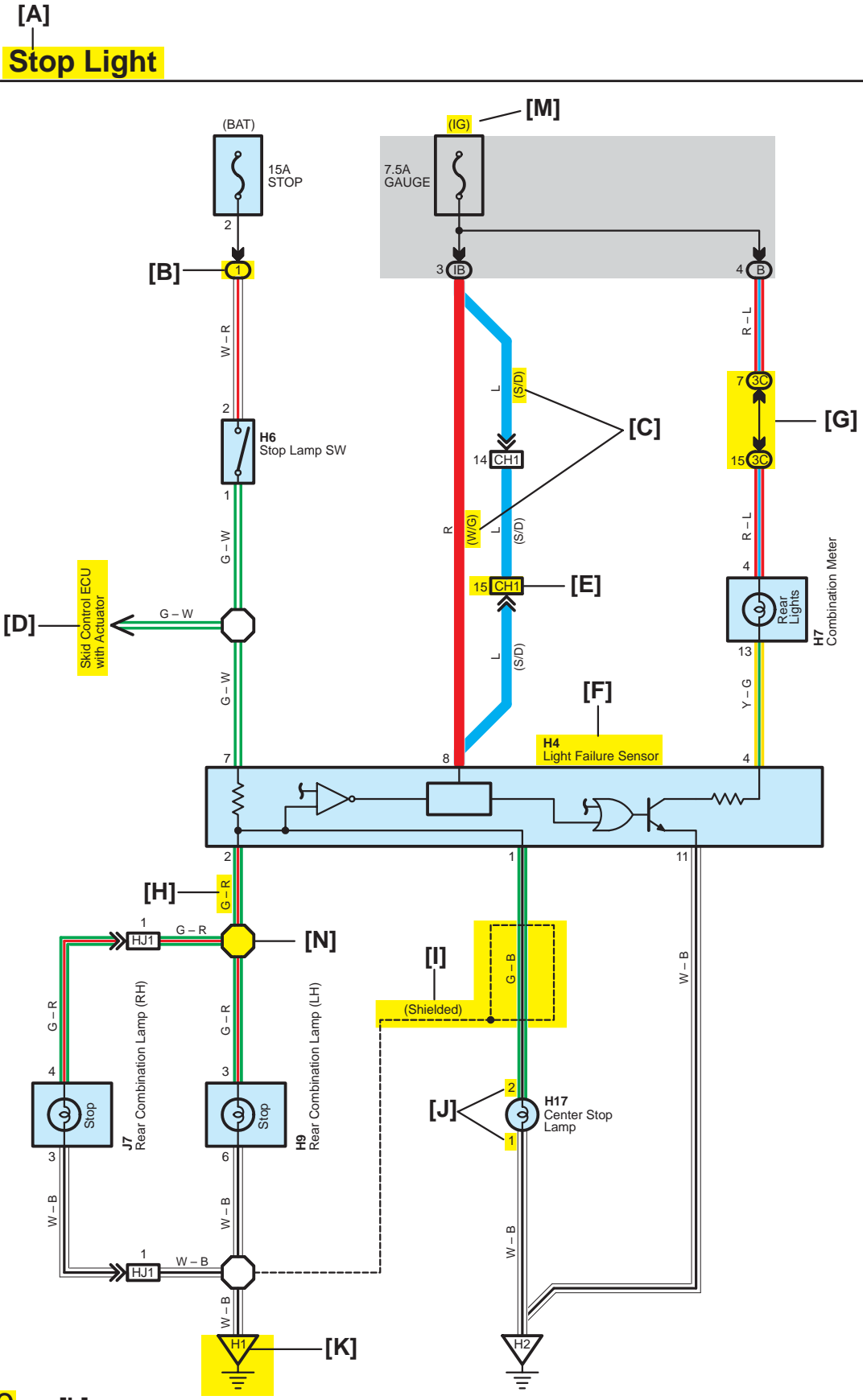


2007 YARIS ELECTRICAL WIRING DIAGRAM

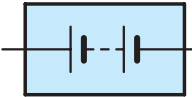

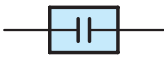






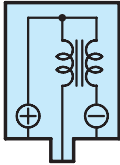




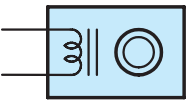


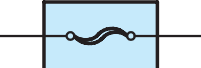

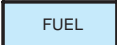

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ABBREVIATIONS	D	17
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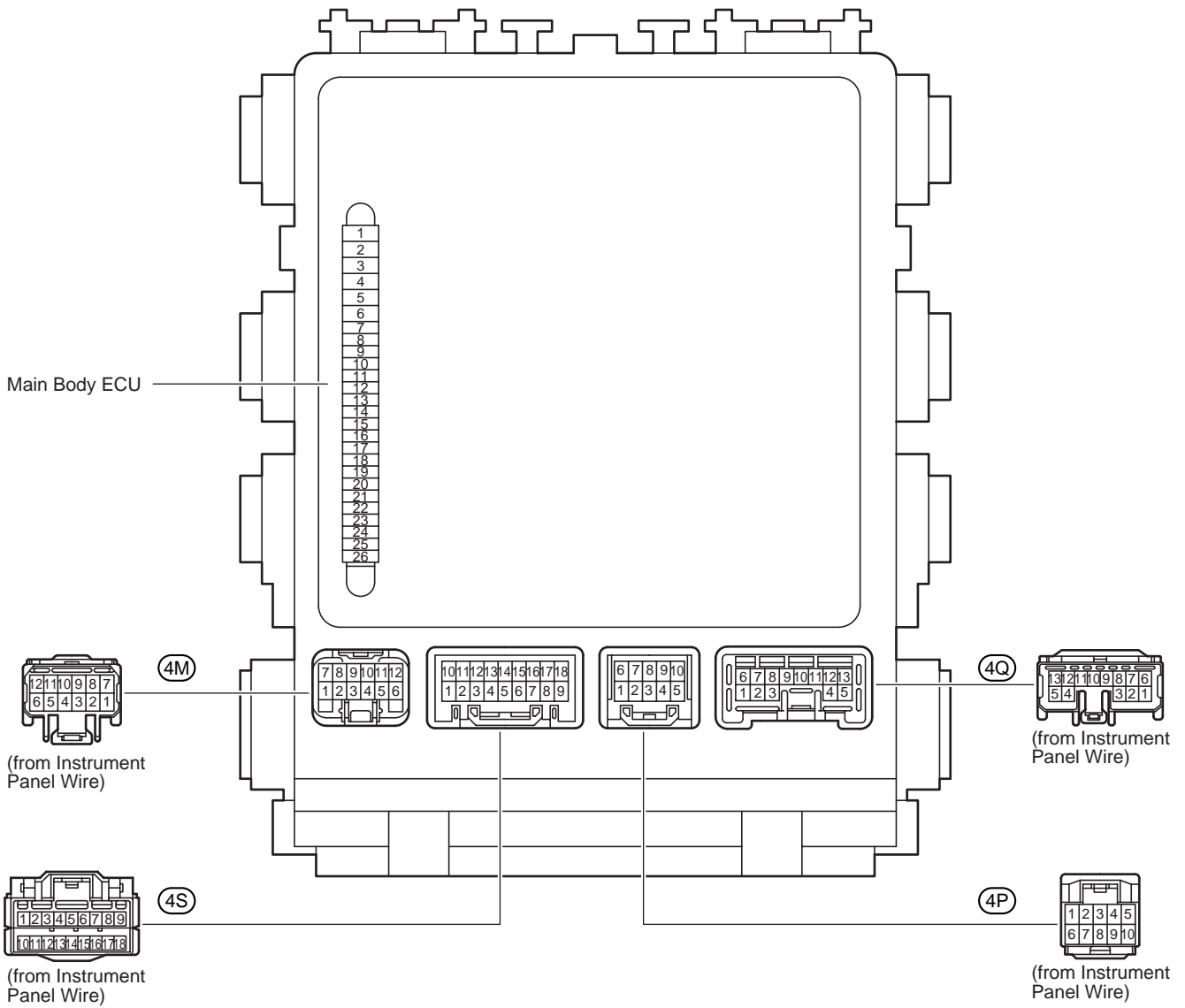
B HOW TO USE THIS MANUAL

* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



E GLOSSARY OF TERMS AND SYMBOLS

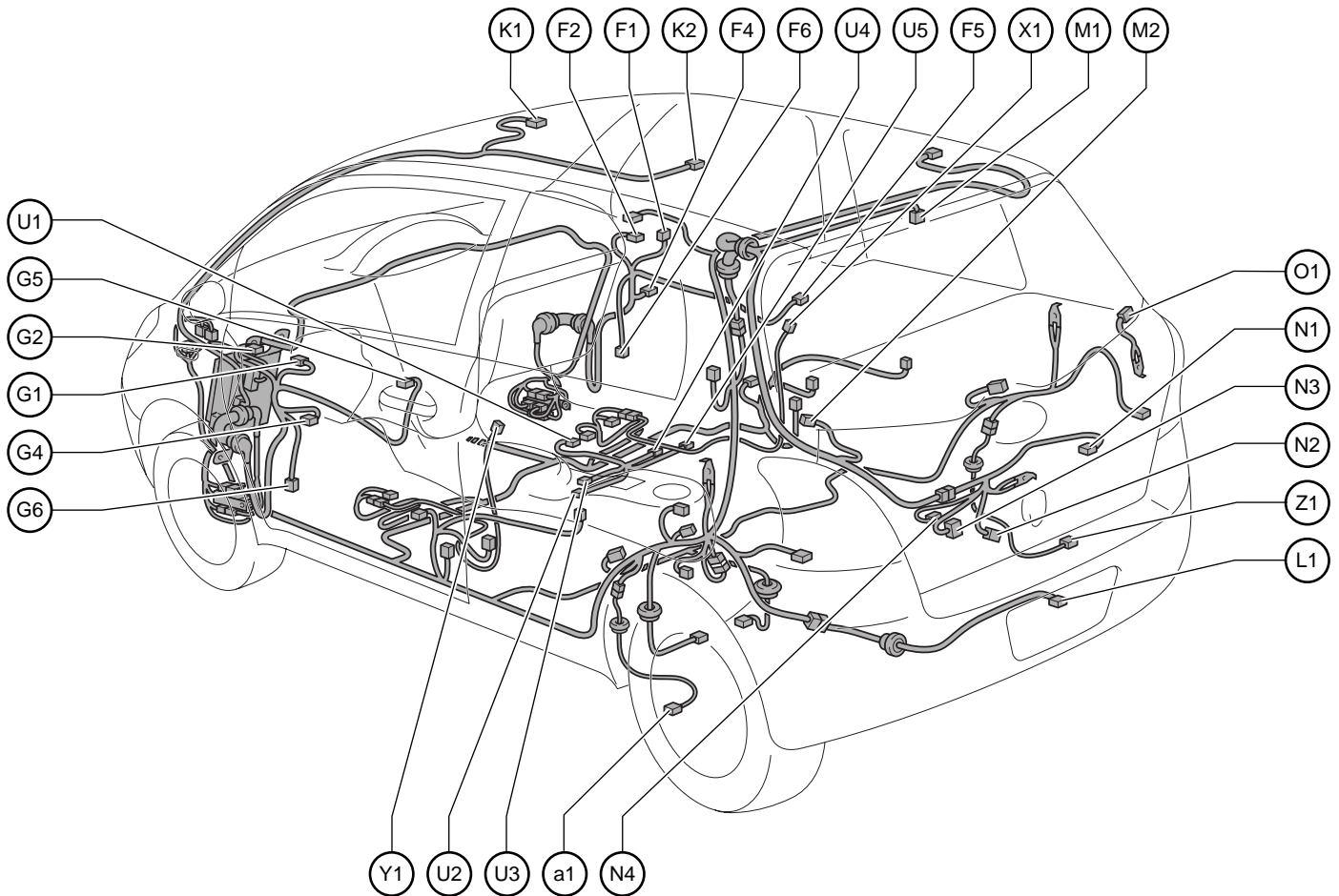
 <p>BATTERY Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.</p>	 <p>GROUND The point at which wiring attaches to the Body, thereby providing a return path for an electrical circuit; without a ground, current cannot flow.</p>
 <p>CAPACITOR (Condenser) A small holding unit for temporary storage of electrical voltage.</p>	<p>HEADLIGHTS Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament</p> <p>1. SINGLE FILAMENT </p> <p>2. DOUBLE FILAMENT </p>
 <p>CIGARETTE LIGHTER An electric resistance heating element.</p>	
 <p>CIRCUIT BREAKER Basically a reusable fuse, a circuit breaker will heat and open if too much current flows through it. Some units automatically reset when cool, others must be manually reset.</p>	 <p>HORN An electric device which sounds a loud audible signal.</p>
