

Select Vehicle | New TSBs | Technician's Reference

Component Search:

 Conversion Calculator

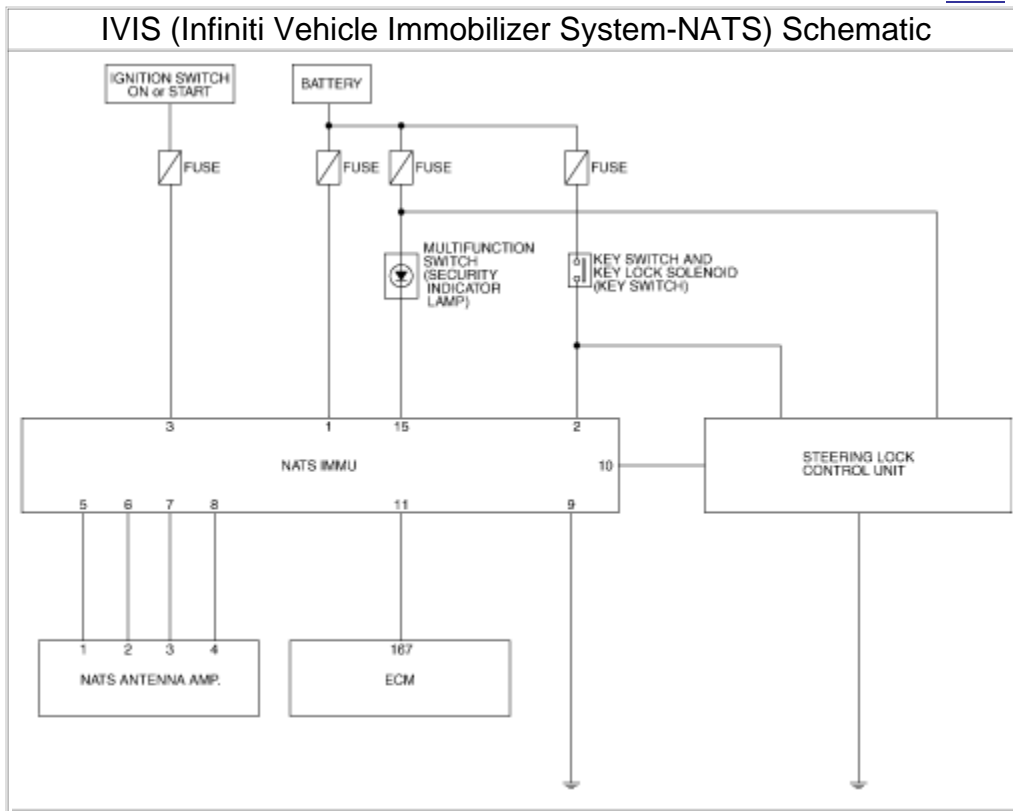
**2003 Infiniti Q45 V8-4.5L (VK45DE)**

[Vehicle Level](#) → [Diagrams](#) → [Electrical Diagrams](#) → [Antitheft and Alarm Systems](#) → [IVIS \(Infiniti Vehicle Immobilizer System-NATS\)](#) → [Schematic](#) ←

**Schematic**

**IVIS (Infiniti Vehicle Immobilizer System-NATS)**

[Notes](#)



Select Vehicle | New TSBs | Technician's Reference

Component Search:  OK

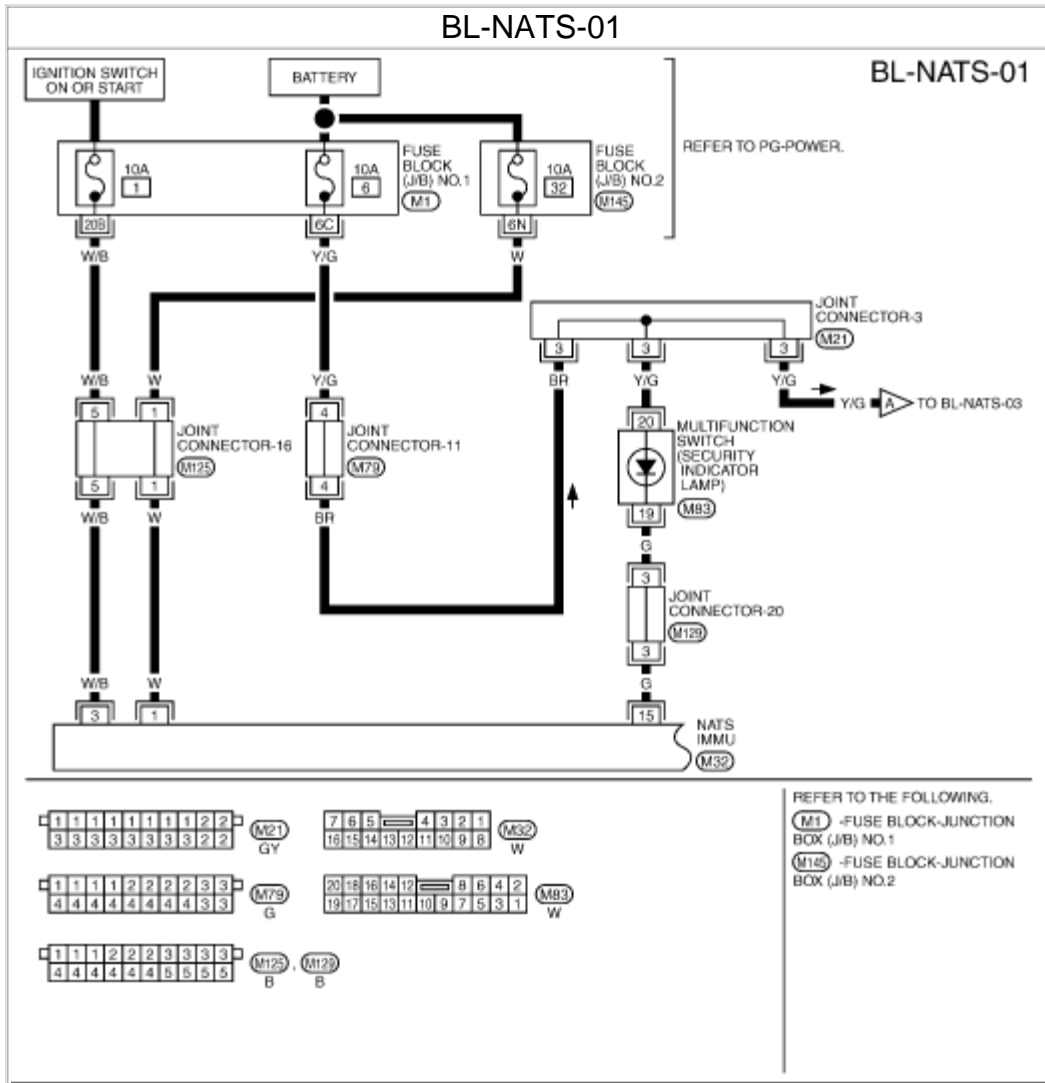
Conversion Calculator

2003 Infiniti Q45 V8-4.5L (VK45DE)

Vehicle Level → Diagrams → Electrical Diagrams → Antitheft and Alarm Systems → IVIS (Infiniti Vehicle Immobilizer System-NATS) → BL-NATS ←

