SONY

4-484-593-**21**(1)

FM/AM Digital Media Player

Operating Instructions GB

Mode d'emploi FR

Manual de instrucciones ES

Owner's Record

The model and serial numbers are located on the bottom of the unit.

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. DSX-M50BT

Serial No. _____

To switch the FM/AM tuning step, see page 10.
To cancel the demonstration (DEMO) display, see page 20.

Pour commuter l'intervalle de syntonisation FM/AM, reportez-vous à la page 10.
Pour annuler l'affichage de démonstration (DEMO), reportez-vous à la page 23.

Para cambiar el paso de sintonización de FM/AM, consulta la página 10.
Para cancelar la pantalla de demostración (DEMO), consulte la página 21.

Made for iPod iPhone

Bluetooth®

DSX-M50BT

Be sure to install this unit in the dashboard of the boat for safety.
For installation and connections, see the supplied installation/connections manual.

Warning

FOR THE CUSTOMERS IN THE USA. NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF QUEBEC.
POUR LES CLIENTS AUX ÉTATS-UNIS. NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE QUÉBEC.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

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

This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). 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 of the device.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

For the State of California, USA only

Perchlorate Material – special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate
Perchlorate Material: Lithium battery contains perchlorate

Made in Thailand

The nameplate indicating operating voltage, etc., is located on the bottom of the chassis.

CE

Hereby, Sony Corp., declares that this DSX-M50BT is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
For details, please access the following URL:
http://www.compliance.sony.de/

Notice for customers: the following information is only applicable to equipment sold in countries applying EU Directives

Manufacturer: Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
For EU product compliance: Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany

Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other European countries with separate collection systems)

This symbol on the product, the battery or on the packaging indicates that the product and the battery shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these products and batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources.
In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

Note on the lithium battery

Do not expose the battery to excessive heat such as direct sunlight, fire or the like.

Note on the waterproof cover of the unit

Under the environment of potential water splash, Sony highly recommends to protect the unit with Waterproof Car Stereo Cover (not supplied).
While an iPod or USB device is connected, the Waterproof Car Stereo Cover cannot be fully closed. Avoid splashing water on the unit.

Warning if your boat's ignition has no ACC position

Be sure to set the AUTO OFF function (page 21). The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain. If you do not set the AUTO OFF function, press and hold OFF until the display disappears each time you turn the ignition off.

Notes on BLUETOOTH function

Caution

IN NO EVENT SHALL SONY BE LIABLE FOR ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR OTHER DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS, LOSS OF REVENUE, LOSS OF DATA, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, DOWNTIME, AND PURCHASER'S TIME RELATED TO OR ARISING OUT OF THE USE OF THIS PRODUCT, ITS HARDWARE AND/OR ITS SOFTWARE.

IMPORTANT NOTICE!

Safe and efficient use

Changes or modifications to this unit not expressly approved by Sony may void the user's authority to operate the equipment. Please check for exceptions, due to national requirement or limitations, in usage of BLUETOOTH equipment before using this product.

Driving

Check the laws and regulations on the use of cellular phones and handsfree equipment in the areas where you drive.
Always give full attention to driving and stop the boat in a safe place before making or answering a call if driving conditions so require.

Connecting to other devices

When connecting to any other device, please read its user guide for detailed safety instructions.

Radio frequency exposure

RF signals may affect improperly installed or inadequately shielded electronic systems in boats, such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems or air bag systems. For installation or service of this device, please consult with the manufacturer or its representative of your boat. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to this device. Consult with the manufacturer of your boat to ensure that the use of your cellular phone in the boat will not affect its electronic system.
Check regularly that all wireless device equipment in your boat is mounted and operating properly.

Emergency calls

This BLUETOOTH boat handsfree and the electronic device connected to the handsfree operate using radio signals, cellular, and landline networks as well as user-programmed function, which cannot guarantee connection under all conditions. Therefore do not rely solely upon any electronic device for essential communications (such as medical emergencies).
Remember, in order to make or receive calls, the handsfree and the electronic device connected to the handsfree must be switched on in a service area with adequate cellular signal strength.
Emergency calls may not be possible on all cellular phone networks or when certain network services and/or phone features are in use.
Check with your local service provider.

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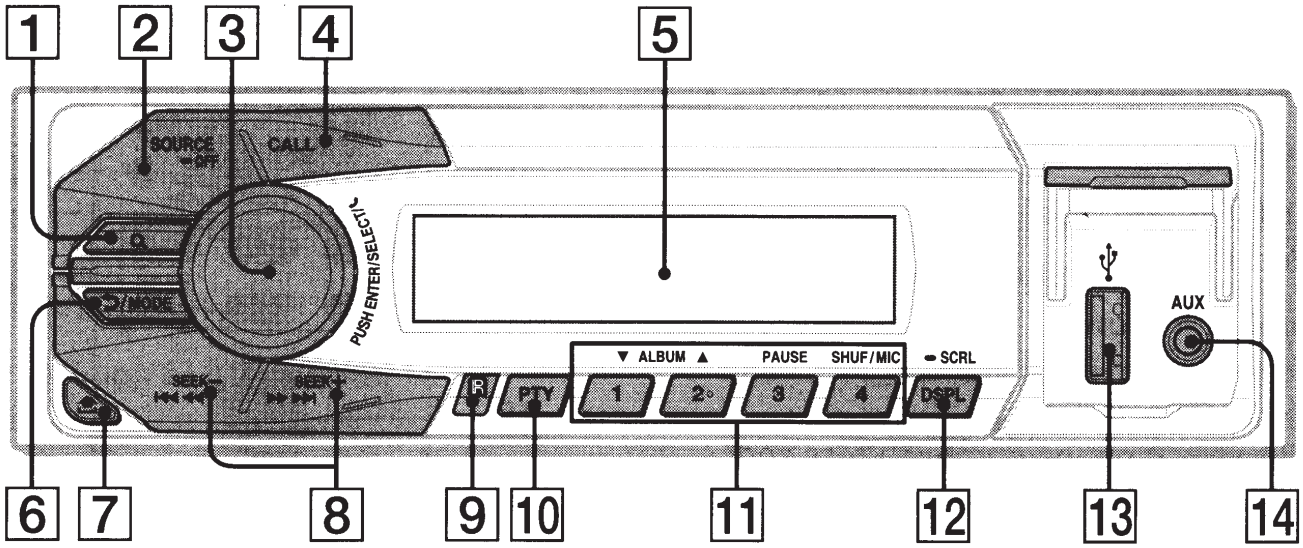
Guide to Parts and Controls

Main unit



The number 2/ALBUM ▲ button has a tactile dot.

1 **Q (browse) (page 17)**
Enter the browse mode during playback.

2 **SOURCE**
Turn on the power.
Change the source.

-OFF
Press and hold for 1 second to turn off the power.
Press and hold for more than 2 seconds to turn off the power and the display.
If the unit is turned off and the display disappears, it is unable you to operate with the remote.

3 **Control dial**
Rotate to adjust the volume.

ENTER
Enter the selected item.

SELECT
Enter sound setting.
Press and hold to open the general setup menu.

(handsfree)
Receive/end a call.

4 **CALL**
Enter the call menu.
Press and hold more than 2 seconds to switch the BLUETOOTH signal.

5 **Display window**

6 **↩ (back)**
Return to the previous display.
MODE (page 13, 15, 20)

7 **⏏ (front panel release)**

8 **SEEK +/–**
Tune in radio stations automatically.
Press and hold to tune manually.
⏮/⏭ (prev/next), ◀◀/▶▶ (reverse/fast-forward)

9 **Receptor for the remote commander**

10 **PTY (program type)**
Select PTY in RDS.

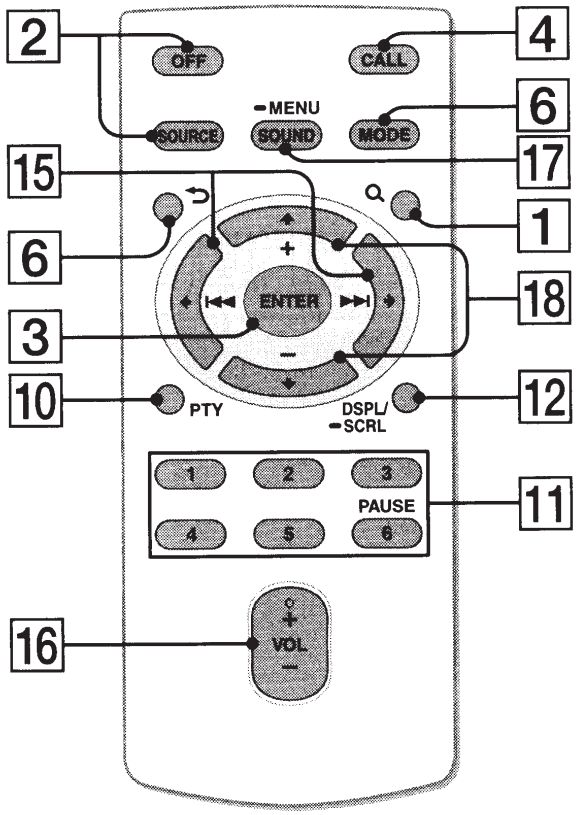
11 **Number buttons**
Receive stored radio stations. Press and hold to store stations.
Call a stored phone number. Press and hold to store a phone number.
ALBUM ▼/▲
Skip an album for audio device. Press and hold to skip albums continuously.
PAUSE
SHUF (shuffle)
MIC (page 20)

12 **DSPL (display)**
Change display items.
-SCRL (scroll)
Press and hold to scroll a display item.

13 **USB port**

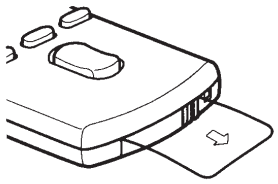
14 **AUX input jack**

RM-X231 Remote



The VOL (volume) + button has a tactile dot.

Remove the insulation film before use.



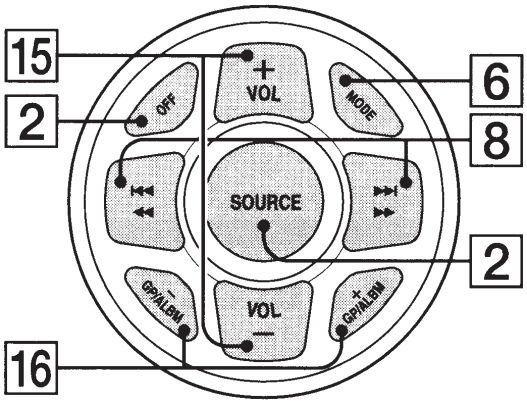
15 **← (⏮)/→ (⏭)**

16 **VOL (volume) +/–**

17 **SOUND**
Open the sound setup menu directly.
-MENU
Press and hold to open the general setup menu.

