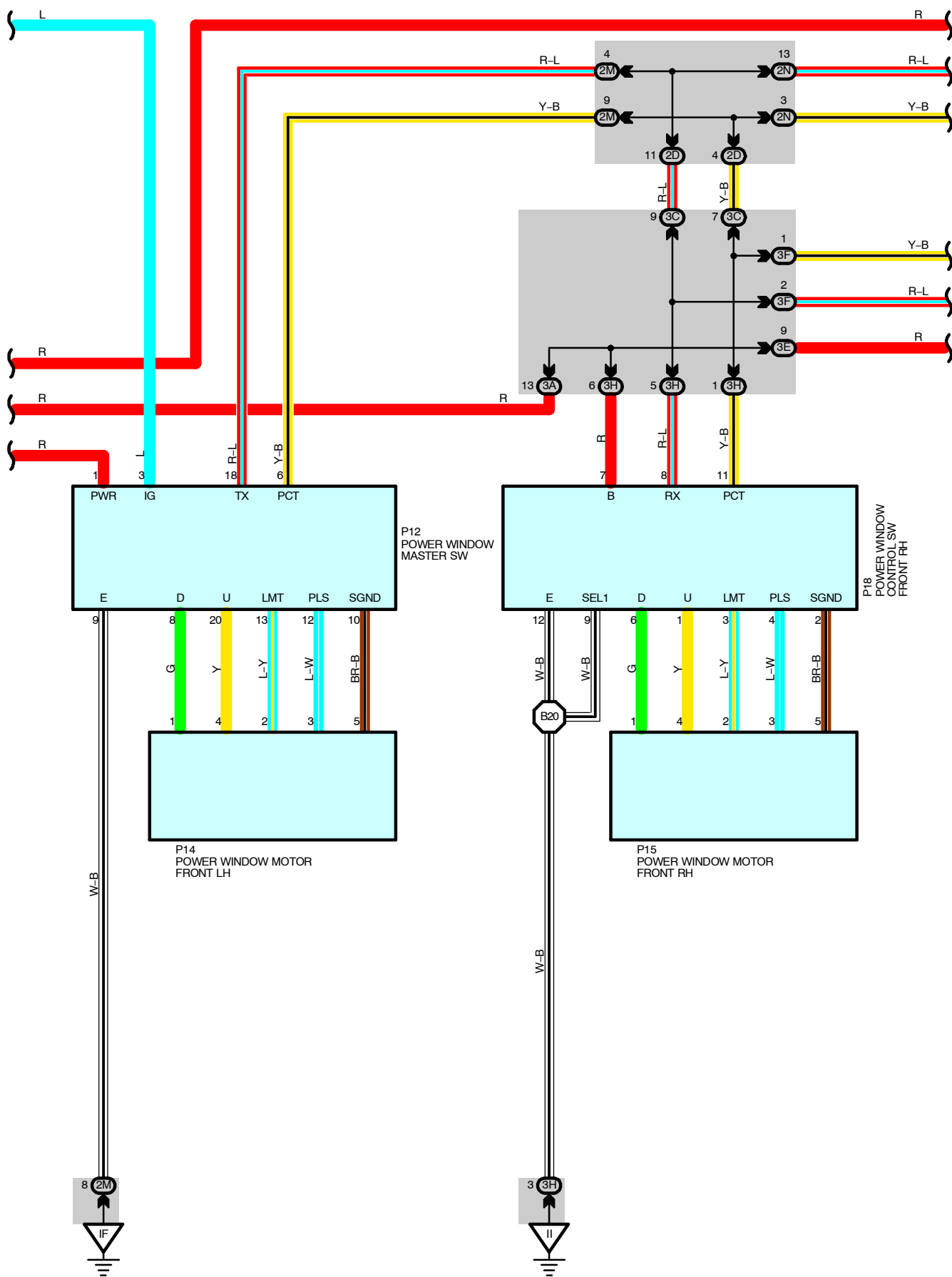