BL-NATS

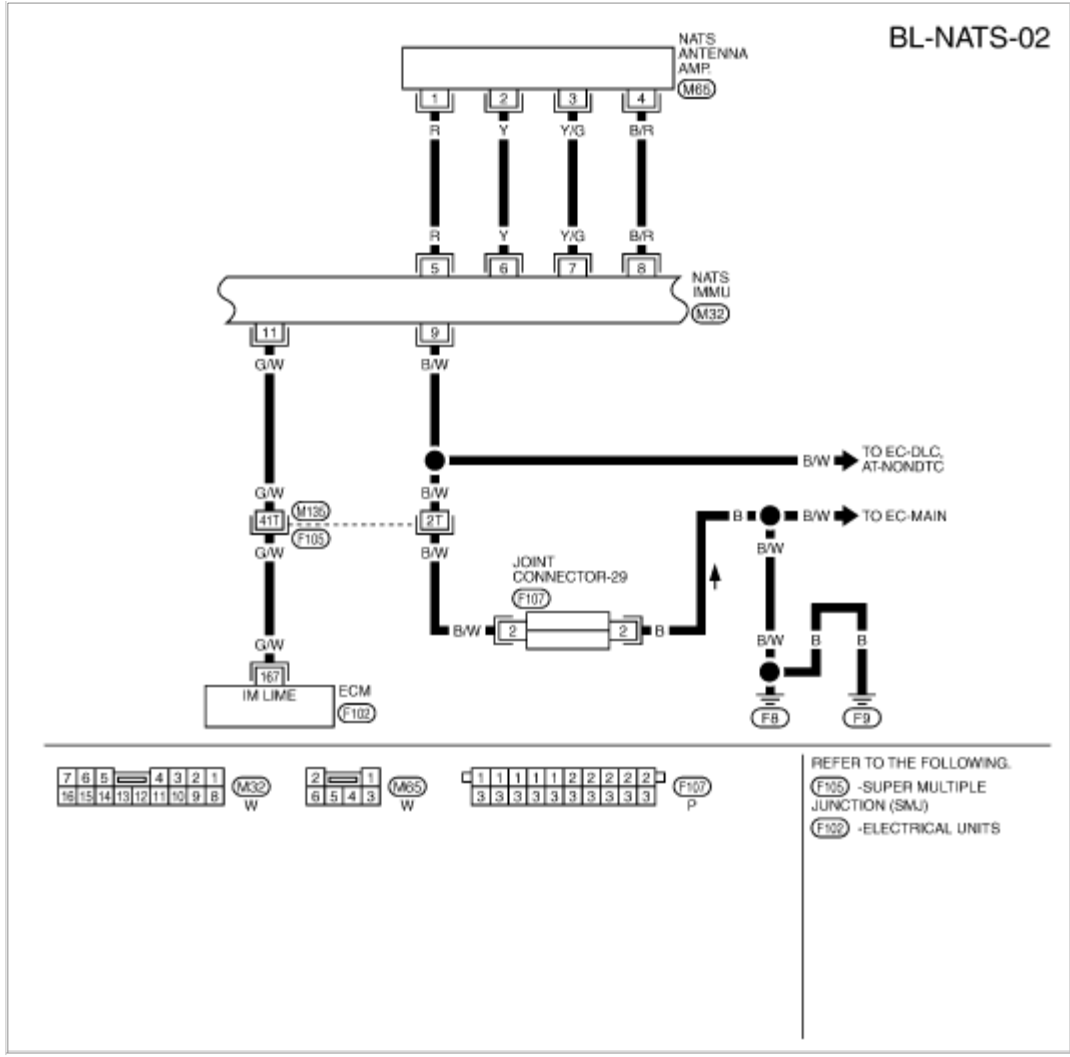
Notes



Zoom

Sized for Print

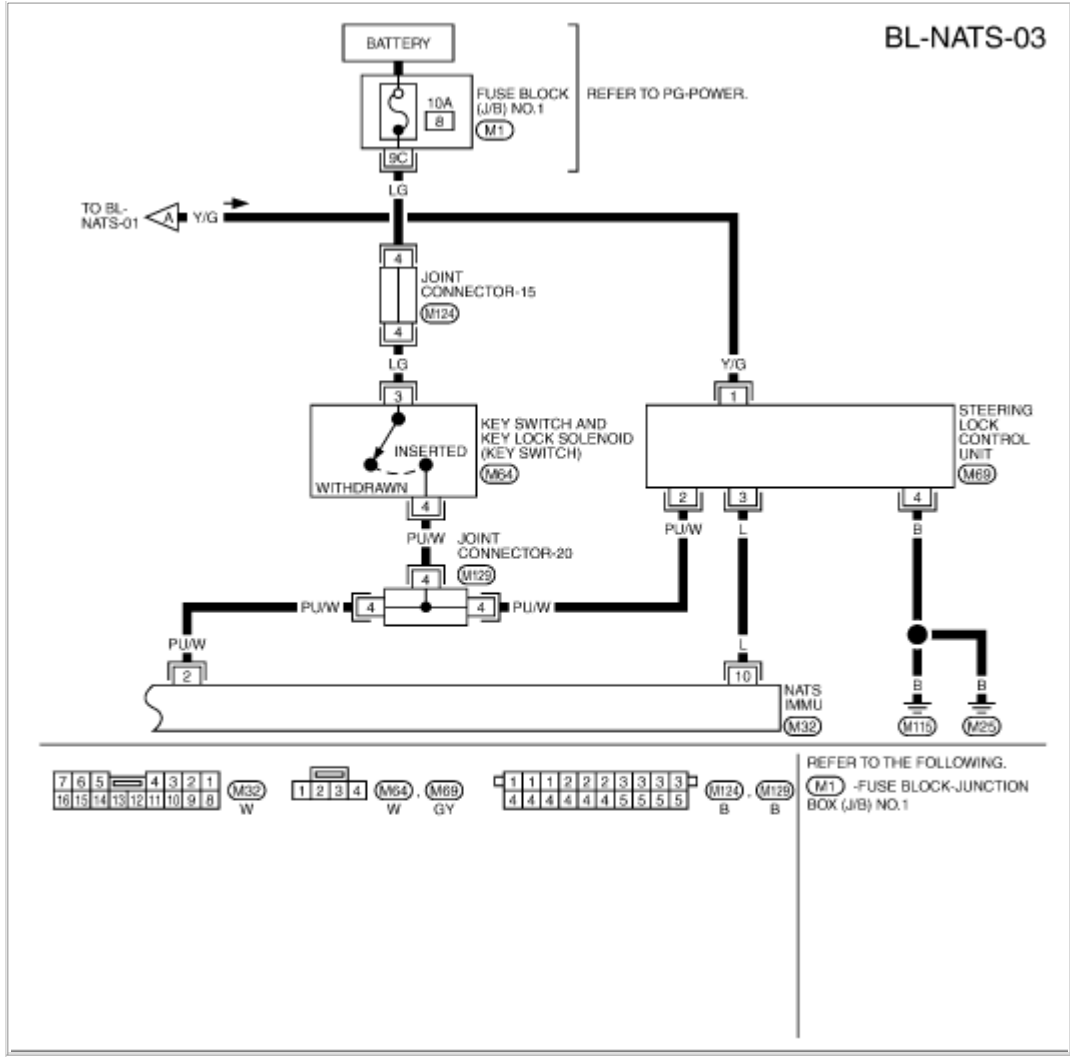
BL-NATS-02



Zoom

Sized for Print

BL-NATS-03



Zoom

Sized for Print

**Diagrams:** Other diagrams referred to by name within these diagrams can be found at **Diagrams By Diagram Name.** [See: Diagrams By Diagram Name](#)

