

SMART DIGITAL ADAPTER

Installation Guide



XMDGM100
Smart Digital Adapter for GM Car Radios

TERK®

Introduction::

Smart Digital Adapter

Use in conjunction with an XM universal tuner box, the XMDGM100 Smart Digital Adapter allows you to adapt an existing GM satellite radio ready car stereo to receive XM Satellite Radio service.

Important Note::

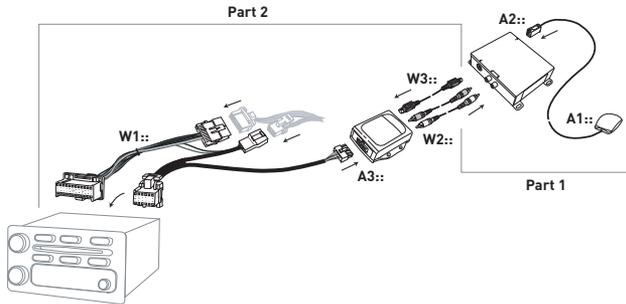
The XMDGM100 can be installed in vehicles that have adequate GM Class II radios. GM Class II radios are available as standard equipment in some models or as optional equipment in other models. Visit www.terk.com/xmdirect to review the most updated car model compatability list.

Installation Overview::

The XMDGM100 is an easily connected plug and play device and does not require the splicing or cutting of existing wiring within the vehicle. These step-by-step instructions illustrate in detail two typical GM installations. Depending on your car model an alternate installation may be necessary, but because of the plug-and-play nature of the product all installations are similar to the ones illustrated.

Introduction:: (continued)

Smart Digital Adapter



Part 1:: XM Direct – Universal Tuner Box

- A1 :: Micro antenna with single output
- A2 :: Universal XM Tuner Box

Part 2:: XM Direct – Smart Digital Adapter

- A3 :: Smart Digital Adapter – this is a small black box that converts the XM signal to the protocol of the head unit.
- W1 :: Cable harness specific to the protocol of the head unit
- W2 :: Red and white audio RCA cables
- W3 :: 8 pin din cable

Installation Basics::

When choosing a location to mount the components, care must be taken not to interfere with any of the vehicles existing systems. Good installation practices should be observed when mounting components to avoid any vibration, movement or rattling after installation. Components should be secured in place with methods such as Velcro, double stick foam tape, screws and nuts, cable ties etc. All mounting hardware and methods are at the discretion of the installer. Cables should also be secured in place to avoid movement. Care should be taken not to crimp any of the cables when installing them. And special care should be taken not to route cables on or near sharp edges that could eventually cut into the jacket of the cable.

Installation Planning::

Typically the XM tuner should be located within 3 feet of the rear of the radio due to harness and cable lengths. The antenna should be located in an area to insure the cable will reach the tuner location. Check this prior to installation. The installation guide XM-RVR-D-001 supplied with your XM tuner and antenna has additional information on antenna location and installati

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The following step-by-step instructions illustrate in detail two typical GM installations. The images on the left are for a typical SUV installation. The images on the right are for a typical Sedan installation.

STEP 1

REMOVE DASH BOARD TRIM BEZEL TO ACCESS RADIO



STEP 2

REMOVE MOUNTING SCREWS AND PULL OUT RADIO



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STEP 3

UNPLUG EXISTING CONNECTORS AND ANTENNA CABLE AND REMOVE RADIO. INSTALL LARGE AND SMALL CONNECTORS (REMOVED FROM RADIO) INTO HARNESS (W1) SUPPLIED WITH YOUR KIT



STEP 4

INSTALL DIRECT CONNECT ADAPTER BOX (A3) BY INSTALLING WHITE CONNECTOR AS SHOWN.



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STEP 5

INSTALL RED AND WHITE RCA AUDIO CABLES (W2) AND 8 PIN MINI DIN CABLE (W3) INTO OPPOSITE SIDE OF DIRECT CONNECT INTERFACE BOX.



