SONY

FM/AM Compact Disc Player

Operating Instructions US

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. CDX-C7850 Serial No. _____

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

CDX-C7850

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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.

CAUTION

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

Welcome !

Thank you for purchasing this Sony Compact Disc Player. This unit lets you enjoy a variety of features as well as either a supplied rotary commander or a supplied wireless remote.

In addition to the CD playback and radio operations, you can expand your system by connecting an optional CD / MD unit*[1]. When you operate this unit or connect an optional CD unit with the CD TEXT function, the CD TEXT information will appear in the display when you play a CD TEXT disc*[2].

*[1] *You can connect a CD changer, an MD changer.*
*[2] *A CD TEXT disc is an audio CD that includes information such as the disc name, artist name, and track names.*
These information is recorded on the disc.

Voice guide for safe driving

This unit has a voice guide function*. When the voice guide function is on, the unit gives vocalized comments on functions corresponding to the relevant button pushed. These comments can be vocalized in either English or French.

* *Some optional power amplifiers may cause a break at the beginning of vocalized comments. When you connect an optional MD changer, the sound from the first MD may continue for a short time even after the vocalized comments about the second MD are announced.*

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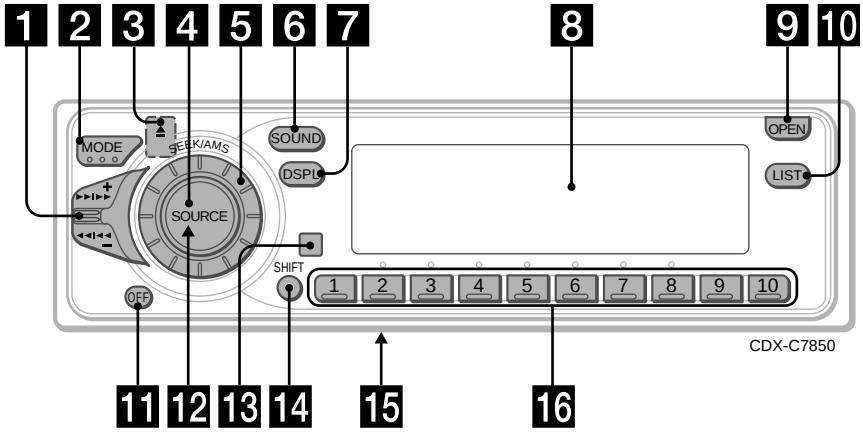
Location of controls



Refer to the listed pages for details.

1 **SEEK/AMS (seek/Automatic Music Sensor/manual search) control 9, 10, 11, 13, 20, 22, 25, 26, 27**

2 **MODE (band/unit select) button 12, 13, 19, 21, 24, 26**

3 **⏏ (eject) button (located on the front side of the unit hidden the front panel) 8**

4 **SOURCE (TUNER/CD/MD/TV) button 8, 12, 13, 18, 19, 21, 24, 26, 27, 28**

5 **Dial (volume/equalizer curve/listening position/subwoofer volume/cut-off frequency/bass/treble/left-right/rear-front control) 7, 14, 16, 23**

6 **SOUND button 16**

7 **DSPL (display mode change) button 8, 9, 13, 14, 19, 24, 25**

8 **Display window**

9 **OPEN button 6, 8, 30**

10 **LIST button**

Station Memo **14, 27**

Disc Memo **23, 24**

List-up **14, 25, 28**

11 **OFF button 6, 8**

12 **Reset button (located on the front side of the unit behind the front panel) 6**

13 **Receptor for the wireless remote**

14 **SHIFT button**

PLAY MODE **10, 11, 12, 13, 21, 22, 23, 25, 26**

REP **9, 20**

SET UP **7, 9, 17, 18, 19, 20**

SHUF **9, 20**

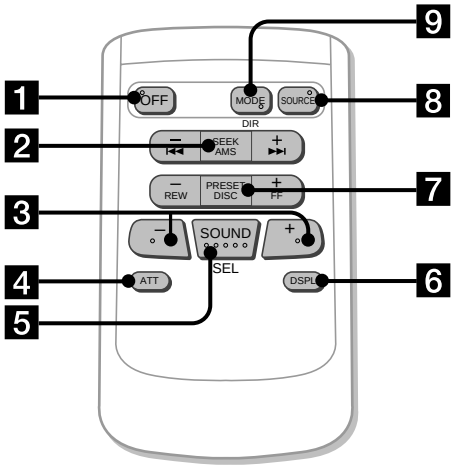
15 **POWER SELECT switch (located on the bottom of the unit)**
See “POWER SELECT switch” in the Installation / Connections manual.

16 **During radio reception:**
Number buttons 12, 13

During CD/MD playback:
Direct disc selection buttons 20

During TV reception:
Number buttons 27

Wireless remote (RM-X47)



The corresponding buttons of the wireless remote control the same functions as those on the unit.

1 **OFF button**

2 **SEEK/AMS button**

3 **(−) (+) buttons**

4 **ATT button**

5 **SOUND/SEL button**

6 **DSPL button**

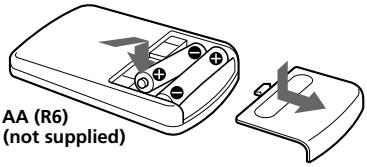
7 **PRESET/DISC button**
You cannot perform manual search and manual tuning with the remote.

8 **SOURCE button**

9 **MODE/DIR button**

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 CD is inserted to activate the unit first.

Installing the batteries (not supplied)



Two size AA (R6) batteries (not supplied)

Battery life is approx. six months although it depending on use.

Notes on batteries

To avoid damage from battery leakage and subsequent corrosion:

— insert the batteries by matching the "+" and "–" on the batteries to the "+" and "–" in the battery compartment.
— 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.

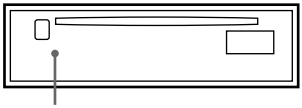
If any battery leakage occurs, replace the batteries with new ones after cleaning the battery compartment.

Notes on mounting

- *Do not install or leave the wireless remote 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 your car in direct sunlight, detach the wireless remote and place it in a location such as the glove-box, where it will not be subjected to direct sunlight.*
- *Before installing the wireless remote, be sure to check whether you can remote-control the system from the place where you intend to install the wireless remote.*

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Remove the front panel and press the reset button with a pointed object, such as a ball-point pen.



