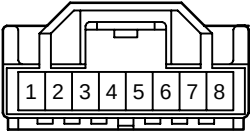
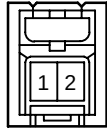


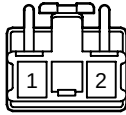
A25
(Manual A/C) BLACK



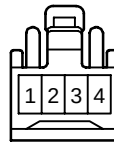
A26
YELLOW



A27
YELLOW



A28
BLACK



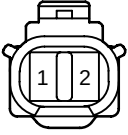
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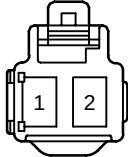
A30



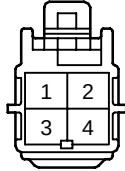
B1
GRAY



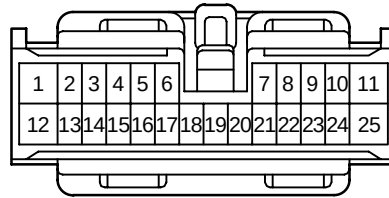
B2



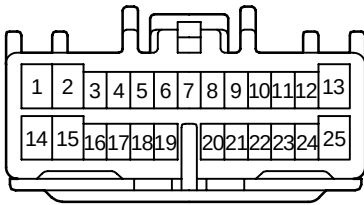
B3
BLACK



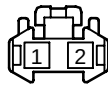
B4



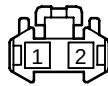
B5



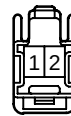
B6



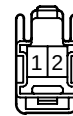
B7



B8



B9



C1
BLACK



C2
BLACK



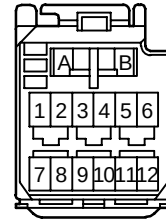
C3
BLACK



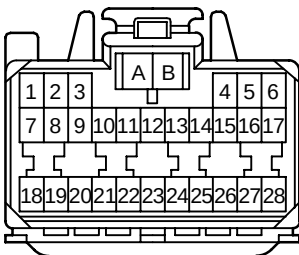
C4
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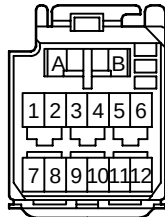
C5
YELLOW



