



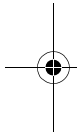
SONY®

5-006-641-11(1)

FM/AM Bluetooth® Marine Audio

Operating Instructions GB

Mode d'emploi FR



Owner's Record

The model and serial numbers are located on the bottom of the unit.
Record these numbers in the spaces provided below.
Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. DSX-M80

Serial No. _____

To cancel the demonstration (DEMO) display, see page 9.

To switch the FM/AM tuning step, see page 8.
For the connection/installation, see page 14.

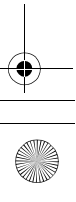
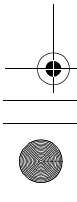
Pour annuler l'affichage de démonstration (DEMO), reportez-vous à la page XX.

Pour commuter l'intervalle de syntonisation FM/AM, reportez-vous à la page XX.




Pour le raccordement/l'installation, reportez-vous à la page XX.



* 5 0 0 6 6 4 1 1 1 * (1)



DSX-M80



For safety, be sure to install this unit in the dashboard of the boat as the left side of the unit becomes hot during use. For details, see "Connection/Installation" (page 14).

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 FCC Rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(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.

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

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules as this equipment has very low levels of RF energy.

If you have any questions about this product:

Visit: <https://www.sony.com/electronics/support>

Contact: Sony Customer Information Service Center at 1-800-222-7669

Write: Sony Customer Information Service Center 12451 Gateway Blvd., Fort Myers, FL 33913

Supplier's Declaration of Conformity

Trade Name: SONY

Model: DSX-M80

Responsible Party: Sony Electronics Inc.

Address: 16535 Via Esprillo, San Diego, CA 92127 U.S.A.

Telephone Number: [858-942-2230](tel:858-942-2230)

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.

For the State of California, USA only

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

Made in Thailand

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

The validity of the CE marking is restricted to only those countries where it is legally enforced, mainly in the countries EEA (European Economic Area) and Switzerland.



Hereby, Sony Corporation declares that this equipment is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<http://www.compliance.sony.de/>

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

This product has been manufactured by or on behalf of Sony Corporation.

EU Importer: Sony Europe B.V.

Inquiries to the EU Importer or related to product compliance in Europe should be sent to the manufacturer's authorized representative, Sony Belgium, bijkantoor van Sony Europe B.V., Da Vincilaan 7-D1, 1930 Zaventem, Belgium.

3GB



Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other 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 symbol for lead (Pb) is added if the battery contains more than 0.004% lead. By ensuring that these products and batteries are disposed of correctly, you will help to prevent potentially negative consequences for the environment and human health which could 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 appropriate 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 appropriate 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.



WARNING: Do not ingest battery, Chemical Burn Hazard.

The remote commander contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Note on the lithium battery

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

CAUTION

The following frequency 1,606.5 – 1,710 kHz range is not allocated to sound broadcasting in the European Common Allocations table and cannot be used in Europe.

Warning if your boat's ignition has no ACC position

Be sure to set the AUTO OFF function. The unit will shut off completely and automatically in the set time after the unit is turned off and the clock is displayed (i.e. press and hold OFF for 1 second), 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.

Disclaimer regarding services offered by third parties

Services offered by third parties may be changed, suspended, or terminated without prior notice. Sony does not bear any responsibility in these sorts of situations.



Important notice

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.

Dear customer, this product includes a radio transmitter.

According to UNECE Regulation no. 10, vessel manufacturers may impose specific conditions for installation of radio transmitters into boats. Please check your boat's operation manual or contact the manufacturer or your boat dealer, before you install this product.



Emergency calls

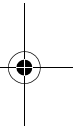
This BLUETOOTH boat handsfree and the electronic device connected to the handsfree operate using radio signals, cellular, and landline networks as well as user-programmed function, which cannot guarantee connection under all conditions. Therefore do not rely solely upon any electronic device for essential communications (such as medical emergencies).