Reset button

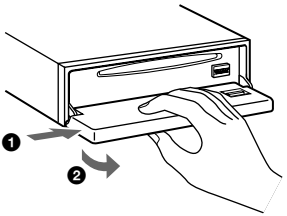
Notes
- *Pressing the reset button will erase the clock setting and some memorized functions.*
- *When you connect the power supply cord to the unit or reset the unit, wait for about 10 seconds before you insert a disc. If you insert a disc within these 10 seconds, the unit will not be reset, and you will have to press the reset button again.*

Detaching the front panel

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

1 Press (OFF).

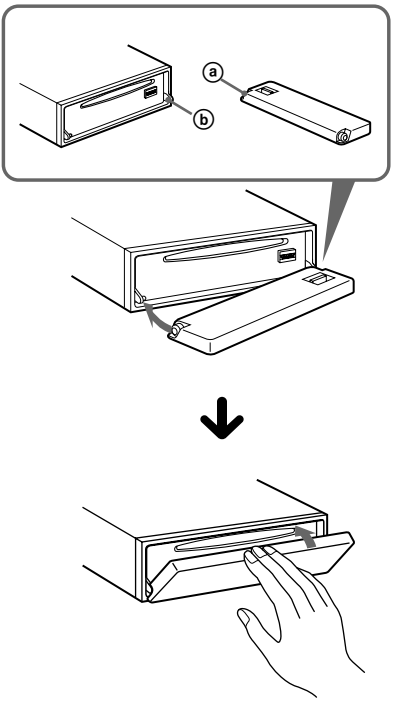
2 Press (OPEN), then slide the front panel to the right side, and pull out from the left side.



Notes
- *Be sure not to drop the panel when detaching it from the unit.*
- *If you detach the panel while the unit is still turned on, the power will turn off automatically to prevent the speakers from being damaged.*
- *When you carry the front panel with you, use the supplied front panel case.*

Attaching the front panel

Place the hole ⓐ of the front panel onto the spindle ⓑ 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 too hard against the unit when attaching it.*
- *Do not press too hard or put excessive pressure on the display window of the front panel.*
- *Do not expose the front panel to direct sunlight or 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 or where there may be a considerable rise in temperature.*

Caution alarm

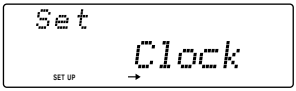
If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds (only when the POWER SELECT switch is set to the Ⓐ position).

Setting the clock

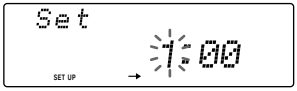
The clock uses a 12-hour digital indication.

Example: To set the clock to 10:08

1 Press (SHIFT), then press (3) (SET UP) repeatedly until "Clock" appears.

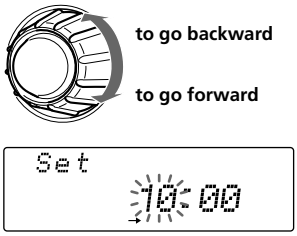


❶ Press (5) (→).

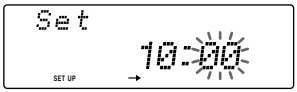


The hour indication flashes.

❷ Set the hour.

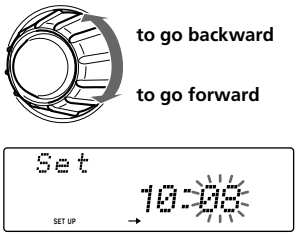


❸ Press (5) (→).

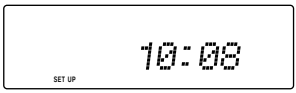


The minute indication flashs.

❹ Set the minute.



2 Press (SHIFT).



The clock starts.

3 Press (SHIFT).

After the clock setting is complete, the display returns to normal playback mode.

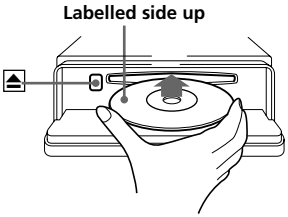
Note

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

CD Player

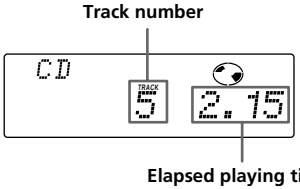
Listening to a CD

1 Press (OPEN) and insert the CD.
Playback starts automatically.



2 Close the front panel.

If a CD is already inserted, to start playback press (SOURCE) repeatedly until "CD" appears.

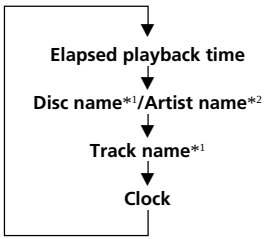


Note
To play back an 8 cm (3 in.) CD, use the optional Sony compact disc single adapter (CSA-8).

To	Press
Stop playback	(OFF)
Eject the CD	(OPEN) then ⏏

Changing the display item

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



*1 *If you inserted a non-CD TEXT disc, "NO D.Name" or "NO T.Name" appears in the display.*
*2 *If you play a CD TEXT disc, the artist name appears in the display after the disc name. (Only for CD TEXT discs with the artist name.)*

After if you select the desired item, the display will be automatically change to the Motion Display mode after a few seconds.
In the Motion Display mode, all the above items are scrolled in the display one by one in order.

Tip
The Motion Display mode can be turned off. (See "Changing the sound and display settings" on page 17).

You can label CD and CD TEXT discs with a personalized name using the disc memo function, refer to "Labeling a CD" (page 23). However, if you use personalized labels, they will always take priority over the original CD TEXT information when such information is displayed.

Tips
- *If the name of the CD TEXT disc is too long, you can scroll it across the display by pressing (SHIFT), then (2) (←).*
- *If you want to display the original CD TEXT information after labelling the CD TEXT disc with a personalized name, press (SHIFT) , then (5) (→).*

Automatically scrolling a disc name — Auto Scroll

If the disc name, artist name, or track name on a CD TEXT disc exceeds 10 characters and the Auto Scroll function is on, the following information will be automatically scrolled.

- *The disc name appears when the disc has changed (if the disc name is selected).*
- *The track name appears when the track has changed (if the track name is selected).*

If you press (DSPL) to change the display item, the disc or track name of the CD TEXT disc is scrolled automatically whether you set the function on or off.

1 During playback, press (SHIFT).

2 Press (3) (SET UP) repeatedly until "A.Scrl" appears.

3 Press (5) (→) to select "A.Scrl on."

4 Press (SHIFT).

To cancel Auto Scroll, select "A.Scrl off" in step 3 above.

Note

For some CD TEXT discs with extremely many characters, the following cases may happen:
— Some of the characters are not displayed.
— Auto Scroll does not work.

Locating a specific track — Automatic Music Sensor (AMS)

During playback, push the SEEK/AMS control up or down and release, for each track you want to skip.

To locate succeeding tracks

To locate preceding tracks

Locating a specific point in a track — Manual Search

During playback, push the SEEK/AMS control up or down and hold. Release when you have found the desired point.