18 **↑ (+)/↓ (–)**

RM-X11M Marine remote (not supplied)



15 **VOL (volume) +/–**

16 **GP (group)/ALBM (album) +/–**
Receive stored stations.

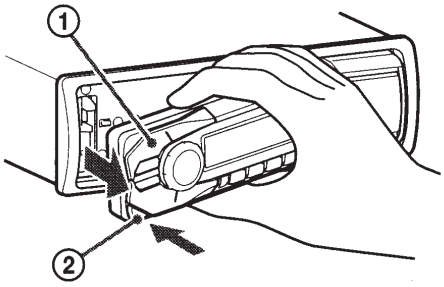
Getting Started

Detaching the Front Panel

You can detach the front panel of this unit to prevent theft.

1 **Press and hold OFF ①.**
The unit is turned off.

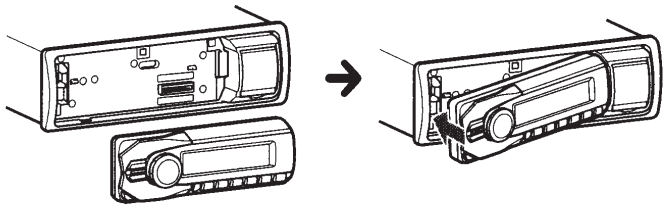
2 **Press ⏏ ②, then remove the panel by pulling it towards you.**



Caution alarm

If you turn the ignition switch to the OFF position without detaching the front panel, the caution alarm will sound for a few seconds. The alarm will only sound if the built-in amplifier is used.

Attaching the front panel



Switching the FM/AM Tuning Step

Set the FM/AM tuning step of your country. This setting appears when this unit is turned off.

1 Press and hold SELECT.
The setup display appears.

2 Rotate the control dial to select [TUNER-STP], then press it.

3 Rotate the control dial to select from [50K/9K], [100K/10K] or [200K/10K], then press it.

Setting the Clock

1 Press and hold SELECT.
The setup display appears.

2 Rotate the control dial to select [CLOCK-ADJ], then press it.
The hour indication flashes.

3 Rotate the control dial to set the hour and minute.
To move the digital indication, press SEEK +/−.

4 After setting the minute, press SELECT.
The setup is complete and the clock starts.

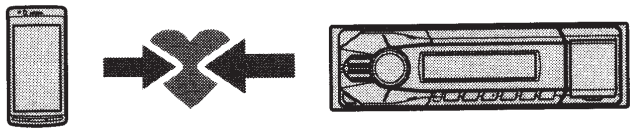
To display the clock, press DSPL.

Preparing a BLUETOOTH Device

You can enjoy music, or perform handsfree calling, by connecting a suitable BLUETOOTH device. For details on connecting, refer to the operating instructions supplied with the device.
Before connecting the device, turn down the volume of this unit; otherwise, loud sound may result.

Pairing and connecting with a BLUETOOTH device

When connecting a BLUETOOTH device (cellular phone, audio device, etc.) for the first time, mutual registration (called "pairing") is required. Pairing enables this unit and other devices to recognize each other.



1 Place the BLUETOOTH device within 1 m (3 ft) of this unit.

2 **Press CALL, rotate the control dial to select [PAIRING], then press it.**

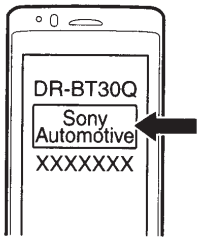
flashes.

The unit enters pairing standby mode.

3 **Perform pairing on the BLUETOOTH device so it detects this unit.**

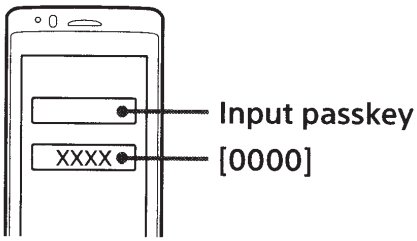
4 **Select [Sony Automotive] shown in the display of the BLUETOOTH device.**

If [Sony Automotive] does not appear, repeat from step 2.



5 **If passkey* input is required on the BLUETOOTH device, input [0000].**

* Passkey may be called "passcode," "PIN code," "PIN number" or "Password," etc., depending on the device.



When pairing is made, stays lit.

6 **Select this unit on the BLUETOOTH device to establish the BLUETOOTH connection.**

or lights up when the connection is made.

Note

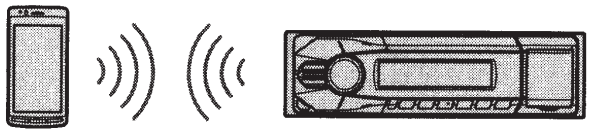
While connecting to a BLUETOOTH device, this unit cannot be detected from another device. To enable detection, enter the pairing mode and search for this unit from another device.

To cancel pairing

Perform step 2 to cancel the pairing mode after this unit and the BLUETOOTH device are paired.

Connecting with a paired BLUETOOTH device

To use a paired device, connection with this unit is required. Some paired devices will connect automatically.



1 **Press CALL, rotate the control dial to select [BT SIGNL], then press it.**

Make sure that lights up.

2 **Activate the BLUETOOTH function on the BLUETOOTH device.**

3 **Operate the BLUETOOTH device to connect to this unit.**

or lights up.

Icons in the display:

	Lights up when a cellular phone is connected to the unit.
	Lights up when an audio device is connected to the unit.

To connect the last-connected device from this unit

Activate the BLUETOOTH function on the BLUETOOTH device.
Press SOURCE.
Select [BT PHONE] or [BT AUDIO].
Press (handsfree) to connect with the cellular phone, or PAUSE to connect with the audio device.

Note

While streaming BLUETOOTH audio, you cannot connect from this unit to the cellular phone. Connect from the cellular phone to this unit instead.

Tip

With BLUETOOTH signal on: when the ignition is turned to on, this unit reconnects automatically to the last-connected cellular phone.

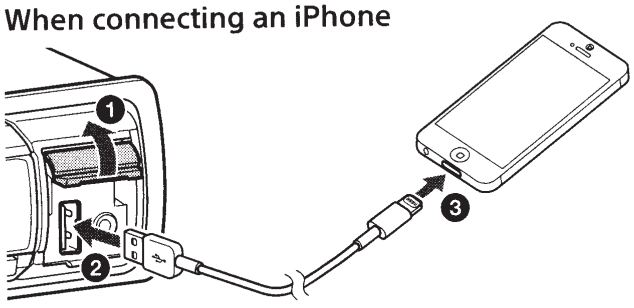
Connecting an iPod/USB Device

1 Turn down the volume on the unit.

2 Connect the iPod/USB device to the unit.

To connect an iPod/iPhone, use the USB connection cable for iPod (not supplied).

When connecting an iPhone



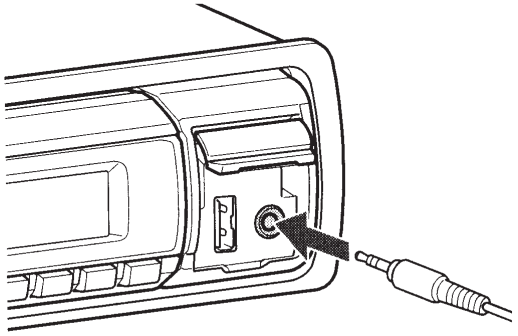
Connecting Other Portable Audio Device

1 Turn off the portable audio device.

2 Turn down the volume on the unit.

3 Connect the portable audio device to the AUX input jack (stereo mini jack) on the unit with a connecting cord (not supplied)*.

* Be sure to use a straight type plug.



4 Press SOURCE to select [AUX].

To match the volume level of the connected device to other sources

Start playback of the portable audio device at a moderate volume, and set your usual listening volume on the unit.
Press SELECT, and rotate the control dial to select [AUX VOL] (page 22).

Listening to the Radio

Tuning step setting is required (page 10).
To listen to the radio, press SOURCE to select [TUNER].

Storing automatically (BTM)

1 Press MODE to change the band.

2 Press and hold SELECT (FM1, FM2, FM3, AM1 or AM2).
The setup display appears.

3 Rotate the control dial to select [BTM], then press it.
The unit stores stations in order of frequency on the number buttons.

Tuning

1 Press MODE to change the band (FM1, FM2, FM3, AM1 or AM2).

2 Perform tuning.

To tune manually
Press and hold SEEK +/– to locate the approximate frequency, then press SEEK +/– repeatedly to fine adjust to the desired frequency.

To tune automatically
Press SEEK +/–.
Scanning stops when the unit receives a station. Repeat this procedure until the desired station is received.

Storing manually

1 While receiving the station that you want to store, press and hold a number button (1 to 6) until [MEM] appears.

Receiving the stored stations

1 Select the band, then press a number button (1 to 6).

Using Radio Data System (RDS)

Selecting program types (PTY)

Use PTY to display or search for a desired program type.

1 Press PTY during FM reception.

2 Rotate the control dial until the desired program type appears, then press it.
The unit starts to search for a station broadcasting the selected program type.

Type of programs (tuner step: 200 kHz/10 kHz)

NEWS (News), **INFORM** (Information), **SPORTS** (Sports), **TALK** (Talk), **ROCK** (Rock), **CLS ROCK** (Classic Rock), **ADLT HIT** (Adult Hits), **SOFT RCK** (Soft Rock), **TOP 40** (Top 40), **COUNTRY** (Country), **OLDIES** (Oldies), **SOFT** (Soft), **NOSTALGA** (Nostalgia), **JAZZ** (Jazz), **CLASSICL** (Classical), **R AND B** (Rhythm and Blues), **SOFT R B** (Soft Rhythm and Blues), **LANGUAGE** (Foreign Language), **REL MUSC** (Religious Music), **REL TALK** (Religious Talk), **PERSNLTY** (Personality), **PUBLIC** (Public), **COLLEGE** (College), **WEATHER** (Weather)

Type of programs (tuner step: 100 kHz/10 kHz, 50 kHz/9 kHz)

NEWS (News), **AFFAIRS** (Current Affairs), **INFO** (Information), **SPORT** (Sports), **EDUCATE** (Education), **DRAMA** (Drama), **CULTURE** (Culture), **SCIENCE** (Science), **VARIED** (Varied), **POP M** (Pop Music), **ROCK M** (Rock Music), **EASY M** (M.O.R. Music), **LIGHT M** (Light classical), **CLASSICS** (Serious classical), **OTHER M** (Other Music), **WEATHER** (Weather), **FINANCE** (Finance), **CHILDREN** (Children's program), **SOCIAL A** (Social Affairs), **RELIGION** (Religion), **PHONE IN** (Phone In), **TRAVEL** (Travel), **LEISURE** (Leisure), **JAZZ** (Jazz Music), **COUNTRY** (Country Music), **NATION M** (National Music), **OLDIES** (Oldies Music), **FOLK M** (Folk Music), **DOCUMENT** (Documentary)

Setting clock time (CT)

The CT data from the RDS transmission sets the clock.

