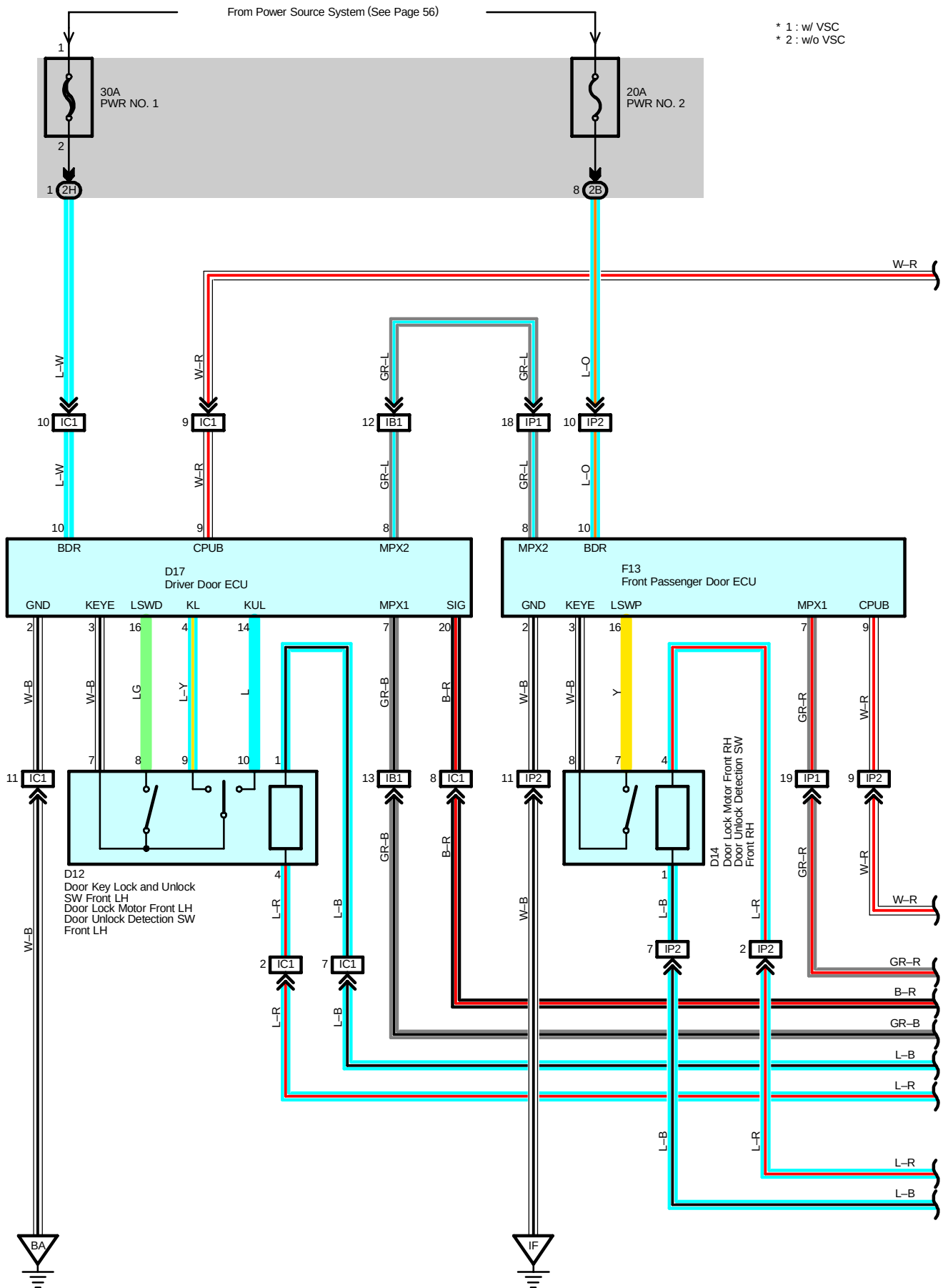
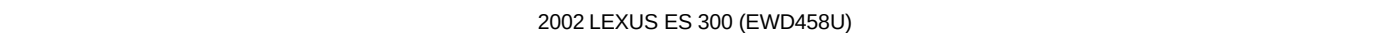