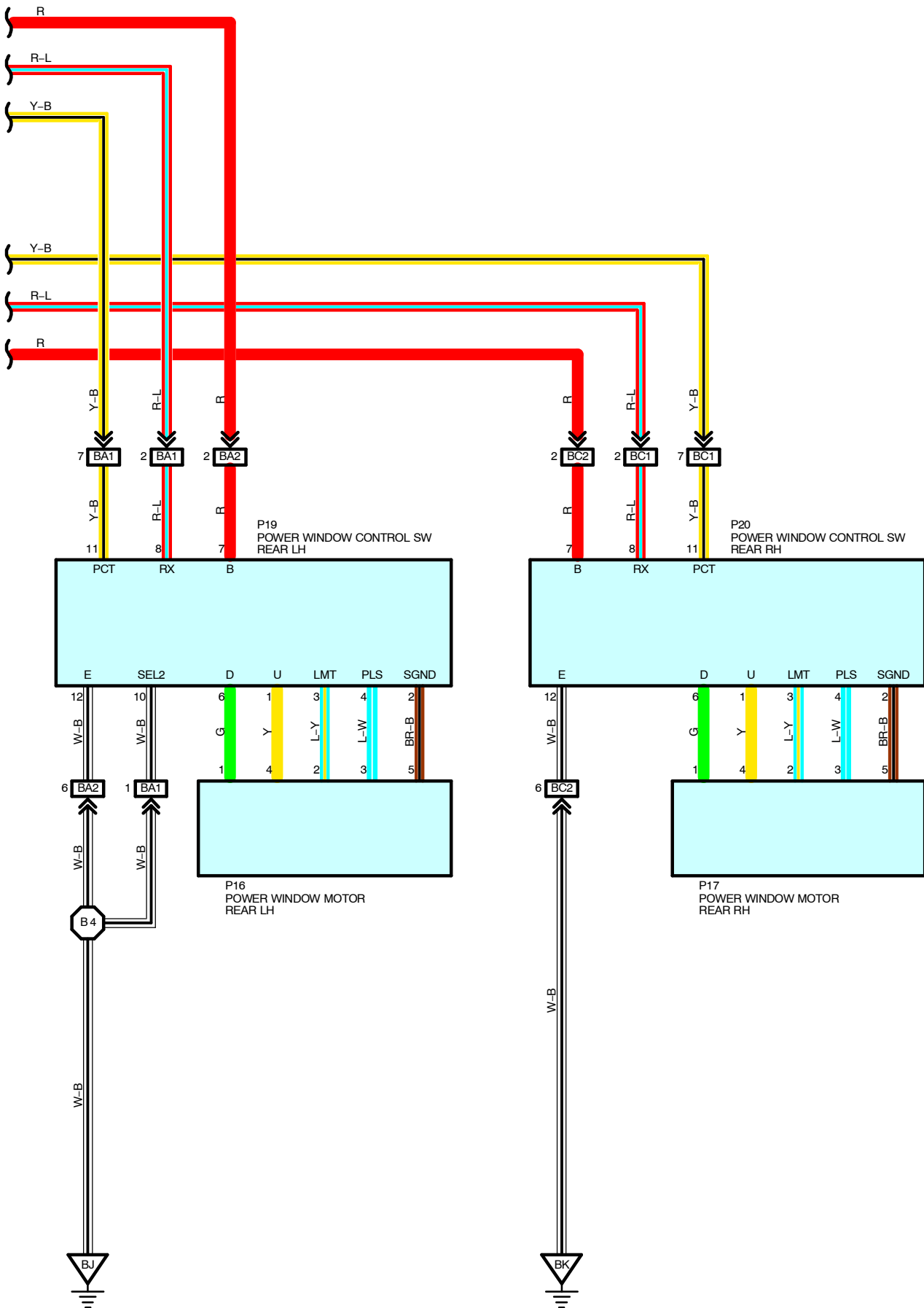