1 Set [CT-ON] in the general setup (page 21).

Playing an iPod/USB Device

In these Operating Instructions, "iPod" is used as a general reference for the iPod functions on an iPod and iPhone, unless otherwise specified by the text or illustrations.

For details on the compatibility of your iPod, see "About iPod" (page 23) or visit the support site on the back cover.

MSC (Mass Storage Class)-type USB devices (such as a USB flash drive, digital media player, Android™ phone) compliant with the USB standard can be used.
Depending on the digital media player or Android phone, setting the USB connection mode to MSC is required.

Notes

- For details on the compatibility of your USB device, visit the support site on the back cover.
- Playback of the following MP3/WMA files is not supported.
  - lossless compression files
  - copyright-protected files
  - DRM (Digital Rights Management) files
  - Multi-channel audio files

1 Connect an iPod/USB device to the USB port (page 12).

Playback starts.
If a device is already connected, to start playback, press SOURCE to select [USB].

2 Adjust the volume on this unit.

To stop playback

Press and hold OFF for 1 second.

To remove the device

Stop playback, then remove the device.

Caution for iPhone

When you connect an iPhone via USB, phone call volume is controlled by the iPhone, not the unit. Do not inadvertently increase the volume on the unit during a call, as sudden loud sound may result when the call ends.

Operating an iPod directly (Passenger control)

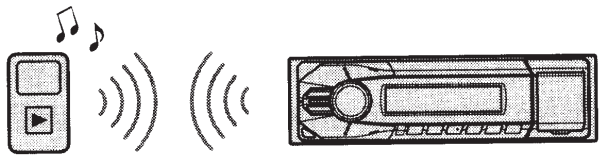
Press and hold MODE during playback to display [IPOD] to enable operation by the iPod directly.
Note that the volume can be adjusted only by the unit.

To exit passenger control

Press and hold MODE until [AUDIO] appears.

Playing a BLUETOOTH Device

You can play contents on a connected device that supports BLUETOOTH A2DP (Advanced Audio Distribution Profile).



1 Make BLUETOOTH connection with the audio device (page 10).

2 Press SOURCE to select [BT AUDIO].

3 Operate the audio device to start playback.

4 Adjust the volume on this unit.

5 Press PAUSE to start playback.

Notes

- Depending on the audio device, information such as title, track number/time and playback status may not be displayed on this unit.
- Even if the source is changed on this unit, playback of the audio device does not stop.

To match the volume level of the BLUETOOTH device to other sources

Start playback of the BLUETOOTH audio device at a moderate volume, and set your usual listening volume on the unit.
Press SELECT, and rotate the control dial to select [BTA VOL] (page 22).

Searching and Playing Tracks

Repeat play and shuffle play

Repeat play:

1 During playback, press and hold SELECT.

2 Rotate the control dial to select [REPEAT], then press it.

3 Rotate the control dial to select the desired play mode, then press it.

4 Press ⮌ (back) to return to the previous display.

Shuffle play:

1 During playback, press SHUF repeatedly to select the desired play mode.
Playback in selected play mode may take time to start.

Available play modes differ depending on the selected sound source.

Searching a track by name (Quick-BrowZer™)

1 During USB playback, press Q (browse)* to display the list of search categories.

When the track list appears, press ⮌ (back) repeatedly to display the desired search category.

* During playback, press Q (browse) for more than 2 seconds to directly return to the beginning of the category list.

2 Rotate the control dial to select the desired search category, then press it to confirm.

3 Repeat step 2 to search the desired track.

Playback starts.

To exit the Quick-BrowZer mode

Press Q (browse).

Searching by skipping items (Jump mode)

1 Press Q (browse).

2 Press SEEK +.

3 Rotate the control dial to select the item.

The list is jumped in steps of 10% of the total number of items.

4 Press ENTER to return to the Quick-BrowZer mode.

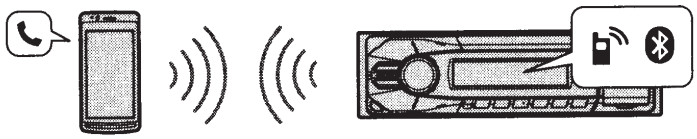
The selected item appears.

5 Rotate the control dial to select the desired item, then press it.

Playback starts.

Handsfree Calling

To use a cellular phone, connect it with this unit. For details, see "Preparing a BLUETOOTH Device" (page 10).



Receiving a Call

1 Press ✆ (handsfree) when a call is received with a ringtone.
The phone call starts.

Note
The ringtone and talker's voice are output only from the front speakers.

To reject the call
Press and hold OFF for 1 second.

To end the call
Press ✆ (handsfree) again.

Making a Call

You can make a call from the phonebook or call history when a cellular phone supporting PBAP (Phone Book Access Profile) is connected.

Calling from the phonebook

1 Press CALL, rotate the control dial to select [PH BOOK], then press it.

2 Rotate the control dial to select an initial from the initial list, then press it.

3 Rotate the control dial to select a name from the name list, then press it.

4 Rotate the control dial to select a number from the number list, then press it.
The phone call starts.

Calling from the call history

1 Press CALL, rotate the control dial to select [RECENT], then press it.
A list of the call history appears.

2 Rotate the control dial to select a name or phone number from the call history, then press it.
The phone call starts.

Calling by phone number input

1 Press CALL, rotate the control dial to select [DIAL NUM], then press it.

2 Rotate the control dial to enter the phone number, and lastly select [ ] (space), then press ✆ (handsfree)*.
The phone call starts.

* To move the digital indication, press SEEK +/–.

Note
[_] appears instead of [#] on the display.

Calling by redial

1 Press CALL, rotate the control dial to select [REDIAL], then press it.
The phone call starts.

Presetting phone numbers

You can store up to 6 contacts in the preset dial.

1 Select a phone number that you want to store in the preset dial, from the phonebook, call history or by inputting the phone number directly.
The phone number appears in the display of this unit.

2 Press and hold a number button (1 to 6) until [MEM] appears.
The contact is stored in the selected preset number.

Calling by preset number

1 Press CALL.

2 Press a number button (1 to 6) to select the contact you want to call.

3 Press ✆ (handsfree).
The phone call starts.

Calling by voice tags

You can make a call by saying the voice tag stored in a connected cellular phone that has a voice dialing function.

1 Press CALL, rotate the control dial to select [VO DIAL], then press it.

2 Say the voice tag stored on the cellular phone.
Your voice is recognized, and the call is made.

Available Operations during Call

To preset the volume of the ringtone and talker's voice

You can preset the volume level of the ringtone and talker's voice.

Adjusting the ringtone volume:
Rotate the control dial while receiving a call.

Adjusting the talker's voice volume:
Rotate the control dial during a call.

To adjust the volume for the other party (Mic gain adjustment)

Press MIC.
Adjustable volume levels: [MIC-LOW], [MIC-MID], [MIC-HI].

To reduce echo and noise (Echo Canceler/Noise Canceler Mode)

Press and hold MIC.
Settable mode: [EC/NC-1], [EC/NC-2].

To transfer a call

In order to activate/deactivate the appropriate device (this unit/cellular phone), press MODE or use your cellular phone.

Note

Depending on the cellular phone, handsfree connection may be cut off when call transfer is attempted.

Settings

Canceling the DEMO Mode

You can cancel the demonstration display which appears while this unit is turned off.

1 **Press and hold SELECT.**
The setup display appears.

2 **Rotate the control dial to select [DEMO], then press it.**

3 **Rotate the control dial to select [DEMO-OFF], then press it.**
The setting is complete.

4 **Press ↩ (back).**
The display returns to normal reception/play mode.

Basic Setting Operation

You can set items in the menu to the following procedure.
The following items can be set depending on the source and setting.

1 **Press SELECT for the sound setup, press and hold SELECT for the general setup, or press CALL for the BLUETOOTH setup.**

2 **Rotate the control dial to select the desired item, then press it.**

3 Rotate the control dial to select the options, then press it.

To return to the previous display

Press ⮌ (back).

General Setup

CLOCK-ADJ (clock adjust) (page 10)

TUNER-STP (tuner step) (page 10)

CT (clock time)
Activates the CT function: [ON], [OFF].

BEEP
Activates the beep sound: [ON], [OFF].

CAUT ALM (caution alarm)
Activates the caution alarm: [ON], [OFF] (page 9). (Available only when the unit is turned off.)

AUX-A (AUX audio)
Activates the AUX source display: [ON], [OFF]. (Available only when the unit is turned off.)

AUTO OFF
Shuts off automatically after a desired time when the unit is turned off: [NO], [30S] (30 seconds), [30M] (30 minutes), [60M] (60 minutes).

DEMO (demonstration)
Activates the dėmonstration: [ON], [OFF].

DIMMER
Changes the display brightness: [ON], [OFF].

AUTO SCR (auto scroll)
Scrolls long items automatically: [ON], [OFF].

REPEAT (page 16)

LOUDNESS (dynamic loudness)
Reinforces bass and treble for clear sound at low volume levels: [ON], [OFF].

BTM (page 13)

BT INIT (BLUETOOTH initialize)
Initializes all the BLUETOOTH related settings (pairing information, preset number, device information, etc.). When disposing the unit, initialize all the settings. (Available only when the unit is turned off.)

Sound Setup

EQ3 PRST (EQ3 preset)
Selects an equalizer curve from 7 equalizer curves or off: [XPLOD], [VOCAL], [EDGE], [CRUISE], [SPACE], [GRAVITY], [CUSTOM], [OFF].
The equalizer curve setting can be memorized for each source.

EQ3 LOW, EQ3 MID, EQ3 HIGH
Sets [CUSTOM] of EQ3.
Customizes the equalizer curve.
The volume level is adjustable in 1 dB steps, from -10 dB to +10 dB.

BALANCE
Adjusts the sound balance: [RIGHT-15 (R15)] – [CENTER (0)] – [LEFT-15 (L15)].