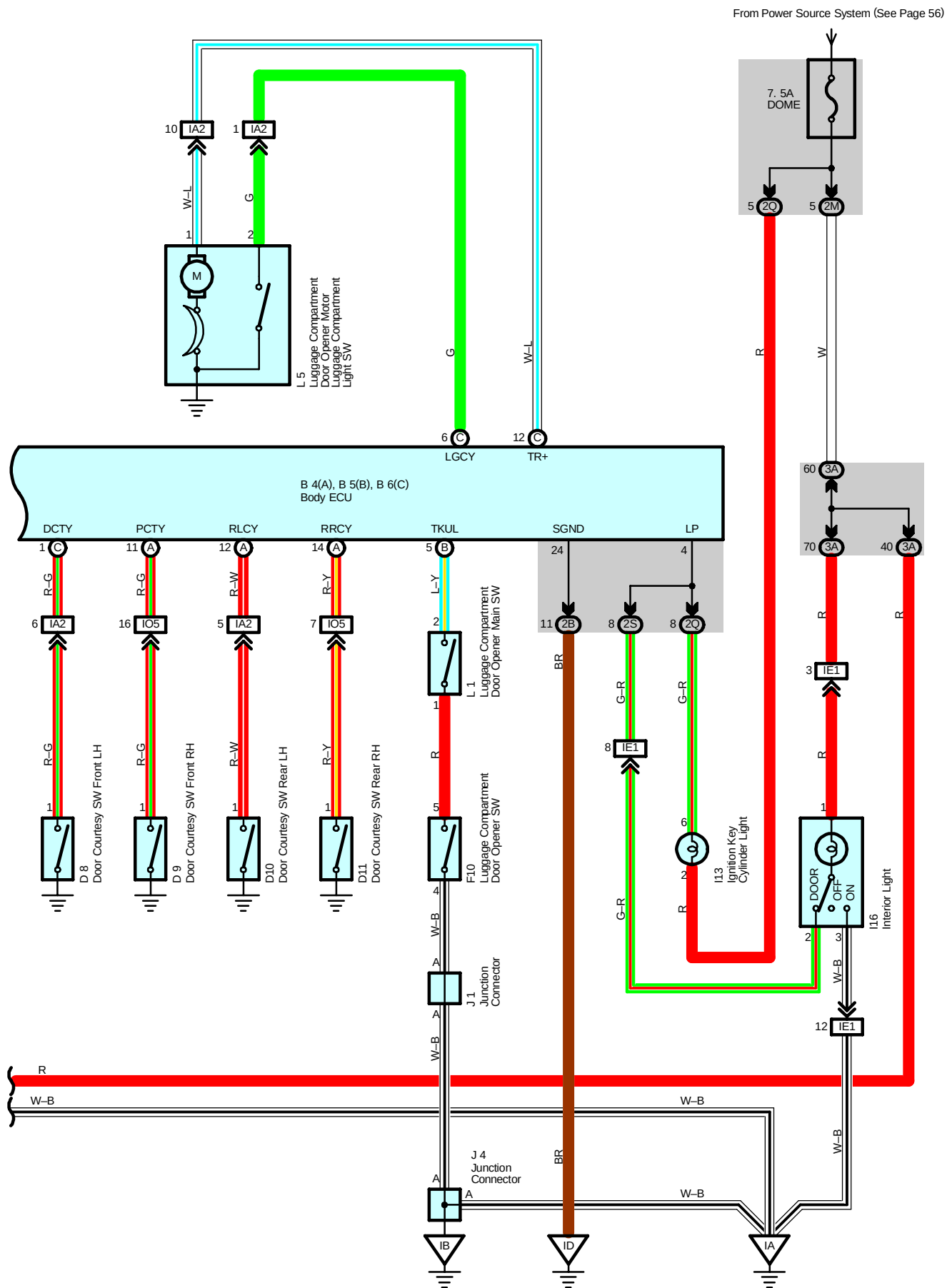


