Pioneer

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Operation Manual

XM satellite digital tuner

GEX-P920XM

Register your product at

http://www.pioneerelectronics.com

See "Product registration" page

Precautions

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

About this unit

⚠ **WARNING**

• Handling the cord on this product or cords associated with accessories sold with the product may expose you to chemicals listed on proposition 65 known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.**

⚠ **CAUTION**

• Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, this unit damage, smoke, and overheat could result from contact with liquids.
• Keep this manual handy as a reference for operating procedures and precautions.
• Never set the volume of your product so high that you cannot hear outside traffic and emergency vehicles.
• Protect this product from moisture.
• If the battery is disconnected or has discharged, any previously set memory will be erased and must be reprogrammed.

🌐 Important (Serial Number)

The serial number of this device is located on the bottom of this unit. For your own security and convenience, be sure to record this number on the enclosed warranty card. ▣

About this manual

This unit features a number of sophisticated functions ensuring superior reception and operation. All the functions have been designed for the easiest possible use, but many are not self-explanatory. This operation manual will help you benefit fully from this unit's potential and maximize your listening enjoyment.
We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this unit. It is especially important that you read and observe **Precautions**, **WARNING**s and **CAUTION**s in this manual. ▣

After-sales service for Pioneer products

Please contact the dealer or distributor from where you purchased the product for its after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below. Please do not ship your product to the companies at the addresses listed below for repair without making advance contact.

U.S.A.
Pioneer Electronics (USA), Inc.
CUSTOMER SUPPORT DIVISION
P.O. Box 1760
Long Beach, CA 90801-1760
800-421-1404

For warranty information, please see the Limited Warranty sheet included with your product. ▣

Product registration

Visit us at the following site:

http://www.pioneerelectronics.com

1 Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
2 Receive updates on the latest products and technologies.
3 Download owner's manuals, order product catalogues, research new products, and much more. ▣

About the XM Logo

(((XM)))™

The "XM" logo on this unit indicates that it is an XM satellite radio receiver. You can receive XM satellite radio broadcasts by connecting the unit as shown in the installation manual.

✎ **Note**

The XM name and related logos are trademarks of XM Satellite Radio Inc. ▣

Introducing XM Satellite Radio

There's a world beyond AM and FM. XM Satellite Radio. Up to 130 channels. Coast-to-coast coverage. Digital quality sound. With many commercial-free music channels. Plus the best sports, comedy, talk, news and entertainment. Questions? Visit www.xmradio.com. The future is waiting.

✎ **Notes**

• XM Radio is responsible for the channel lineup and categories, and may change at any time. Please contact XM Radio for the latest channel lineup and category information.
• To activate the XM tuner, you must have an XM subscription. ▣

How to subscribe

Listeners can subscribe by visiting XM on the web at www.xmradio.com or by calling XM's Listener Care at 1-800-XM-RADIO [1-(800) 967-2346]. Customers should have their Radio ID ready; for details, refer to "Display the ID code (Radio ID)". Customers are able to receive a limited number of free-to-air channels without activation.

📝 Note

For information on the coverage area where XM tuner reception is available, please visit www.xmradio.com.

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-readable form. The software is licensed solely for use within this product. ▣

Operating with different head units

You can control this product by connecting a Pioneer head unit (sold separately). The following describes how to operate this product with the head unit. In the diagrams and description, "DEH-P6700MP" is used as the example head unit.

📝 Notes

• This product cannot be used with the head units listed below.
  AVH-P6400CD   AVH-P6400
  DEH-P8500MP   DEH-P850MP
  KEH-P2030
• Functionality with head units other than those listed below may be limited, or not functional at all. Pioneer does not support or guarantee the functionality of this product with head units other than those listed below.

Head unit group 1

When using "GEX-P920XM" with the following head units, operation is the same as for "DEH-P6700MP". Operate according to the instructions in this operation manual.

