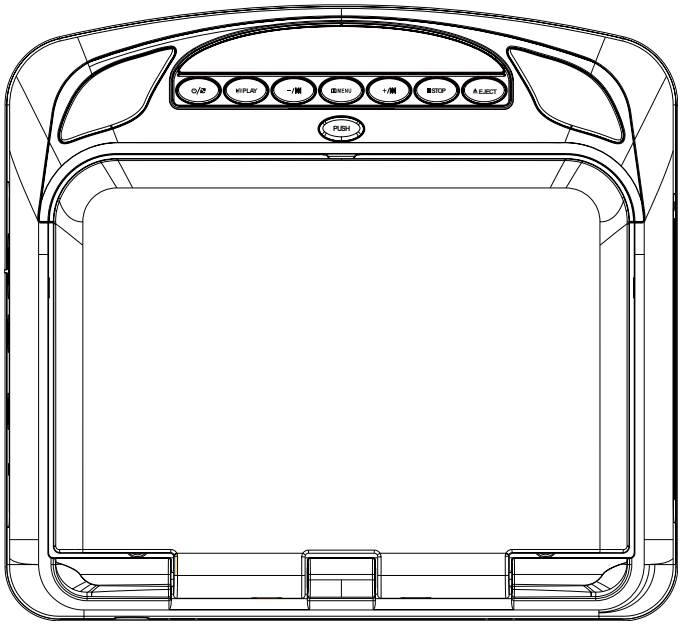
ROSEN®

XR1020U

10.1" Vehicle Entertainment System
Installation Guide



Important Notices

Installation of an Overhead Video Systems requires careful planning and preparation. Be extremely careful when working on a vehicle with side curtain air bags. Do not route wires near any portion of the side curtain air bag assemblies. This includes any anchor points in A, B, C or D pillars of the vehicle. Routing wires in these areas or running wires by the side curtain air bags can prevent the side curtain air bag from fully deploying which can result in personal injury to vehicle occupants. If you have any questions regarding wire routing in avehicle, please contact Voxx Technical Support at 1-800-645-4994.

When connecting power and ground in a mobile video installation, ensure that the ACC wire is fused at the point where it is connected to the vehicle ACC wiring. Failure to do so can result in damage to the vehicle if a short circuit develops between the vehicle connection point and the mobile video product.

An LCD panel and/or video monitor may be installed in a motor vehicle and visible to the driver if the LCD panel or video monitor is used for vehicle information, system control, rear or side observation or navigation. If the LCD panel or video monitor is used for television reception, video, games or DVD play, the LCD panel or video monitor must be installed so that these features will only function when the vehicle is in “park” or when the vehicle's parking brake is applied.

An LCD panel or video monitor used for television reception, video, games or DVD play that operates when the vehicle is in gear or when the parking brake is not applied must be installed to the rear of the driver's seat where it will not be visible, directly or indirectly, to the operator of the motor vehicle.

Warnings

- Do not use any solvents or cleaning materials when cleaning the video monitor.
- Do not use any abrasive cleaners, they may scratch the screen.
- Use only a lightly dampened lint free cloth to wipe the screen if it is dirty.
- Lock the LCD screen in the fully closed position when not in use.
- Before putting on headphones always adjust the volume setting to the lowest position.
- Remember to leave the dome light switch in the off or auto positions when the vehicle is unattended, as the dome lights, if left on, can drain the vehicle's battery.
- Do not put pressure directly on the screen as damage may occur. Caution children to avoid touching or scratching the screen since system malfunction due to physical panel damage will not be covered under warranty.

Patented: Refer to www.voxxintl.com/patents

Safety Precaution

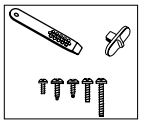
For safety reasons, when changing DVD based video media, it is recommended that the vehicle is not in motion, and that you do not allow children to unfasten seat belts to change DVD's or make any adjustments to the system. System adjustments can be performed by using the remote control, while seat belts remain fastened. Enjoy your entertainment system but remember the safety of all passengers remains the number one priority.

