SONY

Personal Audio System

Operating Instructions   US

Owner's Record
The model number is located at the bottom and the serial number is located in the battery compartment.
Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.
Model No. _____   Serial No. _____

ZS-SAT1

SIRIUS READY   (((**XM**))) READY

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http://www.sony.net/

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To reduce the risk of fire, do not cover the ventilation of the apparatus with newspapers, tableclothes, curtains, etc. And do not place lighted candles on the apparatus.

To reduce the risk of fire or electric shock, do not place objects filled with liquids, such as vases, on the apparatus.

Connect the apparatus to an easily accessible AC outlet. Should you notice an abnormality in the apparatus, disconnect the main plug from the AC outlet immediately.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

CAUTION
**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## Power sources

1 to AC IN   **2** to a wall outlet
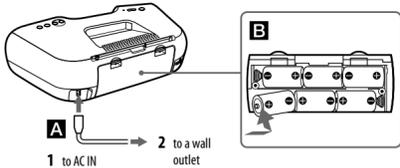
Connect the AC power cord **A** or insert six R20 (size D) batteries (not supplied) into the battery compartment **B**.

Notes
- Replace the batteries when the OPR/BATT indicator ② dims or when the unit stops operating. Replace all the batteries with new ones. Before you replace the batteries, be sure to take out the CD from the unit.
- To use the unit on batteries, disconnect the AC power cord from the unit.
- When you operate the unit on batteries, you cannot turn on the unit using the remote.

Preparing the remote
Insert two R03 (size AAA) batteries (not supplied).
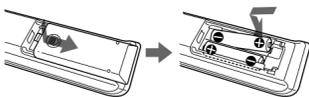
Replacing batteries
With normal use, the batteries should last for about six months. When the remote no longer operates the unit, replace all the batteries with new ones.

CAUTION
The use of optical instruments with this product will increase eye hazard.

Information

For customers in the USA
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.
This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Notes on DualDiscs
A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

## Music discs encoded with copyright protection technologies
This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

For customers in the USA
Please register this product on line at
http://www.sony.com/productregistration
Proper registration will enable us to send you periodic mailings about new product, services and other important announcements. Registering your product will also allow us to contact you in the unlikely event that the product needs adjustment or modification. Thank you.

- The XM name and related logos are registered trademarks of XM Satellite Radio Inc.
- (c) 2006 SIRIUS Satellite Radio Inc. "SIRIUS" and the SIRIUS dog logo are registered trademarks of SIRIUS Satellite Radio Inc.
- TM and (R) marks are omitted in this manual.

Basic Operations
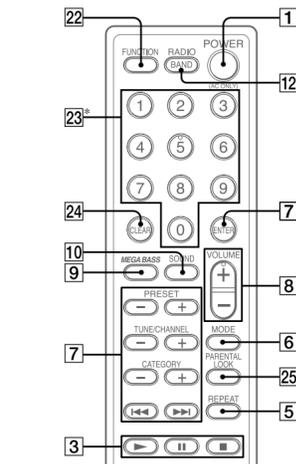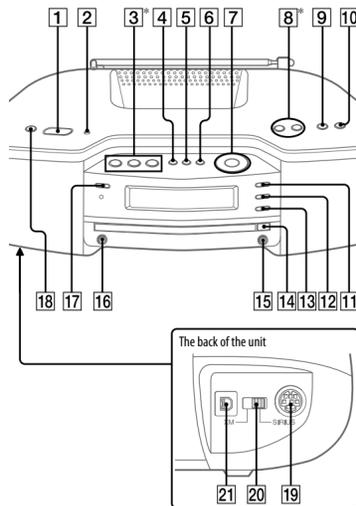
The back of the unit

XM READY® SUBSCRIPTIONS
Once you have installed the XM Mini-Tuner Dock, inserted the XM Mini-Tuner, connected the XM Dock to your XM Ready® home audio system, and installed the antenna, you are ready to subscribe and begin receiving XM programming. There are three places to find your eight character XM Radio ID: on the XM Mini-Tuner, on the XM Mini-Tuner package, and on XM Channel 0. Record the Radio ID in the following eight squares for reference.

