



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	IN3056-59 Pre Pack
	2	Cap LH Mercedes-Chrysler 14mm H103
	2	Cap RH Mercedes-Chrysler 14mm 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	#25 Torx Driver
Pliers	#40 Torx Driver
NRT (Nylon Removal Tool)	
Special Tools	
None	
Special Chemicals	
None	






Color Applicability/ Trim Level:

Accessory Color	013304 Ebony	013305 Gray	013303 Almond	
Vehicle Trim Color				
Ebony	X			
Gray		X		
Almond			X	

General Applicability:

2012 Mercedes Benz ML

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 Torx #25, remove the 2 screws that are located at the bottom of the seat back.

(Figure B1a-c) 



2. Push in applying pressure on the seat back on the right and left sides around the middle of the seat back. Then push in applying pressure to the upper portion of the seat back. Doing so will release the plastic clips that catch the seat frame. The seat back should now slide off in a downward direction.(Figure B2 a-c)

Figure B1a



Figure B1b



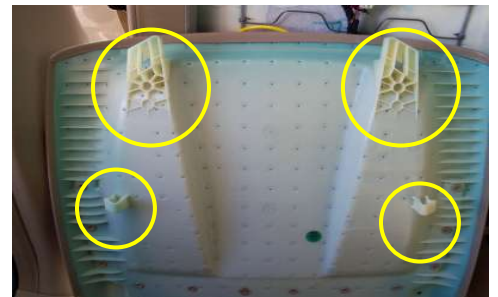
Figure B1c




Figure B2a



Figure B2c



3. Using a NRT or a pair of needle nose pliers remove the cotter pin clips on the left and right that secure the headrest post to the power headrest motor assembly. Pay particular attention to direction of pins for reinstalling at a later time

(Figure B3a-b) 

4. Remove the headrest from vehicle by pulling up until the steel headrest posts are completely out of the seat. Set factory headrest aside in a safe location as you will need to reinstall once installation of the screens has been completed.



(Figure B4a-b)

5. Open up center console armrest doors by gently pulling up on the release lever located just to the forward section of the doors. Once open remove the sliding tray that rests in the console by simply lifting it out. (If vehicle has the factory ipod cable already installed it may be unplugged in this step so that it is out of the way in future steps)

Now locate the mat that covers the inside floor of the console (Figure B5)

Figure B3a



Figure B3b



Figure B4a




Figure B4b




Figure B5





6. Using a NRT or small angle hook tool gently lift out the rubber mat that covers the inside console floor. (Figure B6) 

7. Using a Torx #25 remove the two screws that are toward the front side of the center console. (These screws should be the two that are black in color) (Figure B7 a-b) 


8. Using a Torx #40 remove the two screw that are to the rear of the center console. (These screws should be the two that are silver in color) (Figure B8a-b) 

Figure B6

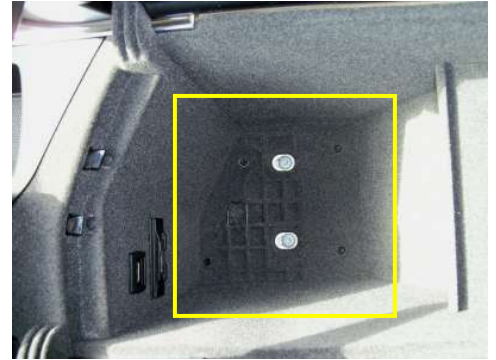


Figure B7a



Figure B7b




Figure B8a



Figure B8b



9. Grip the front side panel of the inside of the center console firmly and begin to pull up. Once front inside panel is almost the height of side walls begin to pull outward toward the opening of the center console. (Using a NRT might be necessary for some in order to get the inside front panel to unclip from the console wall. (Figure B9) 

10. Pull out front inside panel wall so that the cables and opening are exposed behind it. (Figure B10)

11. Now that the screws securing the rear of the center console have been removed you can now gently lift up on the rear of the console. (It is recommended that once the rear of the console has been lifted a couple inches up you should place a wedge under the console so as to avoid having to hold up the rear from the next step [Use caution not to mark up or damage the base of the console by using a padded non-marking wedge]) (Figure B11 a-b)

12. Remove the factory harness from the back of the rear accessory power outlet by firmly pulling out on the harness. (Figure B12)

Figure B9



Figure B10



Figure B11a



Figure B11b



Figure B12



STOP 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. With the factory rear accessory power harness removed pull it out from underneath the console a couple inches and cut back cloth wire wrap exposing both a black and brown wire. (Figure C1)
2. Connect the provided red T-taps to both the black and brown wire using a pair of pliers. (Figure C2 a-b) 
3. Connect the Black wire of Power Harness #9 to the Brown (-) wire from the factory harness and then connect the Red wire of Power Harness #9 to the Black wire (accessory +) of the factory harness. Then secure the fuse holder to the power harness. (Figure C3)
4. Run the Power Harness #9 from the rear of the center console going underneath the console and into the open area located behind the front inside panel of the console. (Figure C4)

Figure C1



Figure C2a



Figure C2b



Figure C3



Figure C4



D. Mount Control Box and Route Cables

1. Route your double cable wires through the opening being the inside front panel of the center console and down the inside walls till your cables exit under the sides of the console (Figure D1a-b)
2. Make all connections of your cables to your control box following the color coordinated connectors on both the box and cables.
(Figure D2)
3. Create service loop when routing control box cables.
4. Once all connections are made wrap your control box with the provided foam dampening sheet and slide the box into the opening in the front of the center console that is located behind the inside front console panel
(Figure D4 a-b)

