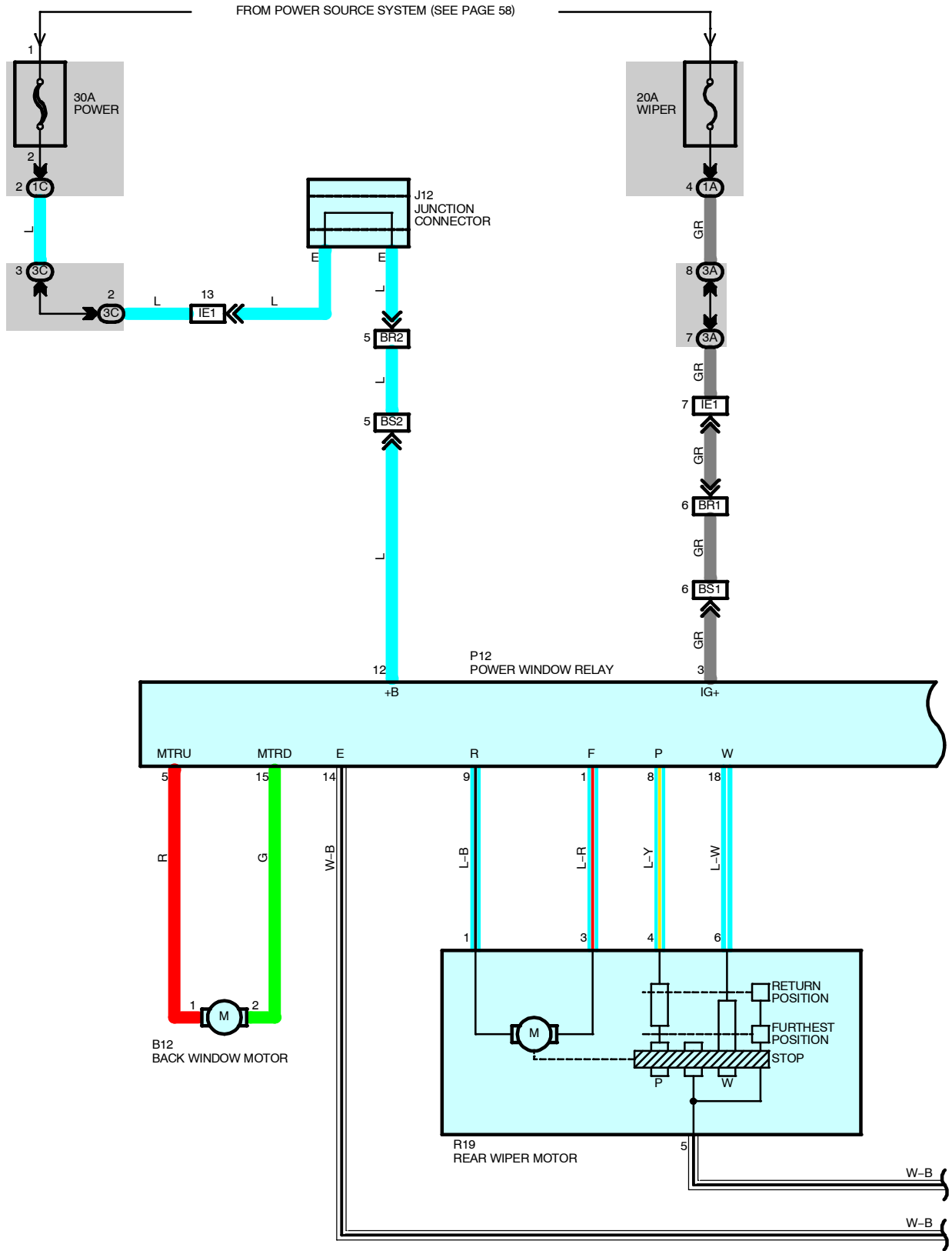
