

**Toyota Prius 2011 - Dual Player Headrest Video**

**Part Number: 00016-47210-01; 04; 11**

**Code : EH5**



**ATTENTION: SECURITY COVERS ARE NO LONGER INCLUDED IN THE HEADREST KITS AS OF 01/17/2011**

## Conflicts

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**Kit Contents**

Item #	Quantity Req'd.	Description
1	2	Headrest Assembly
2	2	Remote Control
3	2	Cables #3
4	1	Power Cord #9
5	1	Bag with Storage Straps
6	1	Metal Wire Puller
7	1	Owner's Manual
9	2	IR Headphones
10	8	AAA Batteries
11	1	Control Box
12	1	Hardware Bag
13	1	Fm Antenna
14	4	Cable Clamps

**Hardware Bag Contents**

Item #	Quantity Req'd.	Description
1	2	Red T-taps
2	2	10" Wire Ties
3	12	6" Wire Ties
4	1	4" x 8" Foam Tape
5	1	3"x1/2" Two Side Tape

**Recommended Tools**

<b>Safety Tools</b>	
Seat/Floor Covers	Blankets
<b>Installation Tools</b>	
10mm Box end wrench	Pliers
Nylon Removal Tool	Wire Cutters
10mm Socket	Ratchet
12mm Socket	Nylon Removal Tool NRT
<b>Special Tools</b>	
Torque Wrench 48in/lbs	
<b>Special Chemicals</b>	

**Color Applicability/Trim Level**

	Accessory Color	Dark Gray 00016-47210-11	Misty Gray 00016-47210-01	Bisque 00016-47210-04		
Vehicle Trim Color						
Dark Gray		X				
Misty Gray			X			
Bisque				X		

**General Applicability**

Prius
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**Legend**

- STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.
- OPERATOR SAFETY:** Use caution to avoid risk of injury.
- CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.
- TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this process.
- REVISION MARK:** This mark highlights a change in installation with respect to previous issue.
- SAFETY TORQUE:** This mark indicates that torque is related to safety.

**SPECIAL NOTE: Installation Sequences**

After TMS and Safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances the suggested sequence is written for one associate to install and in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality.

**A. Pre-installation Precaution**



1. Use Seat and Floor Protectors to avoid damage to surfaces.
2. If the vehicle is equipped with an Anti-theft radio, the radio code must be written down prior to disconnecting the battery cable. The code must be re-entered when the negative battery cable is reinstalled. Disconnecting the battery may cause certain vehicle settings to be lost. Manufacture’s recommendations for the battery removal should be followed. Disconnecting the battery is recommended.

**B. Battery disconnect**

1. Open rear deck lid.
2. Unlock rear cargo compartment cover locks by twisting. (Figure B2)
3. Lift out compartment cover. (Figure B3)
4. Lift out storage tray from handle at rear. (Figure B4)
5. Unsnap rear right hand side cover with hands. (Figure B5)
6. Lift out cover and remove from vehicle. (Figure B6)

Figure B2



Figure B3



Figure B4




Figure B5



Figure B6





7. Loosen negative battery cable with a 10mm box end wrench and remove cable. Remove bolt from clamp and re-install from opposite side. (Figure B7) 

**C. Vehicle disassembly**


1. Remove the forward inside kick panel from each side of the center console. (Figure C1)
2. Use a NRT to pry the power point bezel from inside the forward center console. Access backside. (Figure C2a,C2b) 
3. Lift cup holder from center console box. (Figure C3)

Figure B7



Figure C1



Figure C2a



Figure C2b




Figure C3




4. Lift carpet from center console box.

(Figure C4)

5. Use a NRT to pry the upper console panel

from the center console box. (Figure C5) 

6. Remove 5 bolts from the center console box

using 10mm socket. (Figure C6) 

7. Slide the console box back away from the

forward console. (Figure C7)

8. Disconnect the electrical connector from the

console box. (Figure C8)

