light SW Circuit

If the brake pedal is depressed (Stop light SW on) when driving in lock-up condition, a signal is input to TERMINAL STP of the engine control module. The engine control module operates and cuts the current to the solenoid to release lock-up.

7. AI-Shift Control

The engine control module judges whether the road is downslope or upslope by detecting the throttle opening degree or the vehicle's speed. Moreover it can expect the winding roads by detecting the turning condition of the vehicle. The engine control module keeps unnecessary shifting up from the fourth gear from operating and carries out the automatic shifting down to the third gear in order to control the vehicle running according to the road conditions. The engine control module also reads the driver's intention during driving from his (her) accelerating operation and the running conditions of the vehicle. As a result of that, ideal shifting patters for each driver are automatically selected without any switching operations.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A37		42	E8	E	43	J53	A	44
C5	A	42	J5		41	J54	B	44
C6	B	42	J8		44	O1		41
D6		43	J12		44	O3		45
E1		40	J16		44	P1		41
E2		40	J17		44	S14		45
E4	A	43	J18		44	T14		41
E5	B	43	J43		44	V1		41
E6	C	43	J51	A	44	V2		41
E7	D	43	J52	B	44			

Multi Mode 4WD

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A10		40	I19	A	43	J51	A	44
C5	A	42	I22	D	43	J52	B	44
C6	B	42	J8		44	P1		41
E4	A	43	J17		44	T4		41
E6	C	43	J18		44	T5		45
F22	A	43	J41		44	V1		41
F23	B	43	J43		44			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	33	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1H		
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)
4B		

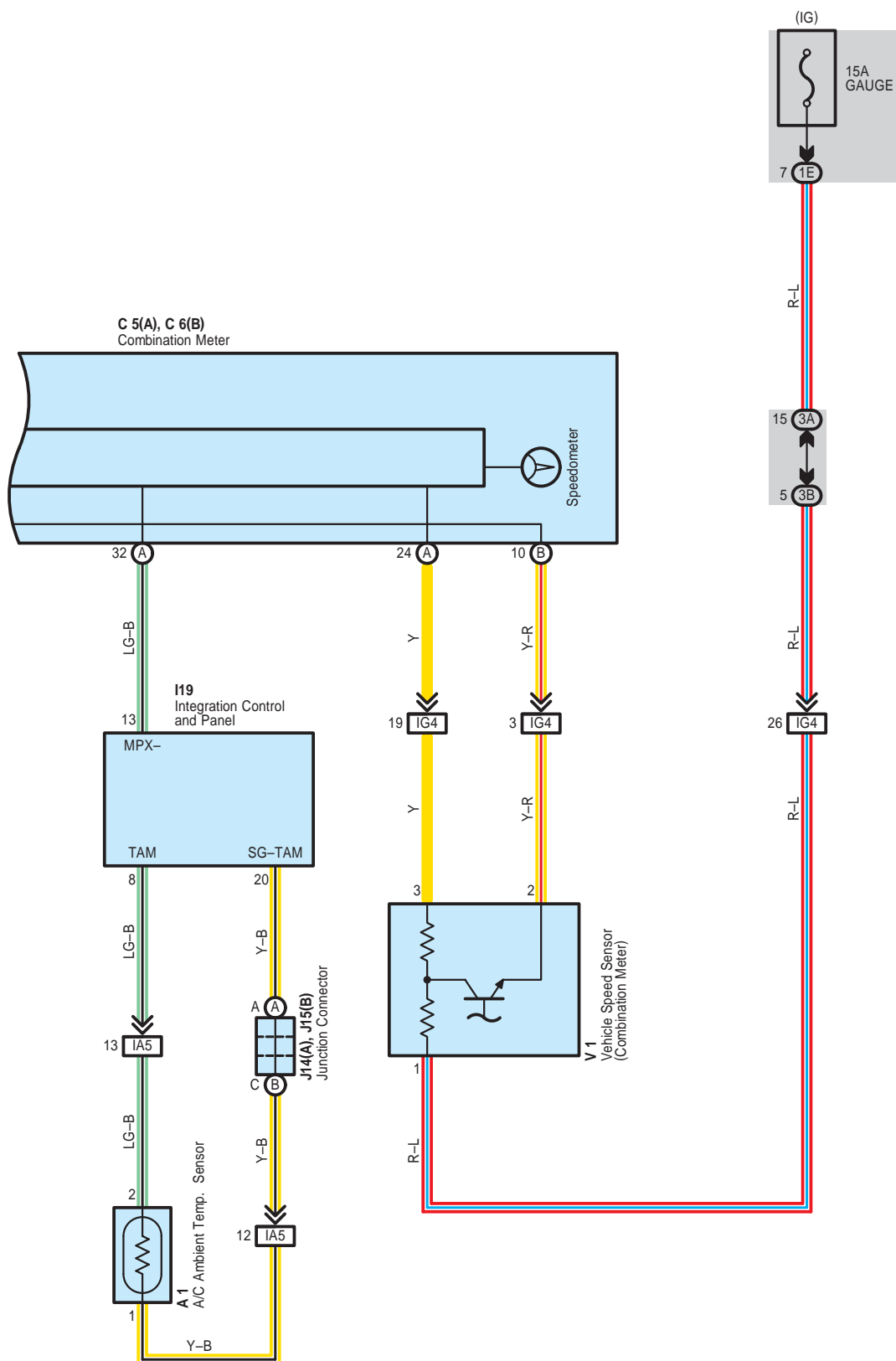
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB5	50	Engine No.2 Wire and Engine Wire (Near the Starter)
EC1	50	Engine No.2 Wire and Differential Wire (Near the Transmission)
IG1	51	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IG4		

: Ground Points

Code	See Page	Ground Points Location
IE	51	Cowl Side Panel LH
IG	51	Cowl Side Panel RH
IO	51	Instrument Panel Brace RH

* 1 : w/o Sliding Roof, Rear Seat Entertainment System and Rear Seat Audio System
 * 2 : w/ Sliding Roof, Rear Seat Entertainment System or Rear Seat Audio System



Remote Control Mirror with Driving Position Memory