FADER
Adjusts the relative level: [FRONT-15 (F15)] – [CENTER (0)] – [REAR-15 (R15)].

AUX VOL (AUX volume level)
Adjusts the volume level for each connected auxiliary device: [+18 dB] – [0 dB] – [-8 dB].
This setting negates the need to adjust the volume level between sources.

BTA VOL (BLUETOOTH audio volume level)
Adjusts the volume level for each connected BLUETOOTH device: [+18 dB] – [0 dB] – [-8 dB].
This setting negates the need to adjust the volume level between sources.

BLUETOOTH Setup

PAIRING (page 10)

PH BOOK (phone book) (page 18)

REDIAL (page 19)

RECENT (recent call) (page 18)

VO DIAL (voice dial) (page 19)

DIAL NUM (dial number) (page 19)

RINGTONE
Selects whether this unit or the connected cellular phone outputs the ringtone: [1] (this unit), [2] (cellular phone).

AUTO ANS (auto answer)
Sets this unit to answer an incoming call automatically: [OFF], [1] (about 3 seconds), [2] (about 10 seconds).

BT SIGNL (BLUETOOTH signal) (page 11)
Activates the BLUETOOTH function: [ON], [OFF].

Additional Information

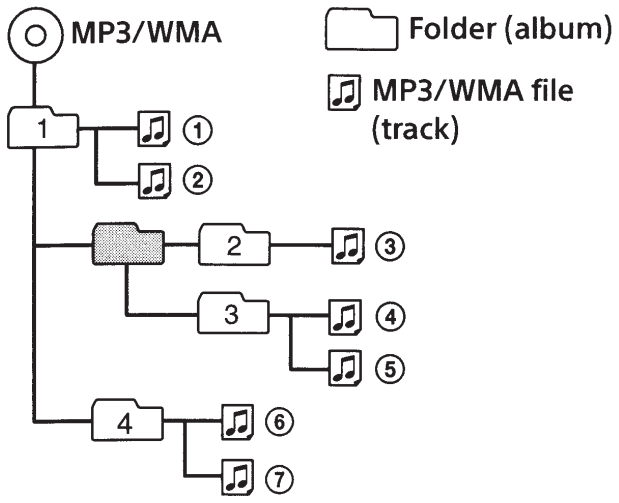
Precautions

- Cool off the unit beforehand if your boat has been moored in direct sunlight.
- Do not leave the front panel or audio devices brought in inside the boat, or it may cause malfunction due to high temperature in direct sunlight.
- Power antenna (aerial) extends automatically.

To maintain high sound quality

Do not splash liquid onto the unit.

Playback order of MP3/WMA files



About iPod

- You can connect to the following iPod models. Update your iPod devices to the latest software before use.
  Made for
  – iPod touch (5th generation)
  – iPod touch (4th generation)
  – iPod touch (3rd generation)
  – iPod touch (2nd generation)
  – iPod classic
  – iPod nano (7th generation)
  – iPod nano (6th generation)
  – iPod nano (5th generation)
  – iPod nano (4th generation)
  – iPod nano (3rd generation)
  – iPod nano (2nd generation)
  – iPod nano (1st generation)*
  – iPhone 5
  – iPhone 4S
  – iPhone 4
  – iPhone 3GS
  – iPhone 3G

  * Passenger control is not available for iPod nano (1st generation).

- "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

About BLUETOOTH function

What is BLUETOOTH technology?

- BLUETOOTH wireless technology is a short-range wireless technology that enables wireless data communication between digital devices, such as a cellular phone and a headset. BLUETOOTH wireless technology operates within a range of about 10 m (33 ft). Connecting two devices is common, but some devices can be connected to multiple devices at the same time.
- You do not need to use a cable for connection since BLUETOOTH technology is a wireless technology, neither is it necessary for the devices to face one another, such is the case with infrared technology. For example, you can use such a device in a bag or pocket.
- BLUETOOTH technology is an international standard supported by millions of companies all over the world, and employed by various companies worldwide.

On BLUETOOTH communication

- BLUETOOTH wireless technology operates within a range of about 10 m (33 ft). Maximum communication range may vary depending on obstacles (person, metal, wall, etc.) or electromagnetic environment.
- The following conditions may affect the sensitivity of BLUETOOTH communication.
  - There is an obstacle such as a person, metal, or wall between this unit and BLUETOOTH device.
  - A device using 2.4 GHz frequency, such as a wireless LAN device, cordless telephone, or microwave oven, is in use near this unit.
- Because BLUETOOTH devices and wireless LAN (IEEE802.11b/g) use the same frequency, microwave interference may occur and result in communication speed deterioration, noise, or invalid connection if this unit is used near a wireless LAN device. In such as case, perform the following.
  - Use this unit at least 10 m (33 ft) away from the wireless LAN device.
  - If this unit is used within 10 m (33 ft) of a wireless LAN device, turn off the wireless LAN device.
  - Install this unit and BLUETOOTH device as near to each other as possible.
- Microwaves emitting from a BLUETOOTH device may affect the operation of electronic medical devices. Turn off this unit and other BLUETOOTH devices in the following locations, as it may cause an accident.
  - where inflammable gas is present, in a hospital, train, airplane, or petrol station
  - near automatic doors or a fire alarm
- This unit supports security capabilities that comply with the BLUETOOTH standard to provide a secure connection when the BLUETOOTH wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using BLUETOOTH wireless technology.
- We do not take any responsibility for the leakage of information during BLUETOOTH communication.
- Connection with all BLUETOOTH devices cannot be guaranteed.
  - A device featuring BLUETOOTH function is required to conform to the BLUETOOTH standard specified by BLUETOOTH SIG, and be authenticated.

– Even if the connected device conforms to the above mentioned BLUETOOTH standard, some devices may not be connected or work correctly, depending on the features or specifications of the device.
– While talking on the phone hands free, noise may occur, depending on the device or communication environment.

- Depending on the device to be connected, it may require some time to start communication.

Others

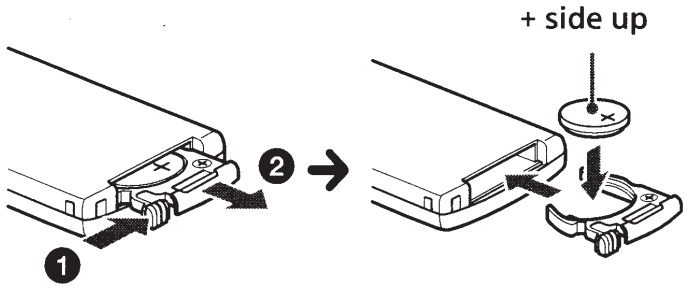
- Using the BLUETOOTH device may not function on cellular phones, depending on radio wave conditions and location where the equipment is being used.
- If you experience discomfort after using the BLUETOOTH device, stop using the BLUETOOTH device immediately. Should any problem persist, consult your nearest Sony dealer.

If you have any questions or problems concerning your unit that are not covered in this manual, consult your nearest Sony dealer.

Maintenance

Replacing the lithium battery of the remote commander

When the battery becomes weak, the range of the remote commander becomes shorter. Replace the battery with a new CR2025 lithium battery. Use of any other battery may present a risk of fire or explosion.



Notes on the lithium battery

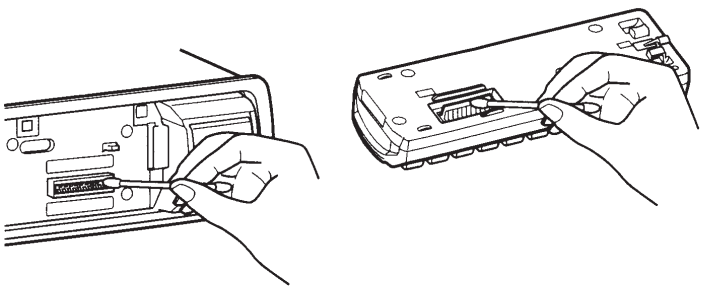
- Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.
- Wipe the battery with a dry cloth to assure a good contact.
- Be sure to observe the correct polarity when installing the battery.
- Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.

WARNING

Battery may explode if mistreated.
Do not recharge, disassemble, or dispose of in fire.

Cleaning the connectors

The unit may not function properly if the connectors between the unit and the front panel are not clean. In order to prevent this, detach the front panel (page 9) and clean the connectors with a cotton swab. Do not apply too much force. Otherwise, the connectors may be damaged.



Notes

- For safety, turn off the ignition before cleaning the connectors, and remove the key from the ignition switch.
- Never touch the connectors directly with your fingers or with any metal device.

Specifications

FOR THE CUSTOMERS IN THE USA. NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF QUEBEC.

POUR LES CLIENTS AUX ÉTATS-UNIS. NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE QUÉBEC.

AUDIO POWER SPECIFICATIONS

CEA2006 Standard
Power Output: 17 Watts RMS × 4 at 4 Ohms < 1% THD+N
SN Ratio: 80 dBA
(reference: 1 Watt into 4 Ohms)

Tuner section

FM

Tuning range:
87.5 – 108.0 MHz (at 50 kHz step)
87.5 – 108.0 MHz (at 100 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)
FM tuning step:
50 kHz/100 kHz/200 kHz switchable
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 80 dB (stereo)
Separation: 50 dB at 1 kHz
Frequency response: 20 – 15,000 Hz

AM

Tuning range:
531 – 1,602 kHz (at 9 kHz step)
530 – 1,710 kHz (at 10 kHz step)
AM tuning step:
9 kHz/10 kHz switchable
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz (at 9 kHz step)
9,115 kHz or 9,125 kHz/5 kHz (at 10 kHz step)
Sensitivity: 26 µV

USB Player section

Interface: USB (Full-speed)
Maximum current: 1 A
The maximum number of recognizable data:
Folders (albums): 128
Files (tracks) per folder: 512
Corresponding codec:
MP3 (.mp3) and WMA (.wma)

Wireless Communication

Communication System:
BLUETOOTH Standard version 2.1 + EDR
Output:
BLUETOOTH Standard Power Class 2 (Max. +4 dBm)
Maximum communication range:
Line of sight approx. 10 m (33 ft)*1

Frequency band:
2.4 GHz band (2.4000 – 2.4835 GHz)
Modulation method: FHSS
Compatible BLUETOOTH Profiles*2:
A2DP (Advanced Audio Distribution Profile) 1.2
AVRCP (Audio Video Remote Control Profile) 1.3
HFP (Handsfree Profile) 1.5
PBAP (Phone Book Access Profile)

*1 The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna (aerial)'s performance, operating system, software application, etc.

