

FM/AM Cassette Car Stereo

Operating Instructions _____

EN

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. XR-C500 Serial No. _____

For installation and connections, see the supplied installation/connections manual.

XR-C500

© 1996 by Sony Corporation

Warning

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.

Welcome !

Thank you for purchasing the Sony Cassette Player. This unit lets you enjoy a variety of features by using either a rotary remote or a wireless remote.

In addition to the tape playback and the radio operations, you can expand your system by connecting an optional CD/MD changer.

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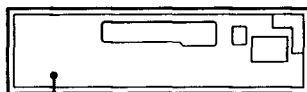
EN

Getting started

Resetting the unit

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

Press the reset button with a pointed object, such as a ball-point pen.



Reset button

Note

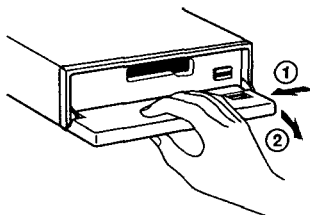
Pressing the reset button will erase all the memory functions except for the preset stations.

EN

Detaching the front panel

You can detach the front panel of this unit to prevent the unit from being stolen.

- 1 Press **OFF**.
- 2 Press **OPEN** to open the front panel, then slide the front panel to the left side, and pull out the right side of the front panel.

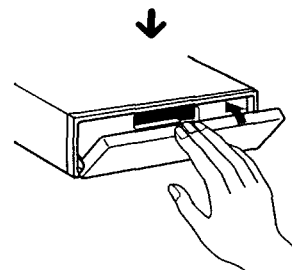
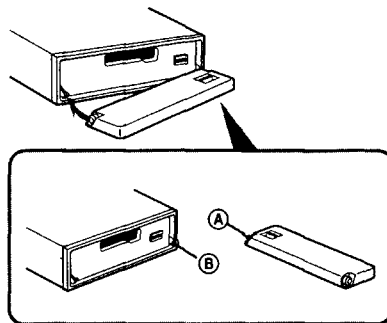


Notes

- Do not put anything on the inner surface of the front panel.
- Be sure not to drop the panel when detaching it from the unit.
- If you detach the panel while the unit is still on, the power will turn off automatically to prevent the speakers from being damaged.
- When you carry the front panel with you, put it in the supplied front panel case.

Attaching the front panel

Place the hole **A** in the front panel onto the spindle **B** on the unit as illustrated, then push the left side in.



Notes

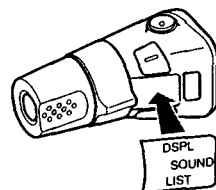
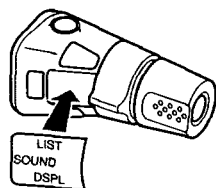
- Be sure not to attach the front panel upside down.
- Do not press the front panel hard against the unit when attaching it. Press it lightly against the unit.
- Do not press hard or put excessive pressure on the display windows of the front panel.
- Do not expose the front panel to direct sunlight, heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight where there may be a considerable rise in temperature.

Caution alarm

If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds (only when the POWER SELECT switch is set to the **A** position).

Preparing the rotary remote

When you mount the rotary remote, attach the label in the illustration below.

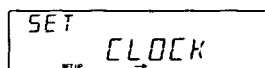


Setting the clock

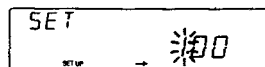
The clock has a 12-hour digital indication.

Example: Set the clock to 10:08

1 Press **(SHIFT)**, then press **(2)** (SET UP).

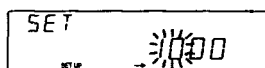


1 Press **(4)** (→).

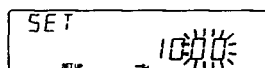


The hour digit flashes.

2 Set the hour.

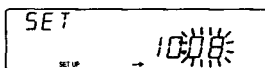


3 Press **(4)** (→).

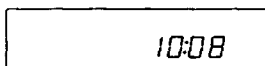


The minute digits flash.

4 Set the minute.



2 Press **(SHIFT)**.



The clock starts.

Note

If the POWER SELECT switch on the bottom of the unit is set to the **(I)** position, turn the power on first, then set the clock.

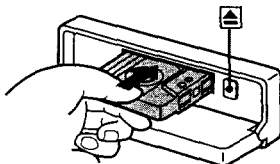
EN

Getting Started

Cassette Player

Listening to the tape

- 1 Press **OPEN** and insert the cassette.

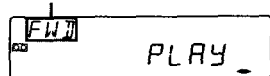


Playback starts automatically.