 <p>DIODE A semiconductor which allows current flow in only one direction.</p>	 <p>IGNITION COIL Converts low-voltage DC current into high-voltage ignition current for firing the spark plugs.</p>
 <p>DIODE, ZENER A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.</p>	 <p>LIGHT Current flow through a filament causes the filament to heat up and emit light.</p>
 <p>PHOTODIODE The photodiode is a semiconductor which controls the current flow according to the amount of light.</p>	 <p>LED (LIGHT EMITTING DIODE) Upon current flow, these diodes emit light without producing the heat of a comparable light.</p>
 <p>DISTRIBUTOR, IIA Channels high-voltage current from the ignition coil to the individual spark plugs.</p>	 <p>METER, ANALOG Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.</p>
 <p>FUSE A thin metal strip which burns through when too much current flows through it, thereby stopping current flow and protecting a circuit from damage.</p>  <p>FUSIBLE LINK (for Medium Current Fuse) A heavy-gauge wire placed in high amperage circuits which burns through on overloads, thereby protecting the circuit. The numbers indicate the crosssection surface area of the wires.</p>  <p>(for High Current Fuse or Fusible Link)</p>	 <p>METER, DIGITAL Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.</p>
	 <p>MOTOR A power unit which converts electrical energy into mechanical energy, especially rotary motion.</p>



