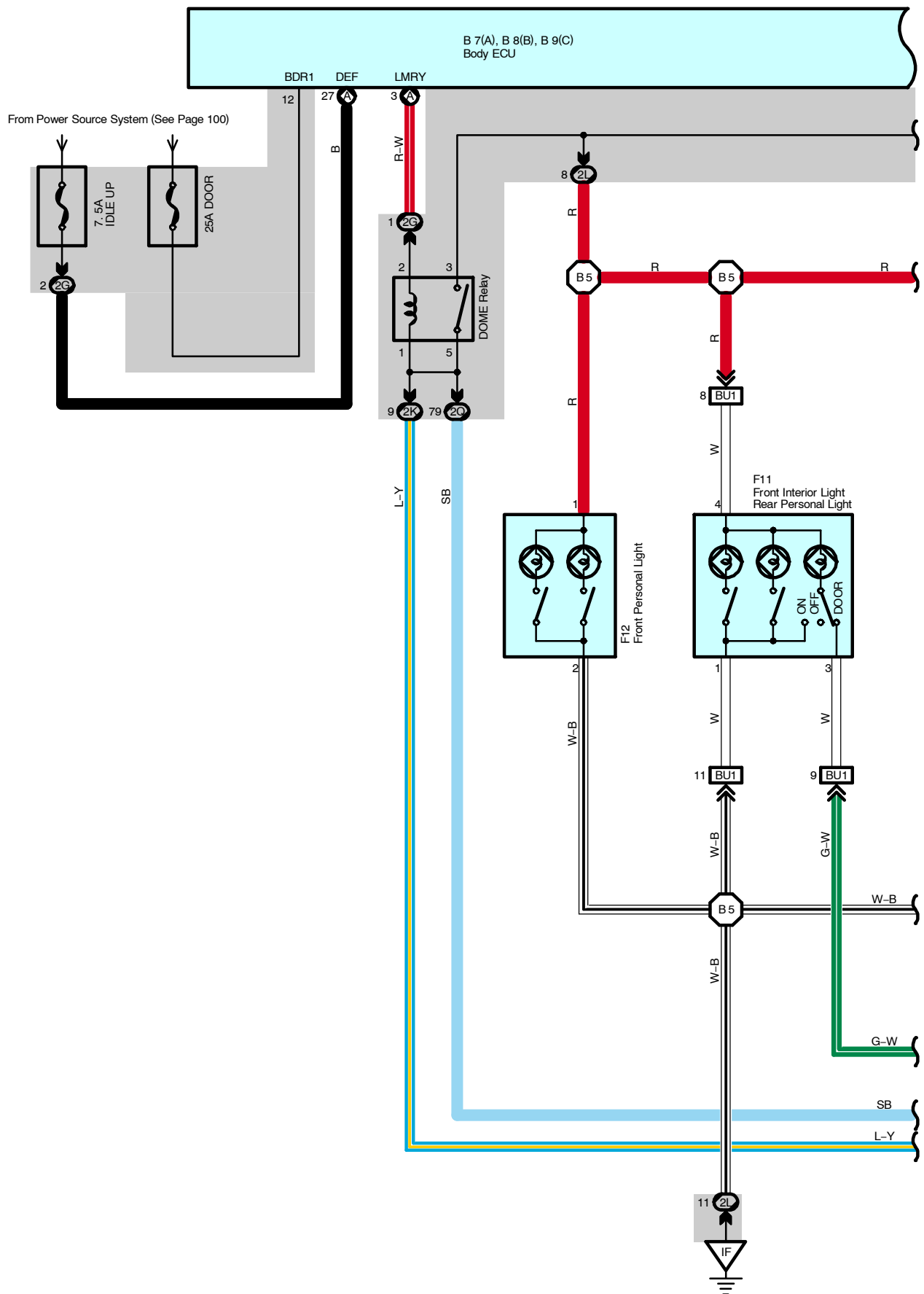
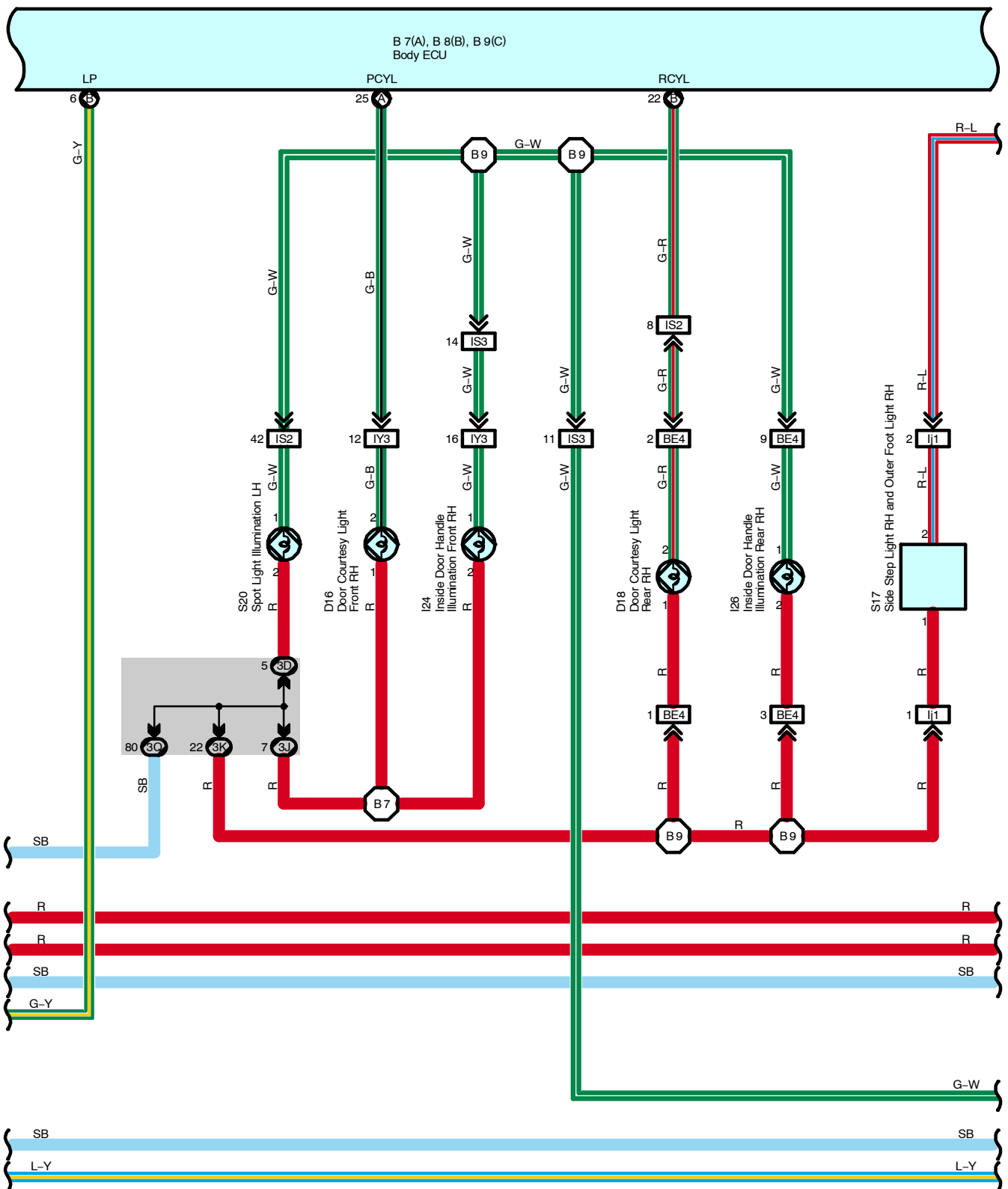
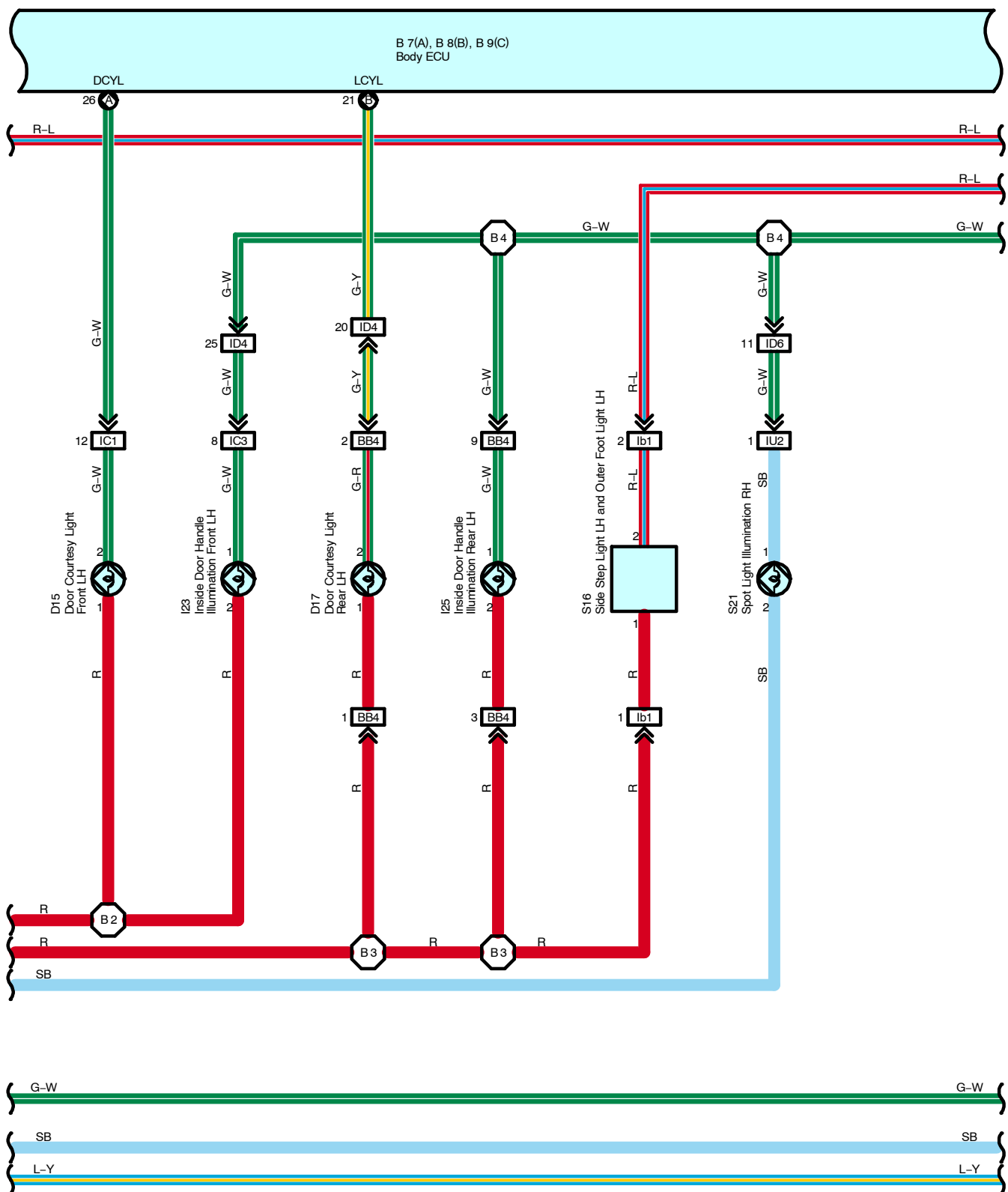