To search forward

To search backward

Note

If "i...i... i...i..." or "...-...- ...-...-" appears in the display, that means you have reached the beginning or the end of the disc and you cannot go any further.

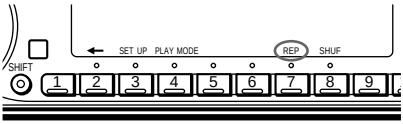
Playing a CD in various modes

You can play CDs in various modes:

- Repeat (Repeat Play) repeats the current track.
- Shuf (Shuffle Play) plays all the tracks in random order.

Playing tracks repeatedly — Repeat Play

1 During playback, press (SHIFT).
Every time you press (SHIFT), only the items you can select light up.



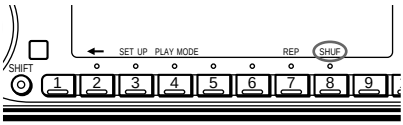
2 Press (7) (REP) repeatedly until "Repeat 1" appears.
Repeat Play starts.

3 Press (SHIFT).

To return to normal playback mode, select "Repeat off" in step 2 above.

Playing tracks in random order — Shuffle Play

1 During playback, press (SHIFT).



2 Press (8) (SHUF) repeatedly until "Shuf 1" appears.
Shuffle Play starts.

3 Press (SHIFT).

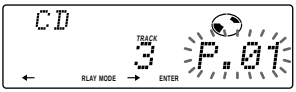
To return to normal playback mode, select "Shuf off" in step 2 above.

Creating a program

— CD Program Memory

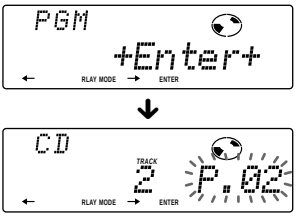
You can play the tracks in the order you want by making your own program. You can select up to 24 tracks for a program. You can store the programs in memory.

1 During CD playback, press (SHIFT), then press (4) (PLAY MODE) for two seconds.



2 Push the SEEK/AMS control up or down to select the track you want.

3 Press (6) (ENTER) momentarily.



4 To continue entering tracks, repeat steps 2 and 3.

5 When you finish selecting tracks, press (4) (PLAY MODE) for two seconds.

6 Press (SHIFT).

Notes

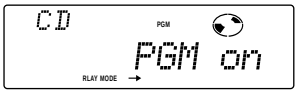
- *"*Wait*" appears in the display while the unit is reading the data.*
- *"*Mem Full*" appears in the display when you try to enter more than 24 tracks into a program.*

Playing the stored program

1 Press (SHIFT).

2 Press (4) (PLAY MODE) repeatedly until "PGM" appears.

3 Press (5) (→) repeatedly until "PGM on" appears.



Program Play starts.

4 Press (SHIFT).

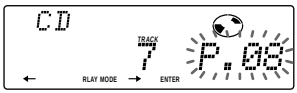
To return to normal playback mode, select "PGM off" in step 3 above.

Note

"Not ready" appears in the display if no track is stored in the program.

Erasing an entire program

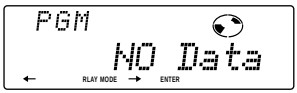
1 Press (SHIFT), then press (4) (PLAY MODE) for two seconds.



2 Press (2) (←) repeatedly until "DEL" appears.

To delete Program 2, press (5) (→) repeatedly until "PGM 2" appears.

3 Press (6) (ENTER) for two seconds.



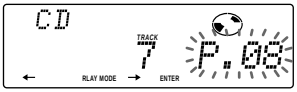
The entire program is erased.

4 When you finish erasing programs, press (4) (PLAY MODE) for two seconds.

5 Press (SHIFT).

Adding tracks to a program

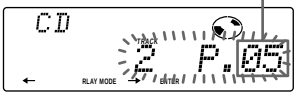
1 Press (SHIFT), then press (4) (PLAY MODE) for two seconds.



To select Program 2, press (5) (→) repeatedly until "P" appears.

2 Press (2) (←) or (5) (→) to select the track slot number where you want to insert a track.

Track slot number



3 Push the SEEK/AMS control up or down to select the track you want to insert.

4 Press (6) (ENTER) momentarily to enter the track.
The current track in that slot number and the succeeding tracks shift down.

5 To continue inserting tracks, repeat steps 2 through 4.

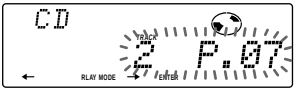
Note
*When a 24 slots have been filled, "*Mem Full*" appears in the display, and you cannot insert tracks.*

6 When you finish inserting tracks, press (4) (PLAY MODE) for two seconds.

7 Press (SHIFT).

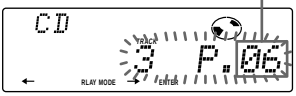
Erasing tracks in a program

1 Press (SHIFT), then press (4) (PLAY MODE) for two seconds.



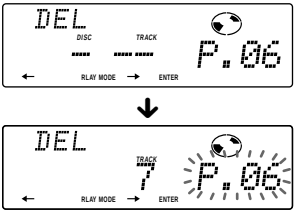
2 Press (2) (←) or (5) (→) to select the track you want to erase.

Track slot number



The track currently registered in slot 6.

3 Press (6) (ENTER) for two seconds.
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.



4 To continue erasing tracks, repeat steps 2 and 3.

5 When you finish erasing tracks, press (4) (PLAY MODE) for two seconds.

6 Press (SHIFT).

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 (FM1, FM2, and AM).

Caution

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

1 Press SOURCE repeatedly to select the tuner.

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

TUNER → CD → MD* →

** If the corresponding optional equipment is not connected, this item will not appears.*

2 Press MODE repeatedly to select the band.

Each time you press MODE, the band changes as follows:

FM1 → FM2 → AM →

3 Press SHIFT, then press 4 (PLAY MODE) repeatedly until "B.T.M" appears.

4 Press 5 (→).

The unit stores stations in the order of their frequencies on the number buttons.
A beep sounds when the setting is stored.

5 Press SHIFT.

Notes

- *The unit does not store stations with weak signals. If only a few stations are received, some number buttons will retain their former setting.*
- *When a number is already indicated in the display, the unit stores stations in order from the one currently displayed.*

Memorizing only the desired stations

You can preset up to 30 stations (10 each for FM1, FM2, and AM) in the order of your choice.

1 Press SOURCE repeatedly to select the tuner.

2 Press MODE repeatedly to select the band.

3 Push the SEEK/AMS control up or down to tune in the station that you want to store on the number button.

4 Press and hold the desired number button (1 to 10) until "MEM" appears.

The number button indication appears in the display.