Figure C4



Figure C5



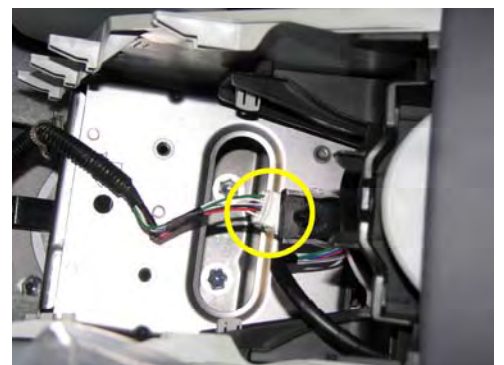
Figure C6



Figure C7



Figure C8





9. Remove console box from vehicle.

(Figure C9)

10. Remove head rest from each front seat.

Press the release button on the left side post while lifting up on the head rest. (Figure C10)

11. On each front seat, unzip the rear side zippers and release the elastic strap from the bottom. (Figure C11)

**12. Vehicles with OE XM Satellite**

Remove the two 12mm bolts that secure the satellite module in place below the front side of the driver seat. Rotate the module and bracket toward the back of the car slightly.


(Figure C12a, C12b) 

Figure C9



Figure C10

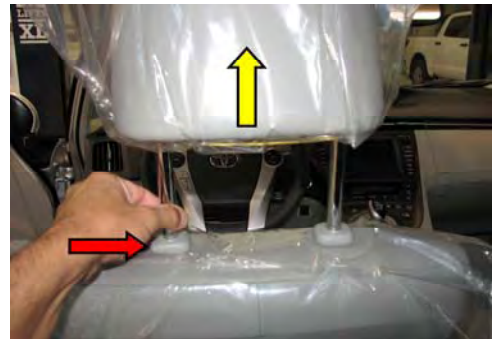


Figure C11

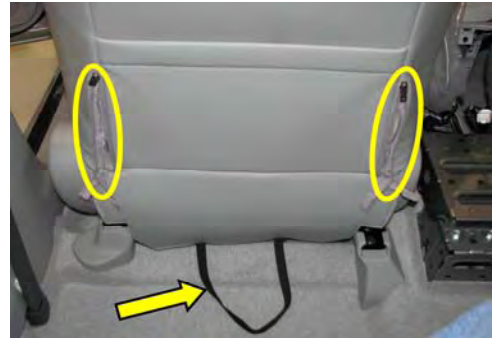


Figure C12a



Figure C12b



**D. Mount control box**

1. Make all connections to the control box using color coded connections including antenna and power harness. (Figure D1)
2. Adhere the foam tape to the control box as shown in the picture. Do not wrap around the control box. (Figure D2)
3. Place the control box in the void area where the two inside kick panels were removed. Use the overhanging foam tape too secure the control box too the floor. (Figure D3)

**E. Install headrest cables**

1. Slide the front seat all the way back. With the headrest cable draped outside the console area, feed cable end 3A (Red / White) below the carpet from the console box area below the driver side seat. Exit the opening in the carpet behind the front inside seat support. (Figure E1a,E1b)

Figure D1

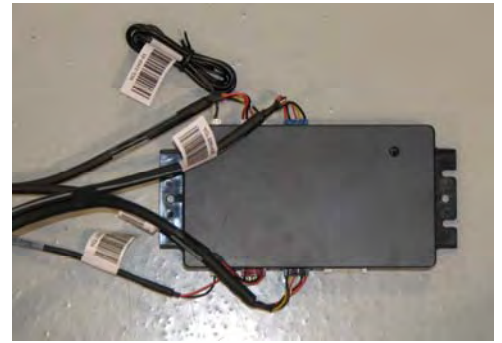


Figure D2

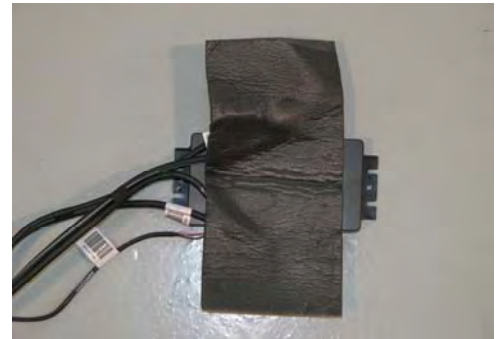


Figure D3



Figure E1a



Figure E1b



2. Route the cable end across the carpet opening exiting along side the factor cable conduit. Leave about 6-7 inches of cable protruding. (Figure E2)