G ELECTRICAL WIRING ROUTING

Position of Parts in Body

[3-Door]



- F 1 Power Window SW (Front RH)
- F 2 Outer Rear View Mirror (RH)
- F 4 Power Window Regulator Motor (Front RH)
- F 5 Door Lock Assembly (Front Passenger's Side)
- F 6 Speaker (Front Door RH)

- G 1 Power Window Master SW
- G 2 Outer Rear View Mirror (LH)
- G 4 Power Window Regulator Motor (Front LH)
- G 5 Door Lock Assembly (Driver's Side)
- G 6 Speaker (Front Door LH)

- K 1 Map Lamp
- K 2 Room Lamp (Center)

- L 1 License Plate Lamp

- M 1 Center Stop Lamp
- M 2 Rear Window Defogger

- N 1 Rear Wiper Motor Assembly
- N 2 Back Door Courtesy SW
- N 3 Back Door Lock Assembly
- N 4 Back Door Position SW

- O 1 Rear Window Defogger

- U 1 Occupant Classification ECU
- U 2 Occupant Classification Sensor (Front LH)
- U 3 Occupant Classification Sensor (Rear LH)
- U 4 Occupant Classification Sensor (Front RH)
- U 5 Occupant Classification Sensor (Rear RH)

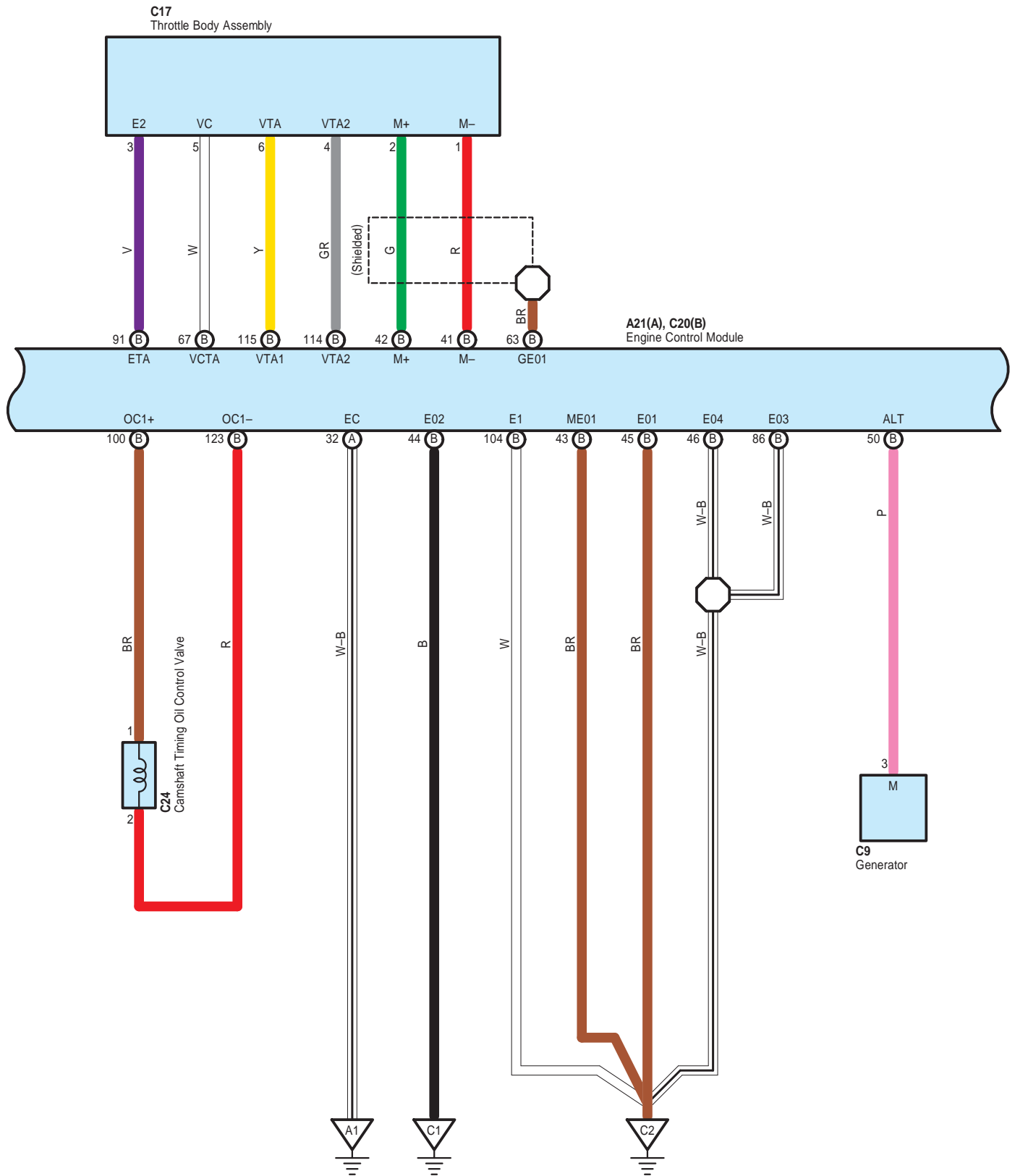
- X 1 Side Airbag Squib (RH)

