

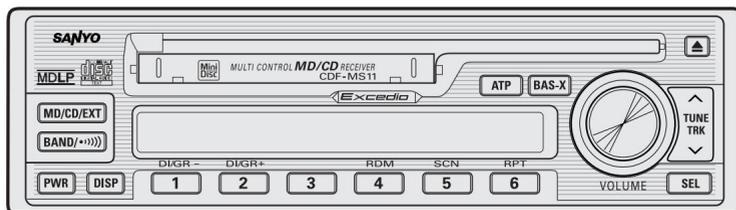
# instruction manual



## MD / CD tuner installed 1DIN receiver part

### number CDF-MS11

Thank you for your purchase. Please read this instruction manual carefully and use it correctly. After reading it, keep it in a safe place with the warranty card so that you can take it out at any time.



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Common operation page 18 ~

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Other pages 46 ~

This product cannot be used overseas.  
FOR USE IN JAPAN ONLY



The product number displayed on the packaging box, CDF-MS11 (S), (K), etc. The symbols in parentheses are color symbols. The display of color symbols is omitted in the manual. Silver black

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# Main features

**CD part**

- ; Title display  
 You can display the disc name and song name recorded on the CD during performance. The disc on which text information is recorded is marked on the left.
 
- ; Performance time display  
 You can display the elapsed track time. ; 8cm CD compatible  
 8cm CD can be played automatically without an adapter.
- ; Scan function  
 Plays the intro of each song for about 10 seconds. ; Repeat function  
 You can listen to your favorite songs repeatedly. ; Random (random performance) function  
 Plays all songs on the playing disc in no particular order.

**First MD part**

- ; Supports MDLP playback  
 You can also play MDLPs with a recording time that is up to 4 times longer. 80 minutes for normal recording 80 minutes for 80 minutes disc, 160 minutes for LP2 (double mode), LP4 (4x mode) can play for 320 minutes.
- ; Title display  
 The disc name and song name recorded on the MD can be displayed during performance. The disc on which text information is recorded is marked on the left.
 
- ; Performance time display  
 You can display the track elapsed time.
- ; Scan function  
 Plays the intro of each song for about 10 seconds.
- ; Repeat function  
 You can listen to your favorite songs repeatedly.
- ; Random (random performance) function  
 Plays all songs on the playing disc in no particular order.
- ; Group function \*  
 This is convenient when operating an MDLP mode disc that can record for a long time. ; Group title display  
 Displays the group title.
- ; Skip operation in group units  
 You can skip for each group. ; Group scan function  
 Play the intro of a group for about 10 seconds each, and repeat the operation to move to the next group. ; Group repeat function  
 You can repeatedly listen to only the tracks in the group. ; Group random function  
 Plays all tracks in the group in no particular order from within the group being played.

\* The group function can be operated only for discs registered as a group.

Radio part	<p>; Road traffic information button You can adjust to 1620kHz with one touch. (Also possible in other than radio mode) ; Area tuning FM / AM broadcasting stations in 42 regions (areas) nationwide are stored in advance. When you select an area, you can call up the stations in that area with the preset buttons. ; Automatic tuning Selects a broadcasting station automatically. ; Auto Travel Preset (ATP) FM6 and AM6 stations can be preset automatically. ; Preset FM12 stations and AM12 stations can be preset.</p>
others	<p>; Various setting functions You can select the presence or absence of button operation sound, set the automatic scrolling of the title, adjust the brightness of the display, turn the illumination on / off, and set the time. ; Built-in changer controller You can operate the separately sold CD changer (CDF-C61J3) with this unit. ; With clock. 45W x 4 high power ; 4-speaker fader control</p>

First

US and foreign patents licensed from Dolby Laboratories Licensing Corporation.

The above label is affixed to this machine. This means that this machine was manufactured under a license agreement with Dolby Laboratories Licensing Co., Ltd. It shows.

# Safety Precautions (1)

⌋ Please read this instruction manual carefully before use to ensure correct use. ⌋ After reading it, be sure to keep it in a place where you can see it at any time. ⌋ In this instruction manual and the display of this machine, various precautions are displayed so that you and the people around you can use this machine safely and correctly without causing any harm or damage. ..

Precautions are divided into two categories, "t warning" and "t caution", depending on the degree of harm or damage that may occur if you do not observe them.

**t Warning:** It indicates that if this indication is ignored and the product is handled improperly, there is a risk of death or serious injury.

**t Note:** It indicates that if this indication is ignored and the product is handled improperly, it is possible that a person may be injured or that only property damage may occur.

First

In addition, the nature of the caution content is shown in a pictorial display.

**t** The: r symbol tells you that you have to be careful.  
Specific precautions (general precautions in the case of the left figure) are drawn in the figure.



The: e sign tells you what you shouldn't do.  
Some of the figures show specific prohibited contents (in the case of the left figure, disassembly is prohibited).

**q**

The: w sign tells you that you have to do it.  
Specific instructions (general instructions in the case of the left figure) are drawn in the figure.

# t warning

e

This machine is for 12V vehicles only. For 24V cars (trucks, buses, etc.)  
Please do not use. It may cause a fire.



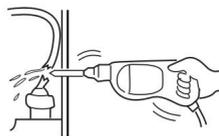
e

Do not place the machine in a place that obstructs the front view or the driving operation of the steering wheel, shift lever, brake pedal, etc. Do not install it in a place that interferes with driving or poses a danger to passengers. It may cause a traffic accident or injury.



q

When installing with holes in the car body, check the positions of pipes, tanks, electrical wiring, etc., and interfere with them. Be careful not to touch it. It may cause a fire.



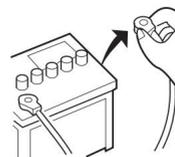
e

When installing this machine or grounding, use the bolts and nuts of the car body. When using, handle / brake system and tank  
Never use safety parts such as. Using these may cause inability to brake or fire.



q

During wiring work, remove the \_ terminal of the battery. It may cause electric shock or injury due to a short circuit accident.



q

Keep the cords together so that they do not interfere with driving operations. It is dangerous to wrap it around the steering wheel, shift lever, brake pedal, etc.



Firs

# Safety Precautions (2)

## t warning



Never disconnect the power lead wires to power other equipment. It may exceed the current capacity of the lead wire and cause a fire or electric shock.



q

After installation and wiring, brake lights, lights, All electrical components such as horns, turn signals, wipers, etc. Make sure it works properly. It may cause a traffic accident.



Do not change discs or adjust the volume while driving a car. Be sure to park your car in a safe place for such operations.



First



Do not disassemble or modify this machine. It may cause an accident, fire or electric shock.

Disassembly prohibited

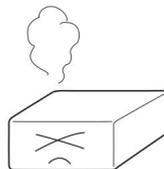


Do not use it in a faulty state such as no display or no sound. It may cause an accident, fire or electric shock.



q

In the unlikely event that a foreign substance has entered, water or drink has splashed, or smoke If something goes wrong, such as a strange smell or a strange smell, Stop using it immediately and be sure to consult the store where you purchased it. Continued use may cause an accident, fire or electric shock.



## t Attention

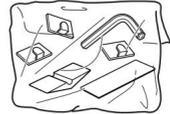
q

Expertise and experience are required to install and wire this machine.  
For your safety, be sure to ask the store where you purchased the product.



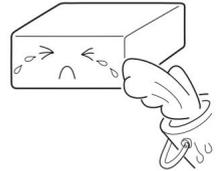
q

Be sure to use the attached parts as specified. specify  
If you use any parts other than the above, it is dangerous because the parts inside  
the machine may be damaged or the parts may not be firmly fixed and may come off.



⊘

Do not install it in a place exposed to water such as a place where  
it is exposed to rain, or in a place with a lot of humidity or dust. If  
water, moisture or dust gets mixed into the machine, it may cause  
smoke or fire.



⊘

Avoid mounting in places where it cannot be firmly fixed, such as  
places with a lot of vibration. It may come off and cause an accident  
or injury.