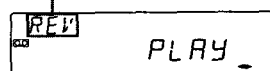
- 2 Close the front panel.

If the cassette is already inserted, press **SOURCE** until "FWD" or "REV" appears to start playback.

The side facing up is being played.



The side facing down is being played.



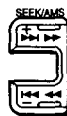
Tips

- To change the tape transport direction, press **7** (**◀▶**).
- "METAL" appears in the display when you insert the metal or CrO₂ tape (Auto Metal function).

To	Press
Stop playback	OFF
Eject the cassette	OPEN then ▲

Fast-winding the tape

During playback, press either side of **SEEK/AMS** for one second.



Fast-forward

Rewind

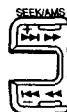
To start playback during fast-forwarding or rewinding, press **7** (**◀▶**).

Locating the beginning of the tracks

— Automatic Music Sensor (AMS)

You can skip up to nine tracks at one time.

During playback, press either side of **SEEK/AMS** momentarily.



To locate the succeeding tracks

To locate the previous tracks

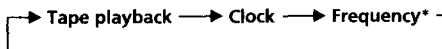
Note

The AMS function may not work when :

- the blanks between tracks are shorter than four seconds.
- there are noises.
- there are long sections of low volume or quiet sections.

Changing the displayed items

Each time you press **DSPL**, the item changes as follows:



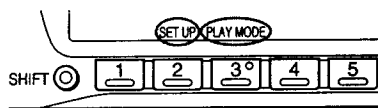
* While the ATA function is activated.

Playing the tape in various modes

You can play the tape in various modes:

- **INTRO** (Intro Scan) lets you play the first 10 seconds of all the tracks.
- **REPEAT** (Repeat Play) repeats the current track.
- **NR** (Dolby NR) lets you select the Dolby NR B system.
- **ATA** (Automatic Tuner Activation) turns on the tuner automatically while fast-winding the tape.
- **BL.SKIP** (Blank Skip) skips blanks longer than eight seconds.

- 1 Press **(SHIFT)**.
Every time you press **(SHIFT)**, only the items you can select light up.

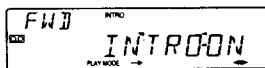


- 2 Press **(3)** (**PLAY MODE**), repeatedly until the desired play mode appears.
Each time you press **(3)**, the item changes as follows:

INTRO → REPEAT → NR → ATA → BL. SKP



- 3 Press **(4)** (**→**) to select "ON."



Playback starts.

To go back to the normal playback mode, select "OFF" in step 3 above.

Radio

Memorizing stations automatically

— Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals and memorizes them in the order of their frequencies. You can store up to 10 stations on each band (FM 1, FM 2 and AM).

Caution

When tuning in the station while driving, use Best Tuning Memory to prevent accidents.

- 1 Press **(SOURCE)** repeatedly to select the desired band (FM 1, FM 2 or AM).
- 2 Press **(SHIFT)**, then press **(6)** (**BTM**).
The unit stores stations in the order of their frequencies on the number buttons.
A beep sounds and the setting is stored.

Notes

- The unit does not store stations with weak signals. If only a few stations are received, some number buttons remain empty.
- When a preset number is indicated in the display, the unit starts storing stations from the one currently displayed.

Memorizing only the desired stations

You can store up to 10 stations on each band (20 for FM 1 and FM 2, 10 for AM) in the order of your choice.

- 1 Press **(SOURCE)** repeatedly to select the desired band.
- 2 Press either side of **(SEEK/AMS)** to tune in the station that you want to store on the number button.
- 3 Keep the desired number button (**(1)** to **(10)**) pressed for two seconds until you hear a beep tone.

The number button indication appears in the display.

Note

If you try to store another station on the same number button, the previously stored station will be erased.

EN

Cassette Player/Radio

Receiving the memorized stations

- 1 Press **(SOURCE)** repeatedly to select the desired band.
- 2 Press the number button **(1)** to **(10)** momentarily, where the desired station is stored.

If you cannot tune in a preset station

Press either side of **(SEEK/AMS)** momentarily to search for the station (automatic tuning).

Scanning stops when the unit receives a station. Press either side of **(SEEK/AMS)** repeatedly until the desired station is received.

Note

If the automatic tuning stops too frequently, press **(SHIFT)**, then press **(3)** (PLAY MODE) repeatedly until "LOCAL" (local seek mode) is displayed. Then press **(4)** (→) to select "ON."

Only the stations with relatively strong signals will be tuned in.

