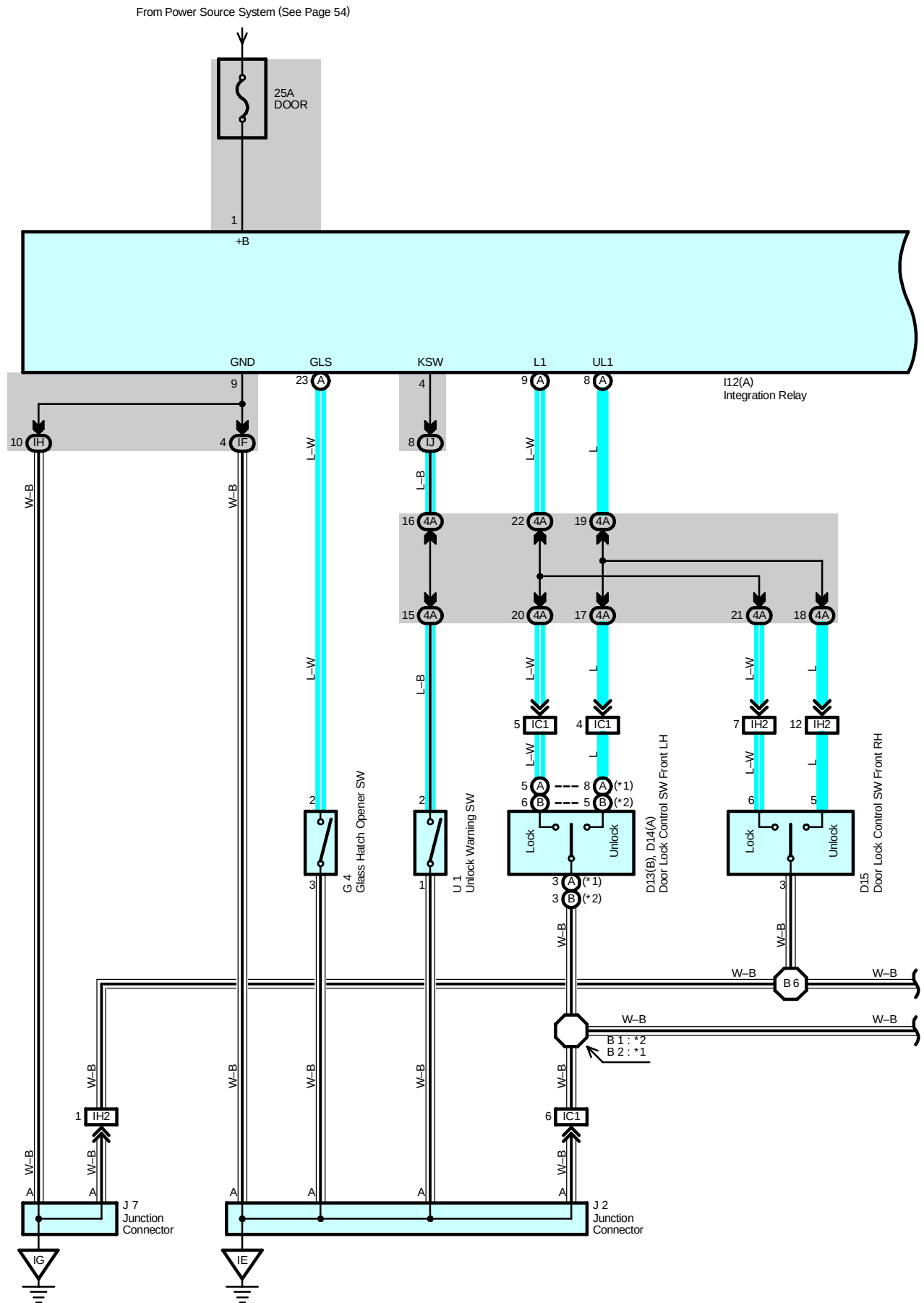