*2 BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

Power amplifier section

Output: Speaker outputs
Speaker impedance: 4 – 8 ohms
Maximum power output: 55 W × 4 (at 4 ohms)

General

Outputs:
Audio outputs terminal (front, rear)
Power antenna (aerial)/Power amplifier control terminal (REM OUT)
Inputs:
Remote controller input terminal
Antenna (aerial) input terminal
AUX input jack (stereo mini jack)
USB port
Power requirements: 12 V DC boat battery (negative ground (earth))
Dimensions:
Approx. 178 mm × 50 mm × 120 mm (7 1/8 in × 2 in × 4 7/8 in) (w/h/d)
Mounting dimensions:
Approx. 182 mm × 53 mm × 103 mm (7 1/4 in × 2 1/8 in × 4 1/8 in) (w/h/d)
Mass: Approx. 0.7 kg (1 lb 9 oz)
Package contents:
Main unit (1)
Remote commander (1): RM-X231
Parts for installation and connections (1 set)
Optional accessories/equipment*:
USB connection cable for iPod: RC-100IP
Marine remote commander: RM-X11M

* Accessories/equipment other than the marine remote commander RM-X11M are not waterproof. Do not subject them to water.

Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information.

Design and specifications are subject to change without notice.

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MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

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Troubleshooting

The following checklist will help you remedy problems you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures.
For details on using the fuse and removing the unit from the dashboard, refer to the installation/connections manual supplied with this unit.
If the problem is not solved, visit the support site on the back cover.

General

No power is being supplied to the unit.

→ If the unit is turned off and the display disappears, the unit cannot be operated with the remote commander.
— Turn on the unit.

No sound.

→ The position of the fader control [FADER] is not set for a 2-speaker system.

No beep sound.

→ An optional power amplifier is connected and you are not using the built-in amplifier.

The contents of the memory have been erased.

→ The power supply lead or battery has been disconnected or not connected properly.

Stored stations and correct time are erased.
The fuse has blown.
Makes a noise when the position of the ignition is switched.

→ The leads are not matched correctly with the boat's accessory power connector.

During playback or reception, the demonstration mode starts.

→ If no operation is performed for 5 minutes with [DEMO-ON] set, the demonstration mode starts.
  – Set [DEMO-OFF] (page 21).

The display disappears from/does not appear in the display window.

→ The dimmer is set to [DIM-ON] (page 21).
→ The display disappears if you press and hold OFF.
  – Press OFF on the unit until the display appears.
→ The connectors are dirty (page 25).

Radio reception

Stations cannot be received.
The sound is hampered by noises.

→ The connection is not correct.
  – If your boat has built-in radio antenna (aerial) in the rear/side glass, connect an REM OUT lead (blue/white striped) or accessory power supply lead (red) to the power supply lead of a boat's antenna (aerial) booster.
  – Check the connection of the boat antenna (aerial).
  – If the auto antenna (aerial) will not extend, check the connection of the power antenna (aerial) control lead.
→ The tuning step setting has been erased.
  – Set the tuning step again (page 10).

Preset tuning is not possible.

→ The broadcast signal is too weak.

RDS

PTY displays [- - - - - - - -].

→ The current station is not an RDS station.
→ RDS data has not been received.
→ The station does not specify the program type.

USB playback

You cannot play back items via a USB hub.

→ This unit cannot recognize USB devices via a USB hub.

A USB device takes longer to play back.

→ The USB device contains files with a complicated tree structure.

The sound is intermittent.

→ The sound may be intermittent at a high-bit-rate of more than 320 kbps.

BLUETOOTH function

The connecting device cannot detect this unit.

→ Before the pairing is made, set this unit to pairing standby mode.
→ While connected to a BLUETOOTH device, this unit cannot be detected from another device.
  – Disconnect the current connection and search for this unit from another device.
→ When the device pairing is made, set the BLUETOOTH signal output to on (page 11).

Connection is not possible.

→ The connection is controlled from one side (this unit or BLUETOOTH device), but not both.
  – Connect to this unit from a BLUETOOTH device or vice versa.

The name of the detected device does not appear.

→ Depending on the status of the other device, it may not be possible to obtain the name.

No ringtone.

→ Adjust the volume by rotating the control dial while receiving a call.

→ Depending on the connecting device, the ringtone may not be sent properly.
  – Set [RINGTONE] to [1] (page 22).

→ The front speakers are not connected to the unit.
  – Connect the front speakers to the unit. The ringtone is output only from the front speakers.

The talker's voice cannot be heard.

→ The front speakers are not connected to the unit.
  – Connect the front speakers to the unit. The talker's voice is output only from the front speakers.

A call partner says that the volume is too low or high.

→ Adjust the volume accordingly using mic gain adjustment (page 20).

Echo or noise occurs in phone call conversations.

→ Lower the volume.

→ Set EC/NC Mode to [EC/NC-1] or [EC/NC-2] (page 20).

→ If the ambient noise other than the phone call sound is loud, try reducing this noise.
E.g.: If a window is open and noise, etc., is loud, shut the window. If an air conditioner is loud, lower the air conditioner.

→ Switch the destination device for call transfer to your cellular phone, then use the cellular phone (page 20).

The phone is not connected.

→ When BLUETOOTH audio is played, the phone is not connected even if you press (handsfree).
  – Connect from the phone.

The phone sound quality is poor.

→ Phone sound quality depends on reception conditions of cellular phone.
  – Move your boat to a place where you can enhance the cellular phone's signal if the reception is poor.

The volume of the connected audio device is low (high).

→ Volume level will differ depending on the audio device.
  – Adjust the volume of the connected audio device or this unit.

The sound skips during playback of a BLUETOOTH audio device.

→ Reduce the distance between the unit and the BLUETOOTH audio device.

→ If the BLUETOOTH audio device is stored in a case which interrupts the signal, remove the audio device from the case during use.

→ Several BLUETOOTH devices or other devices which emit radio waves are in use nearby.
  – Turn off the other devices.
  – Increase the distance from the other devices.

→ The playback sound stops momentarily when the connection between this unit and the cellular phone is being made. This is not a malfunction.

The connected BLUETOOTH audio device cannot be controlled.

→ Check that the connected BLUETOOTH audio device supports AVRCP.

Some functions do not work.

→ Check if the connecting device supports the functions in question.

A call is answered unintentionally.

→ The connecting phone is set to answer a call automatically.

Pairing failed due to time out.

→ Depending on the connecting device, the time limit for pairing may be short.
  – Try completing the pairing within the time.

BLUETOOTH function cannot operate.

→ Turn off the unit by pressing OFF for more than 2 seconds, then turn the unit on again.

No sound is output from the boat speakers during handsfree call.

→ If the sound is output from the cellular phone, set the cellular phone to output the sound from the boat speakers.

Error displays/Messages

CHECKING

→ The unit is confirming the connection of a USB device.
  – Wait until confirming the connection is finished.

ERROR

→ There may be an internal malfunction.
  – Press OFF for more than 2 seconds (the display disappears), then press OFF again.

ERROR-99

→ There may be an internal malfunction.
  – Press OFF for more than 2 seconds (the display disappears), then press OFF again. If the error indication remains on in the display, consult your nearest Sony dealer.

NO MUSIC

→ The USB device does not contain a music file.
  – Connect a USB device with a music file in it.

NO NAME

→ An album/artist/track name is not written in the USB.

NO SUPRT (not supported)

→ USB hub is not supported on this unit.

→ The connected USB device is not supported. For details on the compatibility of your USB device, visit the support site on the back cover.

NO USB

→ USB is selected as source without a USB device connected. A USB device or a USB cable has been disconnected during playback.
  – Be sure to connect a USB device and USB cable.

OVERLOAD

→ USB device is overloaded.
  – Disconnect the USB device, then change the source by pressing OFF.
  – Indicates that the USB device is out of order, or an unsupported device is connected.

READ

→ The unit is reading all track and album information on the USB device.
  – Wait until reading is complete and playback starts automatically. Depending on the USB device structure, it may take more than a minute.

STOP

→ When repeat play is not set, playback of the last track in album finished.
The music application in the iPod/iPhone is terminated.
— Press PAUSE to start playback again.

For BLUETOOTH function:

BT BUSY (BLUETOOTH busy)

→ The phonebook and the call history of the cellular phone are not accessible from this unit.
— Wait for a while, and then try again.

ERROR

→ BT Initialize failed.

→ Phonebook access failed.

→ Phonebook content was changed while accessing the cellular phone.
— Access the phonebook in the cellular phone again.

MEM FAIL (memory failure)

→ This unit failed to store the contact in the preset dial.
— Make sure that the number you intend to store is correct (page 19).

NO BTA (no BLUETOOTH audio)

→ BLUETOOTH audio source is selected without a BLUETOOTH audio device connected. A BLUETOOTH audio device has been disconnected during a call.
— Be sure to connect a BLUETOOTH audio device.

NO BTP (no BLUETOOTH phone)

→ BLUETOOTH phone source is selected without a cellular phone connected. A cellular phone has been disconnected during a call.
— Be sure to connect a cellular phone.

NO INFO (no information)

→ Network name and cellular phone name are not received with cellular phone connected.

NO SUPRT (not supported)

→ The BLUETOOTH connected cellular phone does not support PBAP (Phone Book Access Profile). In this case, this unit cannot access to the cellular phone's phonebook or call history.

→ The cellular phone is not supported by this unit, although the cellular phone supports PBAP (Phone Book Access Profile).
— Check if the cellular phone is connected correctly. For details on the compatibility of your cellular phone, visit the support site.

P (preset number) **EMPTY**

→ The preset dial is empty.

UNKNOWN

→ Name or phone number cannot be displayed when browsing phonebook or call history.

WITHHELD

→ Phone number is hidden by caller.

If these solutions do not help improve the situation, consult your nearest Sony dealer.

Support site

If you have any questions or for the latest support information on this product, please visit the web site below:

Site d'assistance

Si vous avez des questions ou si vous souhaitez consulter les toutes dernières informations techniques sur ce produit, rendez-vous sur le site Web suivant :

Sitio Web de soporte técnico en línea

Para resolver cualquier duda u obtener la información más reciente sobre el soporte técnico de este producto, visite el siguiente sitio Web:

http://esupport.sony.com
http://www.sony.com/caraudio

If you have any questions/problems regarding this product, try the following:

1 **Read Troubleshooting in these Operating Instructions.**

2 **Please contact (U.S.A. only);**

Call **1-800-222-7669**
URL **http://www.SONY.com**

http://www.sony.net/

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* 4 4 8 4 5 9 3 2 1 * (1)

SONY

4-484-594-**11**(1)

FM/AM Digital Media Player

Installation/Connections GB

Installation/Connexions FR

Instalación/Conexiones ES

* 4 4 8 4 5 9 4 1 1 * (1)

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English

Cautions

Be sure to install this unit in the dashboard of the boat as the rear side of the unit becomes hot during use.

- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the boat's ignition off to avoid short circuits.
- Connect the **yellow** and **red** power supply leads only after all other leads have been connected.
- **Run all ground (earth) leads to a common ground (earth) point.**
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Under the environment of potential water splash, Sony highly recommends to protect the unit with Waterproof Car Stereo Cover (not supplied). While an iPod or USB device is connected, the Waterproof Car Stereo Cover cannot be fully closed. Avoid splashing water on the unit.

Notes on the power supply lead (yellow)

- When connecting this unit in combination with other stereo components, the connected boat circuit's rating must be higher than the sum of each component's fuse.
- When no boat circuits are rated high enough, connect the unit directly to the battery.

Parts list (1)

- The numbers in the list are keyed to those in the instructions.
- The bracket ① and the protection collar ④ are attached to the unit before shipping. Before mounting the unit, use the release keys ③ to remove the bracket ① from the unit. For details, see "Removing the protection collar and the bracket (4)" on the reverse side of the sheet.
- **Keep the release keys ③ for future use as they are also necessary if you remove the unit from your boat.**

Caution

Handle the bracket ① carefully to avoid injuring your fingers.

Connection example (2)

Subwoofer Easy Connection (2-C)

You can use a subwoofer without a power amplifier when it is connected to a rear speaker cord.

* Do not connect a speaker in this connection.

Notes

- Be sure to connect the ground (earth) lead before connecting the amplifier (2-A).
- The alarm will only sound if the built-in amplifier is used (2-A).
- Be sure to connect a 4 - 8 ohm subwoofer. Do not connect a speaker to the other rear speaker cord (2-C).

Connection diagram (3)

❶ To battery or distribution block ground

First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

❷ To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster

Notes

- It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).
- When your boat has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."

To AMP REMOTE IN of an optional power amplifier

This connection is only for amplifiers and a power antenna (aerial). Connecting any other system may damage the unit.

❸ To the +12 V power terminal which is energized in the accessory position of the ignition switch

Notes

- If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground (earth) lead to the battery or distribution block ground first.
- When your boat has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."

❹ To the +12 V power terminal which is energized at all times

Be sure to connect the black ground (earth) lead to the battery or distribution block ground first.

Notes on the control and power supply leads

- REM OUT lead (blue/white striped) supplies +12 V DC when you turn on the unit.
- When your boat has built-in FM/AM antenna (aerial) in the rear/side glass, connect REM OUT lead (blue/white striped) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.
- A power antenna (aerial) without a relay box cannot be used with this unit.

Memory hold connection

When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

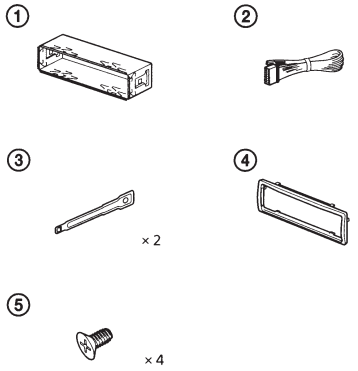
Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the boat chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your boat if the unit shares a common negative (–) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

Note on connection

If speaker and amplifier are not connected correctly, "ERROR" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

1



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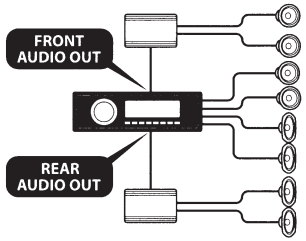

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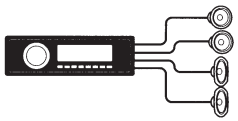

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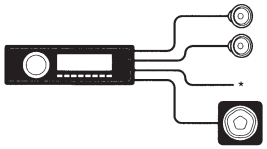


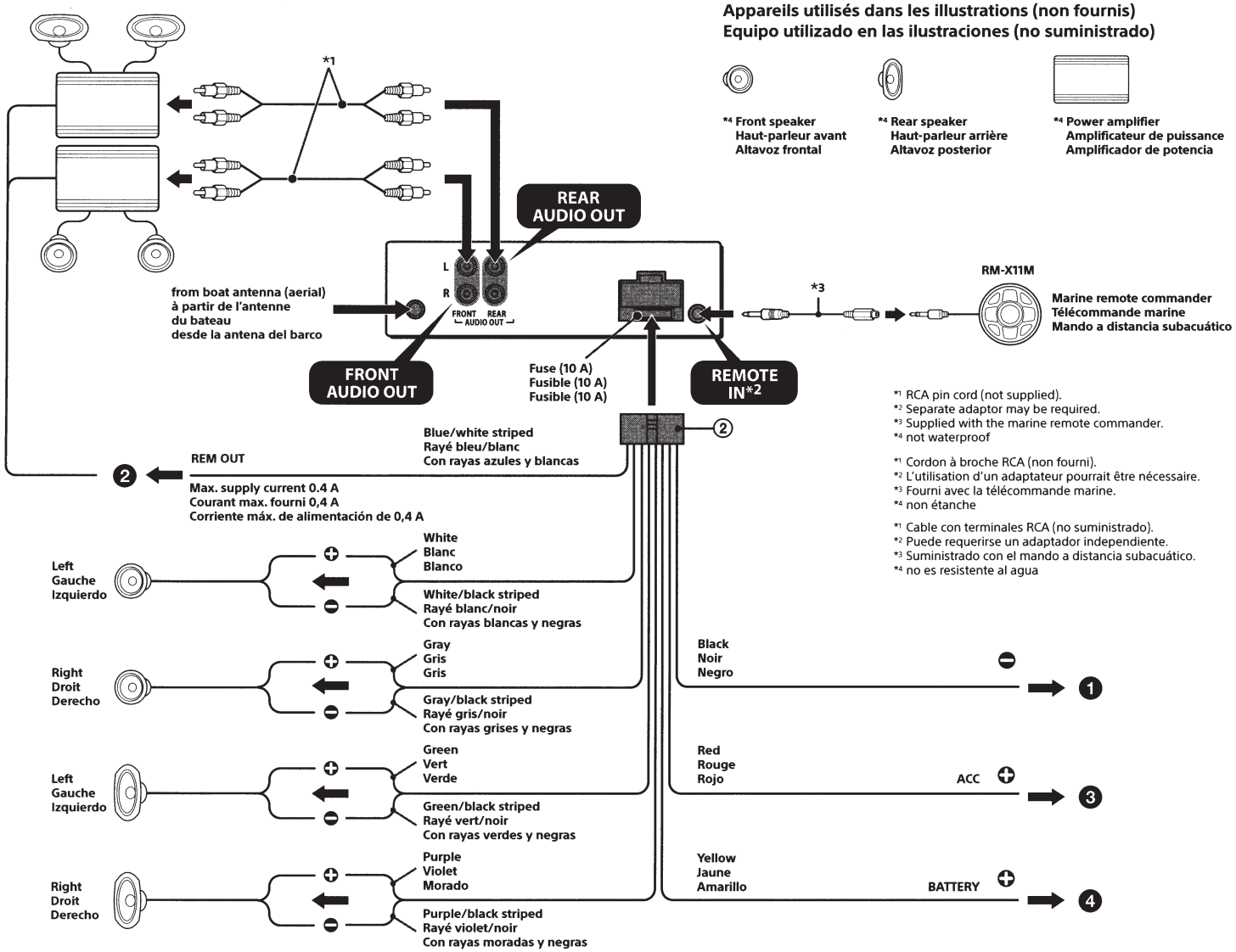
3

Equipment used in illustrations (not supplied)
Appareils utilisés dans les illustrations (non fournis)
Equipo utilizado en las ilustraciones (no suministrado)

*4 Front speaker
Haut-parleur avant
Altavoz frontal

*4 Rear speaker
Haut-parleur arrière
Altavoz posterior

*4 Power amplifier
Amplificateur de puissance
Amplificador de potencia



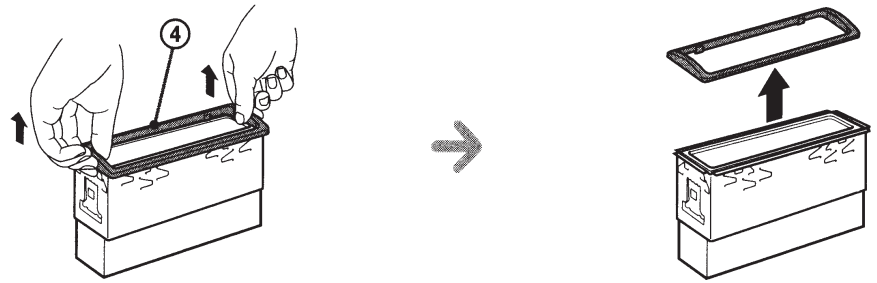
*1 RCA pin cord (not supplied).
*2 Separate adaptor may be required.
*3 Supplied with the marine remote commander.
*4 not waterproof

*1 Cordon à broche RCA (non fourni).
*2 L'utilisation d'un adaptateur pourrait être nécessaire.
*3 Fourni avec la télécommande marine.
*4 non étanche

*1 Cable con terminales RCA (no suministrado).
*2 Puede requerirse un adaptador independiente.
*3 Suministrado con el mando a distancia subacuático.
*4 no es resistente al agua

4

1



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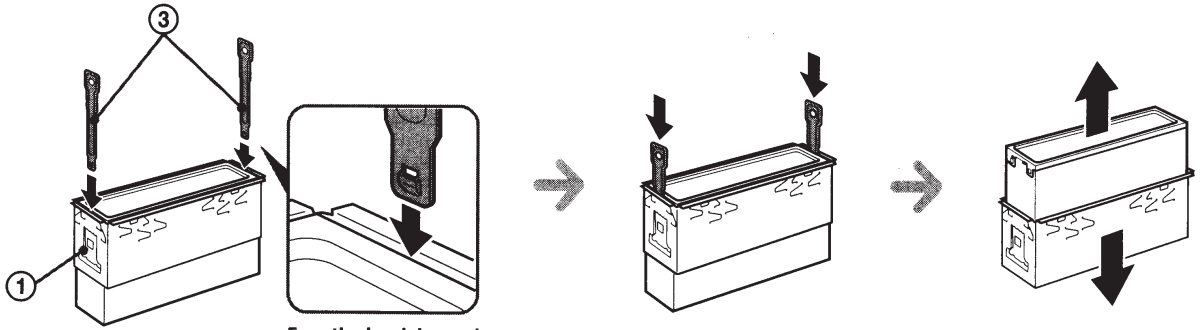
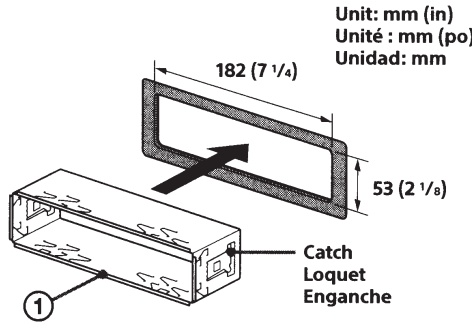