Tip

If you know the frequency of the station you want to listen to, press and hold either side of **(SEEK/AMS)** for two second, until the desired frequency appears (manual tuning).

If FM stereo reception is poor — Monaural Mode

- 1 Press **(SHIFT)**, then press **(3)** (PLAY MODE) repeatedly until "MONO" appears.
- 2 Press **(4)** (→) repeatedly until "MONO-ON" appears.
The sound improves, but becomes monaural ("STEREO" disappears).

To go back to the normal mode, select "MONO-OFF" in step 2 above.

Changing the displayed items

Each time you press **(DSPL)**, the item changes as follows:

Frequency ↔ Clock

Storing the station names


—Station Memo

You can assign a name to each radio station and store it in memory. The name of the station currently tuned in appears in the display. You can store up to eight characters for a station.

Storing the station names


- 1 Tune in a station whose name you want to store.

- 2 Press **(LIST)** for two seconds.

FM 1
2  _ _ _ _ _

- 3 Enter the characters.

- 1 Press **(+)** to select the desired characters.
(A → B → C → ... Z → 0 → 1 → 2 → ... 9 → + → - → * → / → \ → > → < → . → _)


FM 1
2  _ _ _ _ _

If you press **(-)**, the characters appear in the reverse order.

If you want to put a blank space between characters, select **"_"** (under-bar).

- 2 Press **(4)** (→) after locating the desired character.

The flashing cursor moves to the next space.

FM 1
2  _ _ _ _ _

If you press **(1)** (←), the flashing cursor moves to the left.

- 3 Repeat steps 1 and 2 to enter the entire name.

- 3 To return to the normal radio reception, press **(LIST)** for two seconds.

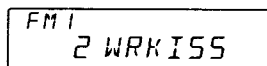
Tip

To erase/correct a name, enter **"_"** (under-bar) for each character.

EN

Displaying the station name

Press **(DSPL)** during radio reception.



Each time you press **(DSPL)**, the item changes as follows:

→ Station name* → Frequency → Clock →

* If the station name is not stored, "NO NAME" appears in the display for one second.

Erasing the station name

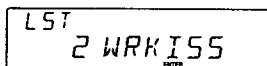
- 1 Tune in any station and press **(LIST)** for two seconds.
- 2 Press **(DSPL)** for two seconds.
- 3 Press **(+)** or **(-)** to select the name that you want to erase.
- 4 Press **(5)** (**ENTER**) for two seconds.
The name is erased.
Repeat steps 3 and 4 if you want to erase other names.
- 5 Press **(LIST)** for two seconds.
The unit returns to the normal radio reception mode.

Locating a station by name — List-up

- 1 Press **(LIST)** momentarily.
The name assigned to the station currently playing appears in the display.
- 2 Press **(LIST)** repeatedly until you find the desired station.
- 3 Press **(5)** (**ENTER**) to tune in the desired station.

Note

Once the station name or frequency has been displayed for five seconds, the display goes back to its normal mode. To turn off the display, press **(DSPL)**.



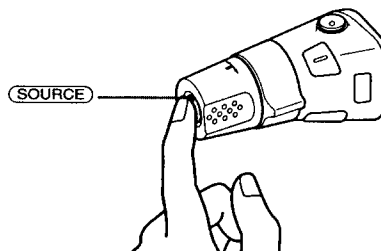
Other Functions

Using the rotary remote

The rotary remote works by pressing buttons and/or rotating controls.

You can control the optional CD or MD changer with the rotary remote.

By pressing the button (the SOURCE button)



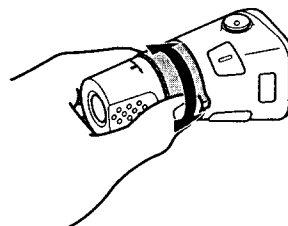
Each time you press **(SOURCE)**, the source changes as follows:

FM1 → FM2 → AM → CD1 → CD2 → MD1 → MD2

Tip

When the **POWER SELECT** switch is set to position **(I)**, you can turn on this unit by pressing **(SOURCE)** on the rotary remote.

By rotating the control (the SEEK/AMS control)



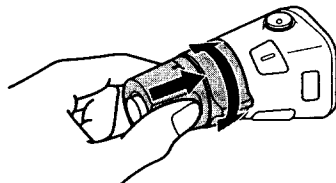
Rotate the control momentarily and release it to:

- Locate a specific track on a tape or a disc. Rotate and hold the control to locate the specific point in a track, then release it to start playback.
- Tune in the stations automatically. Rotate and hold the control to tune in the specific station.