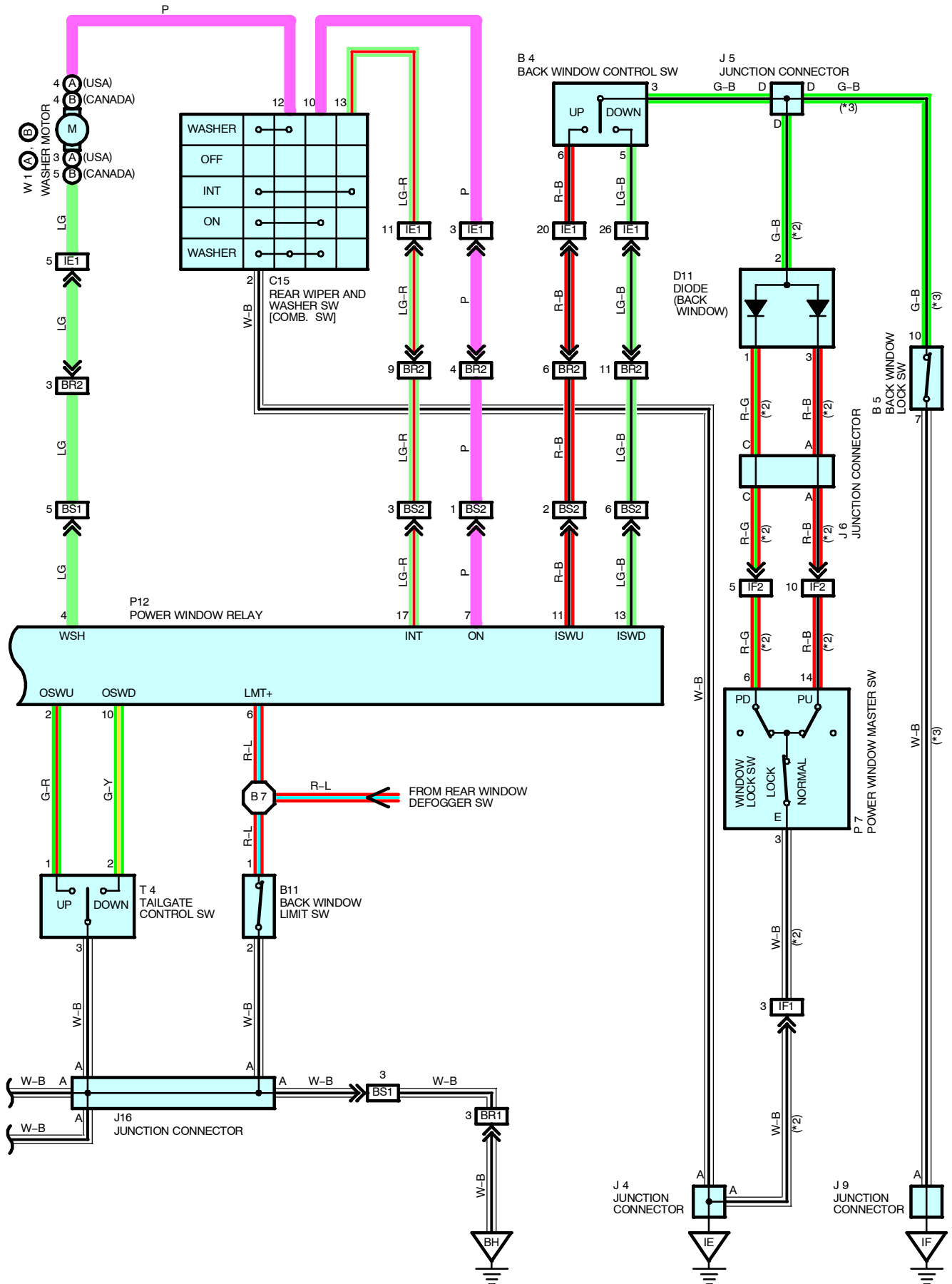