DEH-P9600MP	DEH-P960MP
DEH-P7600MP	DEH-P760MP
DEH-P7500MP	DEH-P750MP
DEH-P670MP	DEH-P6600
DEH-P660	DEH-P6500
DEH-P650	DEH-P560MP
DEH-P5500MP	DEH-P550MP
DVH-P5000MP	DEH-P4700MP
DEH-P470MP	DEH-P4600MP
DEH-P460MP	DEH-P4500MP
DEH-P450MP	DEH-P3700MP
DEH-P3600	DEH-P360
DEH-P3500	DEH-P350
DEH-P2600	DEH-P26
DEH-P2500	DEH-P250
DEH-P25	FH-P5000MP

Head unit group 2

When using "GEX-P920XM" with the following head units, refer to the operation manual supplied with the head unit for operating instructions.

DEH-P8600MP	DEH-P860MP
DEH-P80MP	DEH-P8MP
DEH-P7700MP	DEH-P770MP

Head unit group 3

When using "GEX-P920XM" with the following head units, refer to the operation manual supplied with the head unit for operating instructions.

AVH-P7600DVD	AVH-P7500DVD
AVH-P6600DVD	AVH-P6500DVD
AVH-P5700DVD	

📝 Notes

• When using this product with "AVH-P7600DVD" or "AVH-P7500DVD", the **FUNCTION** menu in the XM source is not available.
• When storing broadcast stations using with "AVH-P6500DVD", keep touching one of the preset tuning keys **PRESET 1–PRESET 6** on the touch panel screen or press and hold one of the preset tuning buttons **1–6** on the remote control.

Head unit group 4

When using "GEX-P920XM" with "FH-P4200MP", operate while referring to the head unit group 4 function compatibility chart.

📝 Note

"FH-P4200MP" controls this unit as an external unit.

Function compatibility chart

Operate using the same buttons on the head unit itself or the remote control.

Head unit group 4

Function	Button	Operation
Source switching	**SOURCE**	Select
Select the channel	◄ or ►	Select
Changing the band	**BAND**	Select
Preset memory	**1–6** (hold for 2 seconds)	Memory
Direct recall	**1–6**	Recall
Sequential recall (Channel number select mode)	▲ or ▼	Recall
Select the category (Channel category select mode)	▲ or ▼	Select
Entering the function menu	**FUNCTION**	Select
Switching the display (FUNC1)	▲ or ▼	Select
Scrolling the display (FUNC1)	▲ or ▼ (hold for 2 seconds)	Scroll
Switching the channel select mode (FUNC2)	▲ or ▼	Select

📝 Note

When using this unit with "FH-P4200MP", press **FUNCTION** to display the following function: **FUNC 1** (Switching the display)—**FUNC 2** (Switching the channel select mode)—**FUNC 3** (No function)—**FUNC 4** (No function)—**Auto** (No function). ▣
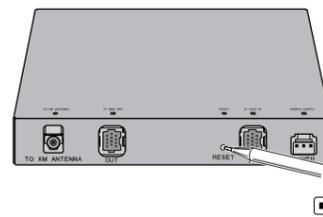
Resetting the microprocessor

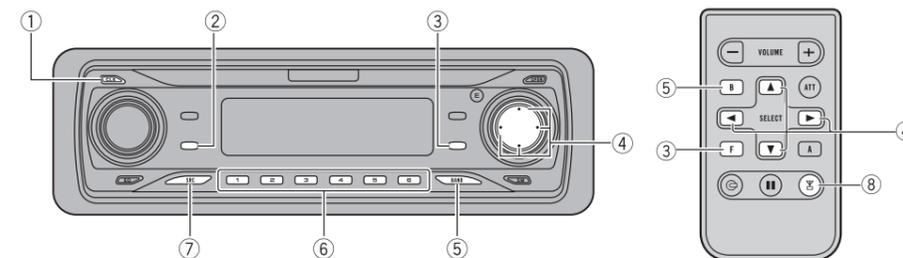The microprocessor must be reset under the following conditions:
• Prior to using this unit for the first time after installation
• If the unit fails to operate properly
• When strange or incorrect messages appear on the display
• When changing the unit combination

● **Press RESET on the unit with a pen tip or other pointed instrument.**

Head unit (e.g. DEH-P6700MP)

① **CLOCK button**
Press and hold to change channel select mode.

