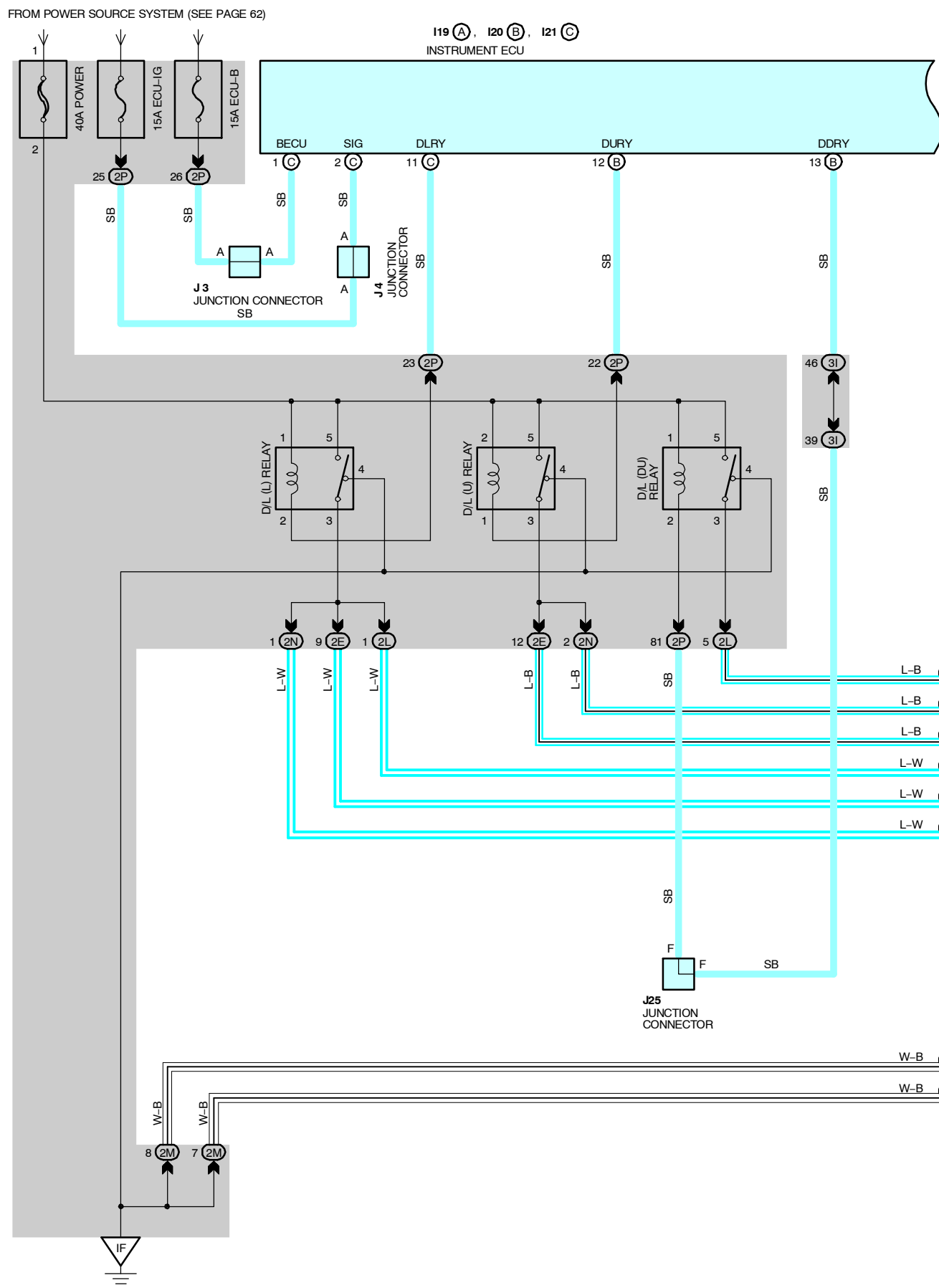