POWER WINDOW (REAR), REAR WIPER AND WASHER



- * 1: 3RZ-FE
- * 2: W/ POWER WINDOW
- * 3: W/ BACK WINDOW LOCK SW



POWER WINDOW (REAR), REAR WIPER AND WASHER

SYSTEM OUTLINE

Current always flows through the **POWER** fuse to **TERMINAL 12** of the power window relay with the ignition SW turned on. The **WIPER** fuse to **TERMINAL 3** of the power window relay.

1. REAR POWER WINDOW MANUAL OPERATION (BACK WINDOW CONTROL SW)

When the back window control SW is pushed to the up side (With the ignition SW on), an "ON" signal is input from **TERMINAL 6** of the back window control SW to **TERMINAL 11** of the power window relay. Thus, the power window relay is activated and the current to **TERMINAL 12** of the power window relay flows to **TERMINAL 14** of the power window relay to **GROUND** so that the current to back window motor flows from **TERMINAL 12** of the power window relay to **TERMINAL 5** to **TERMINAL 1** of the back window motor to **TERMINAL 2** to **TERMINAL 15** of the power window relay to **TERMINAL 14** to **GROUND**. This causes the back window motor to rotate toward the up side and the window ascends only while the back window control SW is being pushed.

To lower the window, the signal input from **TERMINAL 5** of the back window control SW to **TERMINAL 13** of the power window relay causes current to the back window motor to flow from **TERMINAL 12** of the power window relay to **TERMINAL 15** to **TERMINAL 2** of the back window motor to **TERMINAL 1** to **TERMINAL 5** of the power window relay to **TERMINAL 14** to **GROUND**, so the current flows in the reverse direction to manual up operation and causes the motor to rotate in the opposite direction, thus lowering the window.

When the back window lock SW is pushed the lock side, the ground circuit of the back window control SW becomes open. Thus even if the driver operates the Open/Close function of the power window (Rear), the power window (Rear) will not operate because the power window relay does not receive the on signal and the power window relay does not operate.

2. REAR POWER WINDOW MANUAL OPERATION (TAILGATE CONTROL SW)

When the tailgate control SW to the up side a signal is input to **TERMINAL 2** of the window relay from **TERMINAL 1** of the tailgate control SW. This activates the power window relay regardless of whether the ignition SW is on or off, and the current flows from **TERMINAL 12** of the power window relay to **TERMINAL 14**. So the current to the back window motor flows to **TERMINAL 12** of the power window relay to **TERMINAL 5** to **TERMINAL 1** of the back window motor to **TERMINAL 2** to **TERMINAL 15** of the power window relay to **TERMINAL 14** to **GROUND** and causes the back window motor to rotate in the up direction so the back window ascends only while the tailgate control SW is being pushed to lower the window. The on signal of the tailgate control SW (Rotate to down side) is input to **TERMINAL 10**, causing the current to the motor to flow to **TERMINAL 12** of the power window relay to **TERMINAL 15** to **TERMINAL 2** of the back window motor to **TERMINAL 1** to **TERMINAL 5** of the power window relay to **TERMINAL 14** to **GROUND**. This flow is the reverse of manual up, so the motor rotates in the reverse direction and the window is lowered.

3. REAR WIPER OPERATION

Current always flows through the **POWER** fuse to **TERMINAL 12** of the power window relay. With ignition SW turned on and the back door window completely closed (Back window limit SW on), when the rear wiper and washer is turned on, the current to **TERMINAL 12** of the power window relay flows from **TERMINAL 7** of the power window relay to **TERMINAL 10** of the rear wiper and washer SW to **TERMINAL 2** to **GROUND**. Thus the power window relay activates and the current flows from **TERMINAL 12** of the power window relay to **TERMINAL 1** to **TERMINAL 3** of the rear wiper motor to **TERMINAL 1** to **TERMINAL 9** of the power window relay to **TERMINAL 14** to **GROUND** and operates the rear wiper to the upper limit of the wiping area. When the upper limit of the wiping area is reached, the point (Cam plate "P" point) on the wiper motor is turned on (in the case, "W" point of cam plate is off), and the signal to reverse the rear wiper motor is input to **TERMINAL 8** of the power window relay. The power window relay stops the rear wiper motor for about 0.1 seconds and the current flows from **TERMINAL 9** of the power window relay to **TERMINAL 1** of the rear wiper motor to **TERMINAL 3** to **TERMINAL 1** of the power window relay to **TERMINAL 14** to **GROUND**. As a result, the rear wiper motor reverses and stops the rear wiper before the retraction position. At that time, the point (Cam plate "W" point) on the rear wiper motor is turned on (in this case, "P" point of cam plate is off), and the signal to rotate the motor is input to **TERMINAL 1** of the power window relay to **TERMINAL 3** of the rear wiper motor to **TERMINAL 1** to **TERMINAL 9** of the power window relay to **TERMINAL 14** to **GROUND** and the rear wiper SW off, the signal to **TERMINAL 18** of the power window relay from "W" point of cam plate is cancelled and the wiping function is continued when "P" point is turned on. The rear wiper continues beyond the rear wiper area to the retraction position. At that time, "P" and "W" points are turned on, the power window relay stops operating, and the current to the rear wiper is cut off to cam plate rear wiper operation.