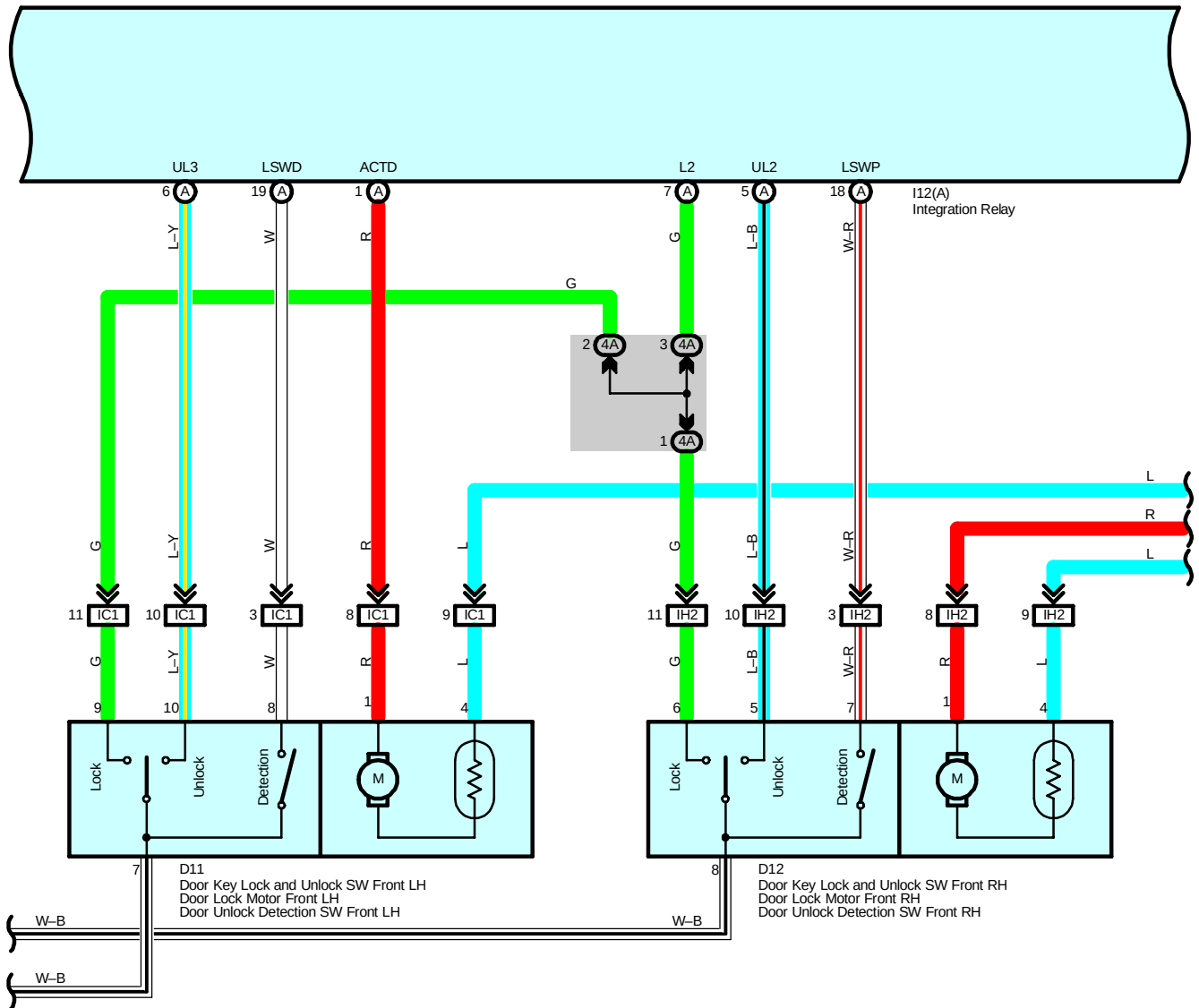