Select Vehicle | New TSBs | Technician's Reference

Component Search:  OK

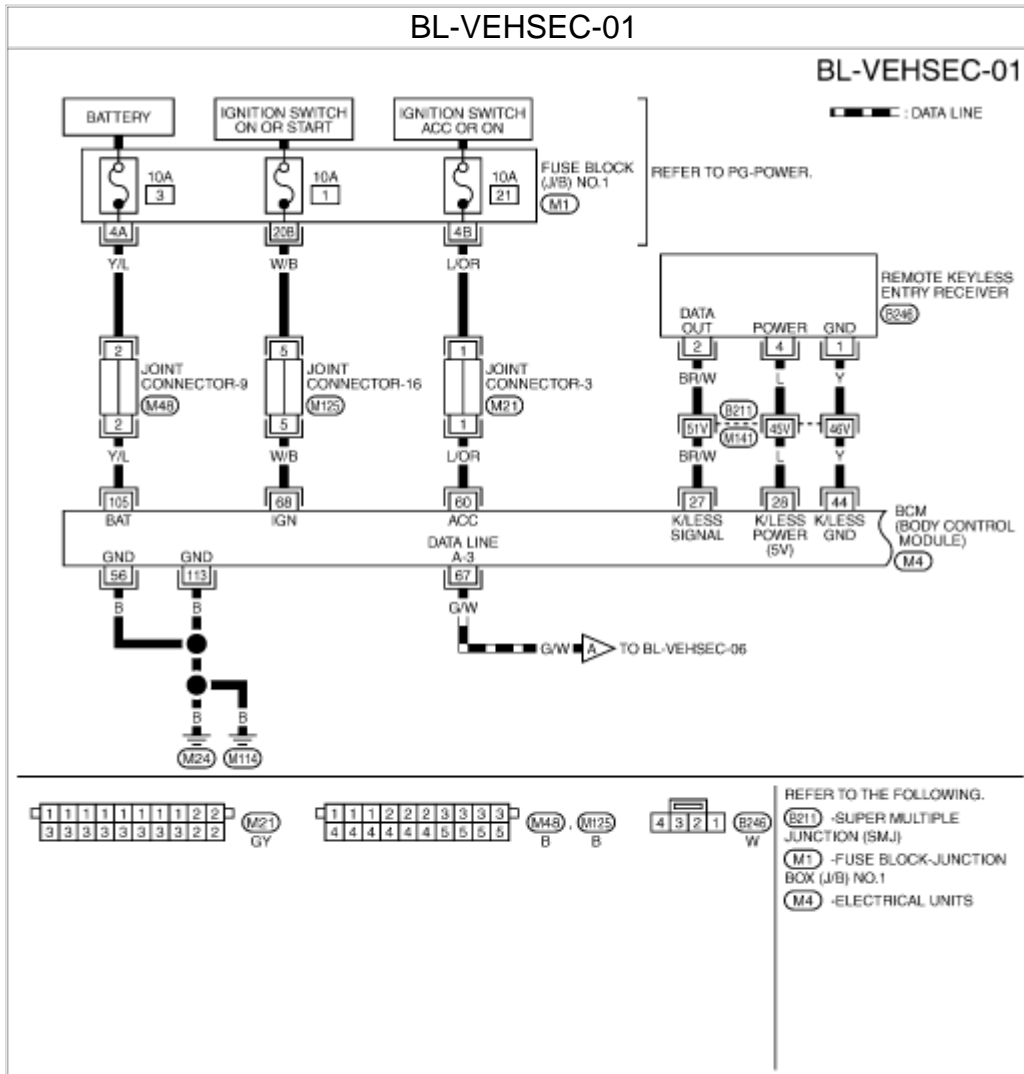
Conversion Calculator

2003 Infiniti Q45 V8-4.5L (VK45DE)

Vehicle Level → Diagrams → Electrical Diagrams → Antitheft and Alarm Systems → Vehicle Security (Theft Warning) System Diagram ←

