

FM/AM Cassette Car Stereo

XR-U800

Operating Instructions page 2

Before operating the unit, please read this manual thoroughly and retain it for future reference.

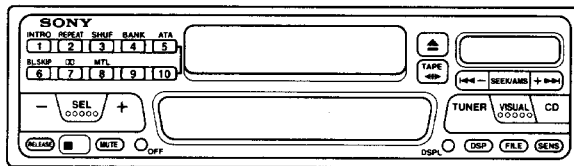
Owner's Record

The model and serial numbers are located at the top 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-U800 Serial No. _____

Mode d'emploi page 58

Avant la mise en service de cet appareil, prière de lire attentivement ce mode d'emploi que l'on conservera pour toute référence ultérieure.



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

En ce qui concerne l'installation et les connexions, consulter le manuel d'installation/connexions fourni.

Features

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.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC rules.

General


- Supplied with the **rotary commander** which can be operated like a wiper or headlight switch of your car while driving.
- **Detachable-front panel** enables you to take the front panel away with you when you leave your car. (page 15)
- **Caution alarm** will be activated if you turn off the ignition key without removing the front panel from the unit.
- **Switchable two color illumination** (amber and green). (page 3)
- Provided with a **digital 12-hour clock**. (page 16)
- Line outputs for connecting an optional power amplifier.
- **Telephone-mute function** for decreasing the volume automatically with a telephone call.

Tuner section

- Up to 30 stations can be preset: 20 stations on FM and 10 stations on AM.
- **BTM (Best Tuning Memory) function** automatically searches and stores the stations with the strongest signals on the preset number buttons in order of frequency. (page 29)
- **Station memo function** for displaying the names of the radio stations stored in the memory. (page 32)
- Provided with a **FM diversity reception system** for a better radio reception.

Cassette player section

- **Laser amorphous head** for clear sound reproduction.
- **Dolby B and C NR¹** system reduces hiss noise during tape playback. (page 7)
- **Intro scan function** for playing the first 10 seconds of each track. (page 17)
- **Repeat play function** for playing back a currently playing track repeatedly. (page 17)
- **Blank skip function** for automatically skipping blank spaces during tape playback. (page 7)
- **ATA (Automatic Tuner Activation)** for automatically turning on the tuner while fast-forwarding or rewinding a tape. (page 7)

¹Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

CD changer control section (when the optional Sony CD changers are connected)

- Several Sony CD changers (not supplied) can be connected and controlled by the use of the Sony source selector(s) (not supplied).
- **Custom title function** for displaying the title of each disc, and setting the PLAY/SKIP mode on each track. (page 22)
- **Shuffle play function** for playing tracks in random order. (page 19)
- **Intro scan function** for playing the first 10 seconds of each track. (page 21)
- **Repeat play function** for playing a currently playing track repeatedly. (page 20)

TV tuner section (when the optional TV monitor and TV tuner unit are connected)




- **Station memo function** for displaying the names of TV stations on the TV monitor. (page 32)
- **List up function** enables CD titles and the contents of the preset memory to be displayed on the TV monitor. (page 27, 34)

DSP control section (when the optional Digital Signal Processor XDP-U50D is connected)

- **Surround menu** enables you to select different soundfields inside your car.
- **DSP custom title function** enables the discs to be played in the customized DSP modes. (page 40)
- **LSM function** enables the programs to be played with the preset surround menu. (page 42)

The symbols used in this manual

These symbols represent the following operations:

-  Tape playback
-  CD play
-  Radio/TV reception

- Before operating the unit for the first time or after replacing the car battery, press the reset button with a ball-point pen etc., then start operating the unit.
- 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 connectors first. If everything is in order, check the fuse.
- If no sound comes out of the speakers of a 2 speaker system, set the fader control to the center position.

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

For Safe Driving

We recommend you to use the supplied rotary commander to operate this unit. When you need to use the buttons on the unit for registering the custom tier or setting the DSP modes etc., be sure to do so while the car is parked.

Notes on Cassettes

Cassette care

- Avoid touching 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.
- The cassette shell may become warm when the tape is played back for a long period of time because of the built-in power amplifiers. However, this is not a sign of a malfunction.

Notes on cassettes longer than 90 minutes

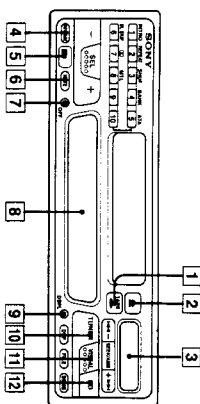
The use of cassettes longer than 90 minutes is not recommended except for long continuous play. The tapes used for these cassettes are very thin and tends to be stretched easily. Frequent playing and stopping operation for these tapes may cause them to be pulled into the cassette deck mechanism.

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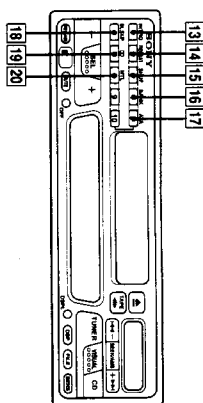
Location and Function of Controls

Main unit



Refer to the pages in ● for details.

- 1 **TAPE/◀▶** (playback/transport direction change) button ●
- 2 **⏮** (eject) button
- 3 **Sub (current mode) display window**
Displays the currently selected program source (tape/CD/FM/AM/TV) and the DSP mode.
- 4 **RELEASE** (front panel release) button ●
- 5 **Receptor for the remote commander**
- 6 **MUTE button**
Press to mute the sound momentarily. Press again to restore the same volume level. This button is also canceled in the following cases:
— when the + side of the button or the OFF button is pressed
— when ejecting a cassette by pressing the button during tape playback.
— when the ignition key of your car has been turned to the OFF position for more than eight seconds.
- 7 **OFF button**
Press to turn off the unit.
- 8 **Main (Current operation) display window**
Displays the information of the currently selected program source such as the tape transport direction, the elapsed playing time of a disc and the current time etc.
- 9 **DSP_L** (display mode change/time set) button
Each time the button is pressed, the display on the main display window changes as follows:



	"PLAY" → "PLAY" (The indication will be scrolled) → Clock (Clock → Frequency)*
	Elapsed playback time → Disc title* → Clock
	Station name* → Frequency → Clock
	Channel number → TV station name → Clock (TV)

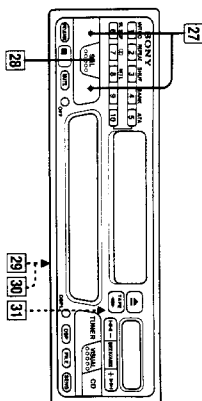
*1 While the ATA function is activated, the indication will appear on the main display window.
*2 If the file has not been registered, "-----" indication will appear on the main display window.

