

**2007 Dodge Nitro R/T**

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

**2007 ACCESSORIES AND EQUIPMENT****Audio/Video Systems - Electrical Diagnostics - Nitro****DIAGNOSTIC CODE INDEX****DIAGNOSTIC CODE INDEX**

<b>DTC</b>	<b>Description</b>
<b><u>B1401</u></b>	FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT LOW
<b><u>B1402</u></b>	FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT HIGH
<b><u>B1403</u></b>	FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT OPEN
<b><u>B1405</u></b>	FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT LOW
<b><u>B1406</u></b>	FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT HIGH
<b><u>B1407</u></b>	FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT OPEN
<b><u>B1409</u></b>	REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT LOW
<b><u>B140A</u></b>	REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT HIGH
<b><u>B140B</u></b>	REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT OPEN
<b><u>B140D</u></b>	REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT LOW
<b><u>B140E</u></b>	REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT HIGH
<b><u>B140F</u></b>	REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT OPEN
<b><u>B1420</u></b>	AUDIO CASSETTE ERROR/INOPERABLE CASSETTE
<b><u>B1421</u></b>	AUDIO CD READ ERROR/INOPERABLE DISC
<b><u>B1422</u></b>	AUDIO DVD READ ERROR/INOPERABLE DISC
<b><u>B1423</u></b>	VES DVD READ ERROR/INOPERABLE DISC
<b><u>B1424</u></b>	IMPROPER DVD-WRONG REGION
<b><u>B1429</u></b>	RADIO DISPLAY HIGH TEMPERATURE
<b><u>B142A</u></b>	RADIO UNIT HIGH TEMPERATURE
<b><u>B142C</u></b>	VES VIDEO SCREEN DISCONNECTED
<b><u>B142D</u></b>	AUDIO ANTENNA NOT CONNECTED
<b><u>B142E</u></b>	GPS ANTENNA NOT CONNECTED
<b><u>B142F</u></b>	SATELLITE RADIO ANTENNA NOT CONNECTED
<b><u>B1460</u></b>	CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE
<b><u>B1461</u></b>	CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT LOW
<b><u>B1462</u></b>	CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT HIGH
<b><u>B1463</u></b>	CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT OPEN
<b><u>B1464</u></b>	CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER
<b><u>B1465</u></b>	CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE
<b><u>B1466</u></b>	CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT LOW
<b><u>B1467</u></b>	CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT HIGH
<b><u>B1468</u></b>	CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT OPEN
<b><u>B1469</u></b>	CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER

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<b><u>B146A</u></b>	CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE
<b><u>B146B</u></b>	CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT LOW
<b><u>B146C</u></b>	CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT HIGH
<b><u>B146D</u></b>	CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT OPEN
<b><u>B146E</u></b>	CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER
<b><u>B146F</u></b>	CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE
<b><u>B1470</u></b>	CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT LOW
<b><u>B1471</u></b>	CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT HIGH
<b><u>B1472</u></b>	CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT OPEN
<b><u>B1473</u></b>	CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER
<b><u>B1474</u></b>	CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE
<b><u>B1475</u></b>	CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT LOW
<b><u>B1476</u></b>	CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT HIGH
<b><u>B1477</u></b>	CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT OPEN
<b><u>B1478</u></b>	CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER
<b><u>B1479</u></b>	CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE
<b><u>B147A</u></b>	CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT LOW
<b><u>B147B</u></b>	CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT HIGH
<b><u>B147C</u></b>	CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT OPEN
<b><u>B147D</u></b>	CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER
<b><u>B2222</u></b>	SATELLITE RADIO RECEIVER INTERNAL
<b><u>B222B</u></b>	VEHICLE ENTERTAINMENT SYSTEM INTERNAL
<b><u>U0019</u></b>	CAN INTERIOR BUS(+)/(-) CIRCUIT
<b><u>U0020</u></b>	CAN INTERIOR BUS OFF PERFORMANCE
<b><u>U0151</u></b>	LOST COMMUNICATION WITH OCCUPANT RESTRAINT CONTROLLER
<b><u>U0154</u></b>	LOST COMMUNICATION WITH OCCUPANT CLASSIFICATION MODULE
<b><u>U0184</u></b>	LOST COMMUNICATION WITH RADIO
<b><u>U0186</u></b>	LOST COMMUNICATION WITH AUDIO AMPLIFIER
<b><u>U0195</u></b>	LOST COMMUNICATION WITH SDAR
<b><u>U0197</u></b>	LOST COMMUNICATION WITH HANDS FREE MODULE
<b><u>U0199</u></b>	LOST COMMUNICATION WITH DRIVERS DOOR MODULE
<b><u>U0200</u></b>	LOST COMMUNICATION WITH PASSENGER DOOR MODULE

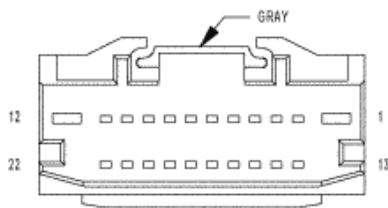
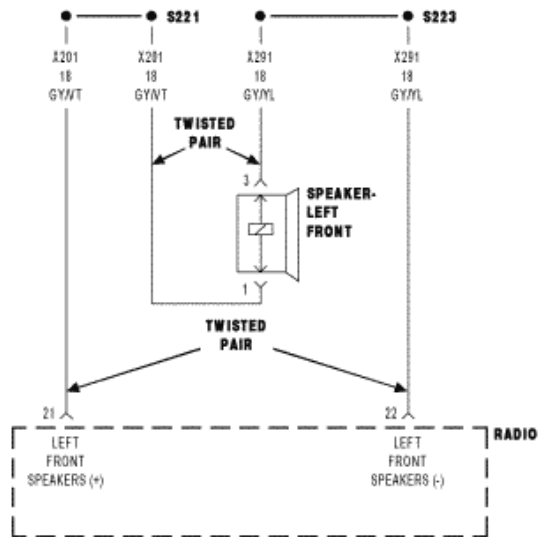
## AUDIO/VIDEO SYSTEMS - ELECTRICAL DIAGNOSTICS

### DIAGNOSIS AND TESTING

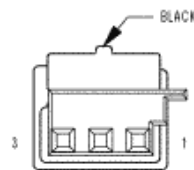
**B1401-FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT LOW**

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RADIO



SPEAKER-LEFT FRONT

01060015

**Fig. 1: Front Left Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

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With the radio on.

### **Set Condition:**

When the output circuit is LOW for more than three seconds.

### **Possible Causes**

(X201) LEFT FRONT SPEAKERS (+) CIRCUIT SHORTED TO GROUND  
(X291) LEFT FRONT SPEAKERS (-) CIRCUIT SHORTED TO GROUND  
SPEAKER

### **Diagnostic Test**

#### **1) INTERMITTENT CONDITION**

Turn the ignition on.

With the scan tool, clear all Radio DTC's.

Turn the Radio on.

With the scan tool, read the DTC information.

**Does the scan tool read: B1401-FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

#### **Yes**

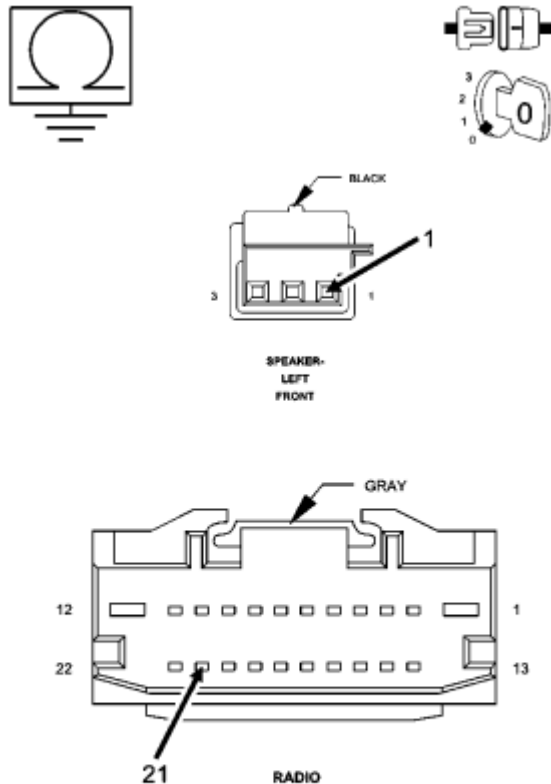
Go to 2).

#### **No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

#### **2) (X201) LEFT FRONT SPEAKERS (+) CIRCUIT SHORTED TO GROUND**



819c0219

**Fig. 2: Measuring Resistance Between Ground And (X201) Left Front Speakers (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Front Left Audio Speaker harness connector.

Measure the resistance between ground and the (X201) Left Front Speakers (+) circuit.

**Is the resistance below 1000.0 ohms?**

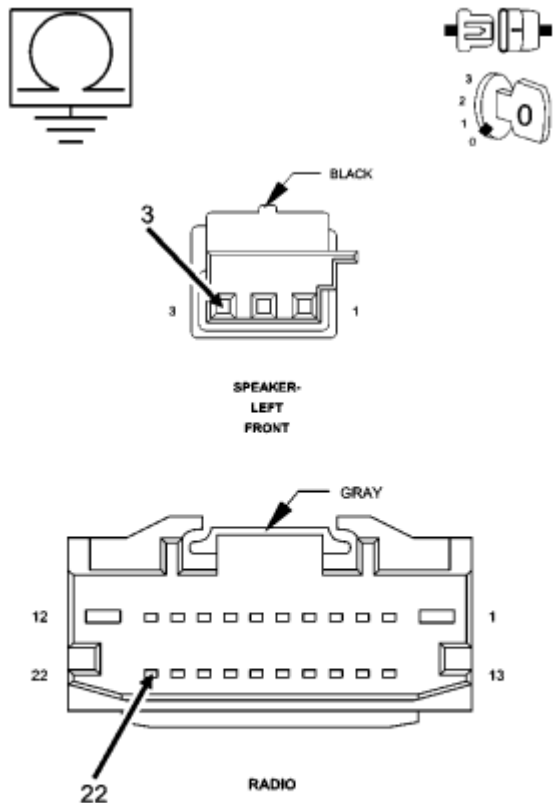
**Yes**

Repair the (X201) Left Front Speakers (+) circuit for a short to ground condition.  
 Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

### 3) (X291) LEFT FRONT SPEAKERS (-) CIRCUIT SHORTED TO GROUND



819c022c

**Fig. 3: Measuring Resistance Between Ground And (X291) Left Front Speakers (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure the resistance between ground and the (X291) Left Front Speakers (-) circuit.

**Is the resistance below 1000.0 ohms?**

**Yes**

Repair the (X291) Left Front Speakers (-) circuit for a short to ground condition.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 4).

### 4) SPEAKER

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Connect the Radio harness connector.

With the Front Left Audio Speaker still disconnected, turn the ignition on.

Turn the Radio on.

With the scan tool, clear all Radio DTC's.

With the scan tool, read the DTC information.

**Does the scan tool read: B1401-FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

Replace the Front Left Audio Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

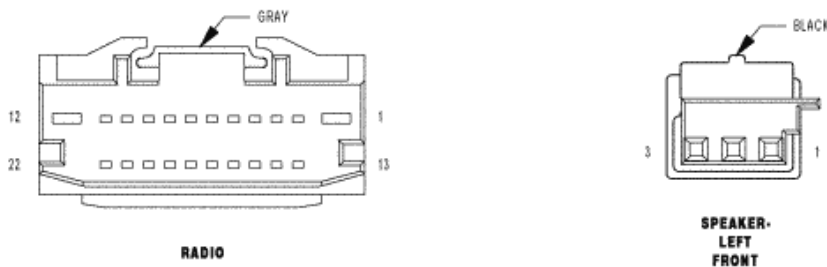
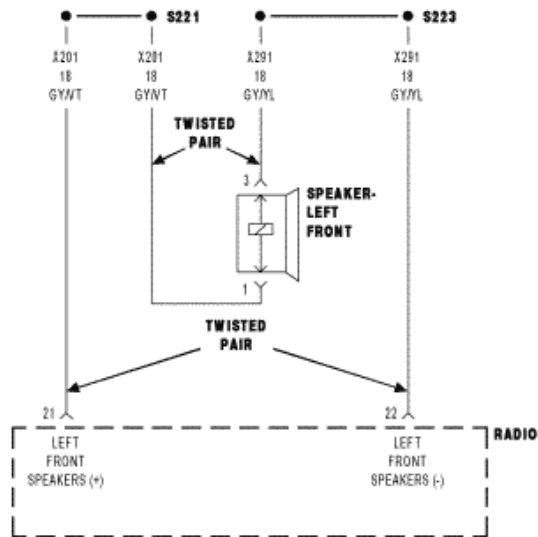
**No**

Test Complete.

**B1402-FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT HIGH**

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01060015

**Fig. 4: Front Left Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.



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### Possible Causes

(X201) LEFT FRONT SPEAKERS (+) CIRCUIT SHORTED TO VOLTAGE  
(X291) LEFT FRONT SPEAKERS (-) CIRCUIT SHORTED TO VOLTAGE  
SPEAKER

#### Diagnostic Test

#### 1) INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Radio DTCs.

**Does the scan tool display active: B1402-FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT HIGH?**

**Yes**

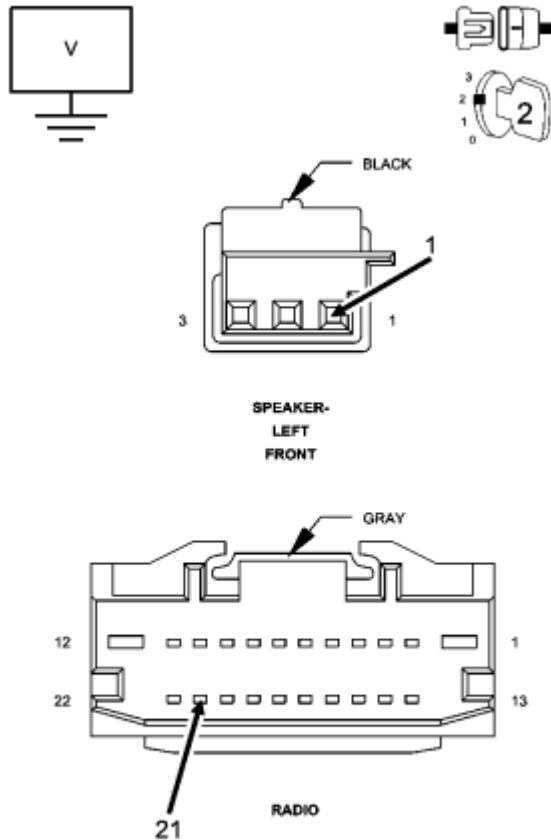
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

#### 2) (X201) LEFT FRONT SPEAKERS (+) CIRCUIT SHORTED TO VOLTAGE



819c027b

**Fig. 5: Measuring For Voltage On (X201) Left Front Speakers (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Left Front Audio Speaker harness connector.

Turn the ignition on.

Measure for voltage on the (X201) Left Front Speakers (+) circuit.

**Is the voltage above 10.0 volts?**

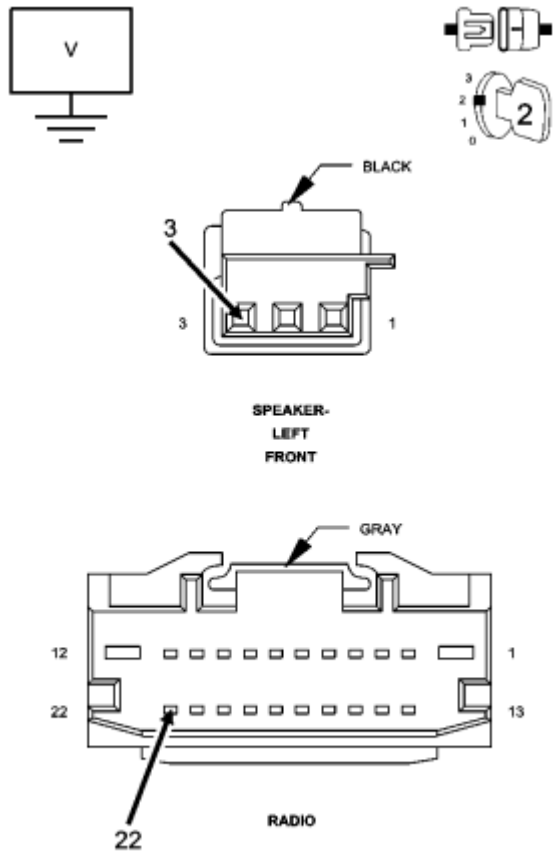
**Yes**

Repair the (X201) Left Front Speakers (+) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

Go to 3).

**3) (X291) LEFT FRONT SPEAKERS (-) CIRCUIT SHORTED TO VOLTAGE**



819c0283

**Fig. 6: Measuring For Voltage On (X291) Left Front Speakers (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure for voltage on the (X291) Left Front Speakers (-) circuit.

**Is the voltage above 10.0 volts?**

**Yes**

Repair the (X291) Left Front Speakers (-) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

**No**

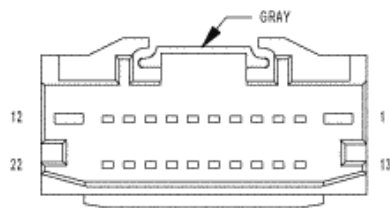
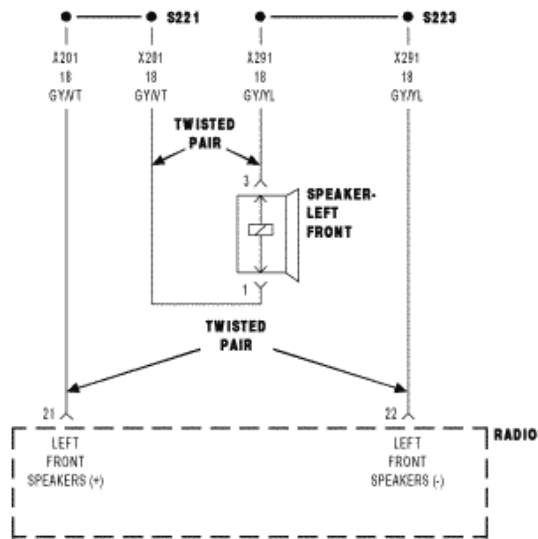
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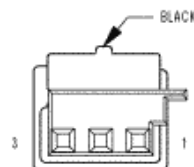
Replace the Radio in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1**.

## B1403-FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT OPEN



RADIO



SPEAKER-LEFT FRONT

**Fig. 7: Front Left Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the radio on.

**Set Condition:**

When the output circuit is open for more than three seconds. The radio will not set the fault if the radio confirms an amplifier is on the BUS.

Possible Causes
(X201) LEFT FRONT SPEAKERS (+) CIRCUIT OPEN
(X291) LEFT FRONT SPEAKERS (-) CIRCUIT OPEN
SPEAKER

**Diagnostic Test**

**1) INTERMITTENT CONDITION**

Turn the ignition on.

With the scan tool, clear all Radio DTC's.

Turn the Radio on.

With the scan tool, read the DTC information.

**Does the scan tool read: B1403-FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

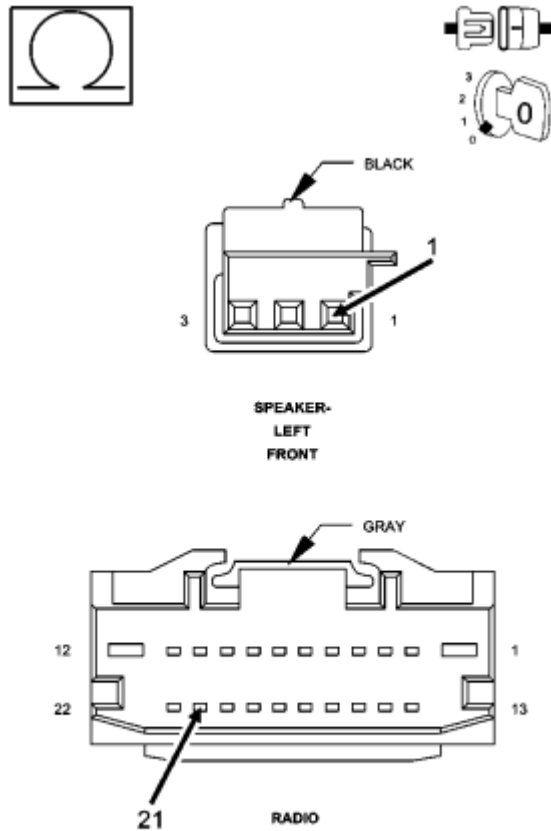
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) (X201) LEFT FRONT SPEAKERS (+) CIRCUIT OPEN**



819c052f

**Fig. 8: Measuring Resistance Of (X201) Left Front Speakers (+) Circuit Between Radio And Speaker**

Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Front Left Audio Speaker harness connector.

Measure the resistance of the (X201) Left Front Speakers (+) circuit between the Radio and the Speaker.

**Is the resistance below 5.0 ohms for each circuit?**

**Yes**

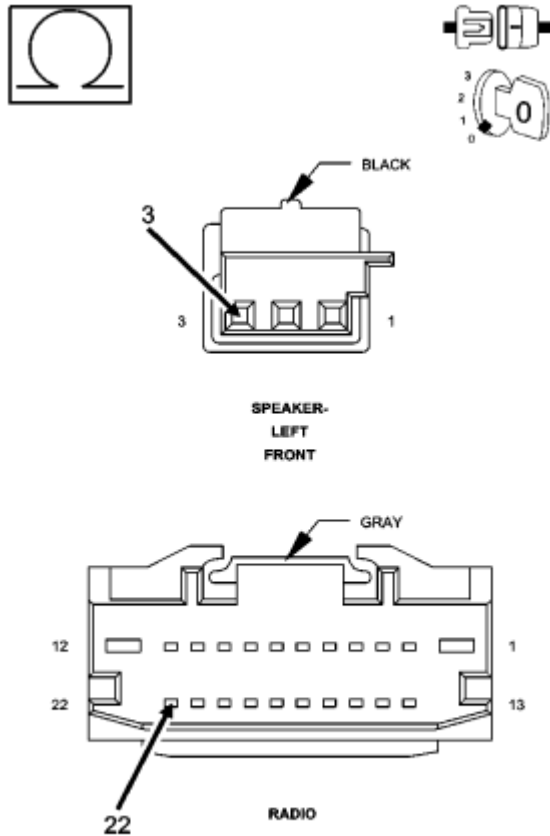
Go to 3).

**No**

Repair the (X201) Left Front Speakers (+) circuit for an open condition.

Perform **BODY VERIFICATION TEST - VER 1** .

**3) (X291) LEFT FRONT SPEAKERS (-) CIRCUIT OPEN**



819c0552

**Fig. 9: Measuring Resistance Of (X291) Left Front Speakers (-) Circuit Between Radio And Speaker**

Courtesy of CHRYSLER LLC

Measure the resistance of the (X291) Left Front Speakers (-) circuit between the Radio and the Speaker.

**Is the resistance below 5.0 ohms for each circuit?**

**Yes**

Go to 4).

**No**

Repair the (X291) Left Front Speakers (-) circuit for an open condition.

Perform **BODY VERIFICATION TEST - VER 1** .

**4) SPEAKER**

Connect the Radio harness connector.

With the Front Left Audio Speaker still disconnected, turn the ignition on.

Turn the Radio on.

With the scan tool, clear all Radio DTC's.

With the scan tool, read the DTC information.

**Does the scan tool read: B1403-FRONT LEFT AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

Replace the Front Left Audio Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

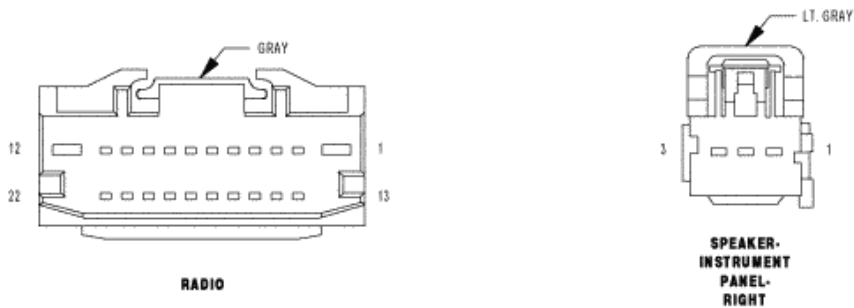
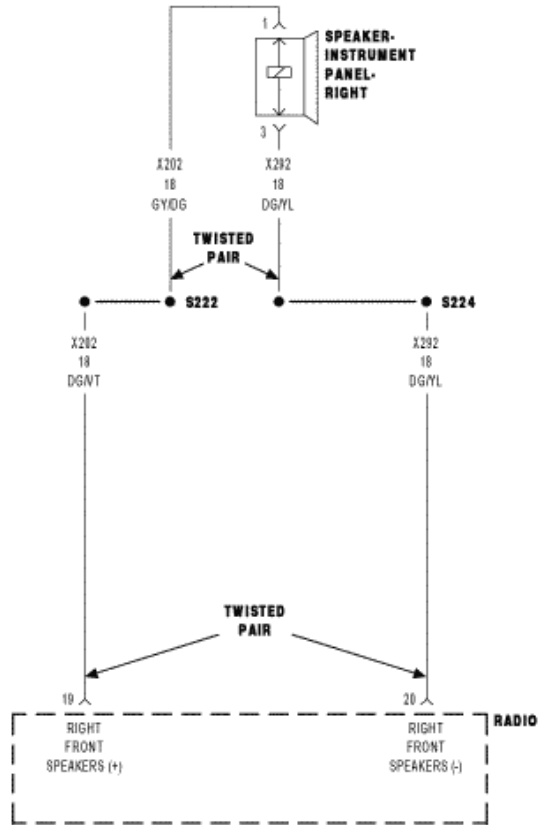
Test Complete.

**B1405-FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT LOW**



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819c057c

**Fig. 10: Front Right Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

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With the radio on.

### **Set Condition:**

When the output circuit is LOW for more than three seconds.

### **Possible Causes**

(X202) RIGHT FRONT SPEAKERS (+) CIRCUIT SHORTED TO GROUND  
(X292) RIGHT FRONT SPEAKERS (-) CIRCUIT SHORTED TO GROUND  
SPEAKER

### **Diagnostic Test**

#### **1) INTERMITTENT CONDITION**

Turn the ignition on.

With the scan tool, clear all Radio DTC's.

Turn the Radio on.

With the scan tool, read the DTC information.

**Does the scan tool read: B1405-FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

#### **Yes**

Go to 2).

#### **No**

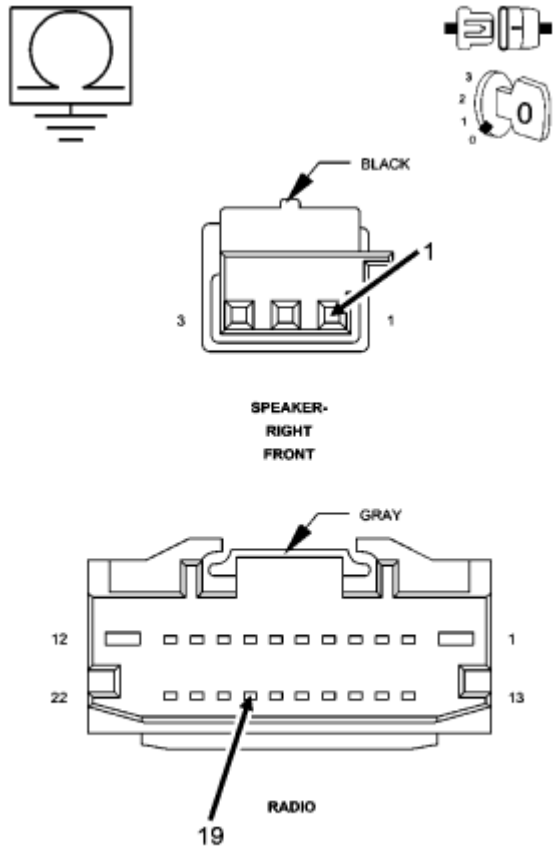
The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

#### **2) (X202) RIGHT FRONT SPEAKERS (+) CIRCUIT SHORTED TO GROUND**

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819c0581

**Fig. 11: Measuring Resistance Between Ground And (X202) Right Front Speakers (+) Circuit**  
Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Front Right Audio Speaker harness connector.

Measure the resistance between ground and the (X202) Right Front Speakers (+) circuit.

**Is the resistance below 1000.0 ohms?**

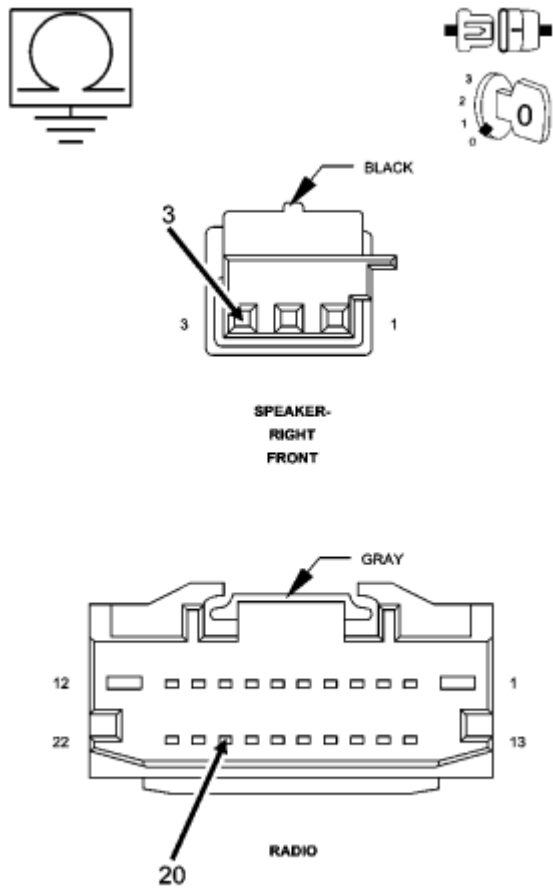
**Yes**

Repair the (X202) Right Front Speakers (+) circuit for a short to ground condition.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) (X292) RIGHT FRONT SPEAKERS (-) CIRCUIT SHORTED TO GROUND**



819c0593

**Fig. 12: Measuring Resistance Between Ground And (X292) Right Front Speakers (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure the resistance between ground and the (X292) Right Front Speakers (-) circuit.

**Is the resistance below 1000.0 ohms?**

**Yes**

Repair the (X292) Right Front Speakers (-) circuit for a short to ground condition.  
 Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 4).

**4) SPEAKER**

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Connect the Radio harness connector.

With the Front Right Audio Speaker still disconnected, turn the ignition on.

Turn the Radio on.

With the scan tool, clear all Radio DTC's.

With the scan tool, read the DTC information.

**Does the scan tool read: B1405-FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

Replace the Front Right Audio Speaker in accordance with the service information.  
Perform **BODY VERIFICATION TEST - VER 1** .

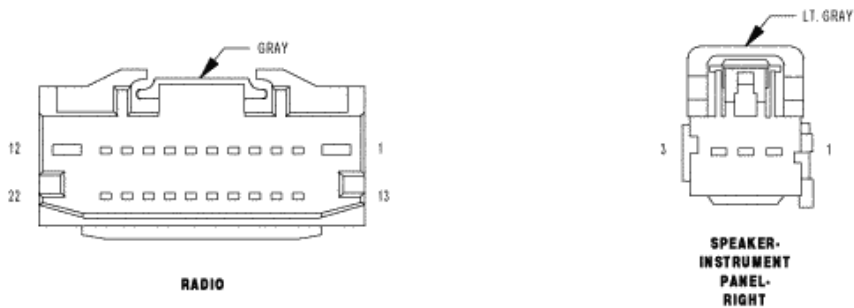
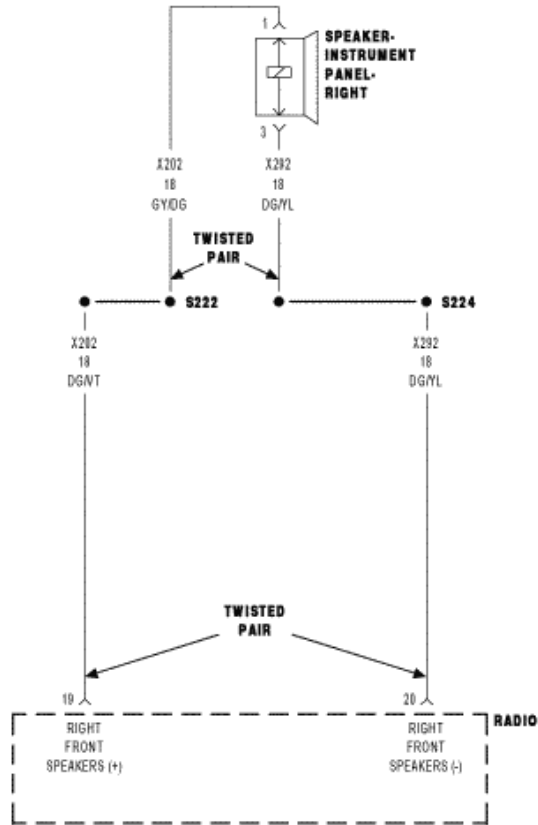
**No**

Test Complete.

