Dual Headrest Video

ΤΟΥΟΤΑ **SIENNA**

Part Number: 00016-08130; Bisque 00016-08135; Gray



2011-

Code: EH5

Conflicts:

Kit Contents:

Item #	Qty.	Component Description
1	2	Headrest Assembly
2	2	Cables # 3
3	1	Power Cord # 9
4	1	FM Antenna
5	1	Control Box
6	2	IR Headphones
7	2	Remote Control
8	8	AAA Batteries
9	1	Owners Manual
10	1	Wire Puller
11	1	Hardware Bag
12	4	Cable Clamps w/ Foam Tape

Hardware Bag Contents:

Item #	Qty.	Component Description
1	12	6" Wire Ties
2	2	11" Wire Ties
3	1	4" x 8"Foam Tape
4	2	Double Sided Tape
5	2	Red T-Taps

Additional Items Required For Installation:

Item #	Qty.	Component Description
1		Masking Tape
2		Electrical Tape

Recommended Tools:

Safety Tools	
Seat and Floors Covers	Blankets
Special Tools	
Torque Wrench (36 in/lbs)	
Installation Tools	
10mm Socket	Panel Popper
Ratchet	Wire Cutters
Special Chemicals	
None	

Color Applicability/ Trim Level:

Vehicle Trim Color	Accessory Color	Lt Gray	Bisque	Dk Charcoal
Lt Gray		Х		
Bisque			X	
Dk Charcoal				X

General Applicability:

All Sienna's

Recommended Sequence of Application

Item #	Accessory	
		* Mandatory

LEGEND:

STOP	<u>STOP</u> : Damage to the vehicle may occur. Do not proceed until process has been complied with.		
	OPERATOR SAFETY: Use caution to avoid risk of		
	injury.		
_	CRITICAL PROCESS: Proceed with caution to ensure		
₩/	a quality installation. These points will be audited on a		
v	completed vehicle installation.		
	TOOLS & EQUIPMENT: This calls out the specific		
	tools and equipment required for this process.		
10	REVISION MARK: This mark highlights a change in		
	installation with respect to previous issue.		
\overline{S}	SAFETY TORQUE: This mark indicates that torque is		
\checkmark	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 in any order to make the installation 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 re-installed. Disconnecting the battery may cause certain vehicle settings to be lost. Manufacturer's recommendations for the battery removal should be followed. Disconnecting the battery is recommended.

B. Battery disconnect

1. Remove the NEGATIVE (-) battery terminal

using a 10mm socket/ ratchet before starting any

disassembly. (Figure B1)

C. Disassemble Vehicle Trim

1. Open cup holder tray below A/C controls to

access side of auxiliary face panel.

2. Using a NRT, pry edge of no. 1 switch hole

base to release clips from instrument cluster finish

center panel assembly. (Figure C2)

3. Disconnect electrical connectors. (Figure C3)

4. Remove plastic push pin from the instrument panel finish panel end. Once removed, push panel toward front of vehicle to separate from the

instrument cluster finished lower center panel sub-

assembly. (Figure C4a-b)