Vehicle Security (Theft Warning) System Diagram

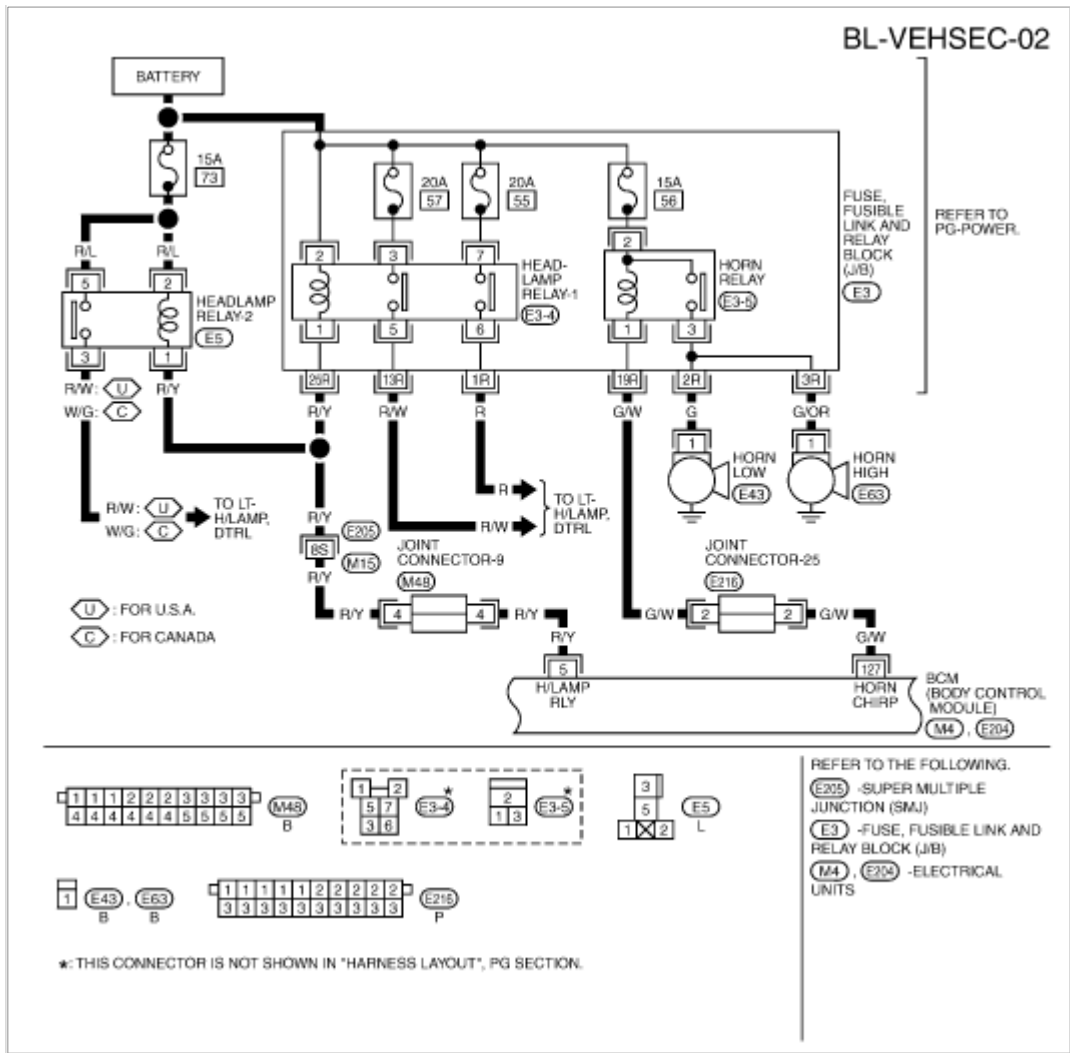
Notes



Zoom

Sized for Print

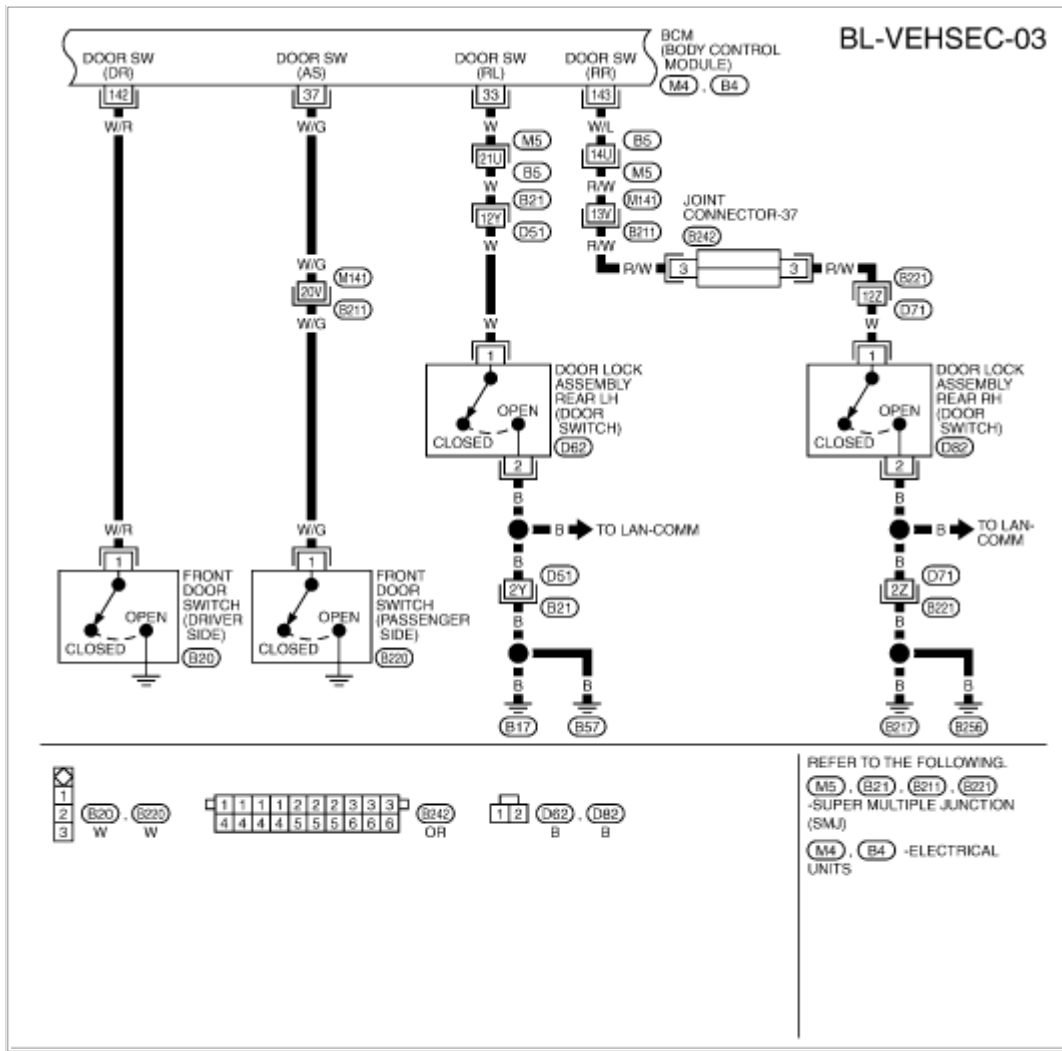
BL-VEHSEC-02



Zoom

Sized for Print

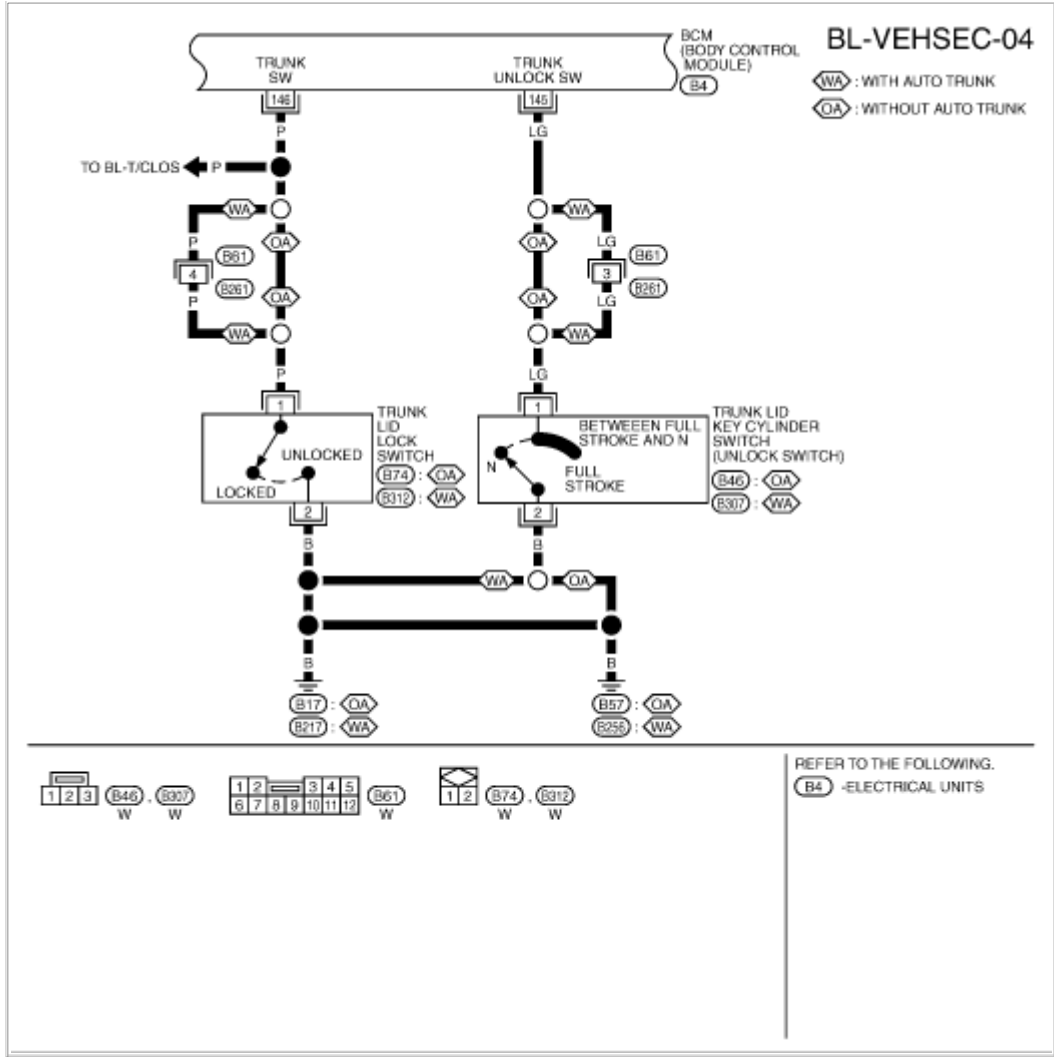
