



Kit Contents:

Item #	Qty.	Component Description
1	2	Headrest Assembly
2	1	IN9000 Pre-Pack
	1	Power Cord#9
	1	Power Cord#8
	1	Standard Hardware Bag
	4	AAA Battery
	1	Cable 3A Red
	1	Cable 3B Black
	4	Cable clamps w Foam
	1	Control Box
3	1	IN9010 Pre-Pack
	2	FF Headphone w/Logo
	2	Remote Control
	4	AAA Battery
	1	SL Owner's Manual
4	1	IN3050-53 Pre-Pack
	2	Cap LH Mercedes H103
	2	Cap RH Mercedes H103
5	1	IN3065 Pre-Pack
	4	Spacers 306091a2

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	#20 Torx Driver
Pliers	
NRT (Nylon Removal Tool)	
Special Tools	
None	
Special Chemicals	
None	






Color Applicability/ Trim Level:

Vehicle Trim Color	Accessory Color	Black	Ash	Cashmere	Almond	Sahara	00000	Cognac
Black		X						
Ash			X					
Cashmere				X				
Almond					X			
Sahara								
Cognac								

General Applicability:

Mercedes CLS

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. Remove the seat back by gently but firmly pulling out on the bottom corners of the seat back to release the plastic clips from the seat frame. (If need be a NRT can be used to gently pry the seat back away from the seat frame at the bottom)


(Figure B1a-d) 

Figure B1a



Figure B1b



Figure B1c

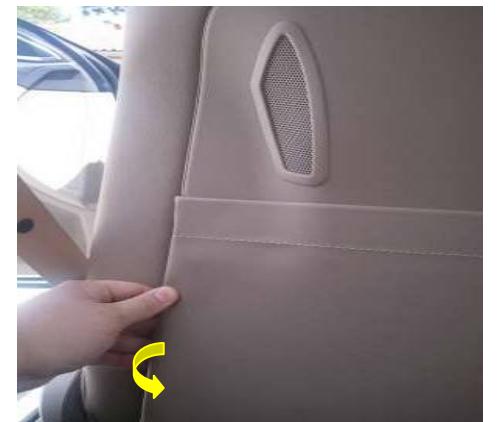


Figure B1d



2. .Locate the yellow active head restraint plug and harness located to the right in the back of the seat. (Figure B2)



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.

3. Unplug the factory head restraint signal plug from the factory signal harness. (Figure B3)

4. Lift out on the leather at the upper left hand back of seat to expose headrest post sleeves. (Figure B4)

5. Locate the headrest post lock that is just to the left side of the headrest post sleeve. Using a hook tool gently pull out to the left to release the lock and remove the headrest at the same time.


(Figure B5 a-b) 

Figure B2



Figure B3

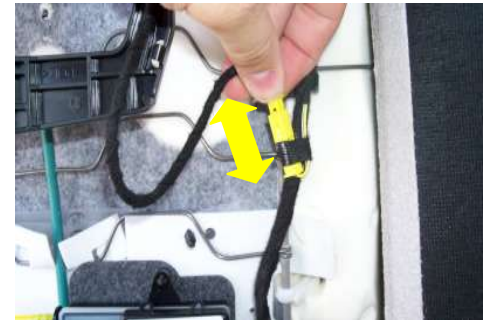


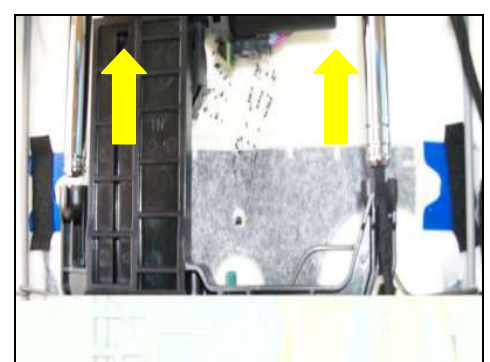
Figure B4



Figure B5a



Figure B5b



6. Remove the rubber cup holder insert located at the bottom of the cup holder by gripping the divider section and pulling up. (Figure B6)

7. Using a Torx #20 remove the screw that is located in the center of the cup holder.

(Figure B7) 

8. Remove the ash tray from the the cigarette tray by first pulling up and then out.

(Figure B8)

9. Using a Torx #20 remove the screw that is located in the center of the cigarette tray and underneath where the ash tray was.

(Figure B9) 

10. Remove the cup holder from the center console by firmly but gently pulling up on the cup holder.

Figure B6



Figure B7



Figure B8



Figure B9



Figure B10a



11. Remove the cigarette lighter tray by first closing the top slide cover and gently pushing down on the rear of the tray (slide toward the A/C controls); pull out. (Figure B11a-b)



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.