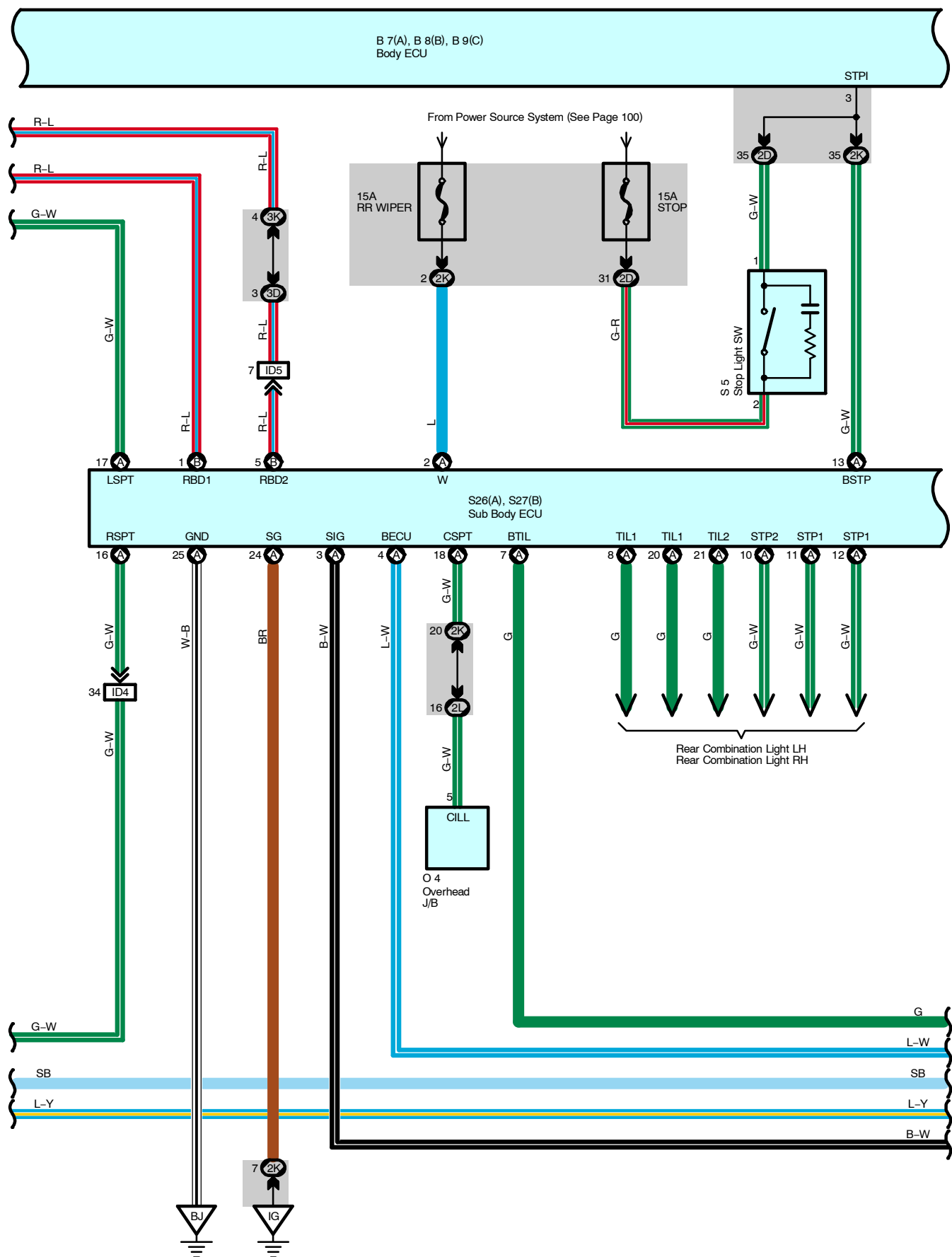


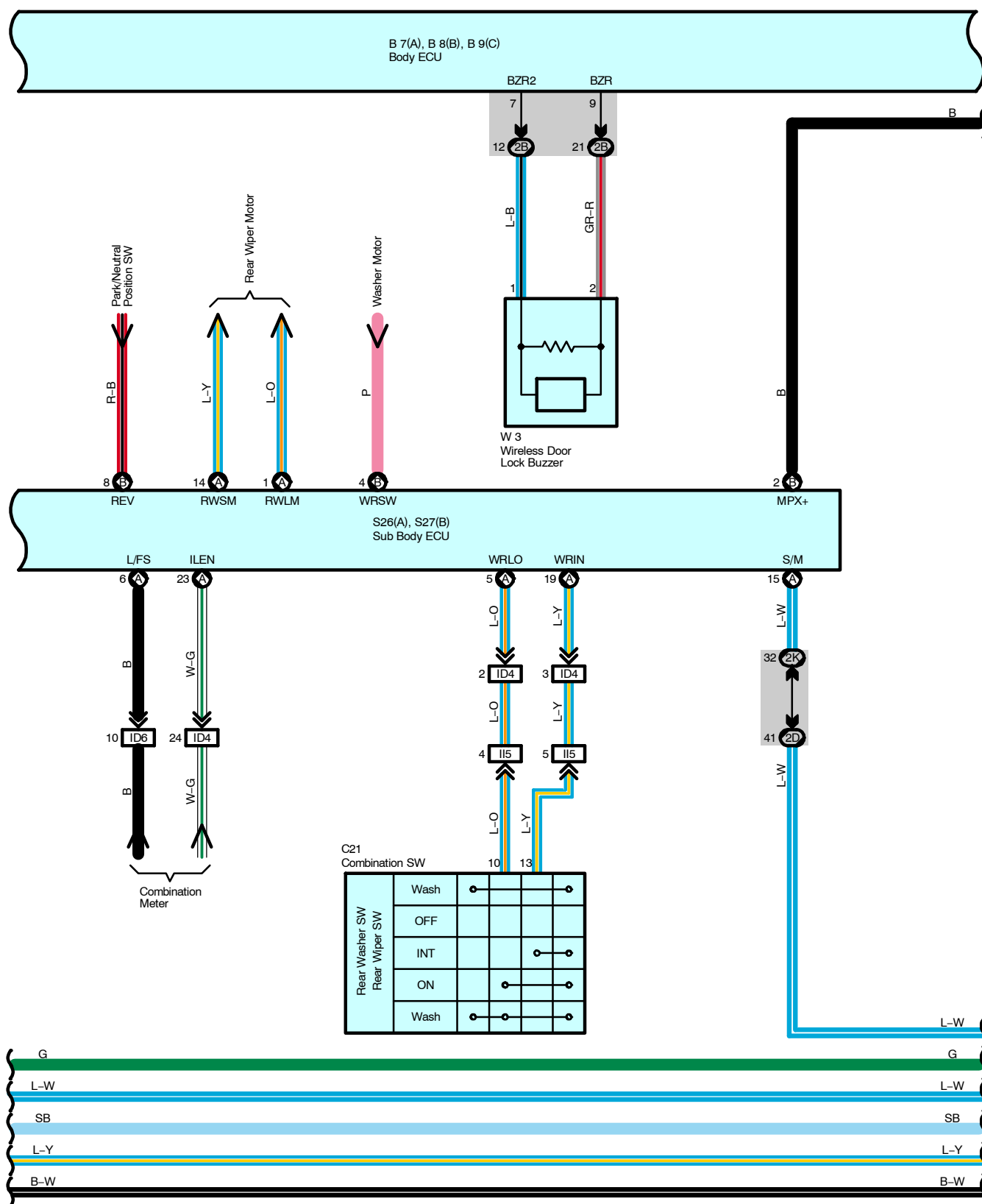




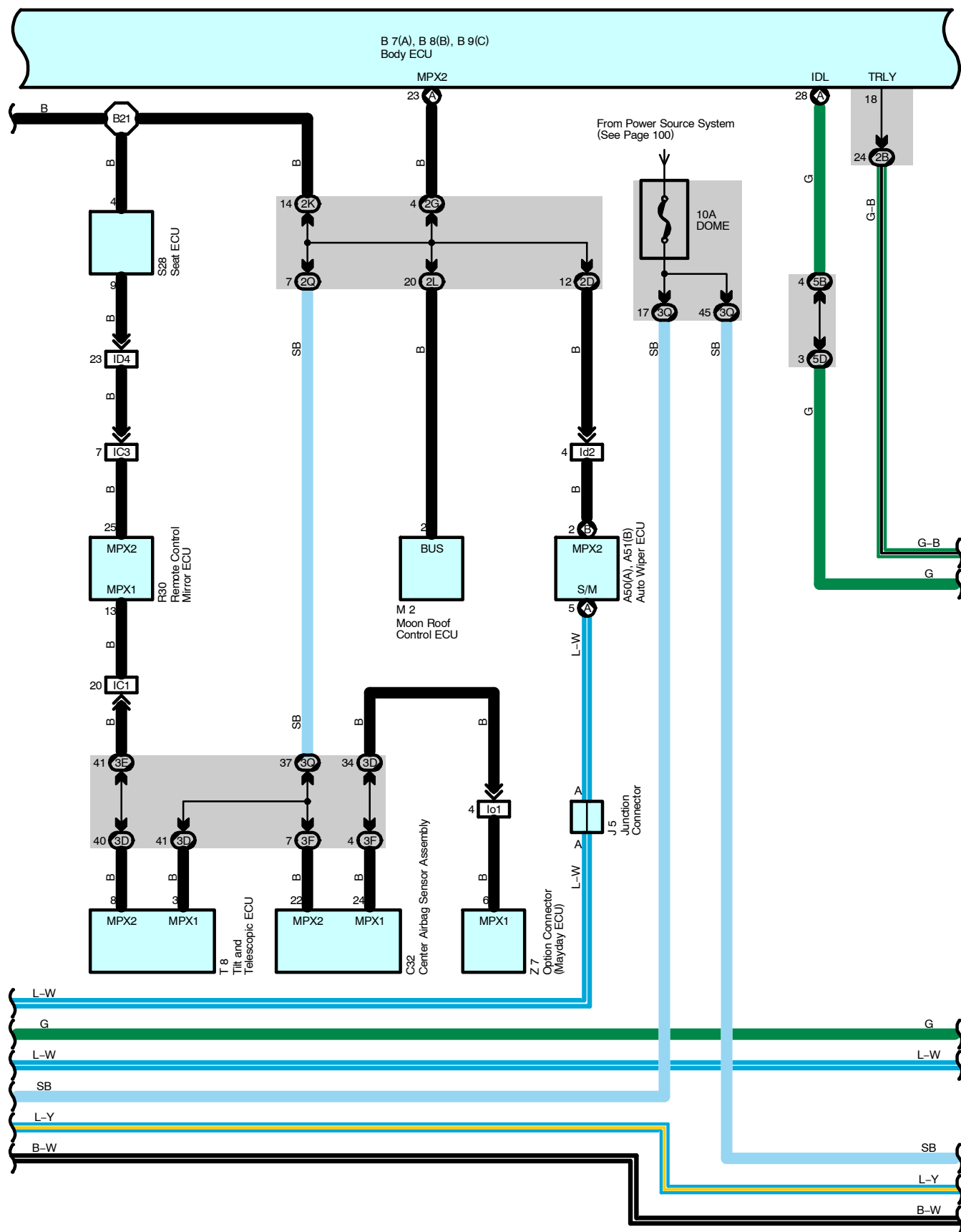


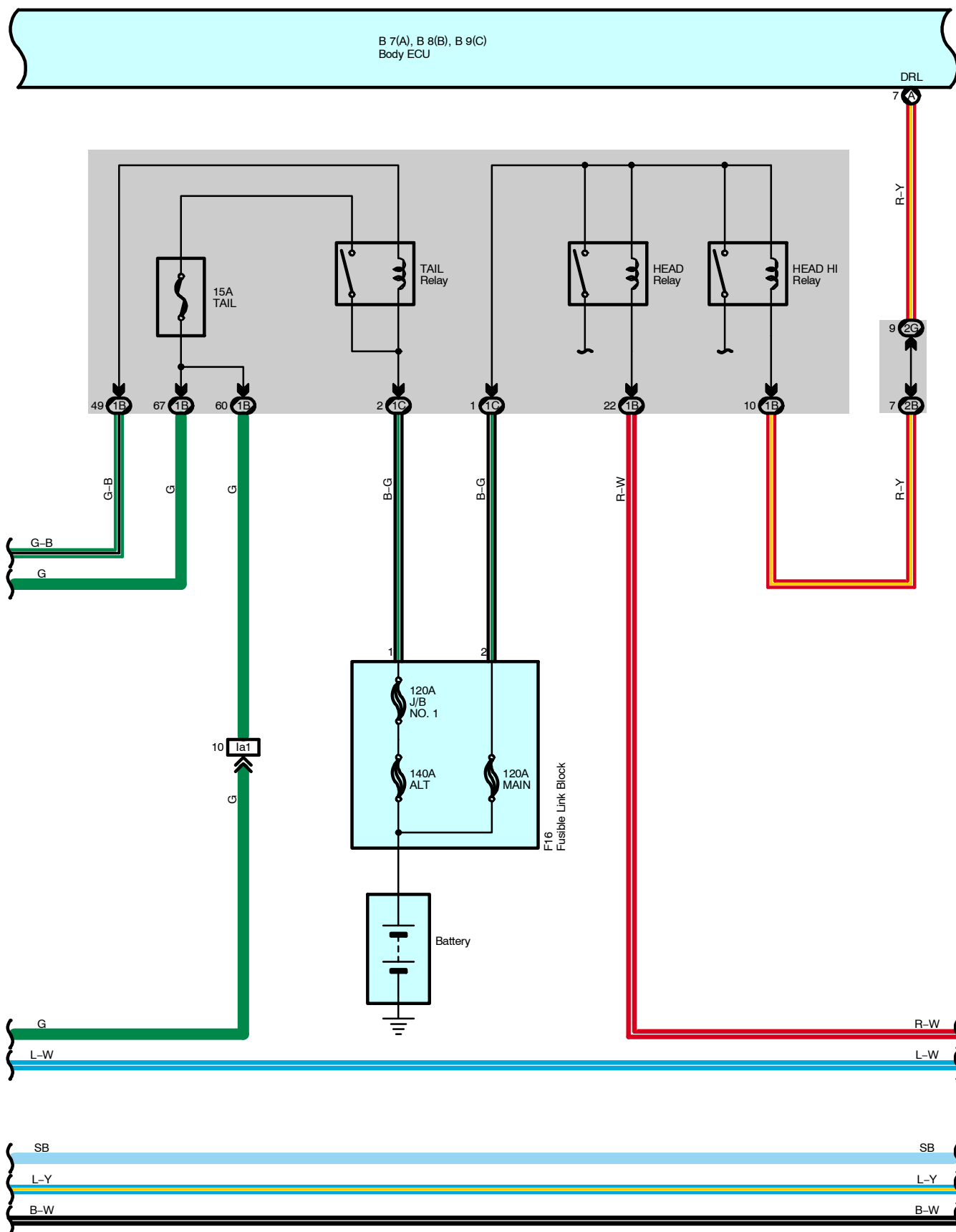
# Multiplex Communication System





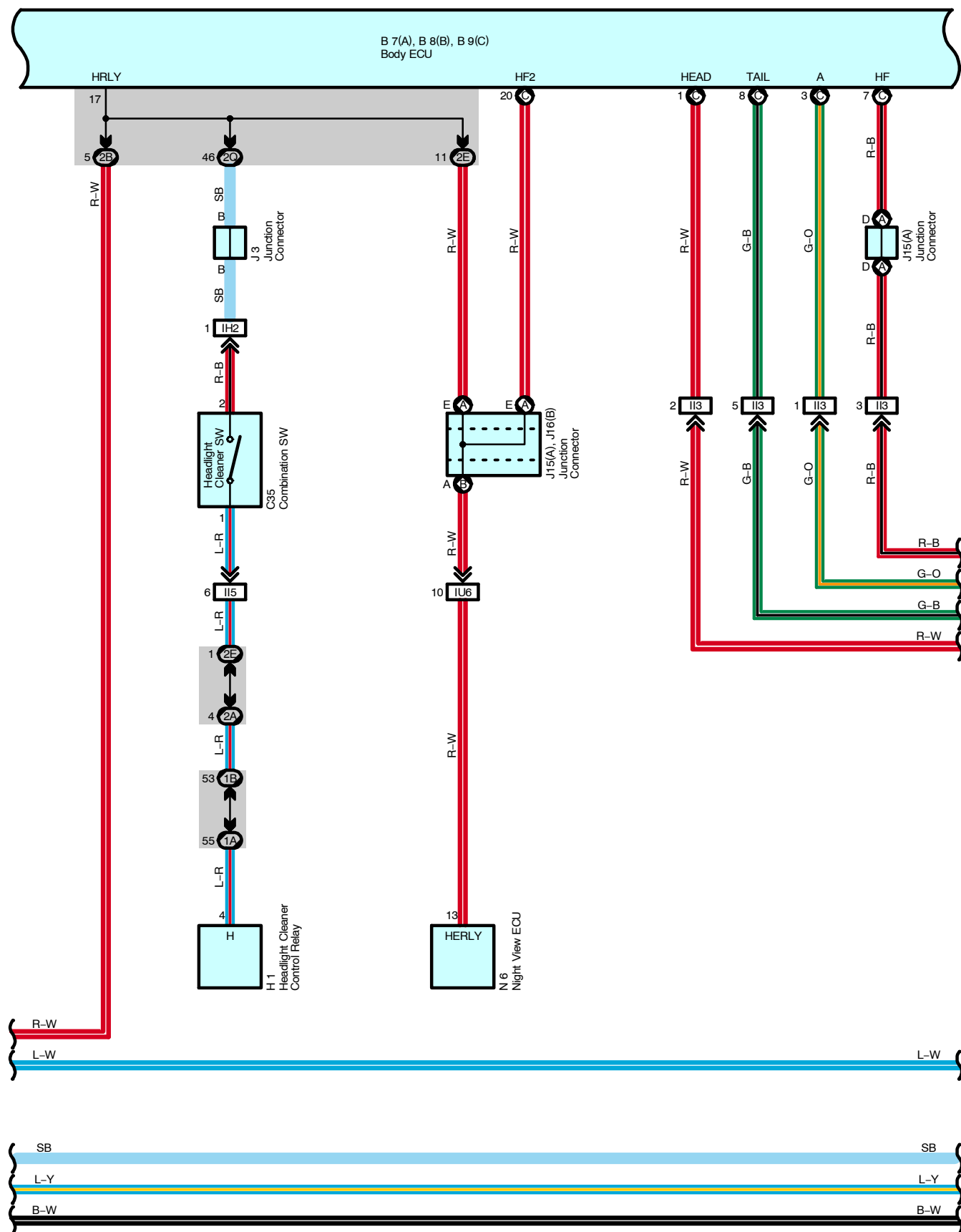
# Multiplex Communication System



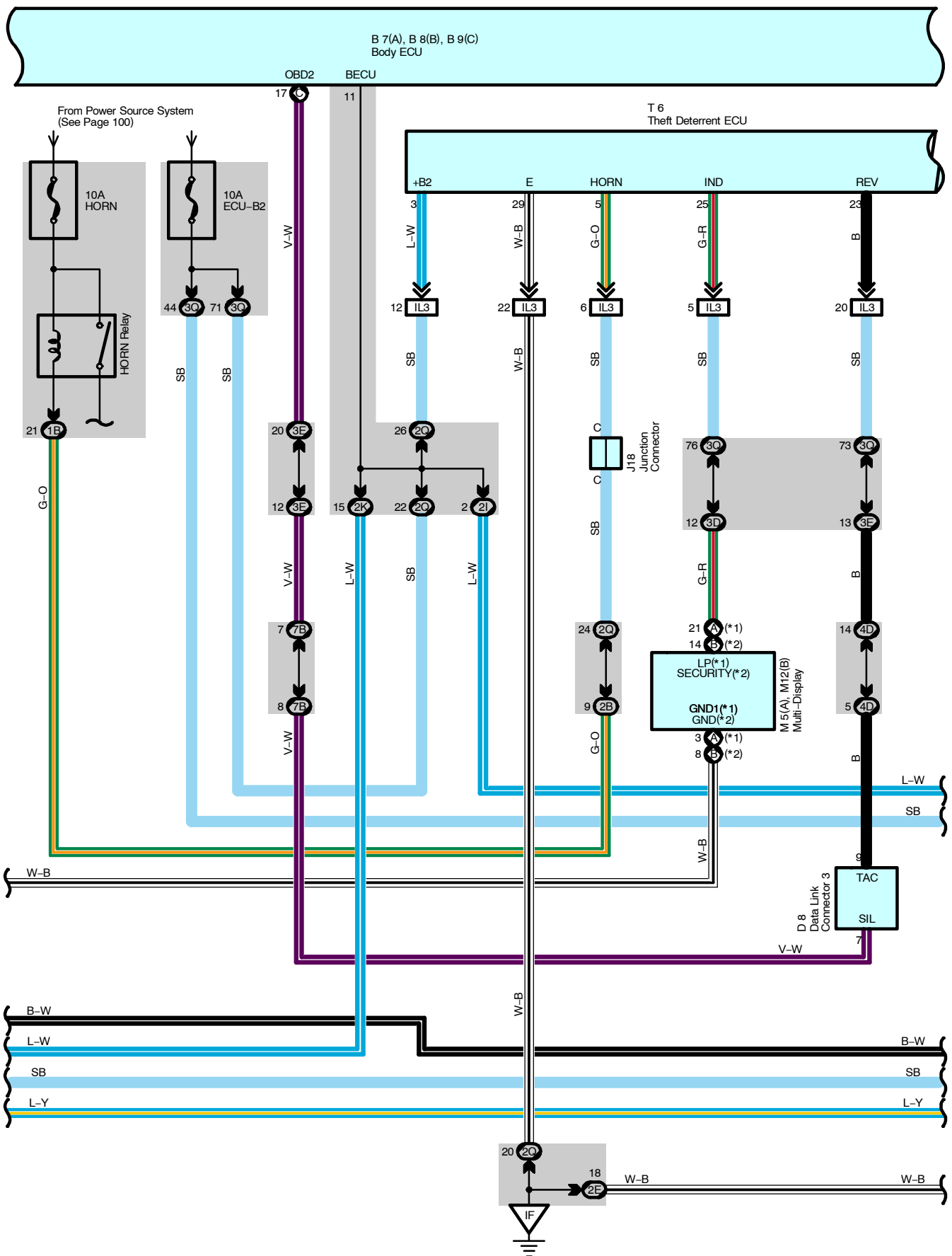


