SONY®

Digital Audio Receiver

Operating Instructions

Before operating the unit, install the unit correctly by referring to the Installation Guide.
You need to subscribe for XM™ Satellite Radio Service to listen to the radio broadcast.

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. _____

Serial No. _____

Radio ID _____

DRN-XM01C
DRN-XM01R
DRN-XM01H

SATELLITE RADIO

eco info

Printed on 100% recycled paper using VOC (Volatile Organic Compound)-free vegetable oil based ink.

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http://www.world.sony.com/

LIMITED WARRANTY (Portable Audio)

FOB 30$以上

Caution

• Do not operate the unit in a way that might divert your attention from driving safely. As a driver, you alone are responsible for safely operating your vehicle in accordance with traffic safety laws at all times.
• Do not install the unit where it may obstruct your view through the windshield or your view of your vehicle's indicator displays.
• Do not install the unit where it may hinder the function of safety devices such as an air-bag. Doing so may prevent the air-bag from functioning properly in the event of an accident.
• The installation and use suggestions contained in this manual are subject to any restrictions or limitations that may be imposed by applicable law— purchaser should check applicable law for any restrictions or limitations before installing and/or operating this product.
• Failure to follow these safety instructions and warnings may result in a serious accident.

Before You Begin

Thank you for choosing the Sony digital audio receiver!
It will give you many hours of reliable service and listening pleasure. Before operating the receiver, please read these instructions thoroughly and retain them for future reference.

If you have any questions about the product, you may call:
Sony Direct Response Center 1-(800)-222-7669 or write to:
Sony Direct Response Center 12451 Gateway Blvd. Fort Myers, FL 33913

If you have any questions or problem concerning this product, consult your nearest Sony dealer: 1-(866)-473-7669.
If you have any questions or problem concerning the XM Satellite radio service including the broadcast, consult XM.
The Radio 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 Radio ID").

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 and CNN/SI. Questions? Visit www.xmradio.com. The future is waiting.

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

Features

• This unit is exclusively for the XM Satellite radio.
• Display function for a variety of text information about the tuned-in channel.
• Memo function enables the unit to store the text information for up to 10 memories.
• Preset function for up to 5 channels.
• Transportable type receiver, which can be attached and removed from the cradle easily.
• Jog roller and remote commander for easy operation.
• Category Scroll function using a specified category for easy channel selection.
• Auto Power Down function enables the unit to automatically turn power off.

Precautions

For customers who use this unit in a car

• When you turn off the ignition switch of your car, be sure to turn off the power of the unit by pressing the POWER button on the main unit or remote commander. Otherwise the unit may drain car battery.
• When you get out of your car, remove the main unit from the cradle and take it with you to prevent it from being stolen.

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 unit cannot receive channels at all.
• When "CHECK ANTENNA" appears in the display
  The supplied antenna is not connected to this unit. Check the connection of the antenna cord, then turn the power on again.
• When "NO SIGNAL" appears in the display
  The receiving condition is not good. Move to the place where the condition is good.

The unit cannot receive a particular channel.
• You need to subscribe for XM.
• When "UPDATING" appears in the display
  You have not subscribed for XM or the channel is not authorized. You need to subscribe for XM.
• When "OFF AIR" appears in the display
  The channel is not broadcasted now.
• When "█XM█CH---" appears in the display
  The channel to be tuned-in is void due to the change by the broadcast service, or the receiving condition is not good.

You cannot select a desired channel.
• In Category Scroll mode, you can select only the channels that correspond to the Channel Category you selected in the menu. Select a different Channel Category or change to the Channel Scroll mode. See "Using the Category Scrolls".

"SYSTEM ERROR" appears in the display and you cannot operate the unit.
• A system error occurs. Consult the Sony Direct Response Center.

"--------" is displayed for the text information about Artist Name/Feature, Song/Program Title, Additional Information, or time information.
• There is no text information or time information in the channel. This is not an error.
• The text information may not be displayed depending on the unit condition, for example, right after the unit has received a channel.

When selecting a channel, or if "LOADING" appears in the display while selecting a channel, JOG roller, ↑/↓ and preset buttons may not work.
• You cannot select a channel until the unit finishes receiving the entire audio data or text information.

The unit automatically turns power off.
• The Auto Power Down is functioning. This turns off the unit automatically when no operation is performed for the specified time. To change the setting, see "Using Other Functions".

