### NOTICE OF INTENDED INSTALLATION AND USE

ROSEN ENTERTAINMENT SYSTEMS VIDEO PRODUCTS ARE NOT INTENDED FOR VIEWING BY THE DRIVER, AND ARE TO BE INSTALLED ONLY TO BE VIEWED BY REAR-SEAT OCCUPANTS.

IMPROPER INSTALLATION COULD DISTRACT THE DRIVER OR INTERFERE WITH SAFE OPERATION OF THE VEHICLE, WHICH COULD RESULT IN SERIOUS INJURY OR DEATH, AND COULD ALSO VIOLATE STATE LAW.

ROSEN ENTERTAINMENT SYSTEMS DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY IMPROPER OR UNINTENDED INSTALLATION AND/OR USE.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Message</th>
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</thead>
</table>
| ![STOP](stop.png) | **STOP**  
Damage to the vehicle may occur  
Do not proceed until process has been completed |
| ![CAUTION](caution.png) | **CAUTION**  
Process must be carefully observed in order to reduce the risk of damage to the accessory or vehicle |
| ![CRITICAL](critical.png) | **CRITICAL**  
Process must be carefully observed in order to ensure a quality installation |
| ![TOOLS and EQUIPMENT](tools.png) | **TOOLS and EQUIPMENT**  
Specific tools and equipment recommended for this process |
| ![SAFETY RISK](safety.png) | **SAFETY RISK**  
Observe safe practices, this process can be dangerous and there is a risk of personal injury |
| ![TESTING and TROUBLESHOOTING](testing.png) | **TESTING and TROUBLESHOOTING**  
Content specific testing and troubleshooting points |
# PREPARING FOR THE INSTALLATION

Before you start, please read these critical steps below

<table>
<thead>
<tr>
<th>Step  1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEFORE YOU START THE INSTALLATION, READ THIS GUIDE!</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VISIT</th>
<th>Rosen Dealer Central</th>
</tr>
</thead>
<tbody>
<tr>
<td>For the latest Updates, Corrections and Technical Tips about this product and installation</td>
<td><a href="http://www.RosenDealerCentral.com">www.RosenDealerCentral.com</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHECK THE BATTERY</th>
<th>Test the battery voltage to make sure it’s fully charged to a minimum of 12.8 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>This only takes seconds and can save hours of troubleshooting later.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TURN THE VEHICLE</th>
<th><strong>OFF</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep the Vehicle Off during the installation to avoid setting various Vehicle Fault sensors</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Keep the Vehicle <strong>OFF</strong> during the installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failure to follow this may cause the AIRBAG FAULT SENSOR to become enabled. Dealer Service Departments charge a significant fee to reset the Fault Sensor.</td>
</tr>
</tbody>
</table>
## Prepare Electronics

You will need to install the vehicle specific mounting brackets.
The following steps will guide you through this process.

**Note:** Mercedes-Benz GL/ML/R installation shown

### STEP 2

<table>
<thead>
<tr>
<th>Prepare Electronics</th>
<th></th>
</tr>
</thead>
</table>
| **Locate hardware mounting kit.**  *
(Part# MB100B contents shown) | ![Image](#) |

Locate clean, non-abrasive working surface to prepare the headrest units.

Determine the proper mounting bracket positions according to your vehicle application. See Below

Attach mounting brackets to electronics by using 4 supplied screws
Spacing will vary by application.
Use image below as a reference.

### A
**For 150mm Spacing use**

### B
**For 160mm Spacing use**

### C
**For 170mm Spacing use**

*Note: Mercedes-Benz Vehicle shown = Position “A” @ 150mm*
### Routing Cable Through Headrest Bracket

You will need to route the cable through the headrest bracket. The following steps will guide you through this process.

<table>
<thead>
<tr>
<th>STEP 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> Mercedes-Benz GL/ML/R installation shown</td>
</tr>
</tbody>
</table>

- Place the AV7700 electronics system on clean flat surface.
- Route cables through rectangular slots in mounting brackets. (Shown Right)

**Note:** Critical process for proper cable routing during installation

### Attach Color-Matched Back Covers

Attach back covers to AV7700 electronics

<table>
<thead>
<tr>
<th>STEP 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each AV7700 kit is supplied with color-matched back covers</td>
</tr>
</tbody>
</table>

- Align back cover with AV7700 mounting holes and snap into place
## Installing AV7700 Electronics

You will need to install the AV7700 electronics and route the cable through the seat backs. The following steps will guide you through this process.

**Note: Mercedes-Benz GL/ML/R installation shown**

<table>
<thead>
<tr>
<th>STEP 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAUTION</strong></td>
</tr>
<tr>
<td>Installing AV7700 Electronics</td>
</tr>
</tbody>
</table>

### Route cables into seat along post guides.
Cables are Left/Right specific based on mounting orientation of electronics
(Both cables will be black with connection points being color specific. IE: Black & Grey)

### Locate mounting bushings.
Bushings are labeled specific for Left or Right for each post guide. See next step

### Once cables have been routed into seat, insert mounting bushings.
A = Left side of post guide
B = Right side of post guide

**NOTE: Do NOT pinch cables**

### Both mounting bushings installed.

**Caution: Do NOT pinch cables**

### Mount AV7700 electronics into mounting bushings as shown while pulling excess slack from cables

**CAUTION**
## Steps For Mounting Electronics Into Bushings

Below are steps to lock mounting brackets into bushings

*Note: Mercedes-Benz GL/ML/R installation shown*

<table>
<thead>
<tr>
<th>STEP 6</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Step A</strong></td>
<td>Slide mounting brackets into bushings</td>
</tr>
<tr>
<td><strong>Step B</strong></td>
<td>Locate locking pin</td>
</tr>
</tbody>
</table>
| **Step C** | Insert locking pin by sliding through both locking positions on bracket  
*Note: Moderate force may be needed to engage locking pin* |
| **Step D** | Locking pin fully inserted |

Image of both locking pins and electronics fully installed
Routing Harnesses and Making Connections

You will need to route the harnesses and make the power connections to the vehicle. Proper routing of cables is crucial to making sure cables do not get damaged.