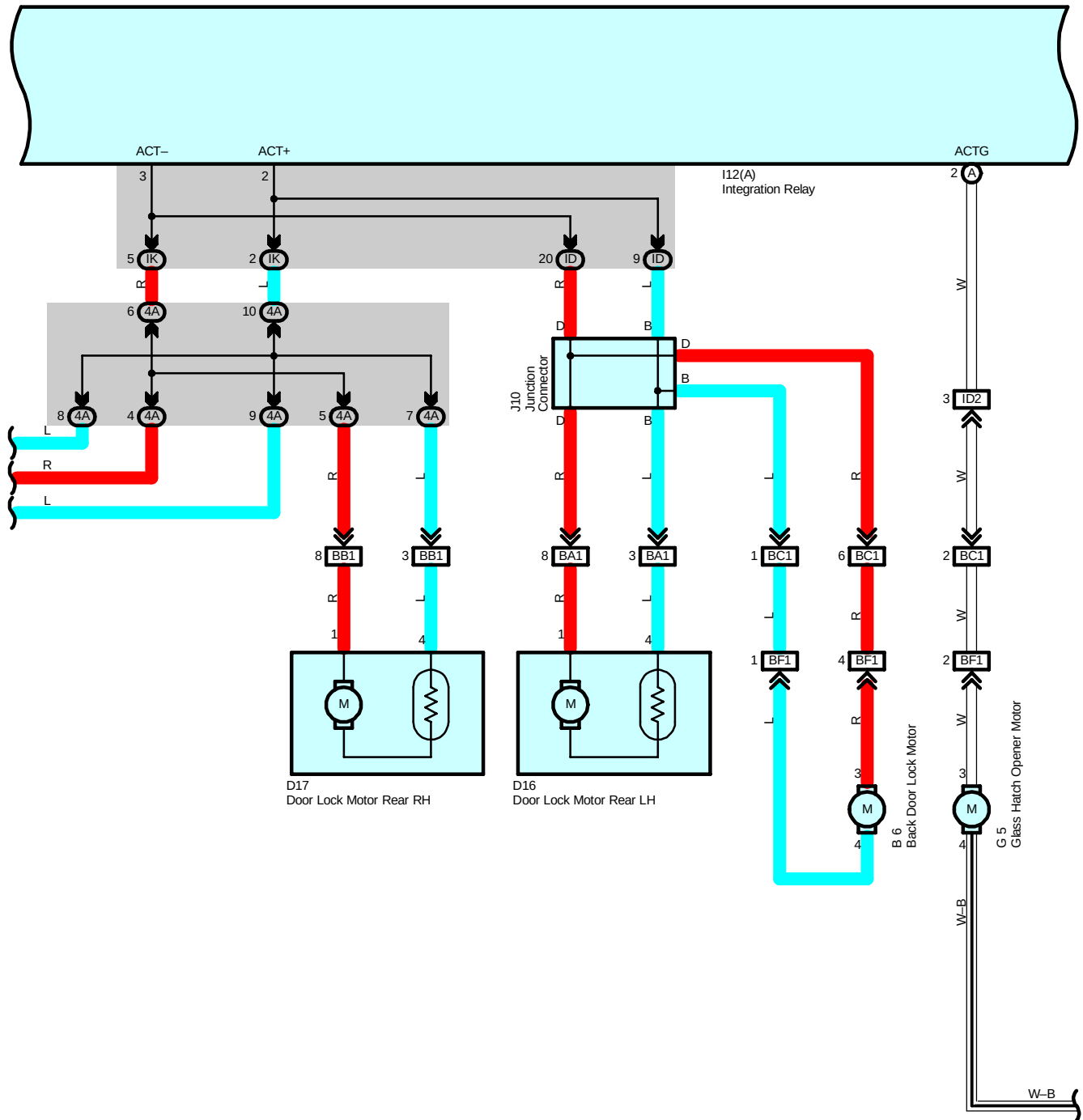
Wireless Door Lock Control

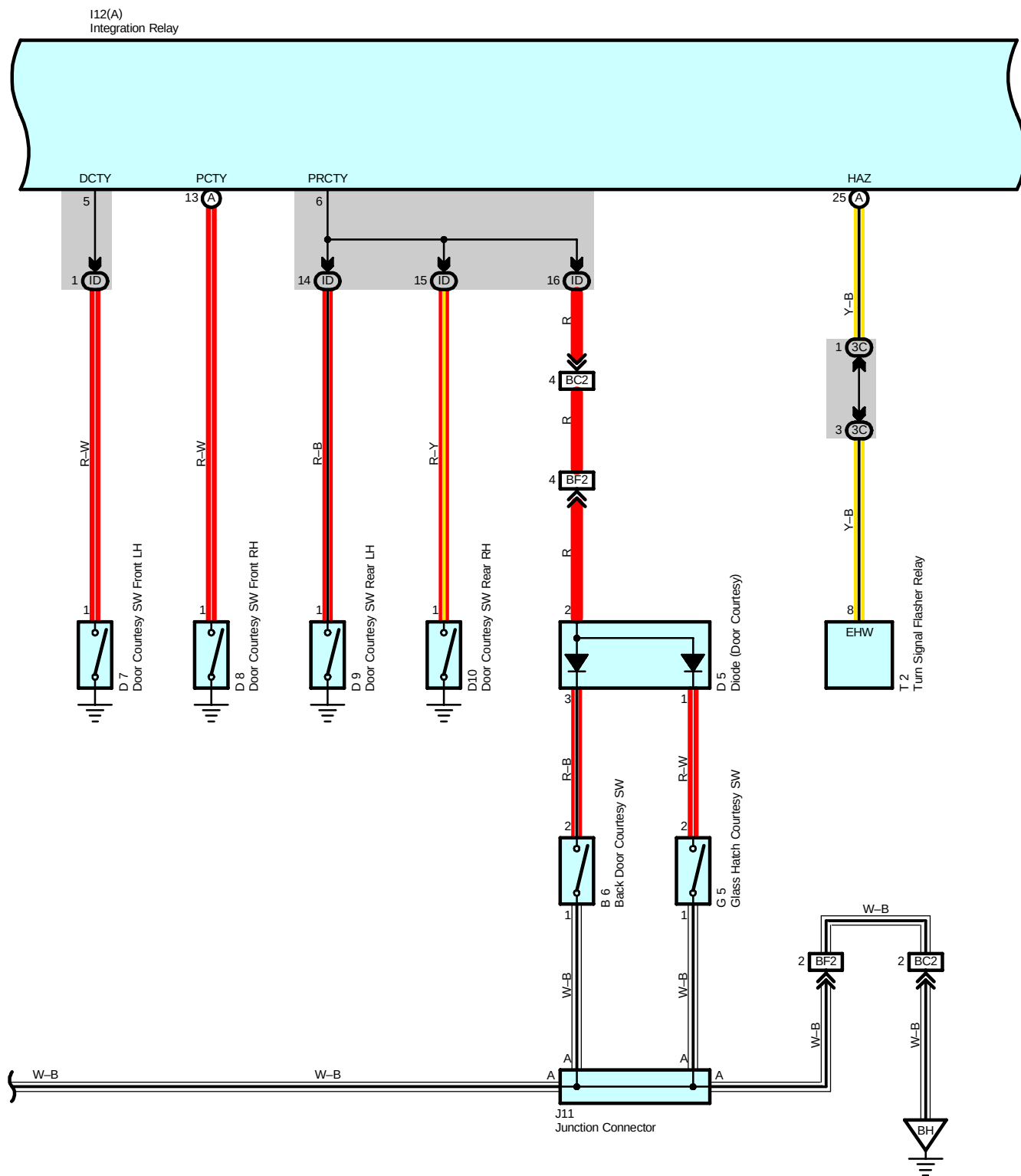


* 1 : w/ Power Window
 * 2 : w/o Power Window



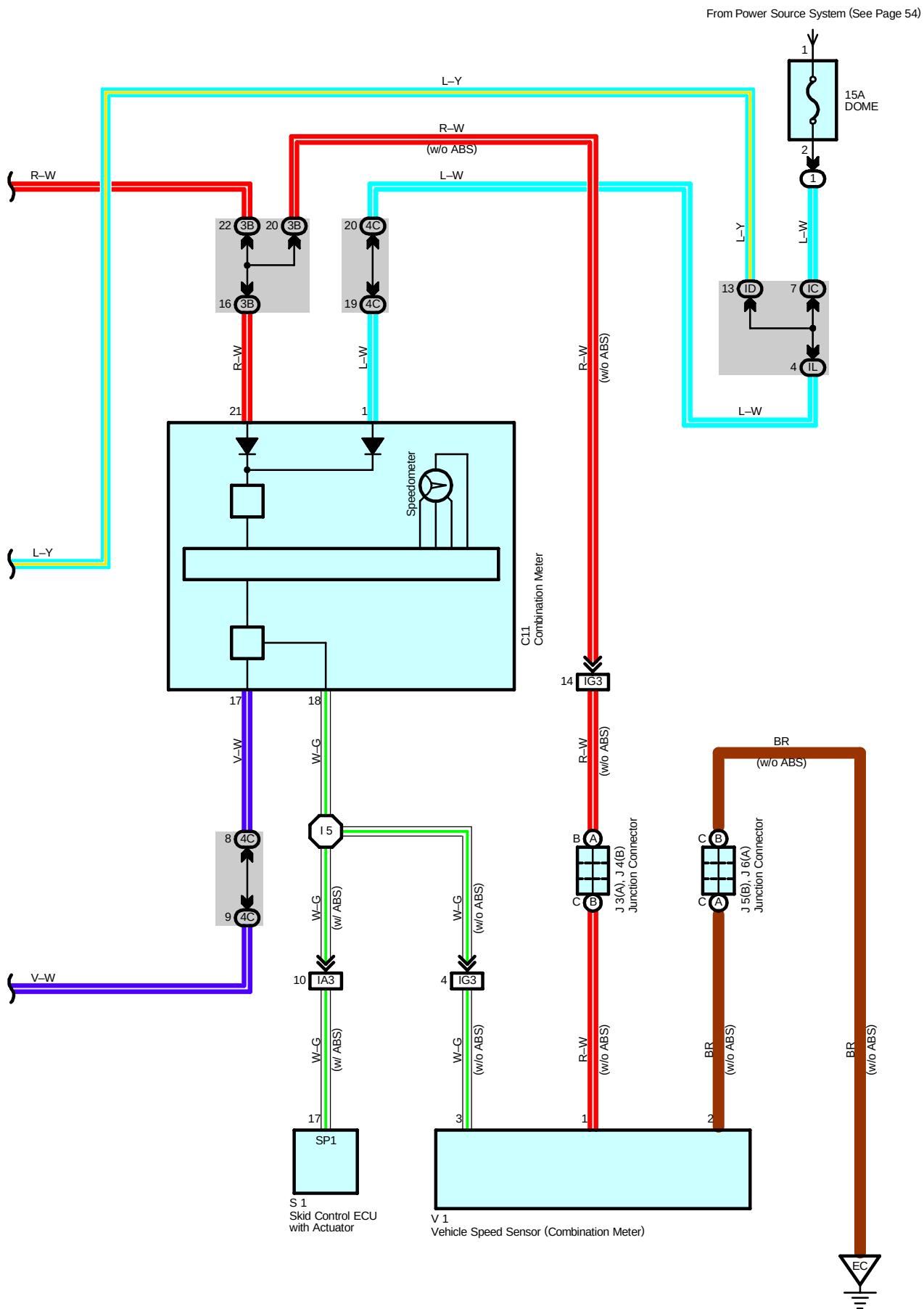
Wireless Door Lock Control





2003 COROLLA MATRIX (EWD486U)





Wireless Door Lock Control

System Outline

Door lock control (Lock and unlock) and panic control (TVIP alarm and flash) is performed by remote control, without the ignition key inserted in the door key cylinder, using low-power electrical waves emitted by a transmitter.

1. Wireless Door Lock or Unlock Normal Operation

With the ignition key not inserted into the ignition key cylinder (Unlock warning SW off) and all the doors completely closed, when the lock or unlock button (Transmitter) is pushed, the door control receiver receives the electrical waves from the transmitter, and sends a signal to the integration relay causing it to operate.