Sound distortion occurs.
• When using the unit with the cassette adaptor, sound distortion may occur. Adjust the Line Out Level. See "Using Other Functions".

The sound is low.
• Adjust the Line Out Level to the maximum level. See "Using Other Functions".

Display is dim, or no indication is displayed.
• The unit is being used in extremely high or low temperatures or in a place with excessive moisture.

The remote commander does not function.
• Remove any obstacles between the remote commander and the unit.
• Use the remote commander near the unit.
• Point the remote commander at the remote sensor R on the unit.
• Replace battery in the remote commander with new one if it is weak.

Icon List

The following icons appear in the display.

█XM█ indicates the Channel Number
CHN indicates the Channel Name
NAME indicates the Artist Name/Feature
TITLE indicates the Song/Program Title
INFO indicates the Additional Information
TIME indicates time and date
CAT indicates the Category
MENU indicates the Menu display

Specifications

Main unit
Time display
  12-hour system
Auto power down function
  OFF/60 min/120 min/180 min
Output
  LINE OUT jack (ø 3.5 mm stereo minijack)
Power requirements
  6 V DC, DC IN 6V jack
Dimensions
  Incl. projecting parts and controls:
  Main unit:
    Approx. 105 × 40 × 120 mm (w/h/d)
    (Approx. 4 1/4 × 1 5/8 × 4 3/4 inches)
  When the main unit is installed in the car cradle with the car stand:
    Approx. 105 × 68 × 128 mm (w/h/d)
    (Approx. 4 1/4 × 2 3/4 × 5 1/8 inches)
  When the main unit is installed in the home cradle with the home stand:
    Approx. 105 × 55 × 128 mm (w/h/d)
    (Approx. 4 1/4 × 2 1/4 × 5 1/8 inches)

  Not incl. projecting parts and controls:
  Main unit:
    Approx. 102 × 38 × 120 mm (w/h/d)
    (Approx. 4 1/8 × 1 1/2 × 4 3/4 inches)
  When the main unit is installed in the car cradle with the car stand:
    Approx. 102 × 66 × 128 mm (w/h/d)
    (Approx. 4 1/8 × 2 5/8 × 5 1/8 inches)
  When the main unit is installed in the home cradle with the home stand:
    Approx. 102 × 53 × 128 mm (w/h/d)
    (Approx. 4 1/8 × 2 1/4 × 5 1/8 inches)
Mass
  Main unit:
    Approx. 220 g (7.8 oz)
  When the main unit is installed in the car cradle with the car stand:
    Approx. 380 g (13.4 oz)
  When the main unit is installed in the home cradle with the home stand:
    Approx. 300 g (10.6 oz)

Remote commander
Power requirements
  3V DC, one CR2025 lithium battery
Dimensions
  Approx. 52 × 89 × 12 mm (w/h/d)
  (Approx. 2 1/8 × 3 5/8 × 1/2 inches)
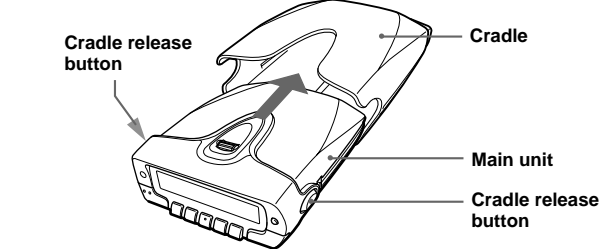 incl. projecting parts and controls
Mass
  Approx. 30 g (1.1 oz) incl. lithium battery

Design and specifications are subject to change without notice.

Installing the Main Unit in the Cradle

Insert the main unit completely into the cradle until the main unit is locked in the cradle.

Cradle release button

Cradle

Main unit

Cradle release button

To remove the main unit from the cradle

While pressing the two cradle release buttons on the left and right sides of the main unit, pull out the main unit from the cradle.

Replacing the Lithium Battery into the Remote Commander

Replace the battery when the buttons on the remote commander do not work. Remove the old battery and insert a new one.
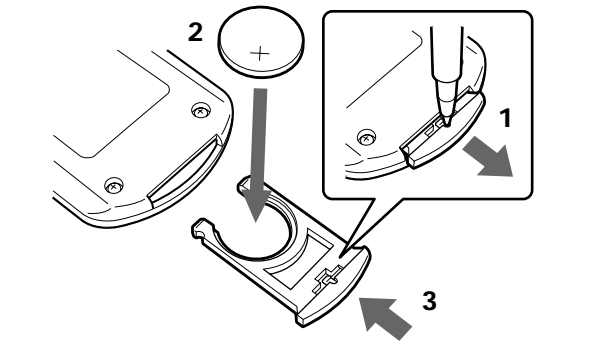
1 Insert a long and thin object into the hole, then pull out the lithium battery holder.
2 Replace the lithium battery with the positive (+) side facing up.
3 Insert the battery holder into the remote commander until it clicks.