EN

Radio/Other Functions

By rotating the control while pushing (the PRESET/DISC control)

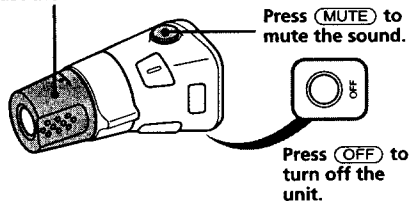


Rotate the control while pushing it to:

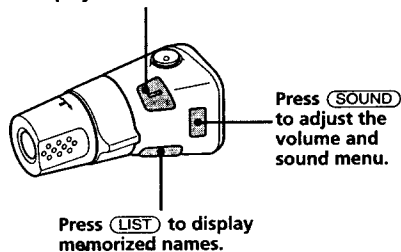
- Receive the stations memorized on the preset buttons.
- Change the disc.

Other operations

Rotate the VOL control to adjust the volume.

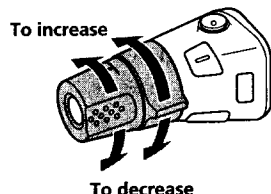


Press (DSPL) to change the displayed items.

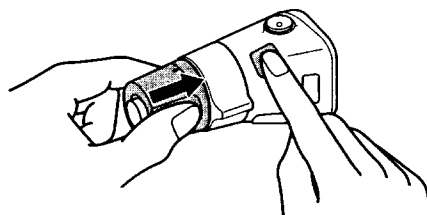


Changing the operative direction

The operative direction of controls is factory preset as in the illustration below.



If you need to mount the rotary remote on the right of the steering column, you can reverse the operative direction of the controls.



Press (DSPL) two seconds while pushing the VOL control.

Tip

You can control the operative direction of controls with the unit.

Adjusting the sound characteristics

You can adjust the bass, treble, balance and fader.

Each source can store the bass and treble level respectively.

- 1 Select the item you want to adjust by pressing (SOUND) repeatedly.

VOL (volume) → BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader)

- 2 Adjust the selected item by pressing (+) or (-).
Adjust within three seconds after selecting. (After three seconds, the buttons work as volume control buttons.)

Muting the sound

Press (MUTE).
"MUTE-ON" flashes.

To restore the previous volume level, press (MUTE) again.

Tip

The unit decreases the volume automatically when a telephone call comes in (Telephone-mute function).

Changing the sound and display settings

You can set:

- BEEP to turn on or off the beeps.
- DIM (dimmer) to change the brightness of the display.
- D. INFO (dual information) to display the clock and the play mode at the same time (ON) or to display the information alternately (OFF).
- LOUD (Loudness) to enjoy bass and treble even at low volume. Bass and treble will be reinforced.
- RM (Rotary Remote) to change the operative direction of the controls of the rotary remote.
 - Select "NORM" to use the rotary remote as the factory preset position.
 - Select "REV" when you mount the rotary remote on the right of the steering column.

1 Press **(SHIFT)**, then press **(2)** (SET UP).

2 Press **(2)** (SET UP) repeatedly until the desired setting mode appears.

Each time you press **(2)** (SET UP), the item changes as follows:

CLOCK → BEEP → DIM → D. INFO → LOUD → RM

3 Press **(4)** (→) to select the desired setting (for example: ON or OFF).

4 Press **(SHIFT)**.

When the mode setting is complete, the normal playback mode appears.

With Optional Equipment CD/MD Changer

You can control up to 10 CD changers and MD changers with this unit.

Playing a CD or MD

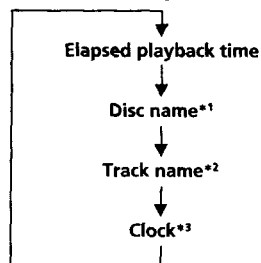
Press **(SOURCE)** until the desired changer appears.

CD/MD playback starts.

When a CD or MD changer is connected, all the tracks play from the beginning.

Changing the displayed items

Each time you press **(DSPL)** during CD/MD playback, the item changes as follows:



*1 If there is no prerecorded name for an CD or MD, "NO NAME" appears in the display.

*2 If the track name is not prerecorded, "NO NAME" appears in the display.

*3 If the dual information is on, clock does not appear in the display.

Tip

If the name of the MD is too long, you can scroll it across the display by pressing **(SHIFT)**, then **(1)** (←).