As a result, the integration relay judges whether the door is locked or unlocked based on the signal from the door lock motor and door unlock detection SW, and sends a signal to switch the condition from lock to unlock or vice versa, causing the door lock motor to operate.

2. Visual Confirmation of Lock or Unlock

If all doors indicate that they are locked after the lock command, parking lights and taillights will flash once. If any door indicates that it is open after the unlock command, parking lights and taillights will flash twice.

3. Wireless Door Unlock Operation

Pushing the unlock button (Transmitter) once, driver's door is unlocked. Furthermore, pushing the button again within 3 seconds, the other doors are unlocked.

4. Automatic Lock Operation

With the ignition key not inserted into the ignition key cylinder (Unlock warning SW off) and all the doors completely closed, after pushing the button (Transmitter) to unlock all the doors, if a door is not opened within 30 seconds, all the doors will be automatically relocked.

5. Glass Hatch Open Operation

With the ignition key not inserted into the ignition key cylinder, when the hatch button (Transmitter) is pushed, the door control receiver receives the electrical waves from the transmitter, and sends a signal to the integration relay causing it to operate.

As a result, the glass hatch is opened.

6. Wireless Control Stop Function

If a door is open (Door courtesy SW on), a signal is input from the door courtesy SW to the integration relay stopping wireless door lock or unlock.