STEP 6

FEED OPPOSITE ENDS OF THE RED AND WHITE RCA CABLE (W2) AND THE 8 PIN MINI DIN CABLE (W3) TO THE SELECTED LOCATION FOR YOUR XM TUNER (A2).



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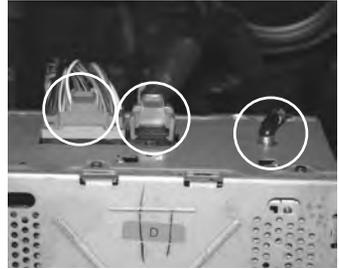
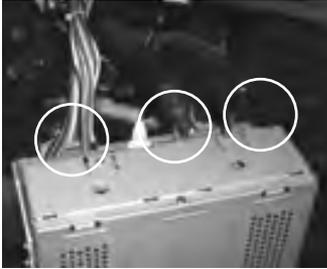
STEP 7

LOCATE AND MOUNT THE ADAPTER BOX (A3) IN SUITABLE LOCATION THAT WILL NOT INTERFERE WITH THE RADIO AND WILL NOT VIBRATE OR RATTLE AFTER INSTALLATION. WE LOCATED THE UNIT IN A SPACE NEAR THE AIR DUCT AND SECURED IT IN PLACE USING VELCRO.



STEP 8

AFTER THE ADAPTER BOX (A3) IS SECURE – CONNECT THE LARGE AND SMALL CONNECTORS FROM THE HARNESS (W1) TO THE BACK OF THE RADIO, AND CONNECT THE ANTENNA CABLE TO THE ANTENNA JACK ON THE BACK OF THE RADIO.



Installation

STEP 9

CAREFULLY LOCATE THE RADIO BACK INTO POSITION. MAKE SURE THAT THE HARNESS DOES NOT BLOCK THE RADIO UNIT OR GET CRIMPED BY THE RADIO WHEN INSTALLING. REPLACE AND TIGHTEN THE RADIO MOUNTING SCREWS. REPLACE THE TRIM BEZEL .



STEP 10

LOCATE AND INSTALL THE MAGNETIC MOUNT ANTENNA (A1) PER THE INSTRUCTIONS SHOWN IN THE XM DIRECT INSTALLATION GUIDE (XM-RVR-D-001). THE IMAGES BELOW SHOW THE ANTENNA MOUNTED ON THE ROOF NEAR THE FRONT WINDOW.



STEP 11

ROUTE CABLE ACCORDINGLY TO THE LOCATION OF THE XM TUNER (A2).



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STEP 12

AT THIS POINT OF THE INSTALLATION THE RED AND WHITE RCA CABLE, THE 8 PIN MINI DIN CABLE AND THE XM ANTENNA CABLE SHOULD ALL BE ROUTED TO THE INTENDED LOCATION OF THE XM TUNER (A2). CONNECT THESE CABLES TO THE UNIVERSAL TUNNER BOX (A2).



STEP 13

LOCATE THE XM TUNER (A2) INTO ITS FINAL MOUNTING POSITION AND SECURE IN PLACE WITH AN APPROPRIATE METHOD TO PREVENT MOVEMENT AND RATTLING.



STEP 14

IF THE GLOVE COMPARTMENT DOOR OR ANY OTHER PART OF THE DASH BOARD HAD BEEN REMOVED PLEASE RETURN IT TO ITS ORIGINAL POSITION. YOUR INSTALLATION IS NOW COMPLETE. YOU MUST NOW ACTIVATE YOUR XM TUNER.

Installation

Upon completion of your installation your XM tuner will need to be activated. Tune the XM tuner to the Preview Channel, channel 1 and follow instructions for activation. You can also call the toll free XM activation number at 1-800-XM-RADIO (967-2346).

XM Satellite Radio Operation

For operation of your radio in the XM mode, please refer to the Audio System Section of your vehicle Owner's Manual. There you find directions on how to use the XM features of your radio and a table which explains the meanings of the XM text display messages.

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