- 10 **TUNER (radio onband select) button**
Each time the button is pressed, the band changes in order of:
FM1 → FM2 → AM → FM1.
- 11 **VISUAL (television/video select) button***
Each time the button is pressed, the mode changes in order of:
TV (television picture) → VIDEO 1 (video picture) → VIDEO 2* → TV.
*1 Only when the optional TV tuner unit is connected with the car TV antenna is connected.
*2 and the VIDEO 2 mode is selected.
- 12 **CD (disc play/CD changer select) button**

13 INTRO button 		
14 REPEAT button 		
15 SHUFF button 		
16 BANK button 		
17 ATA button 		
18 BL-Skip button 		
19 CD (Dolby NR) button 		
20 MTL (metal/Coz) button 		

Preset number buttons ●●

Location and Function of Controls



27 **SUB output level/bass/treble/balance/fader/volume control** knob

Press to adjust each mode

28 **SEL (control mode select) button**

Press to select the desired control mode: SUB (sub), BAS (bass), TRE (treble), BAL (balance), FAD (fader) or VOL (volume).

29 **POWER SELECT switch** (located on the bottom of the unit)

See "POWER SELECT Switch" in the installation/connections manual

30 **FM DIVERSITY switch** (located on the bottom of the unit)

See "FM DIVERSITY Switch" in the installation/connections manual

31 **Recall button** (located on the front side of the unit hidden by the front panel)

Press this button when you use this unit for the first time, when you have changed the car battery, or when the buttons of this unit do not function properly.

Sub display window	Control mode	Press -	Press +
SUB output level	For less volume	For less volume	For more volume
BAS ¹	Bass control ¹	For less bass	For more bass
TRE ¹	Treble control ¹	For less treble	For more treble
BAL	Balance control	To decrease the right-speakers volume	To decrease the left-speakers volume
FAD ²	Fader control ²	To decrease the rear-speakers volume	To decrease the front-speakers volume
VOL	Volume control	For less volume	For more volume

¹ The level of the SUB output cannot be adjusted.

² When the optional digital signal processor XDP-USD is connected, you can adjust the fader.

• When you use the optional XDP-USD, whether the DSP mode is on or off, the XDP-USD will control the equalizer, not the DSP. The level of the SUB output can be adjusted as well.

Rotary Commander

SOURCE selector **VOL (volume) control**

• Press to select program sources. Each time the button is pressed, the program source mode changes as follows:

Radio → CD → Tape → TV*1
→ Video*1 → Radio.

* Turn to adjust the volume.

PRESET/OSC control

Fast forwards or rewinds the tape.

To return to the normal playback mode, press the MODE button.

Changes the discs when the CD changer(s) (is/are) connected.

Receives the stations memorized on the preset number buttons. (Preset search function)

SEEK/AMS control

Locates the beginnings of the tracks (AMS*2 function). Rotate the control the number of times you wish to skip the tracks.

Automatically tunes to a station. When a station is found in the search, stops automatically.

Rotate the control several times until a desired station is tuned in.

(Manual search) buttons

Locates the desired part of a track. Press either of the buttons until the desired part is located.

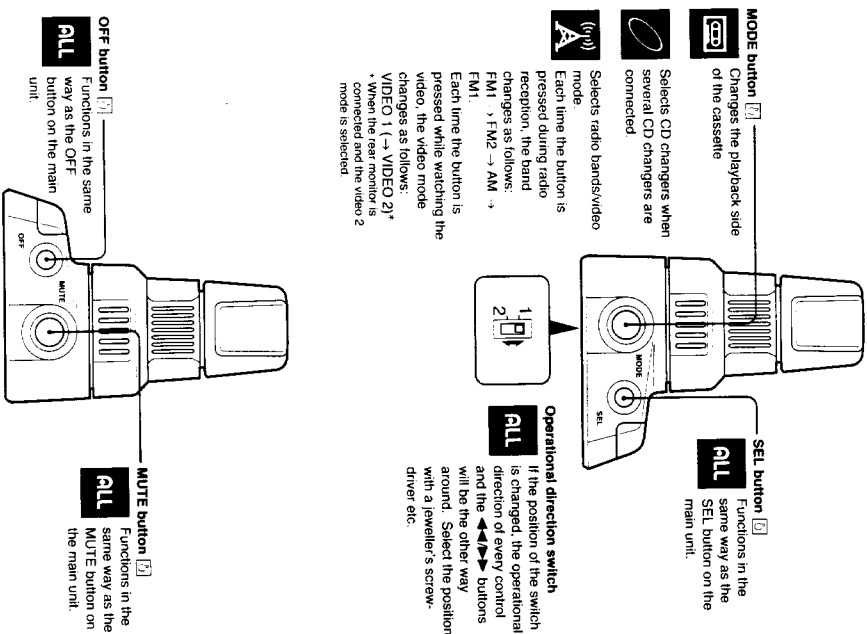
(Manual search) buttons Manually searches a station. Keep either button pressed until a desired station is tuned in.

*1 When the TV tuner unit is connected

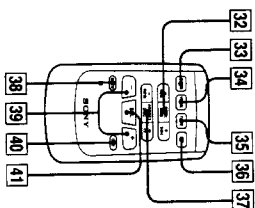
*2 Automatic Music Sensor

	During tape playback		During Radio/TV reception
	During CD play		All operations
	Turn		Press

Location and Function of Controls



Optional Wireless Remote Commander



Buttons of the same function as those on the main unit

32	AMS (Automatic Music Sensor) button*	SEEK (automatic tuning) button*
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* You cannot do the manual search and manual tuning with the remote commander.

- 33 TUNER (radio on/band select) button
- 34 VISUAL (television/video select) button
- 35 TAPE (playback/transport direction change) button
- 36 CD (disc play/CD changer select) button
- 37 MUTE button
- 38 balance/treble/bass/volume control) buttons
- 39 OFF button
- 40 SEL (control mode select) button

Different function buttons

37	FF/REW (fast-forward/reward) button	DISC (disc change) button + To select the next disc number - To select the previous disc number	PRESET (preset search) button
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When the POWER SELECT switch is set to the OFF position, the unit cannot be operated with the wireless remote commander unless one of the CD, TUNER and VISUAL buttons on the unit is pressed or a cassette is inserted to activate the unit first.

Location and Function of Controls

Optional Wireless Remote Commander

Installing the Batteries



Two size AA (R6) batteries

Battery life

When the batteries become weak, you will not be able to operate the unit with the remote commander. Battery life is approx. six months although it depends on the way of use.

Notes on batteries

- To avoid damage from battery leakage and corrosion.
 - insert the batteries with correct polarity
 - do not use an old battery with a new one, or different types of batteries together
 - remove the batteries when you do not use the unit for a long period of time
 - do not charge the batteries.
- If any battery leakage occurs, replace the batteries with new ones after cleaning the battery compartment.

Notes on the Remote Commander

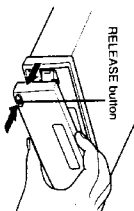
- Do not leave the remote commander in a location near any heat sources, or in a place subject to direct sunlight (especially on the dashboard in summer, etc.).
- When you park the car in direct sunlight, place the remote commander in a location not subject to direct sunlight such as the glove-box.

Detaching and Attaching the Front Panel

The front panel of this unit can be detached in order to prevent the unit from being stolen.

Detaching the Front Panel

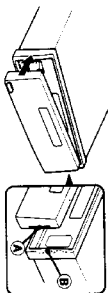
Before detaching the front panel, be sure to press the OFF button first. Then press the RELEASE button to open up the front panel and detach the panel by pulling it towards you as illustrated.



Be sure not to drop the panel when detaching it from the unit.