Table Of Contents

Materials Included In This Package....6
Installing The Unit In A Vehicle....8
Installing The Snap-On Shroud....9
Installing The Snap-On Screen Cover....10
Installing The Trim Ring....11
General Vehicle Installation Approach....12
Vehicle Preparation....13
Connecting The Dome Lights....14
Installing The Mounting Bracket....16
Installing the System - Wiring Diagram....17
Installing the System - Mounting the Unit....19
Appendix A - Removing The Screen Back Cover....20
Appendix A - Removing The Trim Ring and Shroud....21
Appendix B- Installing The Optional SmartStream Module (WM1)22
Troubleshooting....23

Materials Included In This Package

1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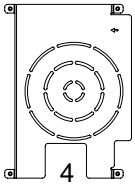
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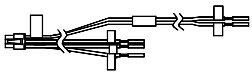
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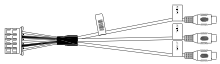
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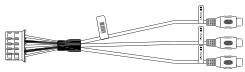
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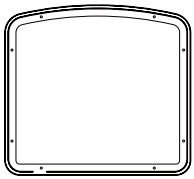
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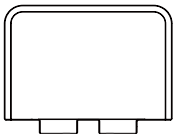
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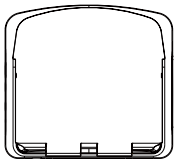
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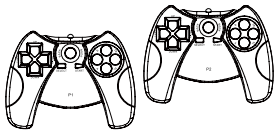
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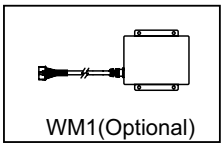
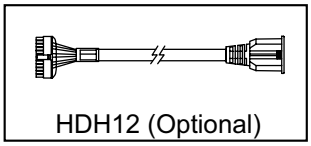

WM1(Optional)


HDH12 (Optional)

1. 10.1" Vehicle Entertainment System - (1 pc)
2. Hardware Package (P/N 540-017) - (1 pkg)
   - M3 x 5mm Phillips Screws - (12 pcs)
   - #8 x 3/8" Self Drilling Screws - (4 pcs)
   - M5 x 10mm Phillips Screws - (4 pcs)
   - M5 x 20mm Phillips Screws - (4 pcs)
   - M5 x 40mm Phillips Screws - (4 pcs)
   - Pry Tool and Slide Knob for Dome Light Switch (P/N 540-018) - (1 pc)

Materials Included In This Package

CAUTION: ***The 10mm, 20mm and 40mm screws in the hardware kit are provided to facilitate installation of the monitor to the supplied bracket. Use extreme caution when using these screws to avoid damage to vehicle roof or other components, wiring, etc.***

3. Remote Control w/ Battery (P/N 500003) - (1 pc)
4. Mounting Bracket (P/N 201-413) - (1 pc)
5. 6 Pin Power/Dome Light Harness (P/N 112-4270) - (1 pc)
6. 5 Pin AV Input Harness (P/N 112-4259) - (1 pc)
7. 5 Pin AV Output Harness (P/N 112-4260) - (1 pc)
8. Trim Ring - Shale (P/N 306-239) - (1 pc)
   - Pewter (P/N 306-240) - (1 pc)
   - Black (P/N 306-241) - (1 pc)
9. Snap On Cover (Screen Back) - Shale (P/N 306-288) - (1 pc)
   - Pewter (P/N 306-289) - (1 pc)
   - Black (P/N 306-290) - (1 pc)
10. Snap On Cover (Shroud) - Shale (P/N 306-291) - (1 pc)
    - Pewter (P/N 306-292) - (1 pc)
    - Black (P/N 306-293) - (1 pc)
11. Wireless Headphones w/ Batteries (P/N 136-5301) - (2 pcs)
12. Game Controller (P/N 500026 Player 1 & 500027 Player 2) - (2 pcs)
13. Installation Guide & Owner's Manual (Not Shown) - (1 of each)

Optional Accessories:

1. SmartStream Module (Model: WM1 P/N: 600007)
2. HDMI/USB Extension Cable with Connector Port (Model: HDH12 P/N: 103660)

Installing the Unit In A Vehicle

Tools Required

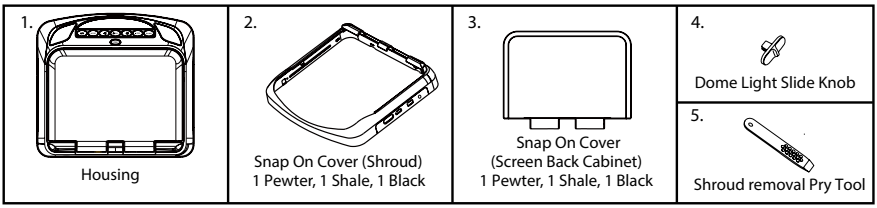
1. #2 Phillips Screwdriver
2. #1 Phillips Screwdriver
3. Utility or Razor Knife
4. Wire Strippers
5. Upholstery removal tools (for removal of panels and pillars as necessary)
6. Electrical Tape
7. Masking Tape
8. Multimeter to verify 12 volt DC and continuity (Do not use a test light or logic probe)
9. Marker pen – to mark headliner for overhead system placement
10. Scribe (to mark trim ring if used)
11. Miscellaneous:
    - Electrical Connectors (to connect to vehicle power source, requirements will vary from vehicle to vehicle)
    - DVD Disc, USB Content and HDMI device (to verify system operation after installation)

