Welcome!
Thank you for purchasing the Sony XM Satellite Radio Receiver. The receiver allows you to:— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. — Connect the equipment to another power source so as they do not interfere each other.

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 provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No: XT-XM1
Serial No: 3-243-168-11

You need to subscribe for XM® Satellite Radio Service to listen to the radio broadcast.

INTRODUCING XM® SATellite Radio

How to Subscribe
Listeners can subscribe by visiting XM on the Web at www.xmradio.com or by calling XM’s Licensed Call at (888) XM-8-XM. 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 incorporated 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-readable form. The software is licensed solely for use within this product.

Getting Started
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.

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

CDX-CB500X
CDX-CB5000X
CDX-M750
CDX-M550
CDX-M450
CDX-M600
MCD-C5500X
XR-M500

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

Notes
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 to select “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.

3 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,” “pop,” “news,” and so on. Users unfamiliar with XM’s programming may use the radio’s search-by-category function to select channels.
   a. Press the Repeat (REP) button to enter category search mode.
   b. The category of the current channel is displayed. With some master units, the Repeat button is only equipped on the remote control.
   c. Press the Disc/Preset buttons repeatedly until you find the desired category.
   d. Press the Seek/Preset 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 different 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 no key is pressed within 5 seconds.

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 items change as follows:
Channel Name – Channel Number – Artist Name/Program Name – Song Title – “LOADING” is indicated while the receiver is reading the information.

Notes
- While Artist Name/Program Name or Song Title is displayed, the channel 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, and remote control 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 unit is set to on.
- You cannot display the clock during XM Satellite Radio reception on a master unit whose clock display is shown by pressing the Display (DSPL) button.

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 control.
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 control.
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 “UPDATE” if the radio fails to store the channel into the preset. The radio automatically returns to the normal mode if 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 start.

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.
   “XMID 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
Frequency
232.3 – 234.5 MHz
12 V DC (car battery, negative ground)
Power requirements
Outputs
Inputs
Antenna input (Satellite, terrestrial)
BUS control output
Audio output
Dimensions
Mass
Approx. 3.0 kg
Supplied accessories
Parts for installation and connection (1 set)
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.

The receiver is reading the information.

No sound.
- Adjust the volume control of the master unit.
- Cancel the automatic function of the master unit.
- The connecting cords are not connected properly.
- The sound is hampered by noises. Locate cords 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 other.

The antennas cannot be received.
- Check the connection of the receiver and the antenna.

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

ANTENNA
- The antennas 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 tunable.
- You need to subscribe to XM.

NO SIGNAL
XM signal is too weak.
- Move to another area where your system can receive the signal.

OFF AIR
The channel is not broadcasted.
- Select another channel.

LOADING
The receiver is reading the channel information.
- Wait until the receiver completes receiving the information.

- “- - - -” or “- - - -”
- The channel to be tuned in is void due to the change of the broadcast service, or the receiving condition is not good.
- There is no text information of title for most XM channels.

http://www.sony.net/
**Installation**

### Parts list

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

![Parts list image](image)

### Precautions

- 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).
  - 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 unit.
  - 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

- Mount the unit either inside the trunk or under a seat.
- 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.
- Do not install the unit under the floor carpet, where the heat dissipation from the unit will be considerably impaired.

First, place the unit where you plan to install it, and mark the positions of the four screw holes on the mounting surface.

![Screw hole: ø3.3 mm (5/32 in.)](image)

**Notes**

- 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

- **XM Antenna**
- **Sony BUS Compatible Car Audio**

![Connection diagram](image)

**Connection diagram**

- **Connect with BUS cable to the XM Satellite receiver, aligning the ♦ marks.**
- **Note:** When you use an optional BUS cable, note that a BUS cable with an 8-pin plug (L-type) cannot be used because of its shape.

- **Connect as the connector hook facing down**

**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.

**Cautions**

- 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.