

**Kit Contents:**

Item #	Qty.	Component Description
1	2	Headrest Assembly
2	1	IN1425 Pre-Pack
	1	Power Cord#9
	1	Power Cord#8
	1	Standard Hardware Bag
	2	Remote Control
	4	AAA Battery
	1	Cable 3A Red
	1	Cable 3B Black
	1	SL Owner's Manual
	4	Cable clamps w Foam
	1	Control Box
3	1	IN1440 Pre-Pack
	2	FF Headphone w/Logo
	4	AAA Battery
4	1	IN1350-51-52 Pre-Pack
	2	Cap LH Mercedes
	2	Cap RH Mercedes

Hardware Bag Contents:

Item #	Qty.	Component Description
1	3	Wire Tie Base
2	2	Blue T-Taps
3	2	Double Sided Tape
4	3	Red T-Taps
5	12	6" Wire Tie
6	2	11" Wire Tie
7	1	Foam Tape

Additional Items Required For Installation:

Item #	Qty.	Component Description
1		

Recommended Tools:

Safety Tools	
Seat/Floor Covers	Blankets
Installation Tools	
Wire Cutters	#15 Torx Driver
Pliers	
NRT (Nylon Removal Tool)	
Special Tools	
None	
Special Chemicals	
None	

Color Applicability/ Trim Level:

Accessory Color	013120 Black	013121 Cashmere	013122 Ash	
Vehicle Trim Color				
Black	X			
Cashmere		X		
Ash			X	

General Applicability:

Mercedes- Benz GL Series Power Headrest

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 multi-meter.
- 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. Using a #15 Torx Driver remove the rear seat back screws on both the Left and Right lower corners of the seat back. (Figure B1a-b) 
2. Remove Seat back by gripping both sides of the seat back and pulling down with equal pressure. (Figure B2 a-b)
3. Locate the safety clip on the right side Headrest post. This clip should be towards the bottom end of the steel post. (Figure B3)
4. Remove clip by gripping it firmly on the back and pulling away from the steel post.
5. Locate the active head restraint wire that runs from the right side headrest post and connects into the yellow wire harness. (Figure B5)

Figure B1a



Figure B1b



Figure B2a



Figure B2b



Figure B3



Figure B5





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.

6. With the battery disconnected grip both ends of the harness firmly and gentle pull apart.

(Figure B6)

7. Locate plastic clip that holds the active head restraint wire and remove active head restraint wire from power headrest motor assembly.

(Figure B7a-b)

8. Gently yet firmly pull up on factory vehicle Headrest to disengage steel posts from their craddles on the power headrest motor assembly.

(Figure B8)



9. Completely remove the factory headrest from the seat and set aside in a safe location. (The factory headrest **Will** be **Reused** later in the install)

(Figure B9)

10. Repeat steps B1-B9 on passenger side seat.

Figure B6



Figure B7a

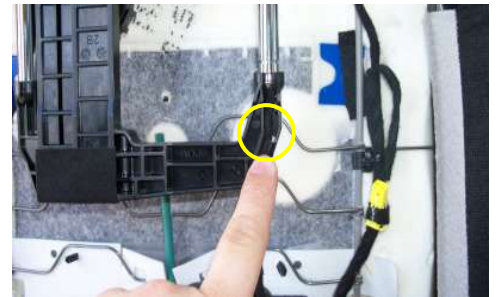


Figure B7b



Figure B8

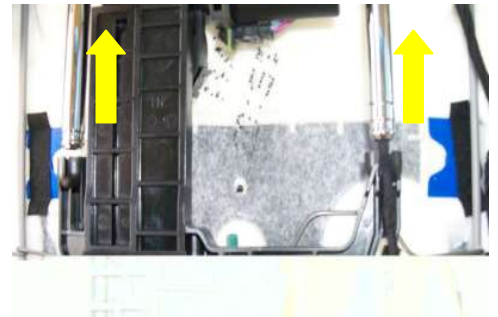




Figure B9



11. Locate the 2 #15 Torx screws hidden behind the cigarette lighter tray door (Figure B11a-b) 

12. Remove the 2 #15 Torx screws on each side of the cigarette lighter tray (Figure B12) 



13. Gently remove the cigarette lighter tray from the dash by pulling out on the unit. As you pull the tray out be sure to push the drawer back into the tray to give you enough clearance to pull the whole unit out. **Be careful to not scratch the leather hand rails on the console or the wood trim surrounding the cup holders..** If need be a towel can be laid across the console to help prevent scratching. (Figure B13)

14. Once the cigarette lighter tray is removed from the dash locate the wire harness that connects into the rear of the lighter tray. (Figure B14)

Figure B11a



Figure B11b



Figure B12



Figure B13



Figure B14



15. Push in on the release button of the wire harness and disconnect the harness from the cigarette lighter tray. (Set the Cigarette Lighter Tray aside in a safe location.) (Figure B15)