Preparation

Place the unit on a soft surface to avoid damaging the plastic.

Installing the Snap On Covers

The Unit is supplied with black, shale and pewter plastic shrouds to allow for a custom installation depending on the vehicles interior color scheme. Choose the desired color and install as follows.



Installing the snap-on shroud

Installing the Shroud

NOTE:** ***Work on a soft surface to avoid damaging the plastic.

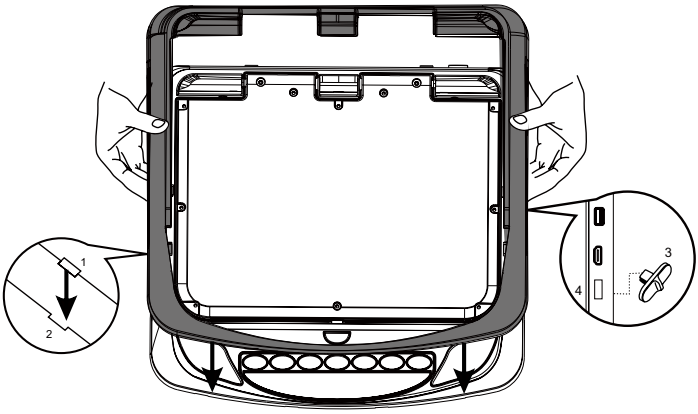
1. Remove the double sided tape backing from the two strips on the center section of the shroud.

2. Hook the shroud over the dome lights (front of system) and align the shroud tabs (1) with the eight openings around the rim of the system (2).

3. Slide the shroud down until the shroud completely covers the system and that all eight tabs snap into all eight openings around the system (1) & (2).

4. Apply pressure to the center section of the shroud in the area of the double sided tape to ensure that the tape adheres.

5. Locate the Dome light Slide Knob (3) in the hardware package and press it onto the Dome light switch (4) on the side of the System.



Installing the Snap-On Screen Cover

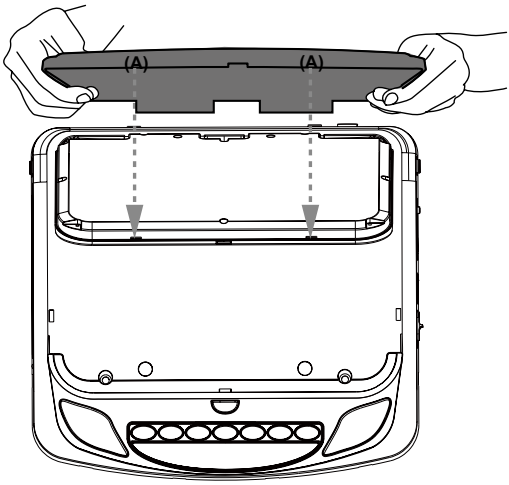
Installing the Screen Cover

1. Open the LCD screen.

2. Hook the two tabs "A" (as shown) on the bottom edge of the screen.

3. Carefully snap the opposite side over the hinge.

NOTE: ***If the wrong color Shroud and Screen Cover is installed, refer to Appendix A of this manual for instructions to change the Shroud and Screen Cover color.***



Installing the Trim Ring

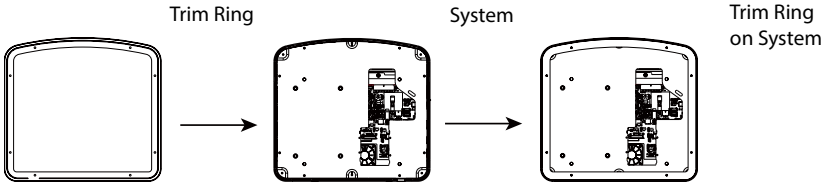
The trim ring is attached to the System using the perimeter screw bosses. It is important that the screws used in this installation are not over tightened, and that the video monitor and trim ring are mounted in such a way that the assembly does not distort (or bend) when the mounting screws are tightened.