Figure D1a

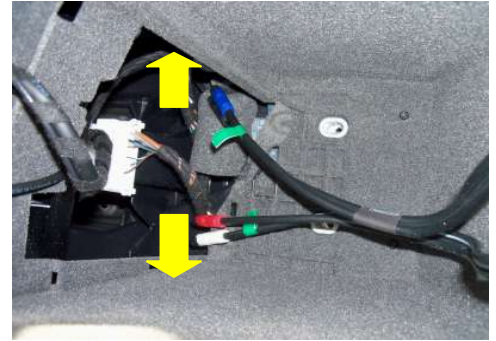


Figure C5b



Figure D2

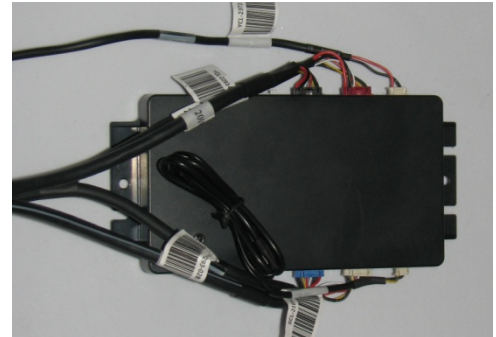



Figure D4a



Figure D4b



E. Install Bracket and Monitor Assembly

1. Insert a NRT between the post cap on the top of the seat and the leather and gently turn the NRT to create a gap. (Figure E1) 

2. Route the single headrest cables through the opening created between the post caps and the leather and run the cables down into the back of the seat. (Figure E2a-c)



3. Slide the monitor and bracket assembly over the post caps on the seat. Push down on the assembly to locate the proper position to allow the assembly to slide pass the post caps (proximally ¼ inch below caps). (Figure E3)

4. Clip on the provide covers that cover the bracket assembly of the monitor. (Figure E4)

Figure E1



Figure E2a



Figure E2b



Figure E2c



Figure E3



Figure E4



5. Route the monitor single cables through the back of the seat and out the outside bottom edge of the seat. This can be accomplished by routing the cables behind the seat frame and then out behind the cloth of the seat that covers the seat corner.

(Figure E5)



6. Route single cables behind the plastic shroud that hides the seat pivot point and gears. **(Be extremely careful; being sure to follow the factory wires that also run behind this shroud, so as to keep the cables from becoming entangled in the seat gears)**



(Figure E6)

7. Route cables over the lower seat pivot beam and secure the cables to the underside of the seat. (This may be accomplished by routing the cables through the seat pan or by wire tying the cables to the underside of the seat pan) (Figure E7)

8. Now route the cables underneath of the motor drive bar that sits just above the carpet and bring the cables to the rear of the seat for later connection in future steps.(Figure E8)

F. Headrest Cable Connections

1. Locate the split in the carpet midway under the seat and follow that split to where it goes under the center console. (Figure F1)

Figure E5

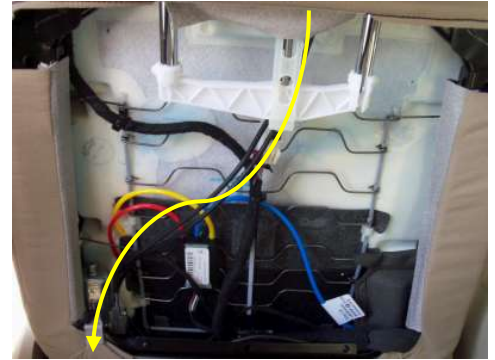


Figure E6



Figure E7

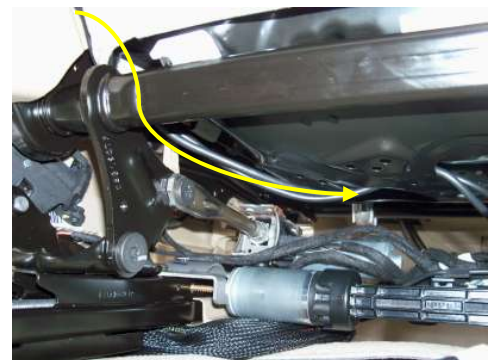


Figure E8



Figure F1



2. Route the double cables that are exiting under the center console into this split so that the cables can no longer be seen. (Figure F2)

Figure F2



3. Continue to route the double cables toward the direction of under the seat by routing the cables underneath the seat rails that bolt to the floor of the vehicle. (Figure F3)

Figure F3



4. In the same manner as before route the double cables through the split in the carpet so that they can no longer be seen.(Figure F4)

Figure F4



5. Once double cables are properly routed through the split in the carpet the cables should exit at the point where the factory seat harness comes through the carpet. Secure double cables to the factory seat harness and route remaining excess cable out underneath the seat following the path of the factory seat harness. (Figure F5)

Figure F5



6. Make your connections with your single cables from the Monitor assembly and the double cables that are connected to your control box. (Figure F6)

Figure F6



7. Use the supplied plastic cable clamps to secure your connections from the single cables to the double cables. (Figure F7)

Figure F7



8. Wrap the plastic cable clamps with the supplied foam dampening sheets. (Figure F8)

9. Use two of the supplied wire ties to secure the foam wrapped cable clamps to the factory seat wire harness making sure to allow for seat travel in all directions.(Figure F9)

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.

Figure F8



Figure F9



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