12. Locate the factory accessory cigarette tray power harness on the underside of the tray. Push in on release tab on harness and disconnect. (Figure B12)

13. Once the accessory cigarette power harness is disconnected the lighter tray assembly can be removed from the center console. (Figure B13)

Figure B10b



Figure B11a



Figure B11b




Figure B12



Figure B13



14. On the driver side of the vehicle pull out on the carpet on the kick panel area of the center console. A NRT can be used to help pry the carpet from behind the console side wall if necessary.

(Figure B14 a-b) 

15. On the passenger side of the vehicle pull out on the carpet on the kick panel area of the center console. A NRT can be used to help pry the carpet from behind the console side wall if necessary.


(Figure B15 a-b) 

Figure B14a



Figure B14b



Figure B15a

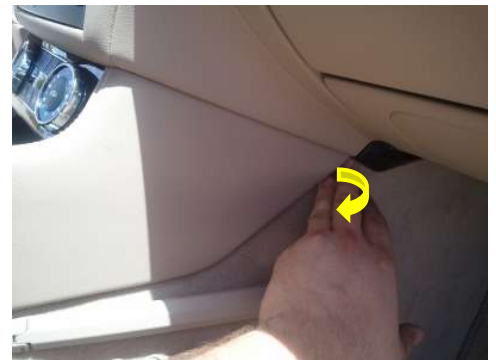


Figure B15b





Figure C1



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-Tap to the green/black (Accessory +) wire on the factory cigarette harness using pliers. (Figure C1) 

2. Attach red T-Tap to the Brown (Accessory -) wire on the factory cigarette harness using wire on the factory cigarette harness using pliers. (Figure C2) 
3. Connect the Red Power Wire of Power Harness #9 to the Green/Black (Accessory +) wire on the factory harness. Then connect the Black Ground Wire of Power Harness #9 to the Brown (Accessory -) wire of the factory harness. (Figure C3)
4. Run the Power Harness #9 to the front of the center console and into the area below the A/C control panel. (Figure C4)

D. Mount Control Box and Route Cables

1. On the passenger side of the vehicle take your red/ white double cable and begin routing it under the dash/ center console. Begin by routing behind the A/C duct toward the driver side of the vehicle. (Figure D1)
2. On the driver side of the vehicle grab the red/ white double cable that was started being routed from the passenger side and pull the remainder of the cable through leaving enough on the passenger side to create a service loop in a later step. (Figure D2)

Figure C2



Figure C3

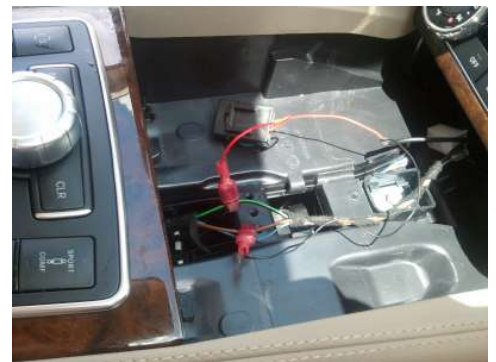


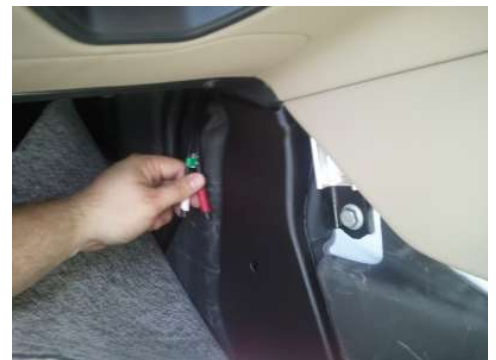
Figure C4



Figure D1



Figure D2



3. On the passenger side of the vehicle route the blue/ black double cable from the same start point as the red/ white cable but run behind the A/C duct and down along the side of the center console. (Figure D3)

4. From the front side of the A/C duct on the passenger side reach up into the console and grab your power cable. (Figure D4)

5. Once you have pulled the remaining slack from the power cable route it behind the A/C duct so that it exits in the same location as both your red/ white and blue/ black double cables. (Figure D5)

6. Make all connections of your cables to the control box following all color codes and then wrap control box with supplied foam wrap. Then take the control box and slide it into the space just behind the A/C duct on the passenger side. (Figure D6 a-b)