DUAL HEADREST VIDEO



Figure C2

Figure B1



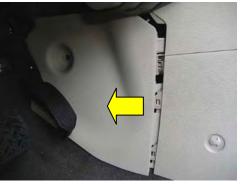
Figure C3

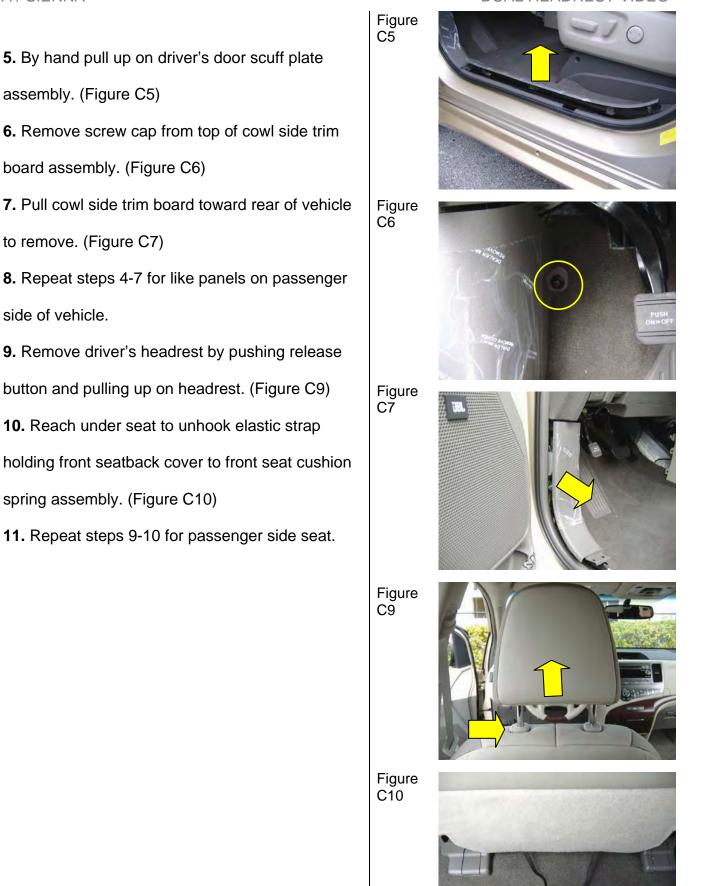












D. Install Video Headrests

1. Insert headrest cables #1A (white) and #2A

(red) into the appropriate headrest support of the driver's seat. (Figure D1)

Continue to feed cables into seat until headrest
 is located in its highest locking position.

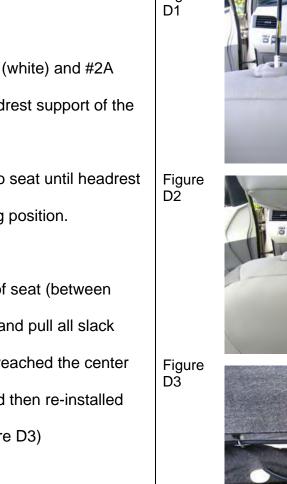
(Figure D2)

3. Retrieve cables at bottom of seat (between middle and inboard hog ring) and pull all slack through. If cables cannot be reached the center hog ring may be taken out and then re-installed once cables are routed. (Figure D3)

E. Mount Control Box

 Make all connections to control box using color coded connectors, including antenna and power cord #9. (Figure E1)

2. Wrap control box in foam tape. (Figure E2)



Figure

DUAL HEADREST VIDEO



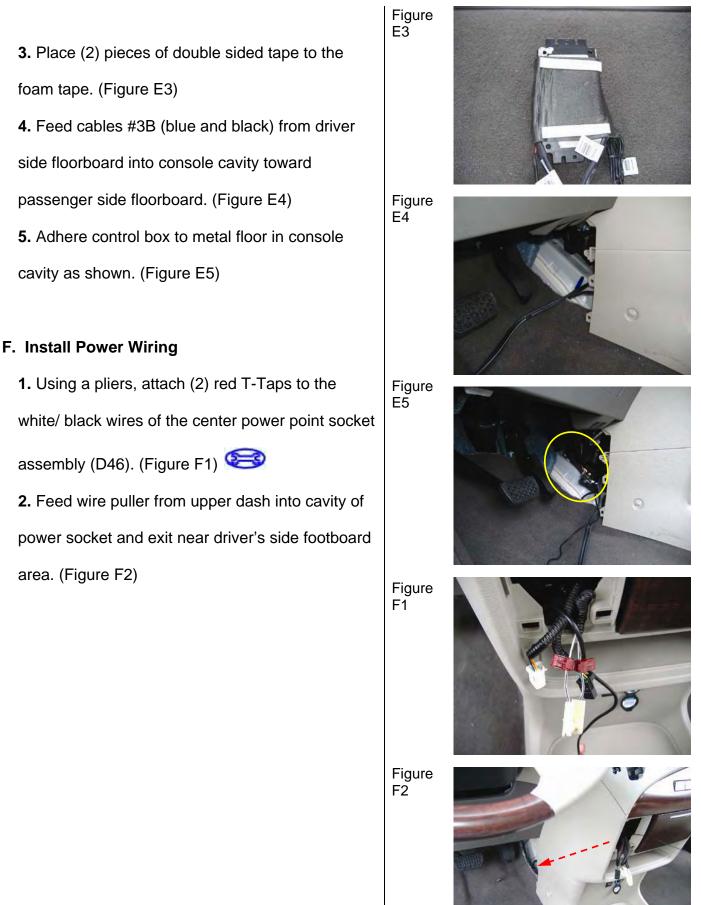
Figure E2

Figure

E1









Figure

F4

3. Attach power cord #9 to wire puller. (Figure F3)

4. Pull wire puller until power cord is exposed.

Remove wire puller. (Figure F4)

5. Connect red wire of power cord #9 to the white black wire (PIN#2), and the black wire of power cord #9 to white/ black (PIN#1). Use caution that the correct wires are connected since they are the



same color. (Figure F5)

wire tie. (Figure F6)



Connector D46

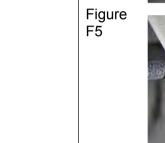
Image shown wire side just below the connector

