3-243-168-12 (1) SONY

XM Satellite Radio Receiver

Operating Instructions

Owner's Record

The model number is located on the bottom and serial number also on the bottom. Record the serial number in the space provide below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. XT-XM1 Serial No. XM Radio ID

You need to subscribe for XM[™] Satellite Radio Service to listen to the radio broadcast.



XT-XM1

Sony Corporation © 2002 Printed in Japan

WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the
- receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

If you have any questions or problem concerning this product, consult your nearest Sony

If you have any questions or problem concerning the XM Satellite radio service including the

The XM Radio ID (XM-ID) is required when consulting XM. It is located on the bottom of the main unit, and you can also check it in the display of this unit (see "Displaying the XM Radio

Welcome!

Thank you for purchasing the Sony XM Satellite Radio Receiver. The receiver allows you to:

- Receive XM Satellite Radio programming (with subscription) by connecting a Sony master
- unit* compatible with the Sony BUS system. • Connect and use an optional ČD or MD
- changer. · Receive up to 100 channels of XM programming.
- Display channel name, artist name, and song title for most XM channels.
- Store up to 20 favorite XM channels.
- Search XM channels by category.
- * Some master units may not be connected to this

Introducing XM™ Satellite Radio

There's a world beyond AM and FM. XM Satellite Radio. Up to 100 channels. Coast-to-Coast Coverage. Digital quality sound. With many commercial-free music channels. Plus, the best sports, comedy, talk, news and entertainment, including USA Today, Discovery Radio, NASCAR, Sesame Workshop, CNNfn. Questions? Visit www.xmradio.com. The future

How to Subscribe

Listeners can subscribe by visiting XM on the Web at www.xmradio.com or by calling XM's Listener Care at (800)852-9696, Customers should have their Radio ID ready; it is located on the bottom of the main unit, and you can also check it in the display of this unit (see "Displaying the XM Radio ID").

Technology. It is prohibited to copy, decompile, disassemble, reverse engineer or manipulate any technology incorporated in receivers compatible with the XM Satellite Radio system. Furthermore, the AMBE® voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc. The user of this or any other software contained in an XM Radio is explicitly prohibited from attempting to copy, decompile, reverse engineer, or disassemble the object code, or in any other way convert the object code into human-readableform. The software is licensed

Getting Started

solely for use within this product.

Resetting the master unit

Before operating the XM receiver for the first time, reset the master unit. If the unit is not reset in this manner, it may not function properly. For details on how to reset it, refer to the operating instructions of the master unit.

For the following master units, press the Repeat (REP) button of the master unit for two seconds after turning the XM on and select "setup 2." Without this procedure, the master unit will not display tuning-in information from the receiver correctly. Except for the following master units, "setup 1" is selected in the factory settings.

CDX-C8050X CDX-M750 CDX-M650 CDX-M610 CDX-M600 MDX-C800REC* MDX-C8500X XR-M550

 You may observe flickering in parts of the display while performing operations. This is not malfunction.

Note

Resetting the master unit will erase the clock setting

and some stored contents of the master unit

Basic Operations

Listening to a program

The XM receiver is controlled by the master unit. Button locations vary with different master unit models. Please refer to the master unit instruction manuals

1 To select XM:

a. Press the Source button until "XM" is displayed.

b. Press the Source button until "MD" is displayed, then press the Mode button to select XM. For master units which can control more than one MD changer, press the Mode button repeatedly (the display will show "MD1," "MD2," etc.) until the receiver is found.

2 Press either Seek button to select the desired channel.

Pressing and holding the Seek button will

quickly step through the channels.

"LOADING" is indicated while the receiver is reading

Display items

The XM Satellite Radio information (Channel Name, Channel Number, Artist Name/Program Name and Song Title) is available on the display.

Press the Display (DSPL) button. Each time you press the Display (DSPL) button, the item changes as follows:

Channel Name → Channel Number → Artist Name/Program Name → Song Title → For MEX-5DI, press the ENTER button of the remote control to change the display item.

- While Artist Name/Program Name or Song Title is displayed, if you select a channel, Channel Name will be displayed for 2 to 3 seconds and then return to the previous display.
- If there is no information about Artist Name/ Program Name or Song Title, "----" will be displayed.
- During XM Satellite Radio reception, Spectrum Analyzer, Dual Information, Motion Display function of the master unit cannot be operated
- The display indicates up to 8 characters. The characters on the display cannot be scrolled even when the Auto Scroll function of the master
- You cannot display the clock during XM Satellite Radio reception on a master unit whose clock display is shown by pressing the Display (DSPL)

Using category search to locate channels

Each XM channel is associated with a category that describes the type of music or programming that is played on the channel. Examples of categories include "rock," "jazz," "news," and so on. Users unfamiliar with XM's programming may use the radio's search-by-category function to select channels.