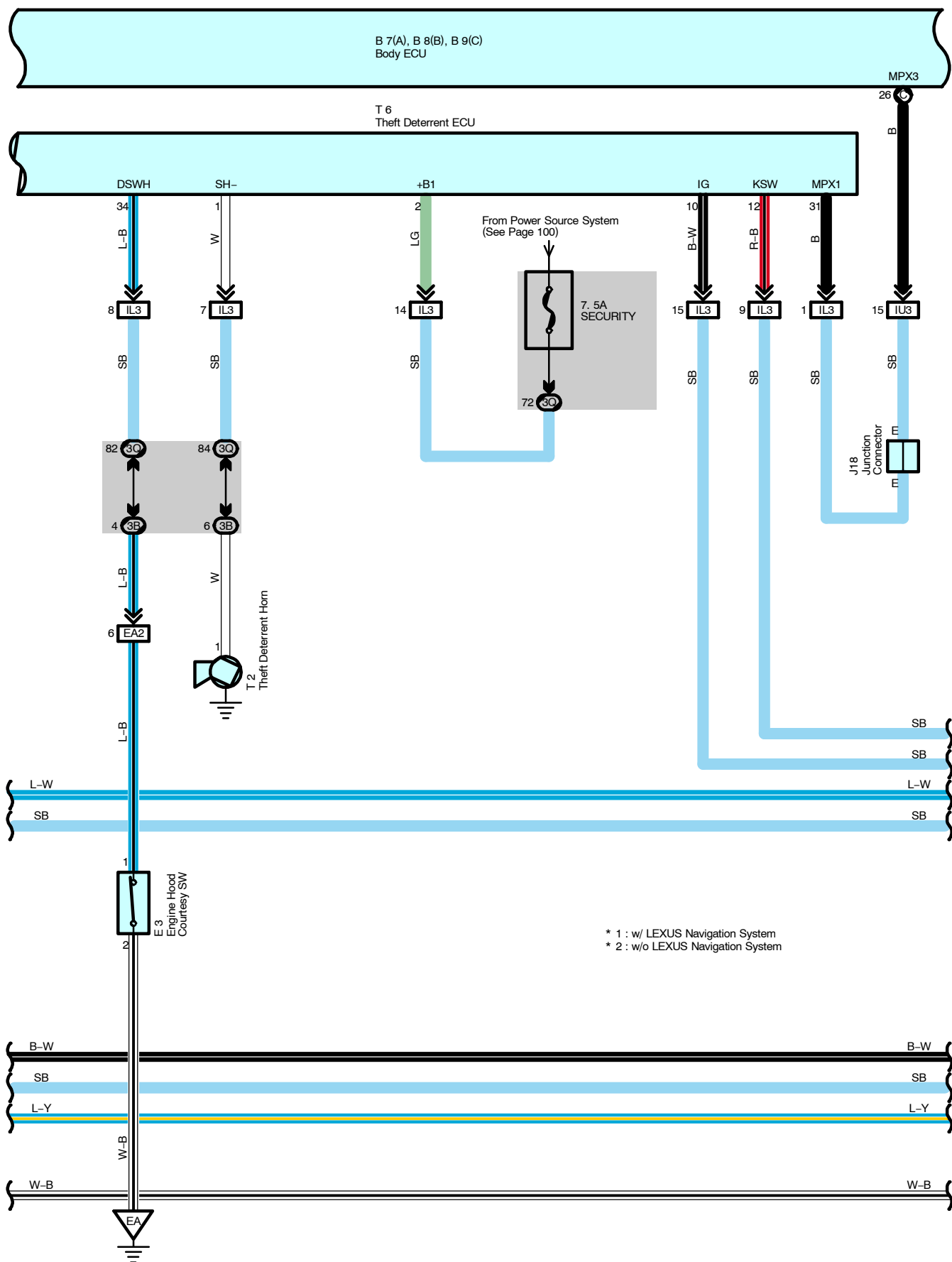


# Multiplex Communication System

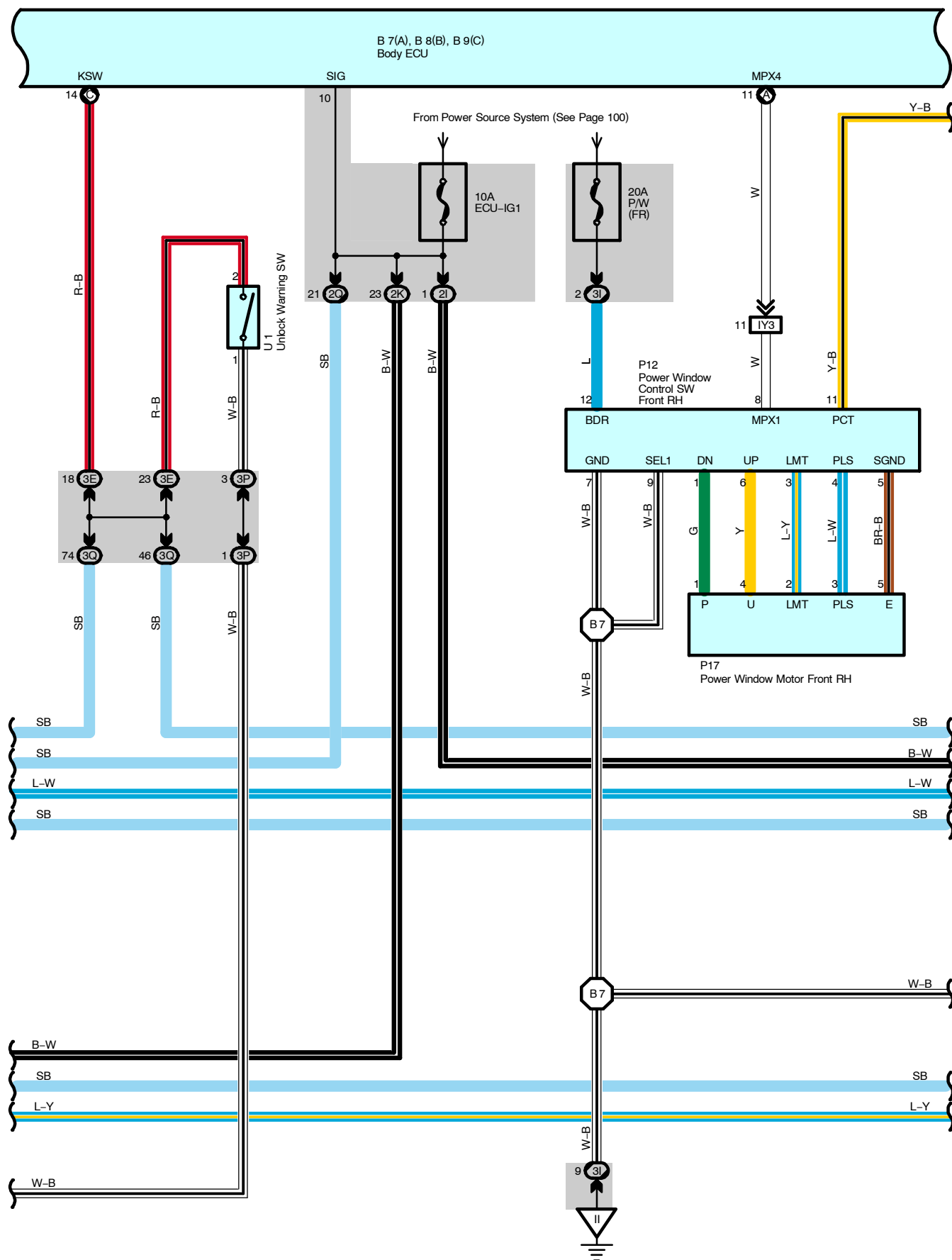


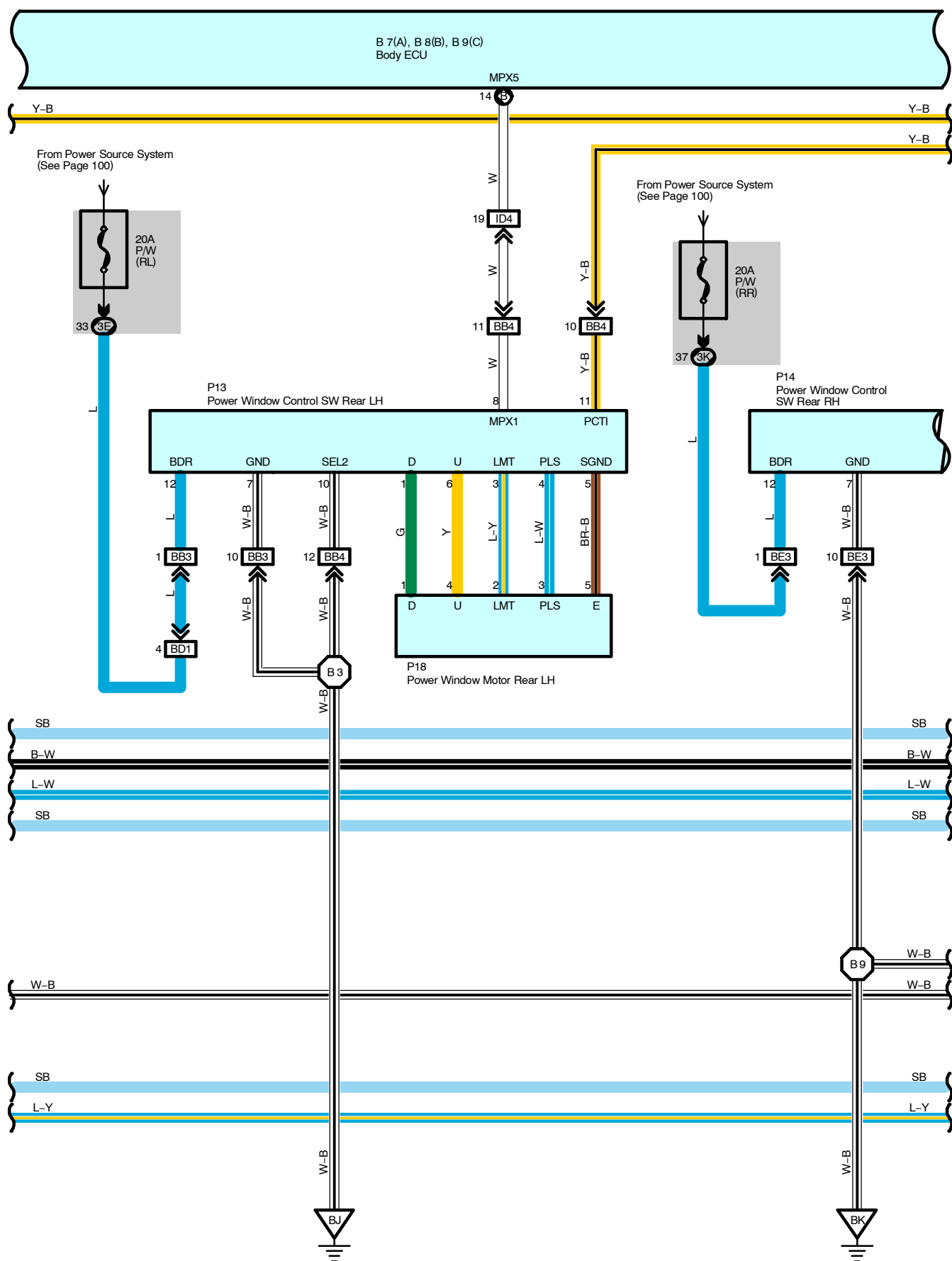




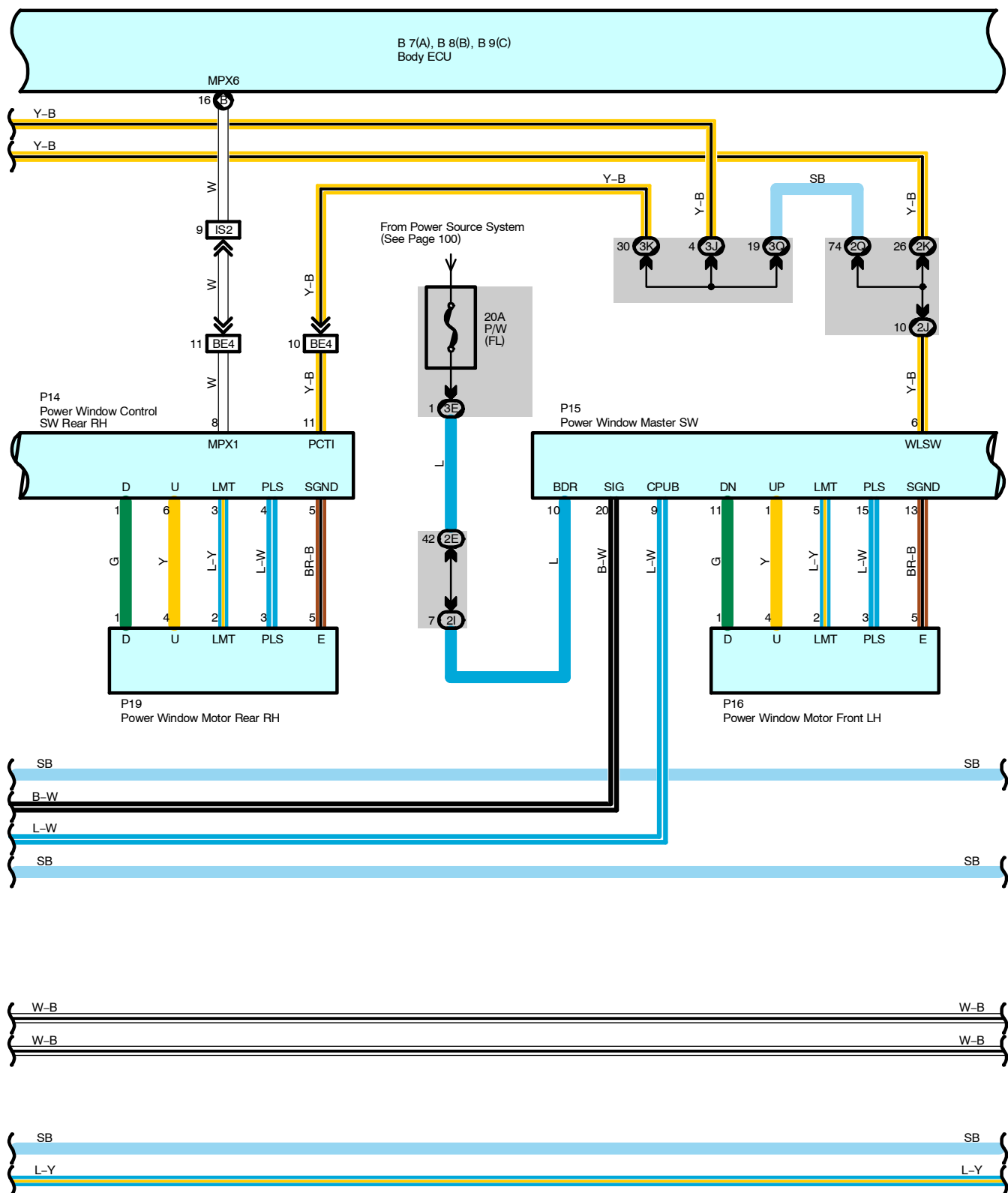


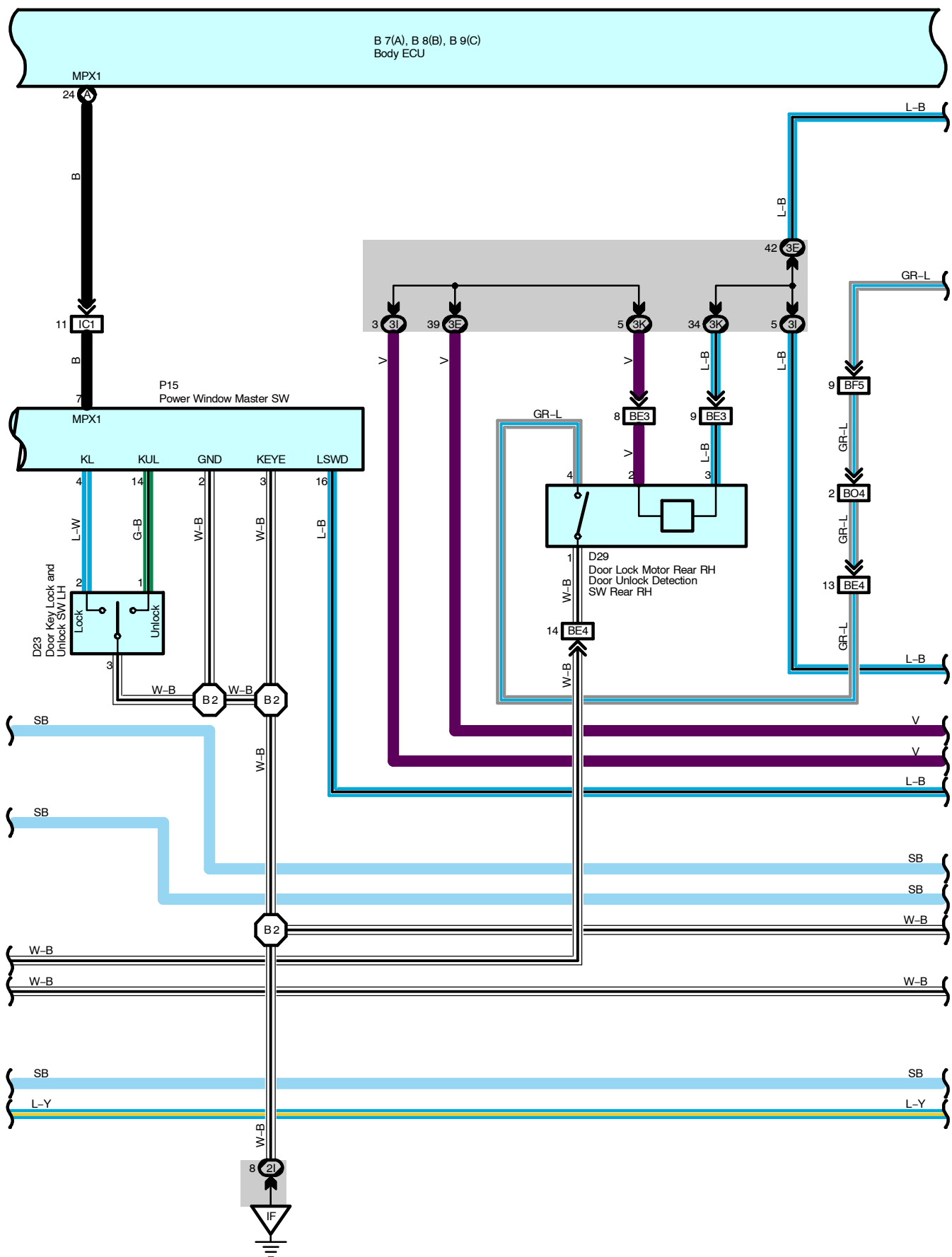