Attaching the Front Panel

Apply the right hand side of the front panel to the unit by attaching part (A) of the front panel to part (B) of the unit as illustrated and push until it clicks.



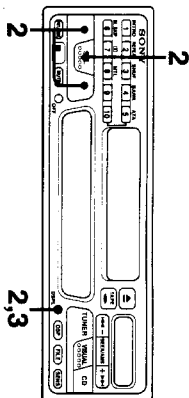
Caution alarm

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

Notes

- Make sure that the front panel is the right way up when attaching it to the unit as it cannot be attached upside down.
- Do not press the front panel hard against the unit when attaching it to the unit. It may possibly be attached by pressing it softly against the unit.
- When you carry the front panel with you, put it in the supplied front panel case.
- Do not press hard or give excessive pressure to the display window of the front panel.
- Before removing the front panel, be sure to turn the power off. However, if you turn the REL F.A.S.T. button on the display window while the unit is still turned on, the power will be automatically turned off in order to protect the speakers from being damaged.
- Do not expose the front panel to direct sunlight, heat sources such as hot air ducts or leave it in a humid place. Never leave it on the dashboard etc. of a car parked in direct sunlight where there may be a considerable rise in temperature inside the car.

Setting the Clock



The clock has a 12-hour digital indication.

For example, to set it to 10:08.

1 Turn the ignition key to the ON position.

2 Press the DSP/L button for more than two seconds.

While keeping the DSP/L button pressed, proceed with the following:

Press either side of the button to set the hour digits.

(to go back)

(to go forward)

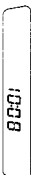
Press the SEL button.

Press either side of the button to set the minute digits.

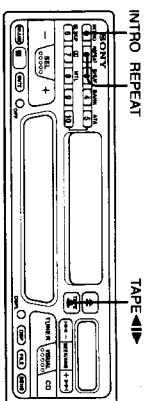
(to go back)

(to go forward)

3 The clock starts activating when you take your finger off the DSP/L button.

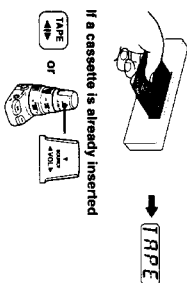


Listening to Tape Playback



Insert a cassette to start playback.

If a cassette is already inserted



Playing in Other Modes

Listening to the first 10 seconds of each track — Intro scan function

Press the button during playback.

The first 10 seconds of all the tracks are played. When you find the desired track, press the button once more. The unit returns to the normal playback mode.

Listening to the currently playing track repeatedly — Repeat play function

Press the button during playback.

When the currently playing track is over, the same track is played again from the beginning. To cancel this mode, press the button once more.

You can use the optional wireless remote commander as well.

Tape transport direction indication

Press the DSP/L button during tape playback.

The "PLAY" indication will be

scrolled across the main display window from left to right while the top side of the cassette is being played back.

The "PLAY" indication will be

scrolled across the main display window from right to left while the reverse side of the cassette is being played back.

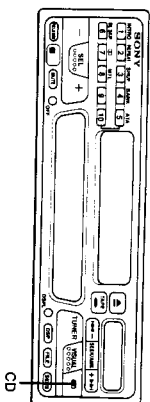
Note

The intro scan function will be canceled if you turn off the unit by pressing the OFF button or turning the ignition key to the OFF position and leaving it for more than eight seconds.

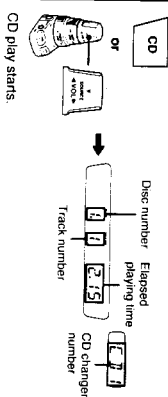
Cassette Player Operation

Listening to CD Play

(With the Optional CD Changer(s) Connected)



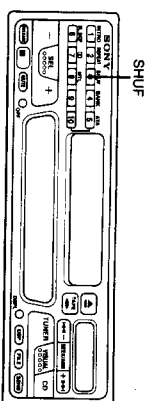
Press the CD button.



You can use the optional wireless remote commander as well.

If the unit is set in the normal playing mode, after the end of a disc, the disc with the next number shown will be automatically played. If two or more CD changers are connected, the first disc of the last disc in the CD changer will be played. The order of the CD play can be rearranged by changing the playing modes. For details, see "Playing in Other Modes" (page 19).

Playing in Other Modes



Playing the Discs Randomly

— Shuffle Play Functions

Playing the tracks on the currently selected disc randomly — Disc shuffle play

Press the **SHUF** button lightly to get the "SHUF 1" indication during CD play.

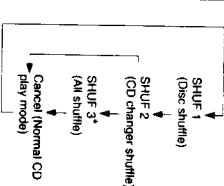
Playing every track on every disc in the currently selected CD changer randomly — CD changer shuffle play

Press the **SHUF** button lightly to get the "SHUF 2" indication during CD play.

Playing every track on every disc in all the CD changer(s) connected randomly — All shuffle play (when two or more CD changers are connected)

Press the **SHUF** button lightly to get the "SHUF 3" indication during CD play.

The function of the SHUF button changes cyclically as follows:



* All shuffle play (SHUF 3) mode functions only when two or more changers are connected to the unit. When only one changer is connected, the SHUF 3 indication will not be displayed. If you press the SHUF button again while the "SHUF 2" indication is being displayed, the shuffle play will be canceled.

Playing in Other Modes

REPEAT



Playing a Disc Repeatedly

Repeat Play Functions

Playing the currently selected track repeatedly

Track repeat

Press the **[REPEAT]** button lightly to get the "REP 1" indication during CD play.

Playing the currently selected disc repeatedly — Disc repeat

Press the **[REPEAT]** button lightly to get the "REP 2" indication during CD play.

When the last track on the currently selected disc is over, the CD play is repeated from the beginning of that disc.

Playing the discs in the currently selected CD changer repeatedly — CD changer repeat (when two or more CD changers are connected)

Press the **[REPEAT]** button lightly to get the "REP 3" indication during CD play.

When the last disc in the CD changer has been played, the CD play will be repeated from the first disc in the currently selected CD changer.

INTRO



Listening to the first 10 seconds of each track — Intro Scan Function

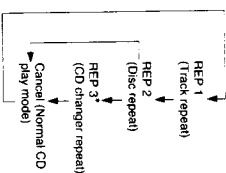
Press the **[INTRO]** button lightly during CD play.

The first 10 seconds of all the tracks on the currently selected disc are played in order. After the first disc is played with the intro scan function, the next disc is played. When two or more CD changers are connected, after the last disc is played, CD play moves on to the next CD changer.

When you find the desired track, press the INTRO button once more. The unit returns to the normal CD play mode.

If the INTRO button is pressed during shuffle play, the first 10 seconds of every track will be played randomly.

CD Changer Operation



* CD changer repeat (REP 3) mode functions only when two or more CD changers are connected to the unit. When only one CD changer is connected, the "REP 3" indication is not displayed. In this case, if you press the REPEAT button again while the "REP 2" indication is being displayed, the repeat mode will be canceled.

— **Disc Memo Function**



Discs

- one second.)

- FILE**

Name edit mode

- characters appear in the following order:

characters appear in the following order:



You can use the supplied rotary commander or the optional wireless remote commander as well.