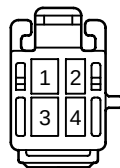
C6
YELLOW



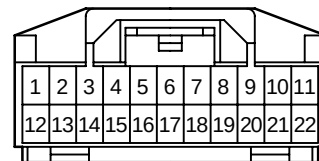
C7
YELLOW



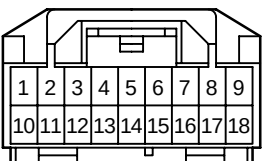
C8



C9



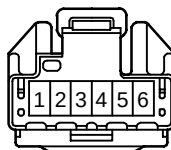
C10



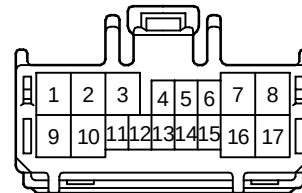
C11



C12
BLACK



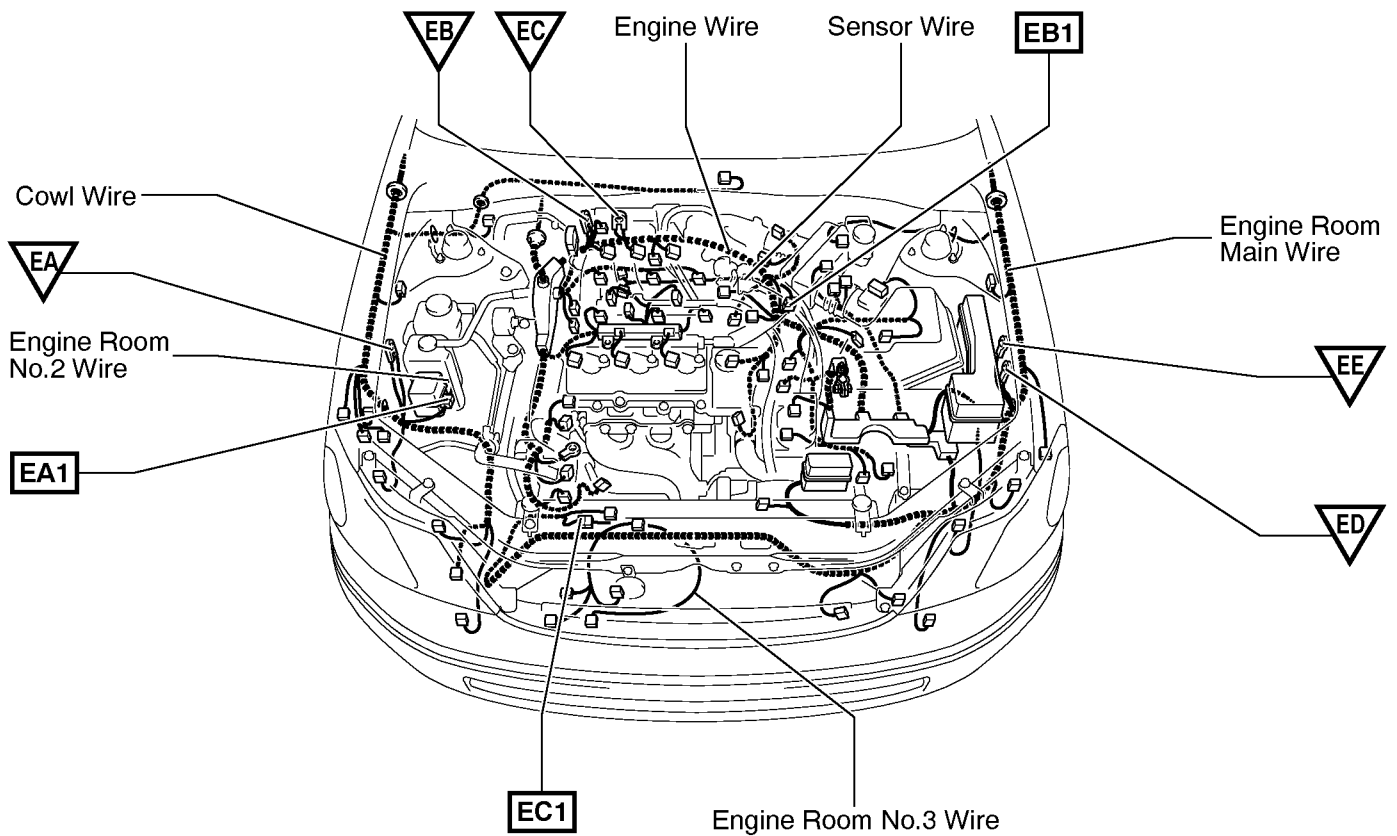
C13



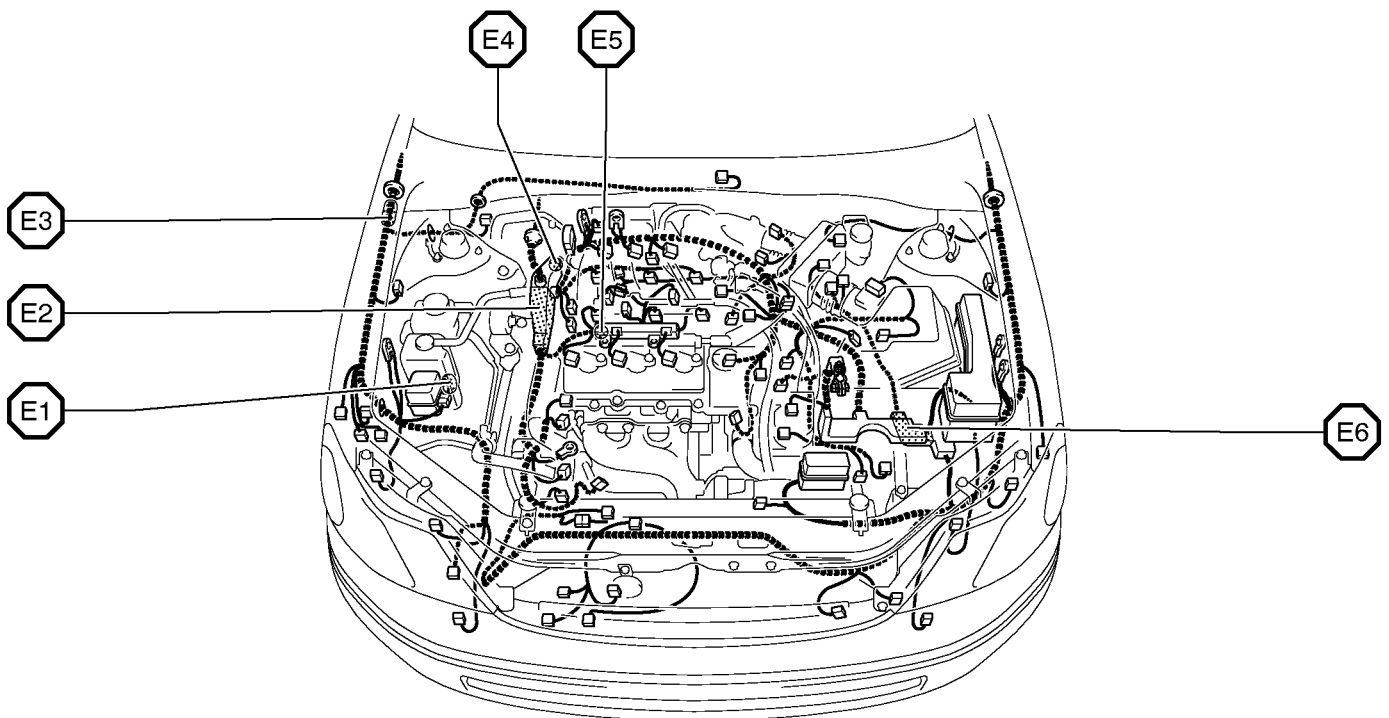
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points