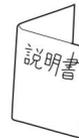


⊘

Do not block the ventilation holes or heat sink of this machine. Blocking the ventilation  
holes and heat sink may cause heat to build up inside and cause a fire.

q

Follow the instructions to wire correctly.  
Failure to make a proper connection may cause a fire or accident.  
May occur.



q

Connect the power cords (red and yellow cords) at the end  
of the wiring work. Due to a short accident  
It may cause electric shock or injury.



⊘

Do not use the \_ side of the left and right speakers as a common line or ground the  
vehicle body. It may cause electric shock or injury due to a short circuit accident.

Firs

# Safety Precautions (3)

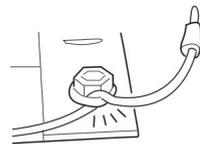
## t Attention

q

Wiring to moving parts such as the car body, screw parts, seat rails, etc.

Be careful not to pinch it.

A disconnection or short circuit may cause an accident, electric shock, or fire.



q

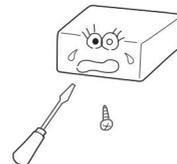
Use the volume while driving so that you can hear the sound outside the car.

please give me. If you drive without hearing the sound outside the car,

It may cause an accident.



Do not insert foreign matter into the disc insertion slot. It may cause fire or electric shock.



First

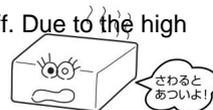


Do not put your hands or fingers in the disc insertion slot. It may cause injury.

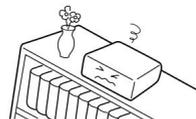


No contact

Do not touch the heat sink or amplifier on the back of the unit when the power of the unit is on or immediately after the power is turned off. Due to the high temperature, it may cause burns.



Do not use this machine except for in-vehicle use. It may cause electric shock or injury.

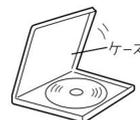


q

Remove the disc when not in use.

If you leave it in the machine for a long time, it may be hot.

It may damage the disc.



# Precautions for use

## About the temperature inside the car



It may not operate normally when it is extremely cold or extremely hot. In such a case, warm the inside of the car to an appropriate temperature before use.

The temperature inside a car with the windows closed, such as in midsummer, becomes quite high. When the internal temperature of this unit becomes higher than the standard, the circuit that protects the inside works to automatically stop the playback of the disc and eject it. In such a case, open the window and lower the temperature inside the car before using.

## About condensation

Dew (water droplets) may form on the optical lens inside the unit, such as on a rainy day, when the humidity is extremely high, or when it is cold, immediately after the heater is turned on. If this is left as it is, the laser may not be able to read and the machine may not operate normally. In such a case, depending on the surrounding conditions, if you take out the disc and leave it for about 1 hour, the condensation will be removed and it will operate normally.



## Liquid crystal display The

display may be difficult to see at extremely high or low temperatures, but this is not a malfunction. When the ambient temperature returns to normal temperature, it returns to the normal display.



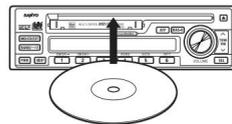
## About sound skipping of CDs Sound

skipping may occur when the CD is installed improperly or when driving on an extremely poor road surface. In such a case, check the mounting condition and return to the road with good road surface before using.



## About 8cm CD

This unit does not require an 8cm CD adapter. Insert the 8cm CD as it is, just like the 12cm CD. Using an 8cm CD adapter may cause a malfunction.



## About disk storage

Be sure to remove the disc when not in use. It may cause warping due to the influence of direct sunlight. Be sure to put the disc in a case and store it in a place out of direct sunlight.

compact disc

# CD How to handle

Dirt on the compact disc, dust, scratches, warpage, etc. may cause the sound to skip and cause malfunctions such as deterioration of sound quality. Please note the following so that you can enjoy the beautiful sound.



Only compact discs with the mark on the left can be used.

CD-R / RW cannot be played due to disc characteristics, scratches, dirt, etc.

There is a match. CD-ROMs cannot be played.

Do not use discs with special shapes such as heart-shaped or octagonal.

It may cause a malfunction of this machine.



About CD with copy protection function (copy control CD) Use a

disc that matches the [CD logo] on the disc label side (Printed Disc Standard). Discs such as those with marks you play a CD with a copy protection function (copy control CD) for

the purpose of copy protection on a personal computer, etc., it may not be played normally. This is a phenomenon because the CD with copy protection function (copy control CD) does not conform to the CD standard, and is not a malfunction of this unit. If you have problems playing a copy-protected CD (copy control CD), contact the publisher of the copy-protected CD (copy control CD).



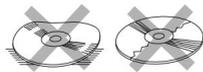
First



When holding the disc, try not to touch the playing surface as much as possible. please.



Stick paper or stickers on the printed or playing surface, or scratch it. Please do not.



Do not use discs that have glue sticking out or have been peeled off, such as cellophane tape or rental CD labels. This may prevent the

disc from being ejected or cause the unit to malfunction. Since the disc rotates at high speed during performance, cracked discs and large warped discs

Please do not use the desk.



Be sure to put it in a case so that it does not bend, and do not store it in a place exposed to direct sunlight. Especially in the summer, the car seats and dashboards that are closed in direct sunlight can get quite hot, so do not leave them unattended.



Before using, gently wipe the playing surface with a soft cloth from the inner circumference to the outer circumference of the disc. Do not use record sprays, antistatic agents, etc. Also, do not use volatile chemicals such as benzine and thinner as they may damage the disk.



Mini disc

# MD How to handle

Since the disc body is housed in a cartridge, you can easily handle it without worrying about dust and fingerprints. However, dirt or warpage of the cartridge may cause malfunction. Please note the following so that you can enjoy the beautiful sound.



Please use the minidisc with the mark on the left.



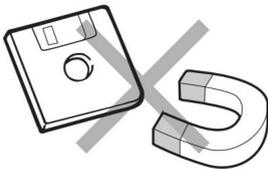
Please do not open the shutter.

Do not open the shutter and touch the surface of the disc, or wipe it with a solvent such as a record cleaner, alcohol, or thinner.

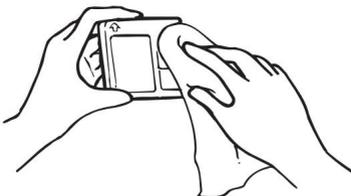


About storage

When not in use, be sure to put it in a case and store it away from direct sunlight. Especially in the summer, the seats of cars closed in direct sunlight and the top of the dashboard can get quite hot, so do not leave them unattended.



Storage of recording discs Keep the recording MD away from magnetic objects (magnets, etc.). The recorded data may be erased due to the influence of magnetism.



About care

- ¡ Periodically wipe off any dust or debris on the surface of the cartridge with a dry cloth.
- ¡ Reattach the label that is about to come off or replace it with a new label.

Firs

# Names and functions of each part (1)

**Common operation** is the reference page.

**Power button (PWR)**

Turns the power on and off. ! 8

\* If you press the button for 3 seconds or longer while it is OFF, the area setting screen will be displayed.