- Y 1 Side Airbag Squib (LH)

- Z 1 Speed Sensor (Rear RH)

- a 1 Speed Sensor (Rear LH)

Engine Control



System Outline

The cruise control system is a constant vehicle speed controller in which control of the switch on the instrument panel makes it possible to automatically adjust the opening of the engine throttle valve without depressing of the accel pedal.

1. Set Operation

When the CRUISE SW is turned on and the SET SW is pushed with the vehicle speed within the set limit (Approx. 40 km/h, 25 mph to 200 km/h, 124 mph), a signal is input to TERMINAL CCS of the engine control module, and the vehicle speed at the time the SET SW is released is memorized in the ECU as the set speed.

2. Set Speed Control

During cruise control driving, the ECU compares the set speed memorized in the ECU with the actual vehicle speed input into TERMINAL SPD of the engine control module from the combination meter, and controls the throttle body assembly to maintain the set speed.

When the actual speed is lower than the set speed, the ECU causes the current to the throttle control motor to flow from TERMINAL M+ of the engine control module to TERMINAL 2 of the throttle body assembly to TERMINAL 1 to TERMINAL M- of the engine control module. As a result, the motor in the throttle control motor is rotated to open the throttle valve to increase the vehicle speed. When the actual driving speed is higher than the set speed, the current to the throttle body assembly flows from TERMINAL M- of the ECU to TERMINAL 1 of the throttle control motor to TERMINAL 2 to TERMINAL M+ of the engine control module.

This causes the motor in the throttle body assembly to rotate to close the throttle valve to decrease the vehicle speed.

3. Coast Control

During cruise control driving, while the -SET SW is on, the throttle control motor is rotated to close the throttle valve and decrease the driving speed. The vehicle speed when the -SET SW is turned off is memorized, and the vehicle continues at the new set speed.

4. Accel Control

During cruise control driving, while the +RES SW is turned on, the throttle control motor is rotated to open the throttle valve and increase the driving speed.

The vehicle speed when the +RES SW is turned off is memorized and the vehicle continues at the new set speed.

5. Resume Control

If the vehicle speed is approximately 40 km/h (25 mph) or above after canceling the set speed with the CANCEL SW, pushing the +RES SW will cause the vehicle to resume the speed set before the cancellation.

6. Manual Cancel Mechanism

If any of the following signals is input during cruise control travelling, the cruise control is cancelled.

- * Depressing the clutch pedal (Cruise control clutch SW off). "Signal is not input to TERMINAL D of the ECU" (M/T)
- * Placing the shift lever to positions except "D" position (Park/Neutral position SW except "D" position) (A/T)
- * Pushing the CANCEL SW (CANCEL SW on). "Signal input to TERMINAL CCS of the ECU"
- * Pushing the CRUISE SW off "signal input to TERMINAL CCS of the ECU".
- * Depressing the brake pedal (Stop light SW on)

7. Tap-Up Control Function

When the difference between the actual vehicle speed and the set speed is less than 5 km/h (3 mph), the set speed can be increased 1.6 km/h (1 mph) each time by operating the +RES SW quickly within 0.6 seconds.

8. Tap-Down Control Function

When the difference between the actual vehicle speed and the set speed is less than 5 km/h (3 mph), the set speed can be lowered 1.6 km/h (1 mph) each time by operating the -SET SW quickly within 0.6 seconds.

9. Auto Cancel Function

A) If any of the following operating conditions occurs during cruise control operation, the set speed is erased and the cruise control is released, (CRUISE SW turns off).

When this occurs, the ignition SW must be turned off once before the CRUISE SW will turn on.

- * When abnormality is found in the stop light SW input circuit.
- * When abnormality is found in the cancel circuit.

B) If any of the following operating conditions occurs during cruise control operation, the set speed is erased and the cruise control is released. (CRUISE SW turn off).

When this occurs, the cancel state is cleared as the CRUISE SW will turn on again.

- * When abnormality is found in electronic throttle parts.
- * Open circuit in the stop light SW.
- * Momentary interruption of vehicle speed signal.
- * Short circuit in the stop light SW.