Automatically scrolling a disc name

— Auto Scroll

The Auto Scroll function automatically scrolls the disc or track name of the MD when you press **(DSPL)** and the name length exceeds 8 characters.

1 Press **(SHIFT)**, then press **(2)** (SET UP) repeatedly until "A. SCRL." appears.

2 Press **(4)** (→) to select "A. SCRL-ON."

To cancel Auto Scroll, select "A. SCRL-OFF" in step 2 above.

EN

Other Functions/CD/MD Changer

Displaying the recording date of the currently selected MD

Press **(DSPL)** for two seconds during MD playback.

The recording date of the track is displayed for about three seconds.

Locating a specific track

— Automatic Music Sensor (AMS)

During playback, press either side of **(SEEK/AMS)** once for each track you want to skip.



To locate succeeding tracks

To locate previous tracks

Locating a specific point in a track

— Manual Search

During playback, press and hold either side of **(SEEK/AMS)**. Release the button when you have found the desired point.



To search forward

To search backward

Locating a disc by disc number

— Direct Disc Selection

Press the number button that corresponds with the desired disc number.

The desired disc in the currently selected changer begins playback.

Scanning the tracks

— Intro Scan

You can play the first 10 seconds of all the tracks on the currently selected disc.

1 During playback, press **(SHIFT)**, then press **(3)** (PLAY MODE) repeatedly until "INTRO" appears.

2 Press **(4)** (→) repeatedly until "INTRO-ON." Intro Scan starts.

To go back to the normal playback mode, select "INTRO-OFF" in step 2 above.

Playing tracks repeatedly

— Repeat Play

You can select:

- REP-1 to repeat a track.
- REP-2 to repeat a disc.
- REP-3 to repeat all the discs in the current changer.

1 During playback, press **(SHIFT)**, then press **(3)** (PLAY MODE) repeatedly until "REP" appears.

2 Press **(4)** (→) repeatedly until the desired setting appears.

→ REP-1 → REP-2 → REP-3 → REP-OFF

Repeat play starts.

To go back to the normal playback mode, select "REP-OFF" in step 2 above.

Playing tracks in random order

— Shuffle Play

You can select:

- SHUF-1 to play the tracks on the current disc in a random order.
- SHUF-2 to play the tracks in the current changer in a random order.
- SHUF-3 to play all the tracks in a random order.

1 During playback, press **(SHIFT)**, then press **(3)** (PLAY MODE) repeatedly until "SHUF" appears.

2 Press **(4)** (→) repeatedly until the desired setting appears.

→ SHUF-1 → SHUF-2 → SHUF-3
SHUF-OFF ←

Shuffle play starts.

To go back to the normal playback mode, select "SHUF-OFF" in step 2 above.

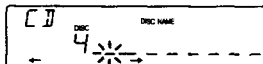
Labeling a CD

— Disc Memo

(CD changer with custom file function)

You can label each disc with a personalized name. You can enter up to eight characters for a disc. If you label a CD, you can locate a disc by name and select the specific tracks for playback (page 14).

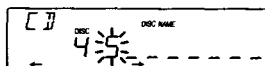
- 1 Play the CD and press **(LIST)** for two seconds.



- 2 Enter the characters.

- 1 Press **(+)** to select the desired characters.

(A → B → C → ... Z → 0 → 1 → 2 → ... 9 → + → - → * → / → \ → > → < → . → _)

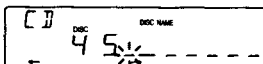


If you press **(-)**, the characters appear in the reverse order.

If you want to put a blank space between characters, select **"_"** (under-bar).

- 2 Press **(4) (→)** after locating the desired character.

The flashing cursor moves to the next space.



If you press **(1) (←)**, the flashing cursor moves to the left.

- 3 Repeat steps 1 and 2 to enter the entire name.

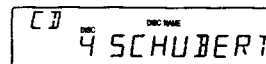
- 3 To return to the normal CD playback mode, press **(LIST)** for two seconds.

Tip

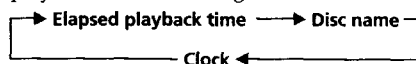
To erase/correct a name, enter **"_"** (under-bar) for each character.

Displaying the disc memo

Press **(DSPL)** during CD playback.



Each time you press **(DSPL)** during CD playback, the item changes as follows:



Erasing the disc memo

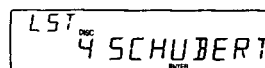
- 1 Press **(SOURCE)** to select the CD changer.
- 2 Press **(LIST)** for two seconds.
- 3 Press **(DSPL)** for two seconds.
- 4 Press **(+)** or **(-)** to select the name that you want to erase.
- 5 Press **(5) (ENTER)** for two seconds. The name is erased. Repeat steps 3 and 4 if you want to erase other names.
- 6 Press **(LIST)** for two seconds. The unit returns to the normal CD playback mode.