Figure B15



16. Pull out on the Left and Right bottom edge of the A/C control panel bezel. (Figure B16)

Figure B16



17. Remove the A/C control panel bezel from the dash. (If Driver side Seat is advanced to the full forward position the control panel should have enough wire length to rest panel on the seat rather than disconnecting the wire harnesses from the back) (Figure B17)

Figure B17



18. Locate and slide forward the inner seat track plastic covers located on the front inside seat track. (Figure B18 a-b)

Figure B18a



19. Remove the outer seat track cover by gripping the front section of the cover and then firmly but gently pulling out on the cover to release it from the seat track. (Figure B19)

Figure B18b



20. Repeat steps B18-19 on the passenger side seat.

Figure B19



C. Install Bracket and Monitor Assembly



1. Gently insert NRT between seat headrest post caps and leather. (Figure C1) 
2. Carefully turn NRT after half of NRT is inserted between post cap and leather. This will create a gap that allows you to run your cables through the seat. (Figure C2) 
3. After both cables have been inserted into the gap created using the NRT gently begin to pull both cables simultaneously into seat back area. (Figure C3)
4. Pull all excess cable into seat back area leaving only 3-4 inches of cable exposed between headrest unit and seat post cap. (Figure C4)
5. Rotate headrest unit so that the screen faces the back seat of the vehicle and gently slide bracket assembly around the seat post. (Figures C5 a-b)

Figure C1



Figure C2



Figure C3



Figure C4



Figure C5a



Figure C5b



6. Attach plastic trim caps to headrest unit bracket assembly by first lining up the holes of the caps with the holes of the bracket assembly and then snapping them down in place. (Figures C6 a-b)

Figure C6a



Figure C6b



Figure C7

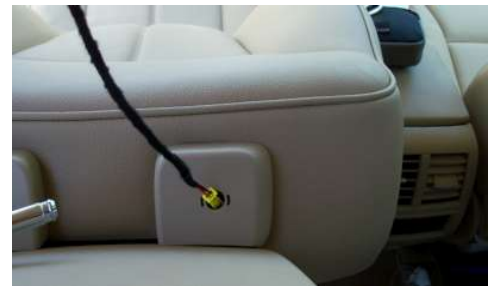


Figure C8



Figure C9



Figure C10



7. Reattach factory headrest by first **carefully sliding the active head restraint wire through the right side seat cap and post.** Once the active head restraint wire has been fed through the seat post you can then slide the headrest steel back into both seat posts. (Figure C7)

8. Once headrest is back in seat carefully slide it down until the headrest steel locks firmly into the power headrest motor assembly cradle.

(Figure C8)

9. Route cables from screen through the seat back making sure to avoid entanglement in the power headrest motor assembly, lumbar support or seat coolers (if applicable). Cables should exit the seat bottom on the side with the factory seat wire harness. (Figure C9)

10. Route cables through lower seat frame following the factory seat wire harness. **Be sure to avoid entanglement with the seat adjustment gears by routing cables to the inside of the seat frame.** (Figure C10)



11. Use provided wire ties to strap cables to factory seat wire harness. (Figure C11a-b)

Figure C11a



Figure C11b



Figure D1

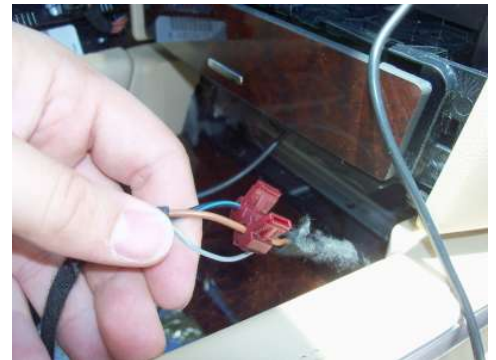


Figure D2a

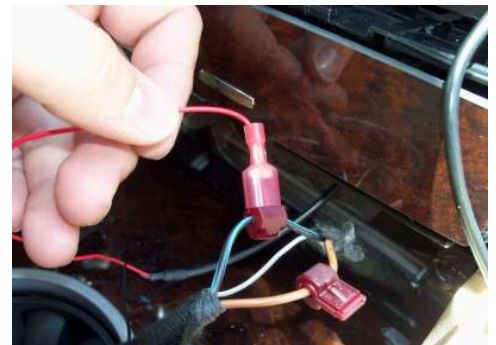
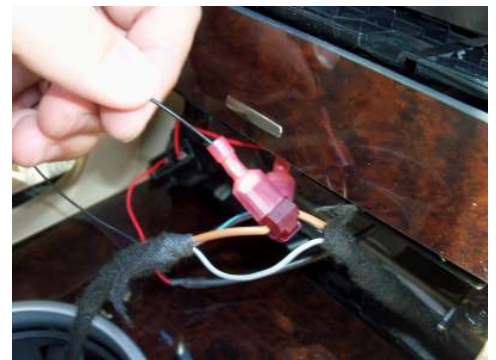



