



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

Color Applicability/ Trim Level:

	Accessory Color	Black	Alabaster	Parchment	Lt Gray
Vehicle Trim Color					
Black		X			
Alabaster			X		
Parchment				X	
Lt Gray					X

General Applicability:

Lexus LS Active

Hardware Bag Contents:

Item #	Qty.	Component Description
1	2	Red T-Taps
2	1	4" X 8" Foam Tape
3	12	6" Wire Ties
4	2	11" Wire Ties
5	4	6mm Rivet Nuts
6	4	M6 X 20mm Bolts

Additional Items Required For Installation:

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

Recommended Tools:

Safety Tools	
Seat/ Floor Covers	Blankets
Special Tools	
Thread Setter 6 x 1.0 Mandrel	
Installation Tools	
10mm Socket/ Ratchet	NRT (Nylon Removal Tool)
# 2 Phillips Screwdriver	Pliers
Wire Cutters	Drill
9mm Drill Bit	Panel Popper
Pencil	Center Punch
Special Chemicals	
None	

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.

CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation.

TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process.

REVISION MARK: This mark highlights a change in installation with respect to previous issue.

INSTRUCTION/ INSTALLATION NOTES:

- After **Safety** mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation.
- When prying panels, use masking tape on all surfaces that a tool may come in contact with to prevent marring.
- After a wire tie is fully fastened, cleanly cut excess wire tie length with a pair of wire cutters.
- The wiring information is on an "as is" basis without any representation or warranty. It is the installer's responsibility to verify any circuit before interfacing with it using a digital multimeter.
- Manufacturer's service documents can be used for any vehicle disassembly that may be depicted differently from what the instruction states.
- Use Wiring Diagram on last page of document to clarify cable or component names.

If technical support is required, please contact Advent Technical Support at 1-800-323-4815.

A. Pre-Installation Precaution



1. Use Seat and Floor protectors to avoid damage to surfaces.



Disconnecting the battery prior to any ground or harness removal/ tapping to prevent possible vehicle damage is recommended. The battery may be temporarily reconnected and disconnected throughout the installation process to perform various tasks. However prior to doing so all connectors and harnesses must be reassembled and reconnected. Once tasks are completed disconnect battery until installation is complete and DVD system is ready to be tested. After testing, the vehicles interior may be re-assembled. If the vehicle is equipped with an Anti-theft radio, the 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.

B. Disassemble Vehicle Trim


1. Disengage large J hook holding the front seat back board cover sub-assembly to underside of front passenger seat. (Figure B1)
2. Remove (2) screws located at the bottom of the front seat back board sub-assembly, below the front seat back board cover sub-assembly using # 2 Phillips screwdriver. (Figure B2) 
3. Pull outward on bottom corners of seatback board sub-assembly to clear hinge cover panels, then down to partially remove and expose electrical connector. (Figure B3)
4. Disconnect electrical connector and wire loom clip then remove panel from vehicle. (Figure B4)

Figure B1



Figure B2

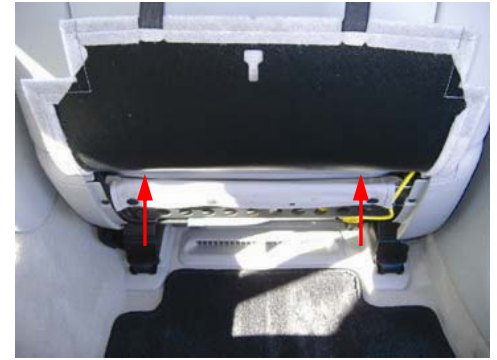


Figure B3

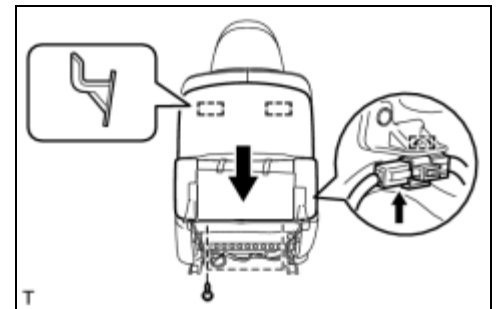
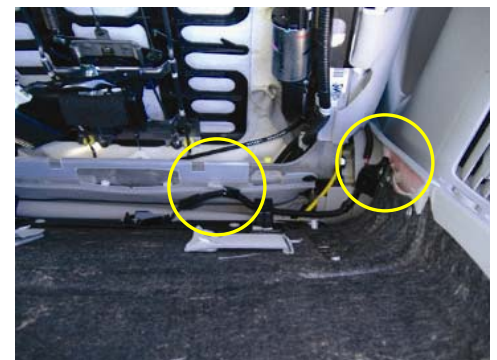


Figure B4




5. Unhook (3) J-clips from top of seat frame.

(Figure B5)


6. Roll top portion of upper seat cushion so J-clip area of seat cover is tucked to expose two factory holes in seat frame. (Figure B6)