On BLUETOOTH communication

- 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

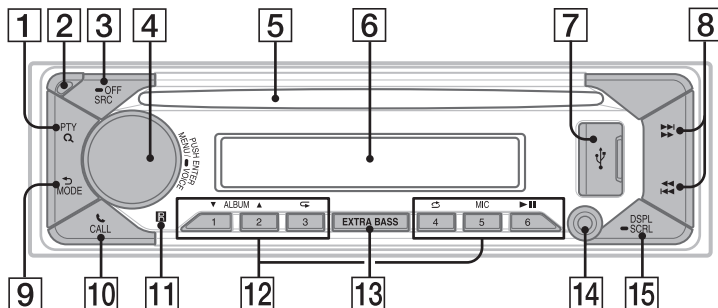
- This unit supports security capabilities that comply with the BLUETOOTH standard to provide a secure connection when the BLUETOOTH wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using BLUETOOTH wireless technology.
- We do not take any responsibility for the leakage of information during BLUETOOTH communication.

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



Guide to Parts and Controls

Main unit



Front panel removed (inner panel)



1 PTY (program type)

Select PTY in RDS.

Q (browse)

Enter the browse mode during playback.
(Not available when a USB device in Android™ mode or iPod is connected.)

2 Front panel release button

3 SRC (source)

Turn on the power.
Change the source.

OFF

Press and hold for 1 second to turn the source off and display the clock.
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, operation by the remote commander is not available.

4 Control dial

Rotate to adjust the volume.

PUSH ENTER

Enter the selected item.
Press SRC, rotate then press to change the source (timeout in 2 seconds).

MENU

Open the setup menu.

VOICE

Press and hold for more than 2 seconds to activate voice dial, voice recognition (Android smartphone only), or the Siri function (iPhone only).

5 Disc slot

6 Display window

7 USB port

8 SEEK +/-

Tune in radio stations automatically.
Press and hold to tune manually.

PREV/NEXT

FAST-REVERSE/FAST-FORWARD

9 (back)

Return to the previous display.

MODE

10 CALL

Enter the call menu. Receive/end a call.
Press and hold for more than 2 seconds to switch the BLUETOOTH signal.

11 Receptor for the remote commander

12 Number buttons (1 to 6)

Receive stored radio stations. Press and hold to store stations.

ALBUM ▼/▲

Skip an album for audio device. Press and hold to skip albums continuously.

(Not available when a USB device in Android mode or iPod is connected.)

Press ▲ to thumbs up, or ▼ to thumbs down in Pandora®.

↺ (repeat)

(Not available when a USB device in Android mode is connected.)

↻ (shuffle)

(Not available when a USB device in Android mode is connected.)

MIC

▶|| (play/pause)

13 EXTRA BASS

Reinforces bass sound in synchronization with the volume level. Press to change the EXTRA BASS setting: [1], [2], [OFF].

14 AUX input jack

15 DSPL (display)

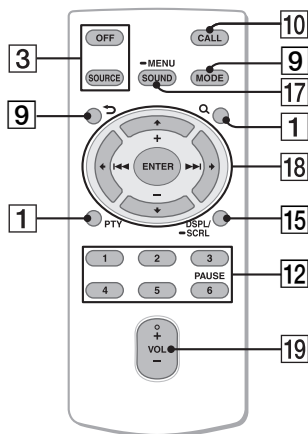
Press to change display items.

⇐ SCRL (scroll)

Press and hold to scroll a display item.

16 RESET (inner panel)

RM-X232 Remote commander



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

17 SOUND

Open the SOUND menu directly.

⇐ MENU

Press and hold to open the setup menu.

18 ⇐/↑/↓/⇒

Select a setup item, etc.

ENTER

Enter the selected item.

Press and hold for more than 2 seconds to establish or terminate the "Sony | Music Center" function.

⏮/⏭ (prev/next)

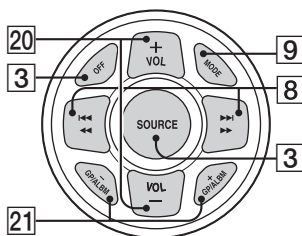
+/- (album +/-)

19 VOL (volume) +/-

Remove the insulation film before use.



RM-X11M Marine remote commander (not supplied)



20 VOL (volume) +/-

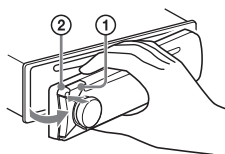
21 GP (group)/ALBM (album) +/-
Receive stored stations.

Getting Started

Detaching the Front Panel

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

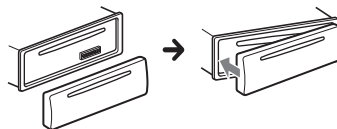
- 1 Press and hold OFF ① until the unit turns off, press the front panel release button ②, then pull the panel towards you to remove.