This system requires a minimum of 12V (+) ACC Switched and Ground (-) to operate. The 12V (+) ACC Switched source must be capable of supplying a minimum of 7A.

Wiring Diagram
**Initial Test, Reassembly, and Pre-delivery Re-test**

You will need to fully test the system to ensure it is working and connected to the vehicle properly. The following steps will guide you through:

**Step 1:** INITIAL TEST (Do this BEFORE you reassemble any trim panels)
- a. Reconnect the vehicle battery if needed
- b. Install batteries into the remote control, headphones and game controllers
- c. Start the vehicle (ensure that it is safe to do so, there are no tools or people under the hood)
- d. Perform the following steps on each headrest to ensure proper operation:
  - Close and re-open the unit several times
  - With the display open, insert a DVD (in good condition) and select play
  - Check the audio on the IR headphones
  - Press the Speaker button and adjust the vehicle radio frequency as needed to check the audio
  - Select and play the internal games
  - Eject the disc
  - Turn off the vehicle and wait for the unit to turn off
- e. If the system does not function properly, reset the system by pressing and holding the reset button located near the eject button

**Step 2:** REINSTALL all trim panels removed during the installation using care not to damage any harnesses

**Step 3:** PRE-DELIVERY AND RE-TEST
- a. Start the vehicle (ensure that it is safe to do so, there are no tools or people under the hood)
- b. Perform the following steps
  - Insert a DVD (in good condition) and select play
  - Re-check IR headphones and FMT audio
  - Eject the disc
  - Remove the protective films and clean the unit as needed
- c. Place the Owners Information package in the glove compartment
- d. Place the IR headphones, remote control and game controller in a convenient location
Installer Settings

The steps below will show you how to access the installer settings menu

To access install setup menu: use the remote control, press “EJECT-ENTER-1-1-2-0”

- To change AUX 2 input labeling, highlight AUX 2 label and scroll left/right using arrows.
- To select EXT FMM, highlight EXT FMM and select on.
- POD ADDR is used to manually set pod address
  - Address is based on which port the pod is plugged into.
- Selecting A or B allows you to manually set the pod’s address
  - When manually selecting POD ADDR, an OSD will appear on opposite pod displaying what pod it will be

Specifications

Supply Voltage : 12V (+) ACC negative ground system, 11-16VDC operating range
Current Consumption : 7A max operating
Video Signal : Composite video 1.0Vp-p 75Ω , NTSC/PAL
Audio Signal : Audio Output : 2Vrms, line output
IR Audio Signal : Channel A= 2.3 MHZ / 2.8 MHZ and Channel B= 3.2 MHZ / 3.8 MHZ
Discs Played : (1) 5” (12cm) DVD-VIDEO Disc
  - (2) Compact Disc (CD-DA/CD-R/CD-RW/MP3)
Operating Temperature : 0C to +60C

Note: Specifications and designs are subject to modification without notice.

Troubleshooting

No headphone audio
The Headphone audio should be preset at all times, unless the MUTE is set to on
Solution: Press the MUTE Button to enable the audio and turn the MUTE OFF.
Solution: Confirm the headphones have fresh batteries and are turned on, and the ON LED Indicator is Illuminated.

Missing Channel B Audio
System includes a monitor A and monitor B. Monitor A is channel “A” on headphones and monitor B is channel “B” on headphones. If audio is not present, check the following.
Solution: Check A/B switch on headphones.
Solution: Reset the system
Solution: Check all cable connections
## Service and Optional Parts List

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>AP1003</td>
<td>Interface Module</td>
<td>AP1011</td>
<td>Harness, AUX IN</td>
</tr>
<tr>
<td>AP1008</td>
<td>Harness, Power</td>
<td>AP1043</td>
<td>Remote Control</td>
</tr>
<tr>
<td>AP1010</td>
<td>Harness, Interface</td>
<td>AP1015</td>
<td>Mounting Bracket</td>
</tr>
<tr>
<td>AP1007</td>
<td>Control, Game System</td>
<td>AP2001</td>
<td>Monitor/Electronic w/ DVD</td>
</tr>
<tr>
<td>AC3640</td>
<td>Headphones, 2 CH. Fold Flat</td>
<td>AP2002</td>
<td>Quick Start Guide</td>
</tr>
<tr>
<td>AP1029</td>
<td>Warranty Card</td>
<td>AP1017</td>
<td>Cable Routing Tool</td>
</tr>
<tr>
<td>AP2020</td>
<td>Harness, Interface (Black w/ Gray)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP1021</td>
<td>Harness, Interface (Black w/ Black)</td>
<td></td>
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