7. Repeat steps 1-6 for the driver's side seat.

8. Release rear console end panel sub-assembly by prying bottom edges with a NRT (Nylon Removal Tool). (Figure B8) 

9. Disconnect electrical connector and remove.

10. Remove passenger side instrument panel finish panel end by first pulling panel away from dash at front and middle clips then toward front of vehicle for rear clips. (Figure B10)

11. Using a panel popper, remove clip securing carpet. (Figure B11) 

12. Repeat steps 10-11 for driver's side.

Figure B5



Figure B6

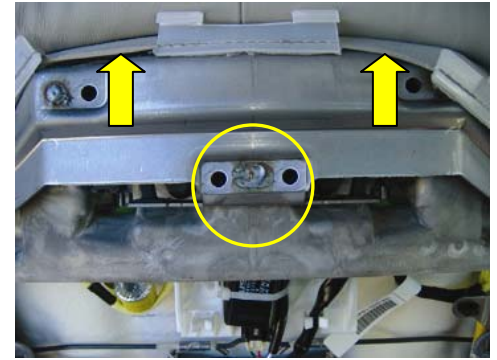


Figure B8



Figure B10

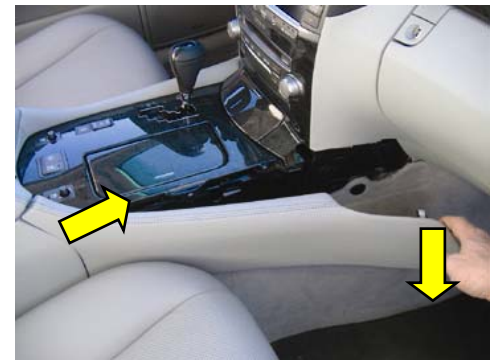



Figure B11



C. Install Power Wiring



REMINDER: Disconnect the battery prior to any ground or harness removal/ tapping to prevent possible vehicle damage. Once all wiring installation is complete the battery can be reconnected. 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. Temporarily battery connection may be required at some points.

1. Attach red T-Taps to the white/ black wire and the pink wire on rear power outlet connector junction with pliers. (Figure C1) 
2. Attach the red wire of power cord #9 to the pink factory wire and the black wire of power cord # 9 to the white/ black factory wire. (Figure C2)

D. Mount Control Box

1. Make all connections to the control box using color coded connections including antenna and power cord # 9 (cables #3A (white and red) to the left and cables #3B (blue and black) to the right) (Figure D1)
2. Wrap control box in foam tape. (Figure D2)
3. Slide control box into cavity in rear of console, tilting front edge upward to clear power outlet connector once panel is re-installed. (Figure D3)



Figure C1



Figure C2

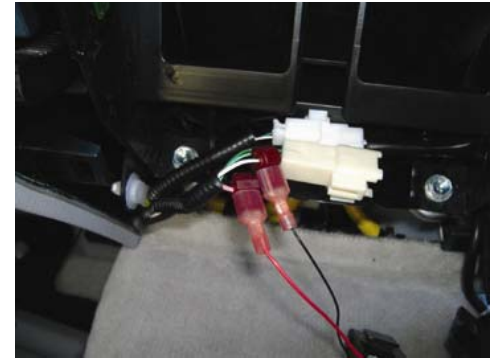


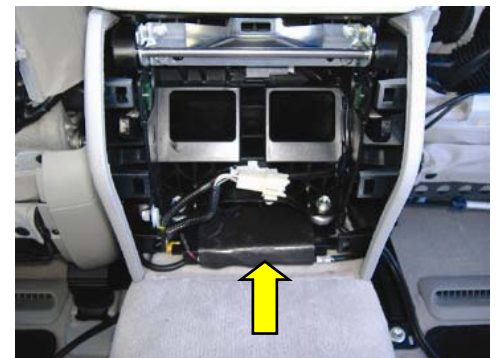
Figure D1



Figure D2



Figure D3



4. Secure excess power cord #9 and fuse holder to the factory wire with (1) 6" wire tie.


(Figure D4) 

Figure D4



E. Route Headrest Cables



1. Route cable #3B under passenger side console wall and toward front of vehicle, tucking cable the entire length. Make sure cables do not block clip locations. (Figure E1a-b)

Figure E1a




2. Feed wire puller behind carpet from console area near cup holder to factory carpet cutout under passenger seat. Use hand to tuck wire puller as far into carpet as possible then retrieve from rear seat through carpet opening. (Figure E2a-b). 