② **DISPLAY button**
Press to select different displays.

③ **FUNCTION button**
Press to select functions.

④ **▲/▼/◄/► buttons**
Press to select a channel, recall a channel and select a category. Also used for controlling functions.

⑤ **BAND button**
Press to select among three XM bands and cancel the control mode of functions.

⑥ **1–6 buttons**
Press for preset tuning.

⑦ **SOURCE button**
Head unit is turned on by selecting a source. Press to cycle through all of the available sources. ▣

Remote control (e.g. DEH-P6700MP)

You can operate in the same way with the remote control supplied with the head unit.

⑧ **TUNER button**
Press to select the tuner as the source.

📝 Note

As the button layout differs depending on the model, please read the operation manual of the head unit you are using. ▣

Power supply for this unit

When the head unit's power supply is OFF, this unit is also OFF. (Selecting a source other than XM tuner will not turn this product off.) This unit's power supply can be turned OFF if the ignition switch is turned OFF. If for any reason you want to switch the power of the unit OFF, switch the vehicle's ignition off (turn the ACC of your vehicle to OFF). ◨

Selecting the XM source

1   Press SOURCE to turn the head unit on.

2   Press SOURCE to select "XM" source.
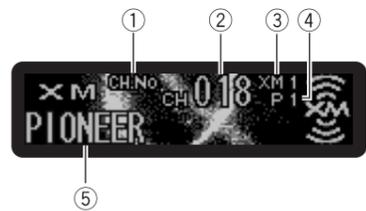Press **SOURCE** repeatedly to switch between the following sources:
XM tuner—Tuner—Television—DVD player/Multi-DVD player—Built-in CD player—Multi-CD player—External unit 1—External unit 2—AUX

📝 Note

To quit listening to the XM tuner, press **SOURCE** to switch to another source or press **SOURCE** and hold until the head unit turns off. ◨

Listening to XM

These are the basic steps necessary to operate the XM.

① **XM channel select setting indicator**
Shows what channel select setting has been selected. **CH.No** is displayed when **CH NUMBER** is selected, and **CAT** is displayed when **CATEGORY** is selected.

② **XM channel number indicator**
Shows which XM channel number the tuner is tuned to.

③ **XM band indicator**
Shows the XM band which has been selected.

④ **XM preset number indicator**
Shows what XM preset has been selected.

⑤ **XM channel name**
Shows the channel name of broadcast channel.

1   Press SOURCE to select a XM source.

2   Press BAND to select a band.
Press **BAND** until the desired band is displayed, **XM1**, **XM2** or **XM3**.

3   Press ◄ or ► to select the desired channel.
The channel number moves up or down successively.
Channels that cannot currently be selected are skipped, and the next channel is selected.
▪ 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".)

4   Press SOURCE and hold until the head unit turns off or press SOURCE to select another source.

📝 Notes

• When you turn the power on, change the source to XM tuner, or select a channel, it may take a few seconds while this unit acquires and processes the satellite signal before you can hear anything.
• Depending on the head unit, it may be possible to switch to channel number direct input mode using the allocated button on the remote control (e.g. **DIRECT**). For details, refer to the manual of the head unit. ◨

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 one of the preset tuning buttons 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, the channel is recalled from memory.

📝 Notes

• Up to 18 channels, six 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. ◨
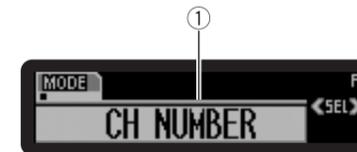
Switching the XM display

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

● **Press DISPLAY.**
Press **DISPLAY** repeatedly to switch between the following settings:
Channel name—Artist name/feature—Song/program title—Channel category ◨

Introduction of advanced tuner operation

① **Function display**
Shows the function status.