Interior Light

: Parts Location

Code		See Page	Code		See Page	Code		See Page		
D1	A	51 (H/B)	J1	59 (4-Door)		J30	59 (4-Door)			
		53 (S/D)		55 (5-Door)			J32	55 (5-Door)		
D19		51 (H/B)	J2	57 (3-Door)		J33		59 (4-Door)		
		53 (S/D)		59 (4-Door)			55 (5-Door)			
D33	A	51 (H/B)	J12		55 (5-Door)		59 (4-Door)			
		53 (S/D)			57 (3-Door)		J42		59 (4-Door)	
D38	A	51 (H/B)	J28		A	55 (5-Door)		K1	54 (5-Door)	
		53 (S/D)				57 (3-Door)			56 (3-Door)	
D39	B	51 (H/B)	J29		B	59 (4-Door)		K2	58 (4-Door)	
		53 (S/D)				55 (5-Door)			54 (5-Door)	
D42		51 (H/B)	J29		B	57 (3-Door)		56 (3-Door)		
		53 (S/D)				59 (4-Door)		58 (4-Door)		
D76	C	53 (S/D)	J30		55 (5-Door)		N2	54 (5-Door)		
J1		55 (5-Door)			57 (3-Door)			56 (3-Door)		
				57 (3-Door)						

: Relay Blocks

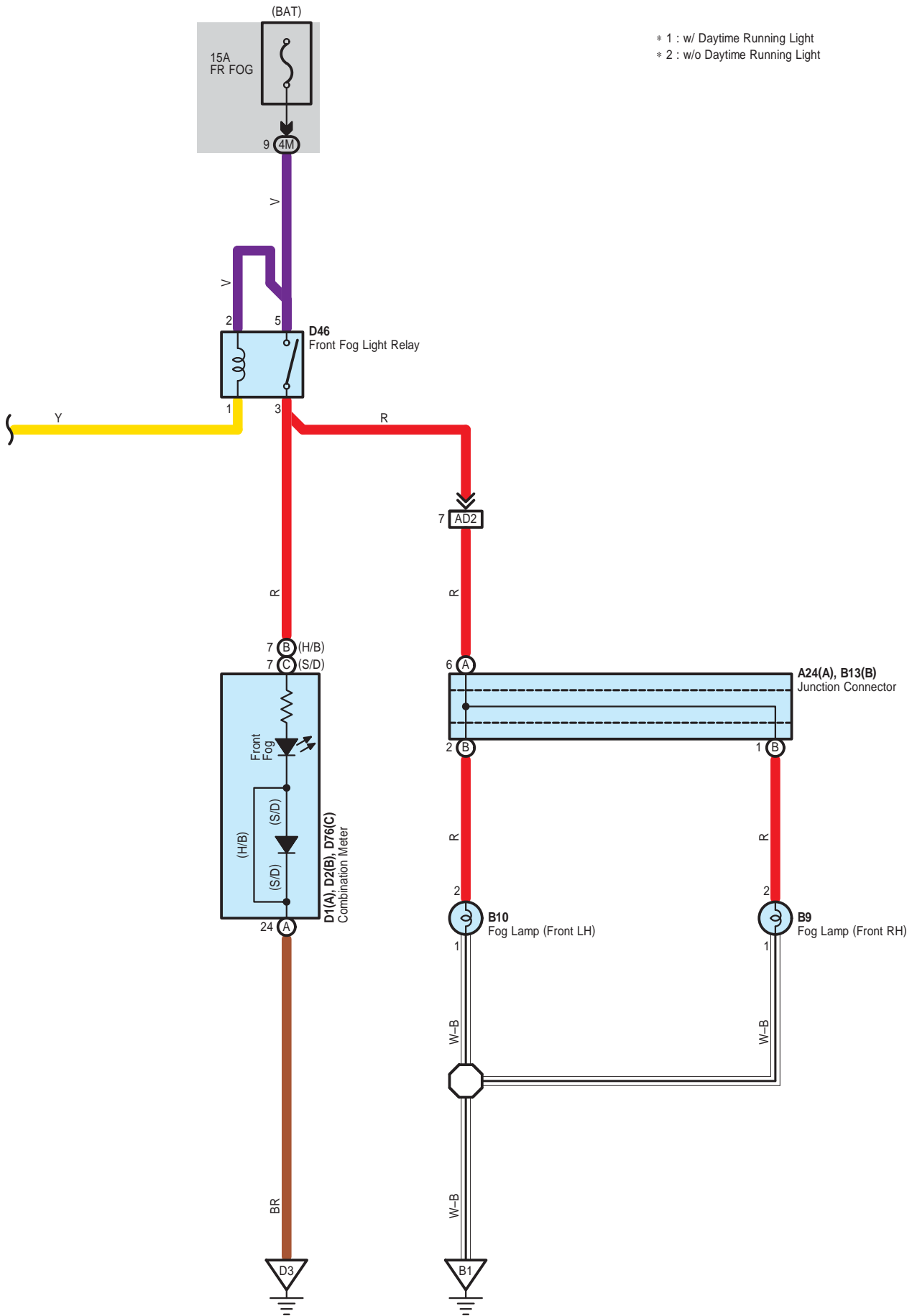
Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4A	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
4B	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
4D	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
4E		
4K	30	Roof Wire and Instrument Panel J/B (Lower Finish Panel)
4M	31	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
4P		
4S		
5A	38	Instrument Panel Wire and J/B No.5 (Left Kick Panel)