-

The flashing part moves to the next space on the right. Repeat steps 3 and 4 to enter the entire title. Up to eight characters can be used per disc.

- FILE**

Press the FILE button for more than two seconds

- ⓑ To continue to put titles onto the discs**




(Press for more than one second.)

Changing a title

Play the disc whose title you wish to change and repeat steps 2 to 5.

Erasing a title

- 1 Select the CD changer and play any disc.
 - 2 Press the FILE button for more than two seconds to enter the name edit mode.
 - 3 Press the SEL button while pressing the preset number button 5.
 - 4 Press either side of the  button to select the title that you wish to erase.
 - 5 Press the SEL button for more than two seconds.
 - 6 Repeat step 4 and step 5 if necessary.
- Press the FILE button for more than two seconds.**
Once the title and the PL/AV/SD settings are erased, the unit returns to the normal CD play mode.

- If you press the SEL button

- when the eighth character (farthest right character) is flashing, the flashing part goes back to the first character (farthest left character).
- if you wish to put a blank space after a character, select " (under-bar).

If you press the CD button, the next CD changer will be selected (when two or more CD changers are connected)

CD Changer Operation

When you change the title, the PLAY/SKIP settings of the band function or any setting of DSP custom file function will not be erased at the same time.

If you erase the title, the PLAY/SKIP settings of the bank function and the settings of DSP custom file function will be erased as well.

The alternative method to

You can erase a title by selecting eight "s (under-bars) as described in step 3 of "Putting Your Personalized Titles onto the Discs" (page 22).

Displaying the Title of Each Disc



Displaying the Title

Press the DSP button.



Title display modes

While loading the discs, whatever the display mode the unit is in, the indication on the main display window automatically changes as follows:

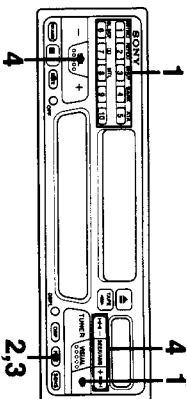
- ▶ The title of the disc ▶ Disc and track number (two seconds) ▶ Currently selected display mode (two seconds)

Custom file function

You can register the customized titles and the PLAY/SKIP settings on up to 110 discs* per CD changer (custom file function). These settings are stored in the memory of the CD changer. Therefore, even if you take a custom-filed disc out of the CD changer, you can still use the same custom-file function the next time you play that disc in the same CD changer. Furthermore, if your system has several CD changers connected, you can play that disc in another CD changer and still use the same custom file function, provided that the CD changers are inter-connected with the UNILINK cables.

* If you try to register more than 110 discs, the unit will display the "FULL" indication on the main display window. In this case, you will have to erase the memory of other discs before you enter the new ones (page 23).

Playing Selected Tracks on a Disc — Bank Function



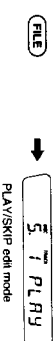
Setting the Play and Skip Modes on the Discs

- 1 Play the disc to which you wish to set these modes.
CD [FILE] [1] [0] [F] [1]
(Press for more than one second.)

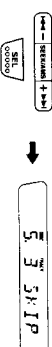
- 2 Press the FILE button for more than two seconds and put the titles onto the discs.

[FILE]
See page 22 for details about putting on a title. If the title has already been registered, go to step 3.

- 3 Press the FILE button lightly to enter the PLAY/SKIP edit mode.



- 4 Press either side of the AMS button to select the track number you wish to skip and press the SEL button.



The indication changes from "PLAY" to "SKIP". If you wish to return to "PLAY", press the SEL button once more.

Repeat the operation in this step to set either the "PLAY" or "SKIP" mode on all the tracks.

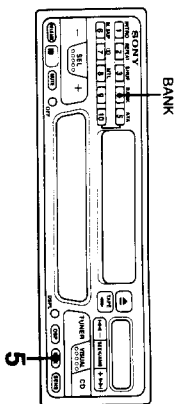
You can use the supplied rotary commander or the optional wireless remote commander as well.

CD Changer Operation

Notes

- When the title is not registered, you cannot enter the title. You can only set the "SKIP" mode onto up to 24 tracks. If a disc has more than 24 tracks, you will not be able to set the "SKIP" mode on the tracks after the 24th track.
- You cannot set the "SKIP" mode onto all of the tracks on a disc.

Playing Selected Tracks on a Disc



- 5 Press the **FILE** button for more than two seconds.

The unit returns to the normal CD play mode.

Playing with the Bank Function

Press the **BANK** button lightly during CD play.



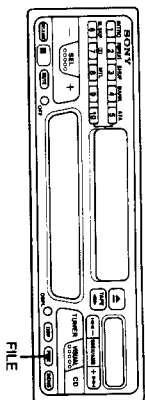
The "BANK" indication appears on the main display window. The unit starts playing the tracks with "PLAY" settings which have been set by the PLAY/Skip edit mode.

To return to the normal CD play mode, press the **BANK** button once more.

When the **BANK** button is pressed while pressing the **SEL** button, the unit starts playing the tracks with "Skip" settings which have been set by the PLAY/Skip edit mode.

To go back to the normal playing mode, press the **BANK** button again while pressing the **SEL** button.

Displaying the Stored CD's Information on the TV Monitor (When the Optional TV Tuner Unit and TV Monitor are Connected)

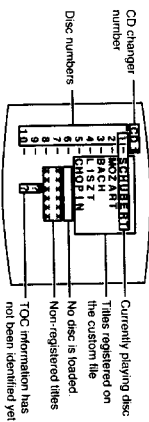


The titles of the discs inside and other information stored in the currently selected CD changer will be listed on the TV monitor.

Press the **FILE** button lightly during CD play.

FILE

Example: When the CD changer 1 is selected



- A blank space will be displayed if there is a disc number representing an empty slot in the disc magazine.
- If a title is registered on the custom file, that name will be displayed. If not, "*****" will be displayed in its place.
- "7" will be displayed if the TOC information of the disc has not been collated with the custom file.
- The name of the currently playing disc will be displayed in magenta.

Turning off the display

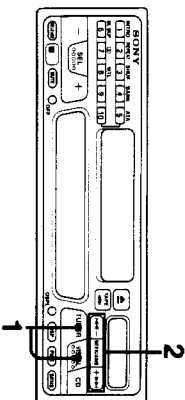
Press the **FILE** button once more.

CD Changer Operation

Note

- It may take some time before all the displays come onto the screen.
- The contents of the preset memory cannot be listed when the unit is in the simultaneous play mode (page 57).

A Tuning in a Station



TV reception can be made only when the optional TV tuner unit is connected to the optional TV monitor.

Searching for the Stations Automatically

Automatic Tuning

1 Select the desired band.

TUNER **FM/AM** or **MODE** → **F H**

2 Press either side of the SEEK button lightly.

For lower frequencies (lower frequency channels) For higher frequencies (higher frequency channels)

The scanning stops when a station is received. Press either side of the button repeatedly until the desired station is received.

Tuning in by Adjusting the Frequency (Channel) — Manual Tuning

Select the desired band, then press and hold either side of the SEEK button.