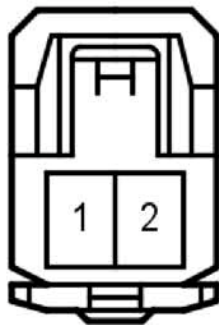
3. Pull the plastic edge of the forward console slightly away from the carpet and begin to tuck the draped cable behind it. Work from the seat toward the front of the car. (Figure E3)

4. Continue to tuck the cable until exits at the front of the console near the control box. (Figure E4)

5. Repeat steps 1-4 on passenger side with cable 3B (Blue/ Black)

**F. Install power wiring**

1. With pliers apply one red T-Tap to each wire from connector L24.



**Connector L24**

Figure E2

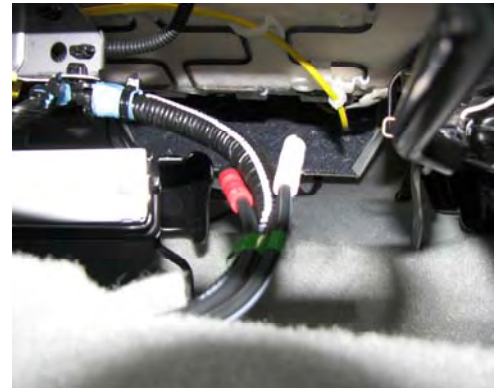


Figure E3



Figure E4



Figure F1





2. Route the power cable ends and fuse holder from the control box toward the L24 connector. (Figure F2)

3. From the power harness connect the red wire too pin #1(black of L24) and the black wire too pin #2(white/black of L24). (Figure F3)

4. Use a wire tie to secure the fuse holder too the L24 harness to keep from rattling. (Figure F4)



5. Use a wire tie to bundle any excess head rest cable and power cable neatly beside the control box. Be certain to gather all slack from headrest cables to avoid any loose cables. (Figure F5)

**G. Install video headrests**

1. Insert cables #1A and #2A into the appropriate headrest post holes of the driver's seat. (Figure G1)

Figure F2



Figure F3



Figure F4



Figure F5



Figure G1





2. Continue to route cables into seat until headrest is in its highest locking position. (Figure G2)
3. Pull cables too exit through the inboard side zipper. (Figure G3)
4. Feed cable ends through the flap section of the seat back and pull through. (Figure F4)
5. Connect cables # 1A and # 2A to cable # 3A. (Figure F5)
6. Snap cable clamp around each connection point between cables # 1A and # 2A to cable # 3A. Apply a wire tie to each strain relief. (Figure F6)

Figure G2



Figure G3



Figure F4



Figure F5

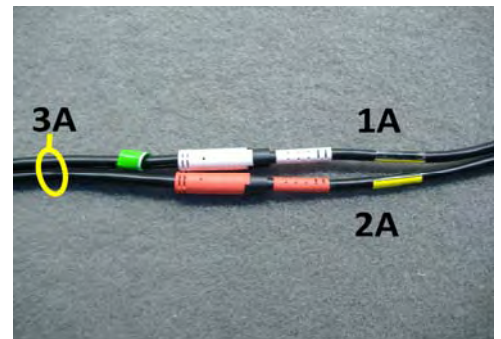
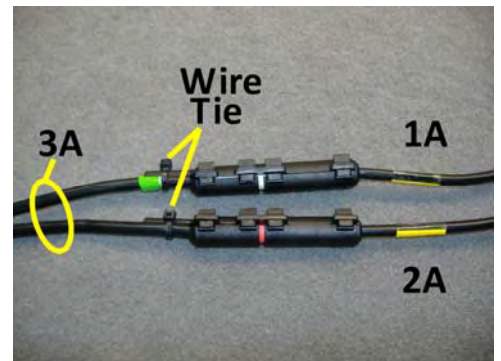


Figure F6



**7.** Wrap foam tape around each cable clamp.

(Figure F7)

**8.** Secure cable to the factory wiring below the seat with 4 wire ties as indicated in the picture.

(Figure F8)

**9.** Verify motion of seat travel. Check that cables are clear of seat tracks and that they move freely with the seat without any stress.