There are two trim ring options for mounting the System. One is to use the supplied trim ring for all vehicles with flat headliners (no contour) or a thick trim ring (optional) that can be cut to fit the contour of a headliner that is not flat (see Appendix B of this manual).

NOTE: ***The trim rings supplied with this unit are not designed to be trimmed.***

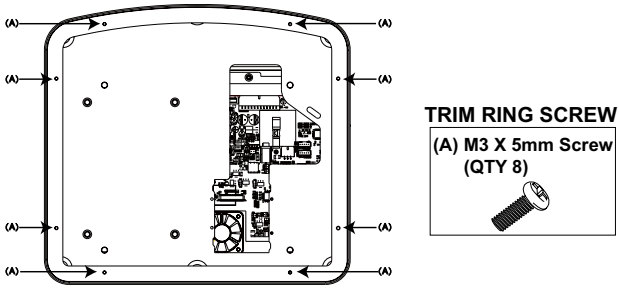
Installing the Trim Ring

1. Turn the System over on a surface with protective covering to prevent scratches.
2. Place the trim ring onto the System. Align the pins on the trim ring with the holes in the metal chassis plate.



3. Locate the eight (8) M3 x 5mm screws in the hardware kit.
4. Using a screwdriver, install the eight (8) M3 x 5mm screws into the locations marked "A" shown in the figure below.

   NOTE: Use caution to not over tighten the screws as the threads may strip out the screw bosses.



General Vehicle Installation Approach

1. 1. Decide upon the system configuration and peripheral options that will be installed with the system (ie...optional **WM1** - SmartStream Module or **HDH12** - 12' HDMI/USB extension harness for remote connectivity of Smartphones or SmartTV devices).

2. Review all manuals to become familiar with electrical requirements and connections.

3. Decide upon mounting locations of all components and method of mounting.

4. Prep the vehicle by removing any interior trim necessary to gain access to vehicle's wiring as well as all areas where interconnecting wire harnesses will need to be located. If any access holes need to be cut into the vehicle (headliner, other trim components etc.), this should be done now as well.

5. Route the wiring harnesses throughout the vehicle as necessary including the wiring for any additional peripheral devices being added to this system. Be sure that all wiring is protected from sharp edges and is routed in such a manner that wiring is not pinched when all components and interior trim are reinstalled. Be sure to leave enough slack in the wiring for each component to allow working room. Avoid routing wiring near or over airbag wiring or airbags.

6. Remove all System components from their packaging and place them loosely in the vehicle at their respective locations.

7. Connect all components together (electrically) and verify proper operation of all system functions.

Note: T*esting of the system is best performed BEFORE the System is mounted to the supplied bracket and BEFORE any optional accessories are permanently mounted.*

8. After verifying proper operation of the system proceed to mount each component.

9. When all components are mounted recheck the function of the entire system again to ensure that no wiring was pinched or connected improperly during final installation.

Vehicle Preparation

1. Locate an accessory +12v power source with a good ground. These wires can be found at the ignition switch or fuse-box.

   Power Source

   - +12v when the key is in the ACC and RUN positions.
   - 0v when the key is OFF.

   NOTE: ***Always fuse the ACC +12V at the source where it is connected to the vehicle.***

2. Some vehicles come equipped with a factory option that places the vehicle in an"Environmental Friendly" mode that shuts down the engine temporarily when the vehicle is not in motion. This may cause this Vehicle Entertainment System to shut down depending on the operating voltage of the vehicle when in this mode. Please note that this system must be connected to a stable ACC +12V power feed. Any voltage supplied to this unit less than +12V could result in performance issues or system shutdown. This is not a defect so take precaution if in fact the vehicle for which this Vehicle Entertainment System is installed has this factory option.

3. The mounting method and location will vary from vehicle to vehicle, The only focus of this manual is to provide proper installation guidance for this system.

4. Generally, the best location for the video monitor is where the vehicle's factory dome light is installed. The monitor should be located in such a manner that it can be comfortably viewed by rear seat passengers.