**B1406-FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT HIGH**

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813c057c

**Fig. 13: Front Right Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

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### Possible Causes

(X202) RIGHT FRONT SPEAKERS (+) CIRCUIT SHORTED TO VOLTAGE  
(X292) RIGHT FRONT SPEAKERS (-) CIRCUIT SHORTED TO VOLTAGE  
SPEAKER

#### Diagnostic Test

#### 1) INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Radio DTCs.

**Does the scan tool display active: B1406-FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT HIGH?**

**Yes**

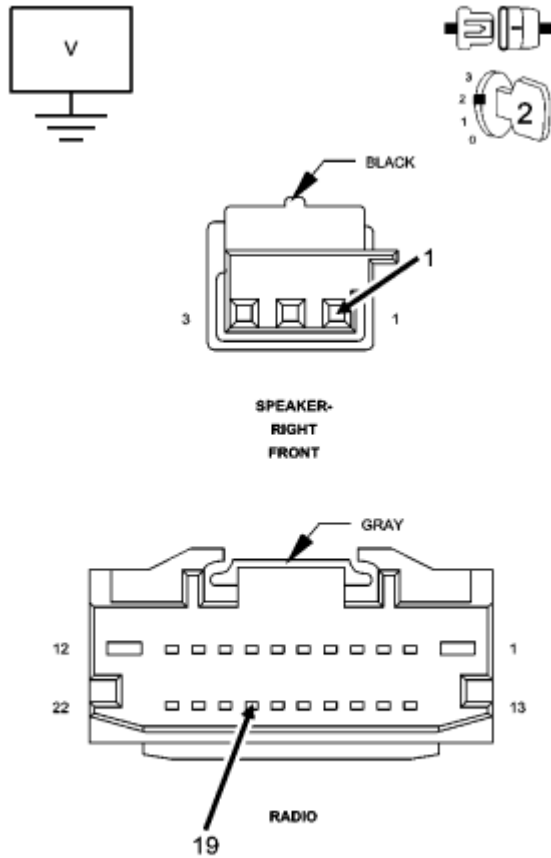
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

#### 2) (X202) RIGHT FRONT SPEAKERS (+) CIRCUIT SHORTED TO VOLTAGE



819c073b

**Fig. 14: Measuring For Voltage On (X202) Right Front Speakers (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Right Front Audio Speaker harness connector.

Turn the ignition on.

Measure for voltage on the (X202) Right Front Speakers (+) circuit.

**Is the voltage above 10.0 volts?**

**Yes**

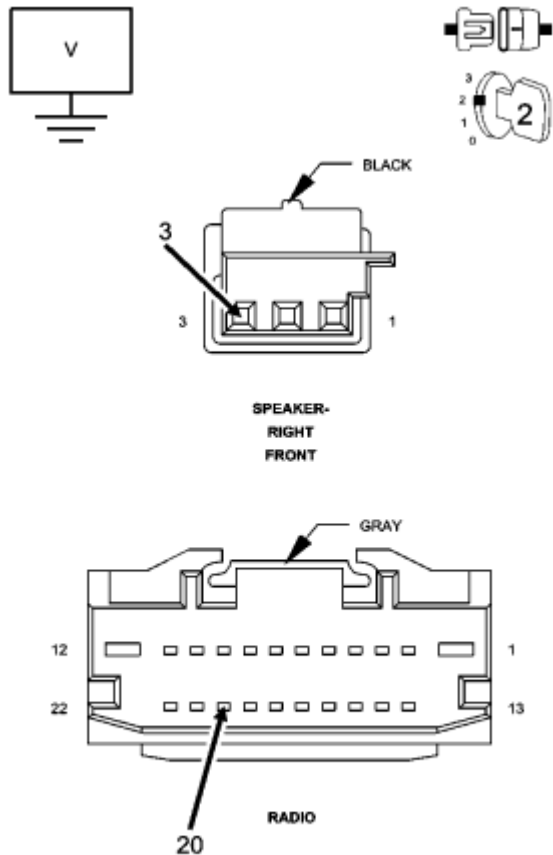
Repair the (X202) Right Front Speakers (+) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .



No

Go to 3).

**3) (X292) RIGHT FRONT SPEAKERS (-) CIRCUIT SHORTED TO VOLTAGE**



819c0746

**Fig. 15: Measuring For Voltage On (X292) Right Front Speakers (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure for voltage on the (X292) Right Front Speakers (-) circuit.

**Is the voltage above 10.0 volts?**

Yes

Repair the (X292) Right Front Speakers (-) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

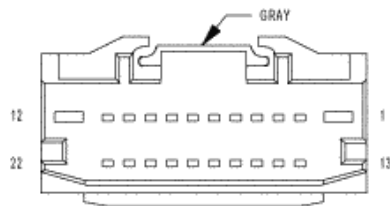
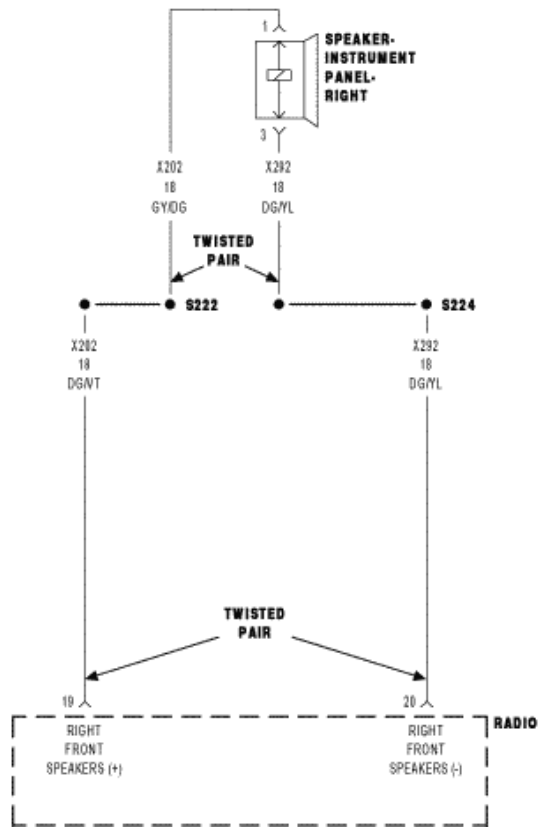
# 2007 Dodge Nitro R/T

## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

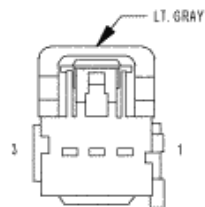
Replace the Radio in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1**.

### B1407-FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT OPEN



RADIO



SPEAKER-  
INSTRUMENT  
PANEL-  
RIGHT

**Fig. 16: Front Right Audio Speaker Output Circuit Schematic**

Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to [SYSTEM WIRING DIAGRAMS](#) article.

**When Monitored:**

With the radio on.

**Set Condition:**

When the output circuit is open for more than three seconds. The radio will not set the fault if the radio confirms an amplifier is on the BUS.

Possible Causes
(X202) RIGHT FRONT SPEAKERS (+) CIRCUIT OPEN
(X292) RIGHT FRONT SPEAKERS (-) CIRCUIT OPEN
SPEAKER

**Diagnostic Test****1) INTERMITTENT CONDITION**

Turn the ignition on.

With the scan tool, clear all Radio DTC's.

Turn the Radio on.

With the scan tool, read the DTC information.

**Does the scan tool read: B1407-FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

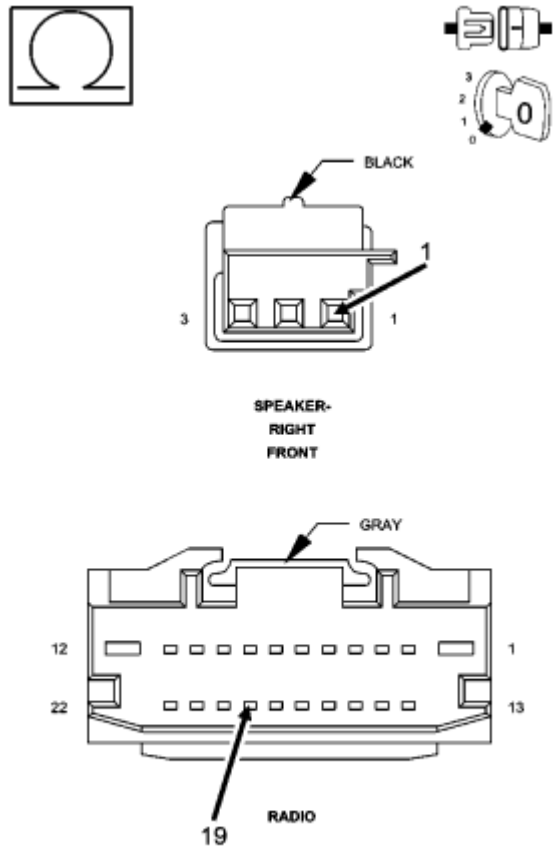
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) (X202) RIGHT FRONT SPEAKERS (+) CIRCUIT OPEN**



819c074d

**Fig. 17: Measuring Resistance Of (X202) Right Front Speakers (+) Circuit Between Radio And Speaker**

Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Front Right Audio Speaker harness connector.

Measure the resistance of the (X202) Right Front Speakers (+) circuit between the Radio and the Speaker.

**Is the resistance below 5.0 ohms for each circuit?**

**Yes**

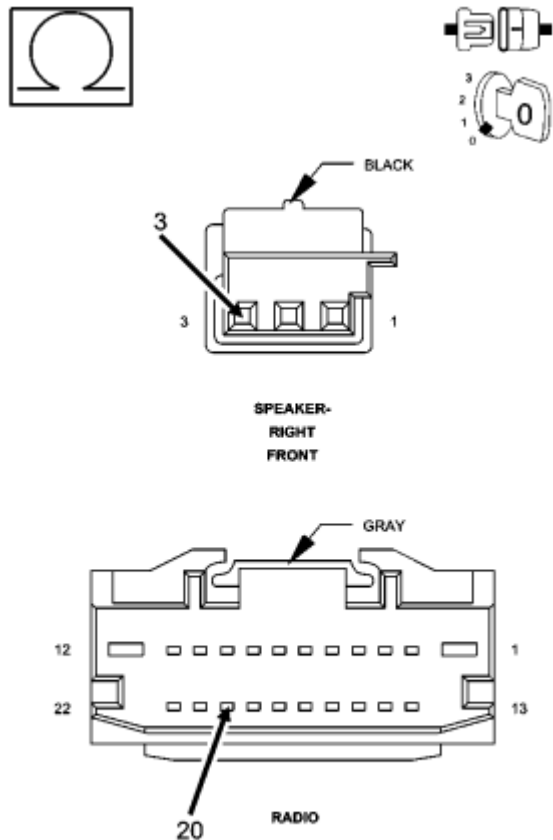
Go to 3).

**No**

Repair the (X202) Right Front Speakers (+) circuit for an open condition.

Perform **BODY VERIFICATION TEST - VER 1** .

### 3) (X292) RIGHT FRONT SPEAKERS (-) CIRCUIT OPEN



819c0751

**Fig. 18: Measuring Resistance Of (X292) Right Front Speakers (-) Circuit Between Radio And Speaker**

Courtesy of CHRYSLER LLC

Measure the resistance of the (X292) Right Front Speakers (-) circuit between the Radio and the Speaker.

**Is the resistance below 5.0 ohms for each circuit?**

**Yes**

Go to 4).

**No**

Repair the (X292) Right Front Speakers (-) circuit for an open condition.

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Perform **BODY VERIFICATION TEST - VER 1** .

### 4) SPEAKER

Connect the Radio harness connector.

With the Front Right Audio Speaker still disconnected, turn the ignition on.

Turn the Radio on.

With the scan tool, clear all Radio DTC's.

With the scan tool, read the DTC information.

**Does the scan tool read: B1407-FRONT RIGHT AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

Replace the Front Right Audio Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

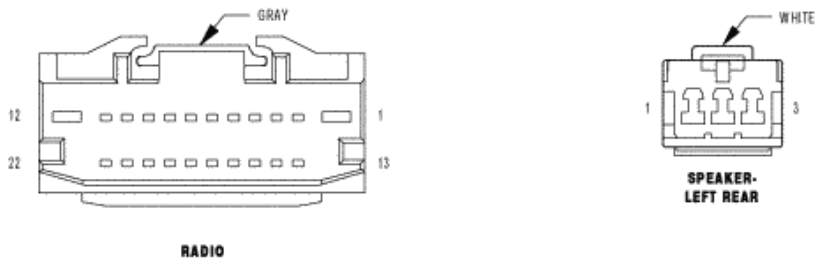
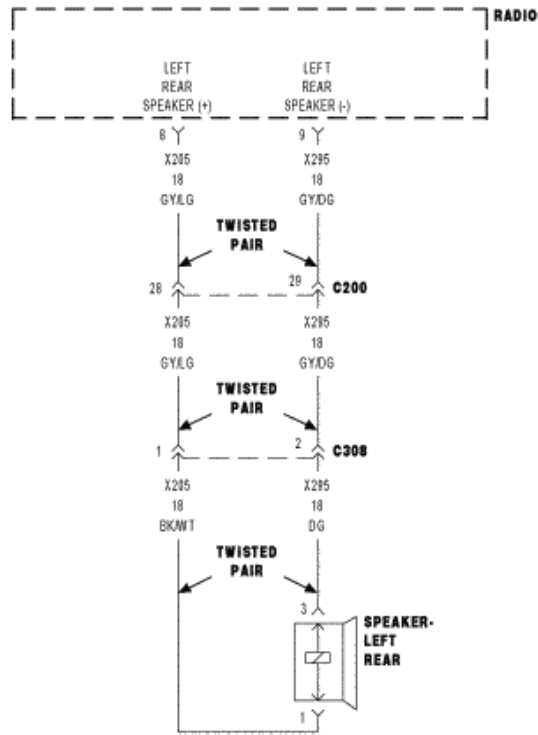
**No**

Test Complete.

**B1409-REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT LOW**

# 2007 Dodge Nitro R/T

## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



**Fig. 19: Rear Left Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

## 2007 Dodge Nitro R/T

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With the radio on.

### Set Condition:

When the output circuit is LOW for more than three seconds.

### Possible Causes

(X205) LEFT REAR SPEAKER (+) CIRCUIT SHORTED TO GROUND  
(X295) LEFT REAR SPEAKER (-) CIRCUIT SHORTED TO GROUND  
SPEAKER

### Diagnostic Test

#### 1) INTERMITTENT CONDITION

Turn the ignition on.

With the scan tool, clear all Radio DTC's.

Turn the Radio on.

With the scan tool, read the DTC information.

**Does the scan tool read: B1409-REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

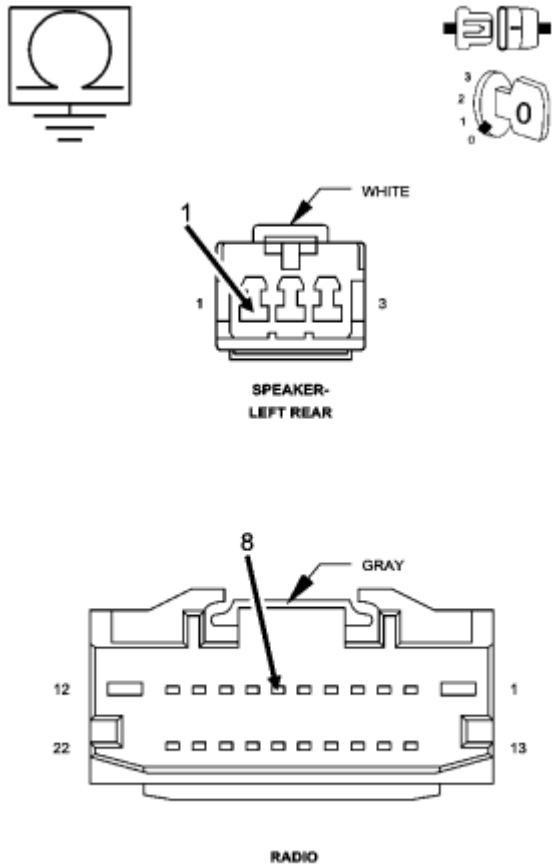
Perform **BODY VERIFICATION TEST - VER 1** .

#### 2) (X205) LEFT REAR SPEAKER (+) CIRCUIT SHORTED TO GROUND



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819c08f2

**Fig. 20: Measuring Resistance Between Ground And (X205) Left Rear Speaker (+) Circuit**  
Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Rear Left Audio Speaker harness connector.

Measure the resistance between ground and the (X205) Left Rear Speaker (+) circuit.

**Is the resistance below 1000.0 ohms?**

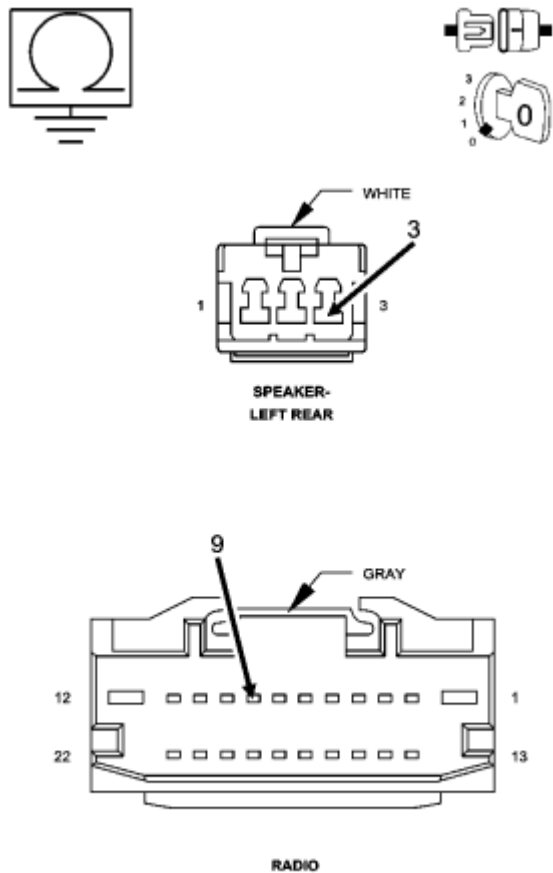
**Yes**

Repair the (X205) Left Rear Speaker (+) circuit for a short to ground condition.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) (X295) LEFT REAR SPEAKER (-) CIRCUIT SHORTED TO GROUND**



819c0904

**Fig. 21: Measuring Resistance Between Ground And (X295) Left Rear Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure the resistance between ground and the (X295) Left Rear Speaker (-) circuit.

**Is the resistance below 1000.0 ohms?**

**Yes**

Repair the (X295) Left Rear Speaker (-) circuit for a short to ground condition.  
 Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 4).

**4) SPEAKER**

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Connect the Radio harness connector.

With the Rear Left Audio Speaker still disconnected, turn the ignition on.

Turn the Radio on.

With the scan tool, clear all Radio DTC's.

With the scan tool, read the DTC information.

**Does the scan tool read: B1409-REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

Replace the Rear Left Audio Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

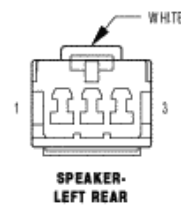
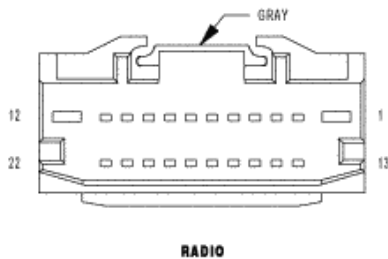
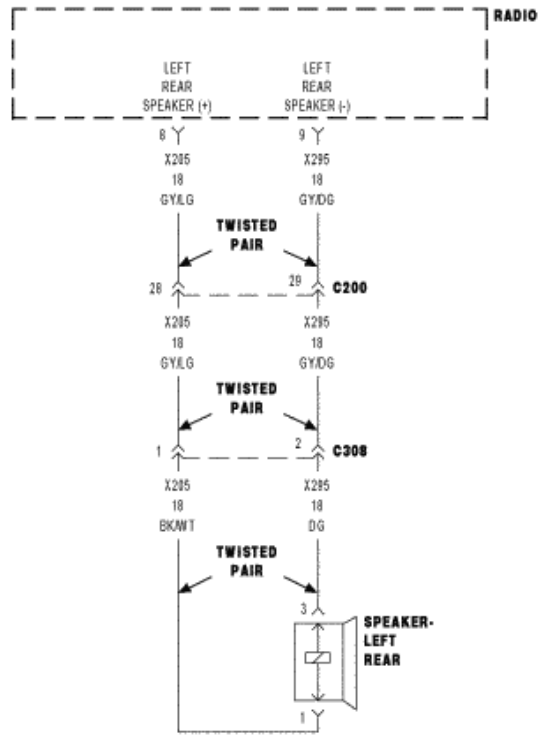
**No**

Test Complete.

**B140A-REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT HIGH**

# 2007 Dodge Nitro R/T

## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



813c00a

**Fig. 22: Rear Left Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

## 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

### Possible Causes

(X205) LEFT REAR SPEAKER (+) CIRCUIT SHORTED TO VOLTAGE  
(X295) LEFT REAR SPEAKER (-) CIRCUIT SHORTED TO VOLTAGE  
SPEAKER

### Diagnostic Test

#### 1) INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Radio DTCs.

**Does the scan tool display active: B140A-REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT HIGH?**

**Yes**

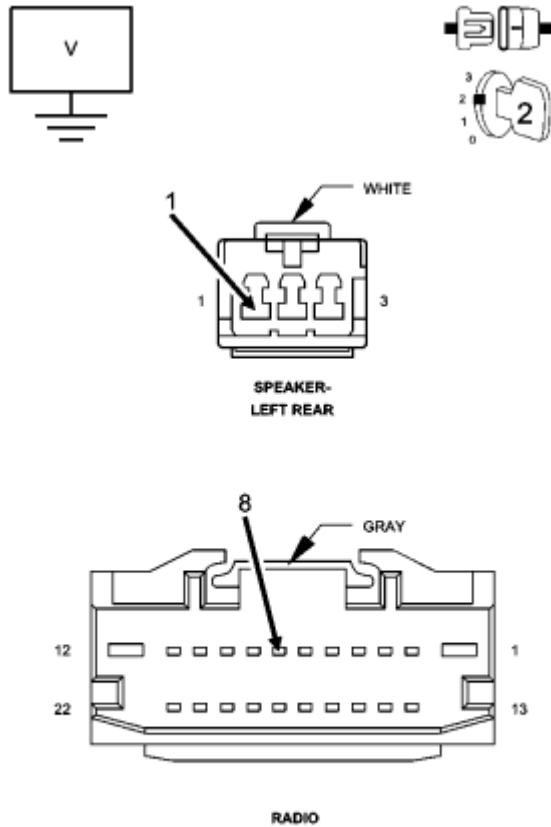
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

#### 2) (X205) LEFT REAR SPEAKER (+) CIRCUIT SHORTED TO VOLTAGE



819c0960

**Fig. 23: Measuring For Voltage On (X205) Left Rear Speaker (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Left Rear Audio Speaker harness connector.

Turn the ignition on.

Measure for voltage on the (X205) Left Rear Speaker (+) circuit.

**Is the voltage above 10.0 volts?**

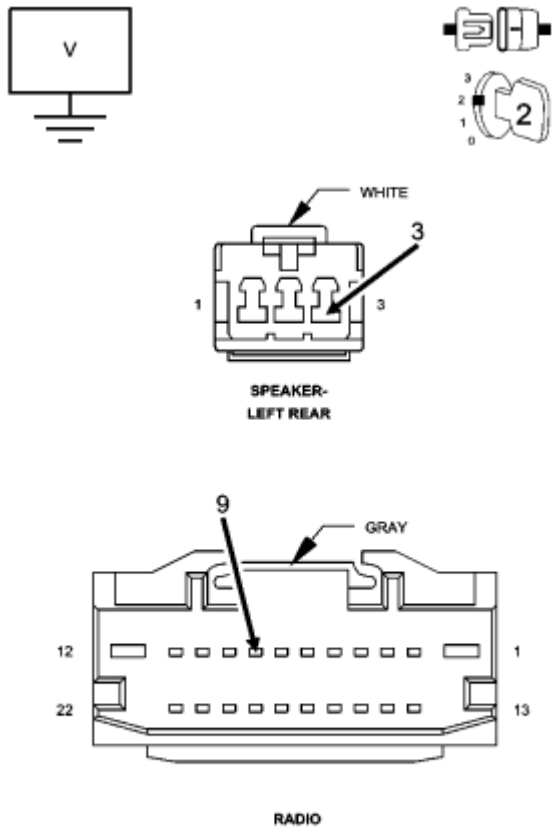
**Yes**

Repair the (X205) Left Rear Speaker (+) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

Go to 3).

**3) (X295) LEFT REAR SPEAKER (-) CIRCUIT SHORTED TO VOLTAGE**



819c0971

**Fig. 24: Measuring For Voltage On (X295) Left Rear Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure for voltage on the (X295) Left Rear Speaker (-) circuit.

**Is the voltage above 10.0 volts?**

**Yes**

Repair the (X295) Left Rear Speaker (-) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

**No**

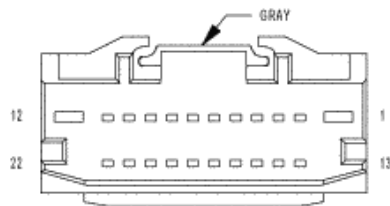
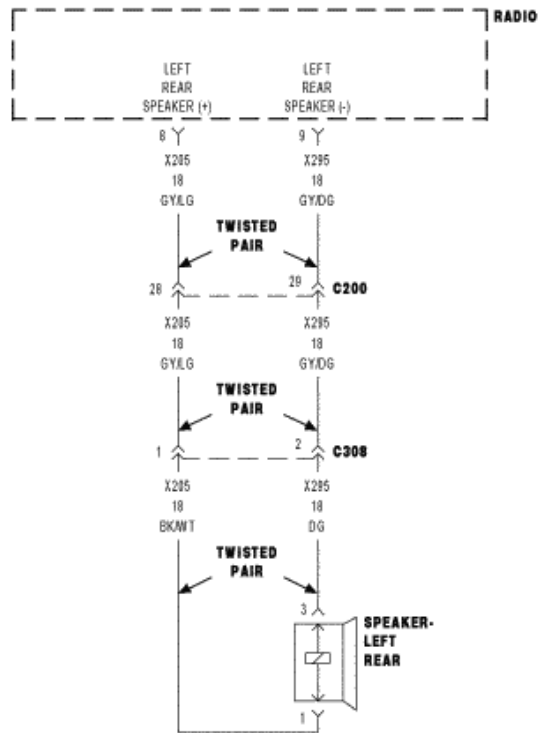
# 2007 Dodge Nitro R/T

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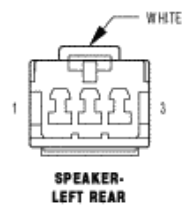
Replace the Radio in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1**.

## B140B-REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT OPEN



RADIO



SPEAKER-LEFT REAR



**Fig. 25: Rear Left Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the radio on.

**Set Condition:**

When the output circuit is open for more than three seconds. The radio will not set the fault if the radio confirms an amplifier is on the BUS.

Possible Causes
(X205) LEFT REAR SPEAKER (+) CIRCUIT OPEN (X295) LEFT REAR SPEAKER (-) CIRCUIT OPEN SPEAKER

**Diagnostic Test**

**1) INTERMITTENT CONDITION**

Turn the ignition on.

With the scan tool, clear all Radio DTC's.

Turn the Radio on.

With the scan tool, read the DTC information.

**Does the scan tool read: B140B-REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

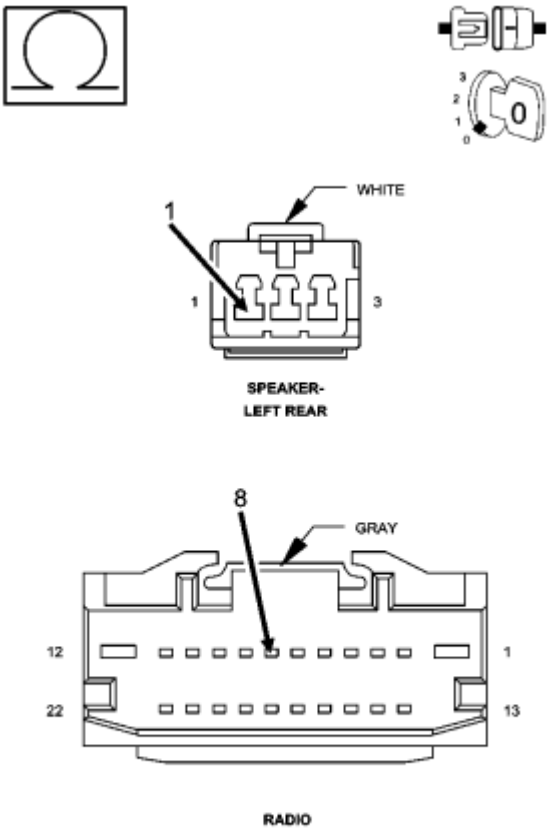
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) (X205) LEFT REAR SPEAKER (+) CIRCUIT OPEN**



819c0975

**Fig. 26: Measuring Resistance Of (X205) Left Rear Speaker (+) Circuit Between Radio And Speaker**

Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Rear Left Audio Speaker harness connector.

Measure the resistance of the (X205) Left Rear Speaker (+) circuit between the Radio and the Speaker.

**Is the resistance below 5.0 ohms for each circuit?**

**Yes**

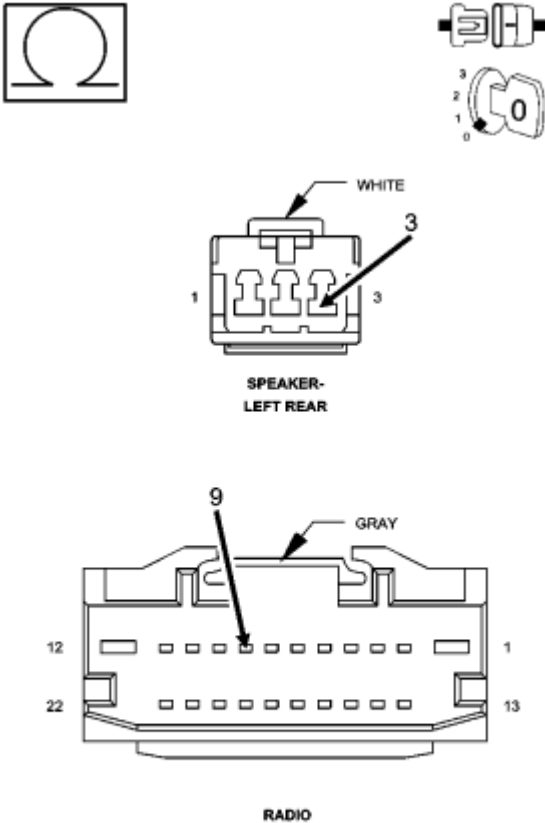
Go to 3).

**No**

Repair the (X205) Left Rear Speaker (+) circuit for an open condition.

Perform **BODY VERIFICATION TEST - VER 1** .

**3) (X295) LEFT REAR SPEAKER (-) CIRCUIT OPEN**



819c097c

**Fig. 27: Measuring Resistance Of (X295) Left Rear Speaker (-) Circuit Between Radio And Speaker**

Courtesy of CHRYSLER LLC

Measure the resistance of the (X295) Left Rear Speaker (-) circuit between the Radio and the Speaker.

**Is the resistance below 5.0 ohms for each circuit?**

**Yes**

Go to 4).

**No**

Repair the (X295) Left Rear Speaker (-) circuit for an open condition.

Perform **BODY VERIFICATION TEST - VER 1** .

**4) SPEAKER**

Connect the Radio harness connector.

With the Rear Left Audio Speaker still disconnected, turn the ignition on.

Turn the Radio on.

With the scan tool, clear all Radio DTC's.

With the scan tool, read the DTC information.

**Does the scan tool read: B140B-REAR LEFT AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

Replace the Rear Left Audio Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

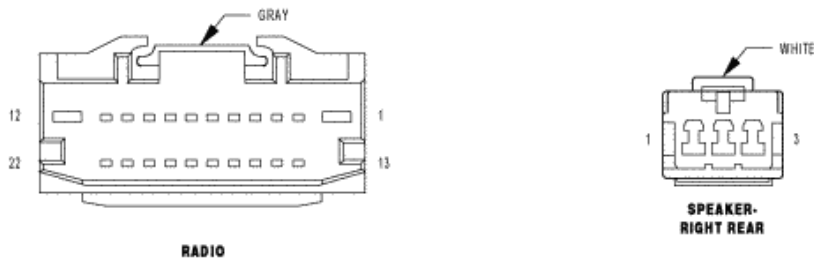
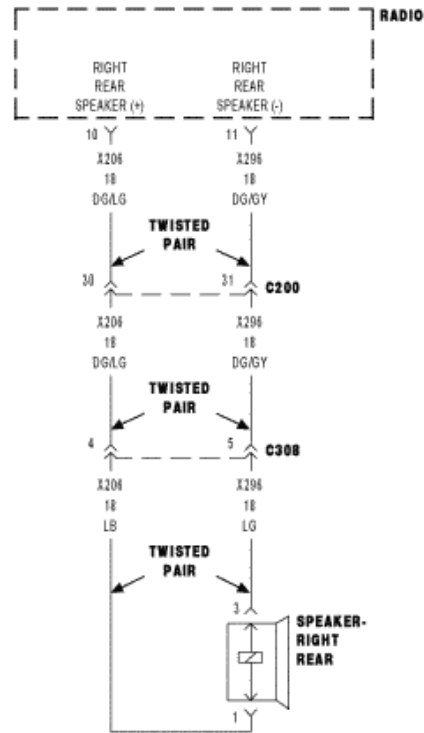
**No**

Test Complete.

**B140D-REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT LOW**

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810c0034

**Fig. 28: Rear Right Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

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With the radio on.

### **Set Condition:**

When the output circuit is LOW for more than three seconds.