Note

If you store a new station on a number button which already has a station registered, the previously stored station will be replaced by the new one.

Receiving the memorized stations

1 Press (SOURCE) repeatedly to select the tuner.

2 Press (MODE) repeatedly to select the band.

3 Press the number button (1 to 10) where the desired station is stored.

If you cannot tune in a preset station

Push and release the SEEK/AMS control up or down to search for the station (automatic tuning).
Scanning stops when the unit receives a station. Push the SEEK / AMS control up or down repeatedly until the desired station is received.

Note
If the automatic tuning stops too frequently, press (SHIFT), then press 4 (PLAY MODE) repeatedly until "Local" (local seek mode) is displayed. Then press 5 (→) to select "Local on." Press (SHIFT). 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, push the SEEK/AMS control up or down and hold until the desired frequency appears (manual tuning).

If FM stereo reception is poor — Monaural Mode

1 During radio reception, press (SHIFT), then press 4 (PLAY MODE) repeatedly until "Mono" appears.

2 Press 5 (→) repeatedly until "Mono on" appears.
The sound improves, but becomes monaural ("ST" disappears).

3 Press (SHIFT).

To return to normal mode, select "Mono off" in step 2 above.

If interference occurs during FM reception

If there is interference from neighboring stations, follow the steps below and select "Narrow". If interference is not a problem, select "Wide" to maximize signal reception and improve sound quality or "IF Auto "to switch between "Narrow" and "Wide" automatically.

1 Press (SHIFT) during FM reception.

2 Press 4 (PLAY MODE) repeatedly until "IF Auto" appears.

3 Press 5 (→) repeatedly to select desired setting.

4 Press (SHIFT).

Changing the display item

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

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

After if you select the desired item, the display will be automatically change to the Motion Display mode after a few seconds.
In the Motion Display mode, all the above items are scrolled in the display one by one in order.

Tip
The Motion Display mode can be turned off. (See "Changing the sound and display settings" on page 17).

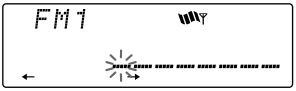
Storing the station names
— Station Memo

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

Storing the station names

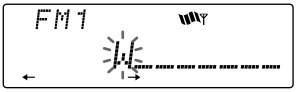
1 **Tune in a station whose name you want to store.**

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



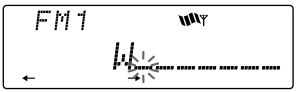
3 **Enter the characters.**

❶ **Rotate the dial clockwise to select the desired characters.**
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → – → * → / → \ → > → < → . → _)



If you rotate the dial counterclockwise, the characters appear in the reverse order.
If you want to put a blank space between characters, select "_" (under-bar).

❷ **Press (5) (→) after locating the desired character.**
The flashing cursor moves to the next space.



If you press (2) (←), the flashing cursor moves to the left.

❸ **Repeat steps ❶ and ❷ to enter the entire name.**

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

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

Displaying the station name

Press (DSPL) during radio reception.

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

Station name* → Frequency → Clock → (back to Station name*)

** 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.**
The station name appears in the display.

3 **Rotate the dial to select the name you want to erase.**

4 **Press (6) (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 normal radio reception mode.

Locating a station by name — List-up

1 **Press (LIST).**
The name assigned to the current station appears in the display.

2 **Press (LIST) repeatedly until you find the desired station.**

3 **Press (6) (ENTER) to tune in the desired station.**

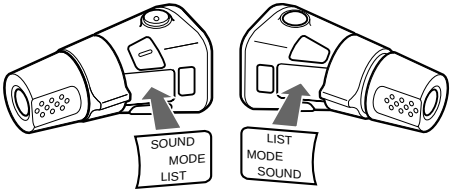
Note
After the station name or frequency has been displayed for five seconds, the display goes back to normal mode. To turn off the display, press (DSPL).

Other Functions

You can also control an optional CD or MD unit, or equalizer preamplifier with the rotary commander.

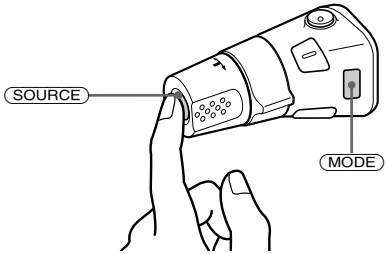
Labelling the rotary commander

Depending on how you mount the rotary commander, attach the appropriate label as shown in the illustration below.



Using the rotary commander

By pressing buttons (the SOURCE and MODE buttons)



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

TUNER → CD → MD* → TV*

** If the corresponding optional equipment is not connected, this item will not appears.*

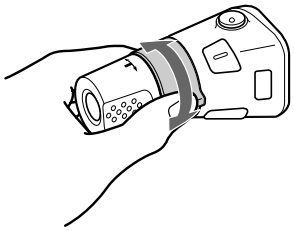
Pressing MODE changes the operation in the following ways;

- **Tuner: FM1 → FM2 → AM**
- **CD unit: CD1 → CD2 → …**
- **MD unit: MD1 → MD2 → …**
- **TV/Video: TV → Video1 → Video2 → …**

Tip

When the POWER SELECT switch is set to position B, you can turn on this unit by pressing SOURCE on the rotary commander.

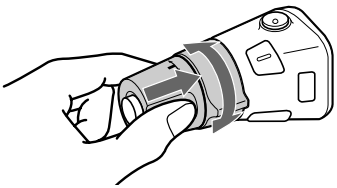
By rotating the control (the SEEK/AMS control)



Rotate the control and release it to:

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

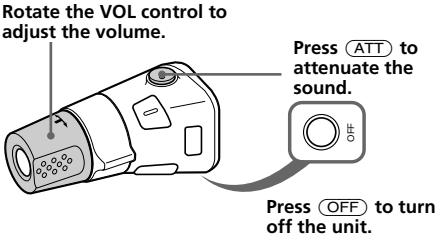
By pushing in and rotating the control (the PRESET/DISC control)

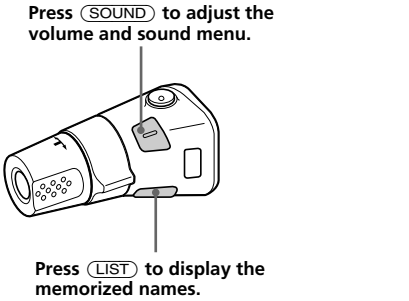


Push in and rotate the control to:

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

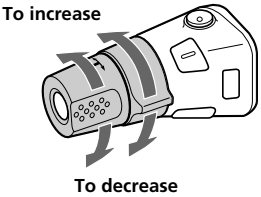
Other operations



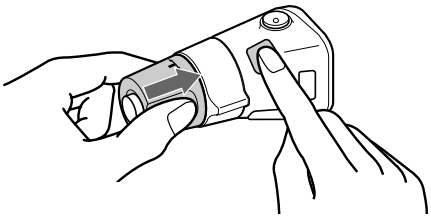


Changing the operative direction

The operative direction of controls is factory-set as shown below.