Figure E1b



Figure E2a

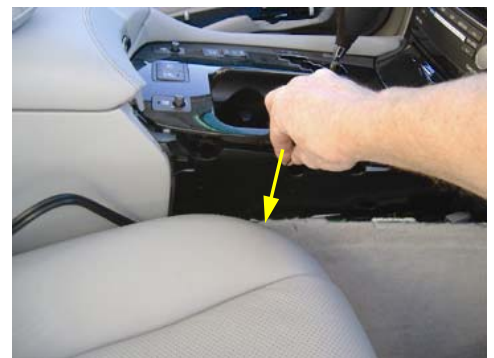




Figure E2b



3. Attach cable #3B to wire puller at console side.

(Figure E3) 

4. Pull cable through to under side of seat.

(Figure E4) 

5. Repeat steps 1-4 with cables #3A on driver's side.

F. Install DVD Monitor/ Bracket Assembly



1. Using a drill and a 9mm drill bit, enlarge existing



holes in drivers seat frame. (Figure F1) 

2. Using a Thread Setter with a 6 x 1.0 mandrel, secure rivet nuts in the holes. (Figure F2)



3. Put the upper seat cushion and seat cover back into place. Locate the two previously installed rivet nuts and mark their location with a pencil. Make sure the marks are below crease in cover.


(Figure F3) 

Figure E3



Figure E4



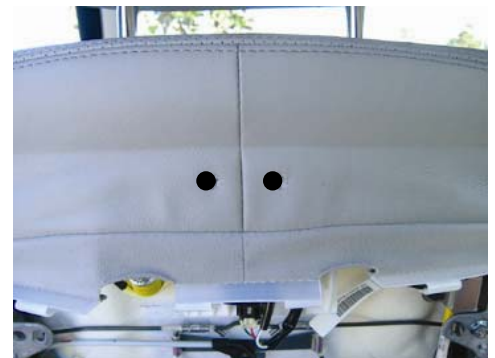
Figure F1



Figure F2




Figure F3



4. Using a center punch, create holes in seat cover.

Holes should be large enough to accommodate bolts to be installed. (Figure F4)



5. Secure monitor/ bracket assembly "B" using (2) bolts with a 10mm socket/ ratchet to the passenger seat. Pressure will need to be applied to the bracket to get bolt started. **Prior to fully securing bolts make sure headrest cable is not between the bracket and seat frame; cable damage will occur.** (Figure F5) 

6. Exit cables with the factory wiring at the inboard side of seat and pull slack through. (Figure F6)

7. Connect cables # 1B and # 2B to cable # 3B. (Figure F7)


8. Snap security clamp around each connection point between cables #1B and #2B to cable #3B, add wire tie to strain relief, and apply foam tape. (Figure F8) 

Figure F4



Figure F5



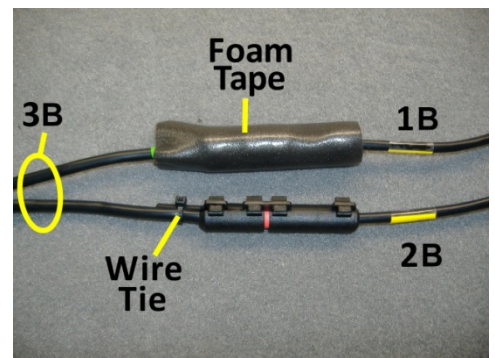
Figure F6





Figure F7



Figure F8



9. Route cables to center of seat then loop back toward outboard seat leg. Secure cables under seat using (2) 6" wire ties to the factory wiring on each side of cable clamps. (Figure F9a-b) 

10. Secure cables in back of seat to factory wiring with (1) 6" wire tie. (Figure F10) 



11. Verify motion of seat travel. Check that cables are not near seat tracks and that they move freely with the seat without any stress.

12. Repeat steps 1-11 with cables # 1A, # 2A, and # 3A on the driver's side seat.

13. Final monitor installation as shown. (Figure F11a-b)

Figure F9b

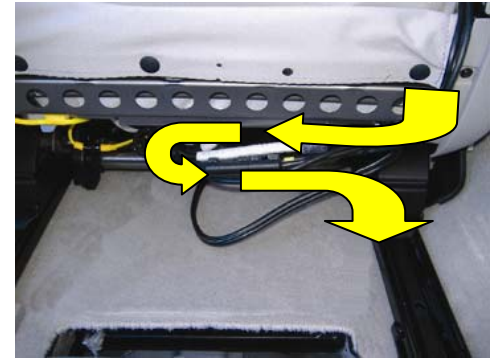


Figure F9b

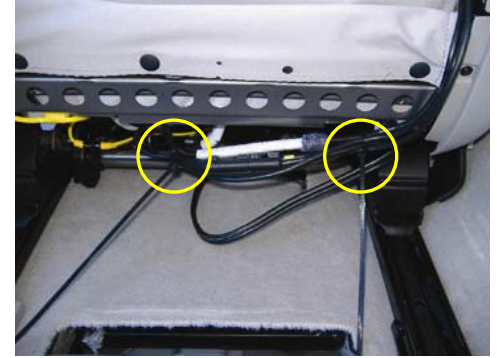


Figure F10



Figure F11a



Figure F11b



G. Complete Installation



1. Make sure vehicles battery is connected to manufacturer's specifications.

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



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

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.

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.

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.

Wiring Diagram