# Multiplex Communication System



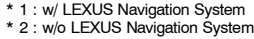


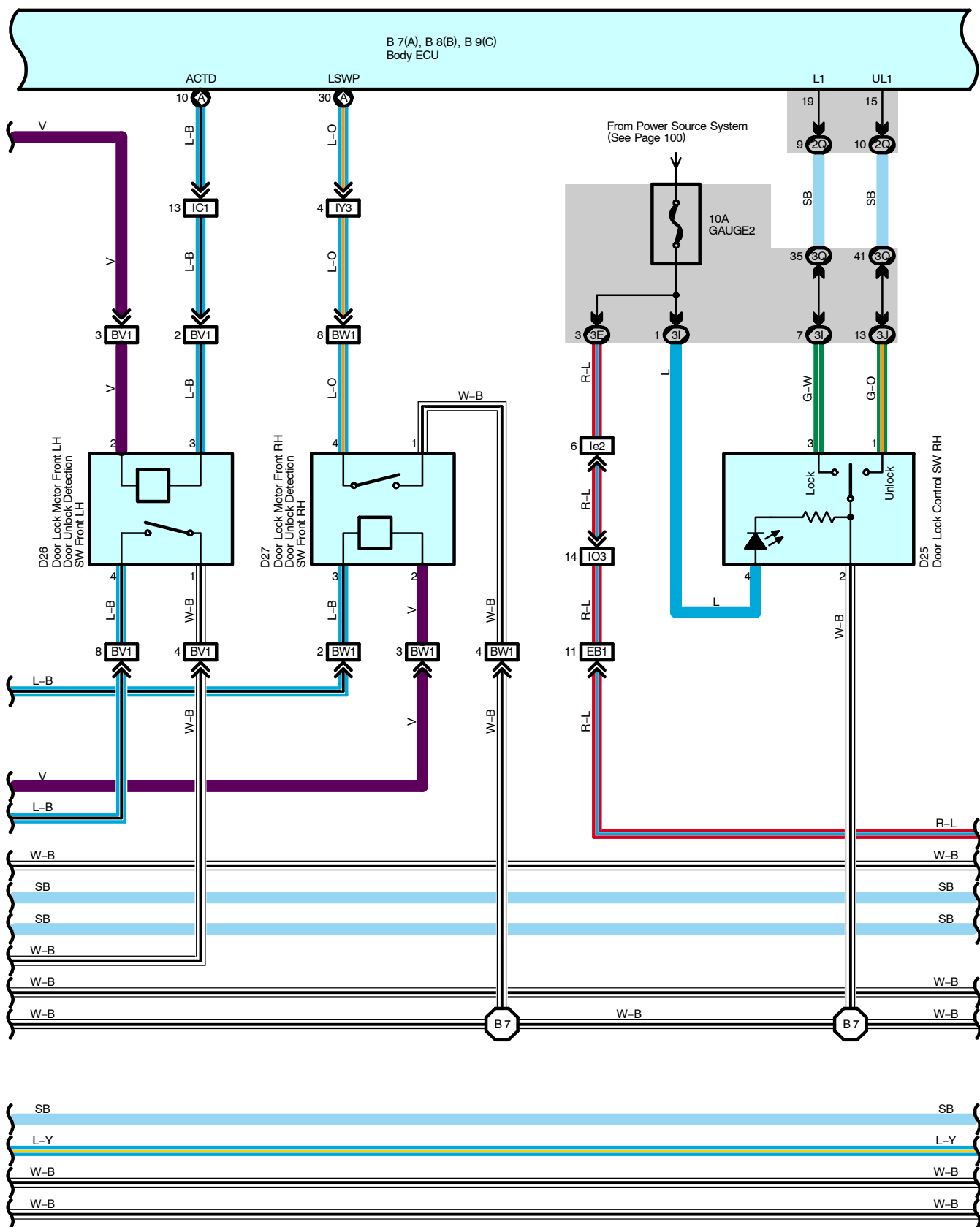
# Multiplex Communication System



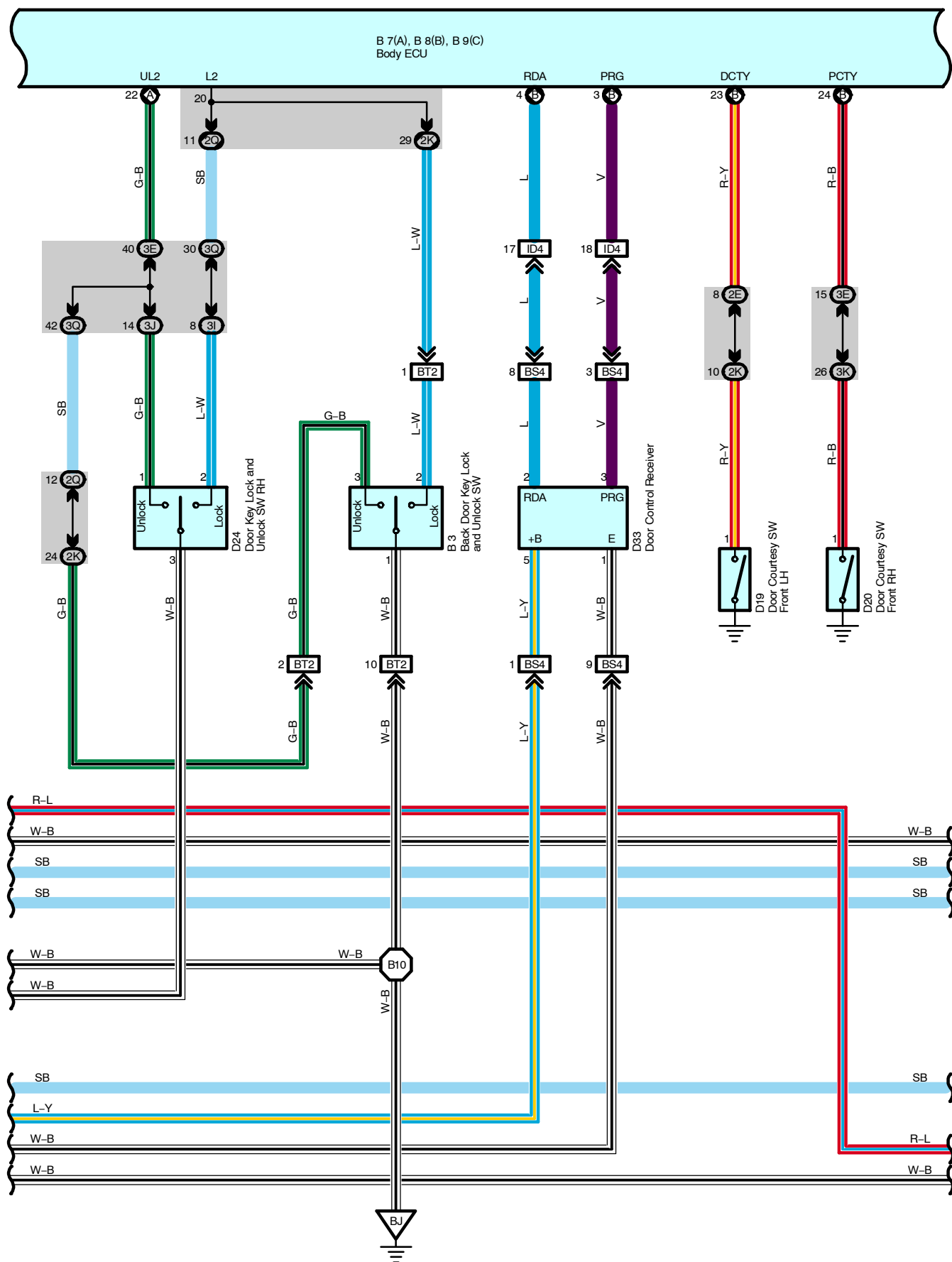


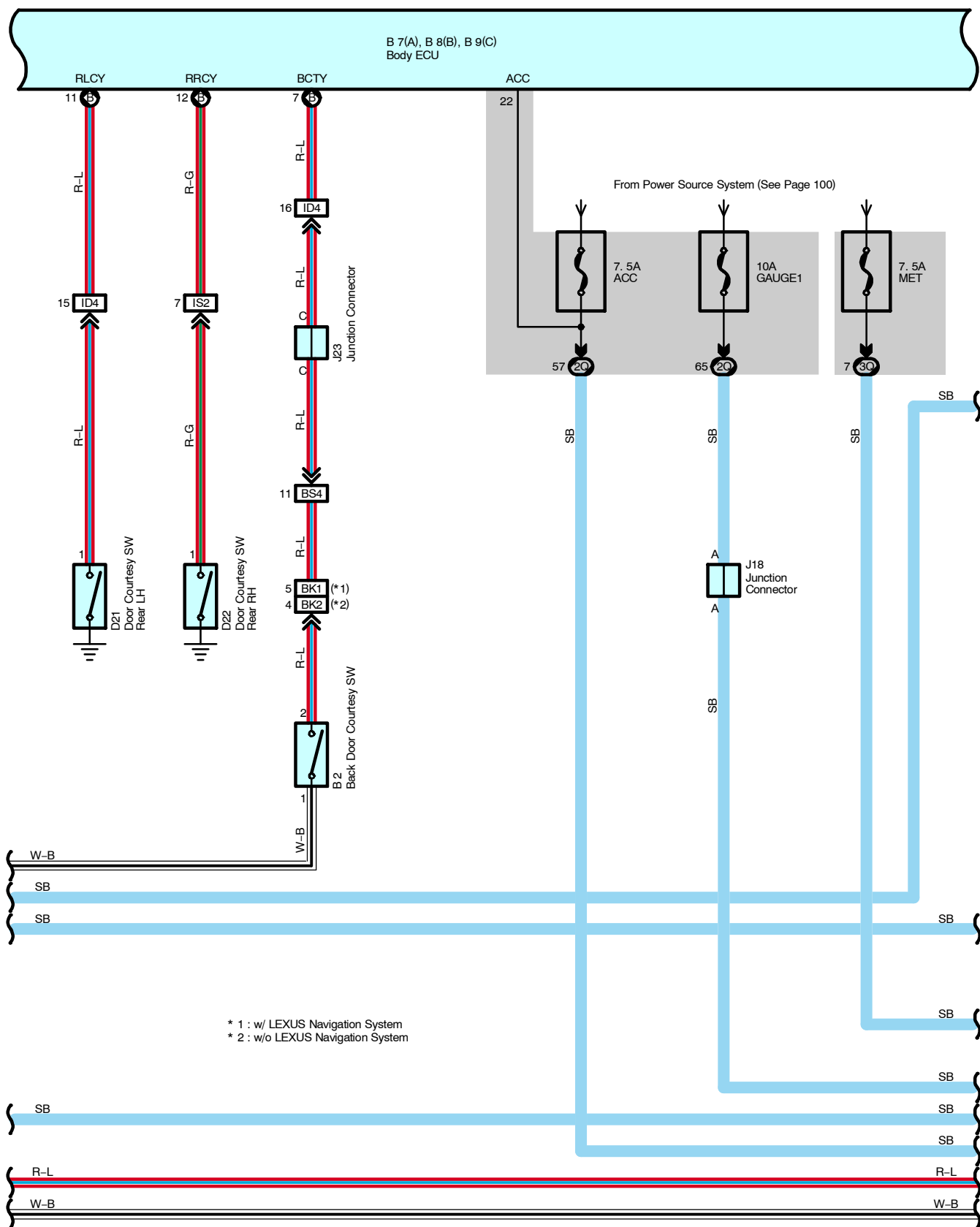




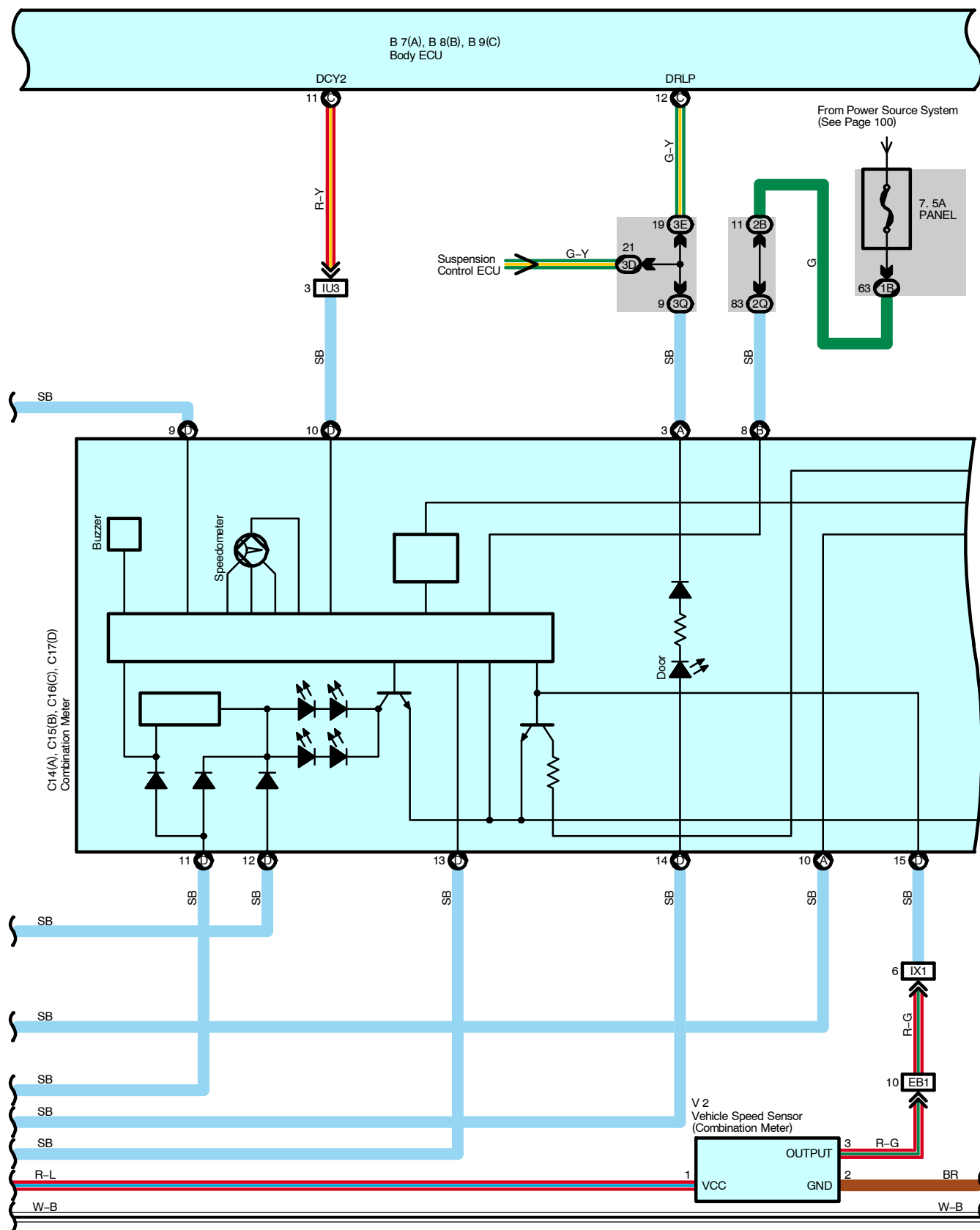