Figure D2b



D. 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. Remove black wire casing from front cigarette power harness and attach red T-Taps to the orange wire and the black wire on harness using pliers. (Figure D1) 
2. Connect the red wire of the supplied Power Harness #9 to the T-Tap attached to the Black wire and the black wire to the T-Tap attached to the Orange wire. (Figure D2a-b)

3. Secure the fuse assembly to the cigarette lighter power harness using a wire tie.
4. Run the Power Harness #9 behind the accessory drawer and pull all excess wire into the opening below the radio. (Figure D4)

E. Mount Control Box and Route Cables

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 left) (Figure E1)
2. Wrap control box with supplied Foam Tape. (Figure E2)
3. Place control box in cavity area underneath the radio routing red and white ended cable to driver's side and blue and black ended cable to passenger's side (Figure E3)
4. Create service loop when routing control box cables.
5. Route driver side cable through opening in dash console then angling the cable down run it out along the edge of the center console (Figure E5a-b)

Figure D4



Figure E1

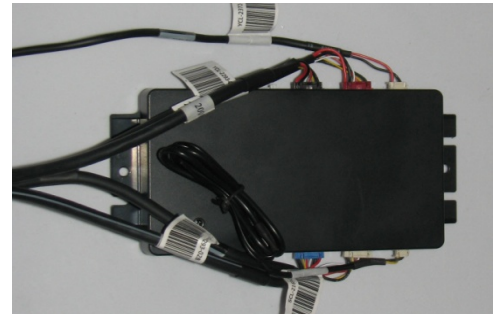


Figure E2



Figure E3



Figure E5a



Figure E5b



6. Pull excess wire through making sure to leave a service loop in open area below the radio (Figure E6)

7. Route cables around the back side of the front seat mount and then under the inside seat track. Pulling the excess wire through allowing for a small amount of slack (Figure E7)

8. Using your hand or an NRT (Do not use any sharp objects as they may damage the casing and wires within the cable) push the cable up under the bottom edge of the center console. Be sure that all the wire from the front of the console to the break in the carpet is hidden beneath the console.

(Figure E8a-b) 

9. Locate the break in the carpet just behind the front seat mounting point. Gently pull out on the carpet creating a gap between the two sections of carpet.

10. Push the cable into the gap created and behind the sections of carpet. Allow the carpet to relax back into position hiding the cable completely from view (Figure E10a-b)

Figure E6



Figure E7



Figure E8a



Figure E8b



Figure E10a



Figure E10b



11. Locate the factory seat wire harness that runs along the outside seat rail and connects under the middle of the seat (Figure E11)



12. Pull the factory seat wire harness out from under the seat so that it is easily accessible. **Be careful as to not pull to hard as you can pull the front retaining clip loose from the seat frame (if this happens the clip can be reinserted by pushing it back into the hole in the seat frame)**

(Figure E12)

13. Align headrest monitor cables so that they are following the factory seat harness (Figure E13)

14. Repeat steps E5-E13 on passenger side of vehicle

F. Headrest Cable Connections

1. Connect driver side headrest and control box cables together. (Figure F1)

2. Snap security clamp around each connection point between cables #1a and #2a to cable #3a, add wire tie for strain relief, and apply foam tape. (Figure F2a-b)

Figure E11



Figure E12

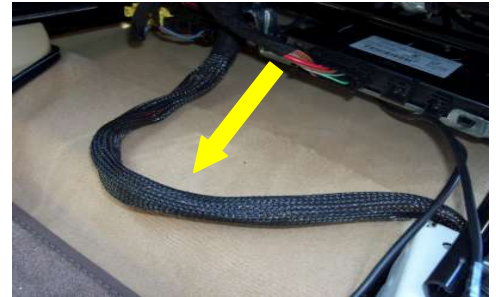


Figure E13



Figure F1



Figure F2a

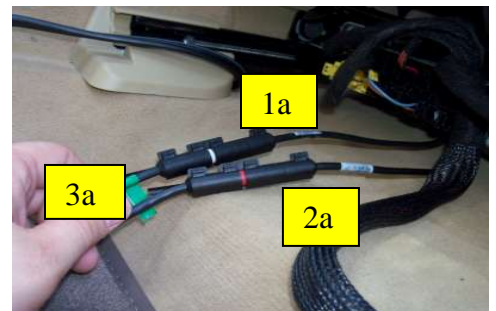


Figure F2b



3. Secure cables to seat harness on bottom side using provided wire ties. (Figure F3a-b)
4. Verify motion of seat travel. Check that cables are not near seat tracks and that they move freely with the seat without any stress.
5. Repeat steps 1 through 4 for passenger side seat using cables #1b, #2b and #3b.

G. Reassemble Trim

1. Trim all wire tie ends
2. Reassemble all trim removed in earlier sections.
3. Make sure all factory connections are reconnected and secure.

H. 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. (Figure H1)
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 F3a



Figure F3b



Figure G1



Figure G2



Figure H1



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