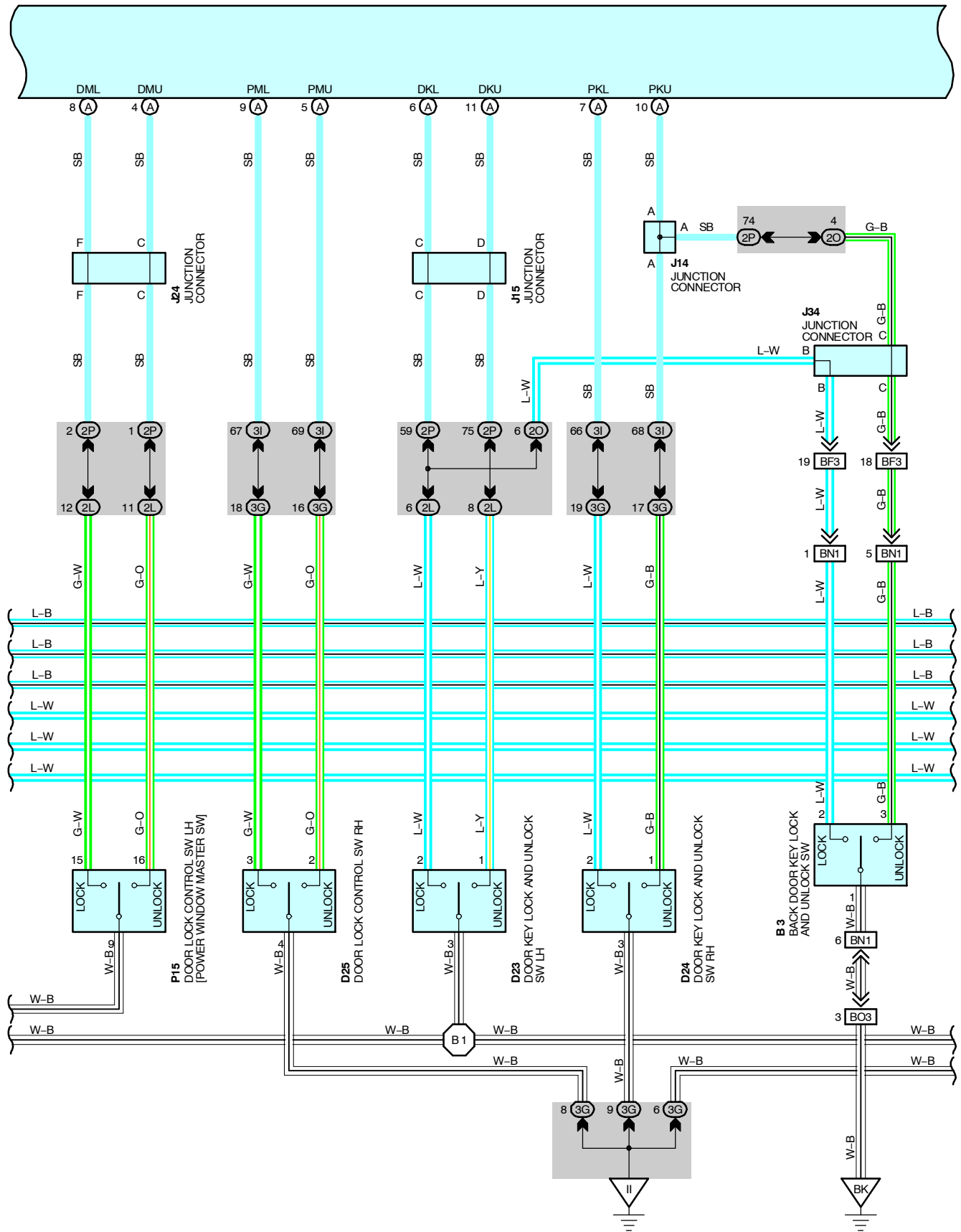