Locating a disc by name

— List-up (CD changer with custom file function or MD changer)

You can use this function for the discs that have been assigned a custom name. For more information on disc names, refer to "labeling a CD."

- 1 Press **(LIST)** momentarily. The name assigned to the disc currently playing appears in the display.



- 2 Press **(LIST)** repeatedly until you find the desired disc.
- 3 Press **(5) (ENTER)** to play back the disc.

continue to next page →

EN

CD/MD Changer

Notes

- Once a disc name has been displayed for five seconds, the display goes back to its normal playback mode. To turn off the display, press (DSPL).
- The track names are not displayed during MD playback.
- If there are no discs in the magazine, "NO DISC" appears in the display.
- If a disc has not been assigned a custom file, "*****" appears in the display.
- If the disc information has not been read by the unit, "NO READ" appears in the display. To load the disc, first press the number button, then choose the disc that has not been loaded.
- The information is appears only in upper cases. There are also some letters which cannot be displayed (during MD playback).

Selecting the specific tracks for playback

— Bank

(CD changer with custom file function)

If you label the disc, you can set the unit to skip tracks and play only the tracks you want.

- 1 Start playing the disc and press (SHIFT). Then press (3) (PLAY MODE) for two seconds.

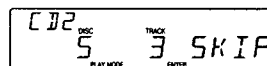
Bank edit mode



Note

If you have not labeled the disc, the bank edit mode does not appear. To go back to the normal playback mode, press (SHIFT).

- 2 Press either side of (SEEK/AMS) to select the track number you want to skip and press (5) (ENTER).



The indication changes from "PLAY" to "SKIP." If you want to return to "PLAY," press (5) (ENTER) again.

- 3 Repeat step 2 to set the "PLAY" or "SKIP" mode on all the tracks.

- 4 Press (3) (PLAY MODE) for two seconds.

Notes

- You can set the "PLAY" and "SKIP" mode on up to 24 tracks.
- You cannot set the "SKIP" mode on all the tracks.

Playing the specific tracks only

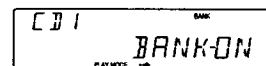
You can select:

- BANK-ON to play the tracks with the "PLAY" setting.
- BANK-INV (inverse) to play the tracks with the "SKIP" setting.

- 1 During playback, press (SHIFT), then press (3) (PLAY MODE) repeatedly until "BANK" appears.

- 2 Press (4) (→) repeatedly until the desired setting appears.

→ BANK-ON → BANK-INV → BANK-OFF



Playback starts from the track following the current one.

To go back to the normal playing mode, select "BANK-OFF" in step 2 above.

Precautions

- If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers of a two-speaker system, set the fader control to the center position.
- If your car is equipped with a power antenna, note that it will extend automatically while the unit is operating.

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

Notes on cassette deck tape heads

- Long use of cassette tapes contaminates the tape head causing poor sound quality or complete sound dropout. Therefore, we recommend cleaning the tape head once a month or so with the separately available Sony Cassette Cleaning Set. If the sound does not improve after using a cleaning cassette, please consult your nearest Sony dealer.
- In case of old or inferior cassette tapes, the tape head gets contaminated much more quickly. Depending on the tape, one or two playbacks may cause poor sound.

Cassette care

- Do not touch the tape surface of a cassette, as any dirt or dust will contaminate the heads.
- Keep cassettes away from equipment with built-in magnets such as speakers and amplifiers, as erasure or distortion on the recorded tape could occur.
- Do not expose cassettes to direct sunlight, extremely cold temperatures or moisture.
- When the tape is played back for a long period, the cassette shell may become warm because of the built-in power amplifier. However, this is not a sign of a malfunction.

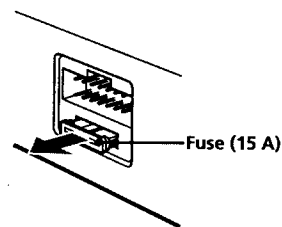
Cassettes longer than 90 minutes

The use of cassettes longer than 90 minutes is not recommended except for long continuous play. The tapes used for these cassettes are very thin and tend to be stretched easily. Frequent playing and stopping of these tapes may cause them to be pulled into the cassette deck mechanism.