**10.** Repeat steps 1-9 with cables # 1B, # 2B, and # 3B on the passenger side seat.

**11.** Trim all wire ties used throughout installation


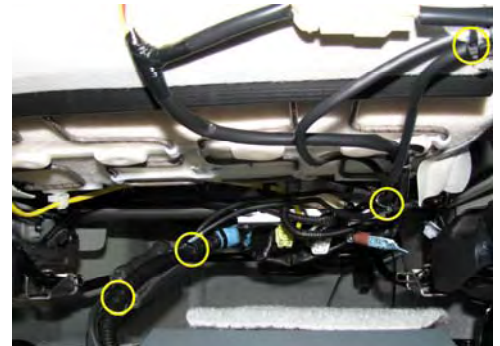
flush with a pair of wire cutters. 

Figure F7



Figure F8



**H. Reassemble trim and battery**

1. Reassemble trim and battery by reversing sections B and C. Secure battery terminal to 48 in / lbs of torque.

**I. Complete installation**

1. Install 2 AAA batteries in each remote control.
2. Install 2 AAA batteries in each wireless headphone headset.
3. Test system following steps on following page.
4. After testing, store owners manual in glove box. Store headphones, remotes and storage strap bag on the floor of the rear hatch compartment. (Figure I4)

Figure I4



**VEHICLE FUNCTION CHECK**

AFTER ALL PANELS, COVERS, AND COMPONENTS HAVE BEEN REINSTALLED, THAT WERE REMOVED, TEST THOROUGHLY, ALL MECHANICAL AND ELECTRICAL COMPONENTS DISCONNECTED AND OR REMOVED FROM THE VEHICLE DURING THE INSTALLATION OF THIS ACCESSORY.



### **Functional Verification: Check:**

Accessory Function checks:

Turn vehicle ignition to ON, depress power button on each headrest monitor.

Insert DVD into monitor, press enter.

Listen with wireless headphones (be sure to set to channel "A" to listen to monitor "A" and channel "B" to listen to monitor "B").

Depress "eject" button.

Select Sound Around button on remote to turn on the FM transmitter. Turn on vehicle radio and set station to station selected on FM transmitter.

### **Look For:**

Monitor should power on, start up screen should appear onscreen.

DVD should begin playing

Audio should be heard through vehicle headphones.

Disc should eject.

Audio from monitor "A" should be heard through vehicle speakers.

Note: The driver and passenger seats may not retract without assistance once the headrest DVD's are installed.

## **Video Entertainment System Troubleshooting Hints**

### **Schematic Reference: Video System Schematics**

- Many conditions that affect video system operation may be corrected without removing the DVD Headrest Assembly or the DVD Control Box Assembly. Make sure to understand all features of system operation before beginning the diagnosis of the system. Verify the condition and follow the diagnostic procedures in order to isolate and correct the condition.
- Be sure the vehicle battery is fully charged before beginning video entertainment system diagnosis

### **Video or Audio Distortion**

The manufacturing process for producing DVD's does not have the same quality control processes in place that compact disk manufacturing does. If there are video or audio quality problems with an individual DVD, try playing that disk in another DVD player. If the quality is poor for both players, return the disk to the place of purchase and request an exchange. If the quality problem is only seen in one of the players, examine the disk for scratches, dirt, or smudges and attempt to clean the disk with one of the disk cleaning systems that are commercially available.

Video or audio distortion during auxiliary playback can often be attributed to the DC to AC inverter that is used to power the auxiliary device. The power inverters tend to introduce noisy signals into the vehicle electrical system.