☐☐☐☐☐☐☐☐

Note: The XM Radio ID does not use the letters "I", "O", "S" or "F". Activate your XM Satellite Radio service in the U.S. online at http://activate.xmradio.com or call 1-800-XM-RADIO (1-800-967-2346). You will need a major credit card. XM will send a signal from the satellites to activate the full channel lineup. Activation normally takes 10 to 15 minutes, but during peak busy periods you may need to keep your XM Ready home audio system on for up to an hour. When you can access the full channel lineup on your XM Ready home audio system you are done.

To receive the SIRIUS Satellite Radio

SIRIUS Satellite Radio: The Best Radio On Radio
SIRIUS brings all your favorite entertainment including 100% commercial-free music, plus superior sports coverage, uncensored talk and comedy, world-class entertainment, news, weather and more for your car, home or office.

Sirius is available in the US for subscribers with addresses in the continental US and is available in Canada for subscribers with a Canadian address. Required subscription plus compatible SiriusConnect Home Tuner with antenna are required and sold separately. SIRIUS Programming is subject to change. Visit sirius.com or siriuscanada.ca for the most complete and up-to-date channel lineup and product information. "SIRIUS" and the SIRIUS dog logo and related marks are trademarks of Sirius Satellite Radio Inc. All rights reserved.
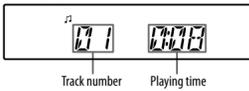
To Subscribe to SIRIUS Satellite Radio
Purchase and connect a SiriusConnect Home Tuner to your Sirius Ready home audio system. You are then ready to activate and subscribe to Sirius by either calling 1.888.539.SIRIUS (7474) or log on to sirius.com. It is that easy.

Playing a CD

1 Press CD ⑪ on the unit.
"CD" appears in the display.

2 Press ⏏ ⑭ on the unit, and place a disc with the label side up on the CD tray.
To close the CD tray, press ⏏ ⑭ on the unit.

3 Press ▶ ③ on the unit.
The unit plays all the tracks once.

Track number   Playing time

To	Press
Pause playback	❚❚ ③. To resume play, press it again.
Stop playback	■ ③.
Go to the next track	▶▶┃ (▶▶┃ on the remote) ⑦.
Go back to the previous track	┃◀◀ (┃◀◀ on the remote) ⑦.
Locate a point while listening to the sound	▶▶┃ (forward) or ◀◀┃ (backward) ⑦ while playing and hold it until you find the point. (On the remote, use ▶▶┃ or ┃◀◀ ⑦.)
Locate a point while observing the display	▶▶┃ (forward) or ◀◀┃ (backward) ⑦ in pause and hold it until you find the point. (On the remote, use ▶▶┃ or ┃◀◀ ⑦.)
Locate a specific track directly	The number button ㉓ of the track on the remote.
Remove the CD	⏏ ⑭.

On the remote
To select CD function, press FUNCTION ㉒ repeatedly to select "CD" in the display.

To locate a track by number on the remote
(Examples)
For track 1: Press 1 ㉓, and then ENTER ⑦.
For track 12: Press 1, 2 ㉓, and then ENTER ⑦.

Note
You cannot locate a specific track if "SHUF" or "PGM" is lit in the display. Press ■ ③, and then press MODE ⑥ repeatedly until "SHUF" and "PGM" disappears from the display.

Before using the unit

To turn on/off the power
Press POWER ①.

To adjust the volume
Press VOLUME +, – ⑧.

To listen through headphones
Connect the headphones to the ⌂ (headphones) jack ⑯.

To select the sound characteristic
Press SOUND ⑩ repeatedly to select the audio emphasis you want.

Choose	To get
⌐ ⌐	Powerful, clean sounds, emphasizing low and high range audio
⌐ ⌐	Light, bright sounds emphasizing high and middle range audio
⌐ ⌐	Percussive sounds, emphasizing bass audio
⌐ ⌐	The presence of vocals, stressing middle range audio
⌐ ⌐	The whole dynamic range for music such as classical music

To reinforce the bass sound
Press MEGA BASS ⑨ to display "MAGA BASS" in the display.
To return to normal sound, press MEGA BASS ⑨ to disappear from the display.