If you need to mount the rotary commander on the right-hand side of the steering column, you can reverse the operative direction.



Press (SOUND) for two seconds while pushing the VOL control.

Tip

You can also change the operative direction of these controls with the unit (see "Changing the sound and display settings" on page 17).

Adjusting the sound characteristics

You can adjust the equalizer curve, listening position, cut-off frequency, bass, treble, balance and fader.
You can store the bass and treble levels independently for each source.

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

VOL (volume) → EQ* (equalizer curve) → POS* (listening position) → CNW* (crossover network) → SUB (subwoofer volume) → BAS (bass) → TRE (treble) → BAL (left-right) → FAD (rear-front)

* *If the corresponding optional equipment is not connected, this item will not appears.*

2 Adjust the selected item by rotating the dial.

Adjust within three seconds after selecting the item. (After three seconds, the dial function reverts the volume control.)

Attenuating the sound

Press (ATT) on the supplied rotary commander or the supplied wireless remote.

"ATT on" lights up for a second.

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

Tip

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

Changing the sound and display settings

The following items can be set:

- Clock (page 7).
- D.Info (Dual Information)*1 – to display the clock and the play mode simultaneously (on) or to display the information alternately (off).
- Amber / Green – to change the illumination color to amber or green.
- Dimmer to – change the brightness of the display.
  - — Select “Auto” to dim the display only when you turn the interior lights on.
  - — Select “on” to dim the display.
  - — Select “off” to deactivate Dimmer.
- Contrast – to adjust the contrast if the indications in the display are not recognizable because of the unit‘s installed position.
- Voice guide*1 function for vocalized comments.
  - — Select “Voice 1” to minimize the volume of the guide.
  - — Select “Voice 2” to be louder the volume than “Voice 1.”
  - — Select “Voice 3” to maximize the volume of the guide.
  - — Select “Voice off” to deactivate Voice guide.
- Beep – to turn the beep sounds on or off.
- RM (Rotary Commander) – to change the operative direction of the controls of the rotary commander.
  - — Select “norm” to use the rotary commander in the factory-set position.
  - — Select “rev” when you mount the rotary commander on the right-hand side of the steering column.
- L.out (Line output)*2 (page 18).
- Loud (Loudness)*1 – to enjoy bass and treble even at low volumes. The bass and treble will be reinforced.
- LPF (Low Pass Filter)*1.
- M.dspl (Motion Display) – to turn the motion display to 1, 2, or off.
- English / French*1 – to change the vocalized comments of the voice guide to English or French.
- A.Scrl (Auto Scroll)*1 (page 9, 19).

1 Press SHIFT.

2 Press 3 (SET UP) repeatedly until the desired item appears.

Each time you press 3 (SET UP), the item changes as follows:

Clock → D.Info*1 → Amber/Green → Dimmer → Contrast → Voice*1 → Beep → RM → L.out*2 → Loud*1 → LPF*1 → M.dspl → English/French*1 → A.Scrl*1

*1 *When the radio is off, or when no CD, or MD is playing this item will not appear.*

*2 *When the optional equalizer preamplifier is not connected, this item will not appear.*

3 Press 5 (→) to select the desired setting (Example: on or off).

For the “Contrast” setting, pressing 5 (→) makes the contrast higher, and pressing 2 (←) makes the contrast lower.

4 Press SHIFT.

After the mode setting is complete, the display returns to normal playback mode.

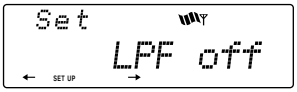
Adjusting the frequency of the subwoofer(s)

To match the characteristics of the connected subwoofer(s), you can cut out the unwanted high and middle frequency signals entering the subwoofer(s). By setting the cut-off frequency, the subwoofer(s) will output only low frequency signals so you can get a clearer sound image.

1 Press (SOURCE) to select a source (radio, CD or MD).

2 Press (SHIFT), then press (3) (SET UP) repeatedly until "LPF" appears.

3 Press (5) (→) or (2) (←) repeatedly to select desired setting.



Each time you press (5) (→) or (2) (←), the cut-off frequency in the display changes as follows:

LPF off ↔ LPF 80 Hz ↔ LPF 120 Hz

4 Press (SHIFT).

When the frequency setting is complete, the display returns to the normal playback mode.

Adjusting the sound and frequency of the equalizer

This unit can also control an optional equalizer preamplifier.
This lets you add some effects to the sound field of the currently selected source.

For details, refer to the instructions manual supplied with the equalizer preamplifier.

Note

If you connect the optional digital preamplifier XDP-210EQ, the voice guide function will not work.

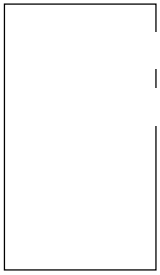
Changing the line output level

You can change the line output level if you hear distortion or other noise.
When the optional equalizer preamplifier is connected, you can set this function.

1 Press (SHIFT), then press (3) (SET UP) until "L.out" appears.

2 Press (5) (→) to select the desired setting "L.out Hi" or "L.out Lo."

3 Press (SHIFT).



Locating a specific track — Automatic Music Sensor (AMS)

During playback, push the SEEK/AMS control up or down and release for each track you want to skip.

To locate succeeding tracks

To locate preceding tracks

Locating a specific point in a track — Manual Search

During playback, push the SEEK/AMS control up or down and hold. Release when you have found the desired point.

To search forward

To search backward

Locating a disc by disc number — Direct Disc Selection

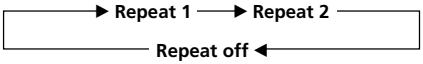
Press the number button that corresponds with the desired disc number.
The desired disc in the current unit begins playback.

Playing tracks repeatedly — Repeat Play

You can select:
- Repeat 1 – to repeat a track.
- Repeat 2 – to repeat a disc.

1 **During playback, press SHIFT.**

2 **Press 7 (REP) repeatedly until the desired setting appears.**



Repeat Play starts.

3 **Press SHIFT.**

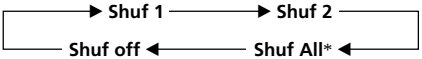
To return to normal playback mode, select "Repeat off" in step 2 above.

Playing tracks in random order — Shuffle Play

You can select:
- Shuf 1 – to play the tracks on the current disc in random order.
- Shuf 2 – to play the tracks in the current unit in random order.
- Shuf All – to play all the tracks in all the units in random order.