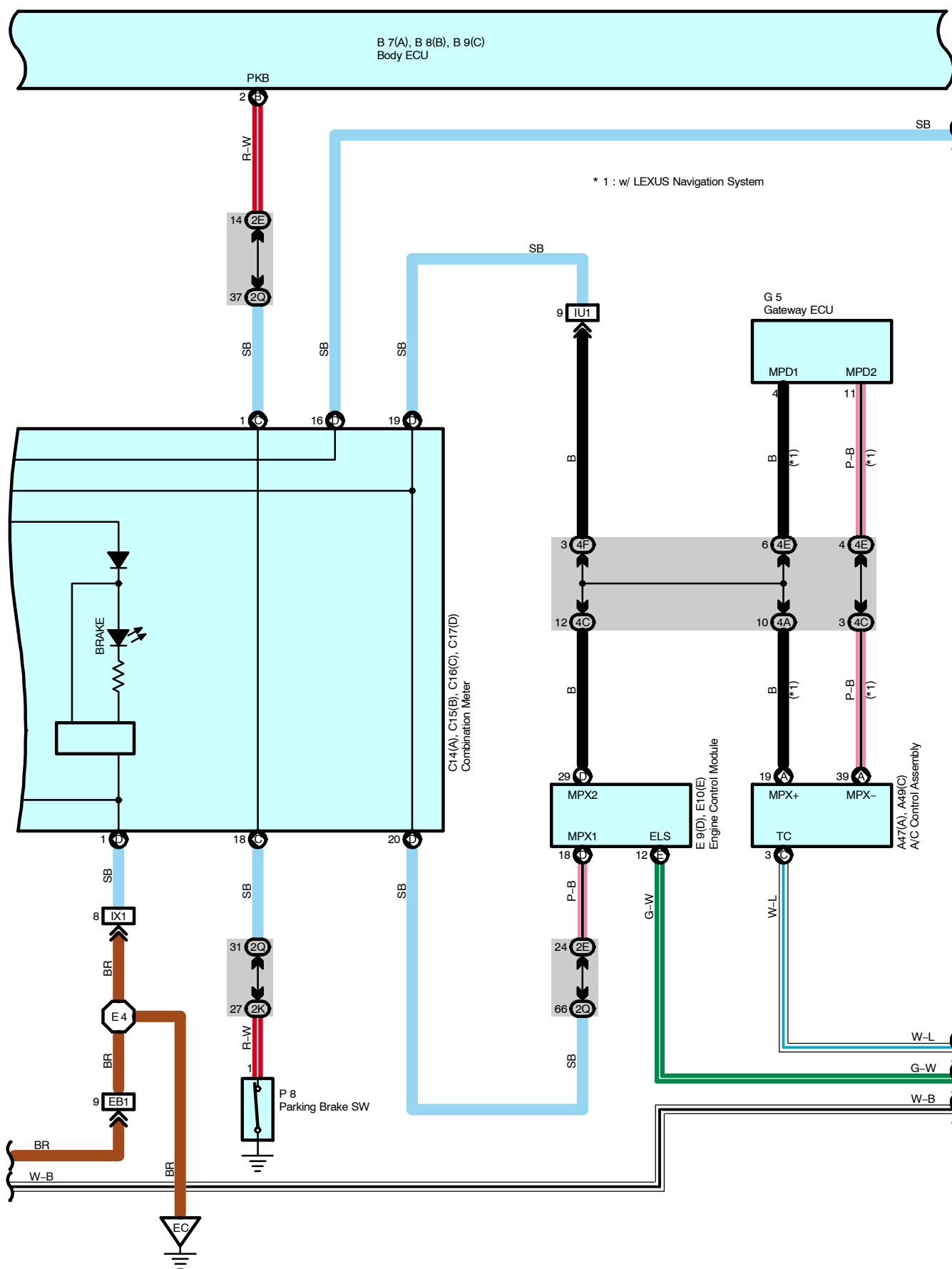
# Multiplex Communication System



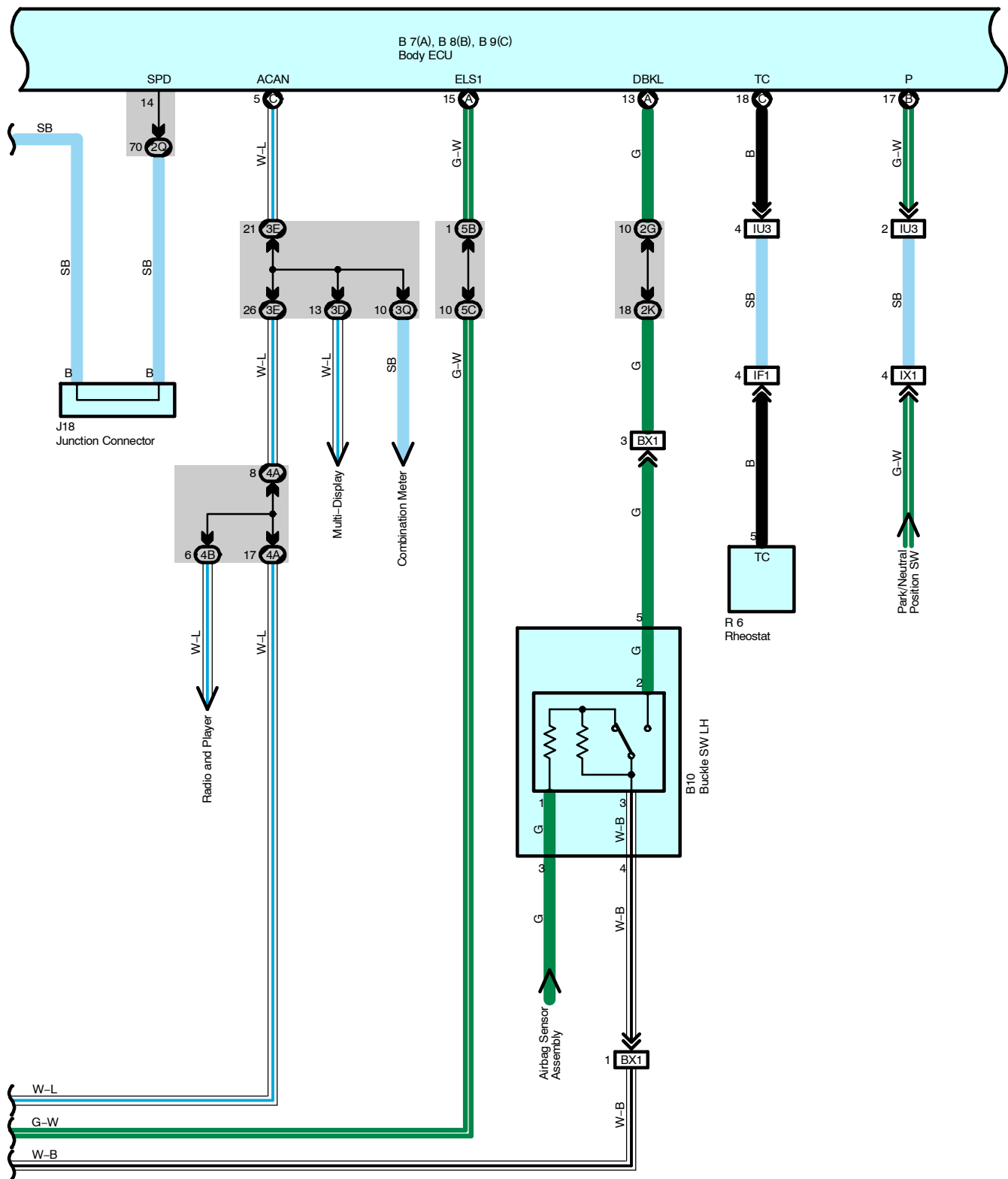


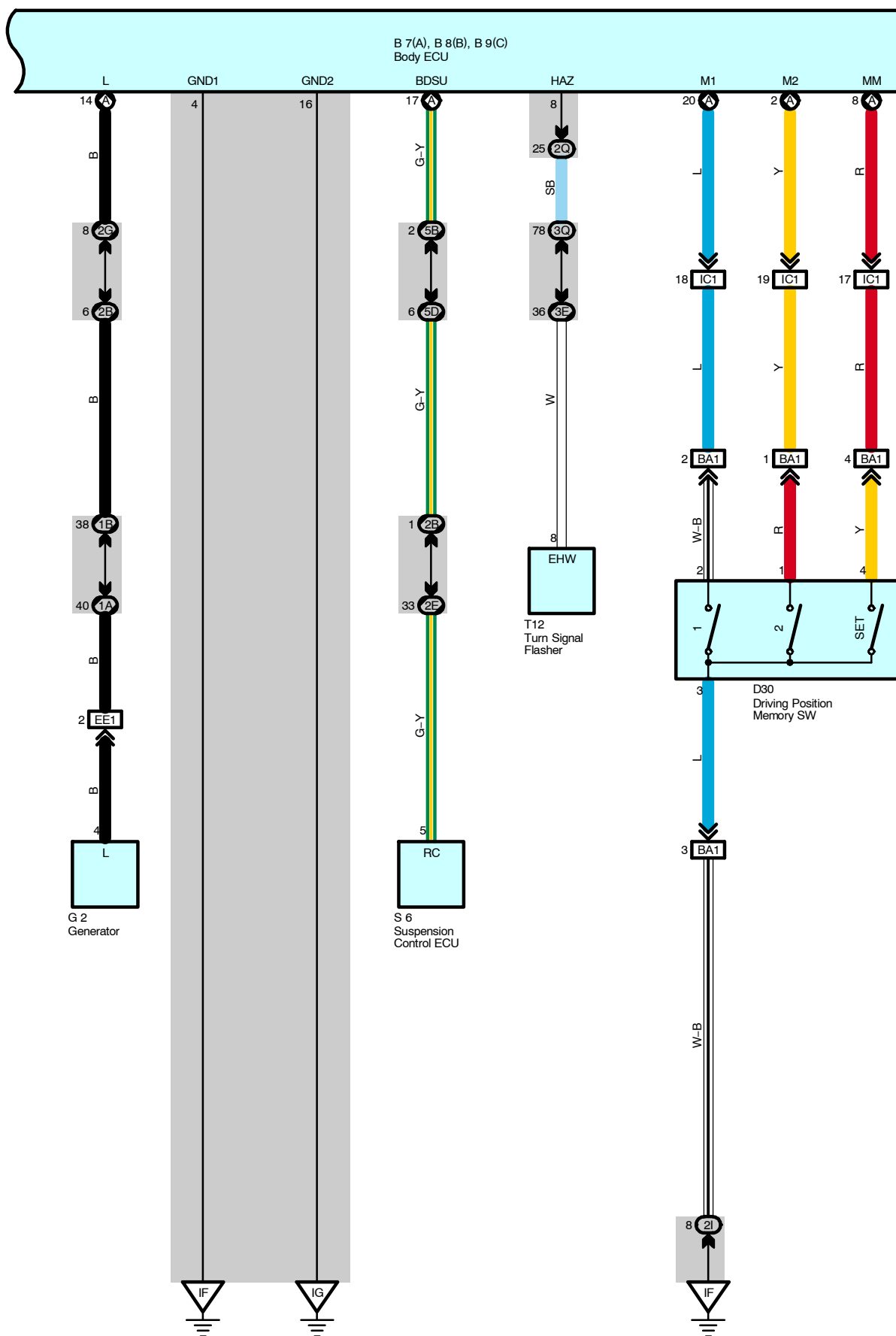
# Multiplex Communication System





# Multiplex Communication System







# Multiplex Communication System

## System Outline

The multiplex communication system communicates among the body ECU, sub body ECU, theft deterrent ECU, power window master SW, power window control SW front RH, power window control SW rear LH, power window control SW rear RH, center airbag sensor assembly, option connector (Mayday ECU), moon roof control ECU, auto wiper ECU, seat ECU, remote control mirror ECU, rain sensor and tilt and telescopic ECU, among the combination meter, engine control module, A/C control assembly and gateway ECU and controls the following systems according to the signals from respective sensors or switches.