   NOTE: *Never install the monitor in a place within the driver's view. This is not only dangerous, but it is also illegal in many states.*

5. Once the mounting location of the System has been determined, additional preparation work may be necessary depending on the vehicle structure and installation method. Some of the steps that may be required are:

   a. Removal of the vehicle's dome light.

   b. Cutting an opening in the headliner to install the mounting bracket.

   c. If the optional Thick Trim Ring will be used, it may have to be trimmed to fit the contour of the vehicle's headliner. Refer to Appendix B Installing the Optional Thick Trim Ring.

Connecting the Dome Lights

The dome lights in the System require three connections to the vehicle's wiring. There are two common types of dome light circuits used, positive switched systems or negative switched systems. Positive switched systems supply voltage to the dome lights to turn them ON. Negative switched systems apply ground to turn on the dome lights.

To determine which system you have, locate the wires at the dome light:

- On a positive switched system, with all the doors closed and the lights out, both wires at the dome light will rest at ground. When the light is activated, one of these wires will switch to +12 VDC. This is the vehicle's switching wire Lamp auto.

- On a negative switched system, with all the doors closed and the lights out, both wires at the dome light will rest at +12 VDC. When the light is activated, one of these wires will switch to ground. This is the vehicle's switching wire Lamp auto.

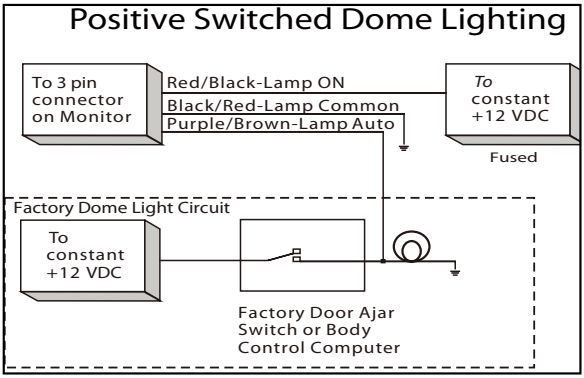
For positive switched systems, connect the Purple / Brown (Lamp Auto) wire to the vehicle's switched wire. Then connect the Red / Black (Lamp ON) wire to a fused constant 12 volt source and the Black / Red (Lamp Common) wire to a good ground. Positive switched systems are commonly found on Ford vehicles.

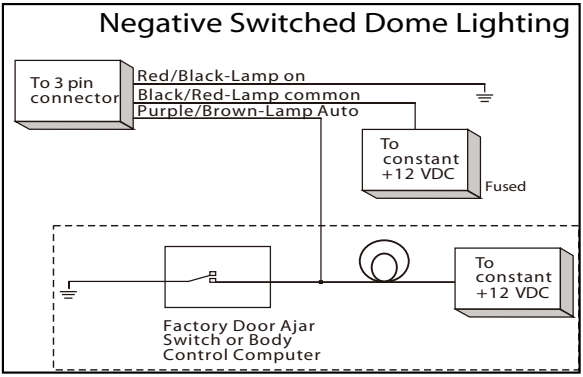
For negative switched systems, connect the Purple / Brown (Lamp Auto) wire to the vehicle's switched wire. Then connect the Red / Black (Lamp On) wire to a good ground and the Black / Red (Lamp Common) wire to a fused constant 12 volt source. Negative switched systems are commonly found on General Motors and import vehicles.

NOTE: ***Some vehicles which incorporate transistorized control of the dome light circuit, may require that the Purple / brown (Lamp Auto) wire be connected to the door pin switch wire , as the additional current draw of the monitor's lights may not be supported by the output of the vehicle's body control computer.***

After wiring the dome lights, make sure the dome lights operate properly with doors opening and closing and that they are not always on. Do n ot leave the dome lamp switch on the DVD overhead in ON position as this will drain the battery over time.