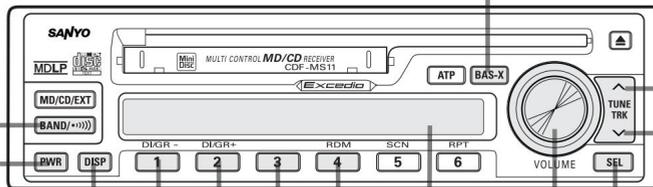
**Road traffic information button (TRK)**

Press for 1.5 seconds or longer to display "T.INF" and receive road traffic information. # 8

**Bus expander button (BAS-X)**

Emphasizes the bass range. ! 9

Up / Down button (,) ; Used for time adjustment. @ 4 ; Used to set the illumination dimming time. @ 2



Display

**Preset button 4**  
Used to set the illumination dimming time. @ 1

**Preset button 3**

Used to set the brightness of the display. @ 1 ; Used for time signal adjustment. @Four

**Preset button 2**

Used to set the scroll action selection. @ 1 @ 2

**Preset button 1**

Used for priority display switching. @ 3 ; It is used to set the presence or absence of operation sound. @ 1 @ 2

**Level adjustment knob**

Used for audio adjustment and track selection. Turn this knob to adjust the VOLUME. ! 9

Used in audio operation mode. @ 0

Brightness / Title scroll / Operation sound / Illumination setting mode. @ @ 1 2

**Select button (SEL)** ; Each time you press it, the audio operation mode switches. @ 0



For CD / MD



Press for 4 seconds or longer to switch to brightness / title scroll / operation sound / illumination setting mode. @ @ 1 2

**Display button (DISP)**

Mode display Switches the clock display for about 5 seconds. @ 3

\* If you press preset button 1 while holding down this button, the clock display priority mode display priority is switched. ; If you hold down this button and press the up / down button, you can set the clock. If you hold down this button and press preset button 3, the time signal will be adjusted. @Four

teeth  
eye  
To

## CD operation • is the reference page.

### Display button (DISP)

When playing a CD, the display changes each time you press it. # 0

▶ Playing time ▶ Disc name ▶ Track name ▶ Clock ▶ display

If the disc name or track name is too long to be displayed at once, press it for 1.5 seconds or longer to scroll the display. # 0

### From the CD mode button

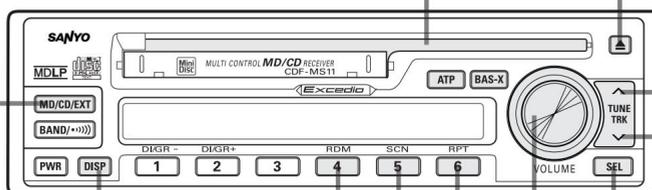
(CD) power off state, radio mode, or EXT (changer) mode  
Switch to CD mode. (When a CD is inserted in this unit) @ 7

\* When the power is off or switched from radio mode

If you are in EXT mode, press this button again.

Eject button (▲)  
When ejecting a CD  
Press. @ 6

CD insertion slot \* @ 5



Random Button (RDM) Plays all songs on the playing disc in no particular order. @ 9

Scan Button (SCN) Plays the beginning of a song in sequence. @ 9

Repeat Button (RPT) Plays the song you are playing over and over again. @ 9

Select button (SEL) Used to directly search for your favorite song. @ 7

Level adjustment knob  
Use this to directly search for your favorite song. @ 7

Track skip button (.) Select your favorite song. You can also press and hold this button while playing to fast forward (▶) or fast rewind (◀). @ 7 8

\* Only one MD or CD can be inserted into this unit.

# Names and functions of each part (2)

**MD operation** • is the reference page.

Display button (DISP)

When playing MD, the display changes each time you press it. #Five

Performance time Disc name Group name Track name Clock display

If the disc name, group name, or track name is too long to display all at once, press for 1.5 seconds or longer to scroll the display. #Five

From MD mode button (MD)

power off state, radio mode, EXT (changer) mode

Switch to MD mode. (When MD is inserted in this machine) # 2

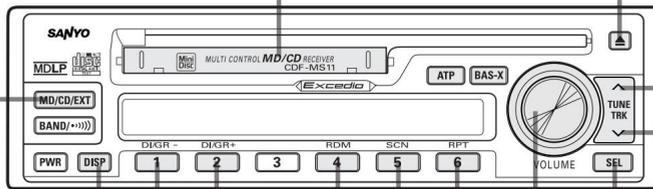
\* When the power is off or switched from radio mode

If you are in EXT mode, press this button again.

Eject button ( )

When taking out the MD Press. # 1

MD insertion slot \* # 1



Group select button (-, +) Select the group you like. ## 3 4

Random Button (RDM) Plays all songs on the playing disc in no particular order. ## 3 4

Scan Button (SCN) Plays the beginning of a song in sequence. ## 3 4

Repeat Button (RPT) Plays the song you are playing over and over again. ## 3 4

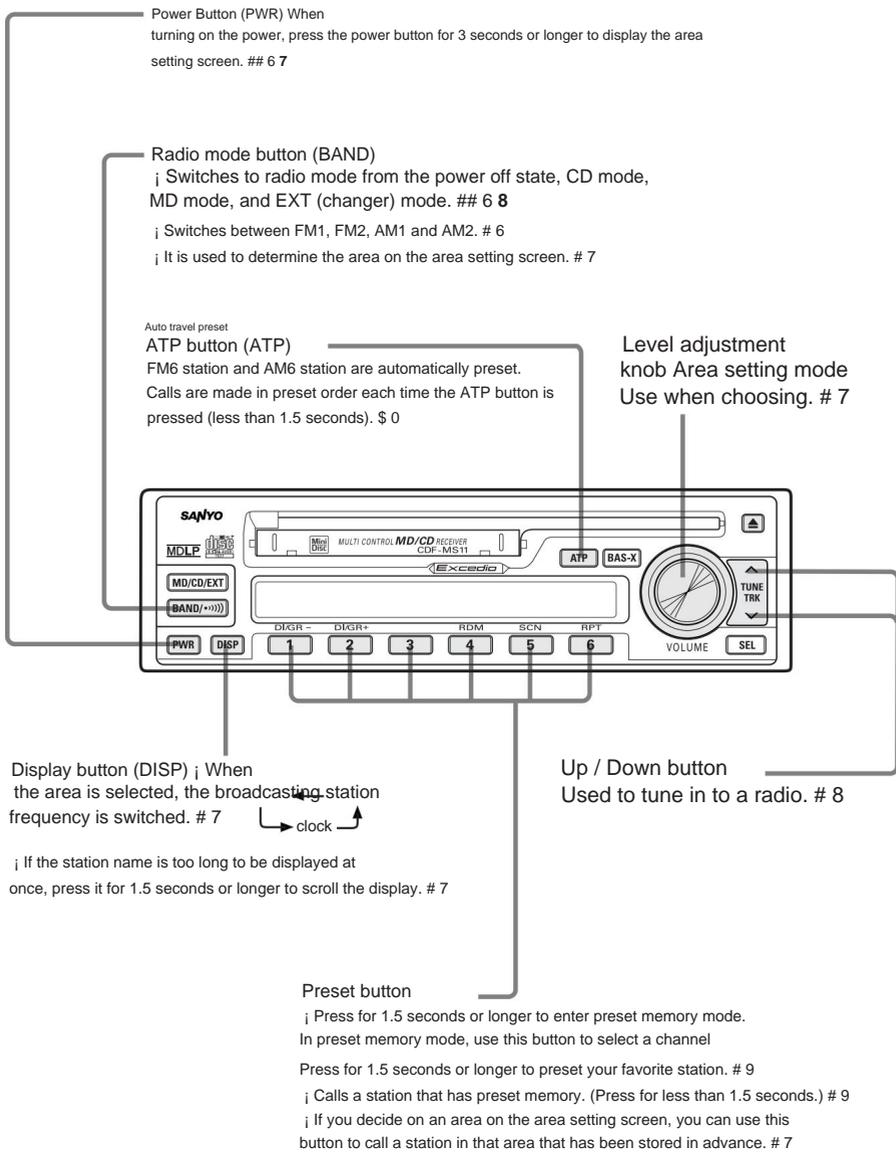
Select button (SEL) Used to directly search for your favorite song. # 2

Level adjustment knob Use this to directly search for your favorite song. # 2

Track skip button (.) Select your favorite song. You can also press and hold this button while playing to fast forward ( ) or fast rewind ( ). # 2

\* Only one MD or CD can be inserted into this unit.