○ : Location of Splice Points

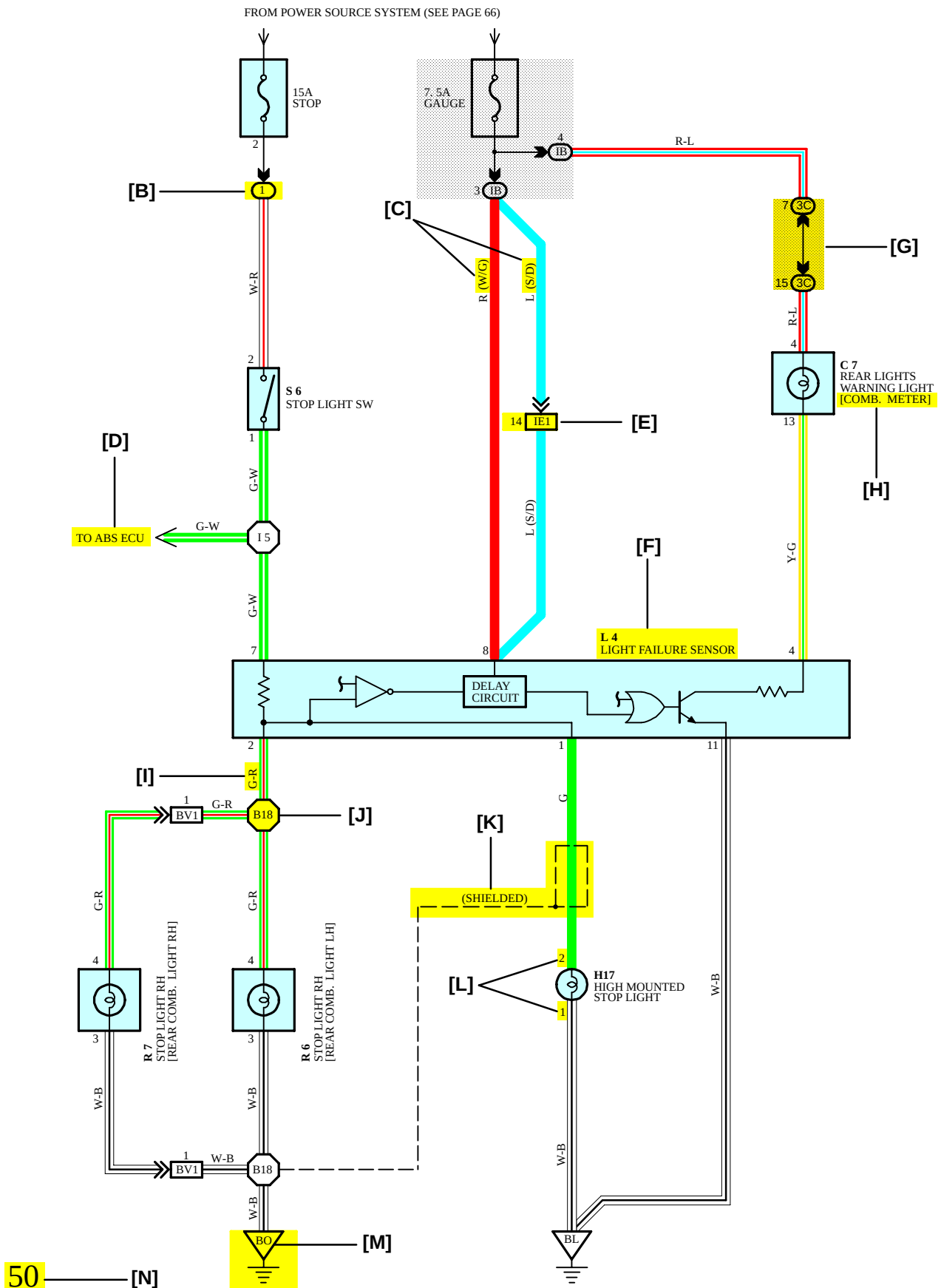


B HOW TO USE THIS MANUAL

[A]

STOP LIGHT

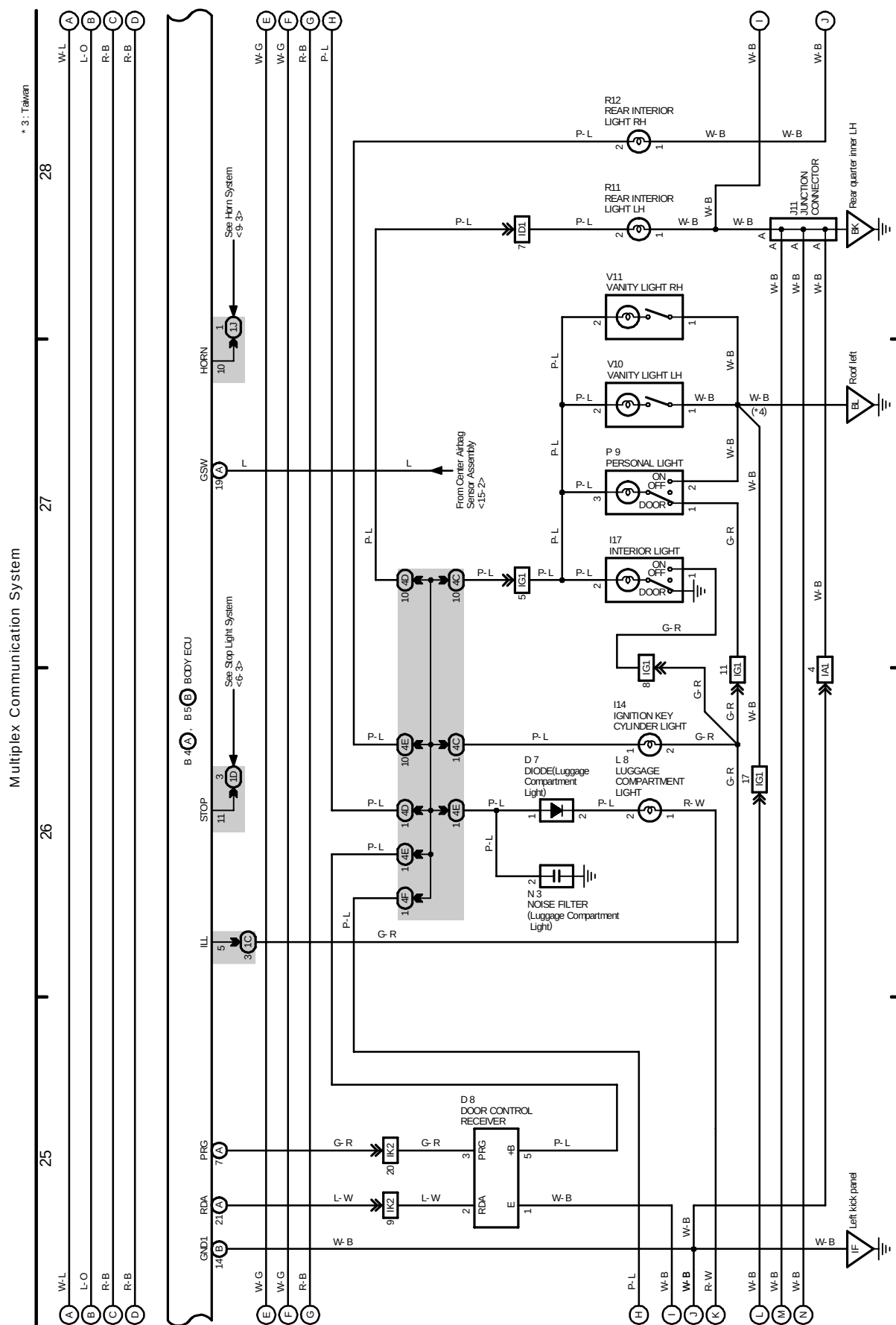
* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