BL-VEHSEC-03



Zoom

Sized for Print

BL-VEHSEC-04

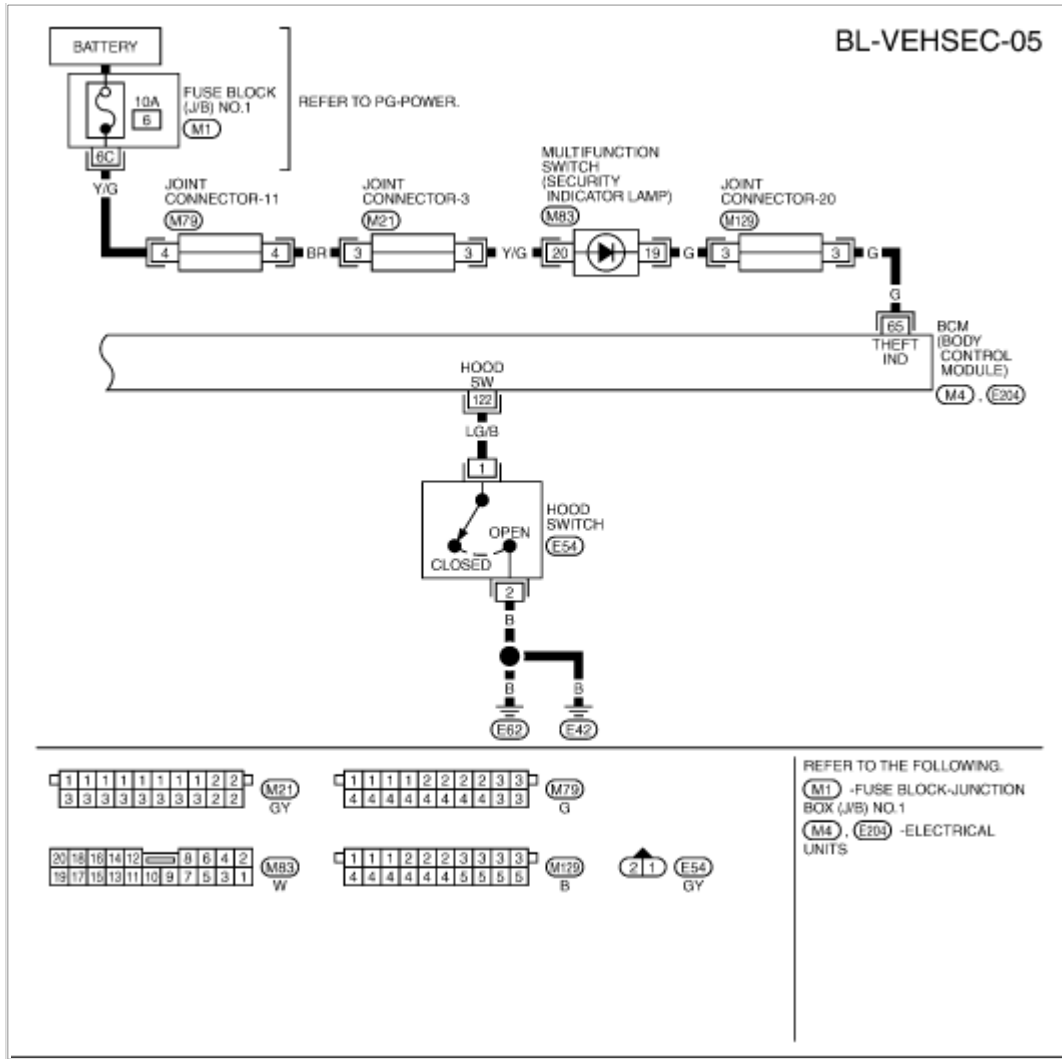


Zoom

Sized for Print

BL-VEHSEC-05



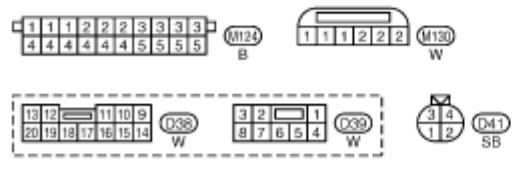
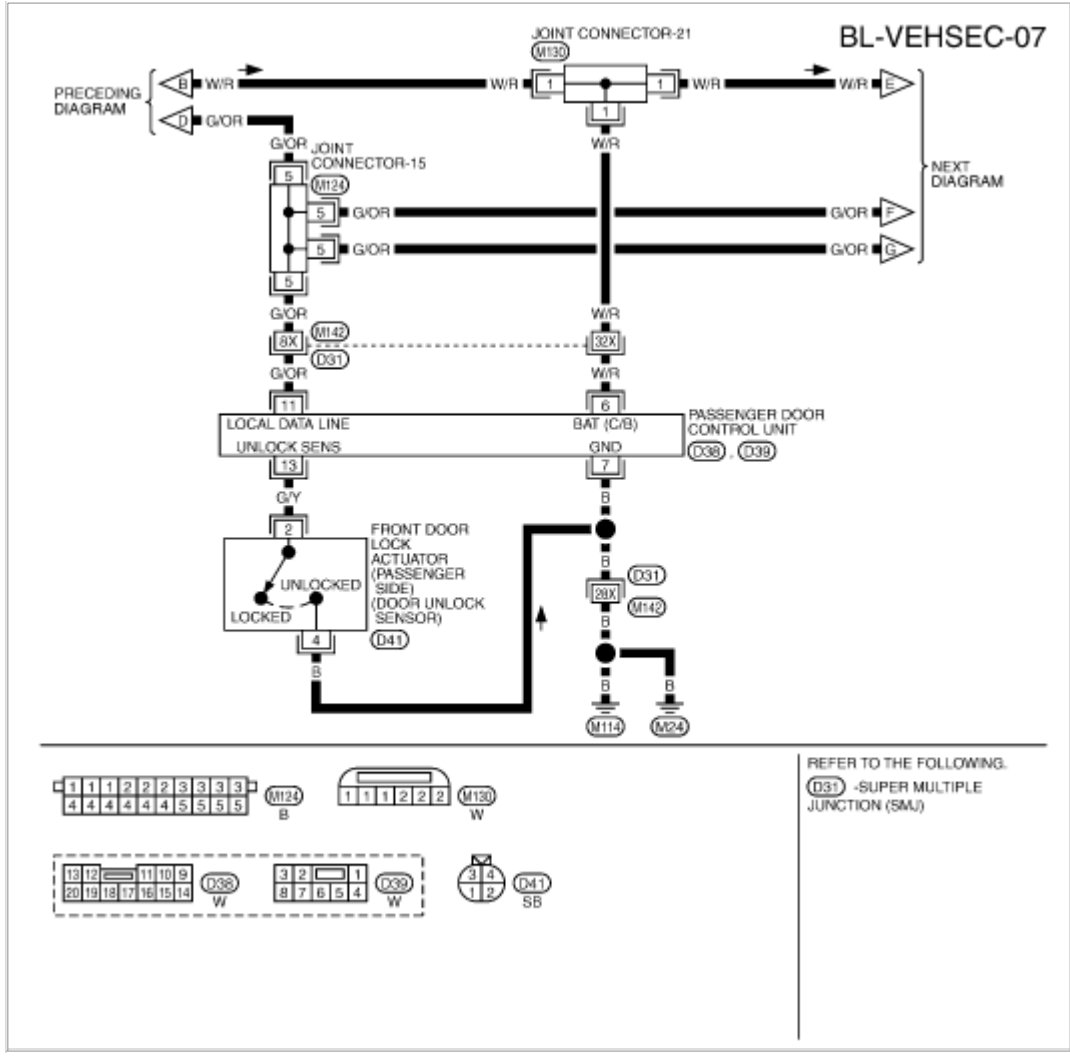