To receive the XM Satellite Radio

ABOUT XM SATELLITE RADIO
XM offers over 170 digital radio channels: the most commercial-free music channels, premier news, sports, talk, and traffic and weather in 21 metro markets. XM's on-air hosts broadcast live from studios in Washington, D.C., New York City and Nashville.
For more information or to subscribe in the US, visit xmradio.com or call Listener Care at 1-800-XMRADIO (1-800-967-2346).

XM READY® LEGAL
XM monthly service subscription sold separately. XM Mini-Tuner and Home Dock required (each sold separately) to receive XM service. Installation costs and other fees and taxes, including a one-time activation fee may apply. Subscription fee is consumer only. All fees and programming subject to change. Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800-XMRADIO (1-800-967-2346). For a full listing of the XM commercial-free channels and advertising supported channels, visit lineup.xmradio.com. Subscriptions subject to Customer Agreement available at xmradio.com. XM service only available in the 48 contiguous United States. XM Satellite Radio and XM Ready are trademarks of XM Satellite Radio Inc. (C)2006 XM Satellite Radio Inc. All rights reserved.

Specifications

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
With 3.2-ohm loads, both channels driven from 150 - 6 000 Hz; rated 1.8 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

Other specifications

CD player section
System
Compact disc digital audio system
Laser diode properties
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Number of channels
2
Frequency response
20 - 20 000 Hz +1/–1 dB
Wow and flutter
Below measurable limit

Radio section
Frequency range
FM: 87.5 - 108 MHz
AM: 530 - 1 710 kHz
Antennas
FM: Telescopic antenna
AM: Built-in ferrite bar antenna

General
Speaker
Full range: 10 cm (4 in.) dia., 3.2 Ω, cone type (2)
Input
AUDIO IN jack (stereo minijack): Minimum input level 245 mV
Outputs
Headphones jack (stereo minijack)
For 16 - 64 Ω impedance headphones
Power output
2.3 W + 2.3 W (at 3.2 Ω, 10% harmonic distortion)
Power requirements
For player:
120 V AC, 60 Hz
9 V DC, 6 R20 (size D) batteries
For remote control:
3 V DC, 2 R03 (size AAA) batteries
Power consumption
AC 19 W

Battery life
For player:
FM Radio reception
Sony R20P: approx. 18 h
Sony alkaline LR20: approx. 38 h
SIRIUS Radio reception
Sony R20P: approx. 1.5 h
Sony alkaline LR20: approx. 7 h
XM Radio reception
Sony R20P: approx. 3 h
Sony alkaline LR20: approx. 9.5 h
CD playback
Sony R20P: approx. 6 h
Sony alkaline LR20: approx. 17 h
It is recommended that you use alkaline batteries.
Dimensions
Approx. 480 × 156 × 250 mm (w/h/d)
(19 × 6 ¼/4 × 9 ⅞/8 inches) (incl. projecting parts)
Mass
Approx. 4.3 kg (9 lb. 8 oz) (incl. batteries)
Supplied accessories
AC power cord (1)
Remote control (1)

Design and specifications are subject to change without notice.

Optional accessories
Sony MDR headphones series

Listening to FM or AM radio

To listen to FM or AM

1 Press RADIO BAND•AUTO PRESET ⑫ on the unit (RADIO•BAND ⑫ on the remote) repeatedly to select FM or AM.

2 Hold down TUNE/CHANNEL + or – ⑦ until the frequency digits begin to change in the display.
The unit automatically scans the radio frequencies and stops when it finds a clear station.
If you cannot tune in a station, press TUNE/CHANNEL + or – ⑦ repeatedly to change the frequency step by step.
When an FM stereo broadcast is received, "ST" appears.

Tip
If the FM broadcast is noisy, press MODE ⑥ until "MONO" appears in the display and the radio will play in monaural.

Listening to satellite radio

You can operate and listen to XM or SIRIUS satellite radio by connecting an optional antenna or tuner. Before using the unit, connect the XM Mini-Tuner and Home Dock or the SiriusConnect Home tuner to the unit.