M OVERALL ELECTRICAL WIRING DIAGRAM

8 AVALON (Cont' d)

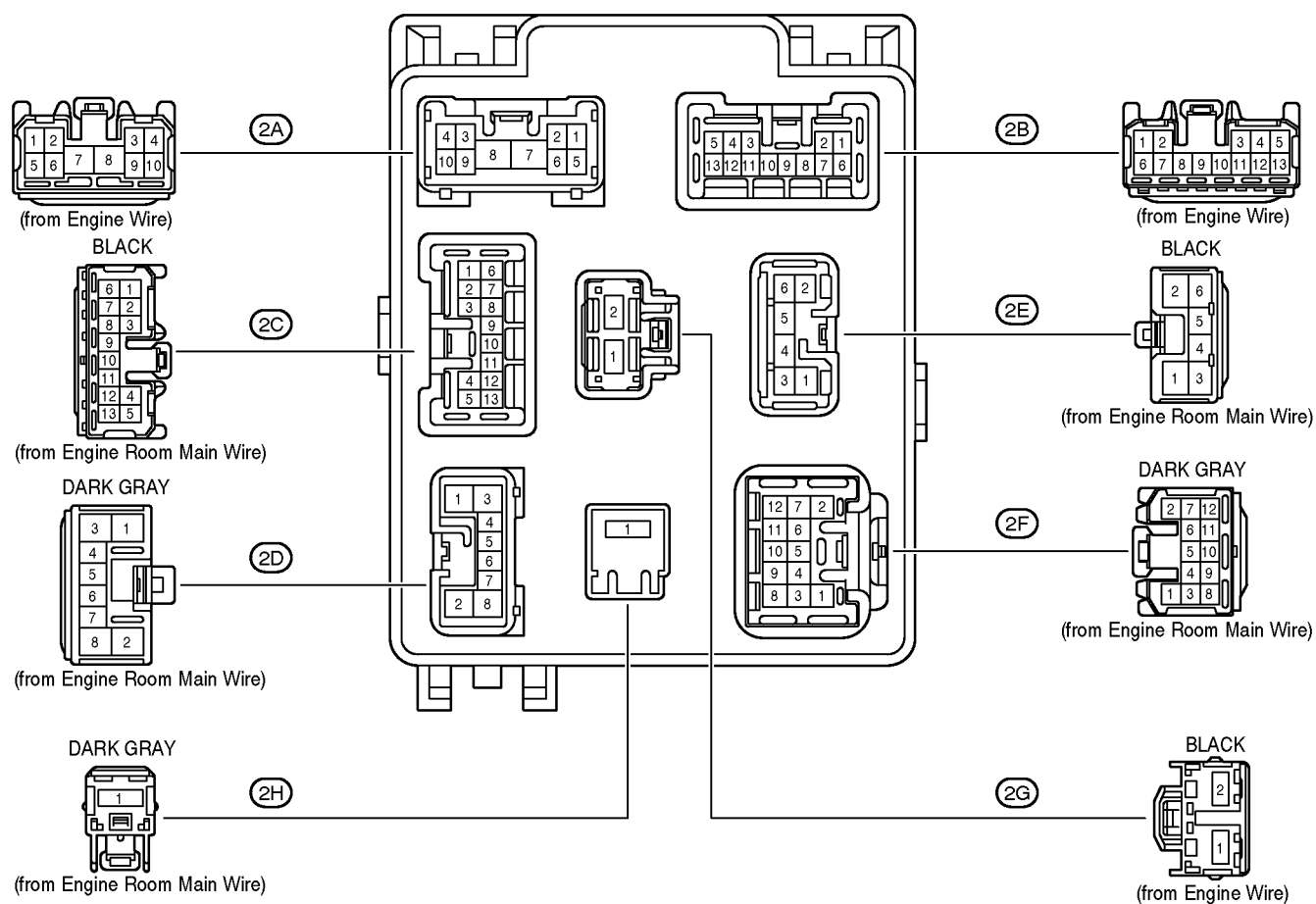
(Cont. next page)