Battery life   (Approx.)

Sony lithium battery CR2025	1 year

Notes on lithium battery
• Keep the lithium battery out of reach of children. Should the battery be swallowed, immediately consult a doctor.
• Wipe the battery with a dry cloth to assure good contact.
• Be sure to install the battery in the correct polarity position.
• Do not hold the battery with metallic tweezers, as doing so may cause a short-circuit.
• Do not break up the battery or throw it into a fire, which might cause it to explode.
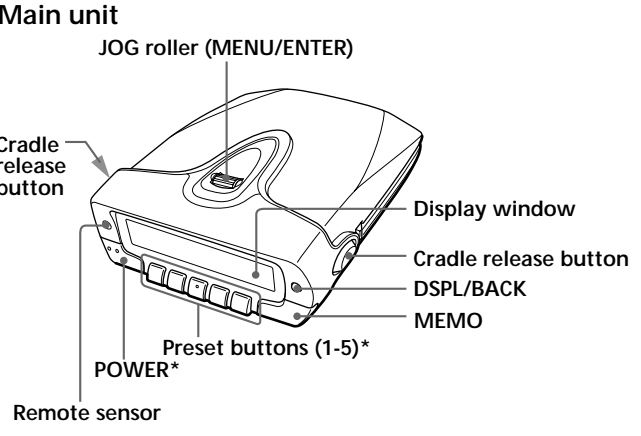• Carefully dispose of the used battery.

Note
When the unit is not to be used for a long period of time, remove the battery to avoid damage from battery leakage and corrosion.
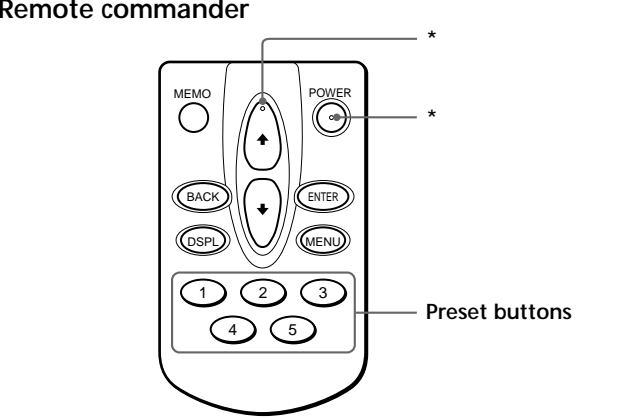
Parts and Identifications

Main unit

JOG roller (MENU/ENTER)

Cradle release button

Display window

Cradle release button
DSPL/BACK
MEMO
Preset buttons (1-5)*
POWER*
Remote sensor

* The POWER and preset button No. 3 have a tactile dot.

Remote commander

MEMO
POWER
*
*
BACK
ENTER
DSPL
MENU
1 2 3
4 5
Preset buttons

* The ↑ and POWER button have a tactile dot.

Using the JOG Roller (MENU/ENTER)

Turn up or down to select channels, select the menu items and settings, or scroll the stored text information in the menu operation.

Press to display the menu display, or execute the items or settings in the menu operation.
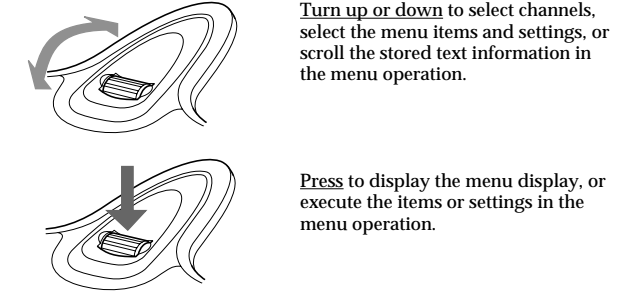
Displaying the Radio ID

The receiver has its own ID, and an ID number is required when registering in XM.

1 Press **POWER** to turn on the main unit.
2 Turn **JOG roller** (or press ↑/↓ on the remote) to select "$\boxed{XM}$CH0 RADIO ID".
The radio ID appears.