1 **During playback, press SHIFT.**

2 **Press 8 (SHUF) repeatedly until the desired setting appears.**



Shuffle Play starts.

* *"Shuf All" is available for CD changer(s) only.*

3 **Press SHIFT.**

To return to normal playback mode, select "Shuf off" in step 2 above.

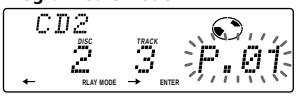
Creating a program

— Program Memory (For a CD/MD unit with the program memory function)

You can play tracks in the order you want by creating and storing programs in the unit's memory. You can select up to 24 tracks for a program. You can store the programs in memory.

1 During CD playback, press (SHIFT), then press (4) (PLAY MODE) for two seconds.

Program edit mode



If you have labelled the disc, the bank edit mode appears. Press (4) (PLAY MODE) to display "P" above.

2 Select the track you want.

❶ Press (SOURCE) repeatedly to select CD or MD.

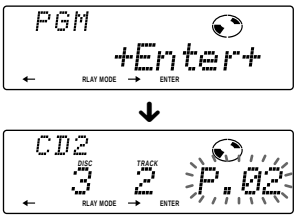
❷ Press (MODE) repeatedly to select the unit.

❸ Press (SHIFT), then press the number button to select the disc.

❹ Press (SHIFT).

❺ Push the SEEK/AMS control up or down to select the track.

3 Press (6) (ENTER).



4 To continue entering tracks, repeat steps 2 and 3.

5 When you finish entering tracks, press (4) (PLAY MODE) for two seconds.

6 Press (SHIFT).

Notes

- *"*Wait*" appears in the display while the unit is reading the data, or when a disc has not been put into the unit.*
- *"*Mem Full*" appears in the display when you try to enter more than 24 tracks into a program.*

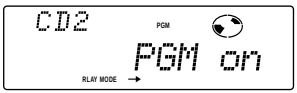
Playing the stored program

Changing the disc order in the unit will not affect program memory play.

1 Press (SHIFT).

2 Press (4) (PLAY MODE) repeatedly until "PGM" appears.

3 Press (5) (→) repeatedly until "PGM on" appears.



Program Play starts.

4 Press (SHIFT).

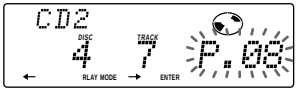
To return to normal playback mode, select "PGM off" in step 3 above.

Notes

- *If you press a number button during program memory play, program memory play is interrupted, and playback of the selected disc starts.*
- *"NO Data" appears in the display if no track is stored in the program.*
- *If a track stored in the program memory is not in the disc magazine, the track will be skipped.*
- *When the disc magazine contains no tracks stored in the program memory, or when the program information has not been loaded yet, "Not ready" appears.*

Erasing an entire program

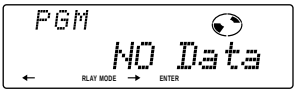
1 Press (SHIFT), then press (4) (PLAY MODE) for two seconds.



If you have labelled the disc, the bank edit mode appears. Press (4) (PLAY MODE) to display "P" above.

2 Press (2) (←) repeatedly until "DEL" appears.

3 Press (6) (ENTER) for two seconds.



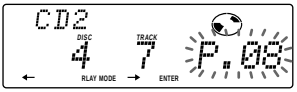
The entire program is erased.

4 When you finish erasing programs, press (4) (PLAY MODE) for two seconds.

5 Press (SHIFT).

Adding tracks to a program

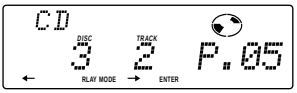
1 Press (SHIFT), then press (4) (PLAY MODE) for two seconds.



If you have labelled the disc, the bank edit mode appears. Press (4) (PLAY MODE) to display "P" above.

2 Press (2) (←) or (5) (→) to select the track slot number where you want to insert a track.

Track slot number



3 Push the SEEK/AMS control up or down to select the track you want to insert.

4 Press (6) (ENTER) to enter the track.
The current track is inserted in that slot number and the succeeding tracks shift down.
To continue inserting tracks, repeat steps 2 through 4.

Note
*When a 24 slots have been filled, "*Mem Full*" appears in the display, and you cannot insert more tracks.*

5 When you finish inserting tracks, press (4) (PLAY MODE) for two seconds.

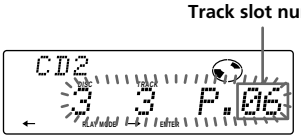
6 Press (SHIFT).

Erasing tracks in a program

1 Press (SHIFT), then press (4) (PLAY MODE) for two seconds.

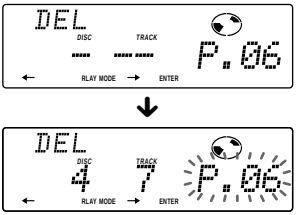
If you have labelled the disc, the bank edit mode appears. Press (4) (PLAY MODE) to display "P" above.

2 Press (2) (←) or (5) (→) to select the track you want to erase.



The track currently registered in slot 6.

3 Press (6) (ENTER) for two seconds.
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.



4 To continue erasing tracks, repeat steps 2 and 3.

5 When you finish erasing tracks, press (4) (PLAY MODE) for two seconds.

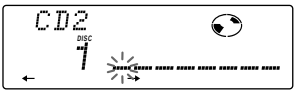
6 Press (SHIFT).

Labeling a CD

— Disc Memo (For a CD unit with the custom file function)

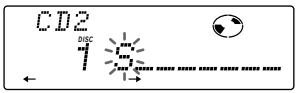
You can label each disc with a personalized name. You can enter up to eight characters for a disc. If you label a CD, you can locate the disc by name (page 25) and select specific tracks for playback (page 25).

1 During CD playback press (LIST) for two seconds.



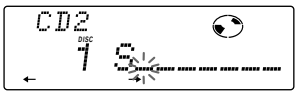
2 Enter the characters.

❶ Rotate the dial clockwise to select the desired characters.
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → – → * → / → \ → > → < → . → _)



If you rotate the dial counterclockwise, the characters appear in the reverse order.
If you want to put a blank space between characters, select "_" (under-bar).

❷ Press (5) (→) after locating the desired character.
The flashing cursor moves to the next space.



If you press (2) (←), the flashing cursor moves to the left.

❸ Repeat steps ❶ and ❷ to enter the entire name.

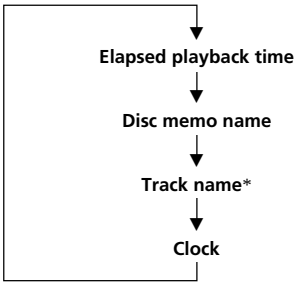
3 To return to normal CD playback mode, press (LIST) for two seconds.