### **Possible Causes**

(X206) RIGHT REAR SPEAKER (+) CIRCUIT SHORTED TO GROUND  
(X296) RIGHT REAR SPEAKER (-) CIRCUIT SHORTED TO GROUND  
SPEAKER

### **Diagnostic Test**

#### **1) INTERMITTENT CONDITION**

Turn the ignition on.

With the scan tool, clear all Radio DTC's.

Turn the Radio on.

With the scan tool, read the DTC information.

**Does the scan tool read: B140D-REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

#### **Yes**

Go to 2).

#### **No**

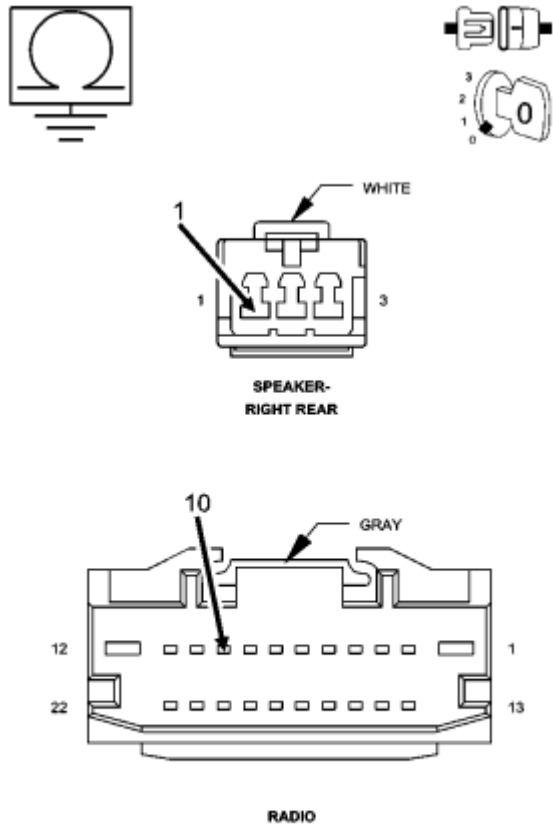
The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

#### **2) (X206) RIGHT REAR SPEAKER (+) CIRCUIT SHORTED TO GROUND**

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2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



819c0b58

**Fig. 29: Measuring Resistance Between Ground And (X206) Right Rear Speaker (+) Circuit**  
Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Rear Right Audio Speaker harness connector.

Measure the resistance between ground and the (X206) Right Rear Speaker (+) circuit.

**Is the resistance below 1000.0 ohms?**

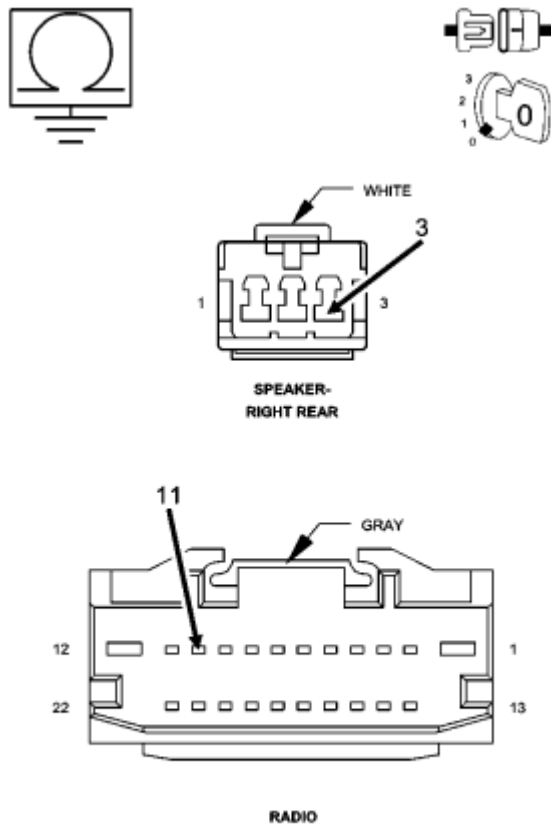
**Yes**

Repair the (X206) Right Rear Speaker (+) circuit for a short to ground condition.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) (X296) RIGHT REAR SPEAKER (-) CIRCUIT SHORTED TO GROUND**



819c0b60

**Fig. 30: Measuring Resistance Between Ground And (X296) Right Rear Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure the resistance between ground and the (X296) Right Rear Speaker (-) circuit.

**Is the resistance below 1000.0 ohms?**

**Yes**

Repair the (X296) Right Rear Speaker (-) circuit for a short to ground condition.  
 Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 4).

**4) SPEAKER**



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Connect the Radio harness connector.

With the Rear Right Audio Speaker still disconnected, turn the ignition on.

Turn the Radio on.

With the scan tool, clear all Radio DTC's.

With the scan tool, read the DTC information.

**Does the scan tool read: B140D-REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

Replace the Rear Right Audio Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

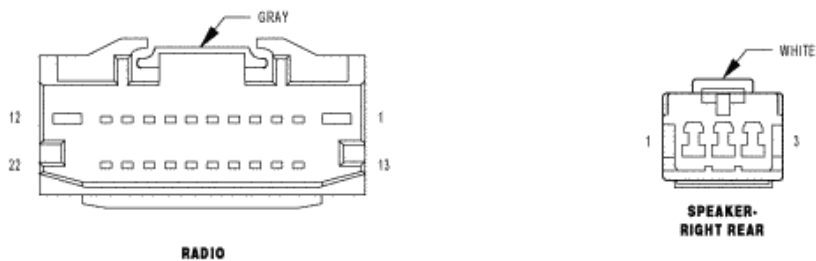
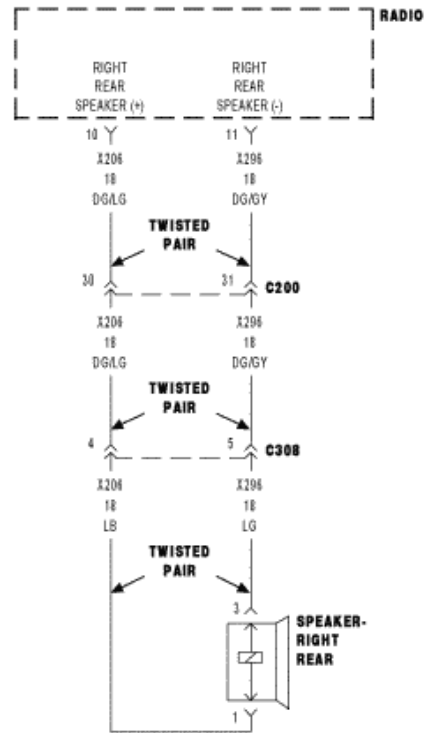
**No**

Test Complete.

**B140E-REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT HIGH**

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## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



810c0034

**Fig. 31: Rear Right Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

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### Possible Causes

(X206) RIGHT REAR SPEAKER (+) CIRCUIT SHORTED TO VOLTAGE  
(X296) RIGHT REAR SPEAKER (-) CIRCUIT SHORTED TO VOLTAGE  
SPEAKER

### Diagnostic Test

#### 1) INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Radio DTCs.

**Does the scan tool display active: B140E-REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT HIGH?**

**Yes**

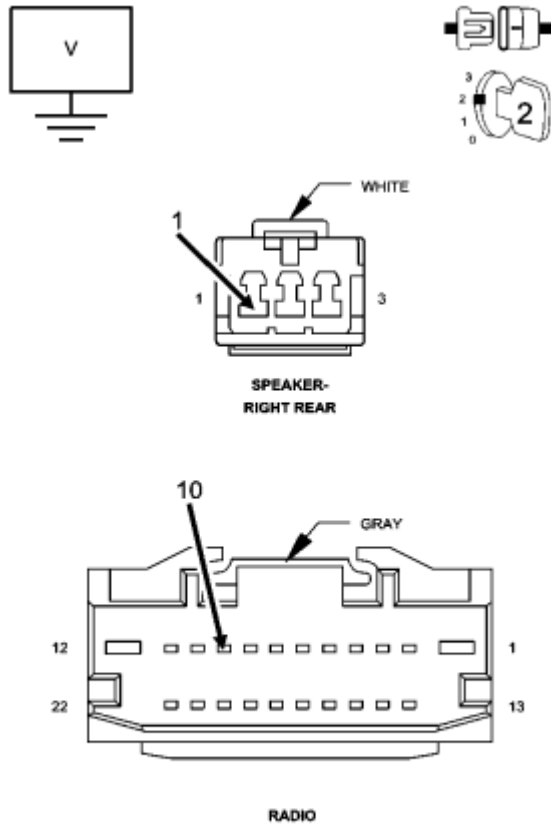
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

#### 2) (X206) RIGHT REAR SPEAKER (+) CIRCUIT SHORTED TO VOLTAGE



819c0b9a

**Fig. 32: Measuring For Voltage On (X206) Right Rear Speaker (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Right Rear Audio Speaker harness connector.

Turn the ignition on.

Measure for voltage on the (X206) Right Rear Speaker (+) circuit.

**Is the voltage above 10.0 volts?**

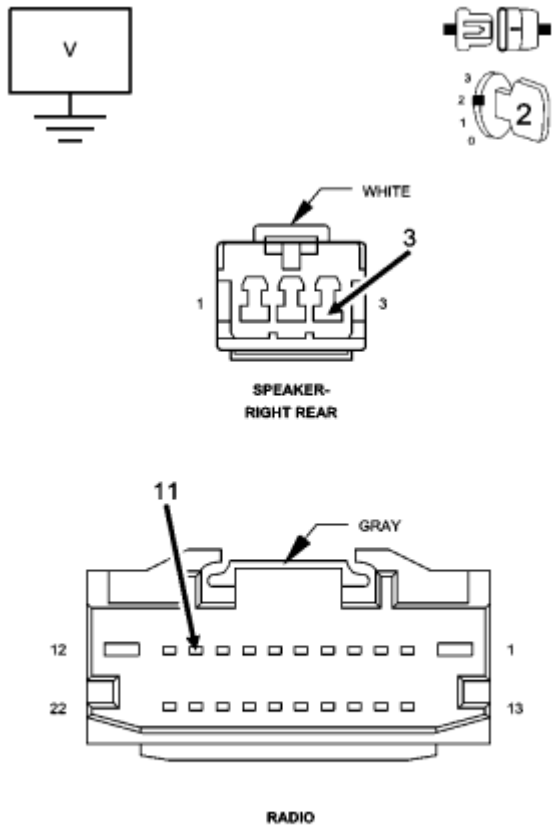
**Yes**

Repair the (X206) Right Rear Speaker (+) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

Go to 3).

**3) (X296) RIGHT REAR SPEAKER (-) CIRCUIT SHORTED TO VOLTAGE**



819c0ba8

**Fig. 33: Measuring For Voltage On (X296) Right Rear Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure for voltage on the (X296) Right Rear Speaker (-) circuit.

**Is the voltage above 10.0 volts?**

**Yes**

Repair the (X296) Right Rear Speaker (-) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

**No**

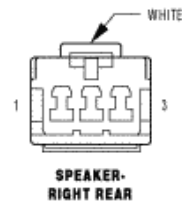
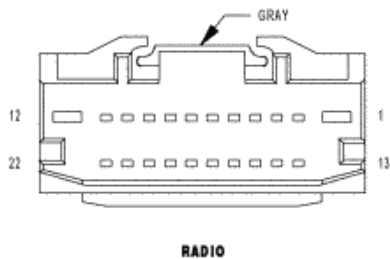
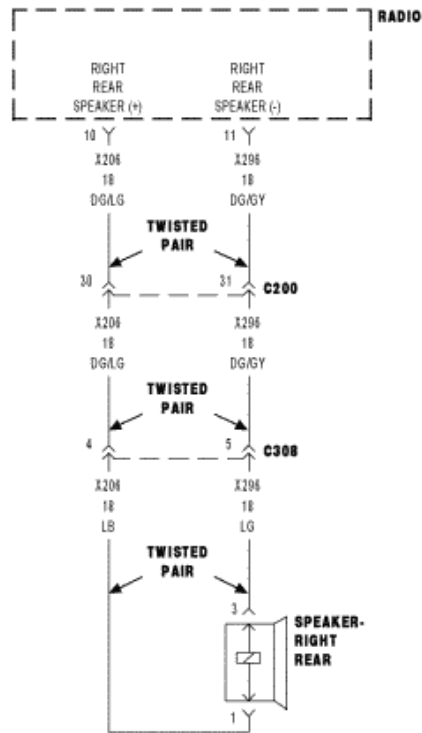
# 2007 Dodge Nitro R/T

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Replace the Radio in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1**.

## B140F-REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT OPEN



**Fig. 34: Rear Right Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the radio on.

**Set Condition:**

When the output circuit is open for more than three seconds. The radio will not set the fault if the radio confirms an amplifier is on the BUS.

Possible Causes
(X206) RIGHT REAR SPEAKER (+) CIRCUIT OPEN
(X296) RIGHT REAR SPEAKER (-) CIRCUIT OPEN
SPEAKER

**Diagnostic Test**

**1) INTERMITTENT CONDITION**

Turn the ignition on.

With the scan tool, clear all Radio DTC's.

Turn the Radio on.

With the scan tool, read the DTC information.

**Does the scan tool read: B140F-REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

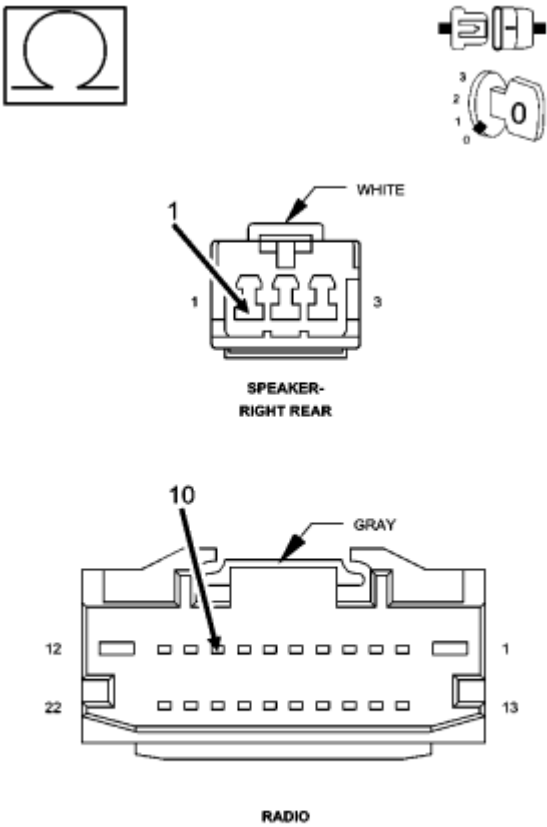
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) (X206) RIGHT REAR SPEAKER (+) CIRCUIT OPEN**



819c0bb5

**Fig. 35: Measuring Resistance Of (X206) Right Rear Speaker (+) Circuit Between Radio And Speaker**

Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Radio harness connector.

Disconnect the Rear Right Audio Speaker harness connector.

Measure the resistance of the (X206) Right Rear Speaker (+) circuit between the Radio and the Speaker.

**Is the resistance below 5.0 ohms for each circuit?**

**Yes**

Go to 3).

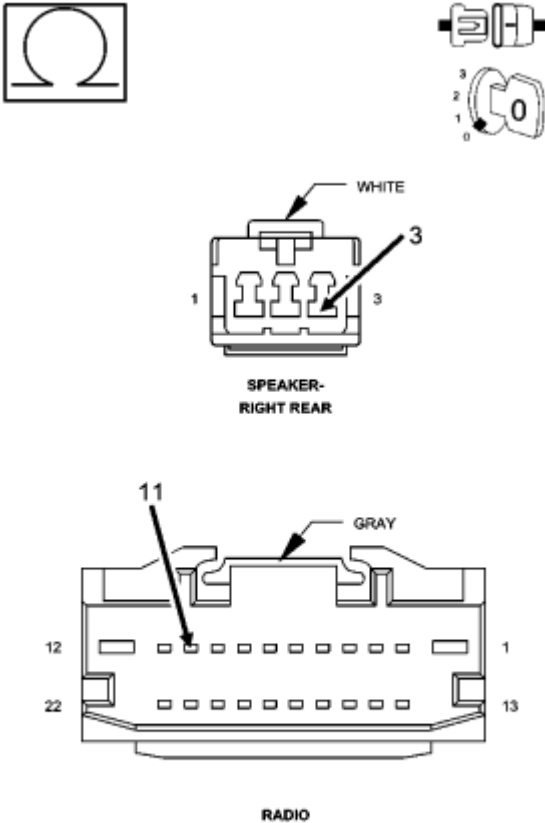
**No**



Repair the (X206) Right Rear Speaker (+) circuit for an open condition.

Perform **BODY VERIFICATION TEST - VER 1** .

**3) (X296) RIGHT REAR SPEAKER (-) CIRCUIT OPEN**



819c0bc3

**Fig. 36: Measuring Resistance Of (X296) Right Rear Speaker (-) Circuit Between Radio And Speaker**

Courtesy of CHRYSLER LLC

Measure the resistance of the (X296) Right Rear Speaker (-) circuit between the Radio and the Speaker.

**Is the resistance below 5.0 ohms for each circuit?**

**Yes**

Go to 4).

**No**

Repair the (X296) Right Rear Speaker (-) circuit for an open condition.

Perform **BODY VERIFICATION TEST - VER 1** .

**4) SPEAKER**

Connect the Radio harness connector.

With the Rear Right Audio Speaker still disconnected, turn the ignition on.

Turn the Radio on.

With the scan tool, clear all Radio DTC's.

With the scan tool, read the DTC information.

**Does the scan tool read: B140F-REAR RIGHT AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

Replace the Rear Right Audio Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Test Complete.

**B1420-AUDIO CASSETTE ERROR/INOPERABLE CASSETTE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

Continuously with the ignition on and the Radio Cassette player turned on.

**Set Condition:**

The code will set when a damaged Cassette is placed in the Cassette Player.

**Possible Causes**

**CASSETTE READ FAILURE**

**Diagnostic Test**

**1) RADIO**

Replace the problem Cassette with a good, clean, undamaged, cassette.

Turn the Radio cassette player on.

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With the scan tool, read DTC's.

### Does the scan tool display active: B1420-AUDIO CASSETTE ERROR/INOPERABLE CASSETTE?

#### Yes

Eject the inoperative cassette and replace the Radio/Cassette Player in accordance with the Service Information.

Perform **BODY VERIFICATION TEST - VER 1** .

#### No

Test Complete.

### B1421-AUDIO CD READ ERROR/INOPERABLE DISC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

#### When Monitored:

Continuously with the ignition on and the radio CD player turned on.

#### Set Condition:

The code will set if a CD that is not formatted as a music CD is installed in the radio CD player.

Possible Causes
CD READ FAILURE

#### Diagnostic Test

##### 1) RADIO

Replace the problem CD with a good, clean, unscratched, music CD.

Turn the radio CD player on.

With the scan tool, read DTC's.

### Does the can tool display: B1421 AUDIO CD READ ERROR/INOPERABLE DISC?

#### Yes

Eject the inoperative CD and replace the CD in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

#### No

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Test Complete.

### **B1422-AUDIO DVD READ ERROR/INOPERABLE DISC**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

#### **When Monitored:**

Continuously with the ignition on and the DVD player turned on.

#### **Set Condition:**

The code will set if a DVD that is not formatted as a DVD is installed in the DVD player.

Possible Causes
DVD READ FAILURE

#### **Diagnostic Test**

##### **1) DVD PLAYER**

Replace the problem DVD with a good, clean, unscratched DVD.

Turn the DVD player on.

With the scan tool, read DTC's.

**Does the scan tool display active: B1422-AUDIO DVD READ ERROR/INOPERABLE DISC?**

**Yes**

Eject the inoperative DVD and replace the DVD in accordance with the Service Information.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Test Complete.

### **B1423-VES DVD READ ERROR/INOPERABLE DISC**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

#### **When Monitored:**

Continuously with the ignition on and the DVD player turned on.

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### Set Condition:

The code will set if a DVD that is not formatted as a DVD is installed in the DVD player.

### Possible Causes

DVD READ FAILURE

### Diagnostic Test

#### 1) DVD PLAYER

Replace the problem DVD with a good, clean, unscratched DVD.

Turn the DVD player on.

With the scan tool, read DTC's.

**Does the scan tool display active: B1423-VES DVD READ ERROR/INOPERABLE DISC?**

**Yes**

Eject the inoperative DVD and replace the DVD in accordance with the Service Information.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Test Complete.

### B1424-IMPROPER DVD-WRONG REGION

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

### When Monitored:

Continuously with the ignition on and the DVD player turned on.

### Set Condition:

The code will set if a DVD that is not formatted as a DVD is installed in the DVD player.

### Possible Causes

DVD READ FAILURE

### Diagnostic Test

#### 1) DVD PLAYER

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Replace the problem DVD with a good, clean, unscratched DVD.

Turn the DVD player on.

With the scan tool, read DTC's.

**Does the scan tool display active: B1424-IMPROPER DVD-WRONG REGION?**

**Yes**

Eject the inoperative DVD and replace the DVD in accordance with the Service Information.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Test Complete.

### **B1429-RADIO DISPLAY HIGH TEMPERATURE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

#### **When Monitored:**

Continuously with the ignition and Radio on.

#### **Set Condition:**

The code will set if the temperature inside the Radio is above +65°C (+145°F)

Possible Causes
HIGH TEMPERATURE FAILURE

#### **Diagnostic Test**

##### **1) VERIFY THAT DTC B1429-RADIO DISPLAY HIGH TEMPERATURE IS ACTIVE.**

With the scan tool, clear all DTC's.

Start the engine and allow the engine to reach normal operating temperature.

If the vehicle has been in the hot sunlight or extreme cold, move the vehicle indoors and open the doors to allow the inside temperature to stabilize.

The Radio should operate between -23°C and +65°C (-10°F and +145°F).

With the scan tool, read DTC's.

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### Does the scan tool display active: B1429-RADIO DISPLAY HIGH TEMPERATURE?

**Yes**

Replace the Radio in accordance with the Service Information.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Test Complete.

### B142A-RADIO UNIT HIGH TEMPERATURE

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

#### **When Monitored:**

Continuously with the ignition and Radio on.

#### **Set Condition:**

The code will set if the temperature inside the Radio is above +65°C (+145°F)

Possible Causes
HIGH TEMPERATURE FAILURE

#### **Diagnostic Test**

#### **1) VERIFY THAT DTC B142A-RADIO UNIT HIGH TEMPERATURE IS ACTIVE.**

With the scan tool, erase the DTC's.

Start the engine and allow the engine to reach normal operating temperature.

If the vehicle has been in the hot sunlight or extreme cold, move the vehicle indoors and open the doors to allow the inside temperature to stabilize.

The Radio should operate between -23°C and +65°C (-10°F and +145°F).

With the scan tool, read DTC's.

### Does the scan tool display active: B142A-RADIO UNIT HIGH TEMPERATURE?

**Yes**

Replace the Radio in accordance with the Service Information.

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Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Test Complete.

### **B142C-VES VIDEO SCREEN DISCONNECTED**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

#### **When Monitored:**

With the ignition on and the Radio in Video mode.

#### **Set Condition:**

With the Radio in Video mode, the Radio does not detect a VES Video Screen.

#### **Possible Causes**

BAD VES VIDEO SCREEN CONNECTION  
RADIO

#### **Diagnostic Test**

##### **1) TEST VES VIDEO SCREEN CONNECTION**

Turn the ignition off.

Disconnect the VES Video Screen connector.

Inspect the VES Video Screen connection.

**Was the VES Video Screen connection clean and secure?**

**Yes**

Go to 2).

**No**

Repair the VES Video Screen connection as needed.

Perform **BODY VERIFICATION TEST - VER 1** .

##### **2) VES VIDEO SCREEN**

Refer to the Audio System in the Service Information and test the VES Video Screen in accordance with the Service Procedure



**Is the Antenna ok?**

**Yes**

Go to 3).

**No**

Repair or replace the VES Video Screen in accordance with the Service Information.

Perform **BODY VERIFICATION TEST - VER 1** .

**3) RADIO**

**NOTE: Reconnect all previously disconnected components.**

**NOTE: Move vehicle outside approximately 30ft (9.14m) from any structure.**

Turn the ignition on.

Turn the Radio on.

With the scan tool, clear all DTC's, put the Radio in mode.

With the scan tool, read DTC's.

**Does the scan tool display active: B142C-VES VIDEO SCREEN DISCONNECTED?**

**Yes**

Replace the Radio in accordance with the Service Information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Test Complete.

**B142D-AUDIO ANTENNA NOT CONNECTED**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on and the Radio in seek mode.

**Set Condition:**

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With the Radio in seek mode for two loops around the band. The Radio does not detect an Antenna connection or does not receive a Radio station signal.

### Possible Causes

BAD ANTENNA CONNECTION  
RADIO

#### Diagnostic Test

#### 1) TEST ANTENNA

Turn the ignition off.

Disconnect the Radio Antenna connector.

Inspect the Radio Antenna connection.

**Was the Antenna connection clean and secure?**

**Yes**

Go to 2).

**No**

Repair the Antenna connection as needed.

Perform **BODY VERIFICATION TEST - VER 1** .

#### 2) ANTENNA

Refer to the Audio System in the Service Information and test the antenna in accordance with the Service Procedure.

**Is the Antenna ok?**

**Yes**

Go to 3).

**No**

Repair or replace the Antenna assembly in accordance with the Service Information.

Perform **BODY VERIFICATION TEST - VER 1** .

#### 3) RADIO

**NOTE: Reconnect all previously disconnected components.**

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**NOTE: Move vehicle outside approximately 30ft (9.14m) from any structure.**

Turn the ignition on.

Turn the Radio on.

With the scan tool, clear all DTC's, put the Radio in seek up and down mode for 2 loops around the band cycle before proceeding.

With the scan tool, read DTC's.

**Does the scan tool display active: B142D-AUDIO ANTENNA NOT CONNECTED?**

**Yes**

Replace the Radio in accordance with the Service Information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Test Complete.

### **B142E-GPS ANTENNA NOT CONNECTED**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

#### **When Monitored:**

With the ignition on and the Radio in Navigation mode.

#### **Set Condition:**

With the Radio in Navigation mode. The Radio does not detect an Antenna connection or does not receive a Navigation (GPS) signal.

Possible Causes
BAD ANTENNA CONNECTION RADIO ANTENNA

#### **Diagnostic Test**

##### **1) TEST ANTENNA**

Turn the ignition off.

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Disconnect the GPS Antenna connector.

Inspect the GPS Antenna connection.

**Was the Antenna connection clean and secure?**

**Yes**

Go to 2).

**No**

Repair the Antenna connection as needed.

Perform **BODY VERIFICATION TEST - VER 1** .

### 2) ANTENNA

Refer to the Audio System in the Service Information and test the antenna in accordance with the Service Procedure.

**Is the Antenna ok?**

**Yes**

Go to 3).

**No**

Repair or replace the Antenna assembly in accordance with the Service Information.

Perform **BODY VERIFICATION TEST - VER 1** .

### 3) RADIO

**NOTE: Reconnect all previously disconnected components.**

**NOTE: Move vehicle outside approximately 30ft (9.14m) from any structure.**

Turn the ignition and Radio on.

With the scan tool, clear all DTC's and operate the Navigation system.

With the scan tool, read DTC's.

**Does the scan tool display active: B142E-GPS ANTENNA NOT CONNECTED?**

**Yes**

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Replace the Radio in accordance with the Service Information.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Test Complete.

### **B142F-SATELLITE RADIO ANTENNA NOT CONNECTED**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

#### **When Monitored:**

With the ignition on and the Satellite Radio in seek mode.

#### **Set Condition:**

With the radio in seek mode for two loops around the band. The radio does not detect an antenna connection or does not receive a radio satellite signal.

Possible Causes
BAD ANTENNA CONNECTION SATELLITE RADIO RECEIVER

#### **Diagnostic Test**

##### **1) TEST ANTENNA**

Turn the ignition off.

Disconnect the Satellite Radio Antenna connector.

Inspect the Satellite Radio Antenna connection.

**Was the Antenna connection clean and secure?**

**Yes**

Go to 2).

**No**

Repair the Antenna connection as needed.

Perform **BODY VERIFICATION TEST - VER 1** .

##### **2) SATELLITE RADIO ANTENNA**

Refer to the **AUDIO/VIDEO-SERVICE INFORMATION** and test the antenna in accordance with the service procedure.

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### Is the Antenna ok?

**Yes**

Go to 3).

**No**

Repair or replace the Antenna assembly as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

### 3) SATELLITE RADIO RECEIVER

**NOTE:** Reconnect all previously disconnected components.

**NOTE:** Move vehicle outside approximately 30ft (9.144m) from any structure.

Turn the ignition and radio on.

With the scan tool, erase the audio DTC's, put the satellite radio in seek up and down mode for 2 loops around the band cycle before proceeding.

With the scan tool, read the audio DTC's.

### Did this DTC reset?

**Yes**

Replace the Satellite Radio Receiver in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Test Complete.

### B1430-SATELLITE RADIO ANTENNA INTERNAL PERFORMANCE

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

#### When Monitored:

With the ignition on.

#### Set Condition:

The Satellite Radio Antenna detects a software checksum test failure.

### Possible Causes

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### SATELLITE RADIO ANTENNA

#### Diagnostic Test

#### 1) REPLACE THE SATELLITE RADIO ANTENNA

When this code is set, the Satellite Radio Antenna must be replaced.

#### Repair

Replace the Satellite Radio Antenna in accordance with the Service Information. Refer to **STANDARD PROCEDURE** .

### B1460-CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

#### When Monitored:

With the ignition on.

#### Set Condition:

This DTC will set if a DC offset occurs on the output channel, the amplifier shall set a DTC after a maturity rate of  $5 \pm 1$  sec.

### Possible Causes

AMPLIFIER

#### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

#### Does the scan tool display active: B1460-CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE?

#### Yes

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

#### No

The conditions that caused this code to set are not present at this time. Using the wiring

diagram/schematic as a guide, inspect the wiring and connectors.

Perform **BODY VERIFICATION TEST - VER 1**.

**B1461-CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT LOW**

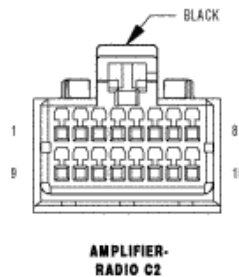
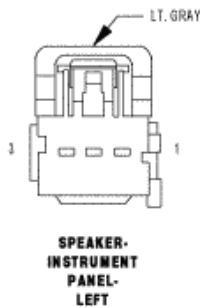
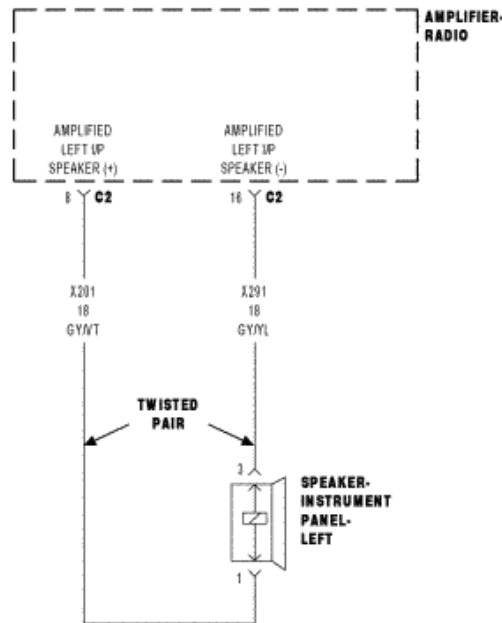


Fig. 37: Channel 1 Audio Speaker Output Circuit Schematic



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Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to [SYSTEM WIRING DIAGRAMS](#) article.

**When Monitored:**

With the ignition on.

**Set Condition:**

The amplifier detects a shorted to ground condition on the speaker output circuit.

Possible Causes
(X201) AMPLIFIED LEFT FRONT I/P SPEAKER (+) CIRCUIT SHORTED TO GROUND (X291) AMPLIFIED LEFT FRONT I/P SPEAKER (-) CIRCUIT SHORTED TO GROUND LEFT FRONT I/P SPEAKER AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1461-CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

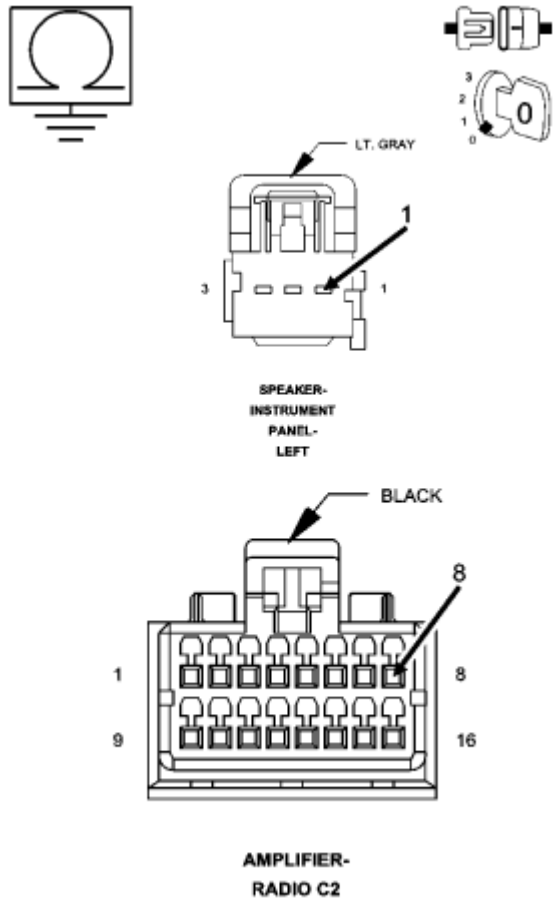
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE (X201) AMPLIFIED LEFT FRONT I/P SPEAKER (+) CIRCUIT FOR A SHORT TO GROUND**



819c0f14

**Fig. 38: Measuring Resistance Between Ground And (X201) Amplified Left Front I/P Speaker (+) Circuit**

Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Disconnect the Left I/P Speaker harness connector.