Connect the XM Mini-Tuner and Home Dock to the XM jack ㉑ on the unit, or the SIRIUS Connect Home tuner to the SIRIUS connector ⑲ on the unit. You can also connect both tuner units.

(XM)

XM Mini-Tuner and Home Dock (not supplied)
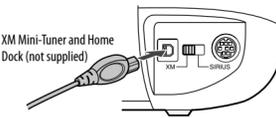
(SIRIUS)
The SIRIUS Connect Home tuner need not be connected to a wall outlet through the AC power adaptor since it is powered from the unit.

Satellite Radio Home Antenna (not supplied)

DIN cable (not supplied)

SiriusConnect Home Tuner (not supplied)
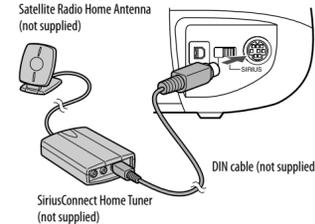
To listen to XM or SIRIUS

1 Switch to XM or SIRIUS ⑳ when the unit is turned off.

2 Press POWER ① to turn on the unit.

3 Press SATELLITE-RADIO ⑰ to select "XM" or "SIRIUS".

4 Press MODE ⑥ repeatedly until "CAT" disappears to select All Channel mode.

5 Press TUNE/CHANNEL + or – ⑦ repeatedly to select the channel.

On the remote
Press RADIO•BAND ⑫ repeatedly to select "XM" or "SIRIUS".

To select a channel in Category mode

1 Do steps 1 to 3 of "To listen to XM or SIRIUS" to select "XM" or "SIRIUS".

2 Press MODE ⑥ repeatedly until "CAT" appears.

3 Press PRESET/CATEGORY + or – ⑦ (CATEGORY + or – ⑦ on the remote) repeatedly to select the category.

4 Press TUNE/CHANNEL + or – ⑦ repeatedly to select the channel.

To select a channel using the number buttons
Press the number buttons on the remote.
For example, to enter 123, press 1,2, 3 ㉓, and then ENTER ⑦.

Notes
- If you select a channel using the number buttons ㉓ in Category mode, the tuning mode changes to All Channel mode automatically.
- You cannot switch from XM to SIRIUS (or vice versa) ⑳ while the unit is turned on. If you want to switch from XM to SIRIUS (or vice versa) ⑳, be sure to turn the unit off first.
- You cannot select a SIRIUS channel using TUNE/CHANNEL + or – ⑦ if the Parental Lock is set for the channel.

To check your XM Radio ID or SIRIUS ID number
Press the number button 0 ㉓, then press ENTER ⑦ to select channel 0.

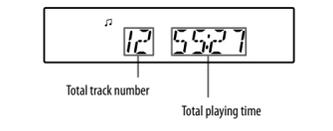* VOLUME + ⑧, ▶ ③ on the unit and 5 ㉓ on the remote have a tactile dot.

Using the display

You can check information about the CD using the display.

To check the total track number and playing time of the CD

Press ■ 3 to stop the CD playback.

Total track number
Total playing time

To check the remaining time

Press DISPLAY 4 on the unit while playing a CD. The display changes as follows:

↓ The current track number and playing time
↓ The current track number and the remaining time of the current track*
↓ The number of tracks left and the time remaining on the CD
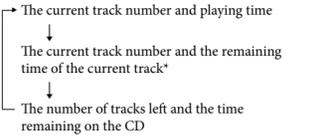
* For a track whose number is more than 20, the remaining time appears as "– – : – –" in the display.

Playing tracks repeatedly
(Repeat Play)

You can play tracks repeatedly in normal, Shuffle or Program play modes.

1 Press CD 11.
"CD" appears in the display.

2 Proceed as follows.

To repeat	Do this
A single track	1 Press REPEAT 5 until "⊂ 1" appears.
	2 Press ◄◄/I◄◄ or ►►I/►► (I◄◄ or ►►I on the remote) 7 to select the track that you want to repeat.
	3 Press ► 3.
All tracks on the CD	1 Press REPEAT 5 repeatedly until "⊂" appears.
	2 Press ► 3.
Tracks in random order	1 Press MODE 6 repeatedly until "SHUF" appears, and then press REPEAT 5 to show "⊂".
	2 Press ► 3.
Programed tracks	1 Press MODE 6 repeatedly until "PGM" appears, and then press REPEAT 5 to show "⊂".
	2 Program tracks (see step 3 of "Creating your own program").
	3 Press ► 3.