Connecting the Dome Lights





Installing the Mounting Bracket

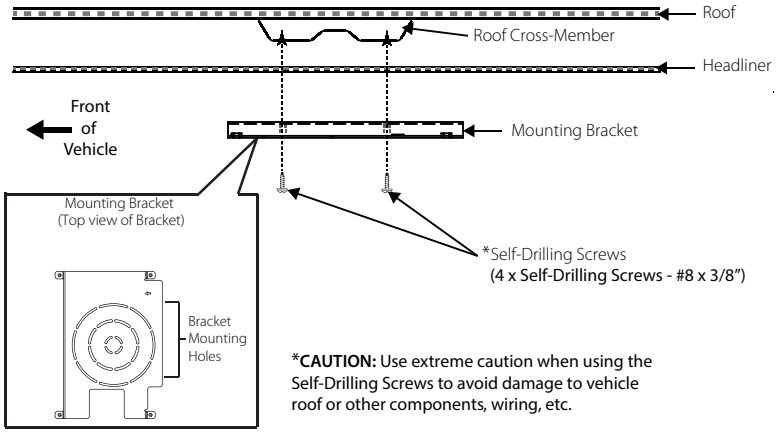
Installing the Mounting Bracket

1. Once all the pre-wiring is complete, locate:
   - Mounting Bracket
   - (4) #8 x 3/8" Self-Drilling Screws
2. Carefully align the Mounting Bracket in the location it is to be installed with the direction arrow facing the front of the vehicle (make sure there is nothing between the Mounting Bracket and Roof Cross-Member).

   NOTE: *The headliner may need to be cut to install the bracket. When cutting the headliner, make sure there are no wires above the headliner which may be accidentally cut.*

3. While holding the Mounting Bracket in place, install the 4- #8 x 3/8" Self-Drilling Screws.

CAUTION: Be sure that the Self-Drilling Screws do not pierce the outer roof skin when fully fastened to the Roof Cross-Member.



WARNING: Any use of a mounting substrate other than the supplied bracket may result in performance issues. The supplied bracket was designed to ensure this Mobile Video System is properly installed without adding any strain or stress to the system which could result in unit operation problems.

Installing the System - Wiring Diagram

1. Connect the 6 pin harness to the unit and make the connections to the vehicle.

2. Connect the red and black power wires of the Power Harness to vehicle's electrical system by connecting into a stable accessory +12v feed and a good ground. Soldering all power connection is the suggested technique that should be used to ensure a problem free connection.

3. If connecting an external input source, connect the 5 Pin AV Input Harness (112-4259 Blue Connector) to provide AV signal input to the system.

4. If connecting to an external source, such as another Vehicle Entertainment System or the vehicles in-dash entertainment system, connect the 5 Pin AV Output Harness (112-4260 White Connector) to provide AV signal output from the system.

5. Extend the Wireless FM Transmitter antenna toward the vehicles FM antenna for optimal performance . The unit is also equipped with a 3.5mm FM Output to hardwire the Systems internal FM Modulator into the vehicles antenna system if wireless FM performance is poor (optional FMDIRB required).

6. Verify all system functions before final mounting of the finished assembly.

Input/Output Source Options:

- Internal User Accessible Inputs

  DVD/ USB/ GAME/ HDMI 1

- External Hidden Source Inputs & Outputs

  AV Input - via supplied harness 112-4259

  AV Output - via supplied harness 112-4260

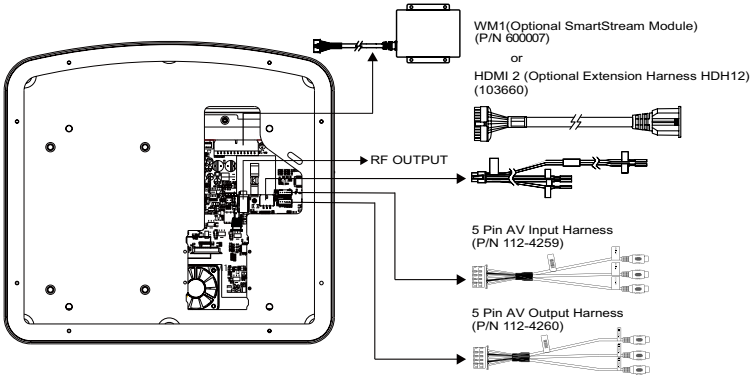
  SmartStream - Wireless Content Streaming via optional SmartStream module (WM1)*

  HDMI 2 - Remote HDMI/USB connection via optional cable (HDH12)

NOTE: *SmartStream and HDMI 2 are source inputs that connect to the System via the 24-Pin connector located on the top of the unit. This connection must be made during installation and only one of these accessories can be connected to the System at one time.*

Installing the System - Wiring Diagram

Wiring Diagram



NOTE: The Hidden 24 Pin connector only allows connection of either optional SmartStream Module (WM1) or HD/USB Extension harness (HDH12).