Measure the resistance between ground and the (X201) Amplified Left Front I/P Speaker (+) circuit.

**Is the resistance below 10K ohms?**

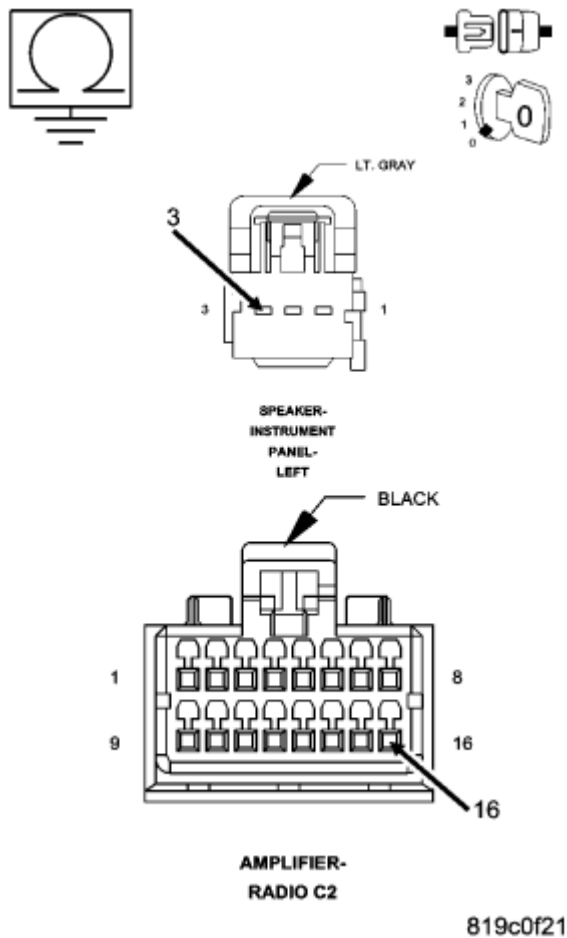
**Yes**

Repair the (X201) Amplified Left Front I/P Speaker (+) circuit for a short to ground.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X291) AMPLIFIED LEFT FRONT I/P SPEAKER (-) CIRCUIT FOR A SHORT TO GROUND**



819c0f21

**Fig. 39: Measuring Resistance Between Ground And (X291) Amplified Left Front I/P Speaker (-) Circuit**

Courtesy of CHRYSLER LLC

Measure the resistance between ground and the (X291) Amplified Left Front I/P Speaker (-) circuit.

**Is the resistance below 10K ohms?**

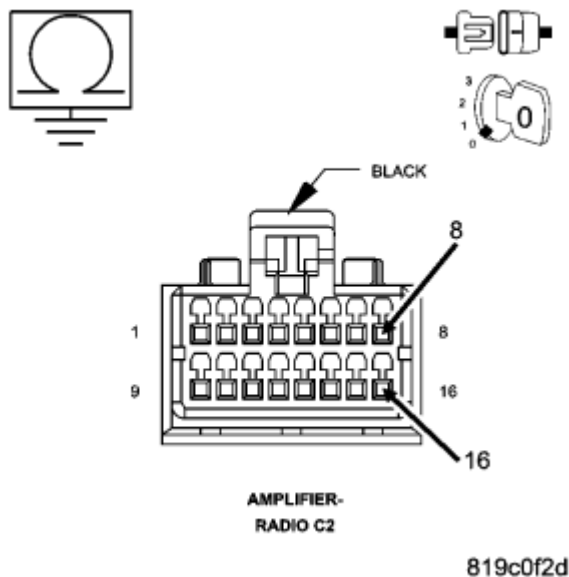
**Yes**

Repair the (X291) Amplified Left Front I/P Speaker (-) for a short to ground.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 4).

#### 4) CHECK OPERATION OF THE AMPLIFIED LEFT FRONT I/P SPEAKER



**Fig. 40: Measuring Resistance Of Speaker Circuit Between Amplifier C2 Harness Connector And Ground**

Courtesy of CHRYSLER LLC

Reconnect and reinstall the Left Front I/P Speaker.

Measure the resistance of the speaker circuit between the Amplifier C2 harness connector and ground.

**Is the resistance below 10K ohms?**

**Yes**

Replace the Left Front I/P Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

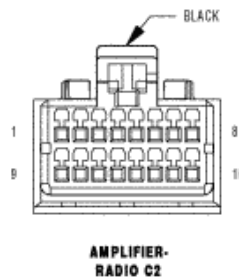
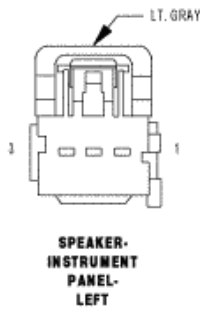
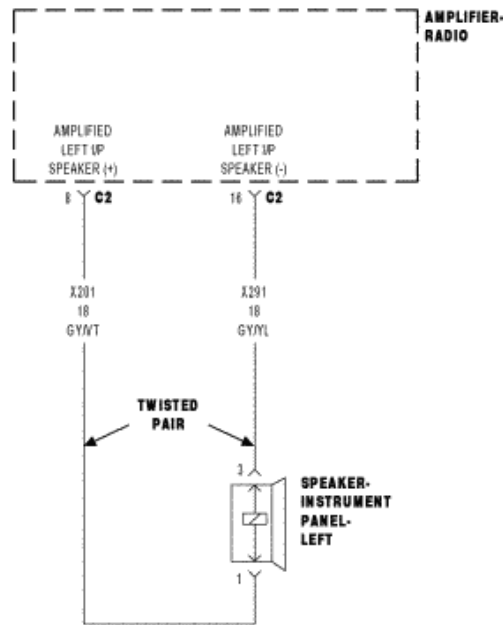
Replace the Amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B1462-CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT HIGH**

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**Fig. 41: Channel 1 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

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With the ignition on.

### Set Condition:

The amplifier detects a short to battery condition on the output circuit.

### Possible Causes

(X201) AMPLIFIED LEFT I/P SPEAKER (+) CIRCUIT SHORT TO VOLTAGE  
(X291) AMPLIFIED LEFT I/P SPEAKER (-) CIRCUIT SHORT TO VOLTAGE  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1462-CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT HIGH?**

**Yes**

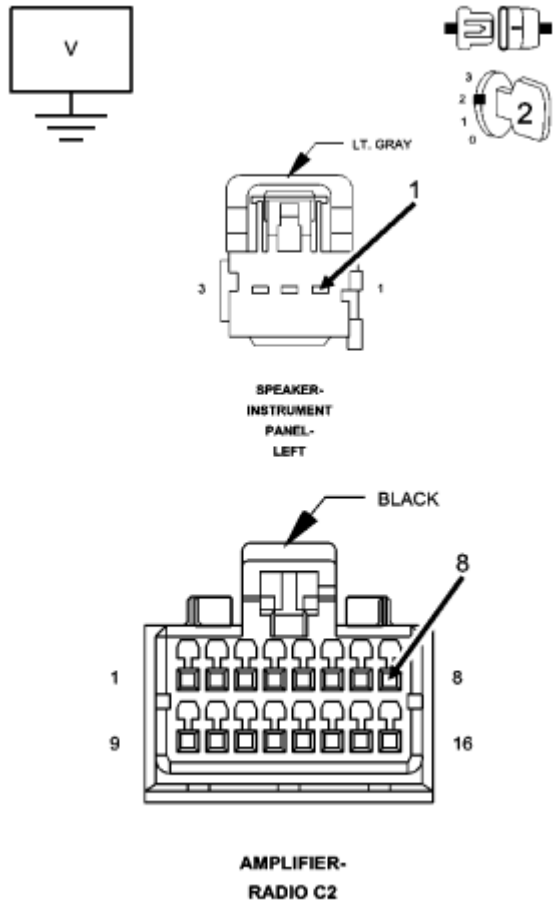
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

#### 2) CHECK FOR VOLTAGE ON THE (X201) AMPLIFIED LEFT I/P SPEAKER (+) CIRCUIT



819c10c4

**Fig. 42: Measuring For Voltage On (X201) Amplified Left I/P Speaker (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Disconnect the Amplified Left I/P Speaker harness connector.

Turn the ignition on.

Measure for voltage on the (X201) Amplified Left I/P Speaker (+) circuit.

**Is the voltage above 10.0 volts?**

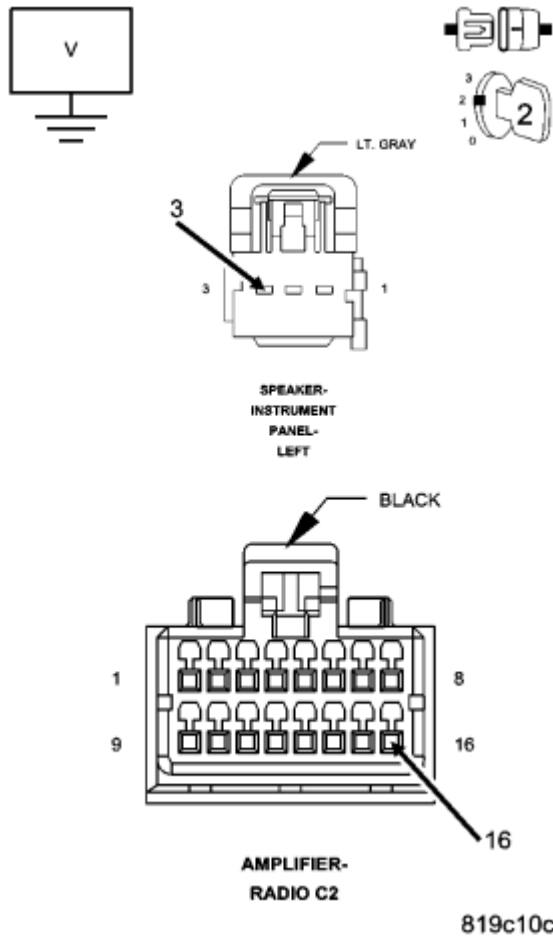
**Yes**

Repair the (X201) Amplified Left I/P Speaker (+) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

Go to 3).

**3) CHECK FOR VOLTAGE ON THE (X291) AMPLIFIED LEFT I/P SPEAKER (-) CIRCUIT**



**Fig. 43: Measuring For Voltage On (X291) Amplified Left I/P Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure for voltage on the (X291) Amplified Left I/P Speaker (-) circuit.

**Is the voltage above 10.0 volts?**

Yes

Repair the (X291) Amplified Left I/P Speaker (-) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No



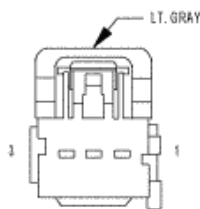
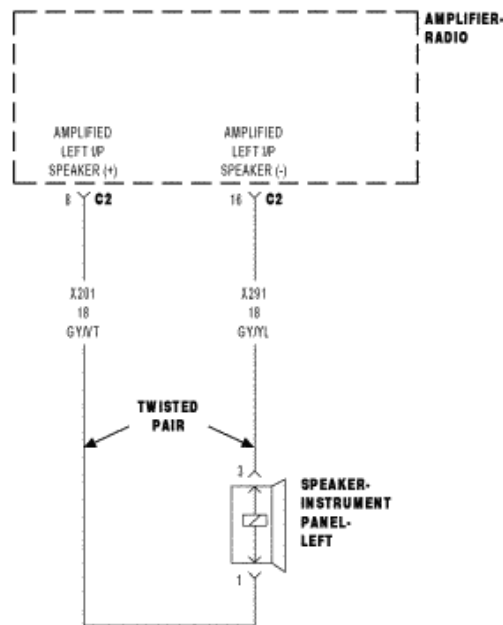
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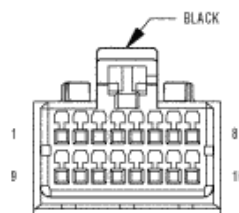
Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1**.

## B1463-CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT OPEN



SPEAKER-INSTRUMENT PANEL-LEFT



AMPLIFIER-RADIO C2

**Fig. 44: Channel 1 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

Amplifier BUS wake-up. Amplifier reset with scan tool.

**Set Condition:**

The amplifier detects an open condition on the speaker output circuit.

Possible Causes
(X201) AMPLIFIED LEFT I/P SPEAKER (+) CIRCUIT OPEN
(X291) AMPLIFIED LEFT I/P SPEAKER (-) CIRCUIT OPEN
LEFT FRONT I/P SPEAKER
AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on.

Turn the radio on.

With the scan tool, erase Amplifier DTCs.

With the scan tool, reset the amplifier.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1463-CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

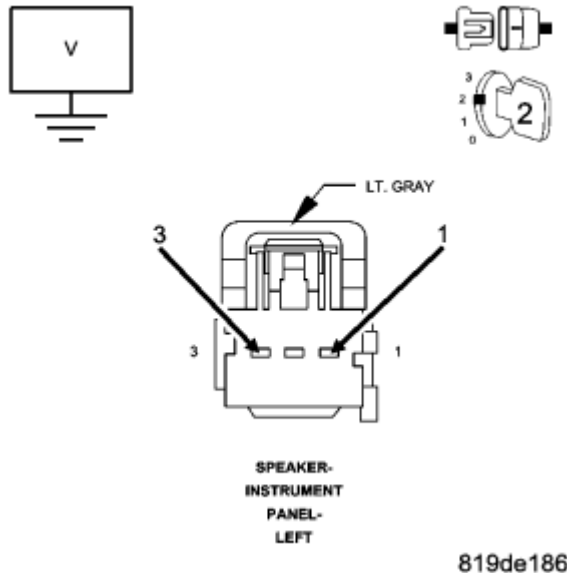
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE LEFT FRONT I/P SPEAKER**



**Fig. 45: Measuring Voltage Of Amplified Left I/P Speaker Circuits In Amplified Left I/P Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Left I/P Speaker harness connector.

Turn the ignition on.

Turn the radio on and turn the volume to mid level.

With a voltmeter set to read in A/C voltage, measure the voltage of the Amplified Left I/P Speaker circuits in the Amplified Left I/P Speaker harness connector.

**Is the voltage present greater than 1 volt?**

**Yes**

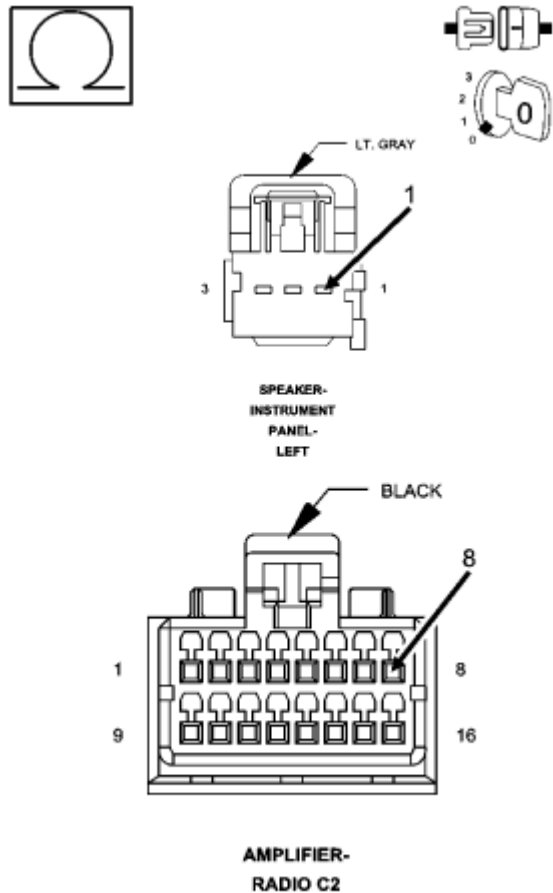
Replace the Amplified Left I/P Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X201) AMPLIFIED LEFT I/P SPEAKER (+) CIRCUIT FOR AN OPEN**



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**Fig. 46: Measuring Resistance Of (X201) Amplified Left I/P Speaker (+) Circuit Between Amplifier C2 Harness Connector And Amplified Left I/P Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Measure the resistance of the (X201) Amplified Left I/P Speaker (+) circuit between the Amplifier C2 harness connector and the Amplified Left I/P Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

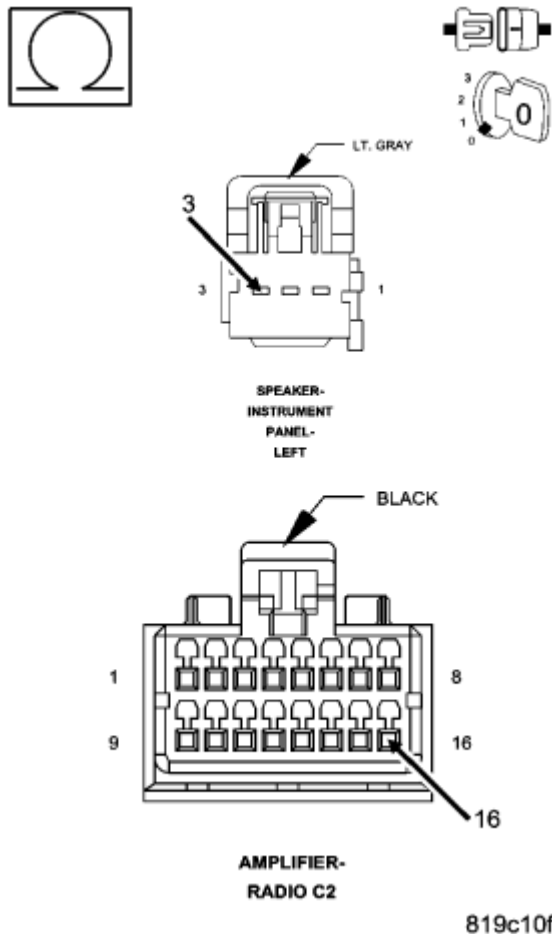
Go to 4).

**No**

Repair the (X201) Amplified Left I/P Speaker (+) circuit for an open.

Perform **BODY VERIFICATION TEST - VER 1** .

4) CHECK THE (X291) AMPLIFIED LEFT I/P SPEAKER (-) CIRCUIT FOR AN OPEN



**Fig. 47: Measuring Resistance Of (X291) Amplified Left I/P Speaker (-) Circuit Between Amplifier C2 Harness Connector And Amplified Left I/P Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Measure the resistance of the (X291) amplified Left I/P Speaker (-) circuit between the Amplifier C2 harness connector and the Amplified Left I/P Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

Replace the Amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

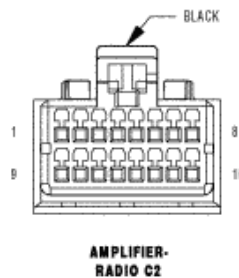
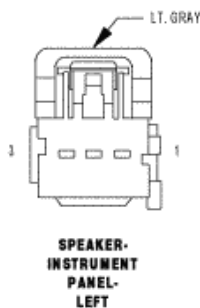
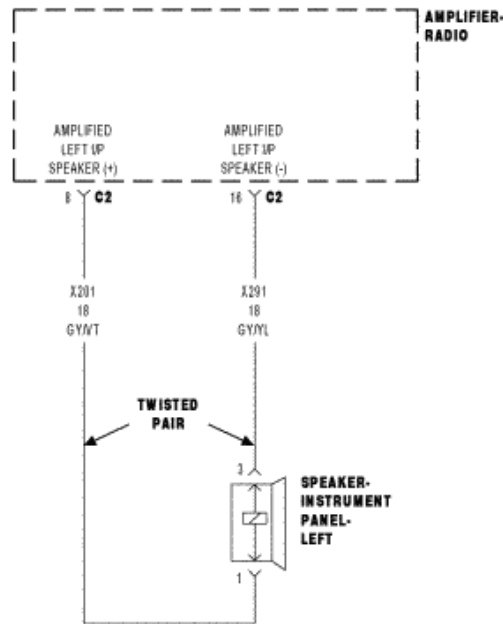
**No**

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Repair the (X291) Amplified Left I/P Speaker (-) circuit for an open.  
Perform **BODY VERIFICATION TEST - VER 1** .

## B1464-CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER



**Fig. 48: Channel 1 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on. Radio volume at 25 or higher.

**Set Condition:**

The amplifier detects that the output circuits are shorted together.

Possible Causes
(X201) AMPLIFIED LEFT I/P SPEAKER (+) CIRCUIT SHORTED TO THE (X291) AMPLIFIED LEFT I/P SPEAKER (-) CIRCUIT
AMPLIFIED LEFT I/P SPEAKER
AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, erase Amplifier DTCs.

Turn the radio on.

Turn the volume level to 25.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1464-CHANNEL 1 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER?**

**Yes**

Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE AMPLIFIED LEFT I/P SPEAKER**

Turn the ignition off.

Disconnect the Amplified Left I/P Speaker.

Measure the resistance of the speaker between the two terminals.

**Is the resistance of the speaker less than 1 ohm?**

**Yes**

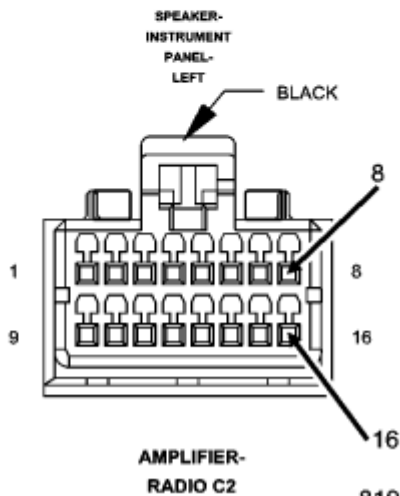
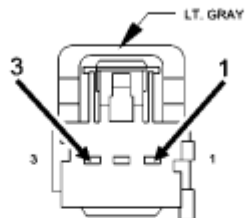
Replace the Amplified Left I/P Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X201) AMPLIFIED LEFT I/P SPEAKER (+) CIRCUIT, AND THE (X291) AMPLIFIED LEFT I/P SPEAKER (-) CIRCUITS FOR A SHORT TOGETHER**





**Fig. 49: Measuring Resistance Between (X201) Amplified Left I/P Speaker (+) Circuit And (X291) Amplified Left I/P Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Disconnect the Amplifier C2 harness connector.

Measure the resistance between the (X201) Amplified Left I/P Speaker (+) circuit, and the (X291) Amplified Left I/P Speaker (-) circuit.

**Is the resistance below 10K ohms?**

**Yes**

Repair the (X201) Amplified Left I/P Speaker (+) circuit, and the (X291) Amplified Left I/P Speaker (-) circuit for a short together.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B1465-CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on.

**Set Condition:**

This DTC will set if a DC offset occurs on the output channel, the amplifier shall set a DTC after a maturity rate of  $5 \pm 1$  sec.

Possible Causes
AMPLIFIER

AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, read amplifier DTCs.

**Does the scan tool display active: B1465-CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE?**

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**Yes**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

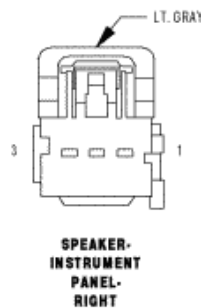
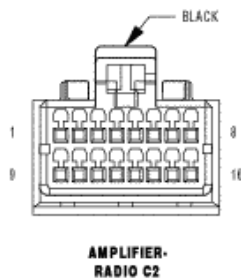
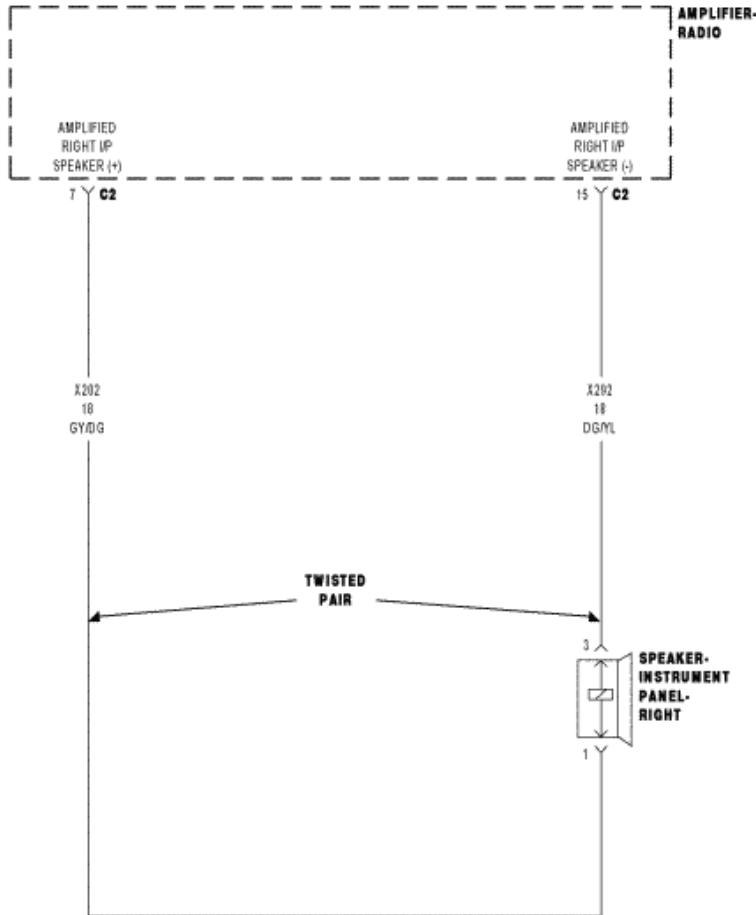
The conditions that caused this code to set are not present at this time. Using the wiring diagram/schematic as a guide, inspect the wiring and connectors.

Perform **BODY VERIFICATION TEST - VER 1** .

**B1466-CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT LOW**

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**Fig. 50: Channel 2 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

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With the ignition on.

### Set Condition:

The amplifier detects a shorted to ground condition on the speaker output circuit.

### Possible Causes

(X202) AMPLIFIED RIGHT FRONT I/P SPEAKER (+) CIRCUIT SHORTED TO GROUND  
(X292) AMPLIFIED RIGHT FRONT I/P SPEAKER (-) CIRCUIT SHORTED TO GROUND  
RIGHT FRONT I/P SPEAKER  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1466-CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

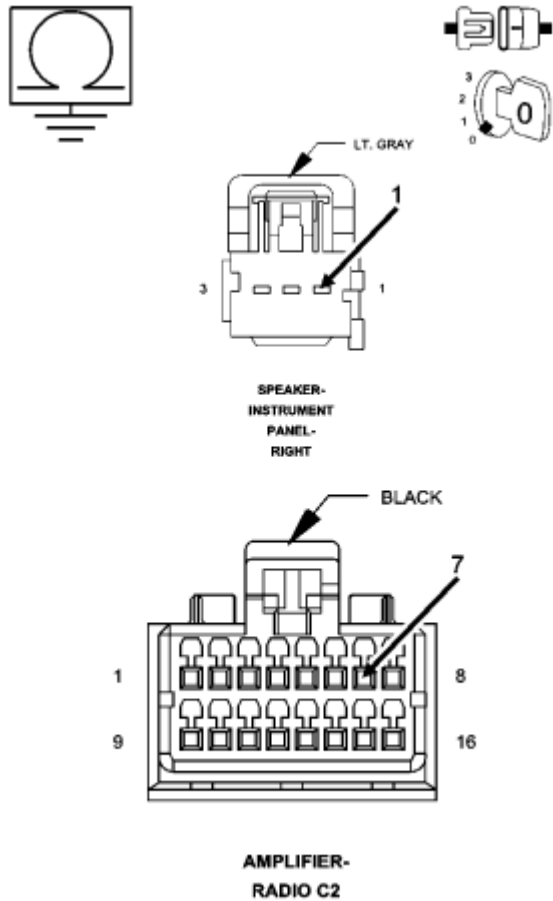
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE (X202) AMPLIFIED RIGHT FRONT I/P SPEAKER (+) CIRCUIT FOR A SHORT TO GROUND**



819c142f

**Fig. 51: Measuring Resistance Between Ground And (X202) Amplified Right Front I/P Speaker (+) Circuit**

Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Disconnect the Right Front I/P Speaker harness connector.

Measure the resistance between ground and the (X202) Amplified Right Front I/P Speaker (+) circuit.

**Is the resistance below 10K ohms?**

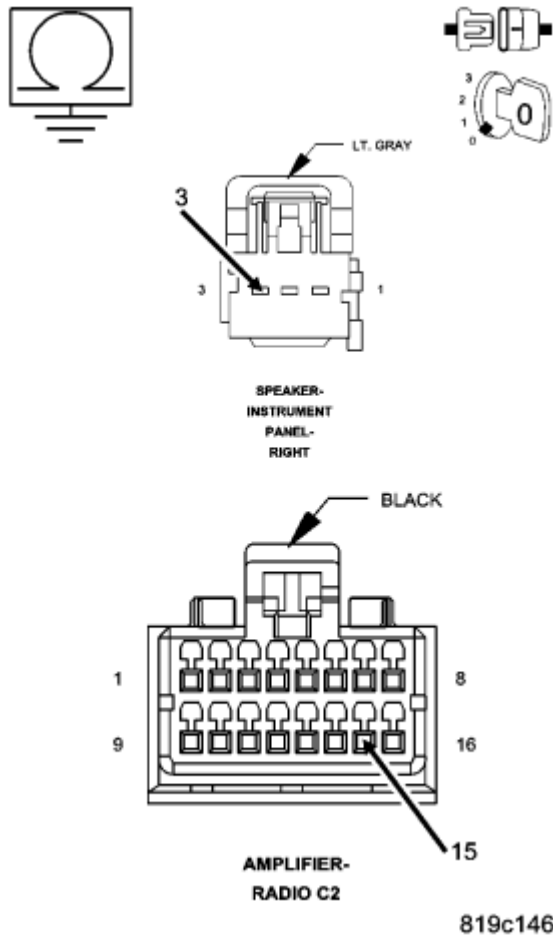
**Yes**

Repair the (X202) Amplified Right Front I/P Speaker (+) circuit for a short to ground.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X292) AMPLIFIED RIGHT FRONT I/P SPEAKER (-) CIRCUIT FOR A SHORT TO GROUND**



**Fig. 52: Measuring Resistance Between Ground And (X292) Amplified Right Front I/P Speaker (-) Circuit**

Courtesy of CHRYSLER LLC

Measure the resistance between ground and the (X292) Amplified Right Front I/P Speaker (-) circuit.

**Is the resistance below 10K ohms?**

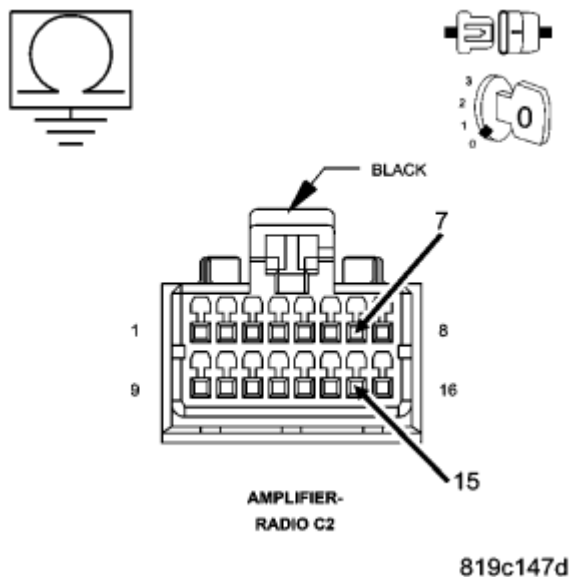
**Yes**

Repair the (X292) Amplified Right Front I/P Speaker (-) for a short to ground.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 4).

#### 4) CHECK OPERATION OF THE AMPLIFIED RIGHT FRONT I/P SPEAKER



**Fig. 53: Measuring Resistance Of Speaker Circuit Between Amplifier C2 Harness Connector And Ground**

Courtesy of CHRYSLER LLC

Reconnect and reinstall the Right Front I/P Speaker.

Measure the resistance of the speaker circuit between the Amplifier C2 harness connector and ground.