Face the hook inwards.
Tournez le crochet vers l'intérieur.
Gire el gancho hacia la parte interior

5

1



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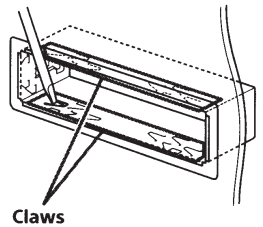
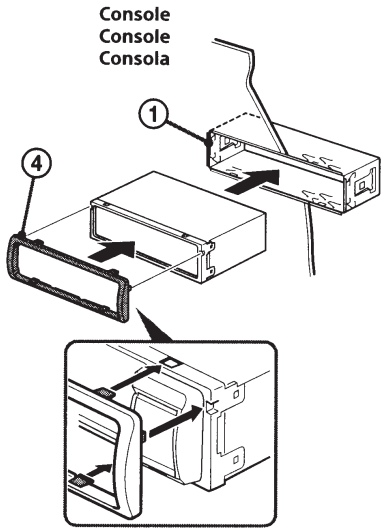


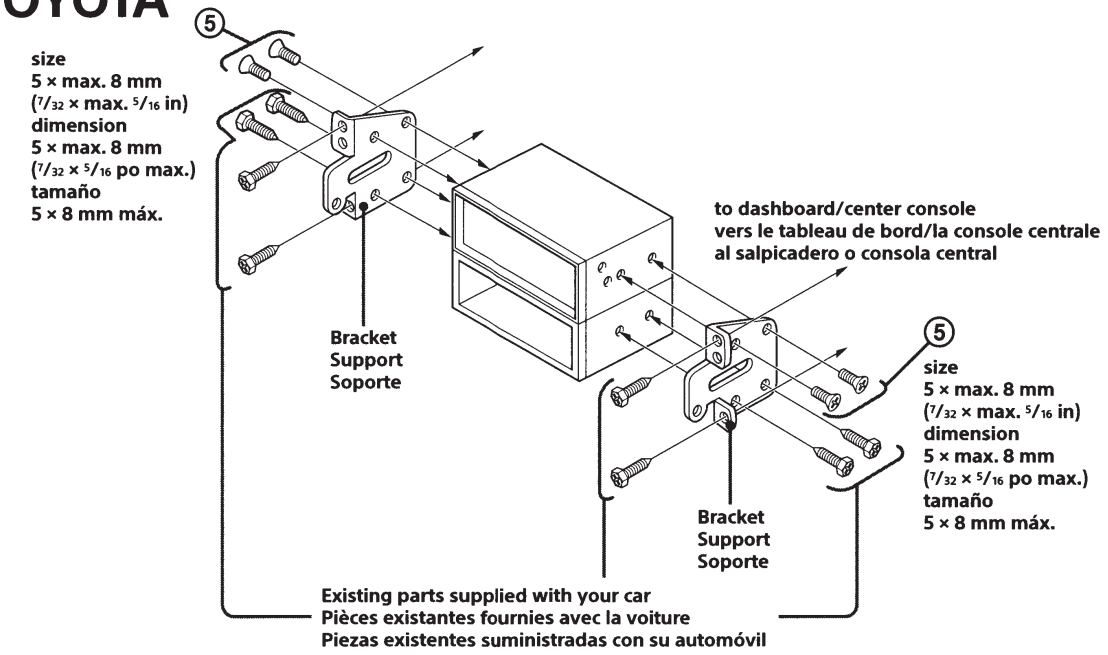
Claws
Griffes
Uñas

3

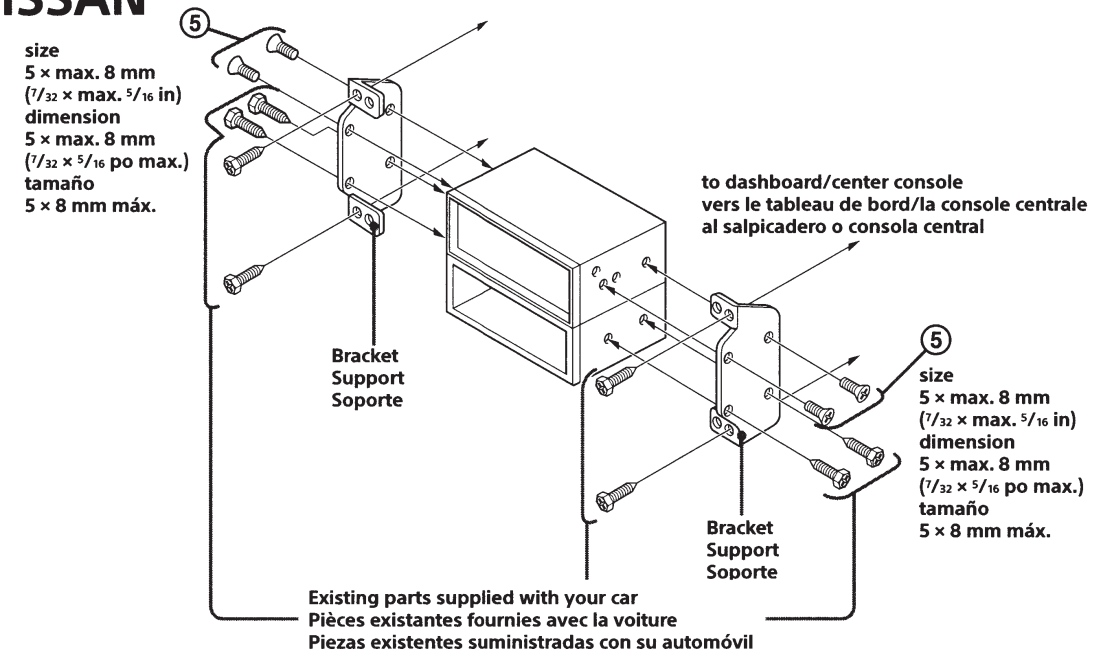


6

A TOYOTA



B NISSAN



7

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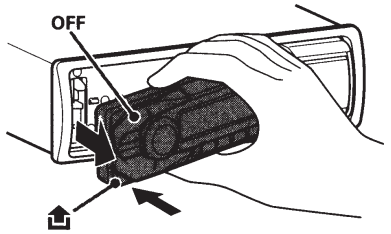

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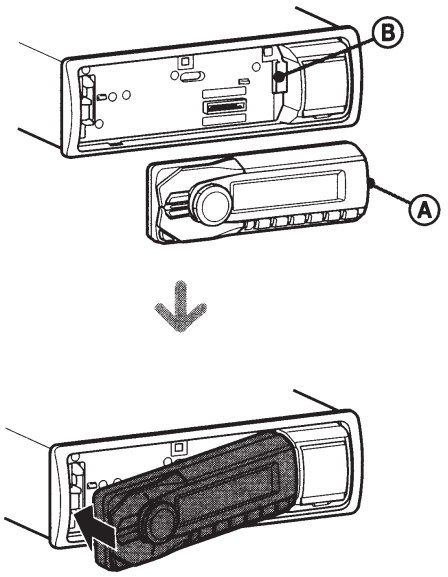

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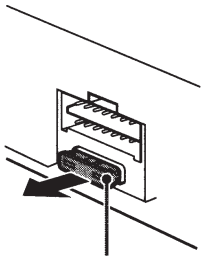

English

Precautions

- Choose the installation location carefully so that the unit will not interfere with normal boating or car driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperatures, such as in direct sunlight or near heater ducts.
- Select carefully the mounting location to avoid internal damage by water entering the unit. Areas subject to water splashes should be avoided. The Waterproof Car Stereo Cover (not supplied) is recommended.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Removing the protection collar and the bracket (4)

Before installing the unit, remove the protection collar ④ and the bracket ① from the unit.

1 Remove the protection collar ④.
Pinch both edges of the protection collar ④, then pull it out.

2 Remove the bracket ①.
❶ Insert both release keys ③ together between the unit and the bracket ① until they click.
❷ Pull down the bracket ①, then pull up the unit to separate.

Mounting example (5)

Installation in the cutout hole on boat

Notes
- Before installing, make sure that the catches on both sides of the bracket ① are bent inwards 2 mm (3/32 in). If the catches are straight or bent outwards, the unit will not be installed securely and may spring out (5-1).
- Bend these claws outward for a tight fit, if necessary (5-2).
- Make sure that the 4 catches on the protection collar ④ are properly engaged in the slots of the unit (5-3).

Mounting the unit in a Japanese car (6)

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

Note
To prevent malfunction, install only with the supplied screws ⑤.

How to detach and attach the front panel (7)

Before installing the unit, detach the front panel.

7-A To detach

Before detaching the front panel, be sure to press and hold OFF. Press ⏏ and pull it off towards you.

7-B To attach

Engage part Ⓐ of the front panel with part Ⓑ of the unit, as illustrated, and push the left side into position until it clicks.

Warning if your boat's ignition has no ACC position

Be sure to set the Auto Off function. For details, see the supplied Operating Instructions.
The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain.
If you do not set the Auto Off function, press and hold OFF until the display disappears each time you turn the ignition off.

Fuse replacement (8)

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. 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. In such a case, consult your nearest Sony dealer.

Notes on the tuning step

- For how to set the tuning step, see the supplied Operating Instructions.
- If replacing the boat battery or changing the connections, the tuning step setting will be erased.

SONY

Garantie d'un an protégeant les consommateurs

Sony du Canada ltée (Sony), sous réserve des modalités et conditions indiquées aux présentes, garantit le présent produit contre tout défaut de fabrication ou toute défaillance des matériaux entrant dans sa fabrication pour la période de garantie spécifiée. Si un défaut de fabrication ou une défaillance des matériaux survient pendant la période de garantie spécifiée, Sony veillera à réparer le produit en y effectuant tous les remplacements de pièces nécessaires par des pièces neuves ou remises à neuf et ce, sans frais quant aux pièces ou à la main-d'œuvre.