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.

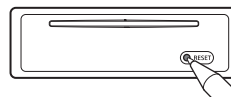
Attaching the front panel



Resetting the Unit

Before operating the unit for the first time, or after replacing the boat battery or changing connections, you must reset the unit.

Press RESET on the inner panel with a ball-point pen, etc., after detaching the front panel.



Note

Resetting the unit will erase the clock setting and some stored contents.

Switching the FM/AM Tuning Step

Set the FM/AM tuning step of your country. This setting appears **only while the source is off and the clock is displayed**.

- 1 Press MENU, rotate the control dial to select [GENERAL], then press it.
- 2 Rotate the control dial to select [TUNING STEP], then press it.
- 3 Rotate the control dial to select from [FM50K/AM9K], [FM100K/AM10K] or [FM200K/AM10K], then press it.

Pairing with a Bluetooth® Device

When connecting a BLUETOOTH device for the first time, mutual registration (called "pairing") is required. Pairing enables this unit and other devices to recognize each other. This unit can connect two BLUETOOTH devices (two mobile phones, or a mobile phone and an audio device).



- 1 Press MENU, then rotate and press the control dial to select [BLUETOOTH] → [PAIRING] → [DEVICE 1]/[DEVICE 2]*.

Ⓚ flashes while the unit is in pairing standby mode.

* [DEVICE 1] or [DEVICE 2] will be changed to the paired device name after pairing is complete.

- 2 Perform pairing on the BLUETOOTH device so it detects this unit.
- 3 Select your model name shown in the display of the BLUETOOTH device*.

When pairing is made, Ⓚ stays lit.

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

Canceling the Demonstration Mode

You can cancel the demonstration display which appears when the source is off and the clock is displayed.

- 1 Press MENU, rotate the control dial to select [GENERAL], then press it.
- 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) twice.
The display returns to normal reception/play mode.

Updating the Firmware

To update the firmware, visit the support site on the back cover, then follow the online instructions.

Notes

- Using a USB device (not supplied) is required for updating the firmware. Store the updater in the USB device, and connect the device to the USB port, then perform the update operation.
- Updating the firmware takes a few minutes to complete. During the update, do not turn the ignition to the OFF position, nor remove the USB device.

About Help Guide

For details on the functions and operations that are not covered in this manual, refer to Help Guide.

<http://xxxxxxx>

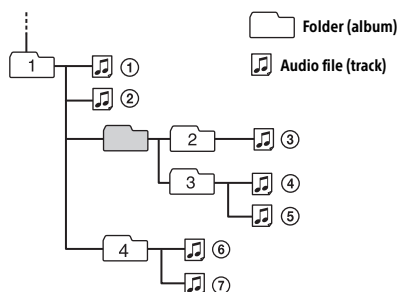


Additional Information

Precautions

- Do not leave the front panel or audio devices on the dashboard.
- When the unit is turned on, the power antenna (aerial) extends automatically.
- Do not splash liquid onto the unit.

Playback order of audio files



About iPod

- You can connect to the following iPod models. Update your iPod devices to the latest software before use.

Compatible iPhone/iPod models

Compatible Model	Bluetooth®	USB
iPhone XR	✓	✓
iPhone Xs max	✓	✓
iPhone Xs	✓	✓
iPhone X	✓	✓
iPhone 8	✓	✓
iPhone 8 Plus	✓	✓
iPhone 7	✓	✓
iPhone 7 Plus	✓	✓
iPhone SE	✓	✓
iPhone 6s	✓	✓
iPhone 6s Plus	✓	✓
iPhone 6	✓	✓
iPhone 6 Plus	✓	✓
iPhone 5s	✓	✓
iPhone 5c	✓	✓
iPhone 5	✓	✓
iPhone 4s	✓	✓
iPod touch (6th generation)	✓	✓
iPod touch (5th generation)	✓	✓
iPod nano (7th generation)		✓

- Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, 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 an Apple product may affect wireless performance.

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

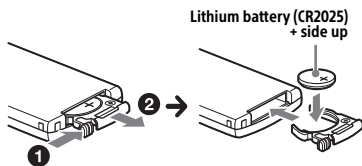
Maintenance

Replacing the lithium battery (CR2025) of the remote commander

When the battery becomes weak, the range of the remote commander becomes shorter.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

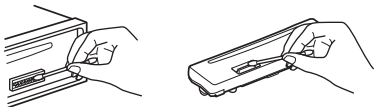


Note on the lithium battery

Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.