On the remote
• To select the CD function, press FUNCTION 22 repeatedly until "CD" appears in the display.
• To select the track number, press the number buttons 23 and then ENTER 7.

To cancel Repeat Play
Press REPEAT 5 until "⊂" disappears from the display.

Playing tracks in random order (Shuffle Play)

You can play tracks in random order.

1 Press CD 11.
"CD" appears in the display.

2 Press MODE 6 repeatedly until "SHUF" appears in the display.

3 Press ► 3 to start Shuffle Play.

On the remote
To select the CD function, press FUNCTION 22 repeatedly until "CD" appears in the display.

To cancel Shuffle Play
Stop playing first. Then press MODE 6 repeatedly until "SHUF" disappears from the display.

Tip
During Shuffle Play, you cannot select the previous track by pressing ◄◄/I◄◄ (I◄◄ on the remote) 7.

Creating your own program (Program Play)

You can arrange the playing order of up to 20 tracks on a CD.

1 Press CD 11.
"CD" appears in the display.

2 Press MODE 6 repeatedly until "PGM" flashes in the display.

3 Press ◄◄/I◄◄ or ►►I/►► (I◄◄ or ►►I on the remote) 7 then press ENTER 7 for the tracks you want to program in the order you want.

Programed track number
Playing order
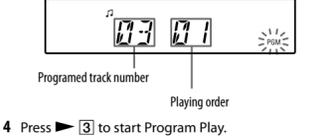
4 Press ► 3 to start Program Play.

On the remote
• To select the CD function, press FUNCTION 22 repeatedly until "CD" appears in the display.
• After you have selected "PGM", press the number buttons 23 for the tracks you want to program in the order you want, and then ENTER 7.

To cancel Program Play
Stop playing first. Then press MODE 6 repeatedly until "PGM" disappears from the display.

To delete the last track of the program
Press CLEAR 24 on the remote while the player is stopped.

To check the order of tracks before play
Press ENTER 7.
Every time you press the button, the track number appears in the programed order.

To change the current program
Press ■ 3 once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programing procedure.

Tips
• If you try to program 21 tracks or more, "FULL" will appear in the display.
• You can play the same program again, since the program is saved until you open the CD tray or turn off the power of the unit.

Presetting FM or AM radio stations

You can store radio stations into the unit's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.

1 Press RADIO BAND•AUTO PRESET 12 on the unit to select the band.

2 Hold down RADIO BAND•AUTO PRESET 12 on the unit for 2 seconds until "AUTO" flashes in the display.

3 Press ENTER 7 while "AUTO" flashes in the display.
The stations are stored in memory from the lower frequencies to the higher ones.

If a station cannot be preset automatically
You need to preset a station with a weak signal manually.

1 Press RADIO BAND•AUTO PRESET 12 on the unit to select the band.

2 Tune in a station you want.

3 Hold down ENTER 7 on the unit for 2 seconds until the preset number flashes in the display.

4 Press PRESET/CATEGORY + or – 7 on the unit until the preset number you want for the station flashes in the display.

5 Press ENTER 7 on the unit.
The new station replaces the old one.

On the remote
1 Press RADIO•BAND 12 repeatedly until the band you want appears in the display.

2 Tune in a station you want.

3 Hold down the number buttons 23 that you want to preset the new station on for about 2 seconds.
To select a one-digit preset number, hold down the number for about 2 seconds.
To select a two-digit preset number, press the first digit, and then hold down the second digit for about 2 seconds.
(Examples)
For preset number1: Hold down 1 23 for about 2 seconds.
For preset number 12: Press 1 23, and then hold down 2 23 for about 2 seconds.

Tip
The preset radio stations remain in memory even if you unplug the AC power cord or remove the batteries.