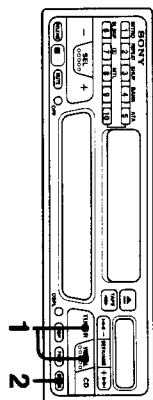
For lower frequencies (lower frequency channels) For higher frequencies (higher frequency channels)

Release the button when the desired station is received.

PREVENTING ACCIDENTS!

While you are driving, the use of the Automatic Tuning and the Memory Preset Tuning is recommended in favor of the Manual Tuning.

A Memorizing the Stations Automatically



The best receiving stations are automatically searched and memorized on each band (FM1, FM2, AM and TV). Up to 10 stations on each band can be stored on the preset number buttons 1 to 10 in order of frequency.

Memorizing the Stations Automatically

BTM (Best Tuning Memory) Function

1 Select the desired band.

TUNER **FM/AM** → **F H**

2 Press the SENS button for more than two seconds.

SENS

You can use the supplied relay commander or the optional wireless remote commander as well.

The receivable frequency ranges of the FM bands (FM1, FM2) are the same. Therefore, 20 stations can be memorized on FM.

Note

There may be cases where there are not enough receivable stations due to the lack of broadcasting signals. In such cases, the BTM function may stop without all the buttons being occupied with memories.

Note

During TV reception, the unit memorizes up to ten receivable stations in order of the channel numbers.

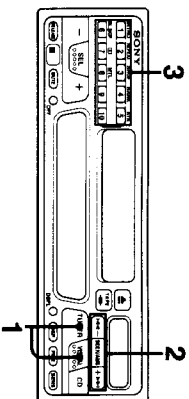
The BTM function

During radio reception, the BTM function searches all the receivable stations within the currently selected band and memorizes the ones in good receiving conditions in sequence from the lowest frequency.

How to memorize the stations on the preset number buttons

- When there is no preset number indicated on the main display window, all the preset number buttons set in the currently selected band will be filled with the memories.
- When there is a preset number indicated on the main display window, the unit will memorize the stations on the preset number buttons from the one currently being displayed. For example, when you choose FM2 and preset number 3 is being displayed, the operation will start from preset number 3 on FM2, and will stop at preset number 10 on FM2.

A Memorizing Only the Desired Stations



Up to 10 stations on each band (FM1, FM2, AM and TV) can be stored on the preset number buttons in order of your choice.

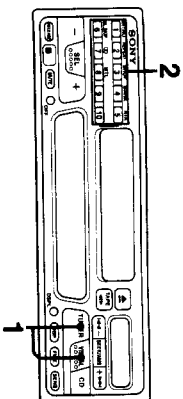
For example, to store a station on preset number button 1.

- 1** Select the desired band.
TUNE → F.M.
- 2** Tune in the station which you wish to store on the preset number button.
← PRESET 1 →
- 3** Keep the preset number button pressed for about two seconds until a beep tone is heard.
MEMORY 1 → 87.5
The number of the pressed preset number button now appears on the main display window.
Repeat the same procedure to store other stations.

You can use the supplied rotary commander or the optional wireless remote commander as well.

Each preset number button has only one memory location per band. If you wish to store another station on the same preset number button, the previously stored station will be erased.

A Receiving the Memorized Stations



- 1** Select the desired band.
TUNE → F.M.
- 2** Press the desired preset number button lightly.
MEMORY 1 → 10

You can use the supplied rotary commander or the optional wireless remote commander as well.

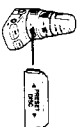
Notes

- There may be cases where even the stations which are stored in the memory will be lost due to weak signals in the vicinity of your car.
- If you keep pressing the preset number button for more than two seconds, the currently received station will be erased and the memory location will be empty.
- To receive the memorized station, make sure that the preset number button is pressed only lightly.

You can use the PRESET button on the optional wireless remote commander as well.

Receiving in Order the Stations Stored in the Memory — Preset Search Function

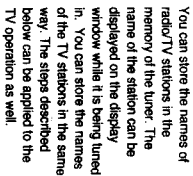
Rotate and hold the PRESET control on the rotary commander.



You can search the memorized stations on the preset number buttons in order.
Release the PRESET control when the desired station is located.

Radio/TV Reception

— Station Memo Function



of the Turner

- You can use the supplied rotary commander or the optional wireless remote commander as well.**

- character.**

- The flashing part moves to the next space on the right. Repeat steps 3 and 4 to enter the entire name. Up to eight characters can be used per name.

- FILE**

- Press the

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- ## Tune in another

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- the FILE button for more information returns to the normal radio

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the DSP, but



Notes

- If you press the SEL button when the eighth character (farthest right character) is flashing, the flashing part will move back to the first character (farthest left character).
- If you wish to put a blank space after a character, select the " " (under-bar).

Note

NOTE You can store up to 40* names, but if you try to enter more, the "FULL" indication will appear on the main display window and you will not be able to register them. You can register more names after erasing some of the existing names.

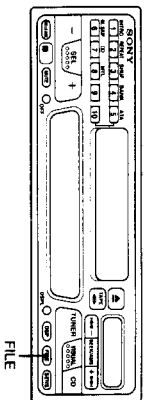
- If the optional TV tuner unit is connected, you can store the names of all the receivable TV stations as well.

The alternative method to

You can erase a name by selecting eight -'s (under-bars) as described in step 3 of "Storing the Station Names in the Memory of the Tuner" (page 32).

Radio/TV Reception

A Displaying the Contents of the Preset Memory on the TV Monitor (When the Optional TV Tuner Unit and TV Monitor are Connected)

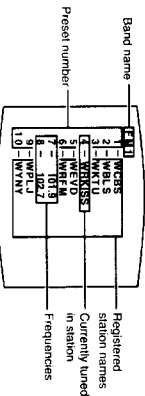


The contents of the preset memory stored on the currently received band is listed on the TV monitor.

Press the **FILE** button lightly during radio/TV reception.

FILE

Example: When receiving the FM1 band



- If the name of a station is registered, that name will be displayed. If the name of a station is not registered, the frequency of that station will be displayed.
- The name of the currently tuned in station will be displayed in magenta.

Turning off the display

During radio reception, press the **FILE** button once more. During TV reception, the list display on the TV monitor will automatically turn off after a few seconds.

Overview of the DSP Function

If the optional DSP (Digital Signal Processor) is connected, you can add some effects to the soundfield of the currently listening program source.

What is a Digital Signal Processor (DSP)?

The DSP can digitalize and process the audio signal with high speed thus enabling you to adjust the acoustic characteristics of the source sound without losing the sound quality. With the DSP unit you can control and adjust the direct, reflected and reverberated sound of the audio output according to your preference.

The DSP modes

- Surround menu select/effect level control mode
- DSP custom file register mode
- LP (listening position) adjust mode
- Sub woofer cutoff frequency select/volume control mode
- Bass adjust mode
- Treble adjust mode

Surround menu

There are ten preset surround modes available with this unit. You can select your desired surround mode to suit the source audio. These modes can simulate different soundfields so that you can enjoy the sensation of being close to the music source or being at a live concert etc.