## Radio operation • is the reference page.

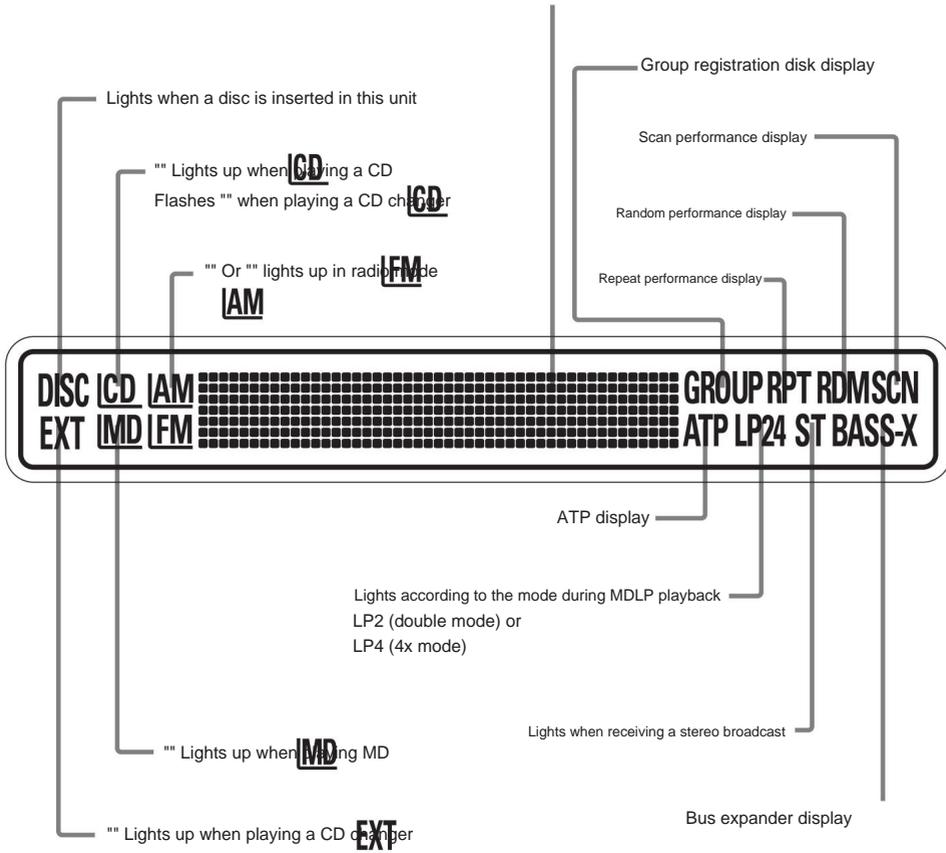


teeth  
 eye  
 To

# How to display

Audio mode (VOL, BAS, TRE, BAL, FAD, TRK) display, band (FM1, FM2, AM1, AM2) display, CD display, MD display, changer number (EXT1, EXT2) display, clock, frequency, preset number, Area setting screen, Brightness / Title scroll / Operation sound setting screen, Broadcasting station name, Disc number, Group number, Track number, Performance time, Disc name, Group name, Track name, etc. \* Number of tracks for MD / CD When is greater than 100, or when the playing time exceeds 100 minutes, the 100s digit is not displayed.

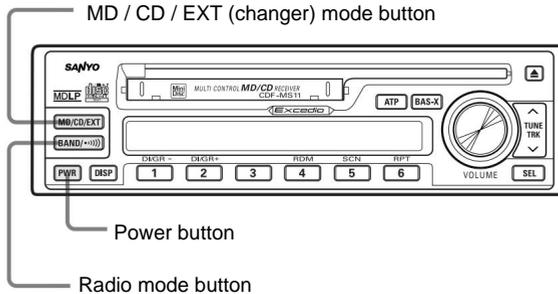
teeth  
display  
eye  
To



\* You can adjust the brightness of the display. z21, page 22

\* When the car's ACC is turned on, [Morning] (6: 00-9: 59) or [Good day] (10: 00-17:59) or [Hello!] (18:00 to 5:59) is displayed for about 2 seconds.

# To turn on / off the power



Press the power button ( )

to turn on the power. In this case, it will be the mode before turning off the power. Also, when you insert the disc, the power turns on automatically and the performance starts. | In

A few words

the following cases, when the power is turned on,

Area setting screen (example)

1 Tokyo

The area setting screen is displayed. •

When using for the first time after

installation • When the power button is pressed for **Area tuning** (Page 37)

3 seconds or more \* If you do not tune in to the area, press the power button ( ) to turn off the power once.

After that, press the power button again (less than 3 seconds) to turn on the power.

| You can also turn on the power by pressing the button of the mode you want to hear.

CD mode: Press the CD mode button ( ) Page 27 (when a CD is inserted) \* If you are in EXT (changer) mode, press this button again.

MD mode: Press the MD mode button ( ) page

(When MD is inserted) \* If

you are in EXT (changer) mode, press this button again.

Radio Mode: Press the Radio Mode button ( ) Page 36 EXT mode: Press the EXT (changer) mode button ( ). z42 page

MD/CD/EXT

(When an optional CD changer is

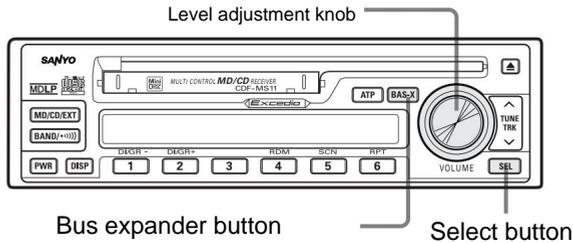
connected) \* If you are in CD mode / MD mode, press this button again.

To turn off the power

Press the power button ( ).

[Good bye] is displayed for about 1 second, and the clock is displayed.

# To adjust audio



## To adjust the VOL volume

Adjust with the level  adjustment knob ( ).

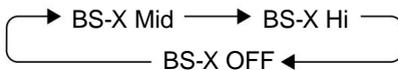
\* Turn to the right to increase the volume, and turn to the left to decrease the volume.

## To emphasize the bass range (BAS-X)

Press the bus expander button .

[BAS X] lights up to emphasize the bass

range. Each time you press the button, the bus expander mode switches as follows.



To adjust BAS bus / TRE treble / BAL balance / FAD fader

ÿ Select the mode you want to adjust with the select button ( ). \* Each time you press the button, the mode switches as shown in the table below.

(2) Adjust with the level adjustment knob ( ).



\* Perform while each mode (BAS / TRE / BAL / FAD) is displayed (about 5 seconds). Turn the level adjustment knob after the mode display disappears to adjust the VOL volume.

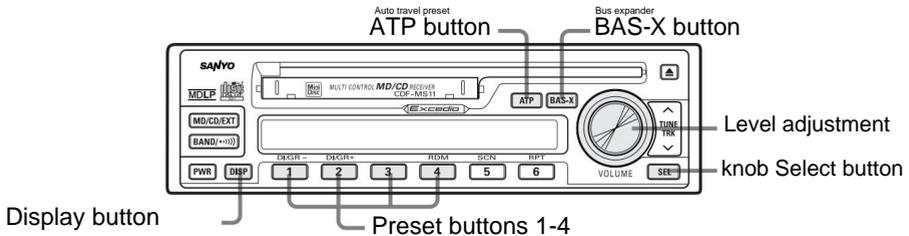
\* Turn to the right in the + direction (UP), and turn to the left in the-direction (DOWN).

Mode switching	Turn to the left (DOWN)	Turn to the right (UP)	
↓ <b>BAS</b> ↓ <b>TRE (treble)</b> ↓ <b>BAL (balance)</b> ↓ <b>FAD</b> ↓ <b>VOL</b>	Bass weakens	Bass becomes stronger	-7 to +7
	The treble weakens	The treble gets stronger	-7 to +7
	The volume of the right speaker decreases The volume of the front speaker decreases	The volume of the left speaker decreases. The sound volume of the rear speaker decreases.	L9 ~ 0 ~ R9
			R9 ~ 0 ~ F9
	Volume goes down	Volume goes up	0-31
At the time of CD / MD			
↓ <b>TRK</b> ↓ <b>BAS</b> ↓ <b>TRE (treble)</b> ↓ <b>BAL (balance)</b> ↓ <b>FAD</b> ↓ <b>VOL</b>	Performance track returns	Performance track advances 1 to MAX	
	Bass weakens	Bass becomes stronger	-7 to +7
	The treble weakens	The treble gets stronger	-7 to +7
	The volume of the right speaker decreases The volume of the front speaker decreases	The volume of the left speaker decreases. The sound volume of the rear speaker decreases.	L9 ~ 0 ~ R9
			R9 ~ 0 ~ F9
	Volume goes down	Volume goes up	0-31

Cooperati

# To make various settings

You can adjust the brightness of the display, select automatic scrolling of the title, and select whether or not to use the button operation sound.