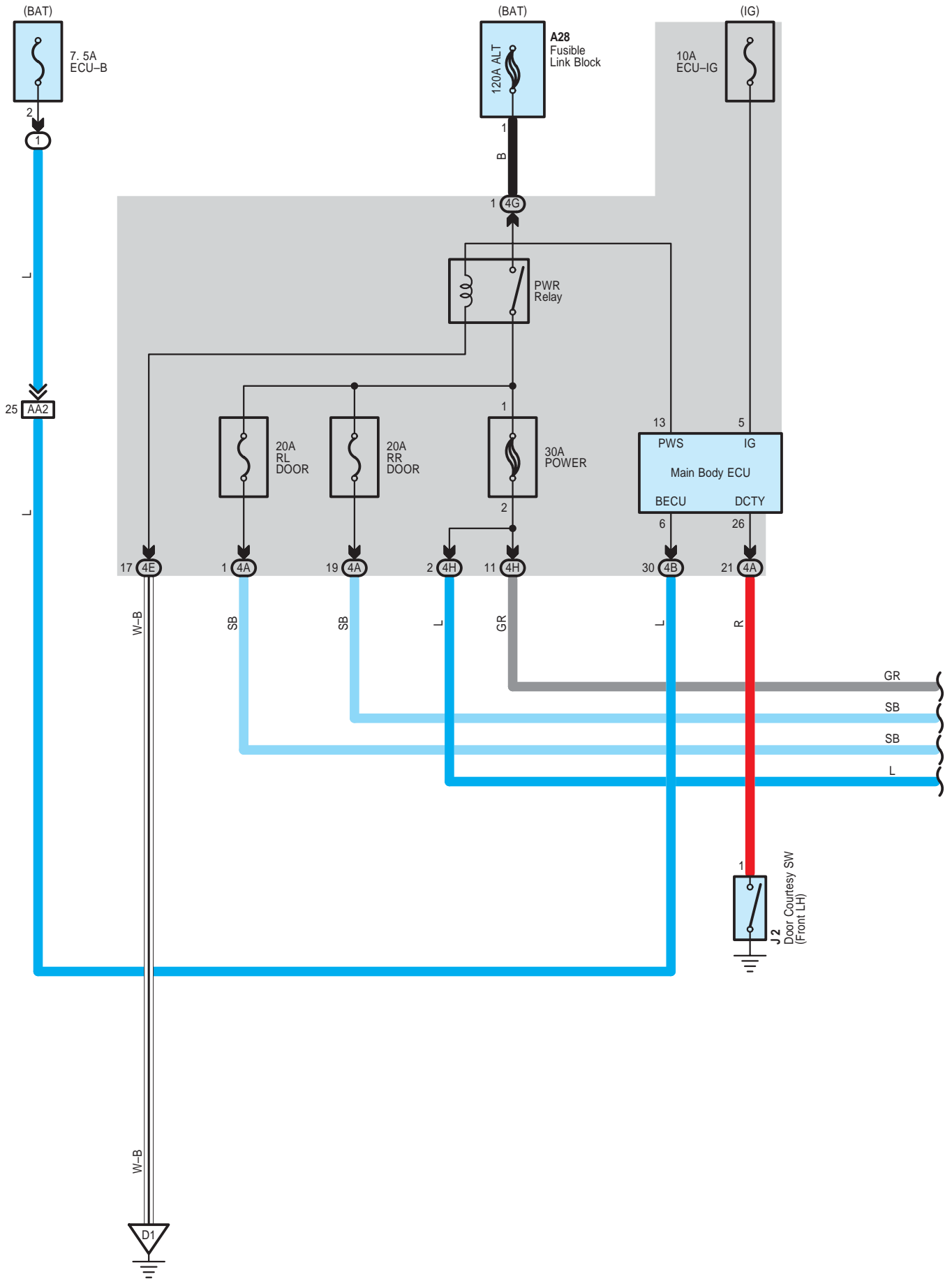
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AA2	62 (H/B)	Engine Room Main Wire and Engine Room Main Wire (Instrument Panel Left)
	63 (S/D)	
JD1	62 (H/B)	Floor Wire and Instrument Panel Wire (Instrument Panel Left)
	63 (S/D)	
JD2	63 (S/D)	
MJ1	64 (5-Door)	Back Door No.1 Wire and Floor Wire (Left Rear Quarter Panel)
	65 (3-Door)	
MN1	64 (5-Door)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Panel Center)
	65 (3-Door)	