HALL	Concert hall
UR2	Jazz club
DISCO	Disco with thick walls
THEATER	Theater/cinema
PARK	Big open space
LIVE	Live concert
OPERA	Opera house
CHURCH	Church/chapel with a lot of reverberation
STADIUM	Open-air concert in a stadium
CELLAR	Cellar with a lot of reverberation
DEFER	Normal mode without any DSP effects*

Notes

- When the optional digital signal processor XDP-450D and a graphic equalizer are connected, there may be cases where the reproduced sound becomes distorted when the output audio signal of the processor is fed back to the input. In this case, press the preset number button 8 while pressing the SEL button. The volume will be reduced and the distorted sound will be suppressed. To cancel the mode, press these buttons again.
- When the optional digital signal processor XDP-450D is connected, the output sound from the rear speakers may be automatically lowered.

Effect Level adjustment

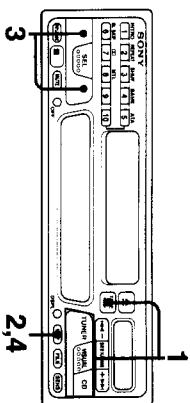
The balance, the level of the reflected sound and the resonance of the selected surround menu can be adjusted.

- The surround mode will be canceled. However, other preset levels of the DSP function will not be canceled.

DSP Function

Selecting the Surround Menu (When the Optional

Digital Signal Processor is Connected)



4 Press the DSP button for more than one second.

DSP

You can continue to listen with the selected surround menu.

Canceling the surround menu select mode

Press the DSP button lightly. (The "DSP" indication disappears.)

1 Select a program source from tapes, CD, radio or TV.

TAPES **TUNER** **CD**

2 Press the DSP button for more than one second to enter the surround menu select mode.

DSP → **- DEFER -** **CHURCH**

3 Select the desired mode with either side of the **CHURCH** button.

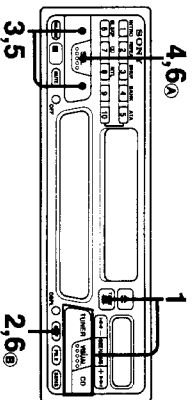
→ **HALL** → **JAZZ-DISCO** → **- DEFER -** **HALL** → **JAZZ**.

→ **CELLAR** → **STADIUM** → **CHURCH** → **- JAZZ -** **HALL** → **DEFER**.

If the "DEFER" mode is selected with the **CHURCH** button, the sound will be restored to the original state without any effects. (The "DSP" indication will disappear.)

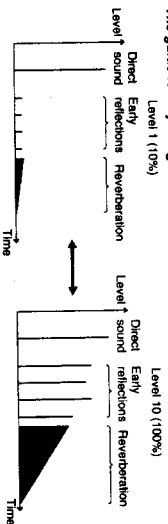
DSP Function

Selecting the Surround Menu



The adjustable range is from 0 to 10. The larger the figure, the more live-performance-like the sound will become.

The guide for adjusting the effect level



Adjusting the Effect Level

- 1 Select a program source from tape, CD, radio or TV.
- 2 Press the DSP button for more than one second to enter the surround menu select mode.
- 3 Select a desired surround menu with either side of the button.
- 4 Press the SEL button lightly to enter the effect level adjust mode.

Note
If the "DEFECT" mode is selected with the surround menu, the adjustment of the effect level cannot be made.

5 Press either side of the button to select the desired level.



6 A To continue to adjust the effect level of another surround menu.



B To cancel the effect level adjust mode



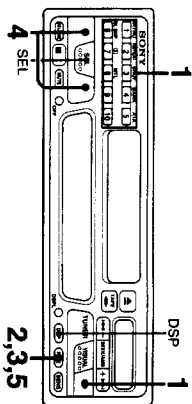
To stop the setting procedure
Press the DSP button for more than one second.

To change the effect level to the original (factory-set)
Press the SEL button for more than two seconds.

DSP Function

Registering the Surround Menu onto Discs

— DSP Custom File Function (With the Optional CD Changer(s) Connected)



Once you have registered the surround menu onto the discs, you can enjoy the same surround menu every time you play these discs.

Before registering the DSP custom file, make sure that you have put the titles onto the discs (page 22).

- 1 **Play any disc.**
FILE (Press for more than one second)
- 2 **Press and hold the FILE button for more than two seconds to enter the name edit mode.**
FILE Name edit mode
 If "....." appears on the main display window, put a title onto the disc by referring to "Displaying the title of Each Disc" on page 22.
- 3 **Press the FILE button lightly twice to enter the DSP file registering mode.**
FILE
- 4 **Select the desired mode with either side of the button.**
FILE **FILE**
 HALL-JAZZ-DISCO → DEFEN-HALL-JAZZ
 CELLAR-STADIUM-CHURCH → JAZZ-HALL-DEFEAT

You can register customized surround menu onto the maximum of 110 discs. See page 24 for more details. You can use the supplied rotary commander or the optional wireless remote commander as well.

- 5 **Press the FILE button for more than two seconds.**
FILE
 The unit enters the normal CD play mode.

Playing with the DSP Custom File Mode

Press the SEL button and DSP button simultaneously.



The "DSP" and "FILE" indications appear on the main display window. To return to the normal CD play mode, press both the buttons simultaneously once more.

Changing the registered surround menu

Select the disc whose surround mode you wish to alter and repeat steps 2 to 5.

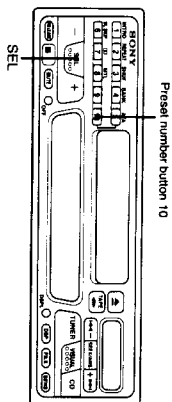
Erasing the registered surround menu

Select the DEFEAT mode in step 4 of "Registering the Surround Menu onto Discs".

If the DSP button is pressed during CD play with the DSP custom file function, the reproduced sound will become unprocessed.
 • If the surround menu is not registered, the "DSP" indication will not appear.

DSP Function

Listening with the Same Surround Mode Every Time — LSM (Last Surround Memory) Function



LSM (Last surround memory) function

This function memorizes the selected surround menu of each program source at all times. With this function, you can always listen to the same program source with the same preset surround menu even after changing the program source or turning the unit on afresh.

Playing with the LSM Function

Press and hold the SEL button and press the preset number button 10.



The "LSM" indication is displayed.

For example, if you listen to a disc in the "CHURCH" mode just after listening to a tape in the "HALL" mode, the next time you listen to a tape, it is automatically played in the "HALL" mode.

If you wish to cancel the LSM function, Press and hold the SEL button and then press the preset number button 10.

Adjusting the Soundfield Inside Your Car

By adjusting the followings, you can set up customized soundfields and tone quality inside your car.

- Listening position
- Sub-woofer's cutoff frequency and volume
- Bass and treble

Listening position adjustment

The time taken by the sound to reach the listener from each speaker can be adjusted. Even in an imperfect listening environment such as inside a car, it is possible to simulate the natural sound image so that a listener can feel as if he is sitting in the middle of the soundfield wherever he sits in the car.

Sub woofer's cutoff frequency/volume adjustment

To match the characteristics of the connected sub woofer(s), you can cut the unwanted high and middle frequency audio signal going into the sub woofer(s). The frequency at which the audio signal is cut off is called the cutoff frequency. By setting the cutoff frequency, the sub woofer(s) is (are) able to output clearer bass whose frequency range is lower than the selected cutoff frequency. Thus creating the sound image without the variance of the phases caused by input frequencies.