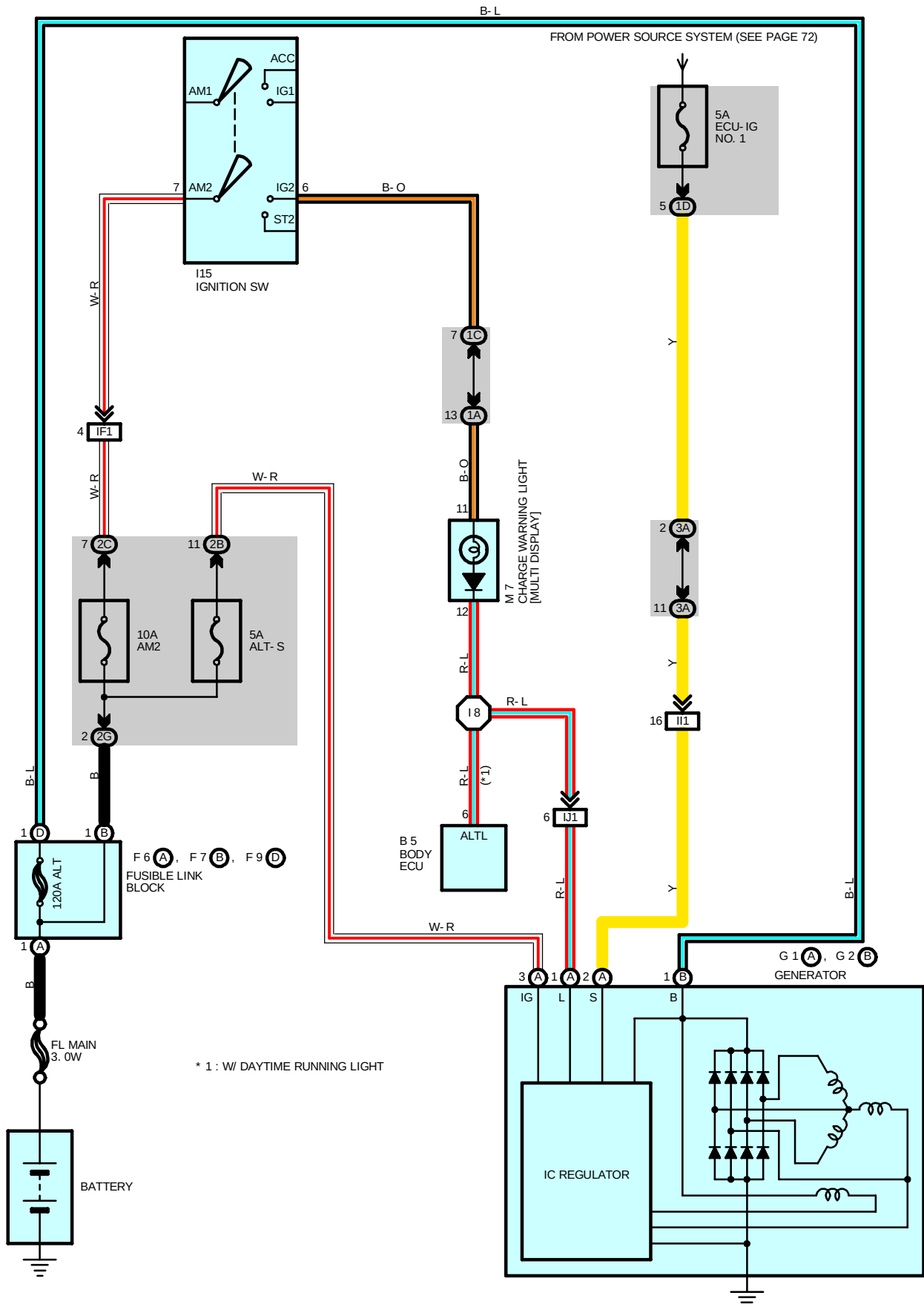
F RELAY LOCATIONS

○ : Engine Room J/B

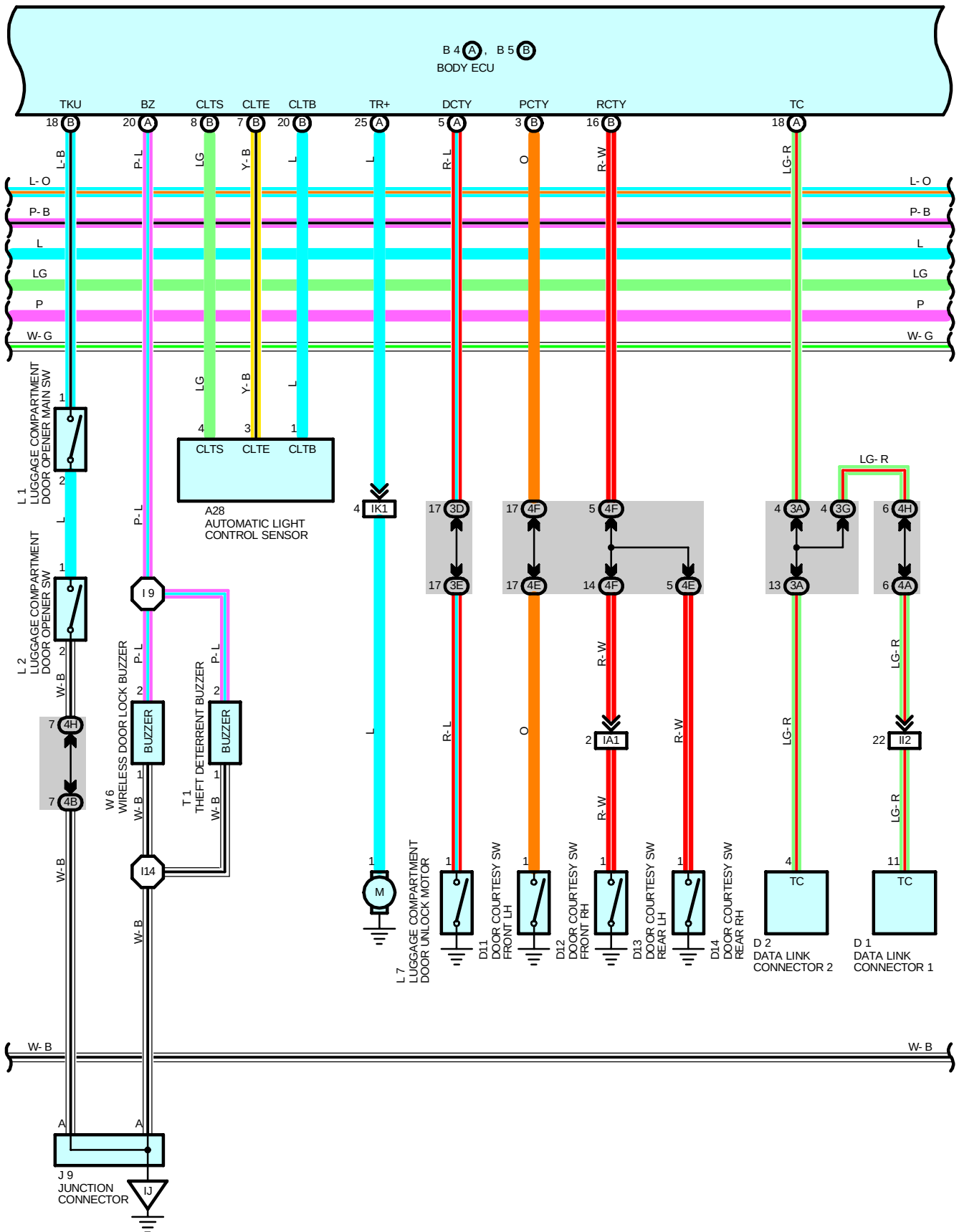
Engine Compartment Left (See Page 20)