# Wireless Door Lock Control









# Wireless Door Lock Control

## System Outline

Door lock control (Lock and unlock) and panic control (Theft 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 lock control receiver receives the electrical waves from the transmitter, and sends a signal to the body ECU, causing it to operate.

As a result, the body ECU 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, turn signal light will flash once. If any door indicates that it is open after the unlock command, turn signal light will flash twice.

### 3. Buzzer Sound Function

If all doors indicate that they are locked after the lock command, the keyless buzzer goes on once. If any door indicates that it is open after the unlock command, the keyless buzzer goes on twice.

### 4. Illuminated Entry Function

When the body ECU detects the unlock state after the unlock operation has been made, it turns on the lights, such as the ignition key cylinder light and interior light for approx. 15 sec. If all the doors are locked during this operation, lighting is cancelled and the lights immediately fade out.

### 5. 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.

### 6. 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.

### 7. Wireless Control Stop Function

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

### 8. Repeat Function

If the door lock or unlock condition does not change after wireless door lock or unlock operation, 2 seconds later, the body ECU sends current again to the door lock motor.

### 9. 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 and horn sounds and turn signal light, headlights and taillight 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

### D8, D9, D10, D11 Door Courtesy SW Front LH, RH, Rear LH, RH

1-Ground : Continuity with the door open

### U1 Unlock Warning SW

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

### D13 Door Lock Control Receiver

5-Ground : Always approx. 12 volts

1-Ground : Always continuity

 : Parts Location

| Code |   | See Page | Code |    | See Page | Code |    | See Page |
|------|---|----------|------|----|----------|------|----|----------|
| B4   | A | 38       | D14  | 40 | J8       | A    | 39 |          |
| B5   | B | 38       | D15  | 40 | J9       | B    | 39 |          |
| B6   | C | 38       | D16  | 40 | J12      |      | 40 |          |
| C7   | A | 38       | D17  | 40 | J13      |      | 40 |          |
| C8   | B | 38       | F10  | 39 | K1       |      | 37 |          |
| D8   |   | 40       | F13  | 40 | K4       |      | 39 |          |
| D9   |   | 40       | I13  | 39 | L1       |      | 39 |          |
| D10  |   | 40       | I16  | 40 | L5       |      | 40 |          |
| D11  |   | 40       | J1   | 39 | T9       |      | 39 |          |
| D12  |   | 40       | J4   | 39 | U1       |      | 39 |          |
| D13  |   | 40       | J6   | 39 |          |      |    |          |

 : Junction Block and Wire Harness Connector

| Code | See Page                    | Junction Block and Wire Harness (Connector Location)                     |
|------|-----------------------------|--------------------------------------------------------------------------|
| 1B   | 25                          | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)      |
| 2B   | 28                          | Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)           |
| 2C   |                             |                                                                          |
| 2G   | 28                          | Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)           |
| 2H   | 28                          | Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)                 |
| 2K   |                             |                                                                          |
| 2M   | 29                          | Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)           |
| 2Q   |                             |                                                                          |
| 2R   |                             |                                                                          |
| 2S   |                             |                                                                          |
| 3A   | 34 (w/ VSC)<br>35 (w/o VSC) | Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH) |
| 3B   | 34 (w/ VSC)<br>35 (w/o VSC) |                                                                          |

 : Connector Joining Wire Harness and Wire Harness

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location)                           |
|------|----------|--------------------------------------------------------------------------------------|
| IA2  | 46       | Instrument Panel Wire and Floor No.1 Wire (Left Kick Panel)                          |
| IA3  |          |                                                                                      |
| IB1  | 46       | Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)                       |
| IC1  | 46       | Front Door LH Wire and Floor No.1 Wire (Left Kick Panel)                             |
| IE1  | 46       | Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)                  |
| IF5  | 46       | Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube) |
| IO4  | 48       | Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)                         |
| IO5  |          |                                                                                      |
| IP1  | 48       | Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)                      |
| IP2  |          |                                                                                      |
| BA1  | 50       | Rear Door No.2 Wire and Floor No.1 Wire (Left Center Pillar)                         |
| BB1  | 50       | Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)                        |

# Wireless Door Lock Control

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: Ground Points

| Code | See Page           | Ground Points Location                    |
|------|--------------------|-------------------------------------------|
| EB   | <a href="#">44</a> | Right Fender                              |
| IA   | <a href="#">46</a> | Instrument Panel Reinforcement LH         |
| IB   | <a href="#">46</a> | Instrument Panel Brace LH                 |
| ID   | <a href="#">46</a> | Instrument Panel Brace RH                 |
| IF   | <a href="#">46</a> | Instrument Panel Reinforcement RH         |
| BA   | <a href="#">50</a> | Under the Driver's Seat                   |
| BB   | <a href="#">50</a> | Under the Front Passenger's Seat          |
| BC   | <a href="#">50</a> | Front Side of Rear Quarter Wheel House LH |
| BD   | <a href="#">50</a> | Front Side of Rear Quarter Wheel House RH |