Playing preset FM or AM radio stations

1 Press RADIO BAND•AUTO PRESET 12 on the unit to select the band.

2 Press PRESET/CATEGORY + or – 7 on the unit (PRESET + or – 7 on the remote) to tune in the stored station.

On the remote
1 Press RADIO•BAND 12.

2 Press the number buttons 23, and then press ENTER 7 to tune in the stored station.
(Examples)
For preset number 1: Press 1 23, and then ENTER 7.
For preset number 12: Press 1, 2 23, and then ENTER 7.

Presetting satellite radio channels

You can preset up to 20 XM and 20 SIRIUS channels.

1 Do steps 1 to 5 of "To listen to XM or SIRIUS" to select the channel you want to preset.

2 Hold down ENTER 7 for 2 seconds or more.
The preset number "1" (default setting) flashes if it is the first time to do the procedure, or the preset number immediately following the last preset number added.

3 Press PRESET/CATEGORY 7 (PRESET + or – 7 on the remote) repeatedly to select your desired preset number.

4 Press ENTER 7.

Note
You cannot preset XM or SIRIUS channels except when you receive the channel.

Playing preset satellite radio channels

1 Do steps 1 to 4 of "To listen to XM or SIRIUS" to select the channel you want to preset.

2 Press PRESET/CATEGORY + or – 7 (PRESET + or – 7 on the remote) repeatedly to select your desired preset channel in All Channel mode.

To view XM/SIRIUS information
Each time you press DISPLAY 4 on the unit, the display will change as follows;

"CH NAME"   Channel name
↓
Preset number/Channel number (for 4 seconds)
↓
"♣"   Artist name*
↓
"♪"   Song title
↓
"CAT"   Category name

* In the case of SIRIUS, the name of the composer is shown with artist name.

Restricting access to specific channels (SIRIUS only)

Parental Lock

You can restrict access to certain channels using your own password. The password is set to "0000" as the default. Change the password before you use this function for the first time (see "To change the password").

1 While the SIRIUS channel you want to lock is selected, press PARENTAL LOCK 25 on the remote.
"LOCK" flashes in the display.

2 Press ENTER 7.
"ENTERCODE" appears in the display.

3 Enter a 4-digit password using the number buttons 23 on the remote.
"COMPLETE" appears in the display. If "INVALID" appears, repeat steps 1 to 3.

To delete the number you have entered
Press CLEAR 24 on the remote repeatedly.

To change the password

1 While the SIRIUS channel is selected, press PARENTAL LOCK 25 on the remote repeatedly until "EDIT CODE" flashes in the display.

2 Press ENTER 7.
"OLD CODE" appears in the display.

3 Enter the current 4-digit password using the number buttons 23 on the remote.
"NEW CODE" appears in the display.

4 Enter a new 4-digit password using the number buttons 23 on the remote.
"CONFIRM" appears in the display.

5 Re-enter the new password to confirm it.
"COMPLETE" appears in the display. If "INVALID" appears, repeat steps 1 to 5.

To listen to the locked channels

1 Select a locked channels you want to listen to using the number buttons 23 on the remote.
"ENTERCODE" appears in the display.

2 Enter your 4-digit password using the number buttons 23 on the remote.
The channel is tuned in.

To unlock a channel

1 While the SIRIUS channel you want to unlock is selected, press PARENTAL LOCK 25 on the remote repeatedly until "UNLOCK" flashes in the display.

2 Press ENTER 7.
"COMPLETE" appears in the display.

Notes
• When you select a channel using TUNE/CHANNEL + or – 7 in All Channel mode or Category mode, locked channels are skipped.
• The display will return to the original indication if you press ■ 3 or if no entry is made for a set period of time after you have been prompted to enter the password.
• When the unit is reset to the factory settings, the Parental Lock password returns to the default ("0000"), but Parental Lock settings are not removed.
• You cannot preset locked channels.
• If you set the Parental Lock for a preset channel, the preset information for that channel returns to the default.
• You cannot set the Parental Lock for channels 0 or 184.