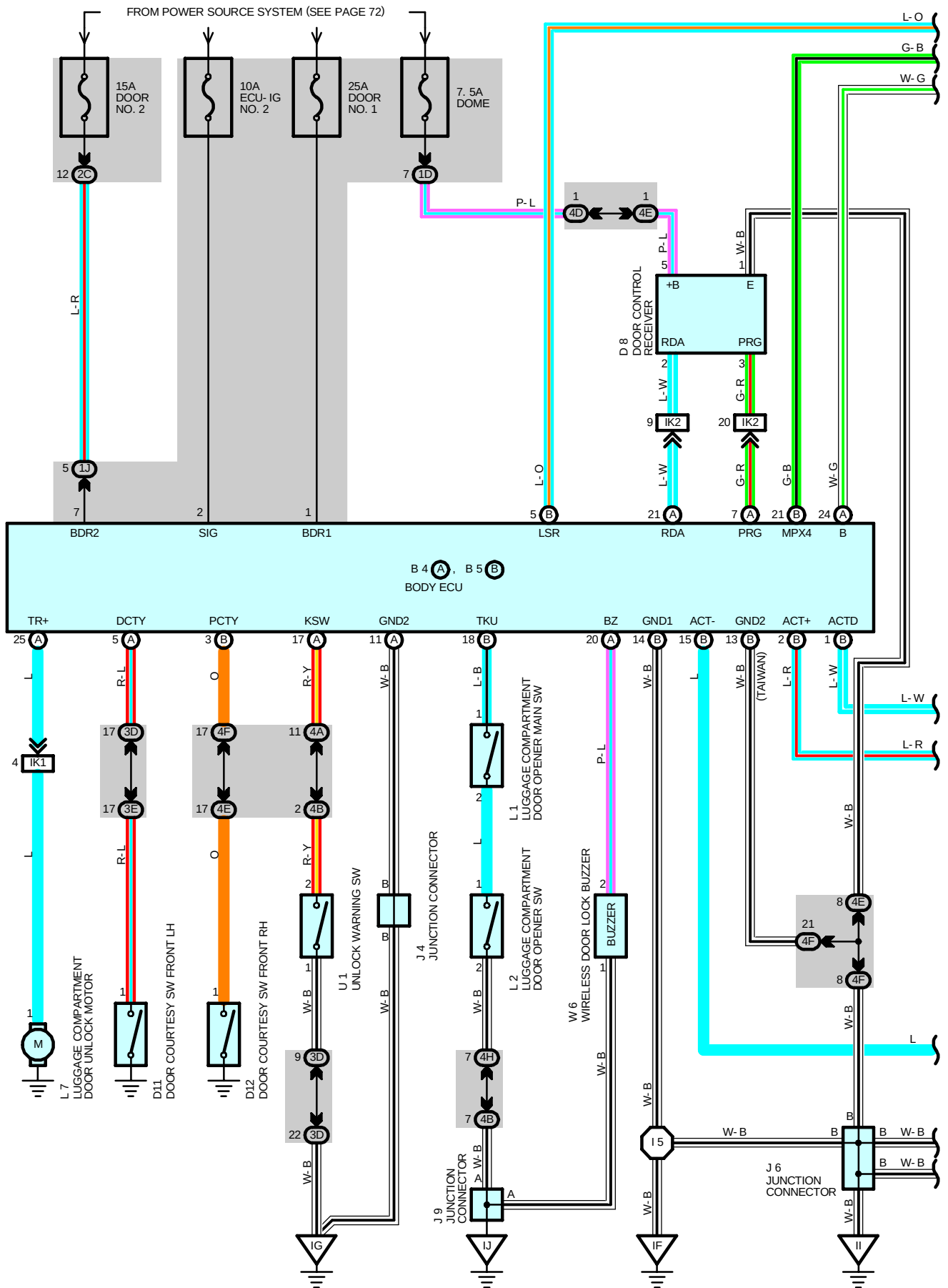
CHARGING



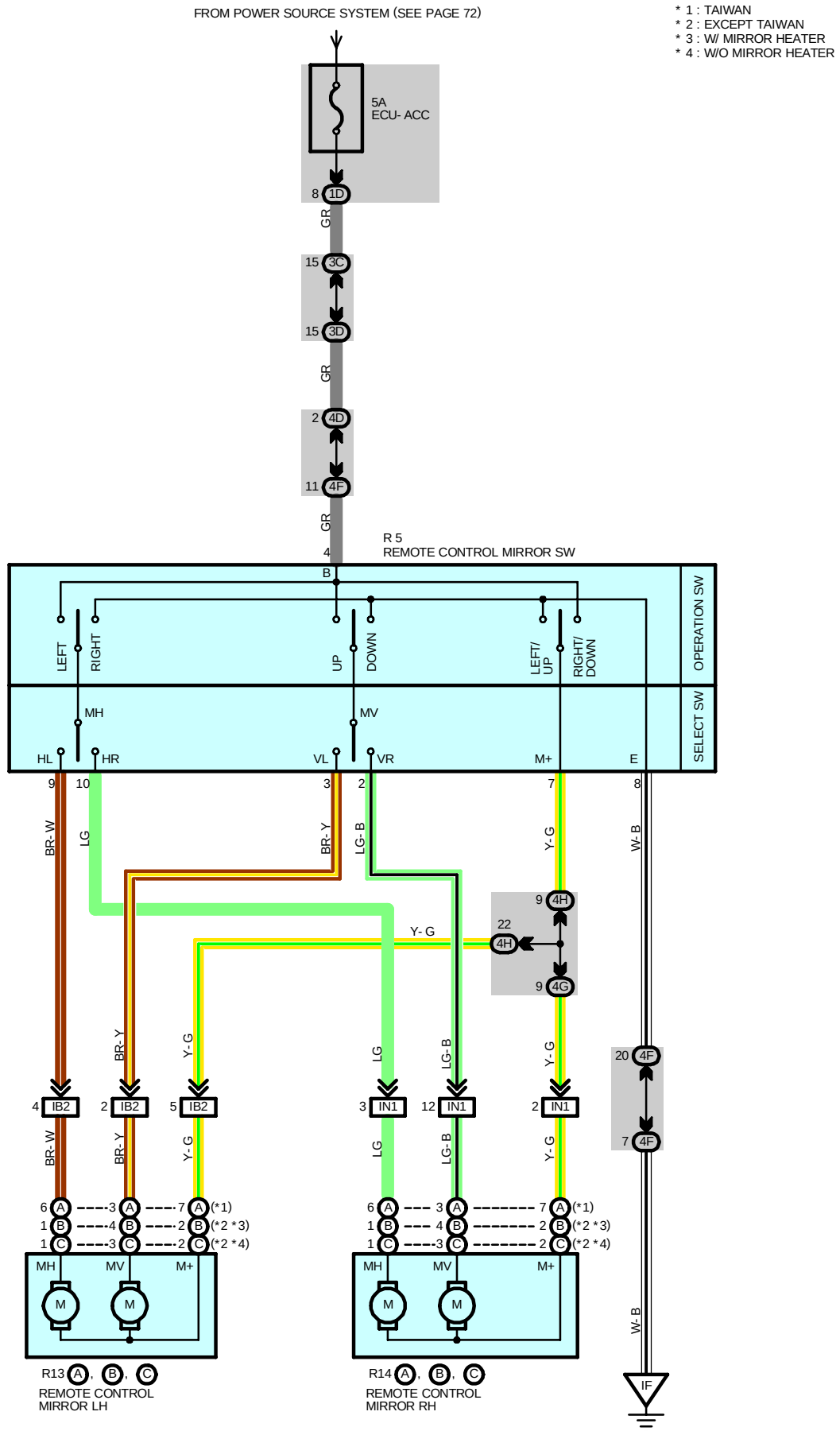
MULTIPLEX COMMUNICATION SYSTEM



WIRELESS DOOR LOCK CONTROL



REMOTE CONTROL MIRROR (w/o DRIVING POSITION MEMORY)



SERVICE HINTS

R5 REMOTE CONTROL MIRROR SW

7-8 : Continuity with the operation SW at **UP** or **LEFT** position

4-7 : Continuity with the operation SW at **DOWN** or **RIGHT** position

4-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
R5	47 (Column Shift)	R13	B	R14	B
	49 (Floor Shift)		C		C
R13	A	R14	A		

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	27	Cowl Wire and Driver Side J/B (Lower Finish Panel)
3C	34	Cowl Wire and J/B No.3 (Left Kick Panel)
3D		
4D	38	Cowl Wire and J/B No.4 (Right Kick Panel)
4F	39	Instrument Panel Wire and J/B No.4 (Right Kick Panel)
4G		
4H		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	56 (Column Shift)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
	60 (Floor Shift)	
IN1	58 (Column Shift)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
	62 (Floor Shift)	

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	56 (Column Shift)	Left Kick Panel
	60 (Floor Shift)	



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SYSTEM OUTLINE

The radiator fan motor and A/C condenser fan motor operates according to the water temp. SW NO.1, water temp. SW NO.2, A/C single pressure SW, and the A/C system condition. The FAN NO.1 relay, FAN NO.2 relay, FAN NO.3 relay are turned on/off, to operate the fan motors at low speed (In series), or high speed (In parallel).

1. LOW SPEED OPERATION

Either when the A/C system is operating, or when the water temp. SW NO.2 is on, the radiator fan motor and A/C condenser fan motor operates at low speed.