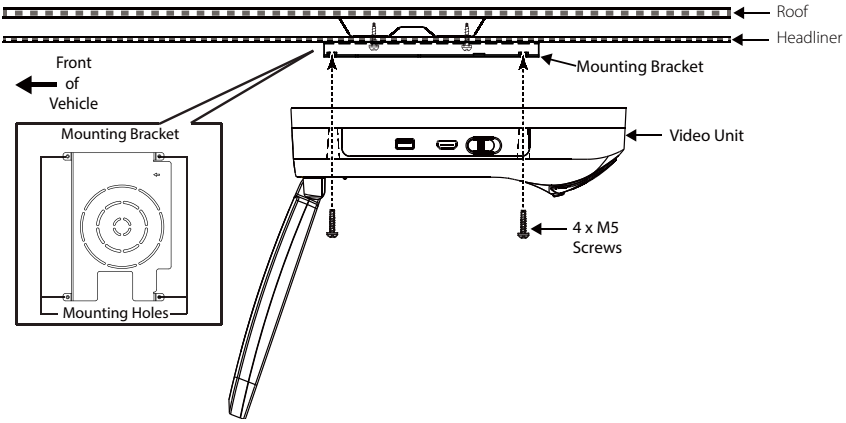
Installing the System - Mounting the Unit

Installing the System

1. Make all electrical connections.
2. Attach the Unit to the mounting bracket using four M5 screws.

CAUTION: *The M5 screws are supplied in three different lengths (10mm, 20mm and 40mm) to facilitate proper installation. Use extreme caution when using these screws to avoid damage to vehicle roof or other components, wiring, etc.*

WARNING: Do not trap any bulk wiring or other accessories such as filters between the supplied bracket and the unit. Any such items can block air flow in addition to placing pressure on the top of the unit which could lead to DVD playback, loading and eject issues. Be cautious to not overtighten any of the 4 mounting screws. Overtighting the mounting screws in one of the four corners can twist and flex the unit leading to DVD playback, loading and eject issues in addition to the latched-closed and unlatch-open monitor operation.



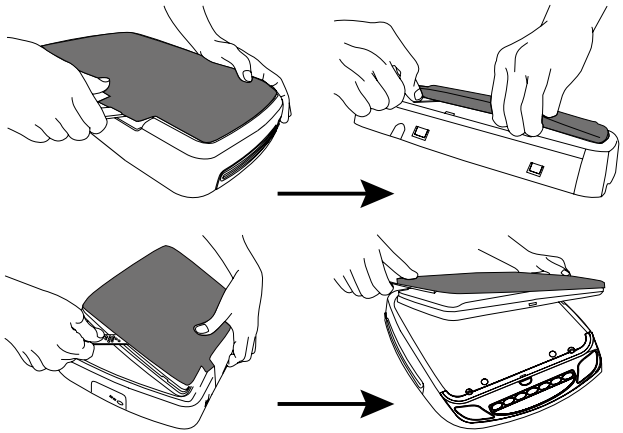
Appendix A - Removing the Screen Back Cover

This section is intended for situations where the color of the Shroud, Screen Cover and Trim Ring need to be changed after the unit is setup for installation.

NOTE: ***Work on a soft surface to avoid damaging the plastic.***

Removing the Screen Back Cover

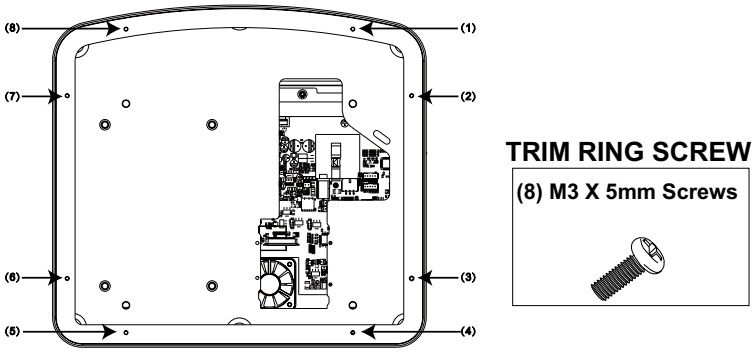
1. Starting from the back of the unit, carefully insert the supplied pry tool between the Housing and Screen Back Cover
2. Press the pry tool to release the Screen Back Cover.
3. While lifting the Screen Back Cover, slide the pry tool around to the attaching areas and press the pry tool to release the Screen Back Cover.
4. Remove the Screen Back Cover and discard.