Bass/treble adjustment

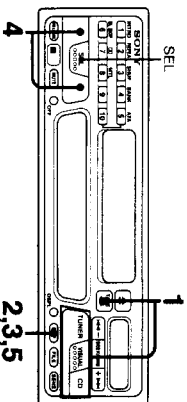
The volume can be adjusted by selecting the center frequencies of both the bass and treble sound to suit the acoustic characteristics inside your car.

Fader adjustment

When the optional digital signal processor XDP-US02 is connected, you can adjust the fader whether the DSP mode is on or off.

DSP Function

Adjusting the Soundfield Inside Your Car

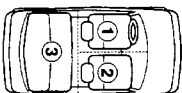
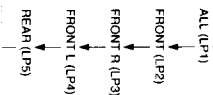


Selecting the Listening Positions

- 1 Select a program source from tape, CD, radio or TV.
- 2 Press the DSP button for more than one second to enter the DSP select/adjust mode.
- 3 Press the DSP button lightly to enter the listening position adjust mode.
- 4 Press either side of the button to select the desired position.
- 5 To cancel the listening position adjust mode Press the DSP button for more than one second

Even in an imperfect listening environment such as inside a car, it is possible to simulate a natural soundfield so that a listener can feel as if he is sitting in the middle of the soundfield whenever he sits in the car.

While adjusting the listening position, each time you press + or - the DSP button, the indication of the main (SEL) display window changes cyclically as follows:



Sub display window	Main display window	Center of soundfield
LP1	ALL	Normal setting (1)+(2)+(3)
LP2	FRONT	Front part (1)+(2)
LP3	FRONT R	Front right (2)
LP4	FRONT L	Front left (1)
LP5	REAR	Rear part (3)

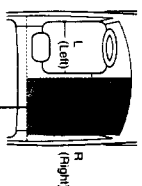
To set the listening position more specifically

- 1 Select the listening position in step 4 on page 44, then press the SEL button.
- 2 The unit enters the left and right balance adjust mode. Press either side of the button to set the center of the soundfield.
 -: moves toward L (left)
 +: moves toward R (right)
- 3 Press the SEL button.
- 4 The unit enters the front and rear balance adjust mode. Press either side of the button to set the center of the soundfield.
 -: moves toward F (front)
 +: moves toward R (rear)
- 5 Press the DSP button for more than one second to cancel the listening position adjust mode.

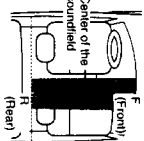
To stop the setting procedure
 Press the DSP button for more than one second.

To change the cutoff frequency to the original
 Press the SEL button for more than two seconds.

For example, to adjust the balance between left and right with the LP3 setting

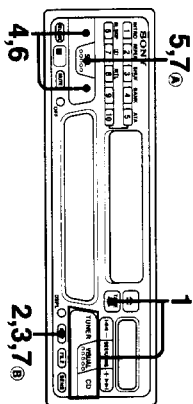


Center of the soundfield
 For example, when the center of the soundfield is moved toward L.



DSP Function

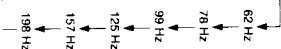
Adjusting the Soundfield Inside Your Car



Adjusting the Cutoff Frequency and Volume of the Sub Woofer

- 1** Select a program source from tape, CD, radio or TV.
- 2** Press the DSP button for more than one second to enter the DSP select/adjust mode.
- 3** Press the DSP button lightly to enter the cutoff frequency adjust mode.
- 4** Press either side of the button to select the desired cutoff frequency.

Each time you press a side of the button, the cutoff frequency changes cyclically as follows:



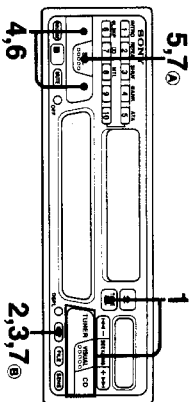
- 5** Press the SEL button lightly.
- 6** Press either side of the button to select a desired setting on the main display window.
- 7** **A** To change the cutoff frequency
Press the SEL button lightly.
The unit returns to the cutoff frequency adjust mode.
B To cancel the cutoff frequency adjust mode
Press the DSP button for more than one second.

To stop the setting procedure
Press the DSP button for more than one second.

To change the cutoff frequency to the original (factory-set) setting
Press the SEL button for more than two seconds.

DSP Function

Adjusting the Soundfield Inside Your Car

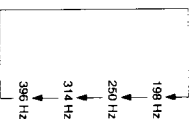


You can select the center frequencies you wish to adjust for the bass and treble respectively and boost or cut their levels.

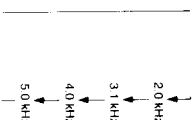
Adjusting the Bass and Treble

- 1** Select a program source from tape, CD, radio or TV.
- 2** Press the DSP button for more than one second to enter the DSP select/adjust mode.
 → - DEFERT -
- 3** Press the DSP button lightly to select the bass or treble adjust mode.
 → FREQ 25G Bass adjust mode
 → FREQ 40G Treble adjust mode
- 4** Press either side of the button to select the center frequency.
(The illustration below is that of the bass adjust mode.)
 → FREQ 314

Each time you press + side of the button, the center frequency for the bass sound adjustment changes cyclically as follows.



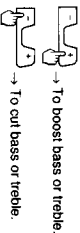
Each time you press + side of the button, the center frequency for the treble sound adjustment changes cyclically as follows.



5 Press the SEL button lightly.



6 Press either side of the button to select the desired level on the main display window.



7 A To change the center frequency.



Press the SEL button lightly.

The unit returns to the bass or treble adjust mode.

B To cancel the bass or treble adjust mode.

Press the DSP button for more than one second.

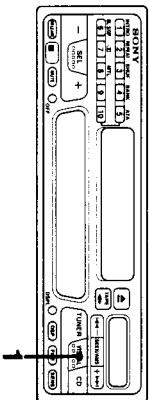


To stop the setting procedure
Press the DSP button for more than one second.

To change the bass or treble setting
Press the SEL button for more than two seconds.

DSP Function

Watching Video

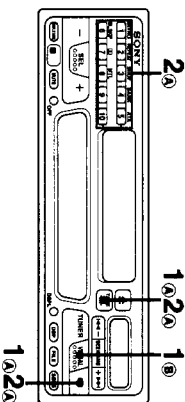


1 Press the **VISUAL** button to get the "VIDEO 1" indication.

You can only get the "VIDEO 2" indication if the VIDEO 2 terminal of the TV monitor is selected

2 Play back the video.

Watching TV or Video while Listening to CD or Tape — Simultaneous Play Function



1 There are two ways by which simultaneous play can be made.

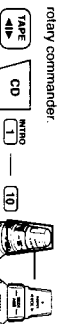
A During TV reception or video playback:
Press the **TAPE** or **CD** button for more than two seconds.

The sound from the TV or video is turned off and the sound from the CD or tape can be heard instead. However, you can continue to watch the picture on the monitor screen.

B During CD or tape playback:

Press the **TAPE** button for more than two seconds. The TV picture appears on the monitor and you can continue to listen to the sound from the CD or tape.

2 **A** To select a desired track:
Use the buttons on the main unit or the controls on the rotary commander.



MODE

B To select a desired TV picture or the channel:
Use the buttons on the optional remote commander.