**Is the resistance below 10K ohms?**

**Yes**

Replace the Right Front I/P Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

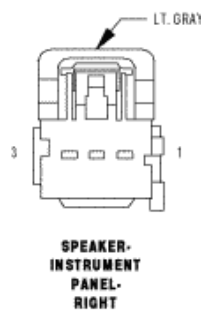
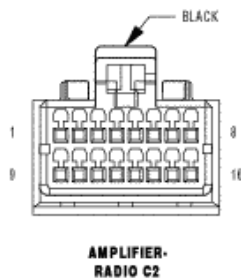
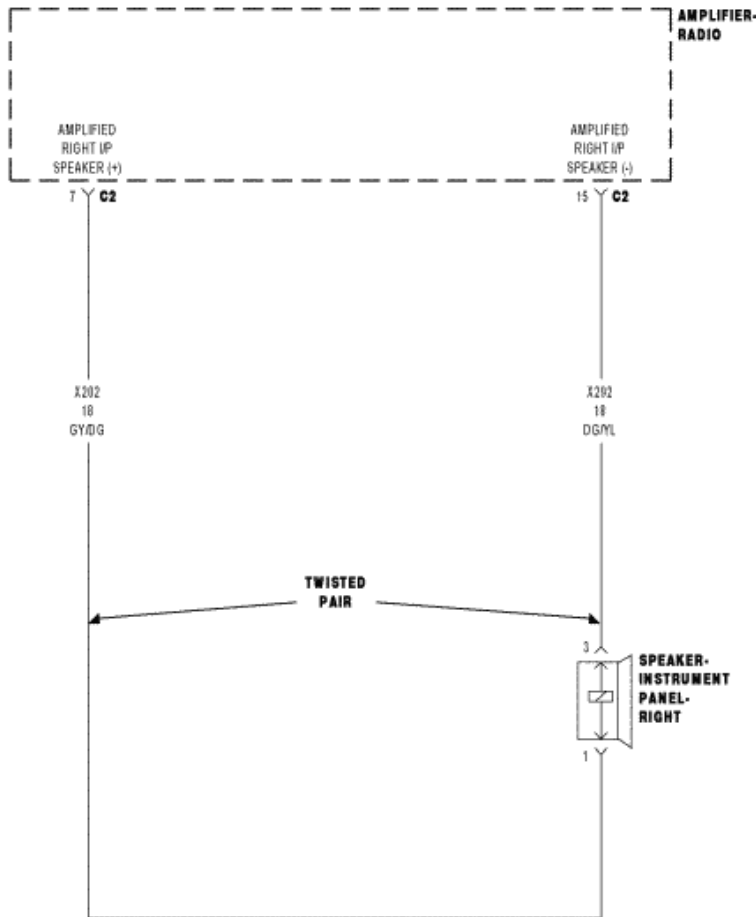
Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B1467-CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT HIGH**

# 2007 Dodge Nitro R/T

## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



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**Fig. 54: Channel 2 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**



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With the ignition on.

### **Set Condition:**

The amplifier detects a short to battery condition on the output circuit.

### **Possible Causes**

(X202) AMPLIFIED RIGHT I/P SPEAKER (+) CIRCUIT SHORT TO VOLTAGE  
(X292) AMPLIFIED RIGHT I/P SPEAKER (-) CIRCUIT SHORT TO VOLTAGE  
AMPLIFIER

### **Diagnostic Test**

#### **1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1467-CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT HIGH?**

**Yes**

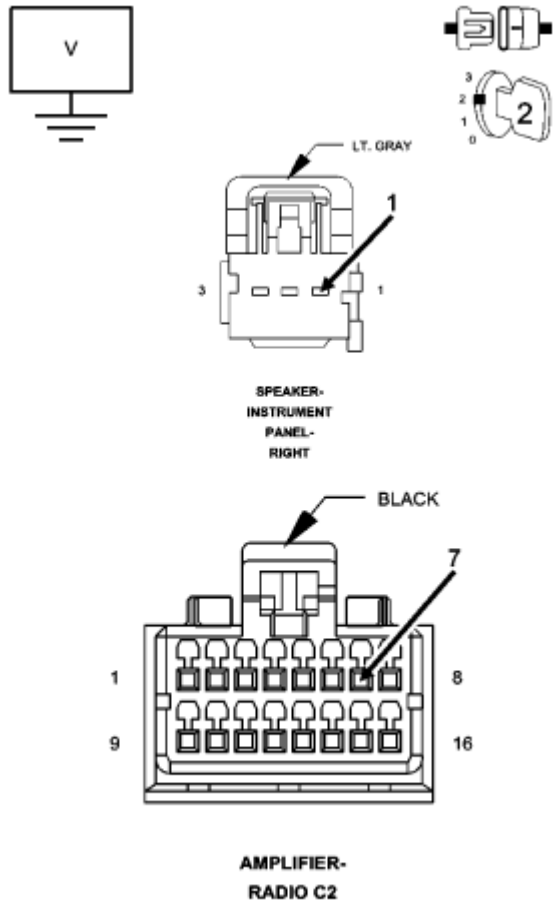
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

#### **2) CHECK FOR VOLTAGE ON THE (X202) AMPLIFIED RIGHT I/P SPEAKER (+) CIRCUIT**



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**Fig. 55: Measuring For Voltage On (X202) Amplified Right I/P Speaker (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Disconnect the Amplified Right I/P Speaker harness connector.

Turn the ignition on.

Measure for voltage on the (X202) Amplified Right I/P Speaker (+) circuit.

**Is the voltage above 10.0 volts?**

**Yes**

Repair the (X202) Amplified Right I/P Speaker (+) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

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**No**

Go to 3).

**3) CHECK FOR VOLTAGE ON THE (X292) AMPLIFIED RIGHT I/P SPEAKER (-) CIRCUIT**

Measure for voltage on the (X292) Amplified Right I/P Speaker (-) circuit.

**Is the voltage above 10.0 volts?**

**Yes**

Repair the (X292) Amplified Right I/P Speaker (-) circuit for a short to voltage.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

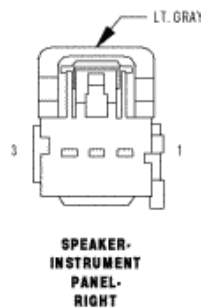
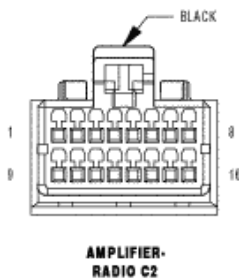
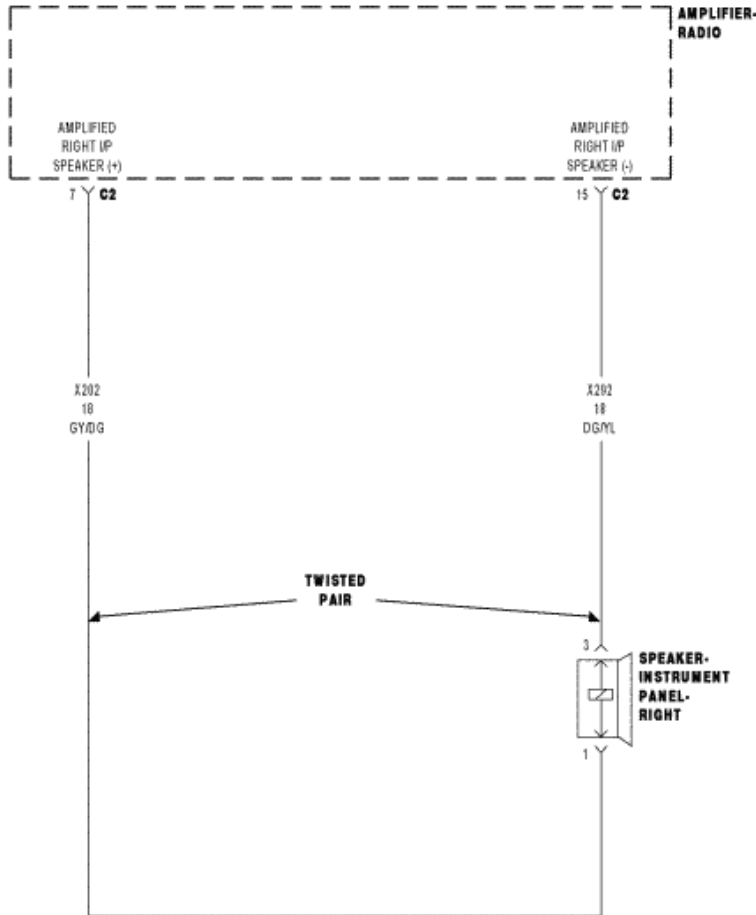
Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B1468-CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT OPEN**

# 2007 Dodge Nitro R/T

## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



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**Fig. 56: Channel 2 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

## 2007 Dodge Nitro R/T

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Amplifier BUS wake-up. Amplifier reset with scan tool.

### Set Condition:

The amplifier detects an open condition on the speaker output circuit.

### Possible Causes

(X202) AMPLIFIED RIGHT I/P SPEAKER (+) CIRCUIT OPEN  
(X292) AMPLIFIED RIGHT I/P SPEAKER (-) CIRCUIT OPEN  
RIGHT I/P SPEAKER  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on.

Turn the radio on.

With the scan tool, erase Amplifier DTCs.

With the scan tool, reset the amplifier.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1468-CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

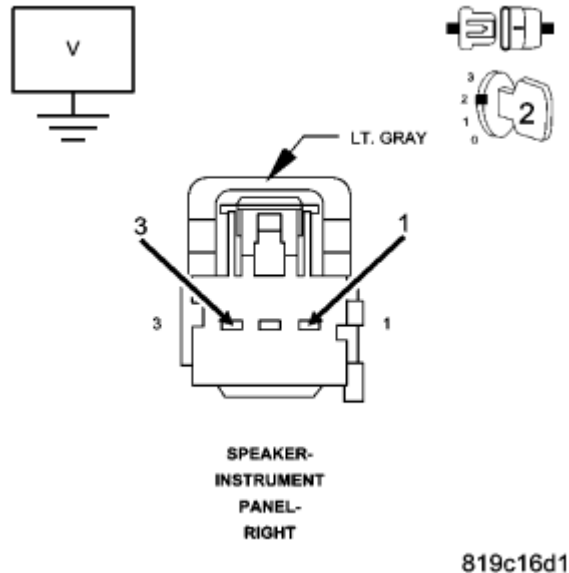
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

#### 2) CHECK THE OPERATION OF THE RIGHT FRONT I/P SPEAKER



**Fig. 57: Measuring Voltage Of Amplified Right I/P Speaker Circuits In Amplified Right I/P Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Right I/P Speaker harness connector.

Turn the ignition on.

Turn the radio on and turn the volume to mid level.

With a voltmeter set to read in A/C voltage, measure the voltage of the Amplified Right I/P Speaker circuits in the Amplified Right I/P Speaker harness connector.

**Is the voltage present greater than 1 volt?**

**Yes**

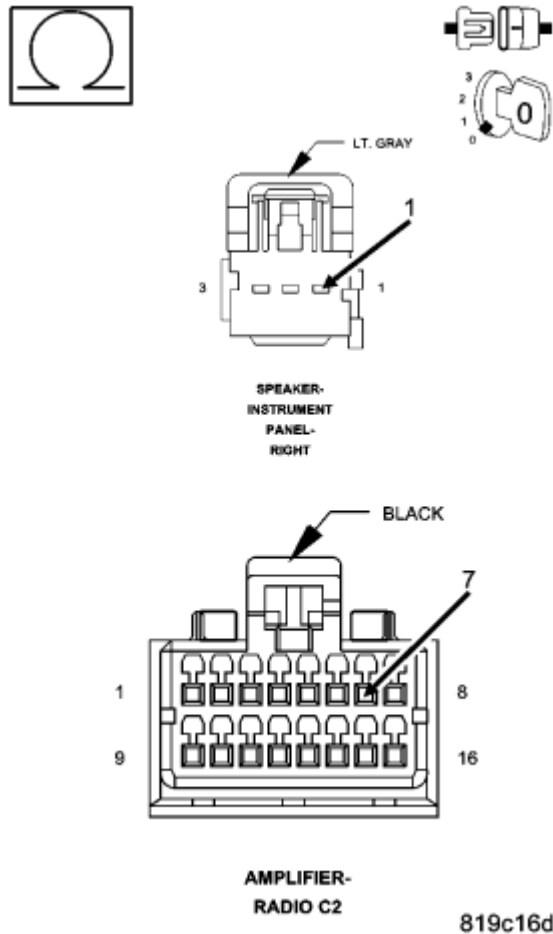
Replace the Amplified Right I/P Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X202) AMPLIFIED RIGHT I/P SPEAKER (+) CIRCUIT FOR AN OPEN**



**Fig. 58: Measuring Resistance Of (X202) Amplified Right I/P Speaker (+) Circuit Between Amplifier C2 Harness Connector And Amplified Right I/P Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Measure the resistance of the (X202) Amplified Right I/P Speaker (+) circuit between the Amplifier C2 harness connector and the Amplified Right I/P Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

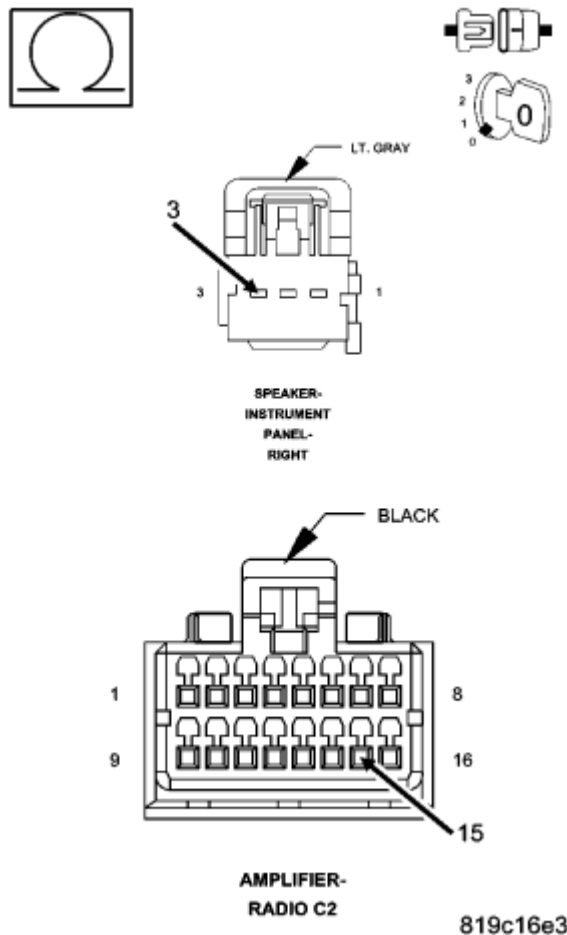
Go to 4).

**No**

Repair the (X202) Amplified Right I/P Speaker (+) circuit for an open.

Perform **BODY VERIFICATION TEST - VER 1** .

4) CHECK THE (X292) AMPLIFIED RIGHT I/P SPEAKER (-) CIRCUIT FOR AN OPEN



**Fig. 59: Measuring Resistance Of (X292) Amplified Right I/P Speaker (-) Circuit Between Amplifier C2 Harness Connector And Amplified Right I/P Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Measure the resistance of the (X292) Amplified Right I/P Speaker (-) circuit between the Amplifier C2 harness connector and the Amplified Right I/P Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

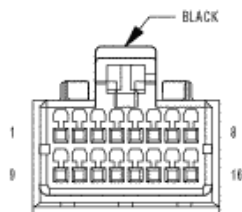
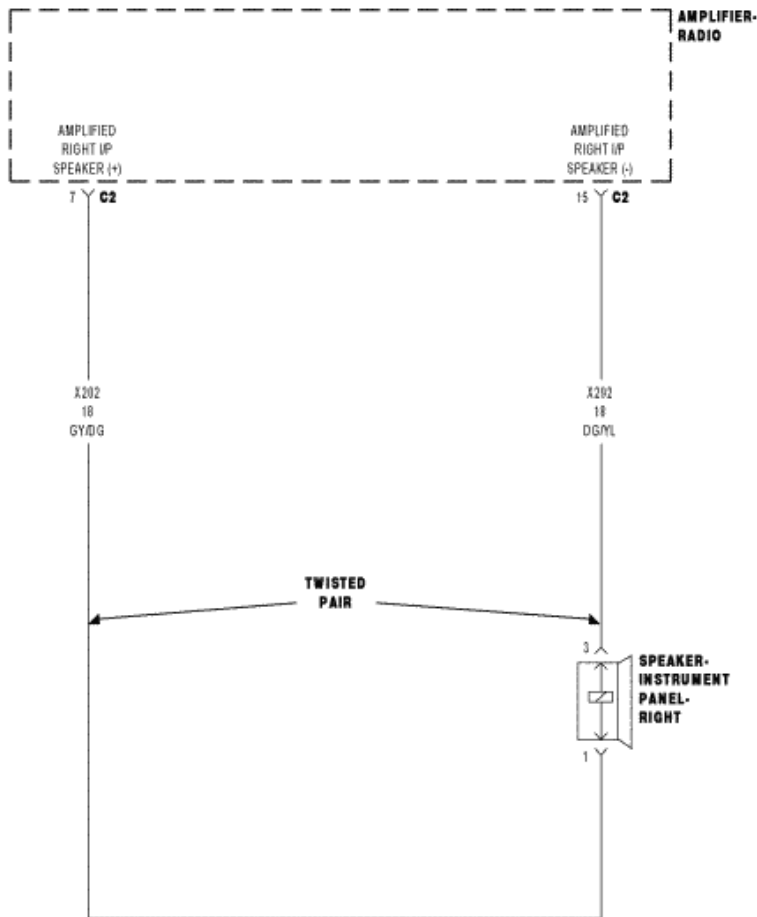


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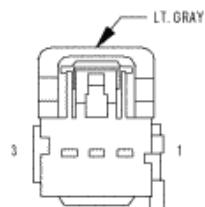
## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

Repair the (X292) Amplified Right I/P Speaker (-) circuit for an open.  
Perform **BODY VERIFICATION TEST - VER 1** .

### B1469-CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER



AMPLIFIER-RADIO C2



SPEAKER-INSTRUMENT PANEL-RIGHT

**Fig. 60: Channel 2 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on. Radio volume at 25 or higher.

**Set Condition:**

The amplifier detects that the output circuits are shorted together.

Possible Causes
(X202) AMPLIFIED RIGHT I/P SPEAKER (+) CIRCUIT SHORTED TO THE (X292) AMPLIFIED RIGHT I/P SPEAKER (-) CIRCUIT AMPLIFIED RIGHT I/P SPEAKER AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, erase Amplifier DTCs.

Turn the radio on.

Turn the volume level to 25.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1469-CHANNEL 2 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER?**

**Yes**

Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE AMPLIFIED RIGHT I/P SPEAKER**

Turn the ignition off.

Disconnect the Amplified Right I/P Speaker.

Measure the resistance of the speaker between the two terminals.

**Is the resistance of the speaker less than 1 ohm?**

**Yes**

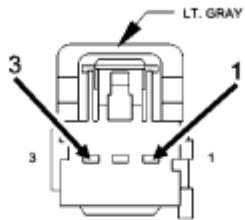
Replace the Amplified Right I/P Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

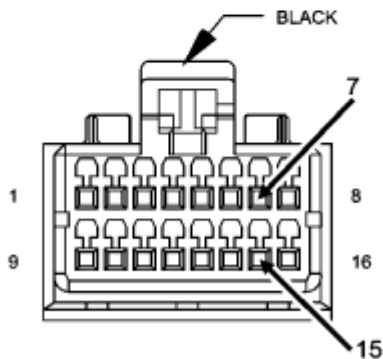
**No**

Go to 3).

**3) CHECK THE (X202) AMPLIFIED RIGHT I/P SPEAKER (+) CIRCUIT, AND THE (X292) AMPLIFIED RIGHT I/P SPEAKER (-) CIRCUITS FOR A SHORT TOGETHER**



**SPEAKER-  
INSTRUMENT  
PANEL-  
RIGHT**



**AMPLIFIER-  
RADIO C2**

**Fig. 61: Measuring Resistance Between (X202) Amplified Right I/P Speaker (+) Circuit And (X292) Amplified Right I/P Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Disconnect the Amplifier C2 harness connector.

Measure the resistance between the (X202) Amplified Right I/P Speaker (+) circuit, and the (X292) Amplified Right I/P Speaker (-) circuit.

**Is the resistance below 10K ohms?**

**Yes**

Repair the (X202) Amplified Right I/P Speaker (+) circuit, and the (X292) Amplified Right I/P Speaker (-) circuit for a short together.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B146A-CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on.

**Set Condition:**

This DTC will set if a DC offset occurs on the output channel, the amplifier shall set a DTC after a maturity rate of  $5 \pm 1$  sec.

Possible Causes
AMPLIFIER

AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B146A-CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE?**

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### Yes

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

### No

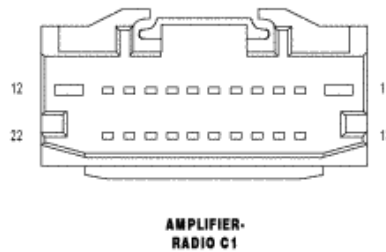
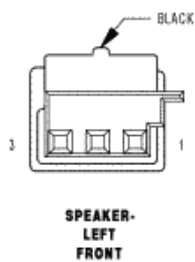
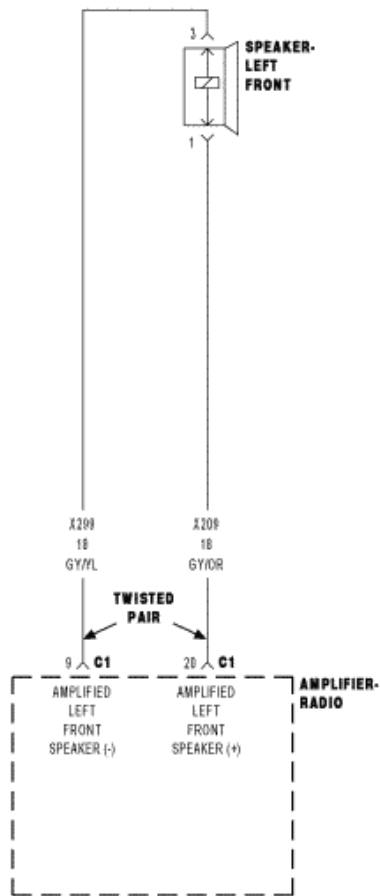
The conditions that caused this code to set are not present at this time. Using the wiring diagram/schematic as a guide, inspect the wiring and connectors.

Perform **BODY VERIFICATION TEST - VER 1** .

**B146B-CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT LOW**

# 2007 Dodge Nitro R/T

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818c18a1

**Fig. 62: Channel 3 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

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With the ignition on.

### Set Condition:

The amplifier detects a shorted to ground condition on the speaker output circuit.

### Possible Causes

(X209) AMPLIFIED LEFT FRONT SPEAKER (+) CIRCUIT SHORTED TO GROUND  
(X299) AMPLIFIED LEFT FRONT SPEAKER (-) CIRCUIT SHORTED TO GROUND  
LEFT FRONT SPEAKER  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B146B-CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

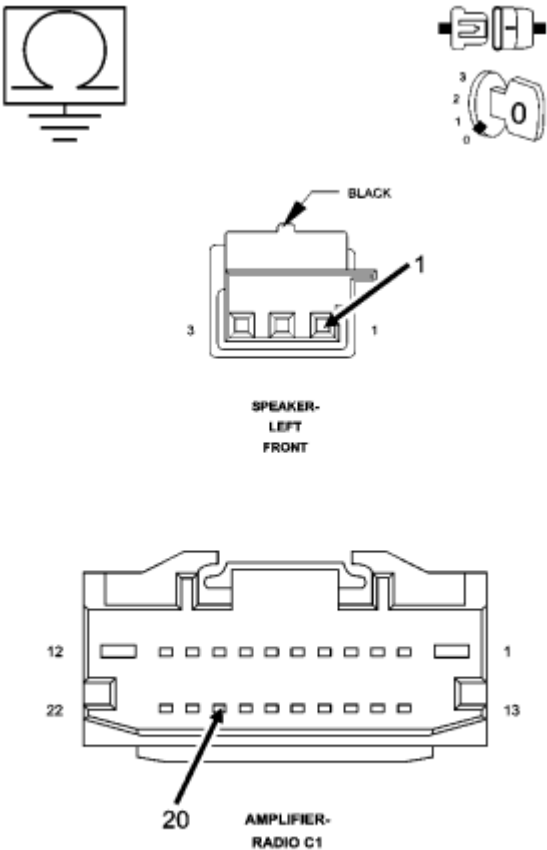
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE (X209) AMPLIFIED LEFT FRONT SPEAKER (+) CIRCUIT FOR A SHORT TO GROUND**



819c1937

**Fig. 63: Measuring Resistance Between Ground And (X209) Amplified Left Front Speaker (+) Circuit**

Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C1 harness connector.

Disconnect the Left Front Speaker harness connector.

Measure the resistance between ground and the (X209) Amplified Left Front Speaker (+) circuit.

**Is the resistance below 10K ohms?**

**Yes**

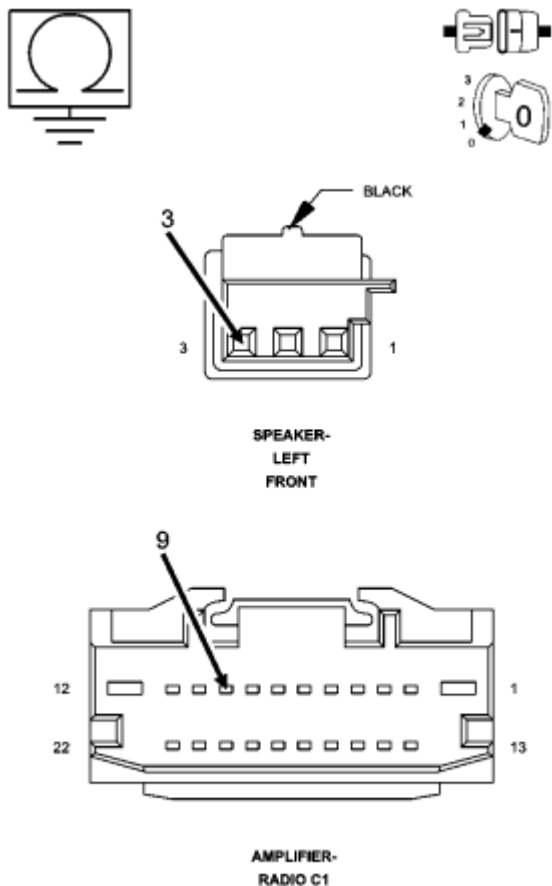
Repair the (X209) Amplified Left Front Speaker (+) circuit for a short to ground.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**



Go to 3).

**3) CHECK THE (X299) AMPLIFIED LEFT FRONT SPEAKER (-) CIRCUIT FOR A SHORT TO GROUND**



819c1977

**Fig. 64: Measuring Resistance Between Ground And (X299) Amplified Left Front Speaker (-) Circuit**

Courtesy of CHRYSLER LLC

Measure the resistance between ground and the (X299) Amplified Left Front Speaker (-) circuit.

**Is the resistance below 10K ohms?**

**Yes**

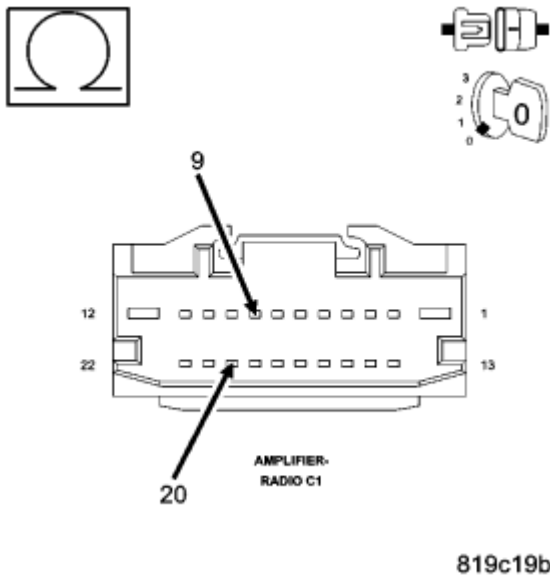
Repair the (X299) Amplified Left Front Speaker (-) for a short to ground.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 4).

#### 4) CHECK OPERATION OF THE AMPLIFIED LEFT FRONT SPEAKER



**Fig. 65: Measuring Resistance Of Speaker Circuit Between Amplifier C1 Harness Connector And Ground**

Courtesy of CHRYSLER LLC

Reconnect and reinstall the Left Front Speaker.

Measure the resistance of the speaker circuit between the Amplifier C1 harness connector and ground.

**Is the resistance below 10K ohms?**

**Yes**

Replace the Left Front Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

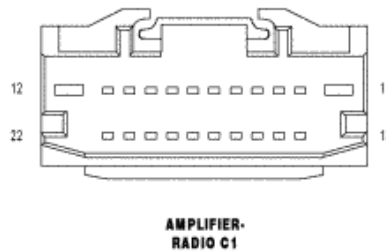
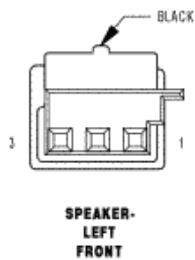
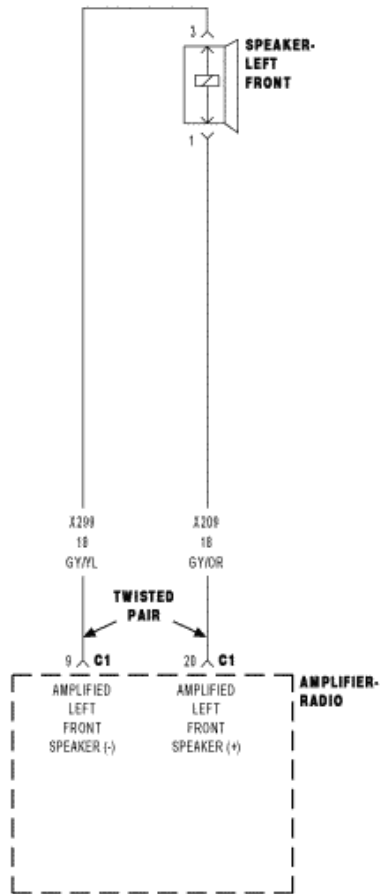
Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B146C-CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT HIGH**

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**Fig. 66: Channel 3 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

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With the ignition on.

### Set Condition:

The amplifier detects a short to battery condition on the output circuit.

### Possible Causes

(X209) AMPLIFIED LEFT FRONT SPEAKER (+) CIRCUIT SHORT TO VOLTAGE  
(X299) AMPLIFIED LEFT FRONT SPEAKER (-) CIRCUIT SHORT TO VOLTAGE  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B146C-CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT HIGH?**

**Yes**

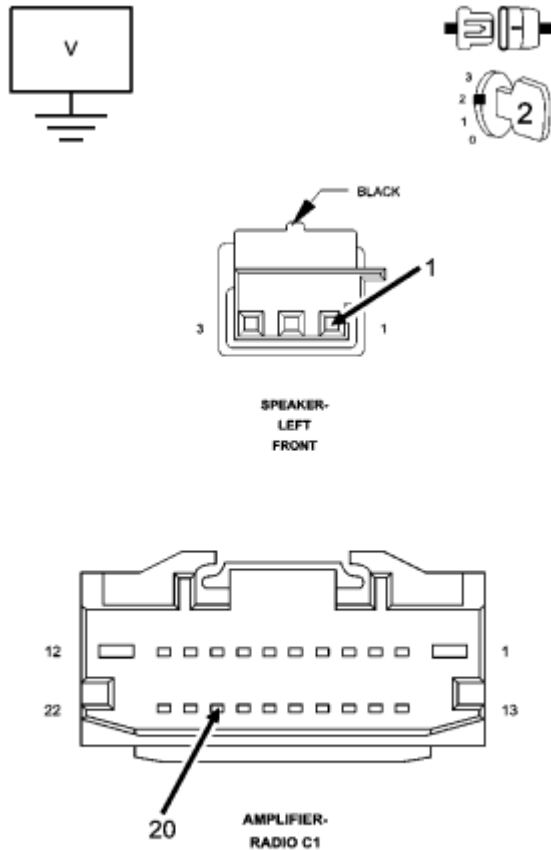
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK FOR VOLTAGE ON THE (X209) AMPLIFIED LEFT FRONT SPEAKER (+) CIRCUIT**



819c1a0a

**Fig. 67: Measuring For Voltage On (X209) Amplified Left Front Speaker (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C1 harness connector.

Disconnect the Amplified Left Front Speaker harness connector.

Turn the ignition on.

Measure for voltage on the (X209) Amplified Left Front Speaker (+) circuit.

**Is the voltage above 10.0 volts?**

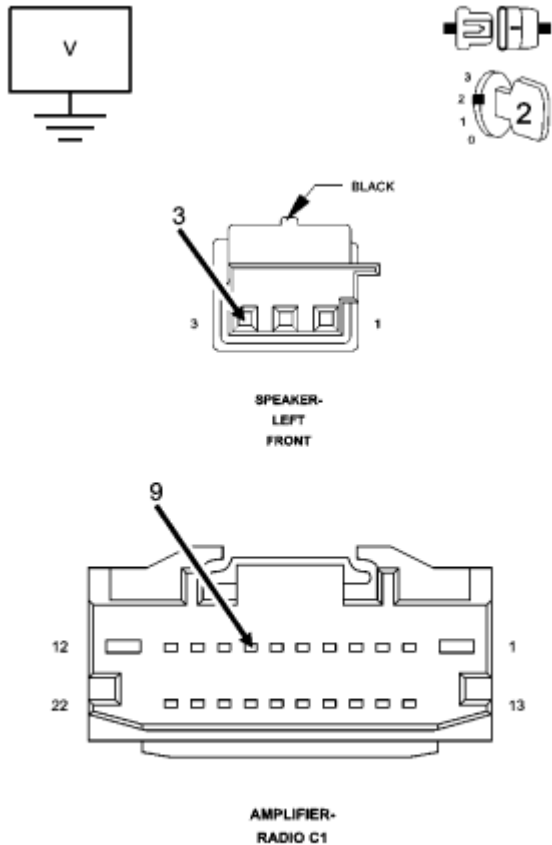
**Yes**

Repair the (X209) Amplified Left Front Speaker (+) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

Go to 3).

**3) CHECK FOR VOLTAGE ON THE (X299) AMPLIFIED LEFT FRONT SPEAKER (-) CIRCUIT**



819c1a4a

**Fig. 68: Measuring For Voltage On (X299) Amplified Left Front Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure for voltage on the (X299) Amplified Left Front Speaker (-) circuit.