Cleaning the connectors

Avoid touching the connectors directly. 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 8) and clean the connectors with a cotton swab. Do not apply too much force. Otherwise, the connectors may be damaged.



Note

For safety, do not remove the front panel while driving.

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



CTA2006 Standard
Power Output: 45 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

Usable sensitivity: 8 dBf

Signal-to-noise ratio: 73 dB

Separation: 50 dB at 1 kHz

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

Sensitivity: 26 µV

USB Player section

Interface: USB (High-speed)

Maximum current:

Front: 1 A

Rear: 1.5 A

Maximum number of recognizable files (tracks): 10,000

Compatible Android Open Accessory protocol (AOA): 2.0

Corresponding codec:

MP3 (.mp3)

Bit rate: 8 kbps – 320 kbps (Supports VBR (Variable Bit Rate))

Sampling rate: 16 kHz – 48 kHz

WMA (.wma)

Bit rate: 32 kbps – 192 kbps (Supports VBR (Variable Bit Rate))

Sampling rate: 32 kHz, 44.1 kHz, 48 kHz

AAC (.m4a, .mp4)

Bit rate: 8 kbps – 320 kbps

Sampling rate: 11.025 kHz – 48 kHz

WAV (.wav)

Bit depth: 16 bit

Sampling rate: 44.1 kHz, 48 kHz

FLAC (.flac)

Bit depth: 16 bit, 24 bit

Sampling rate: 44.1 kHz, 48 kHz

Wireless Communication

Communication System:

BLUETOOTH Standard version 3.0

Output:

BLUETOOTH Standard Power Class 2 (Max. Conducted +1 dBm)

Maximum communication range*¹:

Line of sight approx. 10 m (33 ft)

Frequency band:

2.4 GHz band

(2.4000 GHz – 2.4835 GHz)

Modulation method: FHSS

Compatible BLUETOOTH Profiles*²:

A2DP (Advanced Audio Distribution Profile) 1.3

AVRCP (Audio Video Remote Control Profile) 1.5

HFP (Handsfree Profile) 1.6

PBAP (Phone Book Access Profile)

SPP (Serial Port Profile)

Corresponding codec:

SBC (.sbc), AAC (.m4a)

*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: 2 Ω /4 Ω – 8 Ω

Maximum power output: 100 W \times 4 (at 2 Ω /4 Ω)

General

Power requirements: 12 V DC boat battery (negative ground (earth))

Rated current consumption: 10 A

Dimensions:

Approx. 178 mm \times 50 mm \times 177 mm

(7 1/8 in \times 2 in \times 7 in) (w/h/d)

Mounting dimensions:

Approx. 182 mm \times 53 mm \times 160 mm

(7 1/4 in \times 2 1/8 in \times 6 3/8 in) (w/h/d) Mass:

Approx. 1.0 kg (2 lb 11 oz)

Package contents:

Main unit (1)

Remote commander (1): RM-X232

Parts for installation and connections (1 set)

Optional accessories/equipment:

SiriusXM Connect Vehicle Tuner: SXV100, SXV200, SXV300

Marine remote commander: RM-X11M

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

Ask the dealer for detailed information.

Design and specifications are subject to change without notice.

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Android is a trademark of Google LLC.

libFLAC

Copyright (C) 2000-2009 Josh Coalson
Copyright (C) 2011-2013 Xiph.Org Foundation

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Connection/Installation

Cautions

- **Run all ground (earth) leads to a common ground (earth) point.**
- Do not get the leads trapped 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.
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- 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 temperature, 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.

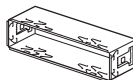
Note on the power supply lead (yellow) When connecting this unit in combination with other stereo components, the amperage rating of the boat circuit to which the unit is connected must be higher than the sum of each component's fuse amperage rating.

Mounting angle adjustment

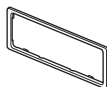
Adjust the mounting angle to less than 30°.