Figure D3



Figure D4

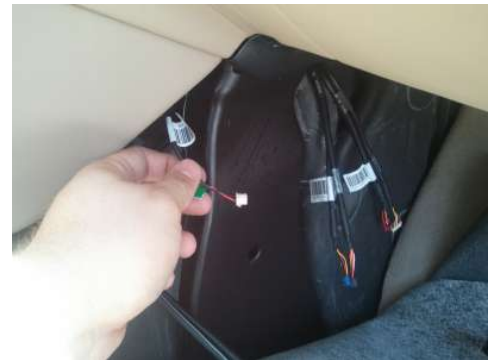


Figure D5

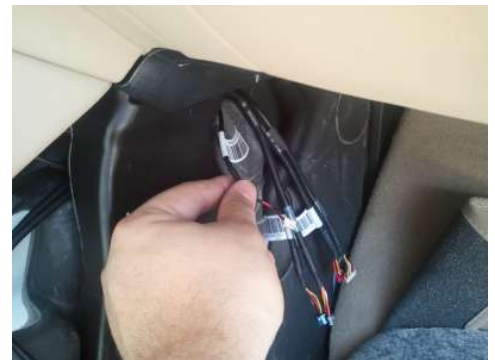


Figure D6a



Figure D6b




7. Route the double cables on both the driver and passenger side of the vehicle along the sides of the center console and behind the carpet till you reach the split in the carpet that is located underneath the seat. Then route the cables under the seat rails. (Figure D7)

8. Route cables under the spit in the carpet and bring them out where the factory seat harness comes through the carpet. (Figure D8)

E. Install Bracket and Monitor Assembly

1. Using a NRT slide it between the seat headrest posts and the leather of the seat creating a gap.

(Figure E1) 

2. Route the single monitor cables through the created gap between the leather and the seat posts.(Figure E2)

3. Slide the monitor assembly over the seat posts till it locks around the seat posts. Then pull the excess slack out of the single cables down into the back of the seat. Now snap the provided bracket caps onto the bracket assembly of the monitor.

(Figure E3)

Figure D7



Figure D8



Figure E1



Figure E2



Figure E3



4. Route single cables through the back of the seat making sure to avoid having them caught in the motorized headrest adjustment assembly.

(Figure E4)

5. Route cables out through bottom of seat by running them between the seat frame and the seat foam. (Figure E5)



6. Route cables through plastic seat pivot point cover **use caution to make sure single cables are not caught in any moving seat parts such as gears.** (Figure E6)

7. Route single cables over the lower seat framing bar and secure cables underneath seat with provided wire ties making sure the cables will not be caught. (Figure E7 a-b)

Figure E4



Figure E5

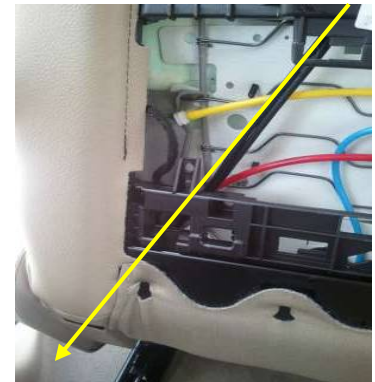


Figure E6



Figure E7a



Figure E7b



F. Headrest Cable Connections

1. Connect the color coded single cables to the matching color coded double cables. (Figure F1)
2. Snap security clamp around each connection point between cables #1b and #2b to cable #3b, add wire tie for strain relief, and apply foam tape. (Figure F2)
3. Secure cables to seat harness using the provided wire ties. (Figure F3 a-d)
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 the other seat using cables #1A, #2A and #3A.

Figure F1



Figure F2

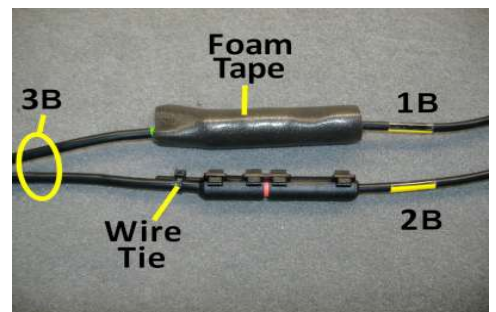


Figure F3a



Figure F3b



Figure F3c

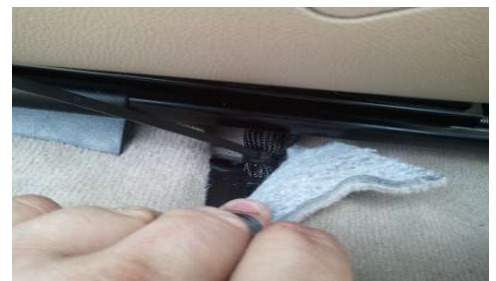


Figure F3d



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.
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