2. HIGH SPEED OPERATION

Either when the A/C system is operating, or when the water temp. SW NO.2 is on, if the water temp. SW NO.1 or A/C single pressure SW is on, the radiator fan motor and A/C condenser fan motor operates at high speed.

SERVICE HINTS

A3 A/C SINGLE PRESSURE SW

3-2 : Open above approx. **15.5 kgf/cm² (224 psi, 1520 kpa)**

Close below approx. **12.5 kgf/cm² (181 psi, 1225 kpa)**

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A2	44	D4	48 (Floor Shift)	R1	45
A4	44	E7	46 (Column Shift)	W4	45
D4	46 (Column Shift)		48 (Floor Shift)	W5	45

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
3	24	Engine Room R/B No.3 (Near the Radiator Fan)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	27	Cowl Wire and Driver Side J/B (Lower Finish Panel)
1H	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1I	27	Cowl Wire and Driver Side J/B (Lower Finish Panel)
2D	30	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2E		
2F		
3A	34	Cowl Wire and J/B No.3 (Left Kick Panel)
3H	35	

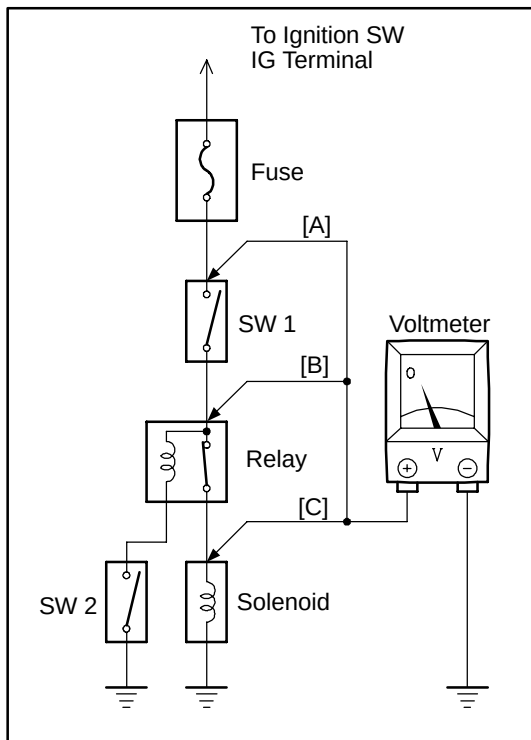
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	54	Engine Room Main Wire and Engine Room No.3 Wire (Near the Radiator Fan)
IF1	56 (Column Shift)	Engine Room Main Wire and Cowl Wire (Left Side of Instrument Panel)
	60 (Floor Shift)	
IF3	56 (Column Shift)	
	60 (Floor Shift)	
II2	58 (Column Shift)	Engine Wire and Cowl Wire (Behind the Glove Box)
	62 (Floor Shift)	

: GROUND POINTS

Code	See Page	Ground Points Location
ED	54	Front Side of Left Fender

C TROUBLESHOOTING



VOLTAGE CHECK

- (a) Establish conditions in which voltage is present at the check point.