Tip
To erase or correct a name enter "_" (under-bar) for each character.

Displaying the disc memo name

Press (DSPL) during CD or CD TEXT disc playback.

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



* *If you connect an optional CD unit with the CD TEXT function, the CD TEXT information will appear in the display when you playback a CD TEXT disc.*

After if you select the desired item, the display will be automatically change to the Motion Display mode after a few seconds.
In the Motion Display mode, all the above items are scrolled in the display one by one in order.

Tip
The Motion Display mode can be turned off. (See "Changing the sound and display settings" on page 18).

Erasing the disc memo

1 Press (SOURCE) repeatedly to select CD.

2 Press (MODE) repeatedly to select the CD unit.

3 Press (LIST) for two seconds.

4 Press (DSPL) for two seconds.

5 Rotate the dial to select the name you want to erase.

6 Press (6) (ENTER) for two seconds.
The name is erased.
Repeat steps 5 and 6 if you want to erase other names.

7 Press (LIST) for two seconds.
The unit returns to normal CD playback mode.

Note
When the personalized label is erased, the original CD TEXT information will appear in the display.

Locating a disc by name

— List-up (For a CD unit with the custom file function or MD unit)

You can use this function for discs that have been assigned a custom name. For more information on disc names, refer to “Labeling a CD” (page 23).

1 During CD playback press (LIST).
The name assigned to the current disc appears in the display.

When you assign a disc memo label to a CD TEXT disc, it takes priority over the original CD TEXT information.

2 Press (LIST) repeatedly until you find the desired disc.

3 Press (6) (ENTER) to play back the disc.

Notes

- *After a disc name has been displayed for five seconds, the display returns to normal playback mode. To turn off the display, press (DSPL).*
- *The track names are not displayed during MD or CD TEXT disc 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, “?” appears in the display. To load the disc, first press the number button, then choose the disc that has not been loaded.*
- *The information appears only in upper case. There are also some letters which cannot be displayed (during MD or CD TEXT disc playback).*

Playing 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 CD playback, press (SHIFT), then press (4) (PLAY MODE) repeatedly until “Bank” appears.

2 Press (5) (→) to repeatedly until the desired setting appears.

→ Bank on → Bank inv → Bank off →

Playback starts from the track following the current one.

3 Press (SHIFT).

To return to normal playing mode, select “Bank off“ in step 2 above.

TV/Video

You can connect an optional TV tuner and TV monitor with this unit.

Watching the TV

1 Press (SOURCE) repeatedly until “TV” appears.

2 Push the SEEK/AMS control up or down to select the desired TV band.

Watching a video

1 Press (SOURCE) repeatedly until “TV” appears.

2 Press (MODE) repeatedly to select “Video 1.”
Play back the video.

Note
“Video 2” appears if the VIDEO 2 terminal of the TV monitor is selected.

Memorizing TV channels automatically

The unit selects the TV channels with the strongest signals and memorizes them in the order of their frequency.

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

1 Press (SOURCE) repeatedly until “TV” appears.

2 Press (SHIFT), then press (4) (PLAY MODE) repeatedly until “Auto mem” appears.

3 Press (5) (→).
The unit stores TV channels in the order of their frequencies on the number buttons. A beep sound when the setting is stored.

4 Press (SHIFT).

Notes
- *The unit does not store TV channels with weak signals. If only a few TV channels can be received, some number buttons will remain empty.*
- *When a preset number is indicated in the display, the unit starts storing TV channels from the one currently displayed.*

Memorizing only the desired TV channels

You can store up to 10 channels on the number buttons in the order of your choice.

1 Press (SOURCE) repeatedly until "TV" appears.

2 Push the SEEK/AMS control up or down to tune in the TV program you want to store on the number button.

3 Press and hold the desired number button ((1) to (10)) until you hear a beep tone.
The number button indication appears in the display.

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

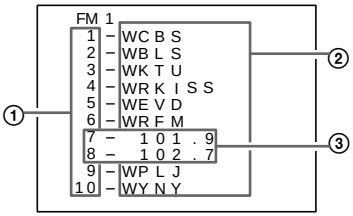
Storing the TV channel names

Follow the steps in "Storing the station names" (page 14).

Displaying the TV or radio station names

Press (LIST) momentarily during TV or radio reception.

Example: When receiving the FM1 band



① Preset number
② Stored station names
③ Frequencies*

* *If the name of a station is not stored, the frequency of that station will be displayed instead.*

Notes
- *It may take some time before all indications appear in the display.*
- *The TV monitor does not appear during list display.*
- *The contents of the preset memory cannot be listed when the unit is in the simultaneous play mode (page 28).*

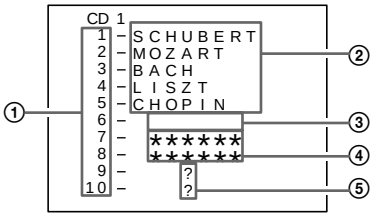
Turning off the display

During radio reception, press (LIST) again.
During TV reception, the list display on the TV monitor will automatically turn off after a few seconds.

Displaying the information stored on discs

Press (LIST) during CD/MD playback.

Example: When CD unit 1 is selected.



① Disc numbers
② Titles stored as custom files
③ No disc is loaded*1
④ No stored titles*2
⑤ TOC information has not been identified yet*3

*1 *A blank space is displayed next to a disc numbers representing empty slots in the disc magazine.*
*2 *If a title is not registered in the custom file, "******" is displayed.*
*3 *If the disc information has not been read yet, "?" is displayed.*

Notes
- *It may take some time until all indications appear in the display.*
- *The TV program does not appear during list display.*
- *The contents of the preset memory cannot be listed when the unit is in the simultaneous play mode.*

Turning off the display

Press (LIST) again.

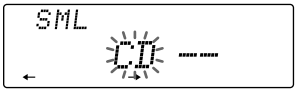
Note
Press (LIST) twice when you connect the MD unit(s).

Watching the TV or video while listening to a CD or MD — Simultaneous Play

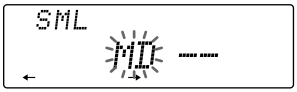
The simultaneous play function does not work while you are listening to the radio.

1 Press (SOURCE) for two seconds.

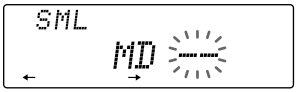
2 Press (2) (←).



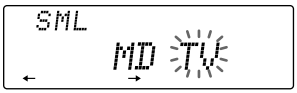
3 Press (SOURCE) repeatedly to select a CD or MD.