**Is the voltage above 10.0 volts?**

Yes

Repair the (X299) Amplified Left Front Speaker (-) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

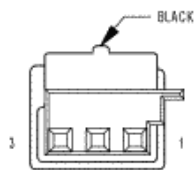
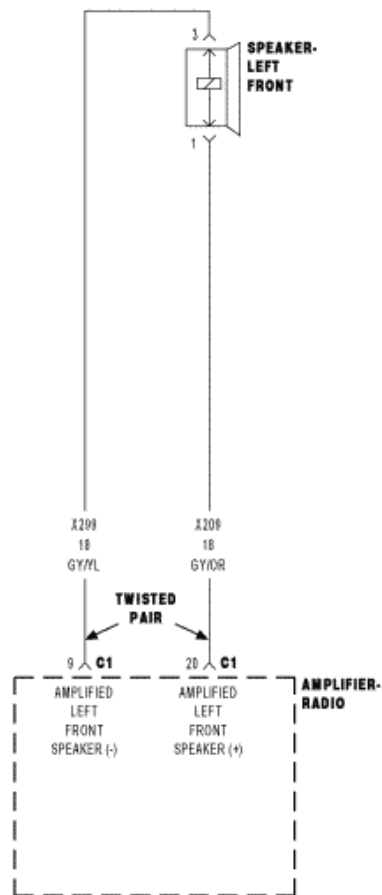
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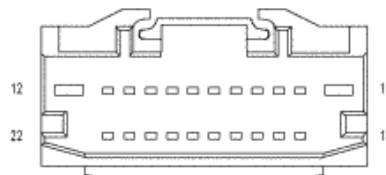
Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1**.

## B146D-CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT OPEN



**SPEAKER-  
LEFT  
FRONT**



**AMPLIFIER-  
RADIO C1**

**Fig. 69: Channel 3 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

Amplifier BUS wake-up. Amplifier reset with scan tool.

**Set Condition:**

The amplifier detects an open condition on the speaker output circuit.

Possible Causes
(X209) AMPLIFIED LEFT FRONT SPEAKER (+) CIRCUIT OPEN
(X299) AMPLIFIED LEFT FRONT SPEAKER (-) CIRCUIT OPEN
AMPLIFIED LEFT FRONT SPEAKER
AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on.

Turn the radio on.

With the scan tool, erase Amplifier DTCs.

With the scan tool, reset the amplifier.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B146D-CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

Go to 2).

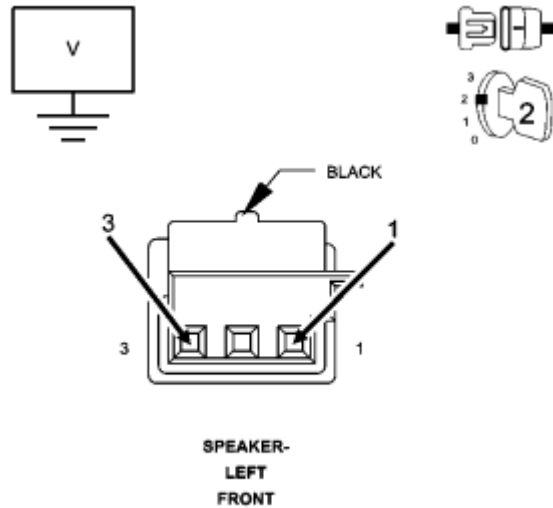
**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE AMPLIFIED LEFT FRONT SPEAKER**





819c1aa2

**Fig. 70: Measuring Voltage Of Amplified Left Front Speaker Circuits In Amplified Left Front Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplified Left Front Speaker harness connector.

Turn the ignition on.

Turn the radio on and turn the volume to mid level.

With a voltmeter set to read in A/C voltage, measure the voltage of the Amplified Left Front Speaker circuits in the Amplified Left Front Speaker harness connector.

**Is the voltage present greater than 1 volt?**

**Yes**

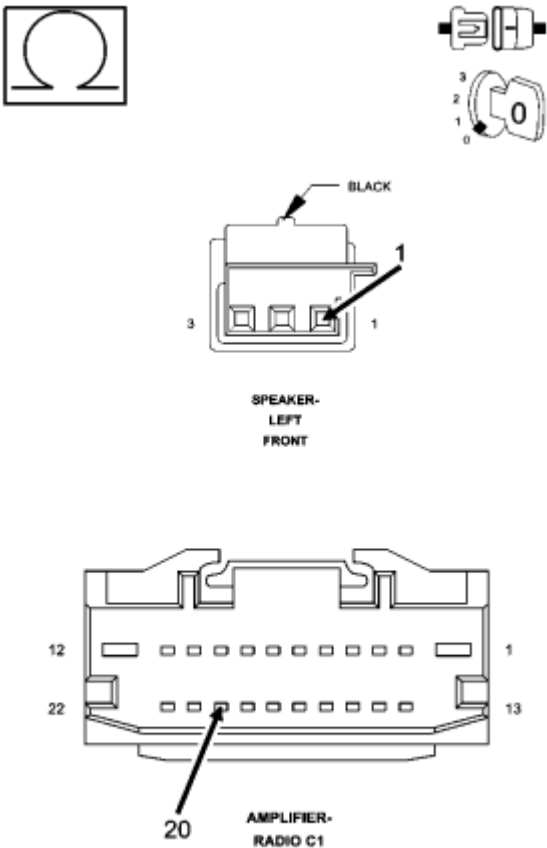
Replace the Amplified Left Front Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X209) AMPLIFIED LEFT FRONT SPEAKER (+) CIRCUIT FOR AN OPEN**



819c1aad

**Fig. 71: Measuring Resistance Of (X209) Amplified Left Front Speaker (+) Circuit Between Amplifier C1 Harness Connector And Amplified Left Front Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C1 harness connector.

Measure the resistance of the (X209) Amplified Left Front Speaker (+) circuit between the Amplifier C1 harness connector and the Amplified Left Front Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

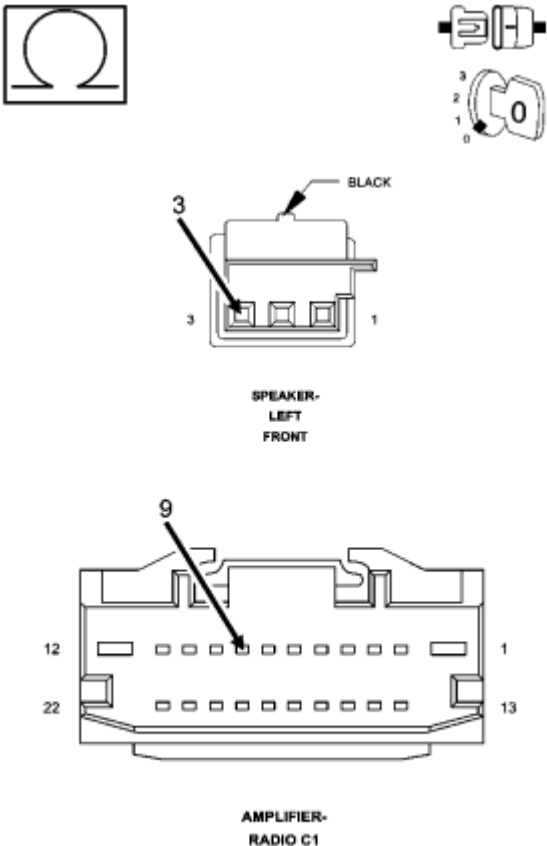
Go to 4).

**No**

Repair the (X209) Amplified Left Front Speaker (+) circuit for an open.

Perform **BODY VERIFICATION TEST - VER 1** .

4) CHECK THE (X299) AMPLIFIED LEFT FRONT SPEAKER (-) CIRCUIT FOR AN OPEN



819c1ab4

**Fig. 72: Measuring Resistance Of (X299) Amplified Left Front Speaker (-) Circuit Between Amplifier C1 Harness Connector And Amplified Left Front Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Measure the resistance of the (X299) Amplified Left Front Speaker (-) circuit between the Amplifier C1 harness connector and the Amplified Left Front Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

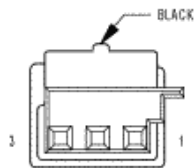
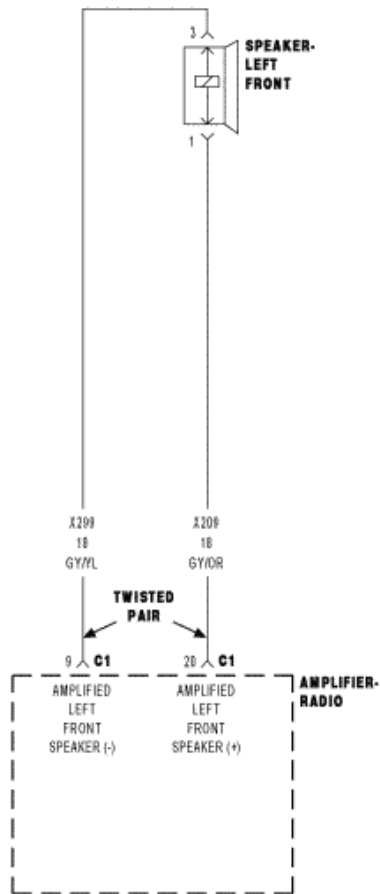
**No**

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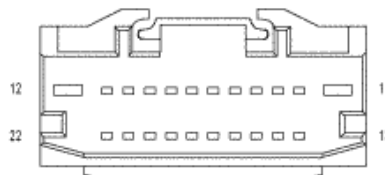
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Repair the (X299) Amplified Left Front Speaker (-) circuit for an open.  
Perform **BODY VERIFICATION TEST - VER 1**.

## B146E-CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER



**SPEAKER-  
LEFT  
FRONT**



**AMPLIFIER-  
RADIO C1**

**Fig. 73: Channel 3 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on. Radio volume at 25 or higher.

**Set Condition:**

The amplifier detects that the output circuits are shorted together.

Possible Causes
(X209) AMPLIFIED LEFT FRONT SPEAKER (+) CIRCUIT SHORTED TO THE (X299) AMPLIFIED LEFT FRONT SPEAKER (-) CIRCUIT
AMPLIFIED LEFT FRONT SPEAKER
AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, erase Amplifier DTCs.

Turn the radio on.

Turn the volume level to 25.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B146E-CHANNEL 3 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER?**

**Yes**

Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE AMPLIFIED LEFT FRONT SPEAKER**

Turn the ignition off.

Disconnect the Amplified Left Front Speaker.

Measure the resistance of the speaker between the two terminals.

**Is the resistance of the speaker less than 1 ohm?**

**Yes**

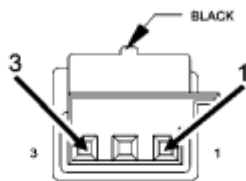
Replace the Amplified Left Front Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

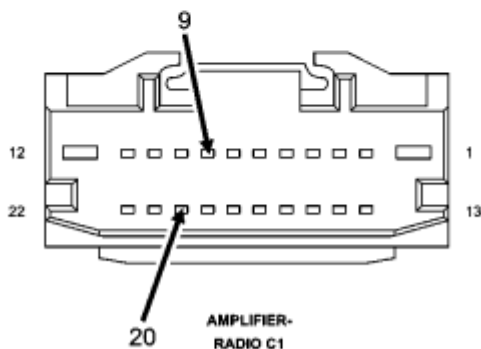
**No**

Go to 3).

**3) CHECK THE (X209) AMPLIFIED LEFT FRONT SPEAKER (+) CIRCUIT, AND THE (X299) AMPLIFIED LEFT FRONT SPEAKER (-) CIRCUITS FOR A SHORT TOGETHER**



SPEAKER-  
LEFT  
FRONT



AMPLIFIER-  
RADIO C1

**Fig. 74: Measuring Resistance Between (X209) Amplified Left Front Speaker (+) Circuit And (X299) Amplified Left Front Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Disconnect the Amplifier C1 harness connector.

Measure the resistance between the (X209) Amplified Left Front Speaker (+) circuit, and the (X299) Amplified Left Front Speaker (-) circuit.

**Is the resistance below 10K ohms?**

**Yes**

Repair the (X209) Amplified Left Front Speaker (+) circuit, and the (X299) Amplified Left Front Speaker (-) circuit for a short together.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B146F-CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on.

**Set Condition:**

This DTC will set if a DC offset occurs on the output channel, the amplifier shall set a DTC after a maturity rate of  $5 \pm 1$  sec.

Possible Causes
AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, read amplifier DTCs.

**Does the scan tool display active: B146F-CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE?**

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**Yes**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

The conditions that caused this code to set are not present at this time. Using the wiring diagram/schematic as a guide, inspect the wiring and connectors.

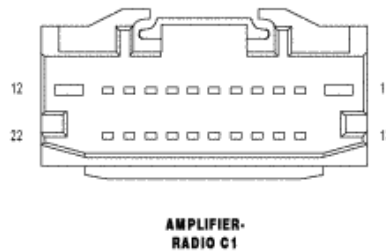
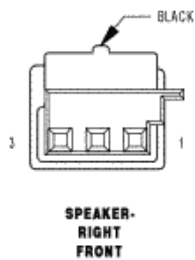
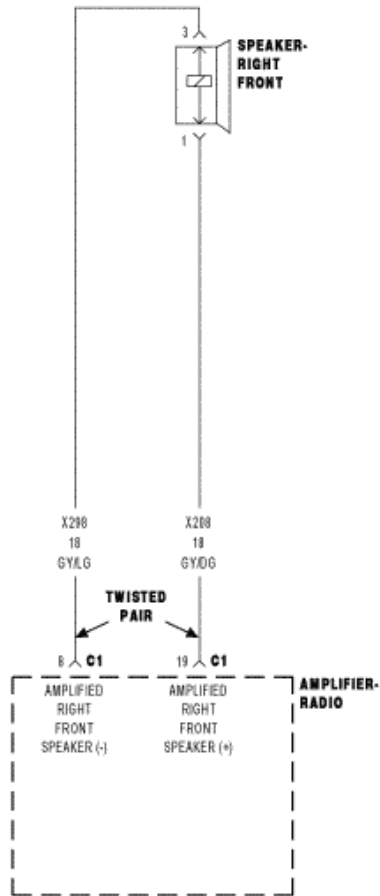
Perform **BODY VERIFICATION TEST - VER 1** .

**B1470-CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT LOW**



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**Fig. 75: Channel 4 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

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With the ignition on.

### Set Condition:

The amplifier detects a shorted to ground condition on the speaker output circuit.

### Possible Causes

(X208) AMPLIFIED RIGHT FRONT SPEAKER (+) CIRCUIT SHORTED TO GROUND  
(X298) AMPLIFIED RIGHT FRONT SPEAKER (-) CIRCUIT SHORTED TO GROUND  
RIGHT FRONT SPEAKER  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1470-CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

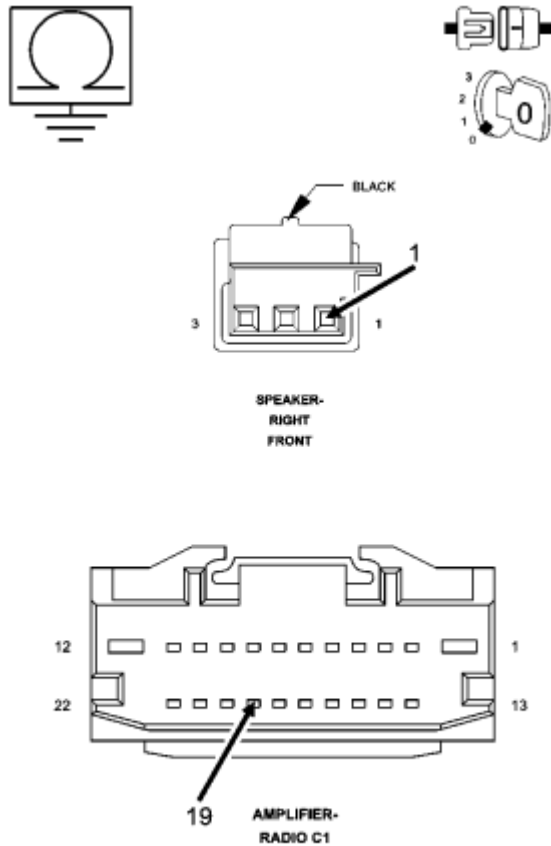
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE (X208) AMPLIFIED RIGHT FRONT SPEAKER (+) CIRCUIT FOR A SHORT TO GROUND**



819c26a3

**Fig. 76: Measuring Resistance Between Ground And (X208) Amplified Right Front Speaker (+) Circuit**

Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C1 harness connector.

Disconnect the Right Front Speaker harness connector.

Measure the resistance between ground and the (X208) Amplified Right Front Speaker (+) circuit.

**Is the resistance below 10K ohms?**

**Yes**

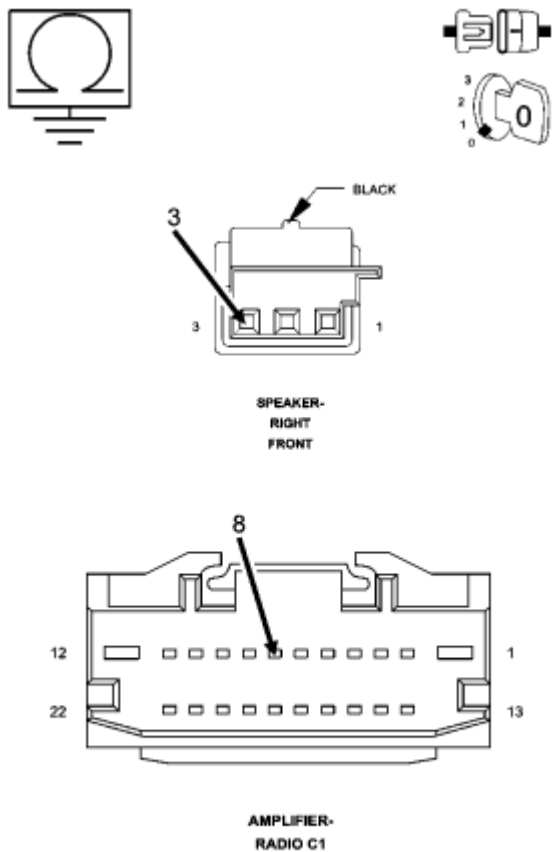
Repair the (X208) Amplified Right Front Speaker (+) circuit for a short to ground.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X298) AMPLIFIED RIGHT FRONT SPEAKER (-) CIRCUIT FOR A SHORT TO GROUND**



819c26c6

**Fig. 77: Measuring Resistance Between Ground And (X298) Amplified Right Front Speaker (-) Circuit**

Courtesy of CHRYSLER LLC

Measure the resistance between ground and the (X298) Amplified Right Front Speaker (-) circuit.

**Is the resistance below 10K ohms?**

**Yes**

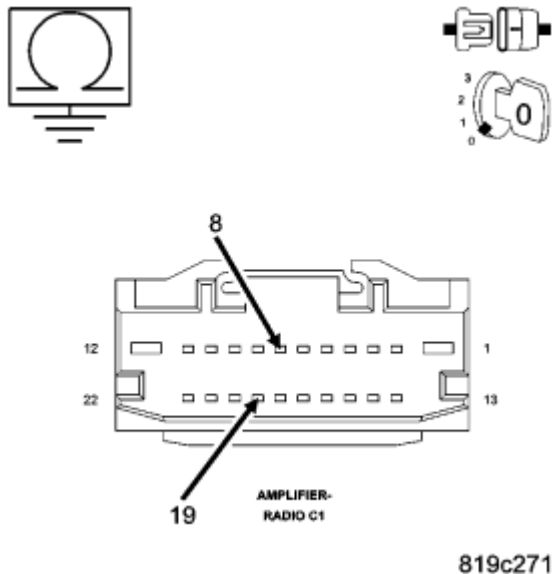
Repair the (X298) Amplified Right Front Speaker (-) for a short to ground.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 4).

#### 4) CHECK OPERATION OF THE AMPLIFIED RIGHT FRONT SPEAKER



819c2716

#### **Fig. 78: Measuring Resistance Of Speaker Circuit Between Amplifier C1 Harness Connector And Ground**

Courtesy of CHRYSLER LLC

Reconnect and reinstall the Right Front Speaker.

Measure the resistance of the speaker circuit between the Amplifier C1 harness connector and ground.

**Is the resistance below 10K ohms?**

**Yes**

Replace the Right Front Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

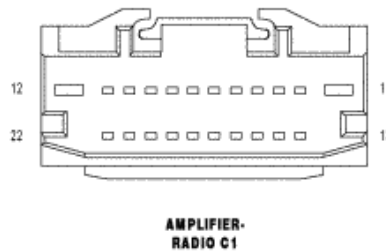
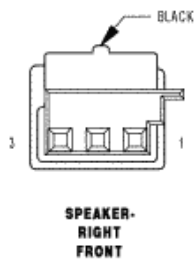
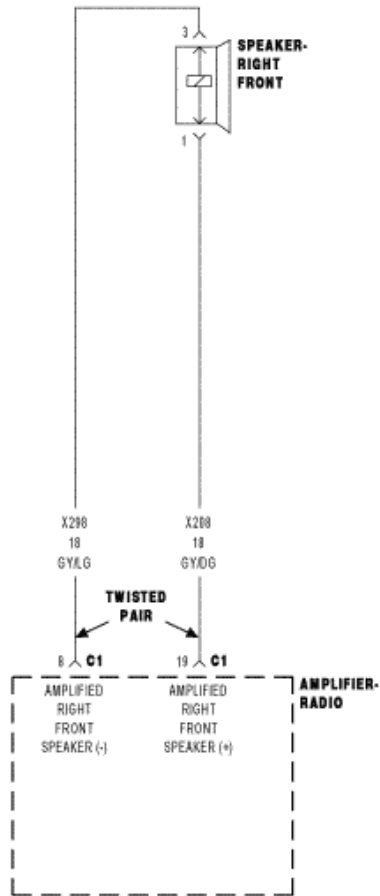
Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B1471-CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT HIGH**

# 2007 Dodge Nitro R/T

## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



010c2059

**Fig. 79: Channel 4 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

## 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

With the ignition on.

### Set Condition:

The amplifier detects a short to battery condition on the output circuit.

### Possible Causes

(X208) AMPLIFIED RIGHT FRONT SPEAKER (+) CIRCUIT SHORT TO VOLTAGE  
(X298) AMPLIFIED RIGHT FRONT SPEAKER (-) CIRCUIT SHORT TO VOLTAGE  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1471-CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT HIGH?**

**Yes**

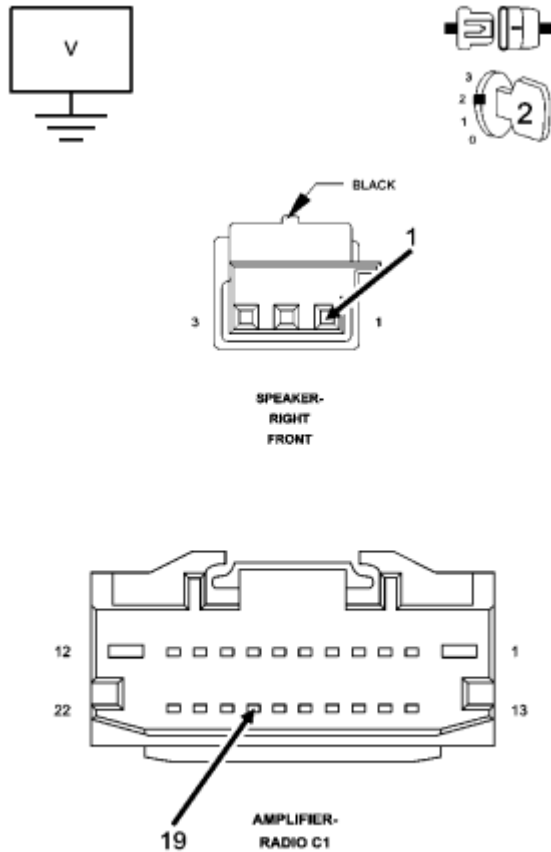
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK FOR VOLTAGE ON THE (X208) AMPLIFIED RIGHT FRONT SPEAKER (+) CIRCUIT**



819c293e

**Fig. 80: Measuring For Voltage On (X208) Amplified Right Front Speaker (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C1 harness connector.

Disconnect the Amplified Right Front Speaker harness connector.

Turn the ignition on.

Measure for voltage on the (X208) Amplified Right Front Speaker (+) circuit.

**Is the voltage above 10.0 volts?**

**Yes**

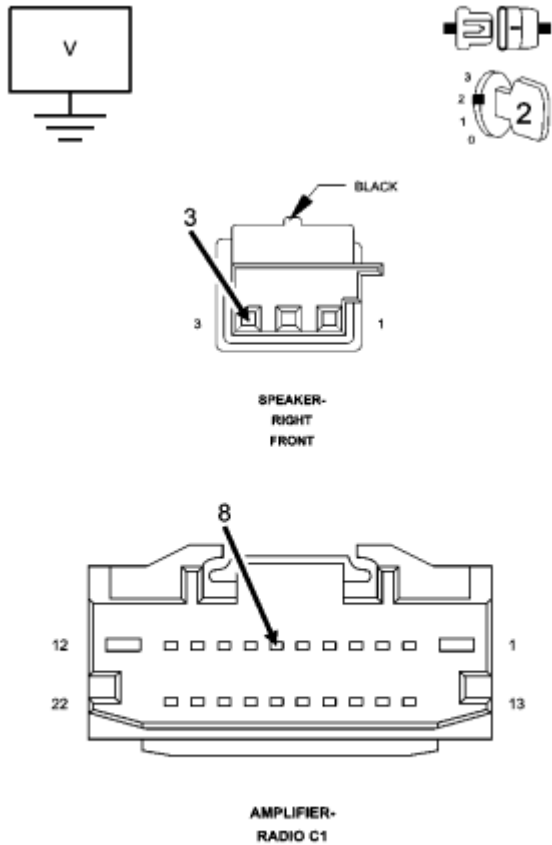
Repair the (X208) Amplified Right Front Speaker (+) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .



No

Go to 3).

**3) CHECK FOR VOLTAGE ON THE (X298) AMPLIFIED RIGHT FRONT SPEAKER (-) CIRCUIT**



819c2947

**Fig. 81: Measuring For Voltage On (X298) Amplified Right Front Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure for voltage on the (X298) Amplified Right Front Speaker (-) circuit.

**Is the voltage above 10.0 volts?**

Yes

Repair the (X298) Amplified Right Front Speaker (-) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

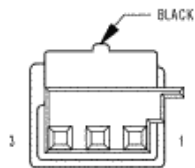
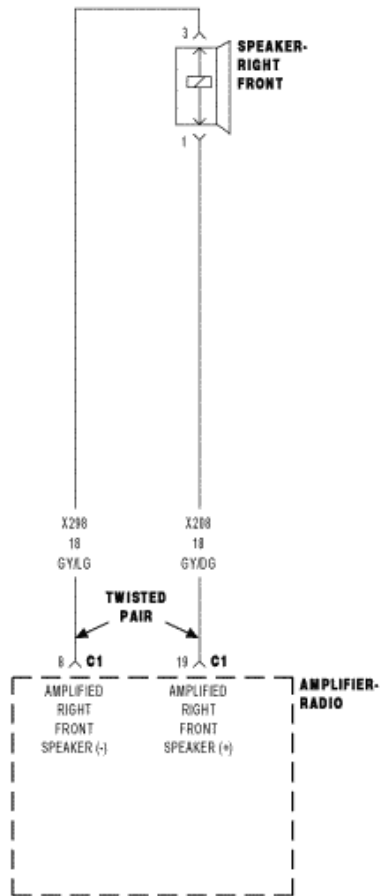
# 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

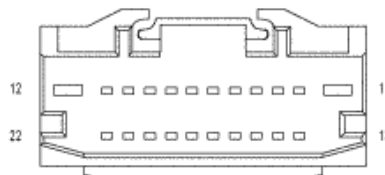
Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1**.

## B1472-CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT OPEN



**SPEAKER-  
RIGHT  
FRONT**



**AMPLIFIER-  
RADIO C1**

**Fig. 82: Channel 4 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

Amplifier BUS wake-up. Amplifier reset with scan tool.

**Set Condition:**

The amplifier detects an open condition on the speaker output circuit.

Possible Causes
(X208) AMPLIFIED RIGHT FRONT SPEAKER (+) CIRCUIT OPEN
(X298) AMPLIFIED RIGHT FRONT SPEAKER (-) CIRCUIT OPEN
AMPLIFIED RIGHT FRONT SPEAKER
AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on.

Turn the radio on.

With the scan tool, erase Amplifier DTCs.

With the scan tool, reset the amplifier.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1472-CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

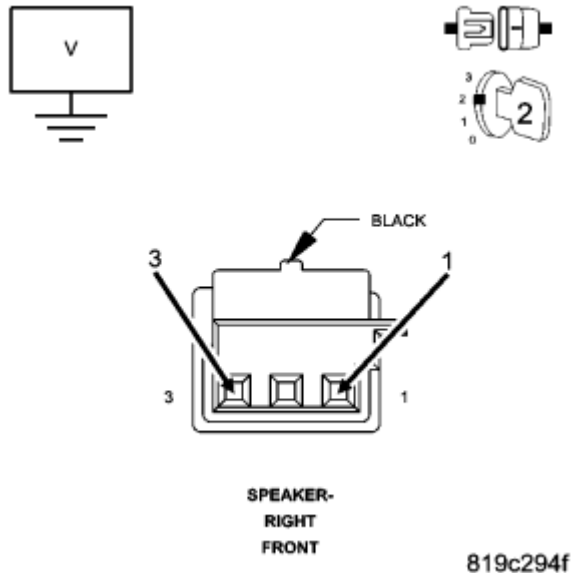
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE AMPLIFIED RIGHT FRONT SPEAKER**



**Fig. 83: Measuring Voltage Of Amplified Right Front Speaker Circuits In Amplified Right Front Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplified Right Front Speaker harness connector.

Turn the ignition on.

Turn the radio on and turn the volume to mid level.

With a voltmeter set to read in A/C voltage, measure the voltage of the Amplified Right Front Speaker circuits in the Amplified Right Front Speaker harness connector.

**Is the voltage present greater than 1 volt?**

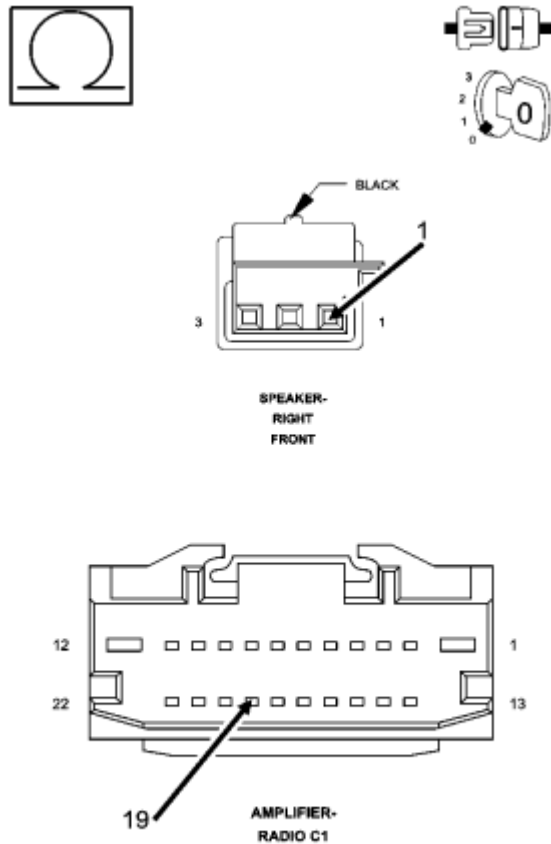
**Yes**

Replace the Amplified Right Front Speaker in accordance with the service information.  
 Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X208) AMPLIFIED RIGHT FRONT SPEAKER (+) CIRCUIT FOR AN OPEN**



819c295c

**Fig. 84: Measuring Resistance Of (X208) Amplified Right Front Speaker (+) Circuit Between Amplifier C1 Harness Connector And Amplified Right Front Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C1 harness connector.

Measure the resistance of the (X208) Amplified Right Front Speaker (+) circuit between the Amplifier C1 harness connector and the Amplified Right Front Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

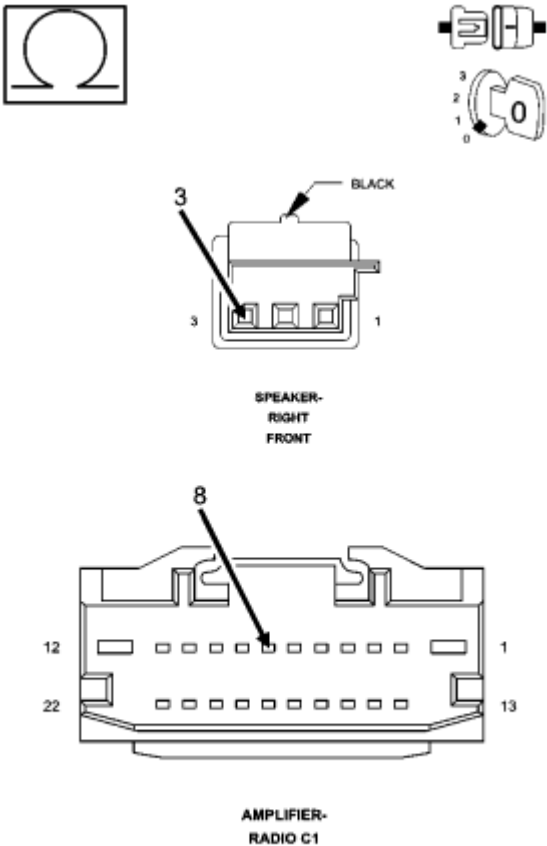
Go to 4).

**No**

Repair the (X208) Amplified Right Front Speaker (+) circuit for an open.