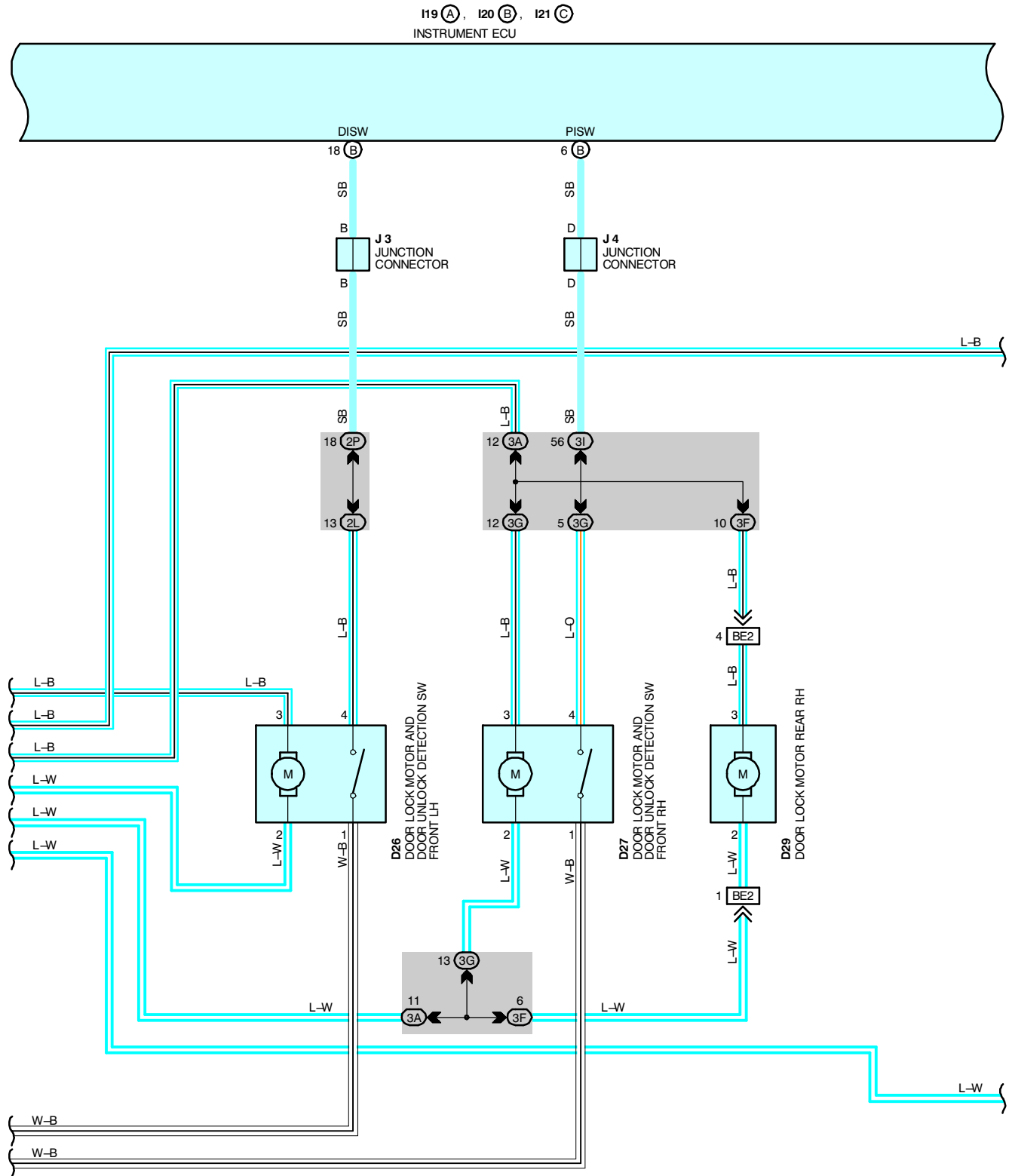
## DOOR LOCK CONTROL