Zoom

Sized for Print

BL-VEHSEC-06



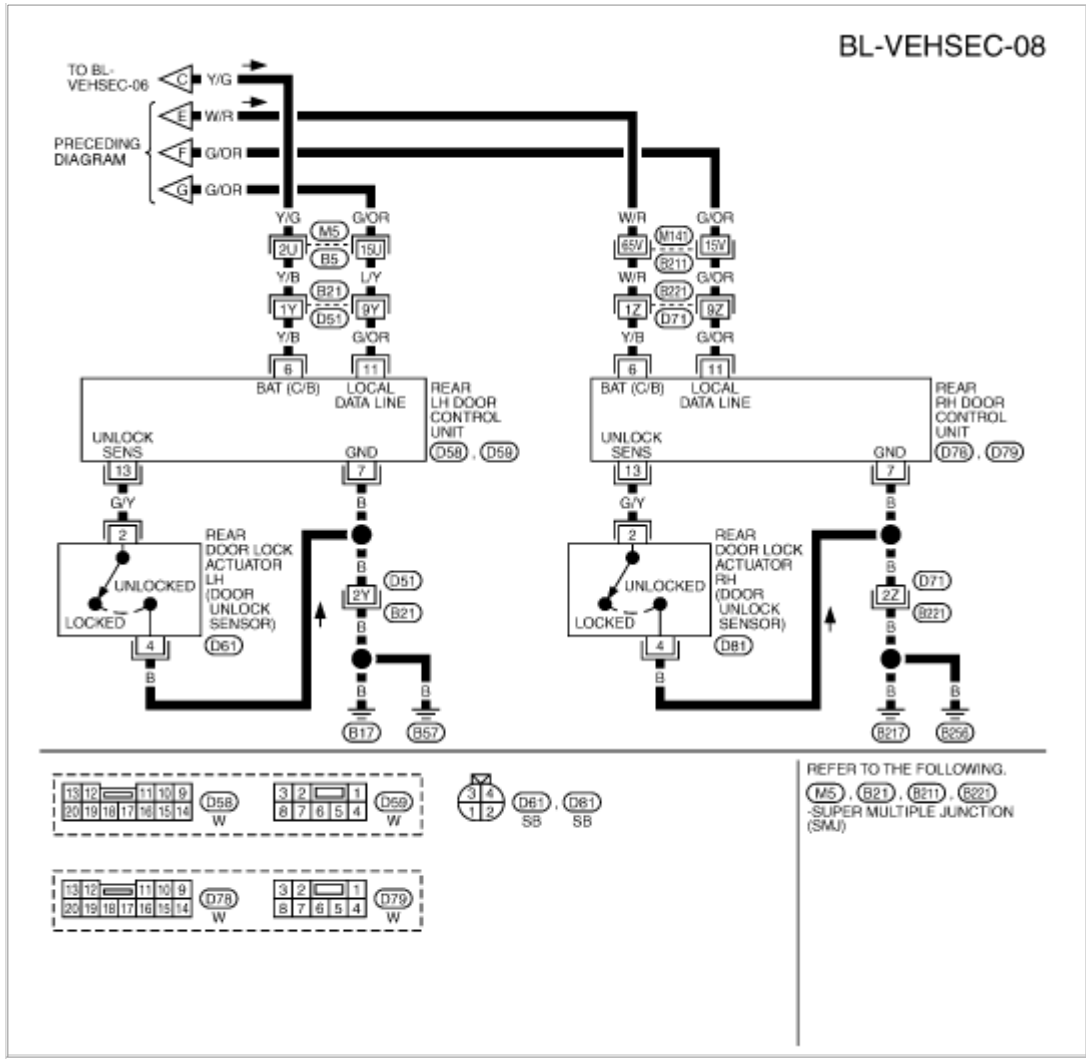


REFER TO THE FOLLOWING.  
 (D31) -SUPER MULTIPLE JUNCTION (SMJ)