Falling asleep to music

1 Play the music source you want.

2 Press SLEEP 18 on the unit to display "SLEEP".

3 Press SLEEP 18 on the unit to select the minutes until the unit goes off automatically.
Each time you press the button, the indication changes as follows:
"AUTO" → "60MIN" → "30MIN" → "20MIN" → "10MIN" → "OFF".
* When you select "AUTO", the CD stops playing in 90 minutes at most and the unit goes off automatically. When you are listening to the radio, the radio goes off in 90 minutes.
If 4 seconds have passed after you pressed SLEEP 18, the minutes in the display are entered.
When the preset time has passed, the unit goes off automatically.

To cancel the sleep function
Press POWER 1 to turn off the power.

Tip
The display's backlight goes off while sleeping time is active.

Connecting optional component

You can enjoy the sound from a PC, TV, VCR, portable digital music player, etc. through the speakers of this unit. Be sure to turn off the power of each component before making any connections.
For details, refer to the instruction manual of the component to be connected.

1 Connect the AUDIO IN jack 15 on the unit to the line output jack of the portable digital music player or other components using an audio connecting cable* (not supplied).
* For a PC: use a cable which fills the connector of your PC.
For a TV or VCR: use a cable with a stereo-mini plug on one end and two phono plugs on the other end.
For a portable digital music player: use a cable with a stereo-mini plug on both ends.

2 Turn the unit and the connected component on.

3 Press AUDIO IN 13 on the unit and start playing sound on the connected component.
The sound from the connected component is output from the speakers.

Precautions

Discs that this unit CAN play
• Audio CD
• CD-R/CD-RW (CD-DA*)
* CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for Audio CDs.

Discs that this unit CANNOT play
• CD-R/CD-RW other than those recorded in music CD format
• CD-R/CD-RW of poor recording quality, CD-R/CD-RW that has scratches or are dirty, or CD-R/CD-RW recorded with an incompatible recording device
• CD-R/CD-RW which is finalized incorrectly

Notes on discs
• Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out. If there is a scratch, dirt or fingerprints on the CD, it may cause tracking error.

• Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
• Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.
• Do not stick paper or sticker on the CD, nor scratch the surface of the CD.
• After playing, store the CD in its case.

On safety
• As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
• Should any solid object or liquid fall into the unit, unplug the unit, and have it checked by qualified personnel before operating it any further.
• Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.

On power sources
• For AC operation, use the supplied AC power cord; do not use any other type.
• The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
• Unplug the unit from the wall outlet when it is not used for an extended period of time.
• When the batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or corrosion.
• The nameplate indicating operating voltage, power consumption, etc. is located at the bottom.

On placement
• Do not leave the unit in a location near heat sources, in a place subject to direct sunlight, excessive dust or mechanical shock or in a car subject to the direct rays of the sun.
• Do not place the unit on an inclined or unstable place.
• Do not place anything within 10 mm of the side of the cabinet. The ventilation holes must be unobstructed for the unit to operate properly and prolong the life of its components.
• Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the unit to prevent possible damage from the magnet.

On operation
• If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player section. Should this occur, the unit will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.

Cleaning the cabinet
• Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

Troubleshooting

General

The power is not on.
• Connect the AC power cord to the wall outlet securely.
• Make sure the batteries are inserted correctly.
• Replace all the batteries with new ones if they are weak.
• You cannot turn on the unit with the remote when you operate the unit on batteries.

There is no audio.
• Make sure the function you want to use appears in the display window.
• Unplug the headphones when listening through speakers.

Noise is heard.
• Someone is using a portable telephone or other equipment that emits radio waves near the unit.
→ Move the portable telephone, etc., away from the unit.

CD player

The CD does not play or "NO DISC" is displayed even when a CD is in place.
• Place the CD with the label surface up.
• Clean the CD.
• Take out the CD and leave the CD compartment open for about an hour to dry moisture condensation.
• The CD-R/CD-RW is blank.
• There is a problem with the quality of the CD-R/CD-RW, recording device or application software.
• Replace all the batteries with new ones if they are weak.