● **Press FUNCTION to display the function name.**
Press **FUNCTION** to display the following function:
MODE (Channel select mode)
▪ To return to the XM display, press **BAND**. ◨

Switching the channel select mode

When selecting a channel, you can switch between selecting a channel by channel number or by channel category.
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 mode using the allocated button (e.g. **CLOCK**). For details, refer to the manual of the head unit.

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" above.)

2   Press BAND to return to the previous 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.
The channel number moves up or down in the selected channel category.
Channels that cannot currently be selected are skipped, and the next channel in that channel category is selected. ▣

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.

1   Select the channel number select mode. (Refer to "Switching the channel select mode" .)

2   Press ◄ or ► to select the channel number zero (CH 000).
The ID code is displayed. Carefully check your XM Radio ID. The letters **F**, **I**, **O**, and **S** are not used.

✎ Notes

• If you select another channel, display of the ID code is canceled.
• Display of the ID code repeats displaying **RADIO ID** and the ID code one after the other. ▣

Radio ID

Refer to the following chart to verify each Radio ID, before displaying them on the following head units.

DEH-P5500MP	DEH-P550MP
DEH-P560MP	DVH-P5000MP
DEH-P4700MP	DEH-P470MP
DEH-P4600MP	DEH-P460MP
DEH-P4500MP	DEH-P450MP
DEH-P3700MP	DEH-P3600
DEH-P360	DEH-P3500
DEH-P350	DEH-P2600
DEH-P26	DEH-P2500
DEH-P250	DEH-P25

ID	Display	ID	Display
1	1	I (Not used.)	——
2	2	J	J
3	3	K	K
4	4	L	L
5	5	M	M
6	6	N	N
7	7	O (Not used.)	——
8	8	P	P
9	9	Q	Q
0	0	R	R
A	A	S (Not used.)	——
B	B	T	T
C	C	U	U
D	D	V	V
E	E	W	W
F (Not used.)	——	X	X
G	G	Y	Y
H	H	Z	Z

▣

Messages

When problems occur with the XM tuner, a message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action.

Message	Cause	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 is fully updated. Channels 000 and 001 should function normally.
NOSIGNAL	XM signal is too weak at the current location.	Wait until the car reaches a location with a stronger signal.
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.	Select another channel.
– – – – – – – –	The user has selected a channel number that does not exist or is not subscribed to.	Automatically switches to Channel 001.
– – – –	There is no artist name/feature, song/program title, or channel category associated with the channel at that time.	No action needed.

✎ Note

When the messages that is not listed above are displayed, refer to the operation manual supplied with the head unit. ▣

Specifications

General

Power source .... 14.4 V DC (10.8 – 15.1 V allowable)
Grounding system .... Negative type
Max. current consumption
.... 2.0 A
Dimensions (W × H × D) ...... 179 × 27 × 139 mm
(7 × 1 × 5-1/2 in.)
Weight .... 0.56 kg (1.24 lbs)

XM tuner

Frequency range .... 2,332.50 – 2,345.00 MHz
Usable sensitivity
Satellite .... – 105 dBm
Terrestrial .... – 102 dBm

Audio

Signal-to-noise ratio .... 90 dB (IHF-A network)
Separation .... 85 dB

Antenna

Power source (Provided by the satellite line)
.... 4.9 V DC
(4.4 – 5.4 V allowable)
Max. current consumption
.... 0.1 A
Type .... Active type
Dimensions
Base (W × H × D) .... 29 × 14 × 40 mm
(1-1/8 × 1/2 × 1-5/8 in.)
Cord .... 5 m
(16 ft. 5 in.)
Weight .... 0.06 kg (0.13 lbs)

✎ Note

Due to possible improvements, specifications and design are subject to change without notice. ▣