1 Press the Repeat (REP) button to enter category search mode.

The category of the current channel is displayed. With some master units, the Repeat button is only equipped on the remote

- 2 Press the Disc/Preset buttons repeatedly until you find the desired category.
- 3 Press the Seek buttons repeatedly until you find the desired channel in that category.

The display shows "CAT SRCH" to indicate that the radio is in category search mode. While in this mode, you will only be able to tune to channels in the selected category. You may use the Disc/Preset buttons to choose other categories.

4 To exit from category search mode and return to the normal mode, press the Repeat (REP) button.

The radio automatically returns to the normal mode if there no key is pressed within 5

Storing favorite channels

You can preset up to 20 channels.

- 1 Tune in a channel that you want to store.
- 2 Press the Shuffle (SHUF) button.

The radio will show a list of presets, starting with preset number 1. The preset number will be shown if a channel has already been stored into the preset. With some master units, the Shuffle button is only equipped on the remote

3 Press the Disc/Preset button to select a preset number.

With some master units, the Disc/Preset button is only equipped on the remote

4 Press the Disc/Preset + (Disc +) button for 2 seconds.

The display shows "MEMORY" if the radio successfully stores the channel into the preset. The display shows "FAILURE" if the radio fails to store the channel into the preset. The radio automatically returns to the normal mode if there no key is pressed within 5 seconds

Receiving a stored channel

- · Press either Disc/Preset button to select the preset channel you want to listen to.
- · Press the Shuffle (SHUF) button. Press the Disc/Preset + (DISC +) button to select the preset channel and then press the SEEK + or SEEK - button to

Displaying the XM Radio ID

- 1 During XM Satellite Radio reception, press the Seek button to select "CHANNEL 1."
- 2 Press the "Seek (down)" button. "RADIO ID" is indicated for 2 seconds and the XM Radio ID number is indicated for 10 seconds. These indications will be displayed alternately.

To cancel the XM Radio ID display, press the Seek button to select a channel.

Additional Information

Specifications

Dimensions

2332.5 - 2345.0 MHz Power requirements 12 V DC car battery (negative ground) **BUS** control output Outputs Audio output Antenna input (Satellite, Inputs

> BUS control input Audio input $224\times37.\hat{8}\times160~mm$ $(8^{7}/_{8} \times 1^{1}/_{2} \times 6^{3}/_{8} \text{ in.})$ (w/h/d)

> > connection (1 set)

Terrestrial)

Mass Approx. 1.0 kg (2 lb. 4 oz.) Parts for installation and Supplied accessories

Design and specifications are subject to change without notice

Troubleshooting

Should any problem persist after you have made the following checks, consult your nearest Sony dealer. Consult XM if you have any questions or problem concerning the broadcast service of the XM Satellite radio.

The information on the display cannot be changed during XM Satellite Radio reception. • Refer to "Caution" in "Getting Started."

- · Adjust the volume control of the master unit. Cancel the attenuate function of the master
- The connecting cords are not connected properly.

The sound is hampered by noises. Locate codes and cables such as an antenna

code, a BUS cable, an RCA pin code, or a power code so as they do not interfere each The channels cannot be received.

Check the connection of the receiver and the

Advisory Message

When a problem occurs with the receiver, an error message will be indicated on the display of the master unit.

ANTENNA

The antenna is not connected properly. → Check the connection of the receiver and

the antenna. **UPDATING** You have not subscribed to XM, or the channel

is not authorized.

→ You need to subscribe to XM.

XM signal is too weak.

→ Move to another area where your system can receive the signal.

OFF AIR

information

The channel is not broadcasted now. → Select another channel.

The receiver is reading the channel

LOADING

→ Wait until the receiver completes receiving

the information. "---" or "CH---"

• The channel to be tuned-in is void due to the change by the broadcast service, or the receiving condition is not good.

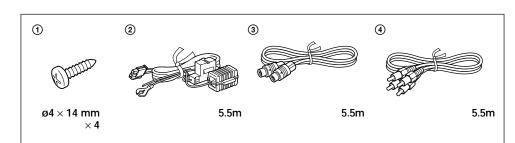
· There is no text information or time information in the channel. This is not an

http://www.sony.net/

Installation

Parts list

The numbers in the list are keyed to those in the instructions.