4. WASHER OPERATION

With the ignition SW turned on and back window closed completely (Back window limit SW on), when the rear wiper and washer SW is turned strongly (Rear washer SW on), current flows from **TERMINAL 12** or **3** of the power window relay to **TERMINAL 4** to **TERMINAL 3** (USA), **5** (Canada) of the washer motor to **TERMINAL 4** to **TERMINAL 12** of the rear wiper and washer SW to **TERMINAL 2** to **GROUND** and causes the rear window washer to emit a water spray only while the rear washer SW is turned. When the rear wiper SW is off, and the rear wiper SW is then turned in the off direction, washer liquid will also spray.

SERVICE HINTS

T4 TAILGATE CONTROL SW

2-3 : Continuity with tailgate control SW at down side

1-3 : Continuity with tailgate control SW at up side

C15 REAR WIPER AND WASHER SW [COMB. SW]

12-2 : Continuity with rear wiper and washer SW at **WASHER** position

10-2 : Continuity with rear wiper and washer SW at **ON** position

P12 POWER WINDOW RELAY

3-GROUND: Approx. **12** volts with ignition SW at **ON** position

12-GROUND: Always approx. **12** volts

14-GROUND: Always continuity

5-GROUND: Approx. **12** volts with back window at **UP** operation

15-GROUND: Approx. **12** volts with back window at **DOWN** operation

11-GROUND: Continuity with ignition SW on and back window control SW at **UP** position

13-GROUND: Continuity with ignition SW on and back window control SW at **DOWN** position

2-GROUND: Continuity with tailgate control SW at **UP** position

10-GROUND: Continuity with tailgate control SW at **DOWN** position

B5 BACK WINDOW LOCK SW

10-7 : Open with back window lock SW at **LOCK** position

B11 BACK WINDOW LIMIT SW

1-2 : Closed with back power window fully closed

R19 REAR WIPER MOTOR

4, 6-5: Continuity with rear wiper retracted

4-5: Continuity with rear wiper at **RETURN** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B4	30	J4	31	P7	33
B5	30	J5	31	P12	33
B11	32	J6	31	R19	33
B12	32	J9	31	T4	33
C15	30	J12	32	W1	A 27 (5VZ-FE),29 (3RZ-FE)
D11	30	J16	32		B 27 (5VZ-FE),29 (3RZ-FE)

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	22	Cowl Wire and Driver Side J/B (Lower Finish Panel)
1C		
3A	24	Cowl Wire and Center J/B (Near the Steering Column Tube)
3C		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	40	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IF1	40	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IF2		
BR1	42	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BR2		
BS1	42	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)
BS2		

POWER WINDOW (REAR), REAR WIPER AND WASHER

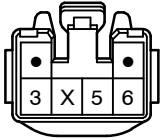
▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	40	Cowl Side Panel LH
IF	40	Cowl Side Panel RH
BH	42	Left Quarter Panel Inner

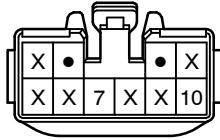
○ : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B7	42	Back Door No. 2 Wire			

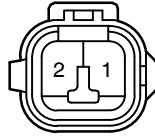
B4



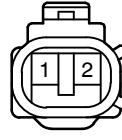
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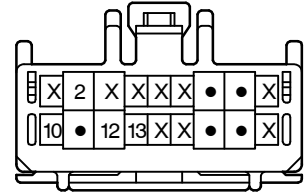
B11



B12 GRAY



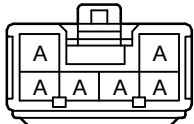
C15 BLACK



D11



J4, J9



(Hint : See Page 7)

J5 BLACK



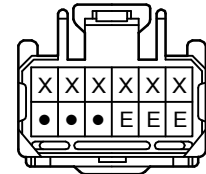
(Hint : See Page 7)

J6 BLACK



(Hint : See Page 7)

J12 BLACK



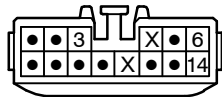
(Hint : See Page 7)

J16 BLUE

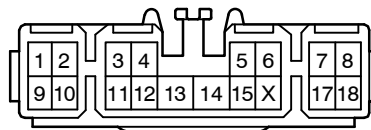


(Hint : See Page 7)

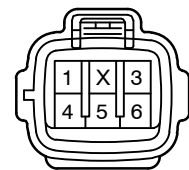
P7



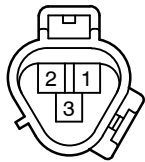
P12



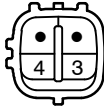
R19 BLACK



T4 GRAY



(USA) W1 (A) DARK GRAY



(Canada) W1 (B) BLACK