4 Press (5) (→).



5 Press (SOURCE) repeatedly to select a TV or video.



6 Press (SOURCE) for two seconds.
Simultaneous Play starts.

If you are already watching the TV or video and want to begin listening to a CD or MD as well follow the same above steps except press (5) (→) in step 2 and press (2) (←) in step 4.

Returning to normal mode

To cancel the CD or MD, follow the steps above and select "– –" in step 3.

To cancel the TV or video, follow the steps above and select "– –" in step 5.

Note
If you press the EJECT button on a CD/MD unit while the unit is in simultaneous play mode, Simultaneous Play is canceled.

Additional Information

Precautions

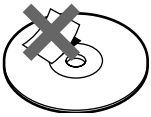
- If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the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

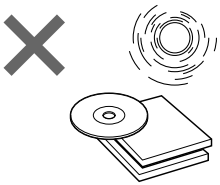
Notes on handling CDs

A dirty or defective disc may cause sound dropouts while playing. To enjoy optimum sound, handle the disc as follows.
Handle the disc by its edge. To keep the disc clean, do not touch the surface.

Do not stick paper or tape on the labelled surface.



Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in the temperature inside the car.



Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the center out.
Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray intended for analog discs.

Note on moisture condensation

On a rainy day or in a very damp area, moisture may condense on the lenses inside the CD player. Should this occur, the unit will not operate properly. In this case, remove the disc and wait for about an hour until the moisture evaporates.

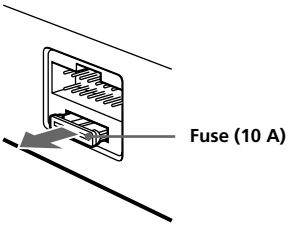
When you play 8 cm (3 in.) CDs

Use the optional Sony compact disc single adapter (CSA-8) to protect the CD player from being damaged.

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.

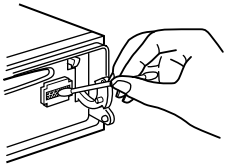


Warning

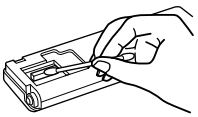
Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

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.



Main unit



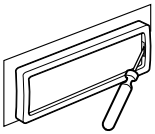
Back of the front panel

Notes

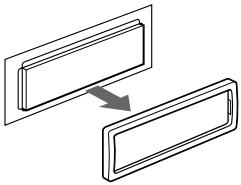
- *For safety, turn off the engine before cleaning the connectors and remove the key from the ignition switch.*
- *Never touch the connectors directly with your fingers or any metal device.*

Dismounting the unit

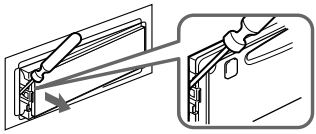
1 Press the clip inside the front cover with a thin screwdriver, and lever the front cover free.



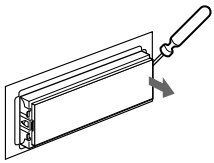
2 Repeat step 1 on the left side.
The front cover is removed.



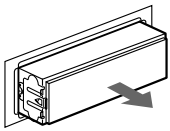
3 Use a thin screwdriver to push in the clip on the left side of the unit, then pull out the left side of the unit until the catch clears the mounting.



4 Repeat step 3 on the right side.



5 Slide the unit out of the mounting.



Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

19 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

CD player section

System	Compact disc digital audio system
Signal-to-noise ratio	99 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser output power	Less than 44.6 µW*

* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.*

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 50 dB at 200 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	
	0.7 % (stereo), 0.4 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

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	45 W × 4 (at 4 ohms)

General

Outputs	Line outputs (3) Power antenna relay control lead Power amplifier control lead Telephone ATT control lead Illumination 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. 178 × 50 × 182 mm ($7\frac{1}{8} \times 2 \times 7\frac{1}{4}$ in.) (w / h / d)
Mounting dimensions	Approx. 182 × 53 × 163 mm ($7\frac{1}{4} \times 2\frac{1}{8} \times 6\frac{1}{2}$ in.) (w / h / d)
Mass	Approx. 1.4 kg (3 lb. 1 oz.)
Supplied accessories	Rotary commander (1) Wireless remote (1) Parts for installation and connections (1 set) Front panel case (1)
Optional accessories	BUS cable (supplied with an RCA pin cord) RC-61 (1 m), RC-62 (2 m) Compact disc single adapter CSA-8
Optional equipment	CD changer (10 discs) CDX-828, CDX-727 MD changer (6 discs) MDX-65 Other CD / MD changers with the Sony-BUS system Digital equalizer preamplifier XDP-210EQ Source selector XA-C30 TV tuner XT-40V, etc.

Design and specifications are subject to change without notice.

Troubleshooting guide

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

General

Problem	Cause/Solution
No sound.	• Cancel the ATT function. • Set the fader control to the center position for two-speaker systems. • Rotate the dial in a clockwise direction to adjust the volume.
The contents of the memory have been erased.	• The power cord or battery has been disconnected. • The reset button was 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 30) for details.

CD/MD playback

Problem	Cause/Solution
A disc cannot be loaded.	• Another CD is already loaded. • The CD is forcibly inserted upside down or in the wrong way (MD).
Playback does not begin.	Defective MD or dusty CD.
A disc is automatically ejected.	The ambient temperature exceeds 50°C (122°F).
The operation buttons do not function.	Press the reset button.
The sound skips due to vibration.	• The unit is installed at an angle of more than 60°. • The unit is not installed in a sturdy part of the car.

Radio reception

Problem	Cause/Solution
Preset tuning is not possible.	• Memorize the correct frequency. • The broadcast signal is too weak.
Automatic tuning is not possible.	The broadcast signal is too weak. → Use manual tuning.
The "ST" indication flashes.	• Tune in the frequency accurately. • The broadcast signal is too weak. → Set to the MONO mode (page 13).

Error displays (when an optional CD/MD unit is 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 / MD unit.	Insert the disc magazine in the CD / MD unit.
NO Disc	No disc is inserted in the CD / MD unit.	Insert discs in the CD / MD unit.
NG Discs	A CD / MD cannot play because of some problem.	Insert another CD / MD.
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	Play an MD with tracks recorded on it.
PushReset	The CD / MD unit cannot be operated because of some problem.	Press the reset button of the unit.
Not Ready	The lid of the MD unit is open or MDs are not inserted properly.	Close the lid or insert the MDs properly.
HighTemp	The ambient temperature is more than 50°C (122°F).	Wait until the temperature goes down below 50°C (122°F).

*1 *When an error occurs during playback of a CD or MD, the disc number of the CD or MD does not appear in the display.*

*2 *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.

Sony Corporation Printed in Japan

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