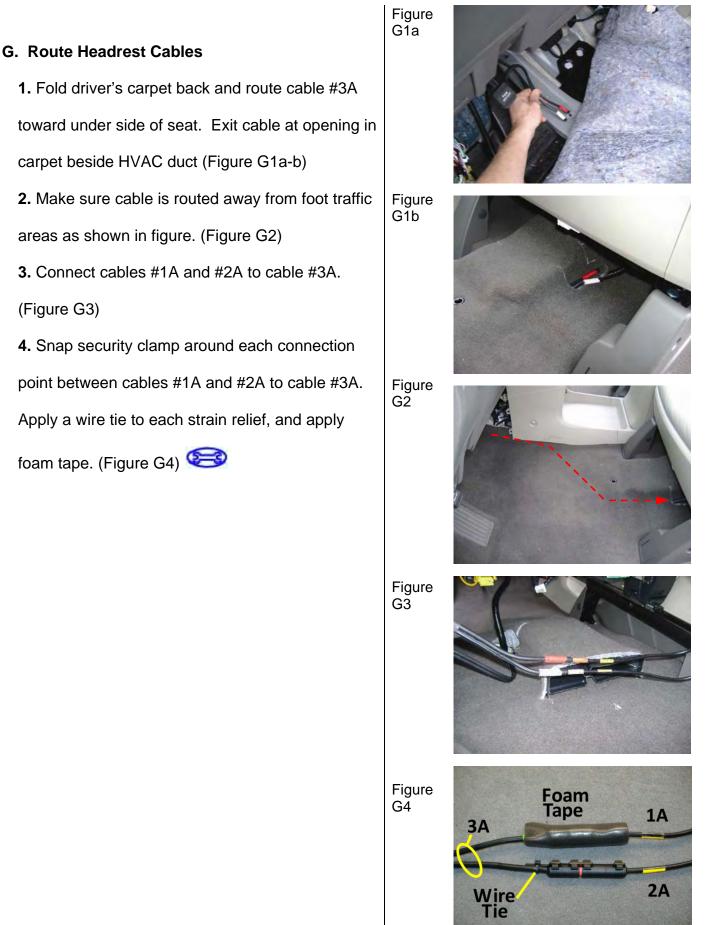
6. Secure fuse holder to factory wiring with (1) 6"



Figure F6







5. Loop cables through white plastic wire hooks (arrows) under seat and secure to factory wiring with (3) wire ties (circles). (Figure G5a-b)
6. Move seat in all directions and test all seat features to ensure cables have appropriate slack and do not get damaged while seat is in motion.
7. Repeat steps 1-6 on passenger side with cables

#1B, #2B and #3B.

H. Complete Installation

1. Make sure vehicles battery is connected to

manufacturer's specifications (36 in/lbs).

2. Install (2) AAA batteries in each remote and headphone set.

 After testing with steps on following pages, carefully re-assemble vehicle by reversing steps in section C.

4. Check all previously disconnected factory

connectors and accessories to ensure they are all connected and operational.

5. Store remotes, owner's manual and headphones in center console, glove box, or seat back pockets. Figure G5a



Figure G5b



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:	Look For:
Turn vehicle ignition to ON, depress power button on each headrest monitor.	Monitor should power on, start up screen should appear onscreen.
Insert DVD into monitor, press enter.	DVD should begin playing
Listen with wireless headphones (be sure to set to channel "A" to listen to monitor "A" and channel "B" to listen to monitor "B").	Audio should be heard through vehicle headphones.
Depress "eject" button.	Disc should eject.
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.	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 connector3-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, or90.3 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.

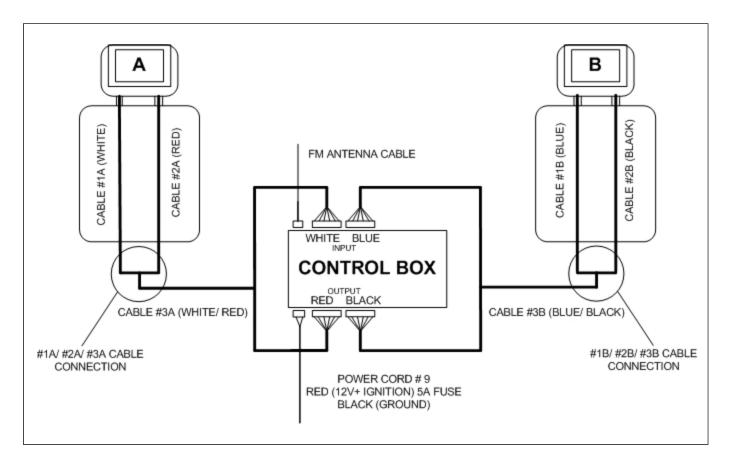
1. Press DVD A button to control Monitor A or press DVD B button to control Monitor B.

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.

Wiring Diagram



Vehicle Power Connection Information