Maintenance

Fuse replacement

When replacing the fuse, be sure to use one that matches the amperage described on the 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.

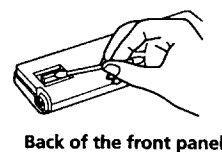
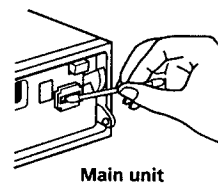


Warning

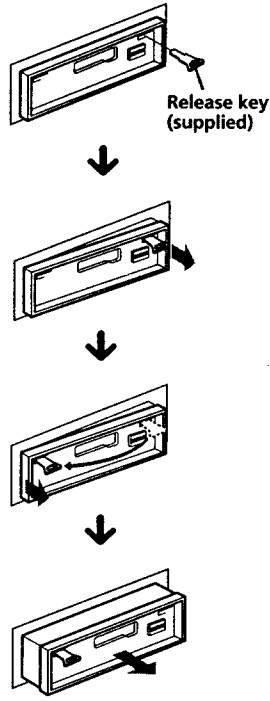
Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

Cleaning the connectors

The unit may not function properly if the connectors between the unit and the front panel are not clean. To prevent this, open the front panel by pressing **(OPEN)**, then detach it and clean the connectors with a cotton swab dipped in alcohol. Do not apply too much force. Otherwise, the connectors may be damaged.

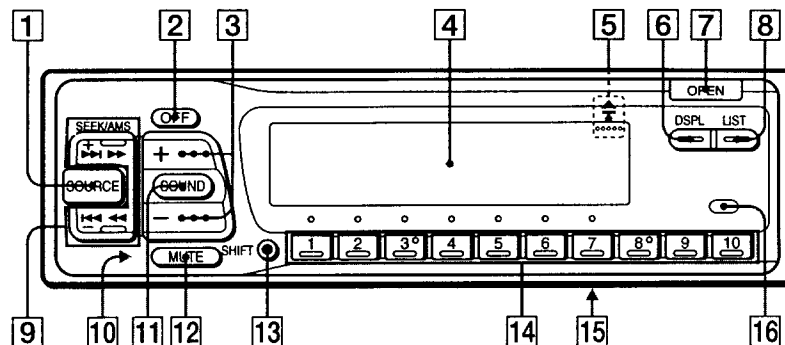


Dismounting the unit



2

Location of controls

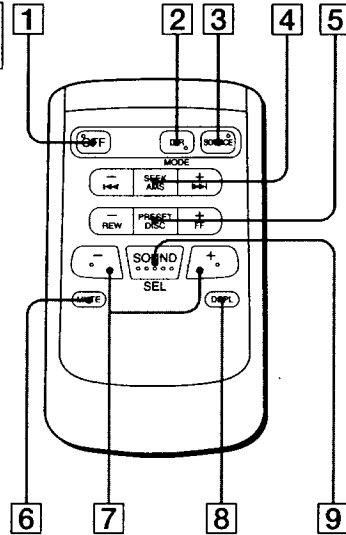


Refer to the pages for details.

- | | |
|--|--|
| <p>1 SOURCE (source select) button 6, 7, 8, 11, 13</p> <p>2 OFF button 4, 6</p> <p>3 + - (volume/bass/treble/balance/fader control) button 8, 9, 10, 13</p> <p>4 Display window</p> <p>5 ▲ (eject) button (located on the front side of the unit hidden by the front panel) 6</p> <p>6 DSPL button (display mode change) button 6, 8, 9, 11, 12, 13, 14</p> <p>7 OPEN button 4, 6, 15</p> <p>8 LIST button
Disc Memo 13
List-up 9, 13
Station Memo 8</p> <p>9 SEEK/AMS (seek/Automatic Music Sensor/manual search) button 6, 7, 8, 12, 14</p> | <p>10 Reset button (located on the front side of the unit hidden by the front panel) 4</p> <p>11 SOUND button 10</p> <p>12 MUTE button 10</p> <p>13 SHIFT button
BTM 7
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PLAY MODE 7, 8, 12, 14</p> <p>14 During radio reception:
Preset number buttons 7, 8
During CD/MD reception:
Direct disc selection button 12</p> <p>15 POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT switch" in the Installation/Connections manual.</p> <p>16 Receptor for remote commander</p> |
|--|--|

Location of controls

**Optional wireless remote
(RM-X41)**



Buttons with the same functions as those on this unit.

1 OFF button

3 SOURCE button

4 SEEK/AMS button

5 PRESET/DISC button

You cannot do the manual search and manual tuning with the wireless remote.