1 Press the select button ( ) until [Settings] is displayed (blinks) (4 seconds or longer).

2 To change the brightness of the display

Press the preset button 3 (3. [LCD]) and current brightness level (0-10) is displayed.

You can set the level for each of ILM ON (light on) and ILM OFF (light off). Change the level in each state (light on / off). \* At the time of shipment from the factory, when ILM is ON (light is on) [LCD 6], when ILM is OFF (light is off)

is set to [LCD 6].

(2) Use the level adjustment knob ( ) to adjust the display so that it is easy to see.

To make it brighter, turn it to the right to raise the level (increase the number). To make it darker, turn it to the left to lower the level (decrease the number).

If you select [ILM Y] to select whether or not the illumination is

dimmed, the illumination will be dimmed automatically within the preset time \*. \* Set the dimming start time (ILM ON time) and dimming end time (ILM OFF time).

when.

Press the preset button 4 (4. [ILM Y]) or [ILM N] is displayed.

(2) You can change the setting by turning the level adjustment knob ( ). ILM Y ↔ ILM N switches each time the knob is turned. If the illumination is dimmed, [ILM Y] is displayed. If there is no illumination dimming, [ILM N] is displayed.

ÿ When it is decided whether or not the illumination is dimmed, press the select button ( ) to confirm.  
To do.

To set the dimming time (set after step ÿ above)

If you press the ATP button ( ) while <sup>Auto travel preset</sup> "ILM Y" is displayed, the ILM ON time is displayed.

If you press the BAS-X button ( ) while <sup>Bus expander</sup> "ILM Y" is displayed, the ILM OFF time will be displayed.

"Time" adjustment ..... Press the up / down button ( ). If you keep pressing it, it will change quickly. Set "minutes" ..... Press the up / down button ( ). If you keep pressing it, it will change quickly.



\* At the time of shipment from the factory, it is set from 18:00 to 6:00 for "ILM Y". \*

For cars with an orange / white line (ILM) cord connected to the illumination circuit, the car light  
When is lit, the light is dimmed regardless of the dimming time  
setting. When the time is decided, press the select button ( ) to confirm.

If you set [SCROLL Y] to scroll the title automatically, the

display will scroll automatically if the disc name, group name, track name, station name, etc. are too long to be displayed at once. continue. ÿ Press the preset button 2 ( ). [SCROLL Y] or [SCROLL N] is displayed



Will be

done. \* When shipped from the factory, it is set to [SCROLL N].

With this setting, if the disc name, group name, track name, station name, etc. are too long to be displayed at once, press the display button ( ) for 1.5 seconds <sup>DISGR</sup> longer to scroll the display once.

(2) If [SCROLL N] is displayed in step (1), turn the level adjustment knob ( ) and turn it.  Display [SCROLL Y].

ÿ After deciding whether to scroll once or continue scrolling until it is pressed again, set  
Press the select button ( ) to confirm.

To select the presence or absence of button operation sound

ÿ Press the preset button 1 ( ) [BEEP Y] or [BEEP N] is displayed.

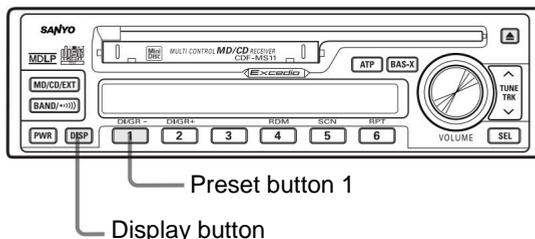
\* When shipped from the factory, it is set to [BEEP Y].

(2) Turn the level adjustment knob ( ) to select. BEEP Y 

ÿ ÿ BEEP N switches each time the knob is turned. If there is a button operation sound, [BEEP Y] is displayed. If there is no button operation sound, [BEEP N] is displayed. (3) After deciding whether or not there is an operation sound, press the select button ( ) to confirm. 

# To switch the priority display

Priority display can be selected for each mode (radio, CD, MD, EXT).



At the time of shipment from the factory, the radio mode gives priority to the clock display (the time is displayed even when listening to the radio), and the CD mode / MD mode / EXT mode gives priority to the mode display (devices connected to the CD / MD / changer). When listening, each mode is displayed).

1 Select the mode (radio / CD / MD / EXT) for which you want to switch the priority display.

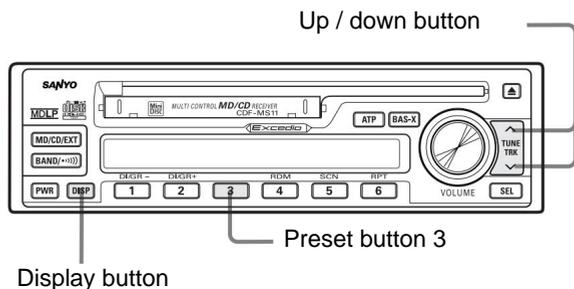
Cooperative operation

2 Hold down the display button (DISP) and press the preset button 1 (1) to prioritize the clock display (displays the mode and clock while listening to the radio / CD / MD / changer.)  
 • Mode display priority (When listening to the radio / CD / MD / changer, each mode is displayed.) Toggle.

\* If you press the display button (DISP) when the clock display is prioritized, the current mode will be displayed for about 5 seconds. If you press the display button (DISP) when the mode display is prioritized, the clock will be displayed for about 5 seconds.

# How to set the time

Please set the time before using.



## 1 Confirm that the display is a clock display.

If it is not in the clock display, press the display button (□) display the clock for about 5 seconds. (It cannot be operated in the mode display state.)

## 2 Hold down the display button (□) (clock display state) and press the up / down button (or) (▲/▼)

"Time" adjustment ..... Press to the up side (▲). If you keep pressing it, it will change quickly. Set "minutes" ..... Press down (▼). If you keep pressing it, it will change quickly.

### To adjust the "time signal"

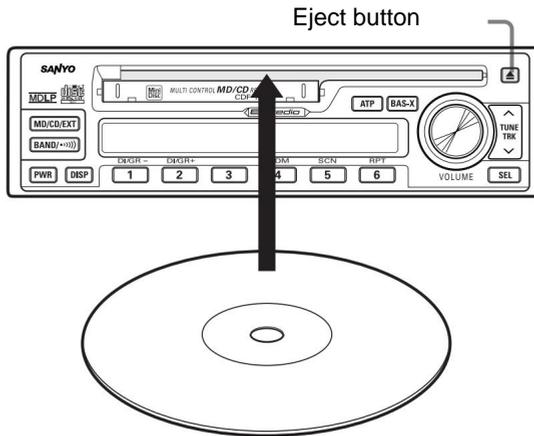
Hold down the display button (□) (clock display state) and press the preset button 3 (3) along with the time signal (3). If the "minute" display is within 30 minutes, it will return to 00 minutes. When the "minute" display is 31 minutes or more, the "hour" display is incremented by 1 hour to display 00 minutes. Example 10: 00-10: 30 → 10:00

10: 31-11: 00 → 11:00



The clock of this unit is displayed for 24 hours.

# To listen to a CD (1)



## To insert a disc

### 1 Insert the CD with the print side up.

Automatically starts playing the CD. [CD] on the display changes to [].

A few words

⌋ [DISC ERR] is displayed when the disc is inserted with the print side facing down. Be sure to insert with the print side facing up.

⌋ If an optical disc is already inserted, remove the disc and then the next disc.

Please put in a desk. CD and MD cannot be inserted at the same time. ⌋ Insert the 8cm CD as it is, just like the 12cm CD. Using an 8cm CD adapter may cause a malfunction.