Perform **BODY VERIFICATION TEST - VER 1** .

**4) CHECK THE (X298) AMPLIFIED RIGHT FRONT SPEAKER (-) CIRCUIT FOR AN OPEN**



819c2962

**Fig. 85: Measuring Resistance Of (X298) Amplified Right Front Speaker (-) Circuit Between Amplifier C1 Harness Connector And Amplified Right Front Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Measure the resistance of the (X298) Amplified Right Front Speaker (-) circuit between the Amplifier C1 harness connector and the Amplified Right Front Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

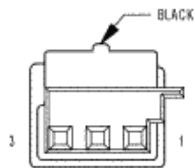
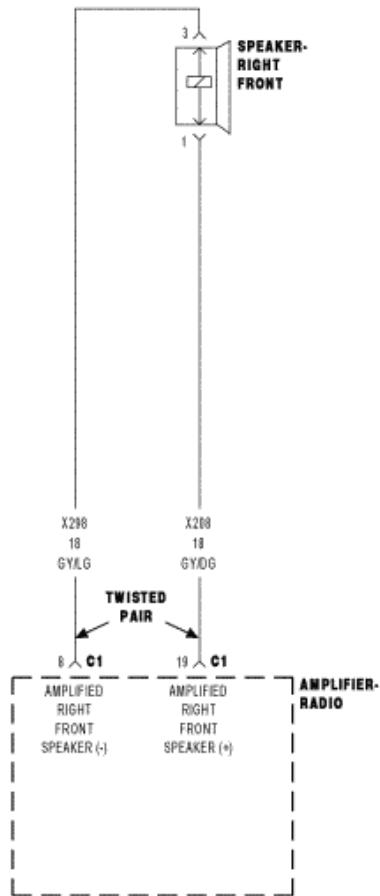
**No**

# 2007 Dodge Nitro R/T

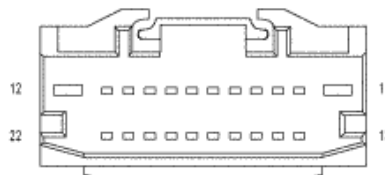
2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

Repair the (X298) Amplified Right Front Speaker (-) circuit for an open.  
Perform **BODY VERIFICATION TEST - VER 1**.

## B1473-CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER



**SPEAKER-  
RIGHT  
FRONT**



**AMPLIFIER-  
RADIO C1**

**Fig. 86: Channel 4 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on. Radio volume at 25 or higher.

**Set Condition:**

The amplifier detects that the output circuits are shorted together.

Possible Causes
(X208) AMPLIFIED RIGHT FRONT SPEAKER (+) CIRCUIT SHORTED TO THE (X298) AMPLIFIED RIGHT FRONT SPEAKER (-) CIRCUIT AMPLIFIED RIGHT FRONT SPEAKER AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, erase Amplifier DTCs.

Turn the radio on.

Turn the volume level to 25.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1473-CHANNEL 4 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER?**

**Yes**

Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE AMPLIFIED RIGHT FRONT SPEAKER**



Turn the ignition off.

Disconnect the Amplified Right Front Speaker.

Measure the resistance of the speaker between the two terminals.

**Is the resistance of the speaker less than 1 ohm?**

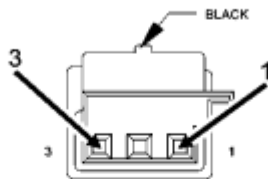
**Yes**

Replace the Amplified Right Front Speaker in accordance with the service information.  
Perform **BODY VERIFICATION TEST - VER 1** .

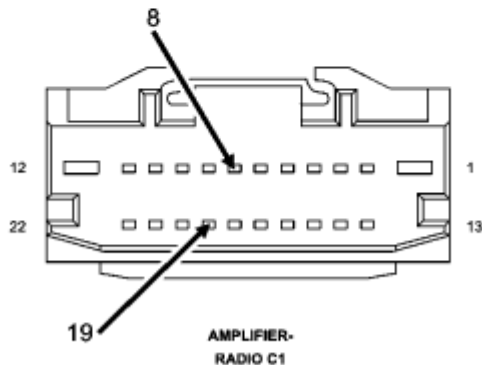
**No**

Go to 3).

**3) CHECK THE (X208) AMPLIFIED RIGHT FRONT SPEAKER (+) CIRCUIT, AND THE (X298) AMPLIFIED RIGHT FRONT SPEAKER (-) CIRCUITS FOR A SHORT TOGETHER**



SPEAKER-  
RIGHT  
FRONT



AMPLIFIER-  
RADIO C1

**Fig. 87: Measuring Resistance Between (X208) Amplified Right Front Speaker (+) Circuit And (X298) Amplified Right Front Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Disconnect the Amplifier C1 harness connector.

Measure the resistance between the (X208) Amplified Right Front Speaker (+) circuit, and the (X298) Amplified Right Front Speaker (-) circuit.

**Is the resistance below 10K ohms?**

**Yes**

Repair the (X208) Amplified Right Front Speaker (+) circuit, and the (X298) Amplified Right Front Speaker (-) circuit for a short together.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B1474-CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on.

**Set Condition:**

This DTC will set if a DC offset occurs on the output channel, the amplifier shall set a DTC after a maturity rate of  $5 \pm 1$  sec.

Possible Causes
AMPLIFIER

AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1474-CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE?**

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**Yes**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

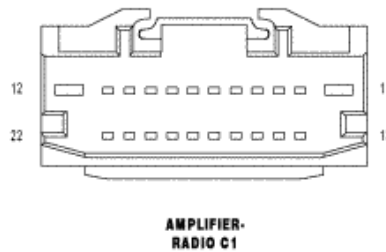
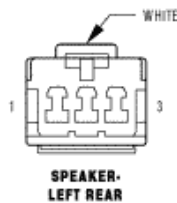
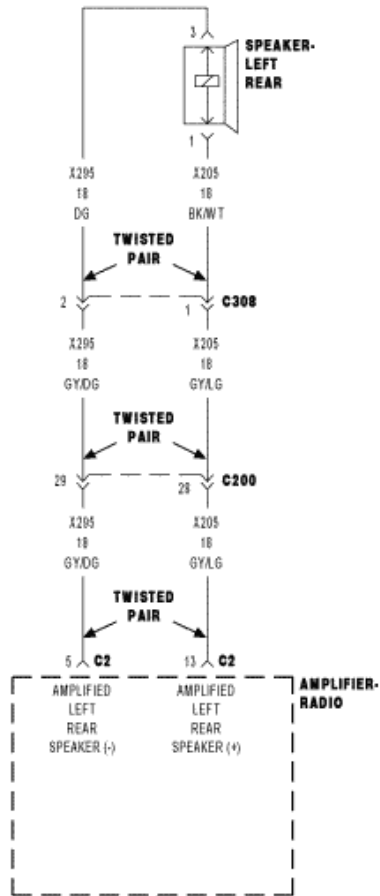
The conditions that caused this code to set are not present at this time. Using the wiring diagram/schematic as a guide, inspect the wiring and connectors.

Perform **BODY VERIFICATION TEST - VER 1** .

**B1475-CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT LOW**

# 2007 Dodge Nitro R/T

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819c2n73

**Fig. 88: Channel 5 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

## 2007 Dodge Nitro R/T

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With the ignition on.

### Set Condition:

The amplifier detects a shorted to ground condition on the speaker output circuit.

### Possible Causes

(X205) AMPLIFIED LEFT REAR SPEAKER (+) CIRCUIT SHORTED TO GROUND  
(X295) AMPLIFIED LEFT REAR SPEAKER (-) CIRCUIT SHORTED TO GROUND  
LEFT REAR SPEAKER  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1475-CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

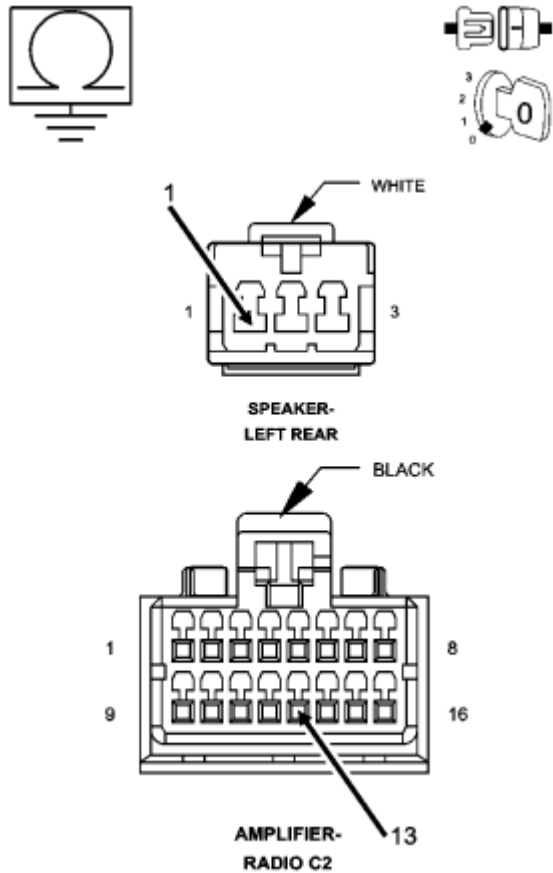
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE (X205) AMPLIFIED LEFT REAR SPEAKER (+) CIRCUIT FOR A SHORT TO GROUND**



819c2bb5

**Fig. 89: Measuring Resistance Between Ground And (X205) Amplified Left Rear Speaker (+) Circuit**

Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Disconnect the Left Rear Speaker harness connector.

Measure the resistance between ground and the (X205) Amplified Left Rear Speaker (+) circuit.

**Is the resistance below 10K ohms?**

**Yes**

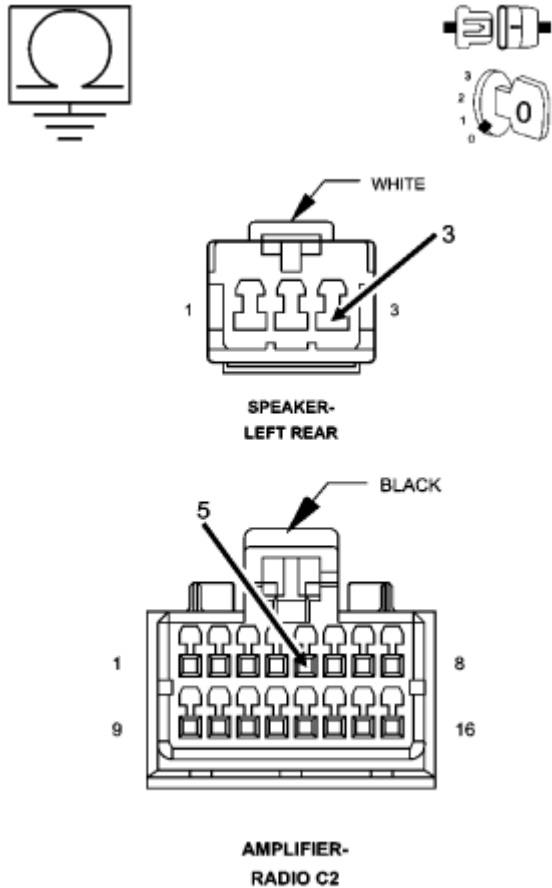
Repair the (X205) Amplified Left Rear Speaker (+) circuit for a short to ground.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X295) AMPLIFIED LEFT REAR SPEAKER (-) CIRCUIT FOR A SHORT TO GROUND**



819c2bf0

**Fig. 90: Measuring Resistance Between Ground And (X295) Amplified Left Rear Speaker (-) Circuit**

Courtesy of CHRYSLER LLC

Measure the resistance between ground and the (X295) Amplified Left Rear Speaker (-) circuit.

**Is the resistance below 10K ohms?**

**Yes**

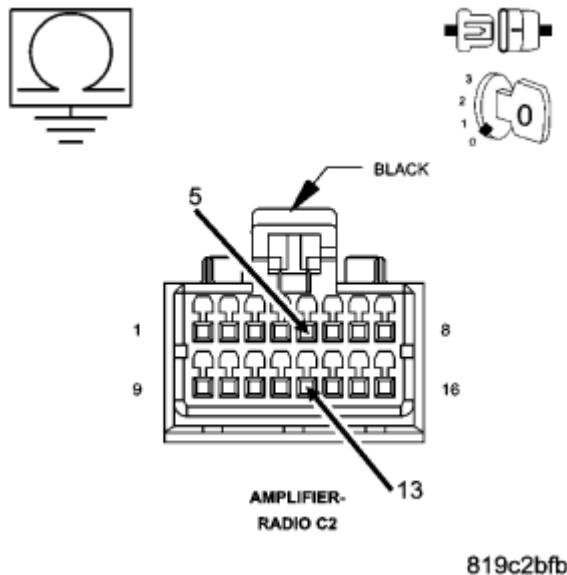
Repair the (X295) Amplified Left Rear Speaker (-) for a short to ground.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 4).

#### 4) CHECK OPERATION OF THE AMPLIFIED LEFT REAR SPEAKER



**Fig. 91: Measuring Resistance Of Speaker Circuit Between Amplifier C2 Harness Connector And Ground**

Courtesy of CHRYSLER LLC

Reconnect and reinstall the Left Rear Speaker.

Measure the resistance of the speaker circuit between the Amplifier C2 harness connector and ground.

**Is the resistance below 10K ohms?**

**Yes**

Replace the Left Rear Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Replace the amplifier in accordance with the service information.

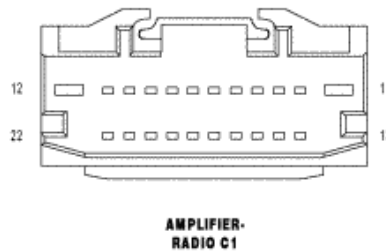
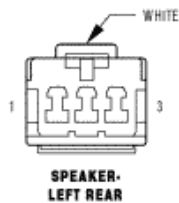
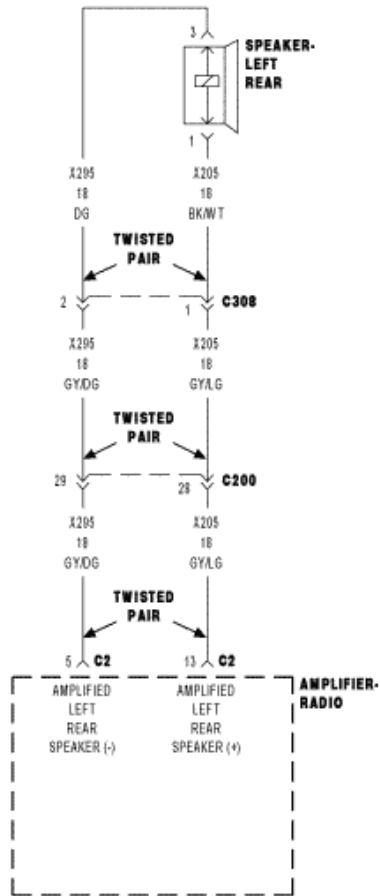
Perform **BODY VERIFICATION TEST - VER 1** .

**B1476-CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT HIGH**



# 2007 Dodge Nitro R/T

## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



819c2n73

**Fig. 92: Channel 5 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

## 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

With the ignition on.

### Set Condition:

The amplifier detects a short to battery condition on the output circuit.

### Possible Causes

(X205) AMPLIFIED LEFT REAR SPEAKER (+) CIRCUIT SHORT TO VOLTAGE  
(X295) AMPLIFIED LEFT REAR SPEAKER (-) CIRCUIT SHORT TO VOLTAGE  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1476-CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT HIGH?**

**Yes**

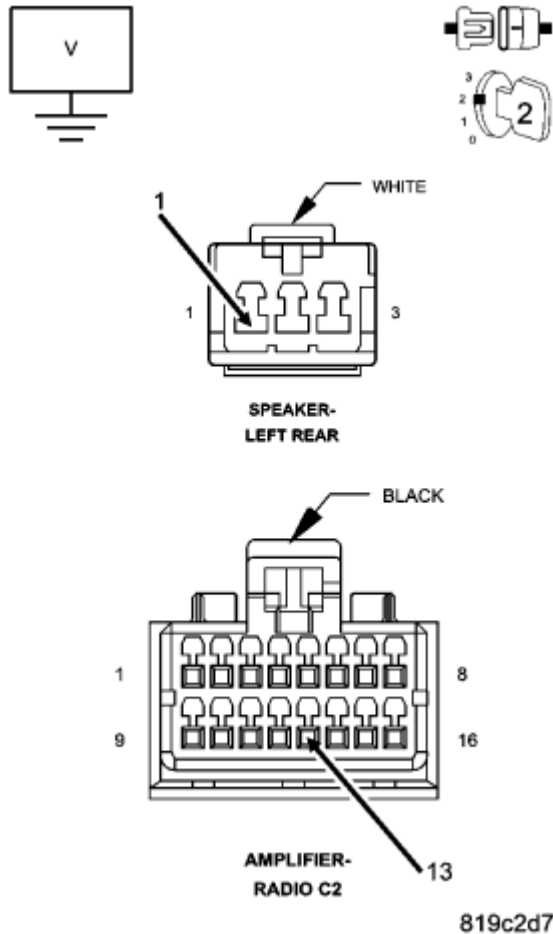
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK FOR VOLTAGE ON THE (X205) AMPLIFIED LEFT REAR SPEAKER (+) CIRCUIT**



**Fig. 93: Measuring For Voltage On (X205) Amplified Left Rear Speaker (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Disconnect the Amplified Left Rear Speaker harness connector.

Turn the ignition on.

Measure for voltage on the (X205) Amplified Left Rear Speaker (+) circuit.

**Is the voltage above 10.0 volts?**

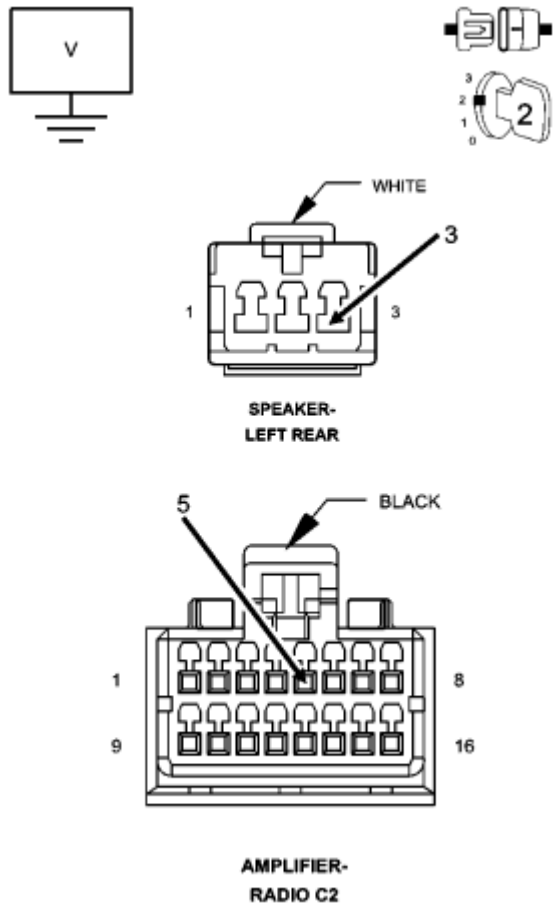
**Yes**

Repair the (X205) Amplified Left Rear Speaker (+) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

Go to 3).

**3) CHECK FOR VOLTAGE ON THE (X295) AMPLIFIED LEFT REAR SPEAKER (-) CIRCUIT**



819c2d79

**Fig. 94: Measuring For Voltage On (X295) Amplified Left Rear Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure for voltage on the (X295) Amplified Left Rear Speaker (-) circuit.

**Is the voltage above 10.0 volts?**

Yes

Repair the (X295) Amplified Left Rear Speaker (-) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

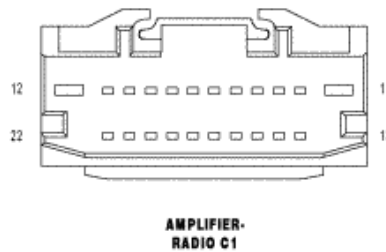
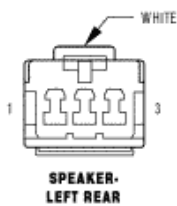
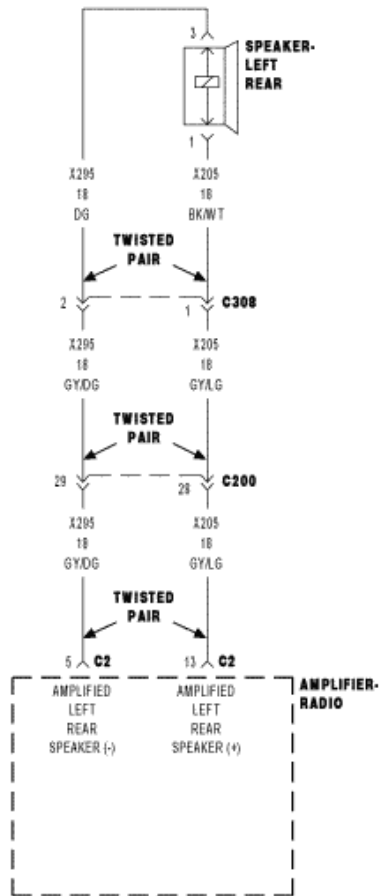
# 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1**.

## B1477-CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT OPEN



**Fig. 95: Channel 5 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

Amplifier BUS wake-up. Amplifier reset with scan tool.

**Set Condition:**

The amplifier detects an open condition on the speaker output circuit.

Possible Causes
(X205) AMPLIFIED LEFT REAR SPEAKER (+) CIRCUIT OPEN
(X295) AMPLIFIED LEFT REAR SPEAKER (-) CIRCUIT OPEN
LEFT REAR SPEAKER
AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on.

Turn the radio on.

With the scan tool, erase Amplifier DTCs.

With the scan tool, reset the amplifier.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1477-CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

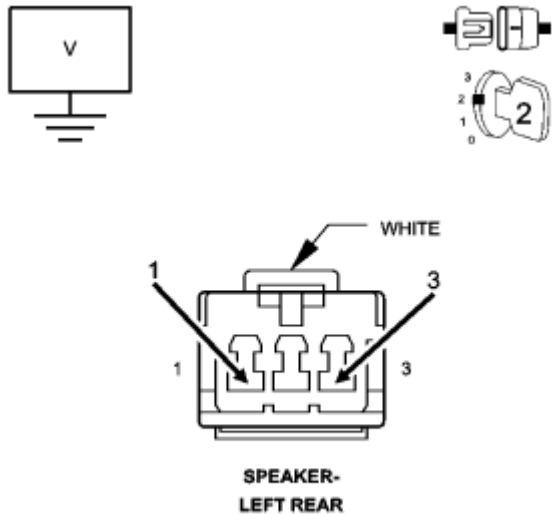
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE AMPLIFIED LEFT REAR SPEAKER**



819c2d99

**Fig. 96: Measuring Voltage Of Amplified Left Rear Speaker Circuits In Amplified Left Rear Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Left Rear Speaker harness connector.

Turn the ignition on.

Turn the radio on and turn the volume to mid level.

With a voltmeter set to read in A/C voltage, measure the voltage of the Amplified Left Rear Speaker circuits in the Amplified Left Rear Speaker harness connector.

**Is the voltage present greater than 1 volt?**

**Yes**

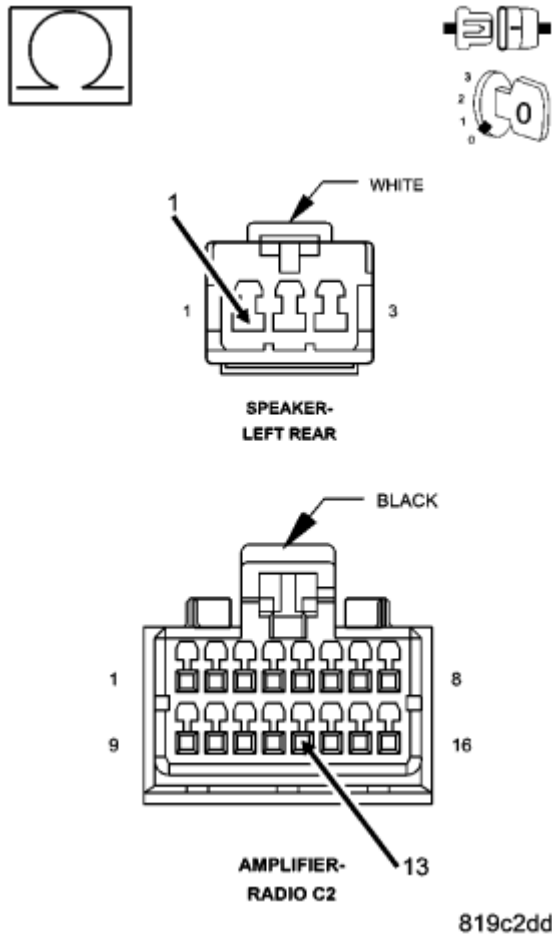
Replace the Amplified Left Rear Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X205) AMPLIFIED LEFT REAR SPEAKER (+) CIRCUIT FOR AN OPEN**



**Fig. 97: Measuring Resistance Of (X205) Amplified Left Rear Speaker (+) Circuit Between Amplifier C2 Harness Connector And Amplified Left Rear Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Measure the resistance of the (X205) Amplified Left Rear Speaker (+) circuit between the Amplifier C2 harness connector and the Amplified Left Rear Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

Go to 4).

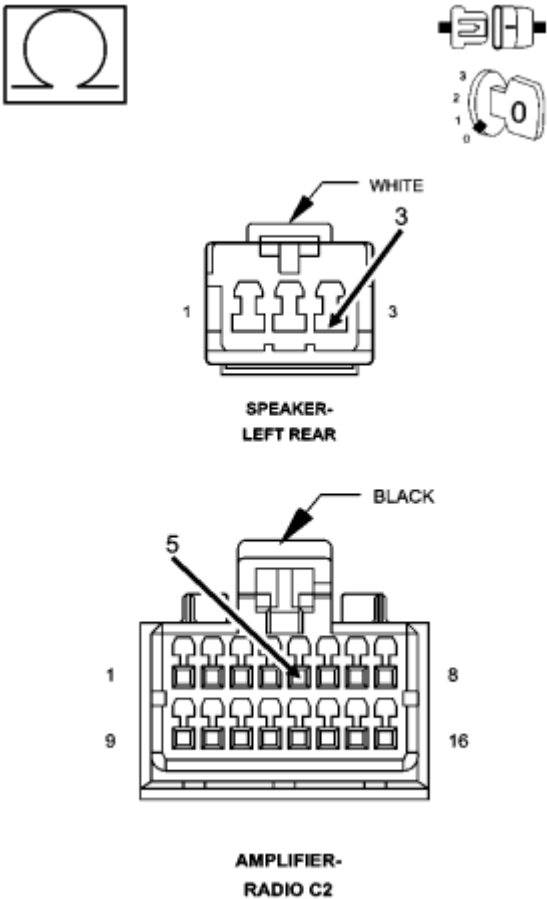
**No**

Repair the (X205) Amplified Left Rear Speaker (+) circuit for an open.



Perform **BODY VERIFICATION TEST - VER 1** .

4) CHECK THE (X295) AMPLIFIED LEFT REAR SPEAKER (-) CIRCUIT FOR AN OPEN



819c2df0

**Fig. 98: Measuring Resistance Of (X295) Amplified Left Rear Speaker (-) Circuit Between Amplifier C2 Harness Connector And Amplified Left Rear Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Measure the resistance of the (X295) Amplified Left Rear Speaker (-) circuit between the Amplifier C2 harness connector and the Amplified Left Rear Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

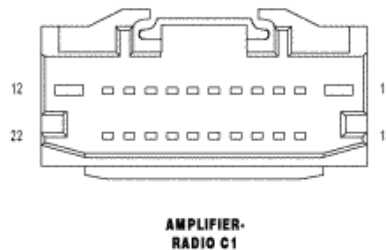
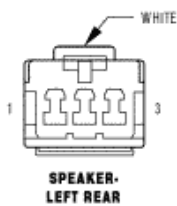
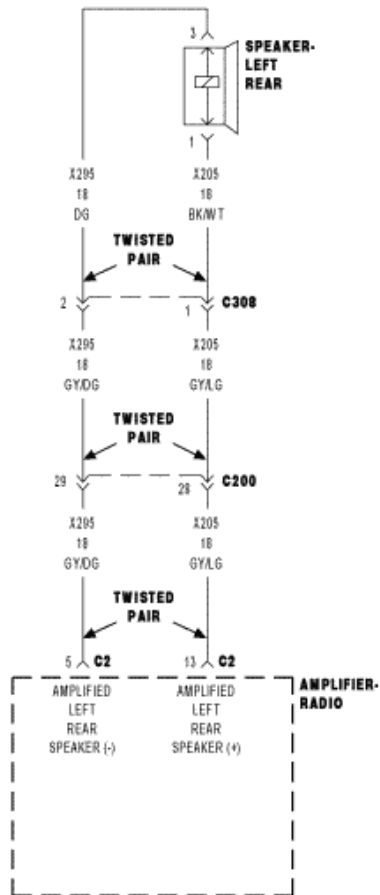
**No**

# 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

Repair the (X295) Amplified Left Rear Speaker (-) circuit for an open.  
Perform **BODY VERIFICATION TEST - VER 1** .

## B1478-CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER



**Fig. 99: Channel 5 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on. Radio volume at 25 or higher.

**Set Condition:**

The amplifier detects that the output circuits are shorted together.

Possible Causes
(X205) AMPLIFIED LEFT REAR SPEAKER (+) CIRCUIT SHORTED TO THE (X295) AMPLIFIED LEFT REAR SPEAKER (-) CIRCUIT AMPLIFIED LEFT REAR SPEAKER AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, erase Amplifier DTCs.

Turn the radio on.

Turn the volume level to 25.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1478-CHANNEL 5 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER?**

**Yes**

Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE AMPLIFIED LEFT REAR SPEAKER**

Turn the ignition off.

Disconnect the Amplified Left Rear Speaker.

Measure the resistance of the speaker between the two terminals.

**Is the resistance of the speaker less than 1 ohm?**

**Yes**

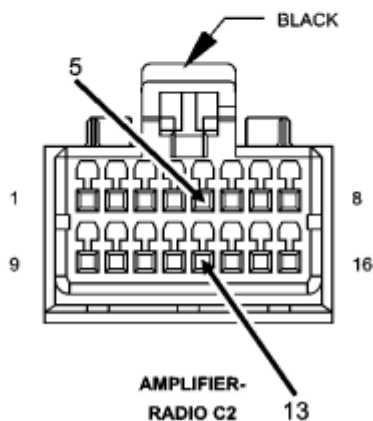
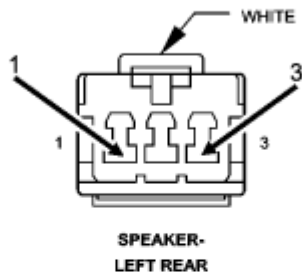
Replace the Amplified Left Rear Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X205) AMPLIFIED LEFT REAR SPEAKER (+) CIRCUIT, AND THE (X295) AMPLIFIED LEFT REAR SPEAKER (-) CIRCUITS FOR A SHORT TOGETHER**



**Fig. 100: Measuring Resistance Between (X205) Amplified Left Rear Speaker (+) Circuit And (X295) Amplified Left Rear Speaker (-) Circuit**

Courtesy of CHRYSLER LLC

Disconnect the Amplifier C2 harness connector.

Measure the resistance between the (X205) Amplified Left Rear Speaker (+) circuit, and the (X295) Amplified Left Rear Speaker (-) circuit.

**Is the resistance below 10K ohms?**

**Yes**

Repair the (X205) Amplified Left Rear Speaker (+) circuit, and the (X295) Amplified Left Rear Speaker (-) circuit for a short together.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B1479-CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on.

**Set Condition:**

This DTC will set if a DC offset occurs on the output channel, the amplifier shall set a DTC after a maturity rate of  $5 \pm 1$  sec.

Possible Causes
AMPLIFIER

AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B1479-CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT PERFORMANCE?**

## 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

### Yes

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

### No

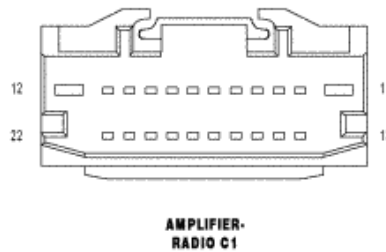
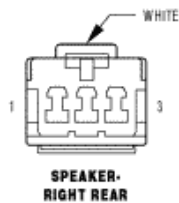
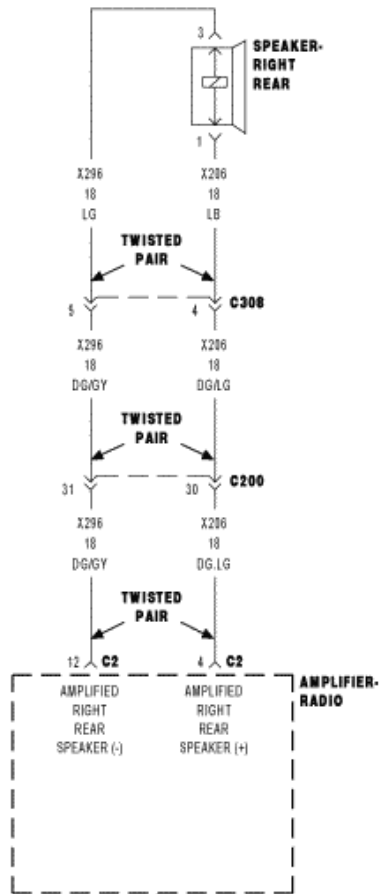
The conditions that caused this code to set are not present at this time. Using the wiring diagram/schematic as a guide, inspect the wiring and connectors.