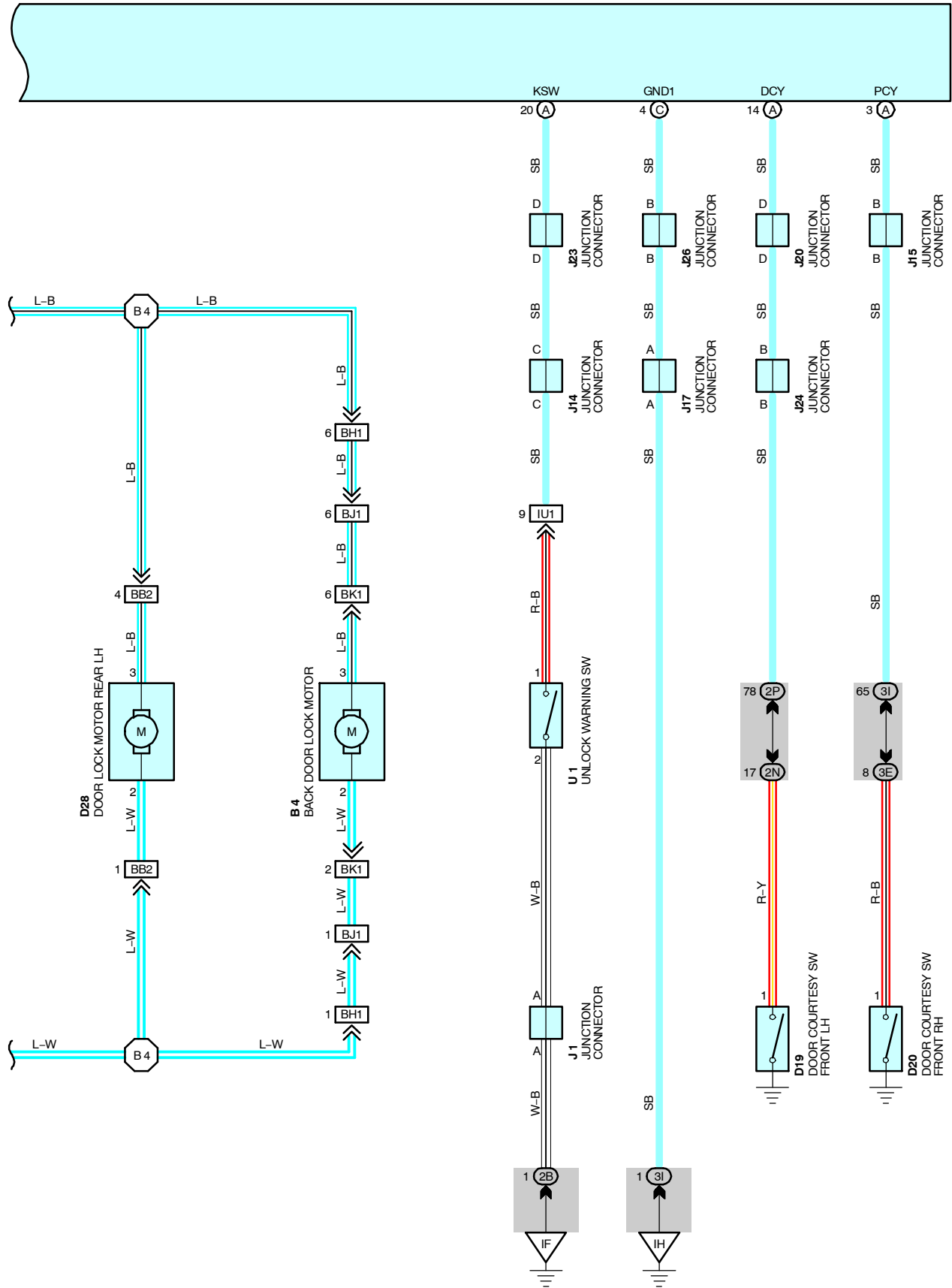
I19 (A), I20 (B), I21 (C)  
INSTRUMENT ECU