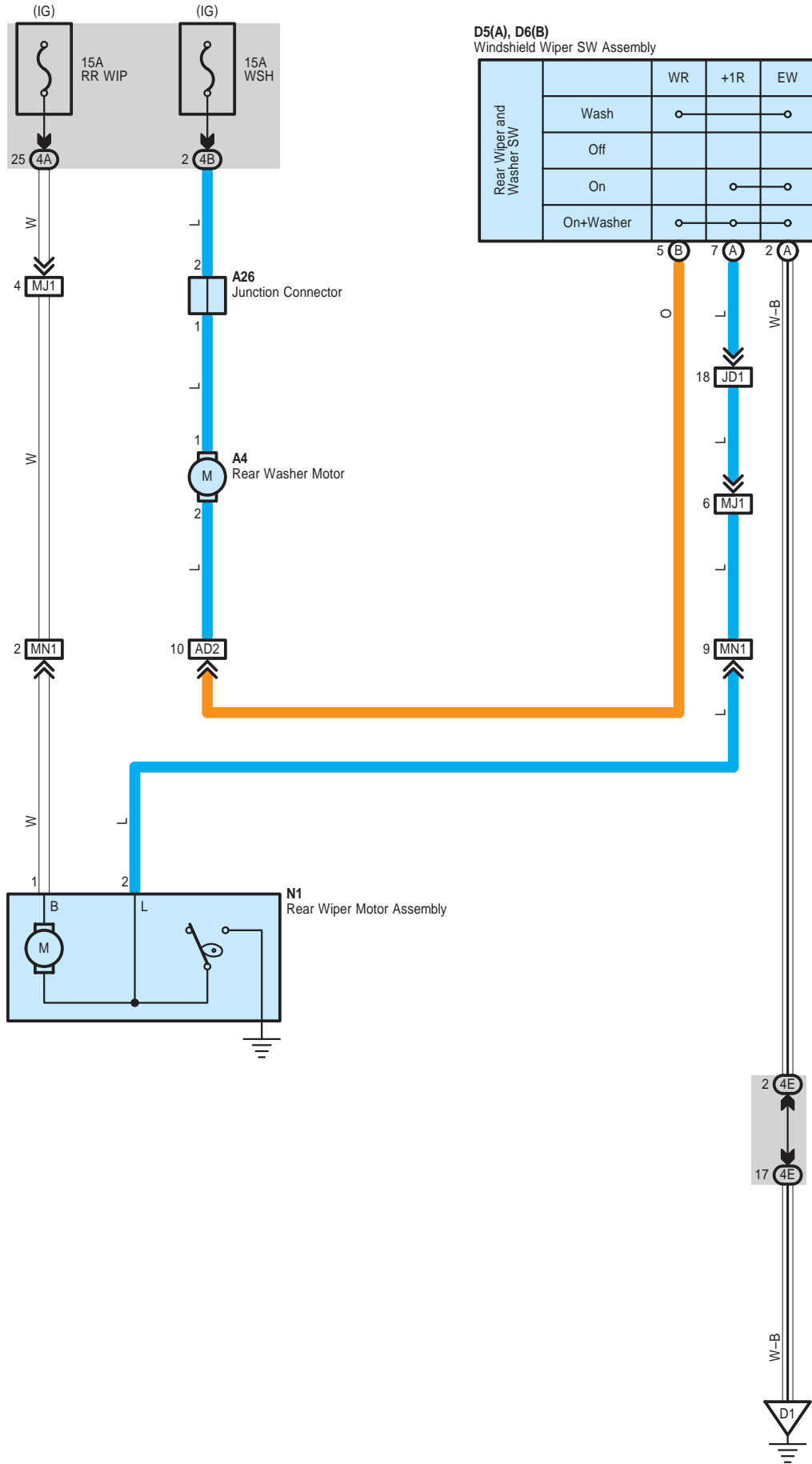


* 1 : w/ Daytime Running Light
 * 2 : w/o Daytime Running Light

Power Window



Rear Wiper and Washer



Cooling Fan

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page		
A3	46 (H/B)	A21	A	48 (S/D)	C20	B	47 (H/B)
	48 (S/D)						49 (S/D)
A8	46 (H/B)	A25		46 (H/B)	D41		51 (H/B)
	48 (S/D)						48 (S/D)
A14	46 (H/B)	C2		47 (H/B)	E8		50 (H/B)
	48 (S/D)						49 (S/D)
A21	A	C19		47 (H/B)			
				49 (S/D)			

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

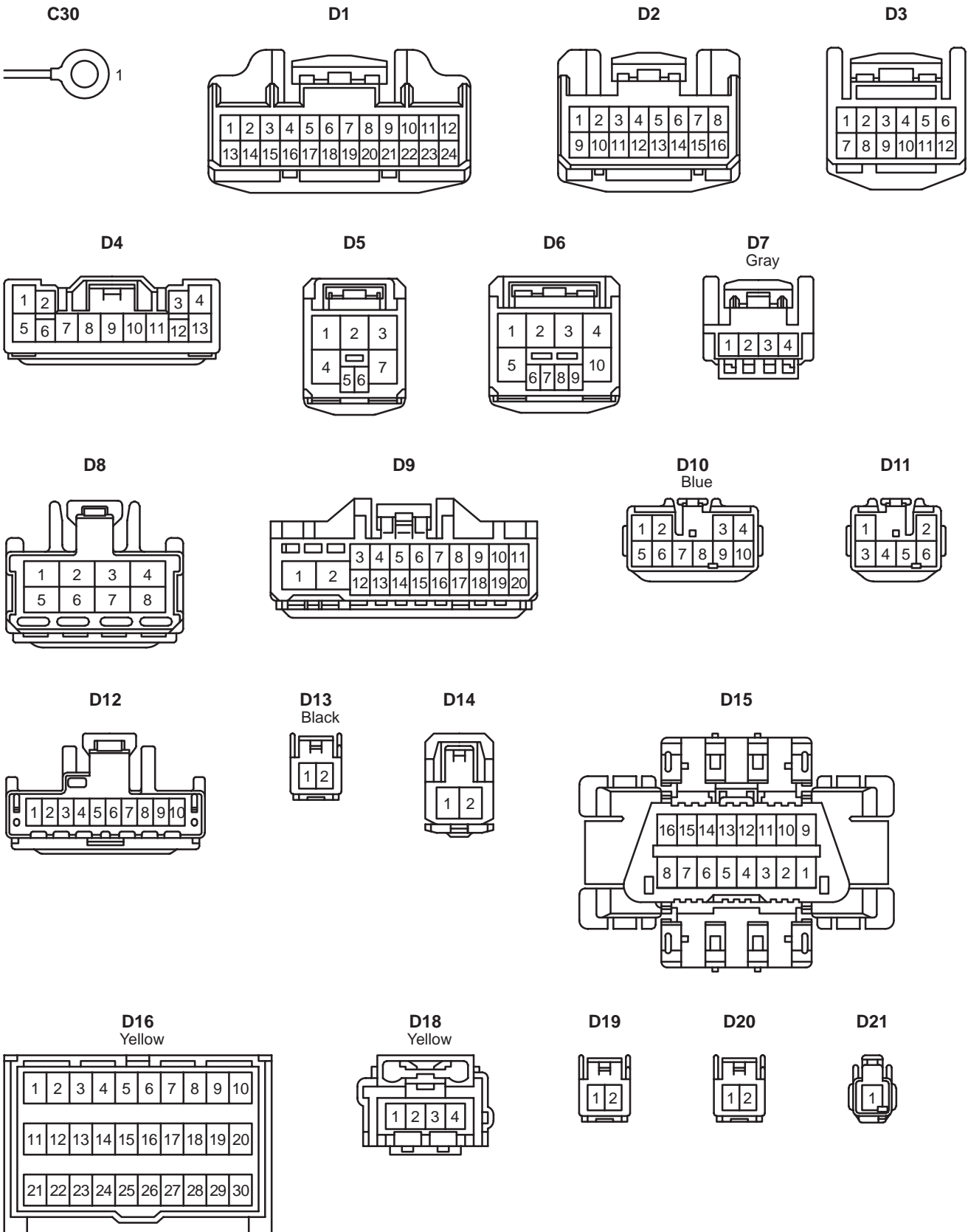
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
4B	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AA2	62 (H/B)	Engine Room Main Wire and Engine Room Main Wire (Instrument Panel Left)
	63 (S/D)	
AD4	62 (H/B)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
	63 (S/D)	
AE1	62 (H/B)	Engine Room Main Wire and Instrument Panel No.2 Wire (Instrument Panel Left)
	63 (S/D)	
DE1	62 (H/B)	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
	63 (S/D)	

▽ : Ground Points

Code	See Page	Ground Points Location
A1	60 (H/B)	Left Suspension Tower
	61 (S/D)	
A2	60 (H/B)	
	61 (S/D)	
C1	60 (H/B)	Engine Block Left
	61 (S/D)	