⌋ CD-R / RW may not be playable due to disc characteristics, scratches, dirt, etc.

⌋ CD-ROMs cannot be played.

ÿ About CD with copy protection function (copy control CD) ⌋ Use a

disc that conforms to JIS standards, such as one with the [CD logo] mark on the disc label side (printing side).

⌋ If you play a CD with a copy protection function (copy control CD) for the purpose of copy protection on a personal computer, etc., it may not be played normally. This is a phenomenon because the copy-protected CD (copy control CD) does not conform to the CD standard, and is not a malfunction of this unit. If you have problems playing a copy-protected CD (copy control CD), contact the publisher of the copy-protected CD (copy control CD).

To adjust the volume / sound quality

2 Adjust the volume and sound quality according to "To adjust the audio" (page 19).

When the last song is finished playing

When the last song has finished playing, it will resume from the beginning of the first song.

Press the eject button ( ) to eject the

disc . (When ejected, the power is turned off.)

A few words



When you eject the CD and start playing again, the performance starts at the beginning of the first song on the disc. \* If you turned off ACC during a performance, the next time you turned on ACC, you were playing before.

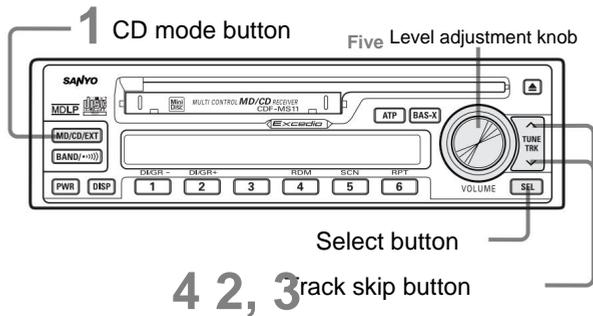
I will start playing from the continuation.

\* If you leave the disc as it is after pressing the eject button, the disc will be protected.

Therefore, the disc is automatically inserted and set in this unit after about 10 seconds. ([DISC] lights up.) At this time, the performance does not start automatically.

Operat

# To listen to a CD (2)



Please refer to the above number and the following explanation.

## To switch to CD mode

1  
Press the CD mode button (1). You can switch from the power off state, radio mode, and EXT (changer) mode to CD mode with a single touch. (When a CD is inserted in this unit) \* When the power is off or the radio mode is switched to, the EXT (changer) mode is set.

If this happens, press this button again.

## How to choose your favorite song

Track The track number of the song you want to hear is displayed with the skip button (or).

Let me.

Operation of CD

Press Side (2) to advance to the next track. Press the side (3) twice to return to the previous track. \* Press the side (4) once to return to the beginning of the song you are listening to.

## To choose directly

Press the select button (5) and turn the level adjustment knob (5) while [TRK] is displayed. When the desired track number is set, playback of that track will start.



To find a favorite place in the middle of a song

Press and hold the track skip button (or) to fast forward or rewind

You can find your favorite part of the song you are playing.

Press and hold the side ( ) to fast forward. Press the side ( ) to return with fast rewind

I will continue to do it.

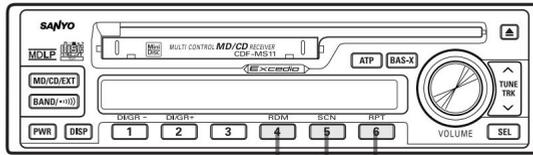
When you release each button, you can start playing.

Hold down the track skip button and pause at the beginning or end of the disc

It will be in a state.

Operat

# To play various musi



- 2 Random button  
 3 Scan button  
 1 Repeat button

## To play repeatedly

1

Press the repeat button  to turn on [RPT] and play the song you are listening to repeatedly. Press the repeat button again to cancel. \* It will also be canceled when the disc is ejected.

## To play randomly (in no particular order)

2

When you press the random button , [RDM] lights up and the songs on the disc are played in no particular order. When all songs have been played, the operation of playing the disc in no particular order is repeated. Press the random button again to cancel. \* It will also be canceled when the disc is ejected.

### Operation of CD

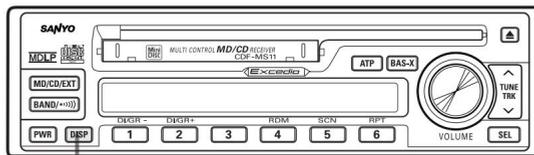
## To scan (intro) play

3

When you press the scan button , [SCN] lights up, the beginning (intro) of the song is played for about 10 seconds, and the operation to move to the next song is repeated. If there is a song you like, press the scan button again to cancel it. It will return to normal performance from the released song. \* It will also be canceled in the following cases. | Switched to another mode (radio / EXT).

| I turned off ACC. | I turned off the power. | The disc was ejected. | I operated the track skip button.

# To switch the display

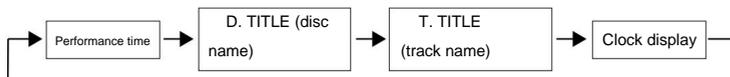


Display button

To display the playing time / disc name / track name / clock

## 1 Press the display button (DISP).

Each time you press it, the display changes as follows.



Press this button continuously within about 5 seconds after pressing the display button (DISP).

If not, the clock is displayed when the clock display is prioritized, and the mode is displayed when the mode display is prioritized.

It will be.

\* If the disc name and track name are too long to be displayed at once, the display box

Press the tongue (DISP) for at least 1.5 seconds. The display scrolls. (Circle and stop

I will. However, it does not work in the case of NO TTL display.)

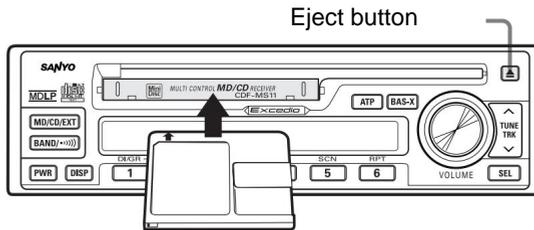
You can also set the display to scroll automatically. z22 page

A few words

For discs that do not have a disc name or track name recorded, [D: NO TTL], respectively.

[T: NO TTL] is displayed.

# To listen to MD (1)



## To insert a disc

- 1 Insert the disc in the direction of c, with the side with c facing up. The MD will start playing automatically. [MD] on the display changes to [].

A few words

⌋ If an optical disc is already inserted, remove the disc and then insert the next disc.

CD and MD cannot be inserted at the same time.

⌋ As the MD recording takes a long time (normal ÷ LP2 ÷ LP4), the sound quality will differ when the MD is played. If you want to hear the best sound quality, play it on the MD recorded in normal mode.

## To adjust the volume / sound quality

- 2 Adjust the volume and sound quality according to "To adjust the audio" (page 19).

- 3 When the last song has finished playing When the last song finishes playing, the performance resumes from the beginning of the first song.

Operation of MD

Press the eject button ( ) to eject the

disc. (When ejected, the power is turned off.)

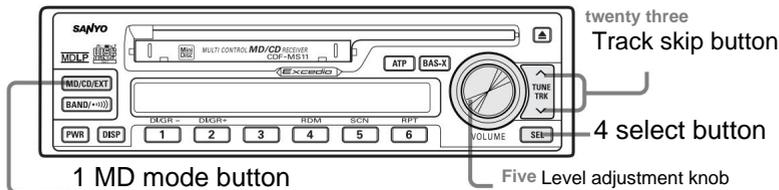
A few words

When you take out the MD and start playing again, the performance starts from the beginning of the first song on the disc. \* If you turned off ACC during a performance, the next time you turned on ACC, you were playing before.

I will start playing from the continuation.

\* If you leave the disc as it is after pressing the eject button, the disc will be protected.

Therefore, the disc is automatically inserted and set in this unit after about 10 seconds. ([DISC] lights up.) At this time, the performance does not start automatically.



Please refer to the above number and the following explanation.