POWER WINDOW



SYSTEM OUTLINE

1. MANUAL DOWN OR UP OPERATION

When the power window master SW is pressed one step, the current flows from the power window master SW TERMINAL D to power window motor front LH to power window master SW TERMINAL U to GROUND, and rotates the motor to open the window.

When the power window master SW is pulled one step, the current flows from the power window master SW TERMINAL U to power window motor front LH to power window master SW TERMINAL D to GROUND, and rotates the motor to close the window.

For the other windows, as the power window master SW and power window SW is operated, the relevant door window is opened or closed.

2. AUTO DOWN OR UP OPERATION

When the power window master SW is pushed two steps, the power window master SW determines it is in auto mode and the current flows from the power window master SW TERMINAL D to power window motor front LH to power window master SW TERMINAL U to GROUND, and rotates the motor to open the window automatically.

When the power window master SW is pulled two steps, the power window master SW determines it is in auto mode and the current flows from the power window master SW TERMINAL U to power window motor front LH to power window master SW TERMINAL D to GROUND, and rotates the motor to close the window automatically.

Accordingly, when each window switch of the power window control SW is operated, the relevant door window is automatically opened/closed.

3. CATCHING PREVENTION FUNCTION

When any foreign matter is caught in the window during power window up operation, the pulse sensor in the power window motor detects the changes in the number of motor rotations and forcibly opens the door window 50 mm, or when the window opening is less than 200 mm, it opens the window until the opening is 200 mm.

4. KEY OFF POWER WINDOW OPERATION

It is possible to operate the power window for approx. 43 seconds after the ignition SW is turned from on to off. However, when the door is opened while the window is being operated, the power window operation is stopped even though 43 seconds have not elapsed.

SERVICE HINTS

P12 POWER WINDOW MASTER SW

- 1-GROUND : Always approx. 12 volts
- 3-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position
: Approx. 12 volts with key off power window operation
- 9-GROUND : Always continuity
- 20-GROUND : Continuity with power window master SW at **MANUAL UP** position
: Continuity with power window master SW at **AUTO UP** position
- 8-GROUND : Continuity with power window master SW at **MANUAL DOWN** position
: Continuity with power window master SW at **AUTO DOWN** position

P18 POWER WINDOW CONTROL SW FRONT RH

- 7-GROUND : Always approx. 12 volts
- 9, 12-GROUND : Always continuity
- 1-GROUND : Continuity with power window control SW at **MANUAL UP** position
: Continuity with power window control SW at **AUTO UP** position
- 6-GROUND : Continuity with power window control SW at **MANUAL DOWN** position
: Continuity with power window control SW at **AUTO DOWN** position

P19 POWER WINDOW CONTROL SW REAR LH

- 7-GROUND : Always approx. 12 volts
- 10, 12-GROUND : Always continuity
- 1-GROUND : Continuity with power window control SW at **MANUAL UP** position
: Continuity with power window control SW at **AUTO UP** position
- 6-GROUND : Continuity with power window control SW at **MANUAL DOWN** position
: Continuity with power window control SW at **AUTO DOWN** position

P20 POWER WINDOW CONTROL SW REAR RH

- 7-GROUND : Always approx. 12 volts
- 12-GROUND : Always continuity
- 1-GROUND : Continuity with power window control SW at **MANUAL UP** position
: Continuity with power window control SW at **AUTO UP** position
- 6-GROUND : Continuity with power window control SW at **MANUAL DOWN** position
: Continuity with power window control SW at **AUTO DOWN** position

POWER WINDOW

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
D14	42	J17	41	P15	43
D15	42	J19	41	P16	43
I19	40	J27	41	P17	43
I21	40	J28	41	P18	43
J9	41	J29	41	P19	43
J10	41	P12	43	P20	43
J15	41	P14	43		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2D	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2M	26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3A	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3C	32	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3F		
3H	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
BA1	56	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)
BA2		
BC1	56	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BC2		

: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
IH	48	Set Bolt of Cowl Side J/B RH
II		
BJ	56	Under the Driver's Seat
BK	56	Front Side Under the Front Passenger's Seat

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B4	58	Floor Wire	B20	60	Front Seat LH Wire