### **DVD Player Inoperative (Power LED Not Illuminated)**

**Important:** The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition.

1. The ignition is not turned on. Turn the ignition on.
2. DVD Jumper Harness not connected to vehicle. Verify Accessory Power and Ground.
3. DVD Jumper Harness not connected to Power Cord #9. Verify Accessory Power and Ground.
4. Cable 1A (Red Cable) not connected to Cable 3A (if not receiving power to Monitor A – Driver Side) or Cable 1B (Black Cable) not connected to Cable 3B (if not receiving power to Monitor B – Passenger Side). Make sure cables are connected.
5. Cable 3A (if not receiving power to Monitor A – Driver Side) not connected to Control Box or Cable 3B (if not receiving power to Monitor B – Passenger Side) not connected to Control Box. Make sure cables are connected.
6. Power Cord #9 is not connected to Control Box.
7. Check for power at end of Power Cord #9 (white connector 3-way) at Control Box. If power at Control Box – Replace the Control Box.
8. Remove monitor that is not receiving power. Check power at Red Connector (Monitor A – Driver Side) or power at Black Connector (Monitor B – Passenger Side). If power and ground verified at connectors, replace the DVD Electronics (Monitor).

### **DVD Player Inoperative (Power LED Illuminated)**

**Important:** The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition.

1. The DVD Player is not turned on. Press the Power Button to turn unit on.
2. Press the play button. If no disc in unit, NO DISC message appears on display.
3. Insert Disc. If unit does not accept disc, replace the DVD Electronics (Monitor).

### **DVD Display Inoperative (LEDs Illuminate but No Video)**

**Important:** The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition.

1. Verify that the correct source is selected. Monitor A or Monitor B should appear in the upper right hand corner of display.
2. Cable 2A (White Cable) not connected to Cable 3A (if no display on Monitor A – Driver Side) or Cable 2B (Blue Cable) not connected to Cable 3B (if no display on Monitor B – Passenger Side). Make sure cables are connected.
3. Cable 3A (if not receiving power to Monitor A – Driver Side) not connected to Control Box or Cable 3B (if not receiving power to Monitor B – Passenger Side) not connected to Control Box.
4. Remove monitor that is not receiving video. Verify that connectors are connected to the Monitor. If no video displayed, replace the DVD Electronics (Monitor).

### **Cannot Hear Audio Through Vehicle Speakers(FM Transmitter Inoperative)**

**Important:** The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition.

1. FM Transmitter not turned on. Turn on FM Transmitter using the Remote Control. Press the DVD Button (A) on the Remote Control to control Monitor A – Driver Side Headrest. Press the Sound Around On/Off Button. “CH On” should appear on Monitor A display.
2. Radio and DVD Unit are not set to the same FM Frequency. Press the Sound Around Select button to select a frequency (88.3 MHz, 88.7 MHz, 89.1 MHz, 89.5 MHz, 89.9 MHz, or 90.3 MHz). The frequency should appear on Monitor A display in upper right hand corner. Tune the Radio to the frequency selected. If no DVD audio over speakers, verify audio by selecting another radio frequency. Replace the DVD Control Box.

### **Video Entertainment System Wireless Headphone Inoperative**

**Important:** The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition.

1. Volume control on the wireless headphone set is turned all the way down. Adjust the volume control on the headphones.
2. Incorrect Channel Selected. To hear audio from Monitor A– Driver Side select Channel A. To hear audio from Monitor B – Passenger Side select Channel B.
3. Dead batteries or batteries placed incorrectly in the wireless headphone set. Turn on power to the headphone set. If the headset indicator does not turn on, place batteries in correctly or replace the batteries in the headset as needed.
4. Make sure headphone is in line of sight and no obstructions of the Monitor being listened from.
5. Faulty headphone set. Test the operation of the system using a known good headphone set. If operation is OK, replace the faulty headphone set.
6. Inoperative infrared transmitter in the (DVD) Monitor (s)--Replace the DVD Electronics.

### **Video Entertainment System Remote Control Inoperative**

The buttons on the video remote control do not operate the videodisc player but the buttons on the DVD Headrest Monitor Control Panel operate normally.

**Important:** The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition.

1. Press DVD A button to control Monitor A or press DVD B button to control Monitor B.
2. Dead batteries or batteries placed incorrectly in the video remote control. Place batteries in correctly or replace the dead batteries as needed.
3. Faulty remote control. Test the operation of the system using a known good remote control. If operation is OK, replace the faulty remote control.
4. Inoperative infrared transmitter in the (DVD) Monitor (s)--Replace the DVD Electronics.