Parts List for Installation

- ① Mounting sleeve(1) ② Release keys (2)



- ③ Trim ring(1)



- ④ Mounting screws

5 × max. 8 mm
(7/32 × max. 5/16 in) (4)



- ⑤ Power supply leads (1)



- ⑥ Microphone (1)



- ⑦ Double-sided tape (1)



- ⑧ Flat-mount base (1)



- ⑨ Mounting plate (1)



- ⑩ Mounting screws

Max. size M4 × 6 mm
(1/4 in)

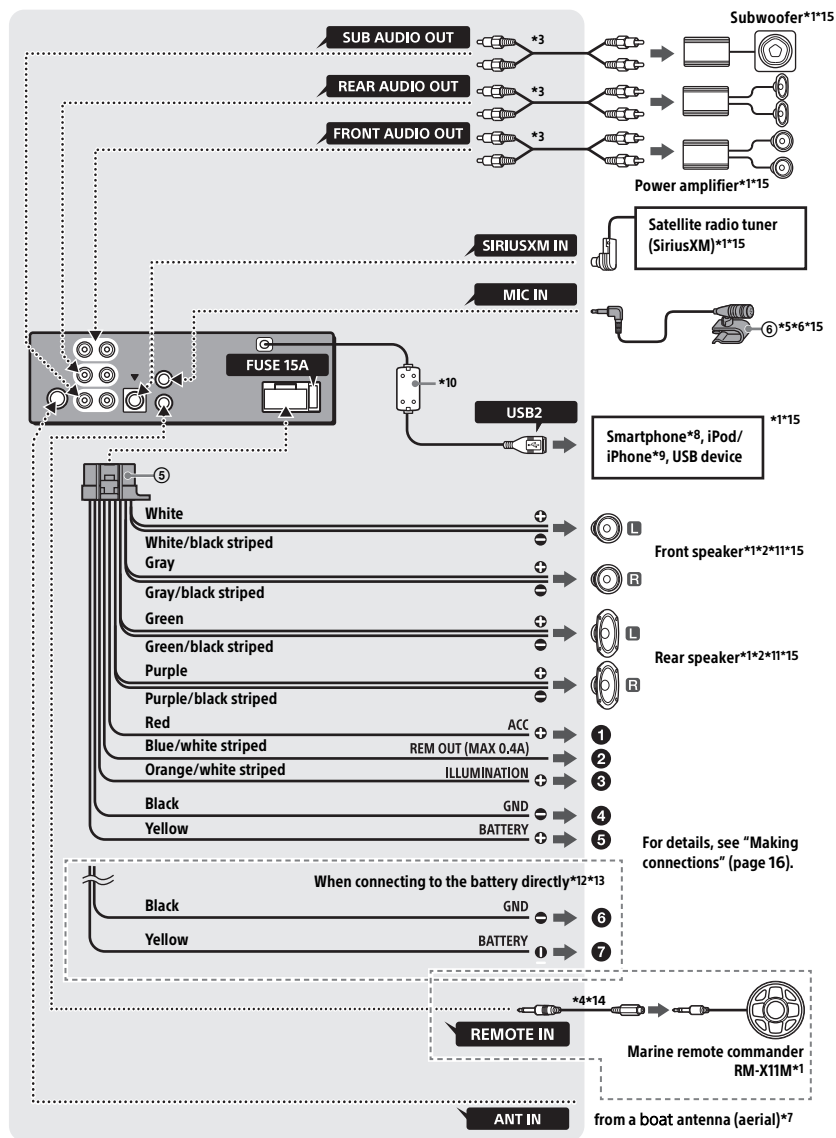


- ⑪ Mounting screws (1)



- This parts list does not include all the package contents.
- The mounting sleeve ① and the trim ring ③ are attached to the unit before shipping. Before mounting the unit, use the release keys ② to remove the mounting sleeve ① from the unit. For details, see "Removing the mounting sleeve".
- Keep the release keys ② for future use as they are also necessary if you remove the unit from your boat.

Connection



- *1 Not supplied
- *2 Speaker impedance: $4\ \Omega - 8\ \Omega \times 4$
- *3 RCA pin cord (not supplied)
- *4 Depending on the type of boat, use an adaptor for a wired remote control (not supplied).
- *5 Whether in use or not, route the microphone input cord such that it does not interfere with driving operations. Secure the cord with a clamp, etc., if it is installed around your feet.
- *6 For details on installing the microphone, see "Installing the microphone" (page 16).
- *7 Depending on the type of boat, use an adaptor (not supplied) if the antenna (aerial) connector does not fit.
- *8 To connect a smartphone to the main unit, an appropriate cable (not supplied) is required.
- *9 To connect an iPod/iPhone, use the USB connection cable for iPod (not supplied).
- *10 Ferrite sleeve
- *11 Use speakers with 50W RMS or higher power input capacity. Using Sony XB series full range speakers is recommended.
- *12 When the amperage rating of the fuse used on your boat is 10 A, make the power connection to the battery directly to avoid short circuits.
- *13 Before connection, arranging the yellow and black leads of the power connector is required.
- *14 Supplied with the marine remote commander.
- *15 Not waterproof