**To switch to MD mode**

1  
 Press the MD mode button (1) to switch from the power off state, radio mode, and EXT (changer) mode to MD mode with a single touch. (When MD is inserted in this unit) \* When the power is off and the radio mode is switched to, the EXT (changer) mode is set. If this happens, press this button again.

**How to choose your favorite song**

Track Use the Skip button (2) to display the track number of the song you want to hear. Press Side (3) to advance to the next track. Press the side (3) twice to return to the previous track. \* Press the side (3) once to return to the beginning of the song you are listening to. \* If the number of tracks exceeds 100, the 100's place will not be displayed.

**To choose directly**

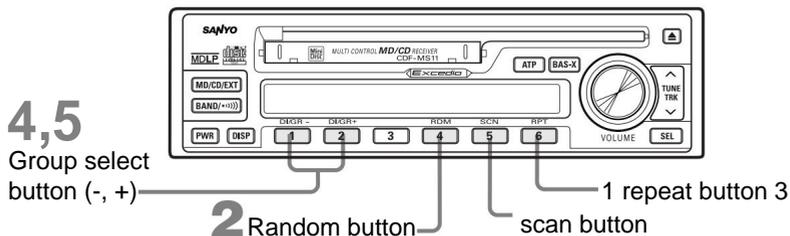
This is convenient when there are many tracks.

Press the select button (4) and turn the level adjustment knob (5) to the right while [TRK] is displayed to advance the track. Turn it counterclockwise to return the track. You can skip many tracks and easily play the song you want to hear.

**To find a favorite place in the middle of a song**

Press and hold the track skip button (2) to fast forward or rewind to find what you like about the song you're playing. Press and hold the side (3) to fast forward. To return with fast rewind, press and hold the side (3). When you release each button, you can start playing. Hold down the track skip button (2) and pause at the beginning or end of the disc.

# To play various music



Please refer to the above number and the following explanation.

## To play repeatedly

1

Press the repeat button (RPT) and play the song you are listening to repeatedly.

increase.

Press the repeat button again to cancel.

\* It will also be canceled when the disc is ejected.

## To play randomly (in no particular order)

2

When you press the random button (RDM), [RDM] lights up and the songs on the disc are played in no particular order.

I will play. After playing all the songs, the disc is played again in no particular order.

I will return.

Press the random button again to cancel.

\* It will also be canceled when the disc is ejected.

## To scan (intro) play

3

When you press the scan button (SCN), [SCN] lights up and the beginning (intro) of the song is played for about 10 seconds.

Repeat the action of playing and moving to the next song.

If there is a song you like, press the scan button again to cancel it.

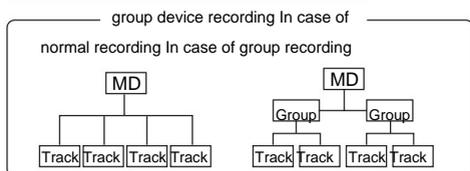
It will return to normal performance from the released song.

\* It will also be canceled in the following cases. ; Switched to another mode (radio / EXT).

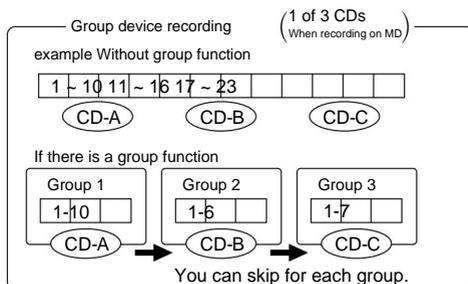
; I turned off ACC. ; I turned off the power. ; The disc was ejected.

; I operated the track skip button.

### Group function (performance) Concept of



Since the tracks in the MD are allocated to each group, longer disks can be separated and managed, which is convenient when skipping with groups or when the number of tracks is large.



**Group function operations are limited to group-registered discs.**

**[GROUP] lights up and operation is possible.**

The group function of this unit is based on the recommended method of the MD standard. Machines without group function

The group function may not work properly for discs that have been grouped or track-edited with a device.

I have.

### How to choose your favorite group

Use the group select button (or) to <sup>DIGR-</sup>display the number <sup>DIGR+</sup>of the group you want to hear.

Let me.

Press to advance to the next group <sup>DIGR+</sup>. Press to return to the previous group. <sup>DIGR-</sup>

1

### To play group repeat (repeated group)

If you press the repeat button <sup>RPT</sup> for 1.5 seconds or longer, [RPT] will blink, and the group you are listening to now.

Only the songs in the song will be played repeatedly. Press the repeat button again to cancel.

\* It will also be canceled when the disc is ejected.

1

### Group Random (in no particular order of groups) To play

If you press the random button <sup>RDM</sup> for 1.5 seconds or longer, [RDM] will blink and you will be in the group.

The order of performance is rearranged, and all songs in the group are played in no particular order.

After playing all the songs, the group will be played again in no particular order.

Press the random button again to cancel.

\* It will also be canceled when the disc is ejected.

2

### Group scan (group intro) To play

If you press the scan button <sup>SCN</sup> for 1.5 seconds or longer, [SCN] will blink and the first song in the group.

Play the head (intro) for about 10 seconds and repeat the operation to move to the next group. To care

If there is such a group, press the scan button again to cancel it. Unlocked

It returns to normal performance from the loop. \* The following cases will also be canceled.

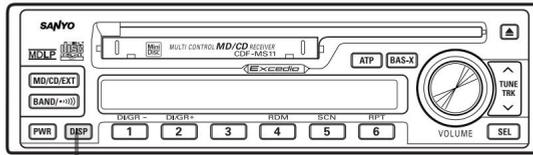
¡ Switched to another mode (radio / EXT). ¡ The disc was ejected.

¡ I operated the track skip button. ¡ I turned off ACC. ¡ I turned off the power.

3

**See page 32 for choosing your favorite song and fast-forwarding / rewinding.**

# To switch the display

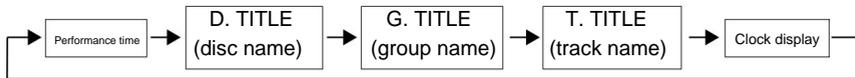


Display button

To display the playing time / disc name / group name / track name / clock

## 1 Press the display button (DISP).

Each time you press it, the display changes as follows.



\* If the disc name, group name, and track name are too long to be displayed at once, display

Press the display button (DISP) 1.5 seconds or longer. The display scrolls.

(It will make a round and stop. However, it will not work in the case of NO TTL display.)

You can also set the display to scroll automatically. z22 page

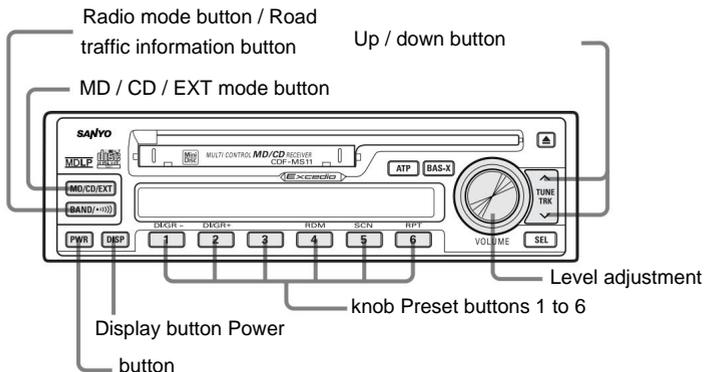
A few words

! If the disc name, group name, or track name is not recorded on the disc, that is the case.

[D: NO TTL], [G: NO TTL], and [T: NO TTL] are displayed respectively.

! If the playing time exceeds 100 minutes, the 100's place will not be displayed.

# To listen to the radio broadcast (1)



## To listen to the radio broadcast

1 Press the radio mode button ( **BAND/...** ).

Adjust the volume and sound quality according to "To adjust the audio" (page 19).  
[AM] or [FM] on the display lights up.

A few words

Area setting screen (example)

1 Tokyo

Area setting image when using for the first time after installation

The face is displayed. When selecting an area,  $\ddot{y}$

Area tuning Please see (page 37).