$\boxed{XM}$CH0 RADIO ID
XXXXXXXX•————— Radio ID

Note
The Radio ID can be displayed only in Channel Scroll mode. See "Playing the Receiver".

Adjusting the Time Difference

This unit displays the current time by correcting the time difference between the local time and UTC (coordinated universal time) data being transmitted. Set the "hour" of your local time in the menu display. The factory-set is the eastern standard time.
If the current UTC data is not received, "– – : – –" appears in the display.

1 Press **POWER** to turn on the main unit.
2 Press **JOG roller** (or **MENU** on the remote) to show the menu display.
The first menu item appears.

$\boxed{MENU}$————— Menu icon
SCROLL MODE ⬍ ————— Menu item

3 Turn **JOG roller** (or press ↑/↓ on the remote) to select "TIME ADJUST" and press **JOG roller** (or **ENTER** on the remote).
The "hour" flashes.

$\boxed{MENU}$TIME ADJUST
–11:12AM

12:00 AM = midnight
12:00 PM = noon
4 Turn **JOG roller** (or press ↑/↓ on the remote) to adjust the hour and press **JOG roller** (or **ENTER** on the remote).
The display returns to the tuned channel display.

Note
This unit does not have the Daylight Saving Time (summer time) function.

To check the current time while listening to a broadcast
Press **DSPL/BACK** (or **DSPL** on the remote) until the "$\boxed{INFO}$" and "$\boxed{TIME}$" display appears. See "Checking the Tuned Channel Information".

To cancel a selection
Press **DSPL/BACK** (or **BACK** on the remote) to return to the previous display during menu operation.
Press **MENU** on the remote commander to exit the menu display. The display returns to the tuned channel display.

Playing the Receiver

Notes
• Turn down the volume of the component connected to the unit before playing the unit.
• Adjust the volume of the component connected to the unit.
• If sound distortion occurs when playing the unit with the cassette adaptor, adjust the Line Out Level. See "Using Other Functions".

Manual Tuning

1 Make settings on your car audio or amplifier, etc. so that you can listen to the sound from this unit.
2 Press **POWER** to turn on the main unit.
The channel that you last tuned in to is displayed.

$\boxed{XM}$CH13 ————— Channel Number
$\boxed{CHAN}$TOP 20• ————— Channel Name

3 Turn **JOG roller** (or press ↑/↓ on the remote) to select desired channel.

• Holding down ↑/↓ makes the channel readout to rapidly increase or decrease respectively.
• This unit has two scroll modes: Channel Scroll and Category Scroll. See "Using the Category Scrolls".
Channel Scroll: searches for a channel by scrolling every single channel among authorized channels.
Category Scroll: searches for a channel using the Channel Category you selected in the menu display.

To turn off the receiver
Press **POWER**.

Using the Category Scrolls

In Category Scroll mode, you can search for a channel among authorized channels that have the corresponding Channel Category you selected in the menu display.

1 Press **JOG roller** (or **MENU** on the remote) to show the menu display.
"SCROLL MODE" appears in the display.
2 Press **JOG roller** (or **MENU** on the remote).
The current scroll mode appears in the display.

$\boxed{MENU}$SCROLL MODE
CHANNEL SCROLL ⬍

3 Turn **JOG roller** (or press ↑/↓ on the remote) to select "CATEGORY SCROLL" and press **JOG roller** (or **ENTER** on the remote).
The selected Channel Category appears in the display.

$\boxed{MENU}$CATEGORY SCROLL
NEWS ⬍

4 Turn **JOG roller** (or press ↑/↓ on the remote) to select the desired Channel Category and press **JOG roller** (or **ENTER** on the remote).
The unit searches for a channel that has the selected Channel Category from the Channel Number next to the current channel.
The CATEGORY indicator appears in the upper left corner of the display.

To cancel a selection
Press **DSPL/BACK** (or **BACK** on the remote) to return to the previous display during menu operation.
Press **MENU** on the remote commander to exit the menu display. The display returns to the tuned channel display.

Tips
• When you tune in to a channel in Category Scroll mode, the Channel Category appears for about 2 seconds in the display.

$\boxed{XM}$CH50
$\boxed{CAT}$News ————— Channel Category
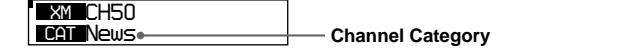
• When there is no channel that has the specified Channel Category, "––––––––" is displayed.