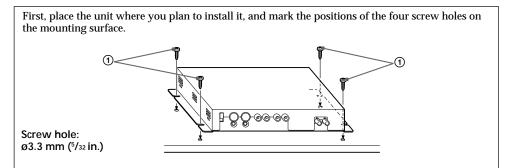


Precautions

- \bullet Choose the mounting location carefully, observing the following: The unit is not subject to temperatures exceeding 55°C (131°F) (such as in a car parked in direct sunlight).
- The unit is not subject to direct sunlight.
 The unit is not near heat sources (such as heaters).
- $\boldsymbol{-}$ The unit is not exposed to rain or moisture.
- The unit is not exposed to excessive dust or dirt.
- The unit is not subject to excessive vibration.
- The fuel tank should not be damaged by the tapping screws.
- There should be no wire harnesses or pipes under the place where you are going to install the
- The spare tire, tools or other equipment in or under the trunk should not be interfered with or damaged by the screws or the unit itself.
- Be sure to use only the supplied mounting hardware for a safe and secure installation.
- Use only the supplied screws.

Installing the unit

- $\bullet \mbox{Mount the unit either inside the trunk or under a seat.}$
- $\bullet \ Choose \ the \ mounting \ location \ carefully \ so \ the \ unit \ will \ not \ interfere \ with \ the \ normal \ movements \ of$ the driver and it will not be exposed to direct sunlight or hot air from the heater.
- \bullet Do not install the unit under the floor carpet, where the heat dissipation from the unit will be considerably impaired.



- Use only the supplied screws.
- Be sure not to damage the fuel tank or brake line with the tapping screws.

Fuse replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction.

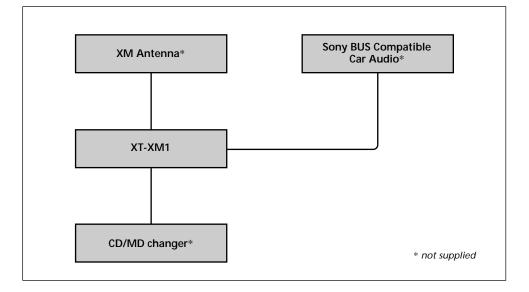
Warning

Use a fuse with the specified amperage rating.

Use of a higher amperage fuse may cause serious damage.

Connection

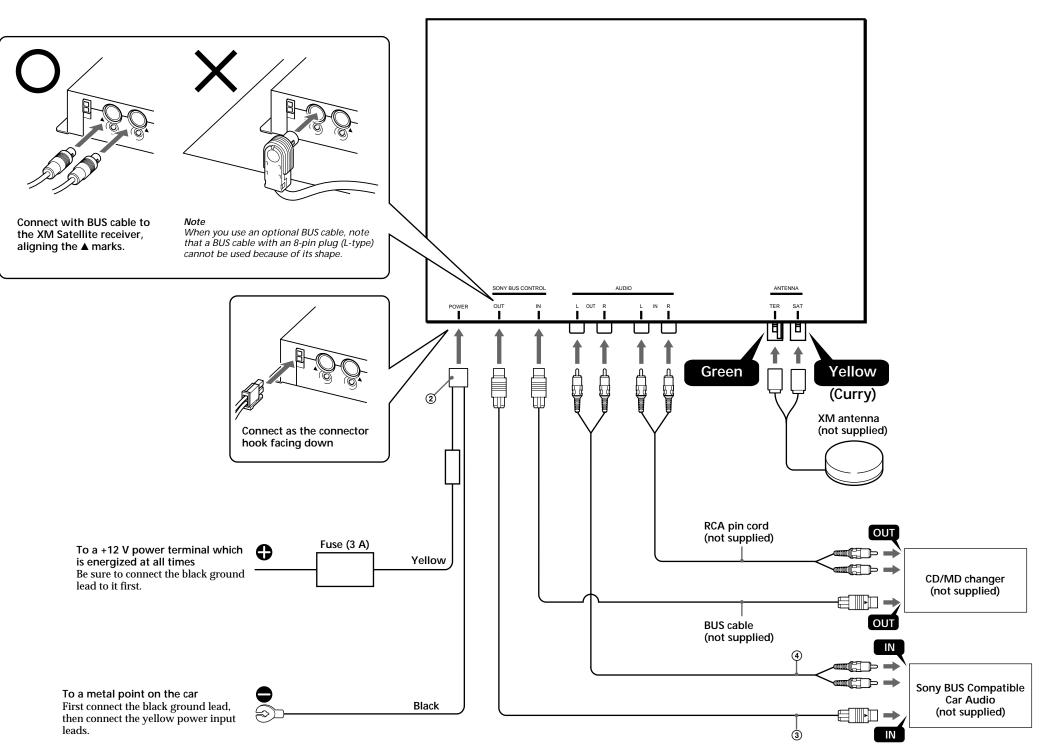
Connection example



Cautions

- \bullet This unit is designed for negative ground 12 V DC operation only.
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the **yellow** power input cord only after all other cords have been connected.
- Run all ground leads to a common ground point.

Connection diagram



Locate the power cord and the RCA pin cord as far away as possible.