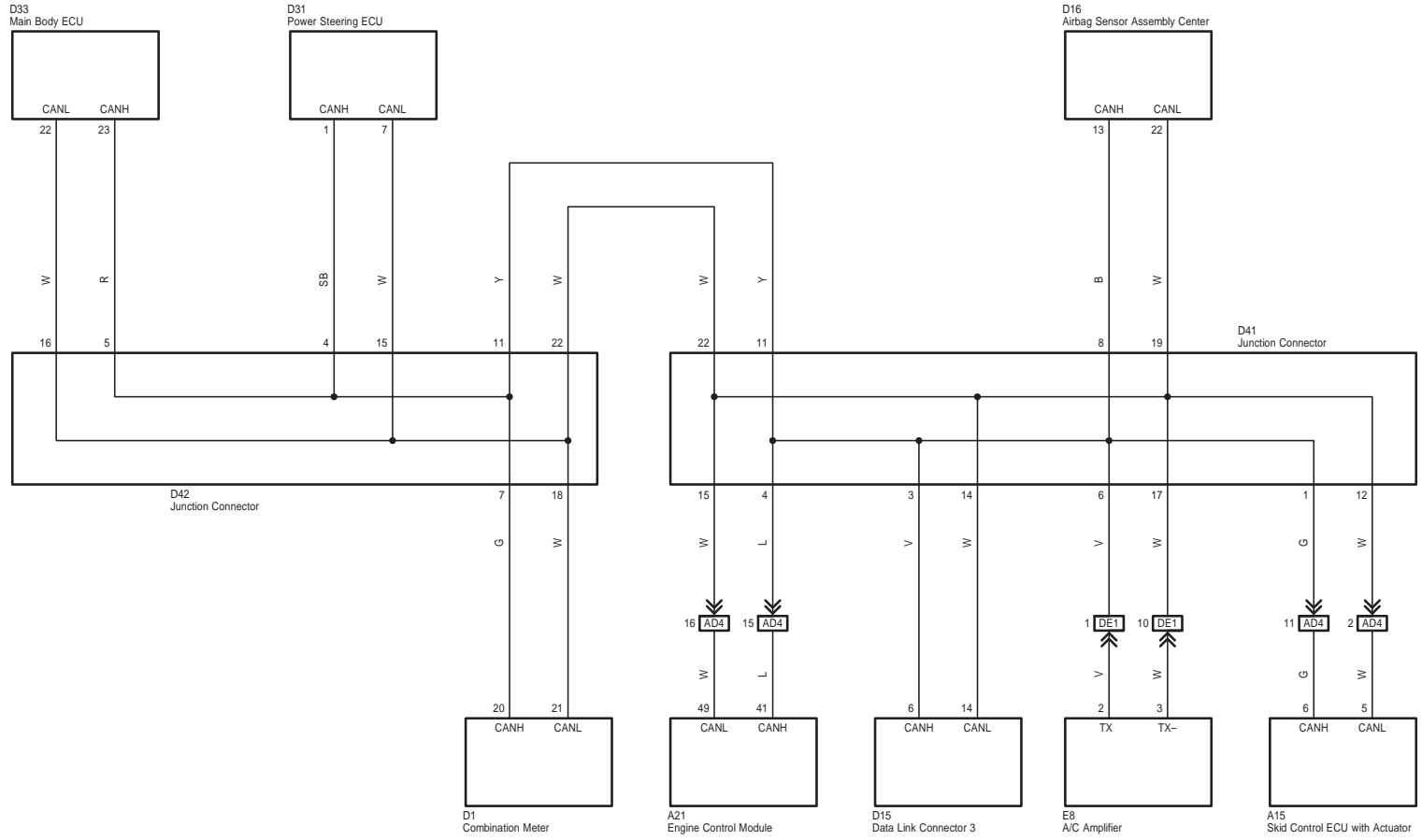


L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
J34	Rear Combination Lamp (RH)	82824-52050	Q2	Airbag Squib (Front Passenger's Airbag Assembly)	90980-12575
J35	Rear Combination Lamp (LH)		U1	Occupant Classification ECU	90980-12357
J36	License Plate Lamp (RH)	90980-11148	U2	Occupant Classification Sensor (Front LH)	90980-12353
J37	License Plate Lamp (LH)		U3	Occupant Classification Sensor (Rear LH)	
J38	Speaker (Rear RH)	90980-11299	U4	Occupant Classification Sensor (Front RH)	
J39	Speaker (Rear LH)		U5	Occupant Classification Sensor (Rear RH)	
J40	High Mounted Stop Light	90980-11148	V1	Cruise Control SW (S/D)	
J41	High Mounted Stop Light	90980-11967		Spiral Cable (H/B)	90980-12361
J42	Door Lock Assembly (Luggage)	90980-10908		Spiral Cable (S/D)	90980-12360
J43	Door Lock Assembly (Luggage)	90980-11212		Steering Pad SW (H/B)	90980-12361
J44	Rear Window Defogger	90980-10913		Steering Pad SW (S/D)	90980-12360
J45	Noise Filter	90980-10916	W1	Airbag Squib (Steering Wheel Pad)	90980-12224
K1	Map Lamp	90980-11212		Spiral Cable	
K2	Room Lamp (Center)	-	W2	Airbag Squib (Steering Wheel Pad)	90980-12219
L1	License Plate Lamp	90980-11162		Spiral Cable	
M1	Center Stop Lamp	90980-10860	X1	Side Airbag Squib (RH)	90980-12452
M2	Rear Window Defogger	90980-11853	Y1	Side Airbag Squib (LH)	
N1	Rear Wiper Motor Assembly	90980-10860	Z1	Speed Sensor (Rear RH)	90980-12416
N2	Back Door Courtesy SW	90980-10795	a1	Speed Sensor (Rear LH)	
N3	Back Door Lock Assembly	90980-10825	b1	Power Steering ECU	90980-12299
N4	Back Door Position SW	90980-11150		Power Steering Motor	
O1	Rear Window Defogger (H/B)	90980-11853	c1	Power Steering ECU	90980-12221
	Rear Window Defogger (S/D)	90980-10914		Power Steering Torque Sensor	
P1	Knock Control Sensor (Bank 1)	90980-11875			
Q1	Airbag Squib (Front Passenger's Airbag Assembly)	90980-12576			

Note: Not all of the above part numbers of the connector are established for the supply.

Multiplex Communication System (CAN)



YARIS (EM01V0U)