Perform **BODY VERIFICATION TEST - VER 1** .

**B147A-CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT LOW**

# 2007 Dodge Nitro R/T

## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



819C204

**Fig. 101: Channel 6 Audio Speaker Output Circuit Schematic**  
Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

## 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

With the ignition on.

### Set Condition:

The amplifier detects a shorted to ground condition on the speaker output circuit.

### Possible Causes

(X206) AMPLIFIED RIGHT REAR SPEAKER (+) CIRCUIT SHORTED TO GROUND  
(X296) AMPLIFIED RIGHT REAR SPEAKER (-) CIRCUIT SHORTED TO GROUND  
RIGHT REAR SPEAKER  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B147A-CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT LOW?**

**Yes**

Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

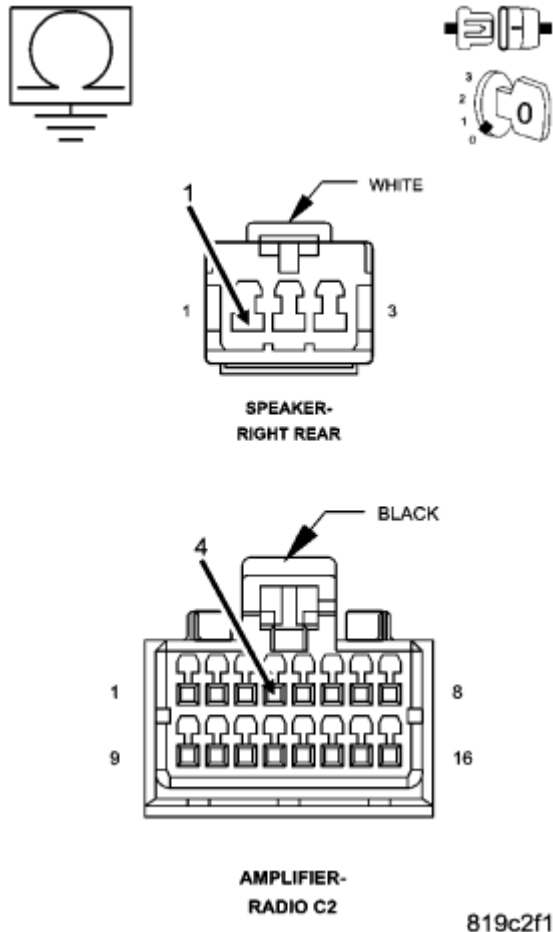
Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE (X206) AMPLIFIED RIGHT REAR SPEAKER (+) CIRCUIT FOR A SHORT TO GROUND**



## 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



**Fig. 102: Measuring Resistance Between Ground And (X206) Amplified Right Rear Speaker (+) Circuit**

Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Disconnect the Right Rear Speaker harness connector.

Measure the resistance between ground and the (X206) Amplified Right Rear Speaker (+) circuit.

**Is the resistance below 10K ohms?**

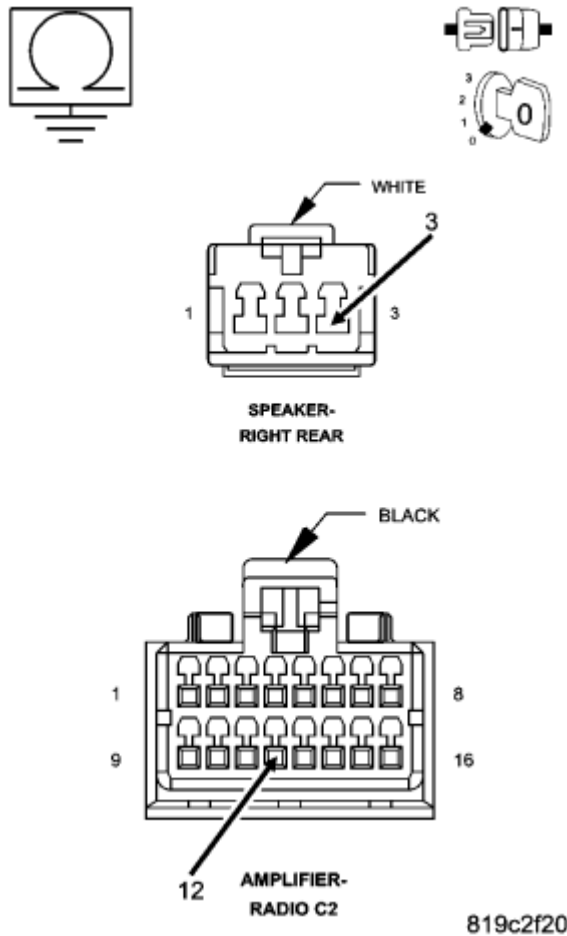
**Yes**

Repair the (X206) Amplified Right Rear Speaker (+) circuit for a short to ground.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X296) AMPLIFIED RIGHT REAR SPEAKER (-) CIRCUIT FOR A SHORT TO GROUND**



**Fig. 103: Measuring Resistance Between Ground And (X296) Amplified Right Rear Speaker (-) Circuit**

Courtesy of CHRYSLER LLC

Measure the resistance between ground and the (X296) Amplified Right Rear Speaker (-) circuit.

**Is the resistance below 10K ohms?**

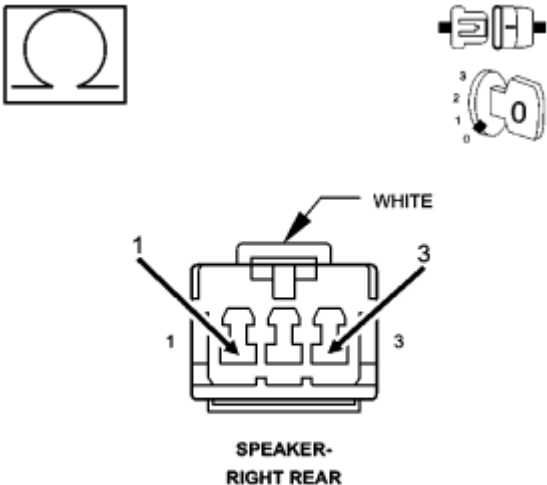
**Yes**

Repair the (X296) Amplified Right Rear Speaker (-) for a short to ground.  
Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 4).

#### 4) CHECK OPERATION OF THE AMPLIFIED RIGHT REAR SPEAKER



819c2f24

**Fig. 104: Measuring Resistance Of Speaker Circuit Between Amplifier C2 Harness Connector And Ground**

Courtesy of CHRYSLER LLC

Reconnect and reinstall the Right Rear Speaker.

Measure the resistance of the speaker circuit between the Amplifier C2 harness connector and ground.

**Is the resistance below 10K ohms?**

**Yes**

Replace the Right Rear Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

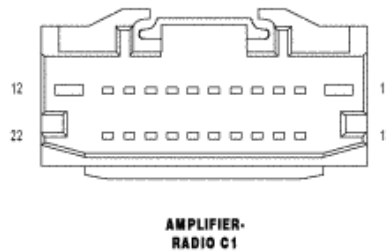
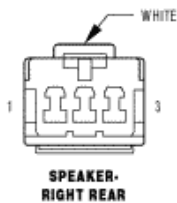
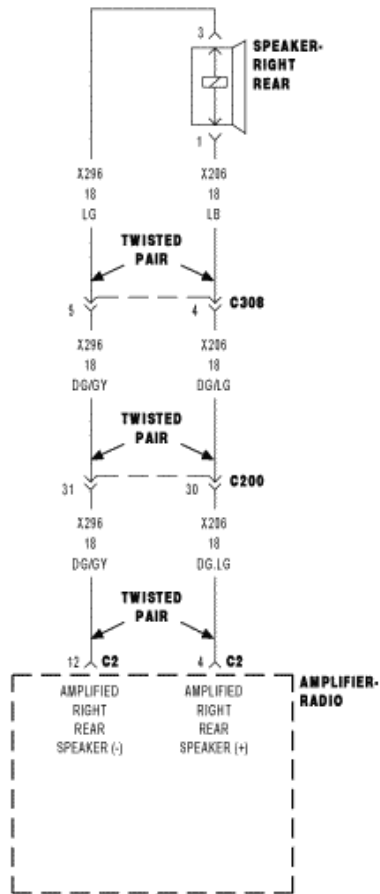
Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B147B-CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT HIGH**

# 2007 Dodge Nitro R/T

## 2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro



819C206

**Fig. 105: Channel 6 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

## 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

With the ignition on.

### Set Condition:

The amplifier detects a short to battery condition on the output circuit.

### Possible Causes

(X206) AMPLIFIED RIGHT REAR SPEAKER (+) CIRCUIT SHORT TO VOLTAGE  
(X296) AMPLIFIED RIGHT REAR SPEAKER (-) CIRCUIT SHORT TO VOLTAGE  
AMPLIFIER

### Diagnostic Test

#### 1) CHECK FOR AN INTERMITTENT CONDITION

Turn the ignition on, then off, and then on again.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B147B-CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT HIGH?**

**Yes**

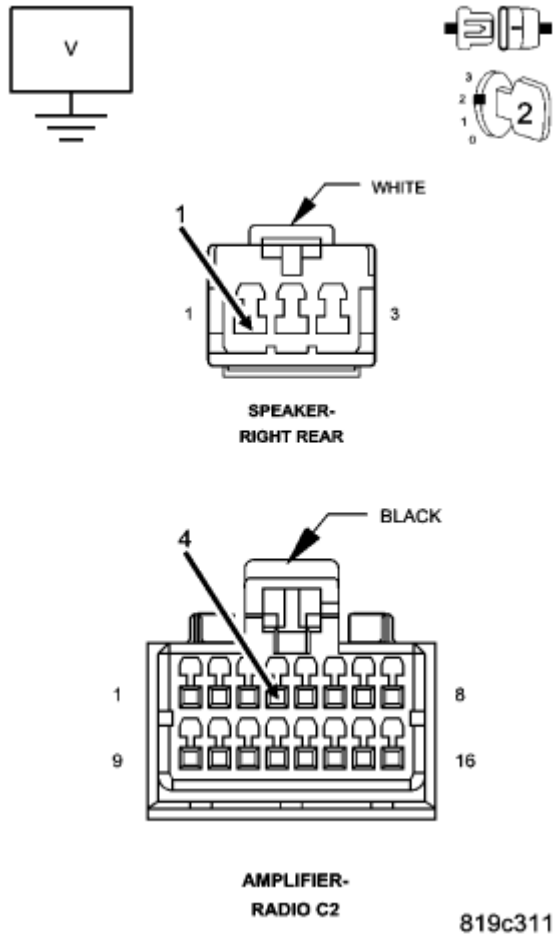
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK FOR VOLTAGE ON THE (X206) AMPLIFIED RIGHT REAR SPEAKER (+) CIRCUIT**



819c3111

**Fig. 106: Measuring For Voltage On (X206) Amplified Right Rear Speaker (+) Circuit**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Disconnect the Amplified Right Rear Speaker harness connector.

Turn the ignition on.

Measure for voltage on the (X206) Amplified Right Rear Speaker (+) circuit.

**Is the voltage above 10.0 volts?**

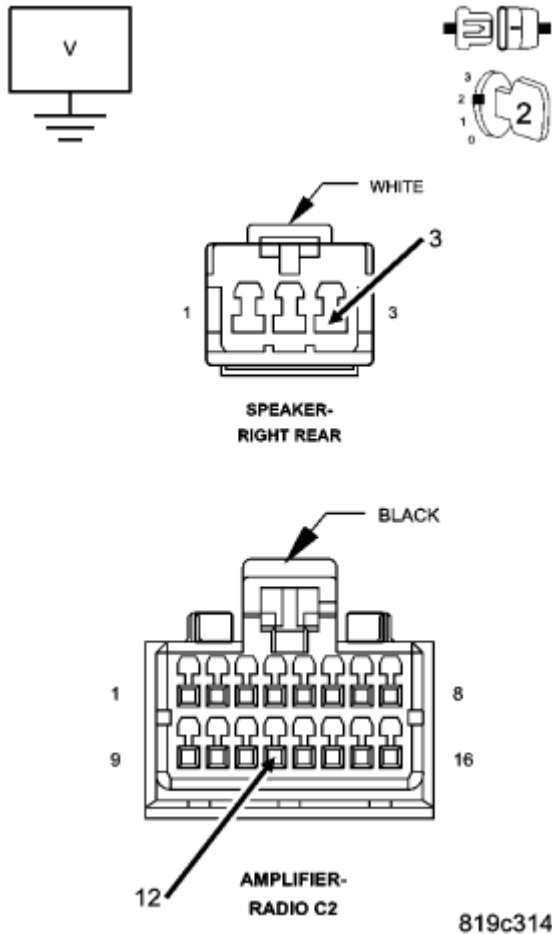
**Yes**

Repair the (X206) Amplified Right Rear Speaker (+) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

Go to 3).

**3) CHECK FOR VOLTAGE ON THE (X296) AMPLIFIED RIGHT REAR SPEAKER (-) CIRCUIT**



**Fig. 107: Measuring For Voltage On (X296) Amplified Right Rear Speaker (-) Circuit**  
 Courtesy of CHRYSLER LLC

Measure for voltage on the (X296) Amplified Right Rear Speaker (-) circuit.

**Is the voltage above 10.0 volts?**

Yes

Repair the (X296) Amplified Right Rear Speaker (-) circuit for a short to voltage.  
 Perform **BODY VERIFICATION TEST - VER 1** .

No

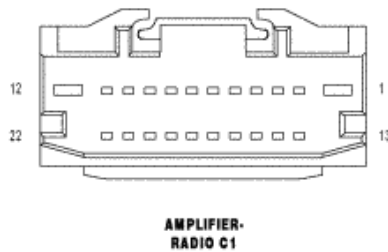
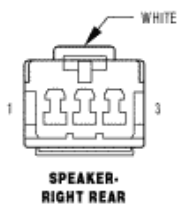
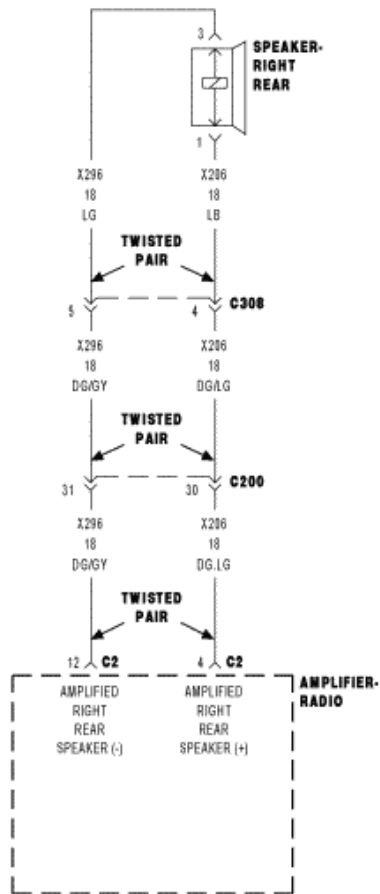
# 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1**.

## B147C-CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT OPEN





**Fig. 108: Channel 6 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

Amplifier BUS wake-up. Amplifier reset with scan tool.

**Set Condition:**

The amplifier detects an open condition on the speaker output circuit.

Possible Causes
(X206) AMPLIFIED RIGHT REAR SPEAKER (+) CIRCUIT OPEN
(X296) AMPLIFIED RIGHT REAR SPEAKER (-) CIRCUIT OPEN
RIGHT REAR SPEAKER
AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on.

Turn the radio on.

With the scan tool, erase Amplifier DTCs.

With the scan tool, reset the amplifier.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B147C-CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT OPEN?**

**Yes**

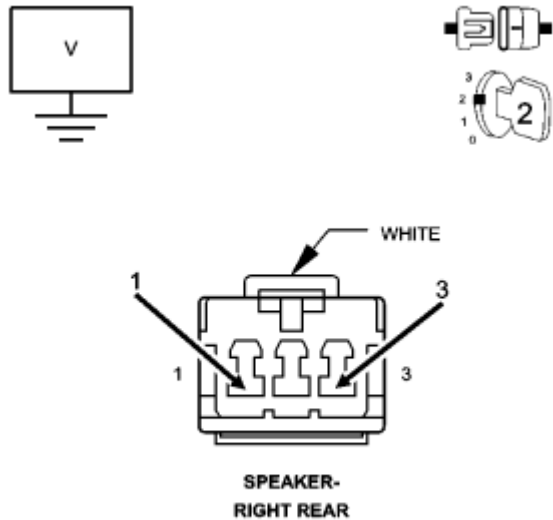
Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE RIGHT REAR SPEAKER**



819c315a

**Fig. 109: Measuring Voltage Of Amplified Right Rear Speaker Circuits In Amplified Right Rear Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Right Rear Speaker harness connector.

Turn the ignition on.

Turn the radio on and turn the volume to mid level.

With a voltmeter set to read in A/C voltage, measure the voltage of the Amplified Right Rear Speaker circuits in the Amplified Right Rear Speaker harness connector.

**Is the voltage present greater than 1 volt?**

**Yes**

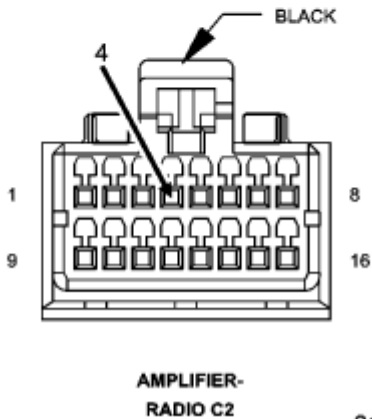
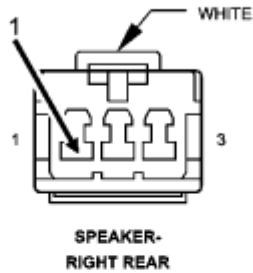
Replace the Amplified Right Rear Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X206) AMPLIFIED RIGHT REAR SPEAKER (+) CIRCUIT FOR AN OPEN**



819c317b

**Fig. 110: Measuring Resistance Of (X206) Amplified Right Rear Speaker (+) Circuit Between Amplifier C2 Harness Connector And Amplified Right Rear Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Turn the ignition off.

Disconnect the Amplifier C2 harness connector.

Measure the resistance of the (X206) Amplified Right Rear Speaker (+) circuit between the Amplifier C2 harness connector and the Amplified Right Rear Speaker harness connector.

**Is the resistance below 5.0 ohms?**

**Yes**

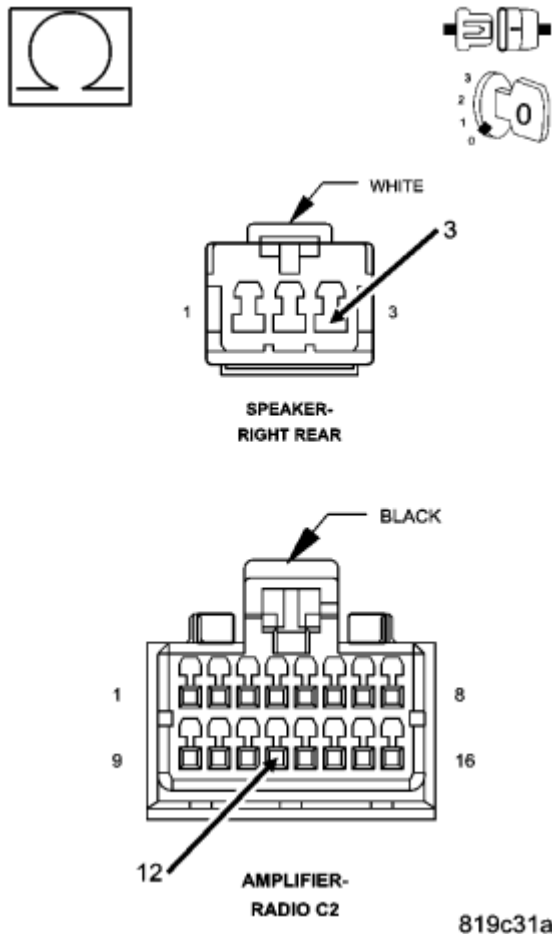
Go to 4).

**No**

Repair the (X206) Amplified Right Rear Speaker (+) circuit for an open.

Perform **BODY VERIFICATION TEST - VER 1** .

4) CHECK THE (X296) AMPLIFIED RIGHT REAR SPEAKER (-) CIRCUIT FOR AN OPEN



**Fig. 111: Measuring Resistance Of (X296) Amplified Right Rear Speaker (-) Circuit Between Amplifier C2 Harness Connector And Amplified Right Rear Speaker Harness Connector**  
 Courtesy of CHRYSLER LLC

Measure the resistance of the (X296) Amplified Right Rear Speaker (-) circuit between the Amplifier C2 harness connector and the Amplified Right Rear Speaker harness connector.

Is the resistance below 5.0 ohms?

Yes

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

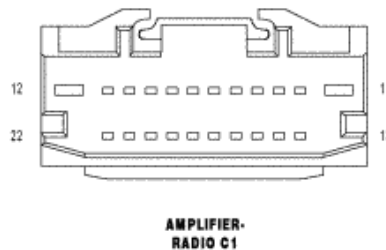
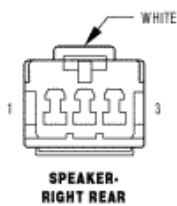
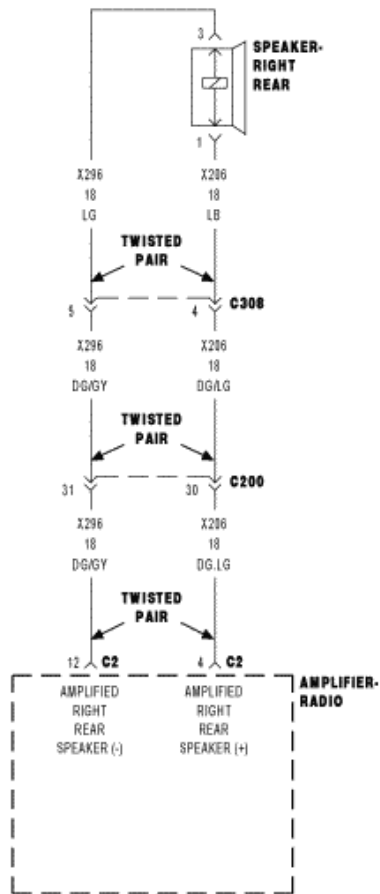
No

# 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

Repair the (X296) Amplified Right Rear Speaker (-) circuit for an open.  
Perform **BODY VERIFICATION TEST - VER 1**.

## B147D-CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER



**Fig. 112: Channel 6 Audio Speaker Output Circuit Schematic**  
 Courtesy of CHRYSLER LLC

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on. Radio volume at 25 or higher.

**Set Condition:**

The amplifier detects that the output circuits are shorted together.

Possible Causes
(X206) AMPLIFIED RIGHT REAR SPEAKER (+) CIRCUIT SHORTED TO THE (X296) AMPLIFIED RIGHT REAR SPEAKER (-) CIRCUIT AMPLIFIED RIGHT REAR SPEAKER AMPLIFIER

**Diagnostic Test**

**1) CHECK FOR AN INTERMITTENT CONDITION**

Turn the ignition on, then off, and then on again.

With the scan tool, clear Amplifier DTCs.

Turn the radio on.

Turn the volume level to 25.

With the scan tool, read Amplifier DTCs.

**Does the scan tool display active: B147D-CHANNEL 6 AUDIO SPEAKER OUTPUT CIRCUIT SHORTED TOGETHER?**

**Yes**

Go to 2).

**No**

The condition that caused this symptom is currently not present. Check for an intermittent condition by inspecting the related wiring harness for chafed, pierced, pinched, and partially broken wires. Also, inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals. Repair as necessary.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK THE OPERATION OF THE AMPLIFIED RIGHT REAR SPEAKER**

Turn the ignition off.

Disconnect the Amplified Right Rear Speaker.

Measure the resistance of the speaker between the two terminals.

**Is the resistance of the speaker less than 1 ohm?**

**Yes**

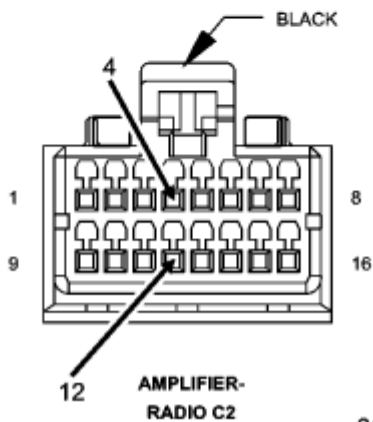
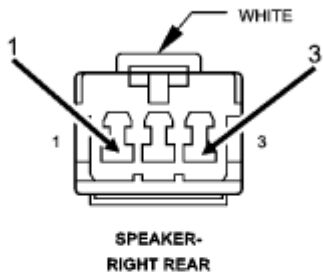
Replace the Amplified Right Rear Speaker in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Go to 3).

**3) CHECK THE (X206) AMPLIFIED RIGHT REAR SPEAKER (+) CIRCUIT, AND THE (X296) AMPLIFIED RIGHT REAR SPEAKER (-) CIRCUITS FOR A SHORT TOGETHER**



**Fig. 113: Measuring Resistance Between (X206) Amplified Right Rear Speaker (+) Circuit And (X296) Amplified Right Rear Speaker (-) Circuit**

Courtesy of CHRYSLER LLC

Disconnect the Amplifier C2 harness connector.

Measure the resistance between the (X206) Amplified Right Rear Speaker (+) circuit, and the (X296) Amplified Right Rear Speaker (-) circuit.

**Is the resistance below 10K ohms?**

**Yes**

Repair the (X206) Amplified Right Rear Speaker (+) circuit, and the (X296) Amplified Right Rear Speaker (-) circuit for a short together.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Replace the amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**B2222-SATELLITE RADIO RECEIVER INTERNAL**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

With the ignition on.

**Set Condition:**

The Satellite Radio Receiver detects a software checksum test failure.

Possible Causes
SATELLITE RADIO RECEIVER

**Diagnostic Test****1) REPLACE THE SATELLITE RADIO RECEIVER**

When this code is set, the Satellite Radio must be replaced.

**Repair**

Replace the Satellite Radio Receiver in accordance with the Service Information. Refer to **STANDARD PROCEDURE** .



## 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Audio/Video Systems - Electrical Diagnostics - Nitro

### B222B-VEHICLE ENTERTAINMENT SYSTEM INTERNAL

For complete wiring diagrams refer to [SYSTEM WIRING DIAGRAMS](#) article.

#### When Monitored:

With the ignition on.

#### Set Condition:

The DVD Player detects an internal failure.

Possible Causes
DVD PLAYER

#### Diagnostic Test

##### 1) DVD PLAYER

If DTC: B222B-VEHICLE ENTERTAINMENT SYSTEM INTERNAL is active, view repair.

#### Repair

Replace the DVD Player in accordance with the service information.

Perform [BODY VERIFICATION TEST - VER 1](#) .

### U0019-CAN INTERIOR BUS(+)/(-) CIRCUIT

For complete wiring diagrams refer to [SYSTEM WIRING DIAGRAMS](#) article.

#### When Monitored:

Continuously.

#### Set Condition:

Whenever the CAN INTERIOR BUS (+) or INTERIOR BUS (-) circuit is open, shorted to voltage or shorted to ground, this code will set.

Possible Causes
CAN INTERIOR BUS DTCs IN THE TOTALLY INTEGRATED POWER MODULE (D264) CAN INTERIOR BUS (-) CIRCUIT OPEN (D265) CAN INTERIOR BUS (+) CIRCUIT OPEN AMPLIFIER

#### Diagnostic Test

##### 1) TEST FOR INTERMITTENT CONDITION

Turn the ignition on.

With the scan tool, record and erase DTCs.

Cycle the ignition from on to off 3 times.

Turn the ignition on.

With the scan tool, read DTCs.

**Does the scan tool display: U0019-CAN INTERIOR BUS CIRCUIT?**

**Yes**

Go to 2).

**No**

The conditions that caused this code to set are not present at this time. Using the wiring diagram/schematic as a guide, inspect the wiring and connectors.

Perform **BODY VERIFICATION TEST - VER 1** .

**2) CHECK TOTALLY INTEGRATED POWER MODULE DTCs**

With the scan tool, read Totally Integrated Power Module DTCs

**Does the scan tool display any CAN INTERIOR BUS DTCs - ACTIVE?**

**Yes**

Refer to the symptom list for problems related to Communication in the **ELECTRONIC CONTROL MODULES - ELECTRICAL DIAGNOSTICS** article .

**No**

Go to 3).

**3) CAN INTERIOR BUS (+) CIRCUIT OPEN**

Turn the ignition off.

Disconnect the Amplifier C1 harness connector.

Disconnect the Totally Integrated Power Module C7 harness connector.

Measure the resistance of the (D265) CAN INTERIOR BUS (+) circuit between the Totally Integrated Power Module C7 harness connector and the Amplifier C1 harness connector.

**Is the resistance below 2.0 ohms?**

**Yes**

Go to 4).

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Repair the CAN INTERIOR BUS (+) circuit for an open.

Perform **BODY VERIFICATION TEST - VER 1** .

**4) CAN INTERIOR BUS (-) CIRCUIT OPEN**

Measure the resistance of the (D264) CAN INTERIOR BUS (-) circuit between the Totally Integrated Power Module C7 harness connector and the Amplifier C1 harness connector.

**Is the resistance below 2.0 ohms?**

**Yes**

Replace the Amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Repair the CAN INTERIOR BUS (-) circuit for an open.

Perform **BODY VERIFICATION TEST - VER 1** .

**U0020-CAN INTERIOR BUS OFF PERFORMANCE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

**When Monitored:**

Continuously.

**Set Condition:**

Whenever the CAN INTERIOR BUS (+) or INTERIOR BUS (-) circuit is open, shorted to voltage or shorted to ground, this code will set.

**Possible Causes**

CAN INTERIOR BUS DTCs IN THE TOTALLY INTEGRATED POWER MODULE  
(D264) CAN INTERIOR BUS (-) CIRCUIT OPEN  
(D265) CAN INTERIOR BUS (+) CIRCUIT OPEN  
AMPLIFIER

### 1) TEST FOR INTERMITTENT CONDITION

Turn the ignition on.

With the scan tool, record and erase DTCs.

Cycle the ignition from on to off 3 times.

Turn the ignition on.

With the scan tool, read DTCs.

**Does the scan tool display: U0020-CAN INTERIOR BUS OFF PERFORMANCE?**

**Yes**

Go to 2).

**No**

The conditions that caused this code to set are not present at this time. Using the wiring diagram/schematic as a guide, inspect the wiring and connectors.

Perform **BODY VERIFICATION TEST - VER 1** .

### 2) CHECK FRONT CONTROL MODULE DTCs

With the scan tool, read Totally Integrated Power Module DTCs.

**Does the scan tool display any CAN INTERIOR BUS DTCs - ACTIVE?**

**Yes**

Refer to the symptom list for problems related to Communication in the **ELECTRONIC CONTROL MODULES - ELECTRICAL DIAGNOSTICS** article .

**No**

Go to 3).

### 3) CAN INTERIOR BUS (+) CIRCUIT OPEN

Turn the ignition off.

Disconnect the Amplifier C1 harness connector.

Disconnect the Totally Integrated Power Module C7 harness connector.

Measure the resistance of the (D265) CAN INTERIOR BUS (+) circuit between the Totally Integrated

Power module C7 harness connector and the Amplifier C1 harness connector.

**Is the resistance below 2.0 ohms?**

**Yes**

Go to 4).

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Repair the CAN INTERIOR BUS (+) circuit for an open.

Perform **BODY VERIFICATION TEST - VER 1** .

#### **4) CAN INTERIOR BUS (-) CIRCUIT OPEN**

Measure the resistance of the (D264) CAN INTERIOR BUS (-) circuit between the Totally Integrated Power Module C7 harness connector and the Amplifier C1 harness connector.

**Is the resistance below 2.0 ohms?**

**Yes**

Replace the Amplifier in accordance with the service information.

Perform **BODY VERIFICATION TEST - VER 1** .

**No**

Repair the CAN INTERIOR BUS (-) circuit for an open.

Perform **BODY VERIFICATION TEST - VER 1** .

#### **U0151-LOST COMMUNICATION WITH OCCUPANT RESTRAINT CONTROLLER**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

Refer to **DIAGNOSIS AND TESTING** for the diagnostic test procedure.

#### **U0154-LOST COMMUNICATION WITH OCCUPANT CLASSIFICATION MODULE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

Refer to **DIAGNOSIS AND TESTING** for the diagnostic test procedure.

#### **U0184-LOST COMMUNICATION WITH RADIO**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

Refer to **DIAGNOSIS AND TESTING** for the diagnostic test procedure.

**U0186-LOST COMMUNICATION WITH AUDIO AMPLIFIER**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

Refer to **DIAGNOSIS AND TESTING** for the diagnostic test procedure.

**U0195-LOST COMMUNICATION WITH SDAR**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

Refer to **DIAGNOSIS AND TESTING** for the diagnostic test procedure.

**U0197-LOST COMMUNICATION WITH HANDS FREE MODULE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

Refer to **DIAGNOSIS AND TESTING** for the diagnostic test procedure.

**U0199-LOST COMMUNICATION WITH DRIVERS DOOR MODULE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

Refer to **DIAGNOSIS AND TESTING** for the diagnostic test procedure.

**U0200-LOST COMMUNICATION WITH PASSENGER DOOR MODULE**

For complete wiring diagrams refer to **SYSTEM WIRING DIAGRAMS** article.

Refer to **DIAGNOSIS AND TESTING** for the diagnostic test procedure.