La période de garantie est la suivante :
Main-d'œuvre et pièces : UN an à compter de la date d'achat originelle au détail.

Conditions :

Modifications, réparations, abus non autorisés, etc. :
La présente garantie limitée est nulle si : (i) l'unité a été altérée, modifiée ou installée aux fins d'usage commercial, ou réparée ou entretenue par une personne autre qu'un centre de réparation autorisé par Sony afin d'effectuer de tels services. (ii) le numéro de série de l'unité a été altéré ou retiré, ou (iii) l'unité a subi un accident, un mauvais usage, un abus ou a été utilisée pour un usage contraire aux directives du mode d'emploi. L'opinion de Sony à cet effet est sans appel.

Usage commercial ou location :
Ce produit n'est pas conçu pour usage commercial ou location. Advenant que cette unité soit utilisée à des fins commerciales ou comme unité en location, la période de garantie limitée pour les pièces et la main-d'œuvre est réduite à 90 jours après la date d'achat originelle. L'opinion de Sony à cet effet est sans appel.

Exclusions :
La présente garantie limitée exclut les armoires, accessoires ou piles brisés ou endommagés; les antennes et stylets exposés, ou la défaillance de pièces découlant de leur usure normale. La présente garantie limitée exclut l'entretien régulier des produits, tels que le nettoyage, la lubrification ou les vérifications.

La présente garantie limitée ne couvre que l'équipement fourni avec le produit. Elle ne couvre aucune assistance technique quant à l'usage d'équipement ou de logiciel et ne couvre aucun logiciel, fourni ou non avec le produit. De tels logiciel sont fournis « TELS QUELS », sauf aux termes d'une garantie limité de logiciel comprise dans l'emballage. Veuillez consulter les ententes d'usager comprises avec le produit pour connaître vos droits et obligations relativement aux logiciels.

La présente garantie n'est valide qu'au Canada.

Livraison :
L'unité doit être livrée en personne à l'un des centres de réparation Sony du Canada, ou expédiée, dans son emballage d'origine ou un emballage équivalent accordant un niveau de protection équivalent, ainsi que des directives indiquant l'emplacement au Canada où l'unité peut être retournée. Si l'unité est expédiée à un centre de réparation, l'unité réparée sera retournée au client port payé. Tous les accessoires compris avec l'unité doivent être énumérés individuellement sur le bordereau d'expédition aux fins de documentation d'expédition. Les accessoires défectueux doivent être expédiés à Sony à titre d'article distinct à réparer. Sony n'est pas responsable des pertes ou dommages des articles en transit expédiés aux centres de réparation. Toute pièce remplacée aux termes de la présente garantie limitée devient la propriété de Sony. **Vous êtes responsable de faire une copie de sauvegarde de toutes données, logiciels ou autres que vous auriez pu stocker ou conserver sur votre unité. Il est fort probable que des données, logiciels ou autres seront perdus ou reformatés pendant la réparation, et Sony n'est pas responsable de tels dommages ou pertes.**

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La présente garantie limitée s'applique au produit à compter de la date d'achat originelle au détail. Par conséquent, le propriétaire doit présenter une preuve d'achat originelle au détail.

Produit visés par la présente garantie :
La présente garantie limitée s'applique aux produits Sony suivants, et peut aussi s'appliquer à d'autres produits s'ils font partie de l'emballage d'origine du produit :

Accessoires audio / vidéo
Produits audio / vidéo pour l'automobile
Caméras vidéo et accessoires connexes
Caméras photos numériques de type Cyber-shot® et accessoires connexes
Radios-réveil munis d'un lecteur CD
Lecteurs numériques de médias/Lecteurs numériques de musique
Imprimantes / scanners de photos numérisées
Enregistreurs numériques de la parole
Enregistreurs numériques à circuits intégrés
Systèmes audio pour la maison
Systèmes de cinéma-maison
Lecteurs et enregistreurs vidéo pour la maison
Produits de navigation mobile
Magnétophones à microcassettes
Baladeurs Net MD/H-MMD
Baladeurs réseau
Lecteurs CD portables / munis d'un récepteur radio
Lecteurs DVD portables
Radios portables de type « casque d'écoute stéréo »
Enregistreurs/lecteurs portables à MiniDisques
Radios portables et lecteurs CD / avec lecteur cassettes
Radios portables
Récepteurs-enregistreurs radiophoniques combinés
Magnétoscopes à cassettes et accessoires connexes
Baladeurs vidéo

SAUF DANS LA MESURE OÙ LA LOI APPLICABLE L'INTERDIT, TOUTES LES AUTRES GARANTIES ET CONDITIONS, EXPRESSES OU IMPLICITES, RELEVANT OU NON D'UNE LOI, D'UN ACTE LÉGISLATIF, D'HABITUDES COMMERCIALES ÉTABLIES OU D'USAGES DU COMMERCE, Y COMPRIS, NOTAMMENT, TOUTE GARANTIE IMPLICITE DE QUALITÉ MARCHANDE OU DE L'ADAPTABILITÉ À UNE FIN PARTICULIÈRE, SONT DÉSAVOUÉES. SONY NE SAURAIT EN AUCUN CAS ÊTRE RESPONSABLE D'UN MONTANT SUPÉRIEUR AU PRIX RÉEL D'ACHAT DU PRODUIT; ET SONY NE SAURAIT EN AUCUN CAS ÊTRE RESPONSABLE DE DOMMAGES SPÉCIAUX, ACCESSOIRES OU CONSÉCUTIFS SUBIS RELATIVEMENT AU PRODUIT. SONY N'ASSUME NI N'AUTORISE AUCUN REPRÉSENTANT OU QUICONQUE À ASSUMER EN SON NOM UNE OBLIGATION OU RESPONSABILITÉ AUTRE QUE CELLES QUI SONT EXPRESSÉMENT DÉCRITES AUX PRÉSENTES. L'EXCLUSION DE GARANTIES ET CONDITIONS IMPLICITES N'EST PAS AUTORISÉE DANS CERTAINS TERRITOIRES.

Enregistrement du produit :
Merci d'avoir choisi un produit Sony. Chez Sony, nous nous efforçons de créer des produits de la plus haute qualité afin de renforcer votre expérience et votre satisfaction. Afin d'assurer le meilleur soutien qui soit à votre produit, nous vous demandons de remplir une fiche d'enregistrement de produit sur le site www.fr.SonyStyle.ca/enregistrement dans les quatre-vingt-dix (90) jours suivant la date d'achat.

Pour obtenir de l'aide concernant le service ou obtenir des renseignements sur le produit ou concernant l'enregistrement du produit, veuillez appeler le 1-877-899-7669. Pour obtenir des renseignements concernant la garantie prolongée Sony Care, veuillez appeler le 1-800-773-9667.

Pour le support technique et les mises à jour en ligne en tout temps, vous pouvez visiter le
www.fr.sony.ca/sonyca/view/french/support_electronics.shtml,
ou appeler le Centre d'information à la clientèle Sony au 1-877-899-7669.

SONY

4-447-347-51

Consumer 1 Year Warranty

Sony of Canada Ltd. ("Sony") hereby warrants, subject to the terms and conditions herein set forth, this product against defects in material and workmanship during the specified warranty period. In the event of a defect of material or workmanship during the specified warranty period, Sony will repair the same, effecting all necessary parts replacements with either new or refurbished parts, without charge for either parts or labour.

The warranty period is as follows:
Labour and Parts: ONE year from the date of original purchase at retail.

Conditions:

Unauthorized Modification, Repair, Abuse, Etc.:
This limited warranty is void if: (i) the unit has been previously altered, modified, installed or mounted for commercial use, or repaired or serviced by anyone other than the service facilities authorized by Sony to render such services, (ii) the serial number on the unit has been altered or removed, or (iii) the unit has been subject to accident, misuse, abuse or operated contrary to the instructions contained in the Owner's Manual. The opinion of Sony with respect to this matter shall be final.

Commercial Use or Rental:
This product is not intended for commercial use or rental. Should this unit be used at any time for commercial purposes or as a rental unit, the limited warranty period for parts and labour shall be 90 days from the date of original purchase at retail. The opinion of Sony with respect to this matter shall be final.

Exclusions:
This limited warranty does not extend to broken or damaged cabinets, accessories, batteries, exposed antennas and styluses, or to parts wearing out due to normal wear and tear. This limited warranty does not cover regular product maintenance such as cleaning, lubrication or check-ups.

This limited warranty covers only the hardware components packaged with the product. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the product. Any such software is provided "AS IS" unless expressly provided for in any enclosed software limited warranty. Please refer to the End User License Agreements included with the product for your rights and obligations with respect to the software.

This limited warranty is valid only in Canada.

Delivery:
The unit must be delivered in person to one of the nearest Sony service facilities in Canada, or shipped, freight prepaid, in either its original package or similar package affording an equal degree of protection and with instructions indicating a location within Canada to which the unit may be returned. If shipped to the service facility, the repaired unit will be returned to customer freight prepaid. All accessories that are enclosed with the unit must be listed individually on the packing slip for the shipping documentation. Defective accessories should be shipped to Sony as a separate repair item. Sony shall have no liability whatsoever for loss or damage in transit of items shipped to service facilities. Any parts replaced under this limited warranty will become the property of Sony. **It is your responsibility to back up any data, software or other materials you may have stored or preserved on your unit. It is likely that such data, software, or other materials will be lost or reformatted during service and Sony will not be responsible for any such damage or loss.**

Proof of Purchase:
This limited warranty applies to the product from the original date of purchase at retail. The owner must furnish proof of original purchase at retail.

Subject Products:
This limited warranty is applicable to the following Sony Products, and may also be applicable to other Sony products if enclosed in the product's original packaging:

Audio/Video Accessories
Car Audio/Video Products
Camcorders and related accessories
Cyber-shot® Digital still Camera and related accessories
Clock Radio/with CD Players
Digital Media Players/ Digital Music Players
Digital Photo Printers/Scanners
Digital Voice Recorder
IC Chip Recorders
Home Audio Systems
Home Theatre System
Home Video Player and Recorders
Mobile Navigation Products
Microcassette recorder
Net MD/H-MMD Walkman
Network Walkman
Portable CD Players/ with Radio
Portable DVD Players
Portable Headset Stereo Radios
Portable MiniDisc Recorder/Players
Portable Radio CD Players /with Cassette
Portable Radio
Radio Cassette Combinations
Video Cassette Recorders and related accessories
Video Walkman

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