# DOOR LOCK CONTROL



I19 (A), I20 (B), I21 (C)  
INSTRUMENT ECU



# DOOR LOCK CONTROL

## SYSTEM OUTLINE

### 1. MANUAL UNLOCK OPERATION

When the door lock control SW of the driver or front passenger door is pressed to unlock side, a signal is input to the instrument ECU **TERMINAL DMU** and **TERMINAL PMU**, respectively. Then the current flows from the **POWER** fuse to D/L (U) relay (Coil side) to instrument ECU **TERMINAL DURY** to **TERMINAL GND1** to **GROUND**, and turns on the D/L (U) relay and D/L (DU) relay. At the same time, the current flows from the **POWER** fuse to D/L (U) relay, D/L (DU) relay **TERMINAL 5** to **TERMINAL 3** to door lock motor and back door lock motor to D/L (L) relay **TERMINAL 3** to **TERMINAL 4** to **GROUND**, and unlocks the door.

### 2. MANUAL LOCK OPERATION

When the door lock control SW of the driver or front passenger door is pressed to lock side, a signal is input to the instrument ECU **TERMINAL DML** and **TERMINAL PML**, respectively. Then the current flows from the **POWER** fuse to D/L (L) relay (Coil side) to instrument ECU **TERMINAL DLRY** to **TERMINAL GND1** to **GROUND**. This turns on the D/L (L) relay and the current flows from the **POWER** fuse to D/L (L) relay **TERMINAL 5** to **TERMINAL 3** to door lock motor and back door lock motor to D/L (U) relay. D/L (DU) relay **TERMINAL 3** to **TERMINAL 4** to **GROUND**, and locks the door.

### 3. DOOR KEY UNLOCK OPERATION

#### \* Unlock operation from driver door

When the door is unlocked once by the ignition key from the driver side, a signal is input from door key lock and unlock SW LH to instrument ECU **TERMINAL DKU**. As a result, the instrument ECU operates and the current flows from **POWER** fuse to D/L (DU) relay (Coil side) to instrument ECU **TERMINAL DDRY** to **TERMINAL GND1** to **GROUND**, and turns on the D/L (DU) relay. At the same time, the current flows from the **POWER** fuse to D/L (DU) relay **TERMINAL 5** to **TERMINAL 3** to door lock motor front LH to D/L (L) relay **TERMINAL 3** to **TERMINAL 4** to **GROUND**, and unlocks the driver door only. Accordingly, if the second unlock operation is made within **3** seconds, a signal is input to instrument ECU **TERMINAL DKU**, and the current flows as manual unlock operation, and unlocks all the doors.

#### \* Unlock operation from front passenger or back door

When the front passenger door or back door is unlocked using the ignition key, a signal from the door key lock and unlock SW RH and/or back door key lock and unlock SW is input to instrument ECU **TERMINAL PKU**. As a result, the current flows as manual unlock operation and unlocks all the doors at once.

### 4. IGNITION KEY REMINDER OPERATION

When the door is locked using the door lock knob with the ignition key remaining in the key cylinder and door opened, it is automatically unlocked. Additionally, if lock operation is made by the door lock control SW or door key lock SW, after the lock operation is completed, the doors are unlocked automatically.