Appendix A - Removing the Trim Ring and Shroud

Removing the Trim Ring

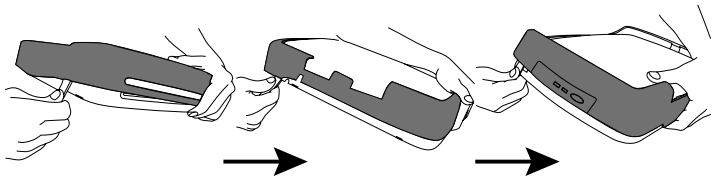
1. Remove the Trim Ring screws ((8) M3 x 5mm screws).
   NOTE: ***Do not Discard Screws! These screws are used to attach the new Trim Ring.***
2. Remove the Trim Ring and discard.



Removing the Shroud

1. Using the supplied pry tool, remove the slide knob from the dome light switch located on the side of the System.

   NOTE: ***Do not Discard knob! The knob is reused.***
2. Open the screen and insert the supplied pry tool between the Housing and Shroud and disengage the tape on the center section of the shroud.
3. Press the pry tool to disengage the attaching Shroud clips.
4. Continue disengaging the attaching areas around the unit removing the Shroud and discard.



Appendix B - Installing the Optional SmartStream Module (WM1)

This section is intended as an installation guide to connect the WM1 Module to the Unit

NOTE: The WM1 Module is sold separately and is supplied with its own instruction manual.

Installing the WM1 Module

1. Turn the System over and place it on a surface with a protective covering to prevent scratches.

2. Begin looping the excess WM1 Module harness under the protective top plate towards the back of the System as shown.

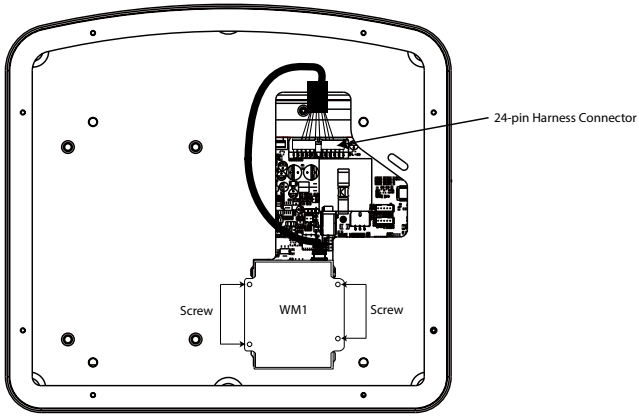
3. Place the WM1 Module onto the mounting standoffs.

4. Locate the four M3 x 5mm Screws in the Unit hardware kit.

5. Using a screwdriver, install the four screws into the four locations shown.

   NOTE: ***Use caution tightening screws as the threads may strip in the assembly.***

6. Insert the 24-pin connector of the WM1 Module harness into the location shown..



Back of Unit

Troubleshooting

SYMPTOM:	REMEDY:
No power at video monitor	• Verify +12 VDC on the Red wire at 6 Pin Power/ Dome Light Harness behind the video monitor. Verify a ground connection with a continuity test from a known good ground to the black wire.
Power but no video or sound	• Verify that the Source is on and playing back compatible media content.
Disc will not play or wrong region is displayed	• Check to ensure the disc was put in with the correct side for playback (Label side up/shiny side down). ***NOTE: The DVD system only plays digital video discs, audio CDs and MP3s.*** • Both the unit and the disc are coded by region. If the regional codes don't match, the disc can't be played. This DVD player is set to Region 1.
IR Wireless Headphones do not work	• Check if batteries are installed correctly. • Make sure that the headphone batteries are fresh. • Check if Power Button lights up when pressed. If Power Button does not light up when pressed, change batteries. • If using Dual Channel Wireless Headphones, make sure the correct channel is selected. • Make sure the IRT power is ON. Press the IRT ON/ OFF button on the remote control and IRT ON or IRT OFF is displayed.

Troubleshooting

SYMPTOM:	REMEDY:
FM Transmitter does not work	• Check if radio is ON and in FM mode. • Check that radio is tuned to the same frequency as the unit is set to. • Select another FM channel. • Reposition the Unit Wireless FM antenna for better reception. Optional Module FMDIRB will allow the internal FM Transmitter to become a hardwired FM modulator. This option will provide the best FM connection to the vehicle radio.
Remote Control does not work	• Check if the battery is installed correctly. • Make sure that the remote control battery is fresh. • The remote control is a dual function remote control, make sure M1/M2 is selected correctly to match the M1/M2 mode of the System.
HDMI source does not work with smartphone	• A special adapter is required to connect a smartphone to the HDMI input. Contact the smartphone service provider for ordering information on the appropriate adapter.

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