Note
When the Category list cannot be received depending on the receiving condition, "––––––––" is displayed in step 3 above, and you cannot select the Channel Category.


Presetting your Favorite Channels

Preset Tuning
You can preset up to 5 channels onto the preset buttons (1–5). To access the preset channels, simply press the corresponding preset buttons (1–5). All the preset buttons are preset to Channel Number 1 at the factory.

Presetting a channel
1 Follow steps 1 to 3 in "Playing the Receiver", and manually tune in to the channel you wish to preset.
2 Hold down the preset button on the unit for more than 2 seconds.
The preset number appears.

$\boxed{XM}$CH50 PRESET1• ————— Preset number
$\boxed{CHAN}$Financial News
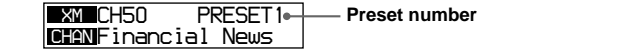
The previous preset channel is deleted and the unit presets the channel being received.

Note
You cannot preset channels using the remote.

Tuning in to a preset channel
1 Press **POWER** to turn on the main unit.
2 Press the desired preset button (1–5).

Checking the Tuned Channel Information

This unit has three display modes in the tuned channel display.

1 Press **DSPL/BACK** (or **DSPL** on the remote).
The display mode changes as follows:

$\boxed{XM}$CH13 ————— Channel Number
$\boxed{CHAN}$TOP 20• ————— Channel Name

$\boxed{NAME}$Maria ————— Artist Name/Feature
$\boxed{TITLE}$Christmas Song• ————— Song/Program Title

$\boxed{INFO}$Concert starts• ————— Additional Information
$\boxed{TIME}$11:00AM 12/24/01• ————— Current time and date

Tips
• When the Additional Information text has more than 16 characters, text will be scrolled every 2 seconds.
After all Additional Information is displayed, "––– + ––– + ––– + ––– +" appears for about 2 seconds and then repeats displaying from the beginning.
• As the unit memorizes the display mode when the power is turned off, the display appears in the last display mode when you turn on the unit.

Note
If the channel has no text information, "––––––––" will appear in the display.

Storing the Information

You can store the text information contained in the tuned-in channel. This unit can store ten sets of the following information:
– Channel Number
– Channel Name
– Artist Name or Feature
– Song or Program Title
– Additional Information and time/date

Note
When you store the eleventh set of information, the oldest one will be deleted.

1 Press **MEMO** when the channel you wish to store the information is received.
"MEMORIZED" appears for about 2 seconds and the information is stored in "MEMO 1".
The memory numbers of already stored information increases by one.

MEMORIZED

Viewing the stored information
1 Press **JOG roller** (or **MENU** on the remote) to show the menu display.
2 Turn **JOG roller** (or press ↑/↓ on the remote) to select "MEMO" and press **JOG roller** (or **ENTER** on the remote).

$\boxed{MENU}$MEMO
MEMO 1 ⬍ ————— Memory number

If no information is stored, "NO MEMO" will appear.
3 Turn **JOG roller** (or press ↑/↓ on the remote) to select the desired memory number and press **JOG roller** (or **ENTER** on the remote).
4 Turn **JOG roller** (or press ↑/↓ on the remote) to scroll the stored text information.
The information appears in the following order: Artist Name/Feature → Song/Program Title → Additional Information → Channel Number → Channel Name → Time and date.

To return to the display for selecting the memory number
Press **DSPL/BACK** (or **BACK** on the remote).

To exit the menu display
Press **MENU** on the remote commander. The display returns to the tuned channel display.

Using other Functions

You can also use the following functions in the menu display.

| Menu	See
Scroll mode	"Using the Category Scroll"
Memo	"Storing the Information"
Back Light	below
Beep	below
Time Adjust	"Adjusting the Time Difference"
Contrast	below
Auto Power Down	below
Line Out Level	below

To cancel a selection
Press **DSPL/BACK** (or **BACK** on the remote) to return to the previous display.
Press **MENU** on the remote commander to exit the menu display.

Note
When no operation is performed for about 1 minute in the menu display, the unit cancels a selection and the display returns to the tuned channel display.

Back Light
You can select the lighting level of the display window. The factory-set is "BRIGHT".