If you do not have the optional wireless remote commander, select a desired TV picture or the channel in step 1(A) above, then press either the CD or TAPE button.

Note
The simultaneous play function will only work when you are listening to the radio.

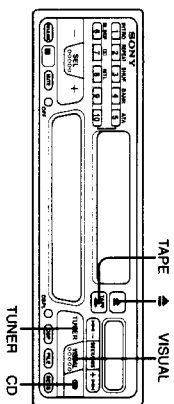
When the unit is in the simultaneous play mode, you can still listen to the sound from the TV or video through the TV or video plugged into the monitor.

Note

- The ATA function will not work when the unit is in the simultaneous play mode.
- The contents of the preset memories or CD information cannot be listed on the TV monitor when the unit is in the simultaneous play mode.
- If you wish to listen to tape playback, make sure that the tape deck is loaded with a cassette. If the deck is not loaded, the simultaneous play function will not work.
- When the unit is in the simultaneous play mode, CD and tape playback cannot be controlled by the optional remote commander.

Play Function
Watching Video/Simultaneous

Watching TV or Video While Listening to CD or Tape



Returning to the normal mode by canceling the simultaneous play mode

Use the buttons on the main unit or the optional remote commander.

To listen to a tape



(Press for more than two seconds.)

To listen to a CD



(Press for more than two seconds.)

To listen to the radio



To watch TV or video



(Press for more than two seconds.)

The simultaneous play mode is canceled and the unit returns to the TV reception or video playback mode in the following cases

- In the case where the button is pressed when the unit is in the simultaneous play mode with tape playback.
- In the case where the EJECT button on a CD changer is pressed when the unit is in the simultaneous play mode with CD play.

Note

You cannot cancel the simultaneous play mode with the relay commander.

Maintenance

Fuse Replacement

When replacing the fuse, be sure to use the one with the correct amperage which will be stated on the fuse case. Never use a fuse whose amperage rating exceeds the one supplied to the unit as this could cause a malfunction of the unit.

There are two fuses installed in this unit: one is a blade shaped fuse plugged into the back panel of the unit, the other is placed in the red power input lead.

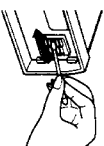
Warning

Use the specified amperage fuse. Use of a higher amperage fuse may cause serious damage.

Cleaning the Connectors

The unit may not function properly if the connectors between the unit and the front panel are contaminated with dirt. In order to prevent this from happening, open up the front panel by pressing the RELEASE button then detach it and clean the connectors from time to time.

Clean the connectors with a cotton swab as illustrated. Be sure to clean them with a horizontal motion. Never clean them vertically as this could damage the connecting points.

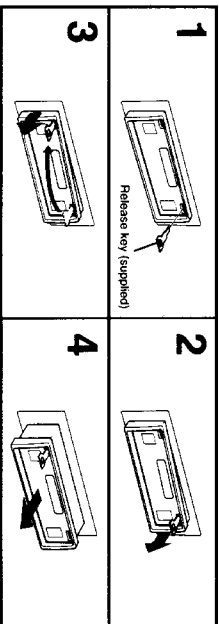


Main unit



Back of the front panel

Dismounting the Unit



Specifications

Cassette player section

Tape deck	4 track 2-channel stereo		
Wow and flutter	0.06 % (WMA/S)		
Frequency response	30 – 22,000 Hz		
Signal-to-noise ratio			
Cassette type	Dolby B NR	Dolby C NR	Dolby NR of
TYPE II, IV	67 dB	73 dB	61 dB
TYPE I	64 dB	70 dB	58 dB

Tuner section

Tuning range	87.5 – 107.9 MHz		
Antenna terminal	External antenna connector		
Intermediate frequency	455 kHz		
Sensitivity	8 dB		
Selectivity	75 dB at 400 kHz		
Signal-to-noise ratio	65 dB (stereo), 70 dB (mono)		
Harmonic distortion at 1 kHz	0.5 % (stereo), 0.3 % (mono)		
Separation	35 dB		
Frequency response	30 – 15,000 Hz		
AM	530 – 1,710 kHz		
Tuning range	530 – 1,710 kHz		
Antenna terminal	External antenna connector		
Intermediate frequency	10.71 MHz(455 kHz)		
Sensitivity	30 µV		

General

Base controls	Base: 18 dB at 100 Hz Tone: 18 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 186 × 57 × 163 mm (7 3/8 × 2 1/4 × 6 1/2 in.) (W/H/D) not incl. projecting parts and controls
Mourning dimension	Approx. 182 × 53 × 146 mm (7 1/4 × 2 1/8 × 5 5/8 in.) (W/H/D) not incl. projecting parts and controls


Mass	Approx. 1.1 kg (2 lb, 7 oz.)
Supplied accessories	Rotary commander (1 set) Mounting hardware (1 set) Front panel case (1) Wireless remote commander RMA-X36
Optional accessories	UNILINK cable (supplied with an RCA pin cord) RC-61 (1 m), RC-62 (2 m), RC-63 (3 m), RC-64 (5 m), RC-65 (6 m), CD charger CDX-U606, CDX-U404, CDX-U303, etc. TV tuner unit XT-U400V Source selector XA-U20, XA-U40 Digital signal processor XDP-U500

Design and specifications subject to change without notice.



Troubleshooting Guide

The following check will assist in the correction of most problems which you may encounter with your unit. Before going through the check list below, refer back to the connection and operating procedures.

General

Problem	Cause/Solution
No sound	• Adjust the volume with the + side of the  button. • Set the fader control to the center position on the 2-speaker system.
Indications do not appear on the main/sub display window.	Remove the front panel and clean the connectors. See "Cleaning the Connectors" of "Maintenance" 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.	• There is a noise in the space between tracks. • A blank space is too short (less than four seconds). • The  side is pressed immediately before the following tracks. • The  side 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/TV reception

Problem	Cause/Solution
Preset tuning is not possible.	• Memorize the correct frequency. • The broadcast is too weak.
Automatic tuning is not possible.	The broadcast is too weak. → Use the manual tuning.
The "ST" indication flashes.	• Tune in precisely. • The broadcast is too weak. → Press the SENS button to enter the MONO mode.

Disc play

Problem	Cause/Solution
Playback sound skips.	A dusty or defective disc.

Troubleshooting Guide

DSP operation

Problem	Cause/Solution
<ul style="list-style-type: none">• No sound.• Sound is too low.	When the optional XDP-U50D is connected, the volume of the rear speakers may be automatically lowered in order to maximize effect of the listening position adjustment. → Press the + side of the  button to adjust the balance.

Front panel

Problem	Cause/Solution
Indications do not appear on the main/sub display window.	Remove the front panel and clean the connectors. See "Cleaning the Connectors" of "Maintenance" for details.

Error displays (with the optional CD changer(s) connected)

The following indications will flash 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 changer.	Insert the disc magazine with discs into the CD changer.
NO DISC	No disc is inserted in the disc magazine.	Take out the magazine and insert the discs.
ERROR	The disc is dirty.	Clean the disc.
	The disc is inserted upside down.	Insert the disc correctly.
RESET	The CD changer cannot be operated because of some problem.	Press the reset button of the unit.

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