## SERVICE HINTS

### I19 (A), I21 (C) INSTRUMENT ECU

- (C) 1-GROUND : Always approx. **12** volts
- (C) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- (C) 4-GROUND : Always continuity
- (A) 3-GROUND : Continuity with front RH door open
- (A) 14-GROUND : Continuity with front LH door open
- (A) 20-GROUND : Continuity with ignition key in ignition key cylinder

### D26, D27 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW FRONT LH, RH

- 2-GROUND : Approx. **12** volts with door lock motor at lock operate
- 3-GROUND : Approx. **12** volts with door lock motor at unlock operate

### D28, D29 DOOR LOCK MOTOR REAR LH, RH

- 2-GROUND : Approx. **12** volts with door lock motor at lock operate
- 3-GROUND : Approx. **12** volts with door lock motor at unlock operate

### B4 BACK DOOR LOCK MOTOR

- 2-GROUND : Approx. **12** volts with door lock motor at lock operate
- 3-GROUND : Approx. **12** volts with door lock motor at unlock operate

 : PARTS LOCATION

| Code | See Page | Code  | See Page | Code | See Page |
|------|----------|-------|----------|------|----------|
| B3   | 40       | D29   | 40       | J20  | 39       |
| B4   | 40       | I19 A | 38       | J23  | 39       |
| D19  | 40       | I20 B | 38       | J24  | 39       |
| D20  | 40       | I21 C | 38       | J25  | 39       |
| D23  | 40       | J1    | 39       | J26  | 39       |
| D24  | 40       | J3    | 39       | J34  | 40       |
| D25  | 40       | J4    | 39       | P15  | 41       |
| D26  | 40       | J14   | 39       | U1   | 39       |
| D27  | 40       | J15   | 39       |      |          |
| D28  | 40       | J17   | 39       |      |          |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                      |
|------|----------|---------------------------------------------------------------------------|
| 2B   | 24       | Dash Wire and Cowl Side J/B LH (Left Kick Panel)                          |
| 2E   | 24       | Engine Room No. 2 Wire and Cowl Side J/B LH (Left Kick Panel)             |
| 2L   | 24       | Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)                 |
| 2M   |          |                                                                           |
| 2N   | 24       | Floor Wire and Cowl Side J/B LH (Left Kick Panel)                         |
| 2O   |          |                                                                           |
| 2P   | 26       | Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)  |
| 3A   | 30       | Engine Room No. 2 Wire and Cowl Side J/B RH (Right Kick Panel)            |
| 3E   | 30       | Floor No. 2 Wire and Cowl Side J/B RH (Right Kick Panel)                  |
| 3F   |          |                                                                           |
| 3G   | 30       | Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)                |
| 3I   | 30       | 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)                       |
|------|----------|----------------------------------------------------------------------------------|
| IU1  | 50       | Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)           |
| BB2  | 54       | Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)                    |
| BE2  | 54       | Rear Door RH Wire and Floor No. 2 Wire (Right Side of Center Pillar)             |
| BF3  | 54       | Floor No. 3 Wire and Floor Wire (Left Rear Side Quarter Panel)                   |
| BH1  | 54       | Luggage Room Wire and Floor Wire (Left Rear Side Quarter Panel)                  |
| BJ1  | 56       | Pillar No. 1 Wire and Luggage Room Wire (Left Rear Side Roof Panel)              |
| BK1  | 56       | Pillar No. 1 Wire and Back Door Upper Wire (Left Side of Back Door)              |
| BN1  | 56       | Back Door Lower Wire and Floor No. 3 Wire (Right Side of Rear Floor Crossmember) |
| BO3  | 56       | Floor No. 2 Wire and Floor No. 3 Wire (Right Side of Rear Floor Crossmember)     |

 : GROUND POINTS

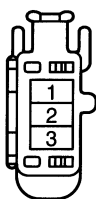
| Code | See Page | Ground Points Location                      |
|------|----------|---------------------------------------------|
| IF   | 46       | Set Bolt of Cowl Side J/B LH                |
| IH   | 46       | Set Bolt of Cowl Side J/B RH                |
| II   |          |                                             |
| BK   | 54       | Front Side Under the Front Passenger's Seat |

 : SPLICE POINTS

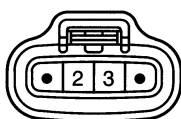
| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|----------|---------------------------------|
| B1   | 56       | Front Door LH Wire              | B4   | 56       | Floor Wire                      |