For details, please refer to the new car features and/or the repair manual.

## Service Hints

### Body ECU

- 11, 12–Ground : Always approx. 12 volts
- 22–Ground : Approx. 12 volts with ignition SW at ACC or ON position
- 10–Ground : Approx. 12 volts with ignition SW at ON or ST position
- 4, 16–Ground : Always continuity

### S26 Sub Body ECU

- (A) 2, (A) 3–Ground : Approx. 12 volts with ignition SW at ON or ST position
- (A) 4–Ground : Always approx. 12 volts
- (A) 24, (A) 25–Ground : Always continuity

## ○ : Parts Location

| Code | See Page             | Code | See Page             | Code | See Page             |
|------|----------------------|------|----------------------|------|----------------------|
| A32  | <a href="#">70</a>   | D26  | <a href="#">74</a>   | P12  | <a href="#">75</a>   |
| A47  | A <a href="#">70</a> | D27  | <a href="#">74</a>   | P13  | <a href="#">75</a>   |
| A49  | C <a href="#">70</a> | D28  | <a href="#">74</a>   | P14  | <a href="#">75</a>   |
| A50  | A <a href="#">70</a> | D29  | <a href="#">74</a>   | P15  | <a href="#">75</a>   |
| A51  | B <a href="#">70</a> | D30  | <a href="#">74</a>   | P16  | <a href="#">75</a>   |
| B2   | <a href="#">74</a>   | D33  | <a href="#">74</a>   | P17  | <a href="#">75</a>   |
| B3   | <a href="#">74</a>   | E3   | <a href="#">68</a>   | P18  | <a href="#">75</a>   |
| B4   | <a href="#">74</a>   | E9   | D <a href="#">71</a> | P19  | <a href="#">75</a>   |
| B7   | A <a href="#">70</a> | E10  | E <a href="#">71</a> | R6   | <a href="#">73</a>   |
| B8   | B <a href="#">70</a> | F11  | <a href="#">74</a>   | R25  | <a href="#">75</a>   |
| B9   | C <a href="#">70</a> | F12  | <a href="#">74</a>   | R30  | <a href="#">75</a>   |
| B10  | <a href="#">76</a>   | F16  | <a href="#">68</a>   | S5   | <a href="#">73</a>   |
| C14  | A <a href="#">71</a> | G2   | <a href="#">68</a>   | S6   | <a href="#">73</a>   |
| C15  | B <a href="#">71</a> | G5   | <a href="#">71</a>   | S16  | <a href="#">73</a>   |
| C16  | C <a href="#">71</a> | H1   | <a href="#">69</a>   | S17  | <a href="#">73</a>   |
| C17  | D <a href="#">71</a> | I23  | <a href="#">74</a>   | S20  | <a href="#">73</a>   |
| C18  | <a href="#">71</a>   | I24  | <a href="#">74</a>   | S21  | <a href="#">73</a>   |
| C21  | <a href="#">71</a>   | I25  | <a href="#">74</a>   | S26  | A <a href="#">75</a> |
| C32  | <a href="#">71</a>   | I26  | <a href="#">74</a>   | S27  | B <a href="#">75</a> |
| C35  | <a href="#">71</a>   | J3   | <a href="#">72</a>   | S28  | <a href="#">76</a>   |
| D8   | <a href="#">71</a>   | J5   | <a href="#">72</a>   | T2   | <a href="#">69</a>   |
| D15  | <a href="#">74</a>   | J7   | <a href="#">72</a>   | T6   | <a href="#">73</a>   |
| D16  | <a href="#">74</a>   | J15  | A <a href="#">72</a> | T8   | <a href="#">73</a>   |
| D17  | <a href="#">74</a>   | J16  | B <a href="#">72</a> | T11  | <a href="#">73</a>   |
| D18  | <a href="#">74</a>   | J18  | <a href="#">72</a>   | T12  | <a href="#">73</a>   |
| D19  | <a href="#">74</a>   | J23  | <a href="#">74</a>   | U1   | <a href="#">73</a>   |
| D20  | <a href="#">74</a>   | M2   | <a href="#">74</a>   | V2   | <a href="#">69</a>   |
| D21  | <a href="#">74</a>   | M5   | A <a href="#">72</a> | V6   | <a href="#">75</a>   |
| D22  | <a href="#">74</a>   | M12  | B <a href="#">72</a> | V7   | <a href="#">75</a>   |
| D23  | <a href="#">74</a>   | N6   | <a href="#">72</a>   | W3   | <a href="#">69</a>   |
| D24  | <a href="#">74</a>   | O4   | <a href="#">74</a>   | Z7   | <a href="#">73</a>   |
| D25  | <a href="#">74</a>   | P8   | <a href="#">75</a>   |      |                      |

**: Junction Block and Wire Harness Connector**

| Code | See Page | Junction Block and Wire Harness (Connector Location)                      |
|------|----------|---------------------------------------------------------------------------|
| 1A   | 24       | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)       |
| 1B   | 24       | Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)       |
| 1C   |          |                                                                           |
| 2A   | 28       | Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)              |
| 2B   |          |                                                                           |
| 2D   | 28       | Dash Wire and Cowl Side J/B LH (Left Kick Panel)                          |
| 2E   |          |                                                                           |
| 2G   |          |                                                                           |
| 2I   | 28       | Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)                 |
| 2J   |          |                                                                           |
| 2K   | 28       | Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)                    |
| 2L   | 28       | Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)                     |
| 2Q   | 30       | Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)  |
| 3B   | 40       | Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)             |
| 3D   | 40       | Dash Wire and Cowl Side J/B RH (Right Kick Panel)                         |
| 3E   |          |                                                                           |
| 3F   |          |                                                                           |
| 3I   | 40       | Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)                |
| 3J   |          |                                                                           |
| 3K   | 40       | Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)                   |
| 3P   | 43       | Dash Wire and Cowl Side J/B RH (Right Kick Panel)                         |
| 3Q   | 42       | Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel) |
| 4A   | 52       | Dash Wire and J/B No.4 (Instrument Panel Center)                          |
| 4B   |          |                                                                           |
| 4C   |          |                                                                           |
| 4D   |          |                                                                           |
| 4E   |          |                                                                           |
| 4F   |          |                                                                           |
| 5B   | 56       | Dash Wire and J/B No.5 (Behind the Combination Meter)                     |
| 5C   |          |                                                                           |
| 5D   | 56       | Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)         |
| 7B   | 64       | Dash Wire and J/B No.7 (Behind the Grove Box)                             |

# Multiplex Communication System

 : Connector Joining Wire Harness and Wire Harness

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location)                                        |
|------|----------|---------------------------------------------------------------------------------------------------|
| EA2  | 78       | Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)                        |
| EB1  | 78       | Engine Wire and Transmission Wire (On the Transmission)                                           |
| EE1  | 78       | Engine Room Main Wire and Alternator Wire (Near the Battery)                                      |
| IC1  | 80       | Front Door LH Wire and Dash Wire (Left Kick Panel)                                                |
| IC3  |          |                                                                                                   |
| ID4  |          |                                                                                                   |
| ID5  | 80       | Dash Wire and Floor No.1 Wire (Left Kick Panel)                                                   |
| ID6  |          |                                                                                                   |
| IF1  | 80       | Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)       |
| IH2  | 82       | Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)                          |
| II3  | 82       | Dash Wire and Column Wire (Near the Ignition SW)                                                  |
| II5  |          |                                                                                                   |
| IL3  | 82       | Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)                     |
| IM2  | 82       | Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel) |
| IO3  | 82       | Engine Wire and Dash Wire (Behind the Glove Box)                                                  |
| IS2  | 84       | Dash Wire and Floor No.2 Wire (Right Kick Panel)                                                  |
| IS3  |          |                                                                                                   |
| IU1  | 84       | Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)                            |
| IU2  |          |                                                                                                   |
| IU3  |          |                                                                                                   |
| IU6  |          |                                                                                                   |
| IX1  | 86       | Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)                          |
| IY3  | 86       | Front Door RH Wire and Dash Wire (Right Kick Panel)                                               |
| Ia1  | 86       | Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)                                       |
| Ib1  | 86       | Lamp No.2 Wire and Floor No.1 Wire (Left Kick Panel)                                              |
| Id2  | 86       | Dash Wire and Dash Wire (Behind the Combination Meter)                                            |
| Ie2  |          |                                                                                                   |
| Ij1  | 88       | Lamp No.2 Wire and Floor No.2 Wire (Right Kick Panel)                                             |
| Io1  | 88       | Dash Wire and Dash Wire (Center Side of Front Console)                                            |
| BA1  | 90       | Front Door LH Wire and Front Door Sub Wire (Front Door LH)                                        |
| BB3  | 90       | Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)                                |
| BB4  |          |                                                                                                   |
| BD1  | 90       | Frame No.2 Wire and Frame Wire (Near the Left Rear Suspension Support)                            |
| BE3  | 90       | Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)                               |
| BE4  |          |                                                                                                   |
| BF5  | 90       | Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)                                |
| BK1  | 92       | Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)                                |
| BK2  |          |                                                                                                   |
| BO4  | 94       | Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)                        |
| BS3  | 94       | Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)                               |
| BS4  |          |                                                                                                   |
| BT2  | 94       | Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)                           |
| BU1  | 94       | Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)                                            |
| BV1  | 94       | Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)                                      |
| BW1  | 94       | Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)                                      |
| BX1  | 94       | Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)                       |

**: Ground Points**

| Code | See Page           | Ground Points Location                      |
|------|--------------------|---------------------------------------------|
| EA   | <a href="#">78</a> | Front Right Side of Fender Apron            |
| EC   | <a href="#">78</a> | Rear Bank of Right Cylinder Head            |
| IF   | <a href="#">80</a> | Set Bolt of Cowl Side J/B LH                |
| IG   |                    |                                             |
| II   | <a href="#">80</a> | Set Bolt of Cowl Side J/B RH                |
| BJ   | <a href="#">90</a> | Under the Driver's Seat                     |
| BK   | <a href="#">90</a> | 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 |
|------|--------------------|---------------------------------|------|--------------------|---------------------------------|
| E4   | <a href="#">78</a> | Engine Wire                     | B7   | <a href="#">92</a> | Front Door RH Wire              |
| B2   | <a href="#">92</a> | Front Door LH Wire              | B9   | <a href="#">92</a> | Floor No.2 Wire                 |
| B3   | <a href="#">92</a> | Floor No.1 Wire                 | B10  | <a href="#">92</a> | Floor No.1 Wire                 |
| B4   |                    |                                 | B14  | <a href="#">92</a> | Back Door Upper Wire            |
| B5   | <a href="#">92</a> | Roof No.1 Wire                  | B21  | <a href="#">92</a> | Floor No.1 Wire                 |