6 MUTE button

7 (-) (+) buttons

8 DSPL button

9 SOUND button

Buttons with different function than those on the master unit.

2 DIR button

Changes the playback side of the cassette.

When the POWER SELECT switch is set to the **ⓑ** position, the unit cannot be operated with the wireless remote unless **(SOURCE)** on the unit is pressed or a cassette is inserted to activate the unit first.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

13 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1 % total harmonic distortion.

Other specifications

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08 % (WRMS)
Frequency response	30 – 20,000 Hz
Signal-to-noise ratio	

Cassette type	Dolby B NR	Dolby NR off
TYPE II, IV	67 dB	61 dB
TYPE I	64 dB	58 dB

Tuner section

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)

Harmonic distortion at 1 kHz	0.5 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	35 W × 4 (at 4 ohms)

General

Outputs	Line outputs (2) Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 × 58 × 177 mm (7 ¹ / ₂ × 2 ³ / ₈ × 7 in.) (w/h/d)
Mounting dimension	Approx. 182 × 53 × 162 mm (7 ¹ / ₄ × 2 ¹ / ₈ × 6 ¹ / ₂ in.) (w/h/d)
Mass	Approx. 1.3 kg (2 lb. 14 oz.)
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Rotary remote RM-X2S Wireless remote RM-X41 BUS cable (supplied with an RCA pin cord) RC-61 (1 m), RC-62 (2 m) RCA pin cord RC-63 (1 m), RC-64 (2 m), RC-65 (5 m)
Optional accessories	CD changer CDX-71, CDX-72, CDX-81, CDX-91 (10 discs) CDX-T60, CDX-T62 (6 discs) MD changer MDX-40, MDX-60 Source selector XA-U20, etc.
Optional equipment	

Design and specifications are subject to change without notice.

troubleshooting guide

The following check help you remedy most problems that you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures.

General

Problem	Cause/Solution
No sound	<ul style="list-style-type: none">• Adjust the volume with (+).• Set the fader control to the center position for 2-speaker systems.
The contents of the memory have been erased.	<ul style="list-style-type: none">• The power cord or battery has been disconnected.• The reset button has been pressed. → Store again into the memory.
Indications do not appear in the display.	Remove the front panel and clean the connectors. See "Cleaning the connectors" (page 15) for details.

Tape playback

Problem	Cause/Solution
Playback sound is distorted.	Contamination of the tape head. → Clean the head.
The AMS does not operate correctly.	<ul style="list-style-type: none">• There is a noise in the space between tracks.• A blank space is too short (less than four seconds).• ►► on (SEEK/AMS) is pressed immediately before the following tracks.• ◄◄ on (SEEK/AMS) is pressed immediately after the track starts.• A long pause, or a passage of low frequencies or very low sound level is treated as a blank space.

Radio reception

Problem	Cause/Solution
Reset tuning is not possible.	<ul style="list-style-type: none">• Memorize the correct frequency.• The broadcast is too weak.
Automatic tuning is not possible.	The broadcast is too weak. → Use manual tuning.
The "STEREO" indication flashes.	<ul style="list-style-type: none">• Tune in the frequency correctly.• The broadcast signal is too weak. → Set to the monaural mode (page 8).

Error displays (when the optional CD/MD changer is connected)

The following indications flashes for about five seconds, and an alarm sound will be heard.

Display	Cause	Solution
NO MAG	The disc magazine is not inserted in the CD/MD changer.	Insert the disc magazine with discs into the CD/MD changer.
NO DISC	No disc is inserted in the CD/MD changer.	Insert the discs in the CD/MD changer.
ERROR* ¹	A CD is dirty or inserted upside down.* ²	Clean or insert the CD correctly.
	An MD does not play because of some problem.* ²	Insert another MD.
BLANK* ¹	No tracks have been recorded on an MD.* ²	Playback an MD with recorded tracks on it.
RESET	The CD/MD changer cannot be operated because of some problem.	Press the reset button of the unit.
NO READY	The lid of the MD changer is open or MDs are not inserted properly.	Close the lid or inserted the MDs properly.
HI TEMP	The ambient temperature is more than 50°C (122°F).	Wait until the temperature goes down below 50°C (122°F).

When an error occurs during playback of an MD or CD, the disc number of the MD or CD does not appear in the display. The disc number of the disc causing the error appears in the display.

If the above-mentioned solutions do not help improve the situation, consult your nearest Sony dealer.

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