If the ignition key is in the ignition key cylinder (Unlock warning SW on), the unlock warning SW inputs a signal to the integration relay stopping wireless door lock or unlock.

7. Repeat Function

In case an appropriate lock detection signal is not received after outputting a lock signal when pushing the lock button (Transmitter), 1 seconds later, the integration relay output the lock signal again.

8. Remote Panic Operation

Panic will function when doors are locked or unlocked, open or closed. When the panic button (Transmitter) is pushed once, theft alarm sounds and headlights and taillights flash. Then, the panic or the unlock button (Transmitter) is pushed once more, sounding and flashing will stop. Panic will not function when ignition key is in ignition key cylinder.

Service Hints

I12 (A) Integration Relay

- 9-Ground : Always continuity
- 5-Ground : Continuity with the driver's door open
- 1-Ground : Always approx. 12 volts
- 2-Ground : Approx. 12 volts 0.2 seconds with following operation
 - * Door lock control SW locked
 - * Locking the driver's, front passenger's door cylinder with the key
- (A) 9-Ground : Continuity with the door lock control SW locked
- (A)13-Ground : Continuity with the front passenger's door open
- (A)19-Ground : Continuity with the driver's door lock knob unlocked
- (A) 8-Ground : Continuity with the door lock control SW unlocked
- (A) 5-Ground : Continuity with the front passenger's door lock cylinder unlock with the key
- (A) 6-Ground : Continuity with the driver's door lock cylinder unlocked with the key
- (A) 7-Ground : Continuity with the driver's, front passenger's door lock cylinder locked with the key
- (A) 1 or 3-Ground : Approx. 12 volts 0.2 seconds with following operation
 - * Door lock control SW unlocked
 - * Door lock control SW locked with the ignition key in cylinder and the driver's door open (Ignition key reminder function)
 - * Door lock knob locked with the ignition key in cylinder and the driver's door open (Ignition key reminder function)
 - * Unlocking the driver's, front passenger's door cylinder with the key

D7, D8, D9, D10 Door Courtesy SW Front LH, RH, Rear LH, RH

- 1-Ground : Closed with the door open

B6 Back Door Courtesy SW

- 2-1 : Closed with the back door open

U1 Unlock Warning SW

- 1-2 : Closed with the ignition key in cylinder

D6 Door Control Receiver

- 5-Ground : Always approx. 12 volts
- 1-Ground : Always continuity

G5 Glass Hatch Courtesy SW

- 2-1 : Closed with the glass hatch open

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B6	40	D14	A 40	J7	39
C11	38	D15	40	J8	A 40
D2	38	D16	40	J9	B 40
D5	40	D17	40	J10	40
D6	40	G4	39	J11	40
D7	40	G5	40	S1	35 (2ZZ-GE)
D8	40	I12	A 39		37 (1ZZ-FE)
D9	40	J2	39	T2	39
D10	40	J3	A 39	U1	39
D11	40	J4	B 39	V1	37 (1ZZ-FE)
D12	40	J5	B 39		
D13	B 40	J6	A 39		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	23	Engine Room R/B (Engine Compartment Left)

Wireless Door Lock Control



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	25	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
ID	25	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
IG		
IH		
IJ		
IK	24	
IL		
3B	29	Instrument Panel Wire and RH J/B (Right Side of the Instrument Panel Reinforcement)
3C		
4A	32	Instrument Panel Wire and Center J/B (Behind the Combination Meter)
4C		



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	46	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Reinforcement LH)
IA3		
IA4		
IC1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
ID2	46	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IG3	48	Engine Wire and Instrument Panel Wire (Blower Unit RH)
IH2	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BA1	50	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	50	Rear Door RH Wire and Instrument Panel Wire (Right Center Pillar)
BC1	50	Back Door No.1 Wire and Floor Wire (Left Quarter Panel)
BC2		
BF1	50	Back Door No.1 Wire and Back Door No.2 Wire (Back Panel LH)
BF2		



: Ground Points

Code	See Page	Ground Points Location
EC	44 (1ZZ-FE)	Left Side of the Cylinder Head
IE	46	Behind Combination Meter
IG	46	Right Kick Panel
BH	50	Left Quarter Panel



: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I5	48	Instrument Panel Wire	B2	50	Front Door LH Wire
B1	50	Front Door LH Wire	B6	50	Front Door RH Wire