The sound drops out.
• Reduce the volume.
• Clean the CD, or replace it if the CD is badly damaged.
• Place the unit in a location free from vibration.
• Clean the lens with a commercially available blower.
• The sound may drop out or noise may be heard when using poor quality CD-R/CD-RW or if there is a problem with the recording device or application software.
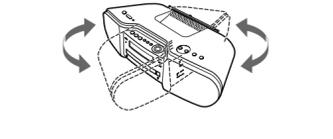
FM or AM radio

Reception is poor.
• Reorient the antenna to improve FM reception.

• Reorient the unit itself to improve AM reception.

Noise is heard.
• The SIRIUS Connect Home tuner is connected to a wall outlet through the AC power adaptor.
→ Disconnect the AC power adaptor.

The audio is weak or has poor quality.
• Replace all the batteries with new ones if they are weak.
• Move the unit away from the TV.
• If you are using the remote while listening to AM radio, noise may be heard.

The picture of your TV becomes unstable.
• If you are listening to an FM program near the TV with an indoor antenna, move the unit away from the TV.

Satellite radio (XM or SIRIUS)

The unit cannot receive satellite channels at all.
• Check that the XM Mini-Tuner and Home Dock or the SiriusConnect Home tuner are connected properly.
• The receiving condition is not good. Move the antenna to the place where the condition is good.
• Check that you subscribed to the desired satellite radio service (see "Before using the unit").

Remote

The remote does not function.
• Replace all the batteries in the remote with new ones if they are weak.
• Make sure that you are pointing the remote at the remote sensor on the unit.
• Remove any obstacles in the path of the remote and the unit.
• Make sure the remote sensor is not exposed to strong light such as direct sunlight or fluorescent lamp light.
• Move closer to the unit when using the remote.

To reset the unit to factory settings
If the unit still does not operate properly, reset the unit to factory settings.
Use buttons on the unit to reset the unit to its factory default settings.

1 Remove all the batteries from the unit.

2 Disconnect and reconnect the power cord, and then turn on the unit.

3 Press ■ 3, ENTER 7 and POWER 1 on the unit at the same time.
All user-configured settings, such as preset radio stations and SIRIUS Parental Lock password, are deleted.

After trying the remedies, if the problem persists, please consult your nearest Sony dealer.

Messages

XM
ANTENNA : The XM Mini-Tuner and Home Dock is not connected. Check the connection of the antenna cord, and then turn the system on again.
CH – – – : You have entered an invalid channel number. The channel to be tuned-in is void due to the change by the broadcast service, or the receiving condition is not good.
LOADING : The system have not finished receiving the entire audio data or text information. Some buttons are not available.
NO SIGNAL : The receiving condition is not good. Try moving the antenna to another location. Make sure the antenna points south. For details about the antenna location, see the instructions supplied with the XM Mini-Tuner and Home Dock.
OFF AIR : The channel is not broadcasted now.
UPDATING : You have not subscribed for XM or the channel is not authorized. You need to subscribe for XM.
– – – – : 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 system condition, for example, right after the system has received a channel.

SIRIUS
ANTENNA : The antenna is not connected properly. Check the connection between the SiriusConnect Home tuner and the antenna.
LINKING : The receiving condition is not good. Try moving the antenna to another location. For details about the antenna location, see the instructions supplied with the SiriusConnect Home tuner.
CALL 888-539-SIRI : You have not subscribed for the selected channel.
CHECK SIRIUS : The SiriusConnect Home tuner is not connected properly. Check all the connections, and then turn the system on again.
INVALID : You have entered an invalid channel number. The channel to be tuned-in is void due to the change by the broadcast service, or the receiving condition is a problem with the recording device or application software.
SUB UPDT : You have not subscribed for SIRIUS or the channel is not authorized. You need to subscribe for SIRIUS.
UPDATING : Channel information or SiriusConnect Home tuner firmware is being updated.
– – – – : 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 system condition, for example, right after the system has received a channel.

Display examples

Display	indicates
2	2 (two)
5	5 (five)
6	6 (six)
8	8 (eight)
0	0 (zero)
A	A
B	B
D	D
G	G
H	H
K	K
M	M
O	O
Q	Q
R	R
S	S
Z	Z
!	! or I
"	"
$	$
%	%
'	'
`	`
?	?
@	@
^	^