Zoom

Sized for Print

BL-VEHSEC-08



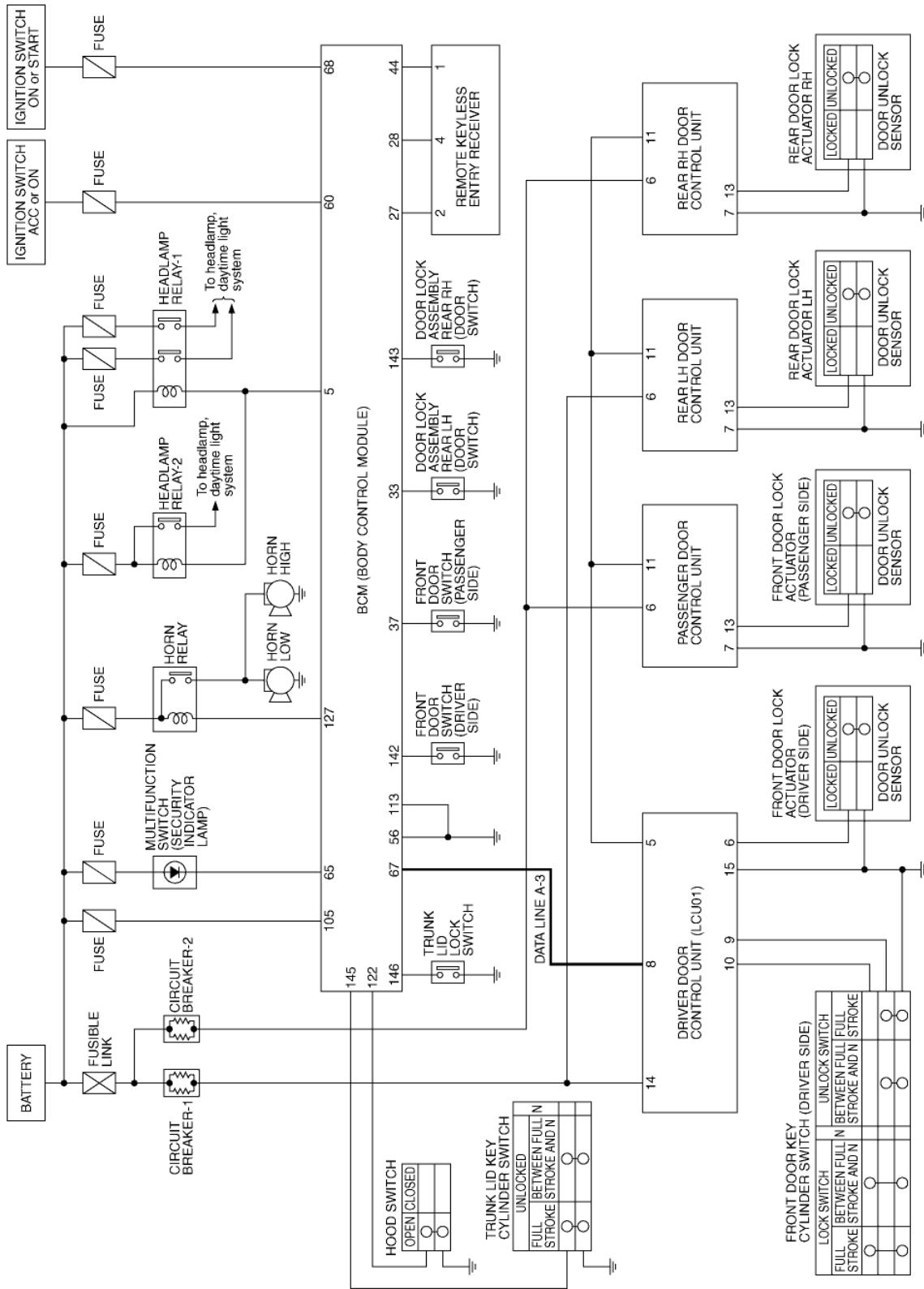
Zoom

Sized for Print

**Diagrams:** Other diagrams referred to by name within these diagrams can be found at [Diagrams By Diagram Name](#). See: [Diagrams By Diagram Name](#)

Schematic

EIS00306



TW/M0146E

[Select Vehicle](#) | [New TSBs](#) | [Technician's Reference](#)Component Search:   [Conversion Calculator](#)**2003 Infiniti Q45 V8-4.5L (VK45DE)**[Vehicle Level](#) → [Accessories and Optional Equipment](#) → [Keyless Entry](#) → [Testing and Inspection](#) → [Remote Keyless Entry System](#) → [Diagnostic Strategies](#) ←**Diagnostic Strategies**[Notes](#)**Work Flow**

1. Check the symptom and customer's requests.
2. Understand the outline of system.
3. Perform the preliminary check. Refer to BL-70, "Preliminary Check". [See: Initial Inspection \(Preliminary Check\)\Preliminary Check](#)
4. Perform the communication inspection. If CONSULT-II is used, refer to BL-73, "IVMS COMMUNICATION INSPECTION". [See: Description of On-Board Diagnostics\With Manufacturer's Scan Tool \(Infiniti CONSULT-II\)\IVMS Communication Inspection](#) If CONSULT-II is not used, refer to BL-77, "COMMUNICATION DIAGNOSIS". [See: Displaying & Reading Trouble Codes\Without Scan Tool\Communication Diagnosis Procedure](#) Is the communication diagnosis result OK? OK: GO TO step 7. NG: GO TO step 5.
5. Repair or replace depending on the diagnosis result.
6. Perform the communication diagnosis again. If CONSULT-II is used, refer to BL-73, "IVMS COMMUNICATION INSPECTION". [See: Description of On-Board Diagnostics\With Manufacturer's Scan Tool \(Infiniti CONSULT-II\)\IVMS Communication Inspection](#) If CONSULT-II is not used, refer to BL-77, "COMMUNICATION DIAGNOSIS". [See: Displaying & Reading Trouble Codes\Without Scan Tool\Communication Diagnosis Procedure](#) Is communication diagnosis result OK? OK: GO TO step 7. NG: GO TO step 5.
7. Referring to Trouble diagnosis chart, repair or replace the cause of the incident. Refer to "Trouble Diagnosis Chart by Symptom".
8. Does the remote keyless entry system operate normally? YES: GO TO step 9. NO: GO TO step 7.
9. Inspection end.

Select Vehicle | New TSBs | Technician's Reference

Component Search:

Conversion Calculator

**2003 Infiniti Q45 V8-4.5L (VK45DE)**

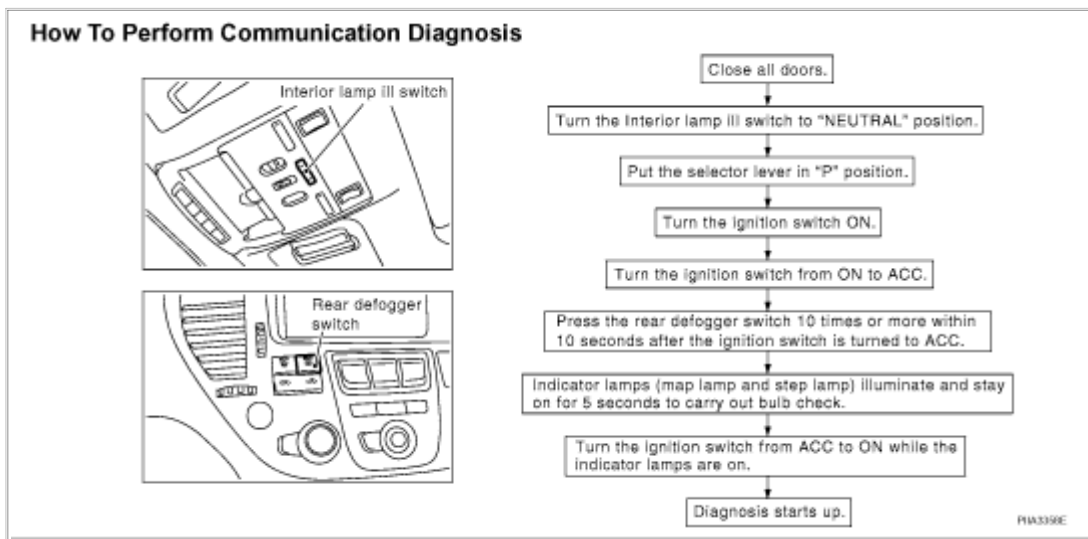
[Vehicle Level](#) → [Accessories and Optional Equipment](#) → [Keyless Entry](#) → [Testing and Inspection](#) → [Remote Keyless Entry System](#) → [Displaying & Reading Trouble Codes](#) → [Without Scan Tool](#) → [Communication Diagnosis Procedure](#) ←

**Communication Diagnosis Procedure**

[Notes](#)

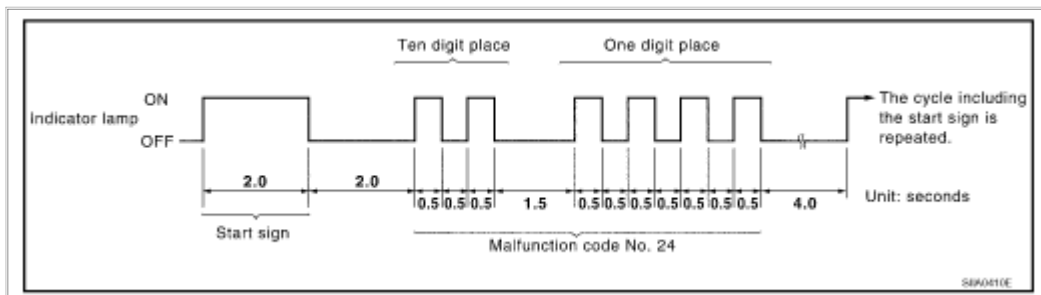
**COMMUNICATION DIAGNOSIS**

Check the communication between BCM and local control unit (LCU).



