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# SMART DIGITAL ADAPTER

## Installation Guide



XMDPIO110  
Smart Digital Adapter for Pioneer Car Stereos




## Introduction

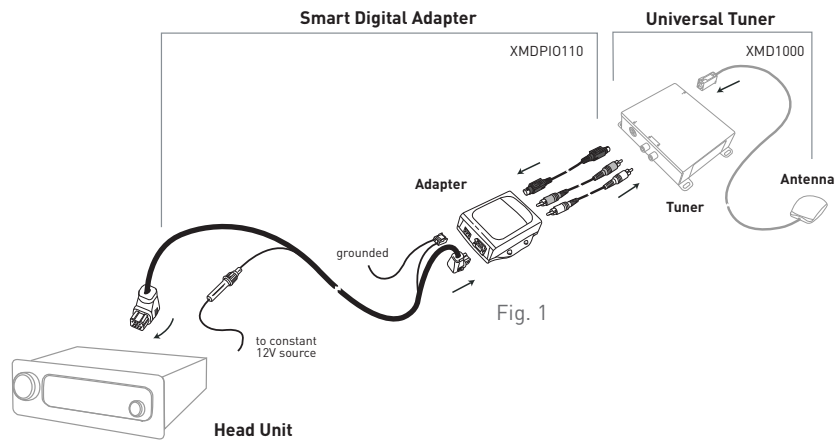
# Smart Digital Adapter

Thank you for purchasing the TERK Smart Digital Adapter for satellite radio ready Pioneer car stereo head units. This product must be used in conjunction with the XM Universal Tuner Box (part # XMD1000) sold separately. The Smart Digital Adapter for Pioneer allows you to adapt a satellite radio ready car stereo to receive XM Satellite Radio service.

### Important Note::

The TERK Smart Digital Adapter for Pioneer car stereo head units is compatible with most Pioneer head units displaying the  logo. For a complete compatibility list go online to [TERK.com/XMDirect](http://TERK.com/XMDirect)

The XMDPI0110 is easy to install plugging directly into the XMD1000 and the Pioneer car stereo head unit\*. The illustration below shows the complete installation of the XM Direct system, including the XMDPI0110 and the XMD1000 into your Pioneer car stereo head unit.



\*IT IS RECOMMENDED THAT A PROFESSIONAL INSTALLER INSTALLS THE XM DIRECT SYSTEM (XMDPI0110 AND XMD1000).

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## Installation Overview

# Smart Digital Adapter

### 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. When routing the cables avoid blocked passages and any obstructions that could kink, crimp, twist, or chafe the cables. 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::

The XMDPI0110 should be located within 2-3 feet of the XMD1000 due to the 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 supplied with your XM Universal Tuner and bundled antenna has additional information on antenna location and installation.

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# Installation

## Smart Digital Adapter

Prior to installation, locate the area where the XM Universal Tuner Box is installed. Make sure you have followed the location requirements for the XM Universal Tuner prior to installing the Pioneer Smart Digital Adapter.

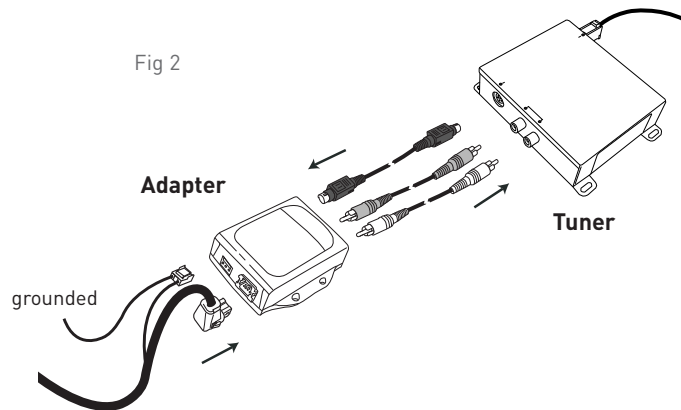
### Step 1

Remove the Pioneer car stereo head unit from your dash board.

Important: Depending on how your Pioneer head unit was installed you may have to remove part or all of your dash board to remove the head unit before the Pioneer head unit can be pulled out. You may also have to remove screws to complete this step.

### Step 2

Connect the red and white audio cables into the red and white connectors on the XM tuner box (XMD1000) as well as the thinner black cable with straight connector. Plug the other end of these three cables into the top of the Pioneer smart digital adapter as shown in Fig 2.



### Step 3

Connect the thick black cable with the right angle connector into the bottom of the XMDPI0110. Make sure you use the right angle connector that has the three pin power plug on that end of the cable. Plug the three pin power plug into the corresponding connector on the bottom of the XMDPI0110 as shown in Fig 2. The short thin black cable coming out of the three pin power plug needs to be grounded. Please secure the end of the cable to a non moving piece of metal.