Making connections

- 1 To the +12 V power terminal which is energized when the ignition switch is set to the accessory position**
 If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
 Be sure to first connect the black ground (earth) lead to a common ground (earth) point.
- 2 To the power antenna (aerial) control lead or the power supply lead of the antenna (aerial) booster**
 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).
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.

3 To a boat's illumination signal

Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

4 To a common ground (earth) point

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

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

Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

When connecting to the battery directly

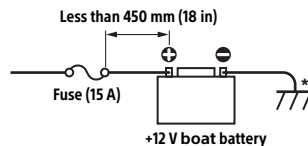
When the amperage rating of the fuse used on your boat is 10 A, make the power connection to the battery directly to avoid short circuits.

6 to a metal point of boat

7 to the positive battery terminal

Notes

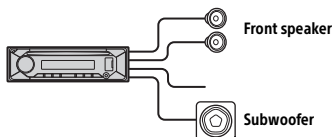
- Despite connecting to the power supply lead of the boat, the unit may not fully provide its performance due to insufficient power. In this case, make the power connection to the battery directly.
- All power wires connected to the positive battery post should be fused within 450 mm (18 in) of the battery post, and before they pass through any metal.
- Make sure that the boat's battery wires connected to the boat (ground (earth) to chassis)* are of a wire gauge at least equal to that of the main power wire connected from the battery to the head unit.
- During full-power operation, a current of more than 15 A will run through the system. Therefore, make sure that the wires to be connected to the +12 V and GND terminals of this unit are at least 14-Gauge (AWG14) or have a sectional area of more than 2mm^2 ($3/32$ in).
 When making the speaker parallel connection, use wires with more than 12-Gauge (AWG12) or wire that have a sectional area of more than 3.5mm^2 ($5/32$ in).



If you have any questions or problems concerning the connection, consult the dealer for details.

Subwoofer Easy Connection

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



Note

Use a subwoofer with an impedance of $4\ \Omega$ to $8\ \Omega$, and with adequate power handling capacities to avoid damage.

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.

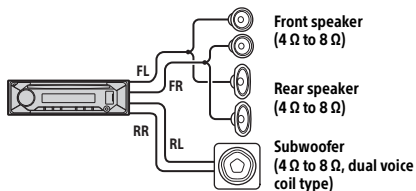
Speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with a $2\ \Omega$ impedance or $4\ \Omega$ to $8\ \Omega$ impedance, and with adequate power handling capacities to avoid damage.

Speaker Parallel Connection

When making the speaker parallel connection for a high volume playback, be sure to:

- Make the power connection to the battery directly.
- Set [SPEAKER LOAD] in [GENERAL] to [2 Ohm].

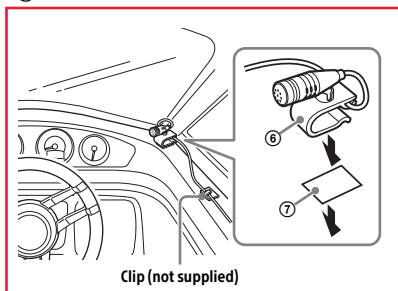


Note

When using a subwoofer with dual voice coil, or using a subwoofer by connecting the right and left rear speaker leads, be sure to set [SPEAKER LOAD] in [GENERAL] to [2 Ohm].

Installing the microphone

To capture your voice during handsfree calling, you need to install the microphone ⑥.



Cautions

- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from interfering with your driving operations.
- If any other shock-absorbing equipment is in your boat, contact the store where you purchased this unit, or the boat dealer, before installation.

Note

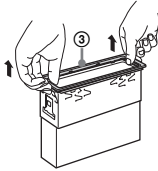
Before attaching the double-sided tape ⑦, clean the surface of the dashboard with a dry cloth.