Example:

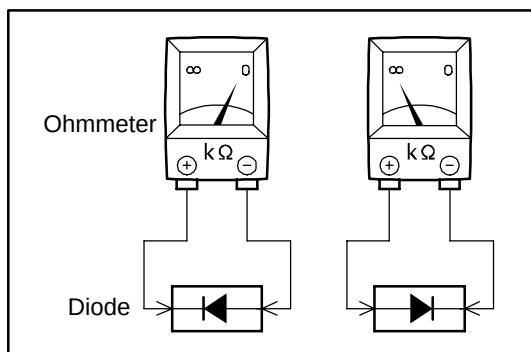
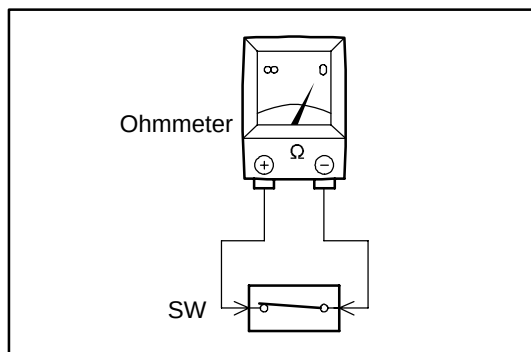
- [A] - Ignition SW on
- [B] - Ignition SW and SW 1 on
- [C] - Ignition SW, SW 1 and Relay on (SW 2 off)

- (b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.

This check can be done with a test light instead of a voltmeter.

CONTINUITY AND RESISTANCE CHECK

- (a) Disconnect the battery terminal or wire so there is no voltage between the check points.
- (b) Contact the two leads of an ohmmeter to each of the check points.

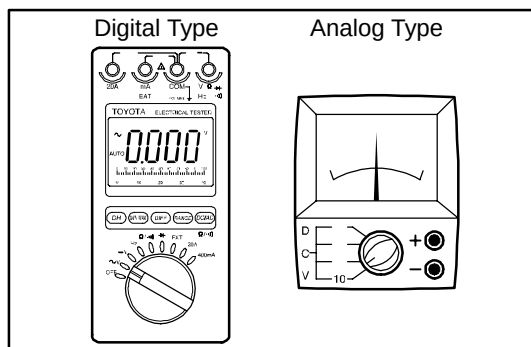


If the circuit has diodes, reverse the two leads and check again.

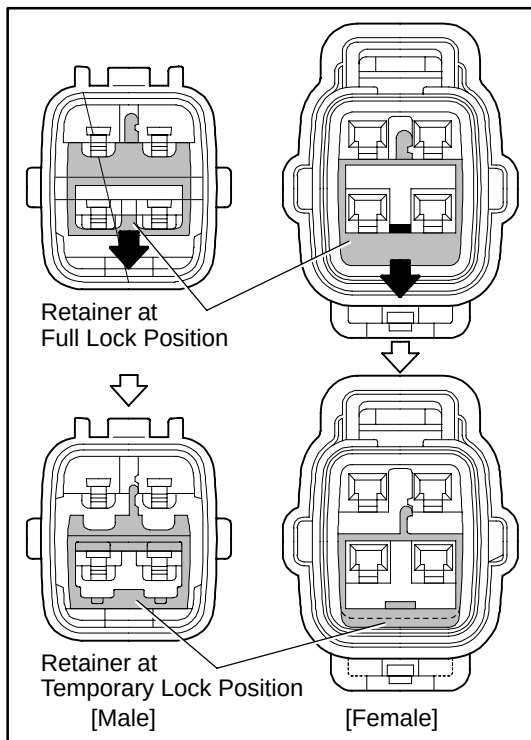
When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.

When contacting the two leads in reverse, there should be no continuity.

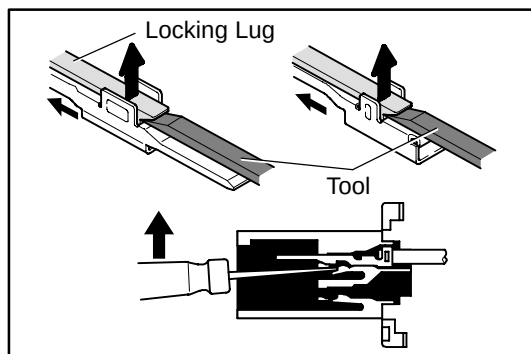
- (c) Use a volt/ohmmeter with high impedance (10 k Ω /V minimum) for troubleshooting of the electrical circuit.



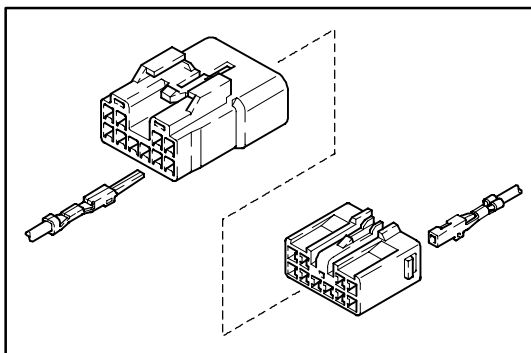
C TROUBLESHOOTING



Push the terminal retainer down to the temporary lock position.



(c) Release the locking lug from terminal and pull the terminal out from rear.



4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

HINT:

1. Make sure the terminal is positioned correctly.
2. Insert the terminal until the locking lug locks firmly.
3. Insert the terminal with terminal retainer in the temporary lock position.

(b) Push the secondary locking device or terminal retainer in to the full lock position.

5. CONNECT CONNECTOR