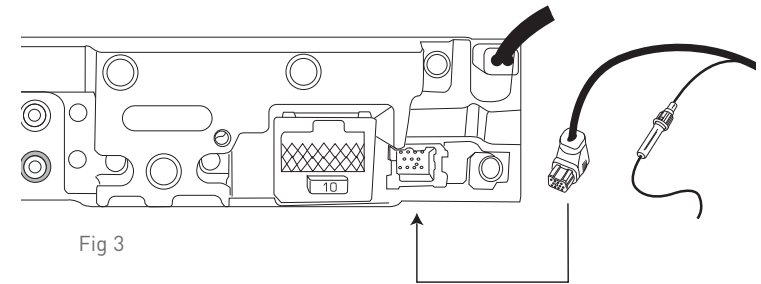
Note: Make sure that all of the cables are connected securely.

# 3

## Smart Digital Adapter

### Step 4

Connect the other end of the thick black cable with the right angle connector into the corresponding connector on the back of your Pioneer head unit. Take the thin power cable with the fuse holder and connect it to a constant 12V power source as shown in Fig 3.



Note: The location of the connectors on the back of the Pioneer head unit may vary by model.

### Step 5

Start your car and turn on your Pioneer head unit to confirm that the XM Direct system is properly connected. When you tune to XM channel 01, you should see "XM Preview" on your Pioneer head unit LCD, and hear that channel through your car speakers. If not, check to make sure all connections are correct or refer to the trouble shooting section of this installation guide.

### Step 6

Mount and secure the XMDPI0110 in a suitable location that will not interfere with the radio and will not vibrate or rattle after installation.

# 4

## Installation (continued)

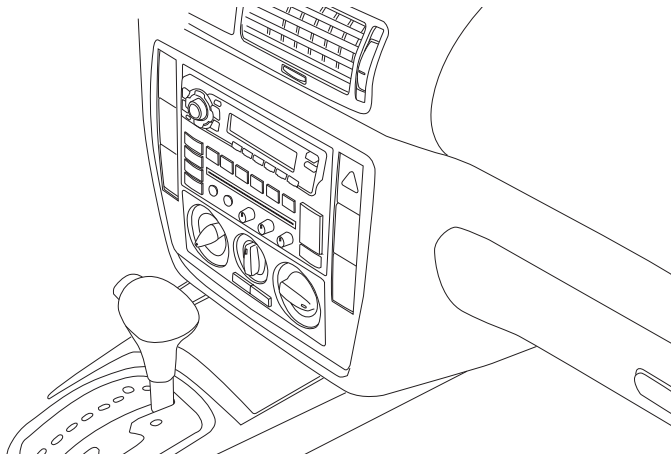
### Step 7

Return the Pioneer car stereo head unit back to its original location in the dash board, be careful with cables that you just installed so that they do not unplug or get kinked by the head unit.

Note: If you had removed screws to pull the Pioneer car stereo head unit out please screw those back in.

### Step 8

If you had removed the dash board during installation please return it back to its original location.



### Completing Activation

Now that your XM Direct system has been installed your XM Universal Tuner will need to be activated. Details on how to operate your head unit in XM mode are listed on the following page. Tune your Pioneer car stereo head unit to the XM Preview Channel, channel 01 and follow instructions for activation. You can also go on-line at XMradio.com or call the toll free XM activation number at 1-800-852-9696. Once you have activated your tuner box make sure the XM antenna on the outside of your car has an unobstructed view of the sky.

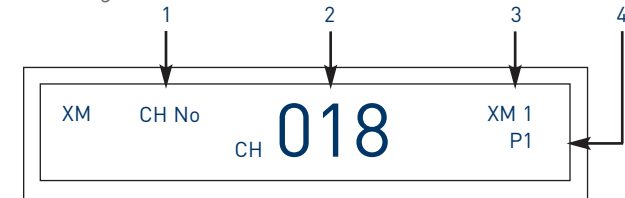
## XM Satellite Radio Operation

Please refer to the "XM Operation" section of your Pioneer head unit operation manual for instructions on your XM satellite radio service. The information contained in the TERK XMDPIO110 operation section listed below is provided as a supplement to your Pioneer manual and is therefore not intended to be a substitution for that information. If more details are required on a particular function please refer to your Pioneer head unit operation manual.

Selecting a XM source

1. Press the SOURCE button to select a XM source.  
Press the SOURCE button repeatedly to switch between the following sources: Built-in CD player—Television—Tuner— XM tuner—Multi-CD player—External unit 1—External unit 2—AUX
2. To turn the unit off press the SOURCE button and hold until the unit turns off.

Listening to XM



The XM information displayed on the Pioneer head unit as shown above is:

1. The channel select mode indicator shows what channel select mode has been selected. CH.No is displayed when CH NUMBER is selected, and CAT is displayed when CATEGORY is selected.
2. The channel number indicator shows to which channel number the tuner is tuned.
3. The band indicator shows the band which has been selected.
4. The preset number indicator shows what preset has been selected.

These are the basic steps necessary to operate XM.

- Press SOURCE to select a XM source.
- Press BAND to select a band.  
Press BAND until the desired band is displayed, XM1, XM2 or XM3.
- Press ◀ or ▶ to select a desired channel.  
The channel number moves up or down step by step.  
Channels that cannot currently be selected are skipped, and the next channel is selected.