1 Press **JOG roller** (or **MENU** on the remote) to show the menu display.
2 Turn **JOG roller** (or press ↑/↓ on the remote) to select "BACK LIGHT" and press **JOG roller** (or **ENTER** on the remote).
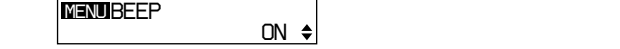The current setting appears in the display.

$\boxed{MENU}$BACK LIGHT
BRIGHT ⬍
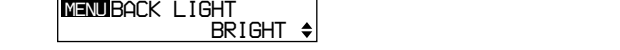
3 Turn **JOG roller** (or press ↑/↓ on the remote) to select the desired setting and press **JOG roller** (or **ENTER** on the remote).
BRIGHT: makes the display window bright.
DIM: makes the display window dim.
OFF: turns off the lighting of the display window.

Beep
You can turn the beep on or off. The factory-set is "ON".

1 Press **JOG roller** (or **MENU** on the remote) to show the menu display.
2 Turn **JOG roller** (or press ↑/↓ on the remote) to select "BEEP" and press **JOG roller** (or **ENTER** on the remote).
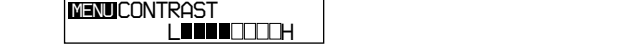The current setting appears in the display.

$\boxed{MENU}$BEEP
ON ⬍

3 Turn **JOG roller** (or press ↑/↓ on the remote) to select "ON" or "OFF" and press **JOG roller** (or **ENTER** on the remote).

Contrast

You can adjust the contrast of the display window in 8 levels. The factory-set is level 4.

1 Press **JOG roller** (or **MENU** on the remote) to show the menu display.
2 Turn **JOG roller** (or press ↑/↓ on the remote) to select "CONTRAST" and press **JOG roller** (or **ENTER** on the remote).
The current setting appears in the display.

$\boxed{MENU}$CONTRAST
▮▯▯▯▯▯▯H

3 Turn **JOG roller** (or press ↑/↓ on the remote) to adjust contrast while checking the display and press **JOG roller** (or **ENTER** on the remote).

Auto Power Down

Auto Power Down function automatically turns off the unit when the specified time passes from the last button operation. The factory-set is "60 min".

1 Press **JOG roller** (or **MENU** on the remote) to show the menu display.
2 Turn **JOG roller** (or press ↑/↓ on the remote) to select "AUTO POWER DOWN" and press **JOG roller** (or **ENTER** on the remote).
The current setting appears in the display.

$\boxed{MENU}$AUTO POWER DOWN
60min ⬍
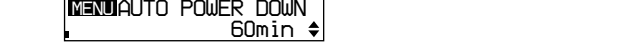
3 Turn **JOG roller** (or press ↑/↓ on the remote) to select setting and press **JOG roller** (or **ENTER** on the remote).
The setting changes as follows:

OFF ↔ 60 min ↔ 120 min ↔ 180 min

When you select a setting other than "OFF", the Auto Power Down indicator appears in the lower left corner of the display. To disable the Auto Power Down function, select "OFF".
When the specified time passes, the following messages appear in the display.

POWERING DOWN
2 seconds

NO POWER DOWN?
PRESS ANY KEY
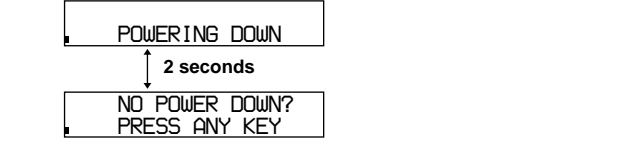
When no button is pressed, the unit turns off the power. If you press any button, the timer duration will begin from the start.

Line Out Level

You can adjust the output level of the signal from the LINE OUT jack in 8 levels. The factory-set is level 8 (Maximum.).

Standard level adjustment
• When the car connecting pack is connected to the LINE OUT jack of the unit and using it in a car, turn down the Line Out Level to avoid sound distortion.
• When the car connecting pack is not connected to the LINE OUT jack, set the Line Out Level to the maximum level.

1 Press **JOG roller** (or **MENU** on the remote) to show the menu display.
2 Turn **JOG roller** (or press ↑/↓ on the remote) to select "LINE OUT LEVEL" and press **JOG roller** (or **ENTER** on the remote).
The current setting appears in the display.

$\boxed{MENU}$LINE OUT LEVEL
▮▮▮▮▮▮▮▮

3 Turn **JOG roller** (or press ↑/↓ on the remote) to adjust the Line Out Level while listening to the radio and press **JOG roller** (or **ENTER** on the remote).