**How To Perform Communication Diagnosis**

**Description**



In this mode, a malfunction code is indicated by the number of flashes from the map lamps and step lamps as shown here:

After indicator lamp turns on for **2 seconds** then off for **2 seconds** , it flashes [cycling ON (**0.5 sec.**) /OFF (**0.5 sec.** )] to indicate a malfunction code of the first digit. Then, **1.5 second** after indicator lamp turns off, it again flashes [cycling ON (**0.5 sec.**) /OFF (**0.5 sec.**) ] to indicate a malfunction code of the second digit.

For example, the indicator lamp goes on and off for **0.5 seconds** twice and after **1.5 seconds** , it goes on and off for **0.5 seconds** four times. This indicates malfunction code of driver door control unit communication.

### Cancel of Communication Diagnosis

If one of the following conditions is satisfied, the communication diagnosis is cancelled.

- Turn ignition switch OFF.
- Drive the vehicle more than **7 km/h (4 MPH)** .
- **Ten minutes** have passed since the diagnosis result indication start without any diagnosis cancel operation.



Select Vehicle | New TSBs | Technician's Reference

Component Search:  OK

Conversion Calculator

2003 Infiniti Q45 V8-4.5L (VK45DE)


Vehicle Level → Accessories and Optional Equipment → Keyless Entry → Testing and Inspection → Remote Keyless Entry System → Displaying & Reading Trouble Codes → Without Scan Tool → Switch Monitor Procedure ←

### Switch Monitor Procedure

[Notes](#)

## SWITCH MONITOR

**How To Perform Switch Monitor**



```

    graph TD
      A[Close all doors.] --> B[Turn the interior lamp ill switch to "NEUTRAL" position and put the selector lever in "P" position.]
      B --> C[Turn the ignition switch ON.]
      C --> D[Turn the ignition switch from ON to ACC.]
      D --> E[Press the rear defogger switch 10 times or more within 10 seconds after the ignition switch is turned to ACC.]
      E --> F[Indicator lamps (map lamp and step lamp) illuminate and stay on for 5 seconds to carry out bulb check.]
      F --> G[Turn the ignition switch from ACC to ON with the rear defogger switch held down while the indicator lamps are on.]
      G --> H[Diagnosis starts up.]
      H --> I[Operate the switch to be checked.]
  
```

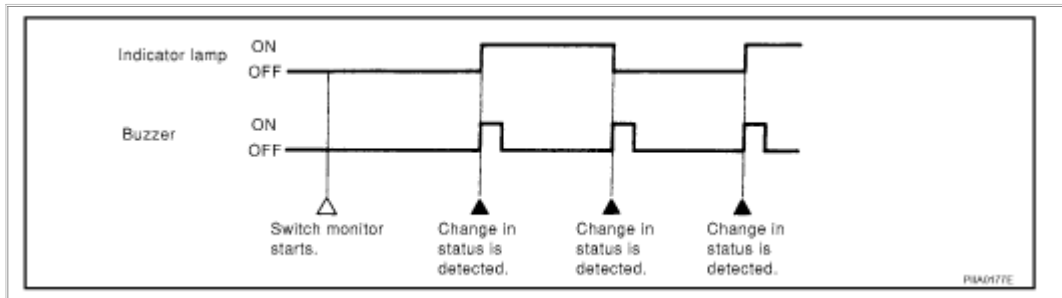
FRAC002E

Zoom

Sized for Print

### How To Perform Switch Monitor

#### Description



Zoom

Sized for Print

In this mode, when BCM detects the input signal from a switch in IVMS as shown here, the detection is indicated by the map lamp and step lamps with buzzer.

## Switch Monitor Item

Control unit	Item
BCM	All door switch
	Electronic key (lock / unlock switch and trunk switch)
Driver door control unit (LCU01)	Door lock & unlock switch (LOCK / UNLOCK)
	Driver door unlock sensor
Passenger door control unit.	Passenger door unlock sensor
RH rear door control unit.	Rear RH door unlock sensor
LH rear door control unit.	Rear LH door unlock sensor

[Zoom](#)[Sized for Print](#)

The status of the switch (except the ignition switch, interior ill lamp switch, and map lamp switch) as input to each control unit can be monitored.

### Cancel of Switch Monitor.

If one of the following conditions is satisfied, the switch monitor is cancelled.

- Turn ignition switch OFF.
- Drive the vehicle more than **7 km/h (4 MPH)** .

[Select Vehicle](#) | [New TSBs](#) | [Technician's Reference](#)
Component Search: 

OK

Conversion Calculator

### 2003 Infiniti Q45 V8-4.5L (VK45DE)

[Vehicle Level](#) → [Accessories and Optional Equipment](#) → [Keyless Entry](#) → [Testing and Inspection](#) → [Remote Keyless Entry System](#) → [Trouble Code Descriptions](#) ←

## Trouble Code Descriptions

[Notes](#)

Malfunction Code Table				
Malfunction item	Display unit	CONSULT-II IVMS communication diagnosis content	Self-diagnosis trouble code No.	Malfunctioning system and reference
COMM DATA	One LCU is displayed.	POWER WINDOW C/U-DR "COMM DATA"	24	Replace the displayed LCU.
		DOOR MIRROR C/U-RH "COMM DATA"	27	
		DOOR MIRROR C/U-LH "COMM DATA"	37	
		POWER SEAT C/U-DR "COMM DATA"	47	
	Multiple LCUs are displayed.	BCM "COMM FAIL1", "COMM FAIL2"	Displays in order of 24 →27→37→47 →and cycles from 24.	Communication system A: Refer to <a href="#">COMMUNICATION SYSTEM A</a>
NO RESPONSE	One LCU is displayed.	POWER WINDOW C/U-DR "NO RESPONSE"	25	Communication system B: Refer to <a href="#">COMMUNICATION SYSTEM B</a>
		DOOR MIRROR C/U-RH "NO RESPONSE"	28	
		DOOR MIRROR C/U-LH "NO RESPONSE"	38	
		POWER SEAT C/U-DR "NO RESPONSE"	48	
	Multiple LCUs are displayed.	BCM/HARNESS	Displays in order of 25→28→38→48 and cycles from 25.	Communication system C: Refer to <a href="#">COMMUNICATION SYSTEM C</a>
SLEEP malfunction	One LCU is displayed.	POWER WINDOW C/U-DR "SLEEP"	No self-diagnosis function	Replace the displayed LCU.
		DOOR MIRROR C/U-RH "SLEEP"		
		DOOR MIRROR C/U-LH "SLEEP"		
		POWER SEAT C/U-DR "SLEEP"		
	Multiple LCUs are displayed.	All the above control units are displayed.	No self-diagnosis function	Communication system A: Refer to <a href="#">COMMUNICATION SYSTEM A</a>

Zoom

Sized for Print

### Malfunction Code Table

#### NOTE:

- For a specific local control unit (LCU), either "PAST COMM DATA" or "PAST NO

RESPONSE" may be displayed instead of the above results. This is caused by the data record, so erase the records. (The display only shows the incident records, they are not malfunctions caused during the diagnosis. One possible cause is that an reproducible incident occurred.)

- Follow the steps below to erase the memory Perform either disconnect BCM battery power supply or erase memory with CONSULT-II.
- With the battery connected, if the local control unit (LCU) connector is disconnected and left for approximately **1 minute** , the BCM stores "NO RESPONSE" record.

© 2008 ALldata LLC. All rights reserved.

[Terms of Use](#)