Installation

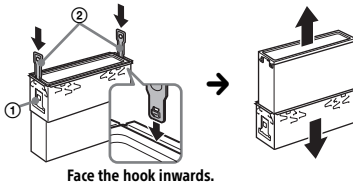
Removing the mounting sleeve

Before installing the unit, remove the trim ring ③ and the mounting sleeve ① from the unit.

- 1 Pinch both edges of the trim ring ③, then pull it out.



- 2 Insert both release keys ② until they click, and pull down the mounting sleeve ①, then pull up the unit to separate.



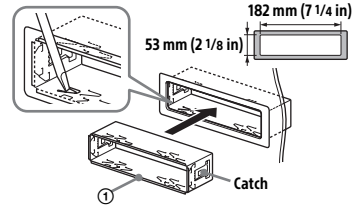
Mounting the unit in the dashboard or the cutout hole on boat

- Before installing, make sure the catches on both sides of the mounting sleeve ① are bent inwards 2 mm (3/32 in).
- For Japanese cars, see "Mounting the unit in a Japanese car".

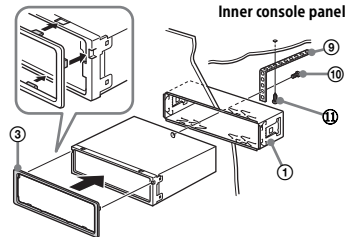
CAUTION

Do not touch the left side of the unit when removing from the dashboard. The heatsink on the left side of the unit remains hot right after use.

- 1 Position the mounting sleeve ① inside the dashboard, then bend the claws outward for a tight fit.



- 2 Mount the unit onto the mounting sleeve ①, then attach the trim ring ③.



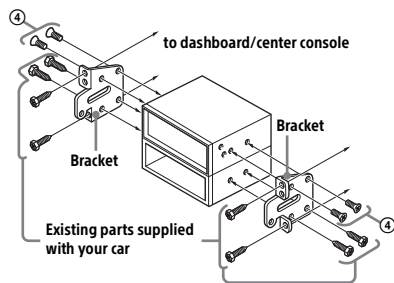
Notes

- If the catches are straight or bent outwards, the unit will not be installed securely and may spring out.
- Make sure the 4 catches on the trim ring ③ are properly engaged in the slots of the unit.

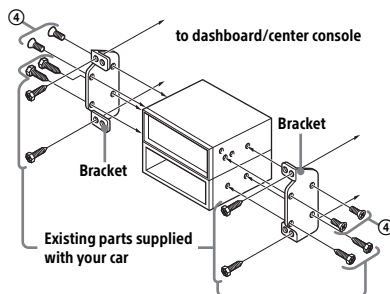
Mounting the unit in a Japanese car

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

TOYOTA



NISSAN



Note

To prevent malfunction, install only with the mounting screws ④.

Detaching and attaching the front panel

For details, see "Detaching the Front Panel"(Page 8).

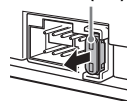
Resetting the unit

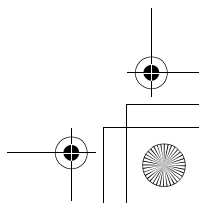
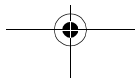
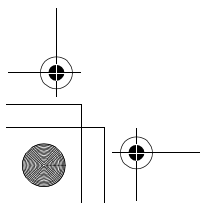
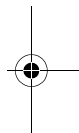
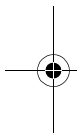
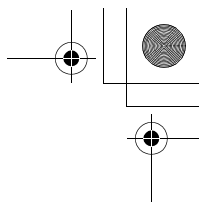
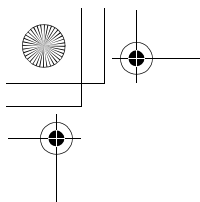
For details, see "Resetting the Unit"(Page 8).

Fuse replacement

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.

Fuse (15 A)





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 :

<https://www.sony.com/am/support>

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

- 1 Read Troubleshooting in Help Guide (online manual).**
- 2 Please contact (U.S.A. only);**
Call 1-800-222-7669
URL <https://www.SONY.com>

Help Guide (online manual)

For details on the functions and operations that are not covered in this manual, please visit the web site below:

Guide d'aide (manuel en ligne)

Pour plus de détails sur les fonctions et opérations qui ne sont pas abordées dans ce mode d'emploi, veuillez visiter le site Web ci-dessous :

https://rd1.sony.net/help/ev/xxx-xxxx/h_zz/



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