## XM Satellite Radio Operation (continued)

Note: If you press and hold ◀ or ▶, you can increase or decrease channel number continuously. You can also select a channel from a desired channel category. (Refer to "Switching the channel select mode", on page 8.)

- Press SOURCE and hold until the unit turns off.

Important: It may take a few seconds before you can hear anything while this unit acquires and processes the satellite signal when you turn power on, change the source to XM tuner, or select a channel.

Note: Display changes as follows when you switch channels or operate in other ways. The text of selected display\* is automatically scrolled. Channel number—Channel name—Selected display \*

\* For details, refer to "Switching the display" on page 8.

Storing and recalling channels

If you press any of the preset tuning buttons 1–6 you can easily store up to six channels for later recall with the touch of a button.

- Memory and recall are for broadcasts. If you recall a memorized broadcast that has been moved to another channel, the channel to which the broadcast was moved is selected.

When you find a channel that you want to store in memory press a preset tuning button 1–6 and hold until the preset number stops flashing.

The number you have pressed will flash in the preset number indicator and then remain lit. The selected channel has been stored in memory.

The next time you press the same preset tuning button 1–6 the channel is recalled from memory.

Notes:

- Up to 18 channels, 6 for each of the three XM bands can be stored in memory.
- When channel number select mode is selected, you can also use ▲ and ▼ to recall channels assigned to preset tuning buttons 1–6.
- If a channel you have recalled cannot be selected, a message is displayed for 2 seconds and the unit returns to the operating status before the channel was recalled.

Switching the display

XM channels each have a channel number and channel name. XM programming also carries a song or program title, artist name and category, when available.

- To change the XM information shown on your display press DISPLAY repeatedly to switch between the following settings:  
Channel name—Artist name/feature—Song/program title—  
Channel number—Channel category

Note: When you switch the display, the text is automatically scrolled.

Scrolling the text in the display

You can scroll the text to the left so that the rest of the text can be seen.

- Press DISPLAY and hold until the text begins to scroll to the left. The rest of the text will appear in the display.

Switching the channel select mode

You can switch from category or channel mode by following the steps listed below. Initially, channel number select mode is selected.

1 Press FUNCTION to select MODE. Press FUNCTION until MODE appears in the display.

2 Press ◀ or ▶ to select the desired channel select mode.

Press ◀ or ▶ repeatedly to switch between the following settings:

CH NUMBER (Channel number select mode)—CATEGORY (Channel category select mode)

Note: Depending on the head unit you are using, it may be possible to directly switch between the channel select modes using the allocated button. For details, refer to the head unit's manual.

## XM Satellite Radio Operation (continued)

Selecting the channel in the channel category

Channels are organized into various program categories, e.g. Rock, Classic, Jazz. You can search between different categories, and then search among channels within each channel category.

1. Select the channel category select mode. (Refer to "Switching the channel select mode" section on page 8.)
2. Press BAND to return to the XM display.
3. Press ▲ or ▼ to select the desired channel category.

Once you select a channel category, the unit searches for channels in that category. During search, the channel category doesn't immediately change even if you press the button. To successively change the channel category, continue pressing the button.

4. Press ◀ or ▶ to select the desired channel in the selected channel category.

Note: If you select a channel of another category by channel recall, etc., during steps 3 and 4, the category selected in step 3 still remains in memory. If you press ◀ or ▶, the channel number moves up or down in the category selected in step 3 regardless of the category of the present channel.

Display the ID code (Radio ID)

Each XM tuner is identified with a unique Radio ID. You will need the Radio ID when activating XM service or when reporting a problem.

- During XM Satellite Radio reception press ◀ or ▶ to select the channel number zero (CH 00).

Channel category select mode

RADIO ID is provided as a channel category for displaying the ID code.

- Press ▲ or ▼ to select the RADIO ID from channel category.

Notes: Display of the ID code repeats displaying RADIO ID and the ID code one after the other.

## Troubleshooting

When problems occur with your XMDirect system, a message appears on the display. Refer to the information below to identify the problem, then take the suggested corrective action.

### ANTENNA

The XM antenna is not connected.

- Check whether the XM antenna cable is attached securely.

A short-circuit occurring in the antenna or the surrounding antenna cable.

- Make sure that there is nothing unusual with the antenna or antenna cable. Turn the ignition off and then on.

### UPDATING

Radio is being updated with latest encryption code.

- Wait until the encryption code updates. Channels 00 and 01 should function normally.

### NOSIGNL

XM signal is being blocked from reaching the XM antenna.

- The message should disappear as soon as you move out of an obstructed area such as an indoor garage. If the problem persists, make sure your antenna is mounted outside and on top of the car with a clear view of the sky.

### LOADING

Unit is acquiring audio or program information.

- Wait until the unit has received the information.

### OFF AIR

The channel currently selected has stopped broadcasting.

- Automatically switches to valid channel. No action needed.

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There is no artist name/feature, song/program title, or channel category associated with the channel at that time.

- No action needed.

### Other Symptoms

Should any problem persist after you have made the following checks, call TERK for help at 1-800-942-TERK (8375) on any business day, between 9 A.M. and 5:30P.M., EST and ask for Technical Support.

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