# DOOR LOCK CONTROL

**B3**



**B4**  
BLACK



**D19, D20**



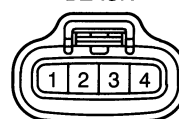
**D23, D24**  
GRAY



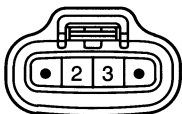
**D25**



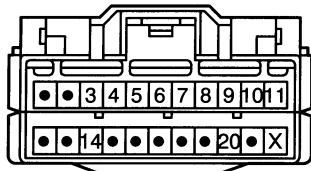
**D26, D27**  
BLACK



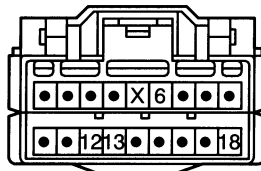
**D28, D29**  
BLACK



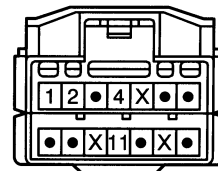
**I19 (A)**



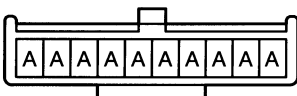
**I20 (B)**



**I21 (C)**  
BLUE

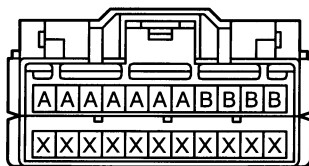


**J1**



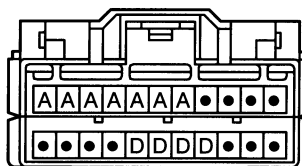
(Hint : See Page 7)

**J3**  
GRAY



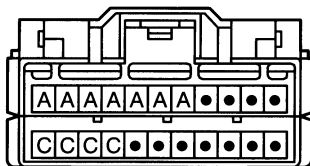
(Hint : See Page 7)

**J4**



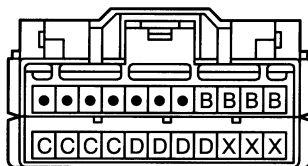
(Hint : See Page 7)

**J14**



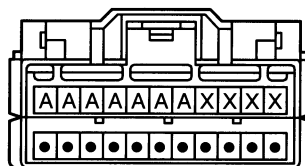
(Hint : See Page 7)

**J15**  
GRAY



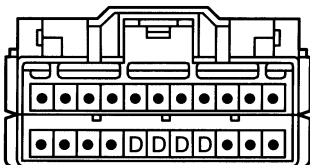
(Hint : See Page 7)

**J17**



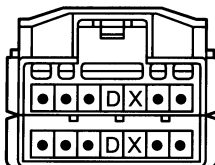
(Hint : See Page 7)

**J20**  
GRAY



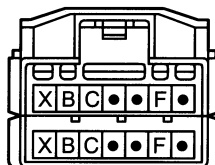
(Hint : See Page 7)

**J23**  
BLUE



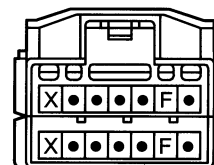
(Hint : See Page 7)

**J24**  
GRAY



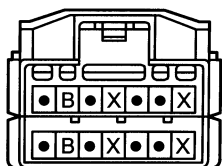
(Hint : See Page 7)

**J25**



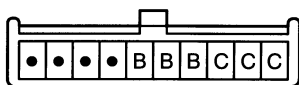
(Hint : See Page 7)

**J26**



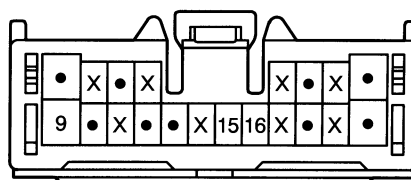
(Hint : See Page 7)

**J34**  
BLUE



(Hint : See Page 7)

**P15**



**U1**



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