If you do not tune in to an area, use the level adjustment knob ( **VOLUME** ) to set [0 OFF] (no area).  
Set, press the power button ( **POWER** ) to turn off the power, or MD /  
Press the CD / EXT (changer) mode button ( **MD/CD/EXT** ) to temporarily switch to another mode.  
Then press the radio mode button ( **BAND/...** ) again to display the radio mode screen.  
please.

## To choose a band

2 Press the radio mode button ( **BAND/...** ) to select the desired band.

When you press the button  $\rightarrow$  FM1 FM2 AM1 AM2  $\rightarrow$  Will be replaced with.

When FM stereo broadcast is received, [ST] lights up on the display.

# To listen to the radio broadcast (2)

To tune in (area tuning / manual tuning / automatic tuning) (There are 3 methods:  $\ddot{y}$  /  $\ddot{y}$  /  $\ddot{y}$ )

$\ddot{y}$  **Area tuning :** Broadcasting stations in 42 areas (areas) nationwide are stored in this unit in advance. When you select an area, you can call up the stations in that area with the preset memory button. \* See pages 56-58 for memorized broadcasting stations. If you want to tune in to a station that is not stored in the unit, use manual tuning / automatic tuning (page 39).

1 Press the power button ( ) to turn off the power.

2 Press the power button ( ) for 3 seconds or longer to display the area setting screen.

Use the 3-level adjustment knob ( ) to display the area of your current location.

4 Press the radio mode button ( ) Broadcast stations are stored in the preset channels (1 to 6). \* Since the number of stations that are memorized differs depending on the region, not all channels are memorized.

\* If the station name is too long to display all at once, press the display button ( ).

Press for 1.5 seconds or longer. The station name scrolls. (It will make a round and stop.) You can also set the display to scroll automatically. z22 page

5 Select a band with the radio mode button ( ) and tune in with the preset button ( ). Each time you press the preset button ( ), the channel changes.  

Area setting screen (example)

a 

When choosing the Osaka area

a 

a 

Broadcasting station name



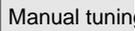
Radio operation

If you select an area to display the

frequency, the station name will be displayed in the mode display. To indicate the frequency, lightly press the display button ( ) (less than 1.5 seconds) twice for the station name frequency .

Each time you press the button, it switches. clock



Manual tuning  Changes each time the button is pressed. FM... 0.1MHz  
AM... 9kHz

Use the up / down buttons  to tune in.

Automatic channel selection : Automatically starts tuning and stops when a broadcast station is received. Broadcast of hope  
Repeat until you find a station.

Press and hold the up / down button  to the up side  or down side  for 0.7 seconds or longer to start automatic channel selection.

A few words 

[ST] lights up when FM stereo broadcast is received.

## About the radio mode button

Switches from the power off state, CD mode, MD mode, and EXT (changer) mode to radio mode.

To hear road traffic information About the road traffic information button 

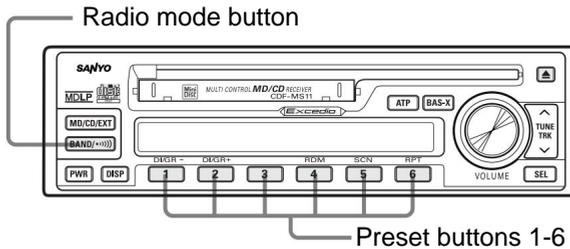
If you press the road traffic information button  for 1.5 seconds or longer, [TI 1620] will be displayed and you can listen to the road traffic information. Press the road traffic information button  again to cancel. Press the radio mode button or CD / MD / EXT (changer) mode button to switch to each mode.

A few words 

Even in CD mode / MD mode / EXT (changer) mode, you can listen to road traffic information by pressing this button for 1.5 seconds or longer.

Radio

# To memorize a broadcasting station (1)



## To manually memorize a station

### Preset tuning

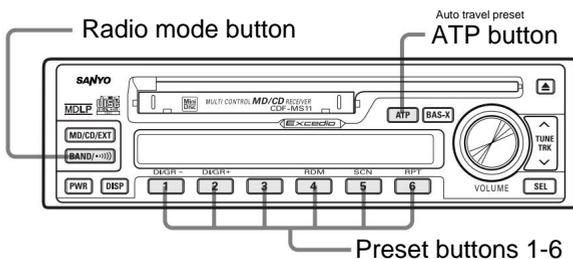
Each band (FM1, FM2, AM1, AM2) can have 6 preset memories (stores broadcasting stations).

- 1 Press the radio mode button (  ) and press the desired band (FM1, FM1,) Select FM2, AM1, AM2). z36 page
- 2 Select the station you want to tune in. z To tune in (  ) manual tuning / Pages 37 and 38
- 3 Of the preset buttons ( ~ ), press the  button of your choice for 1.5 seconds or longer. To do.

## To recall a manually memorized station

You can call it by matching the band with the radio mode button (  ) and lightly pressing the  preset button ( ~ ) (less than 1.5 seconds).

Radio operation



## To automatically memorize a broadcasting station

### Auto Travel Preset (ATP) tuning

FM6 stations and AM6 stations can be preset (memorize broadcasting stations) automatically.

- 1 Press the radio mode button (  ) to select the desired band.  
Select FM1 or FM2 for FM stations and AM1 or AM2 for AM stations.

Auto travel preset

- 2 Press the ATP button (  ) for at least 1.5 seconds.  
Press until the frequency display on the display shows [ - - - - - ].  
[ATP] flashes and automatically memorizes up to 6 strong stations.

A few words 

Auto travel preset may not be possible in areas with poor radio reception, such as in the mountains. In this case, [NO STAT.] is displayed. In this case, preset one station at a time according to the previous page.

## To call the automatically memorized ATP station

Select a band with the radio mode button (  ).  
Select FM1 or FM2 for FM stations and AM1 or AM2 for AM stations.

Auto travel preset

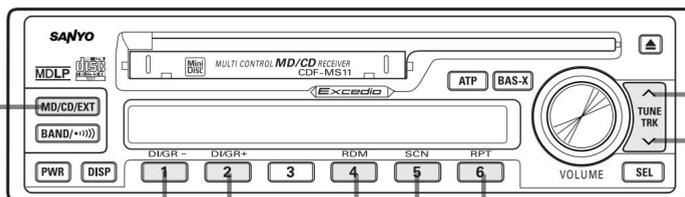
Each time you lightly press (  ) the ATP button (  ) (less than 1.5 seconds), it will be recalled in the order in which it was memorized.

# Names and functions of each part

The separately sold CD changer (CDF-C61J3) can be operated with this unit.

• is the reference page.

EXT mode button (EXT)  
Switches to EXT (changer) mode from the power off state, radio mode, and MD / CD mode. \$ 2  
\* When the power is off or switched from radio mode  
If you are in MD or CD mode, press this button again.  
again.



Disc select button (,) Select the disc you like in the changer. \$ 3

Random Button (RDM) Plays a song or disc out of order. \$\$ 4 5

Scan Button (SCN) Plays the beginning of a song or disc in sequence. \$\$ 4 5

Repeat Button (RPT)  
Repeats a song or disc. \$\$ 4 5

Track skip button (,) Select your favorite song. Also, if you hold down this button while playing, you can fast forward () or fast rewind (). \$ 3

# Before operation

## CD changer

- 1 Insert the disc into the magazine according to the instruction manual of the CD changer, and insert the magazine into the CD changer.
- 2 Press the EXT (changer) mode button  Start playing from the beginning of the first disc.  
On the CD display flashes and [EXT] lights up.
- 3 Adjust the volume and sound quality according to "To adjust the audio" (page 19).
- 4 Follow pages 43 to 45 to operate. When the last song on a disc has finished playing, it will automatically start playing from the beginning of the next disc. When the last song on the last disc of the magazine has finished playing, it will automatically start playing from the beginning of the first disc.

### A few words

If you are already in EXT (changer) mode in step 1 , you will automatically start playing from the beginning of the first disc.

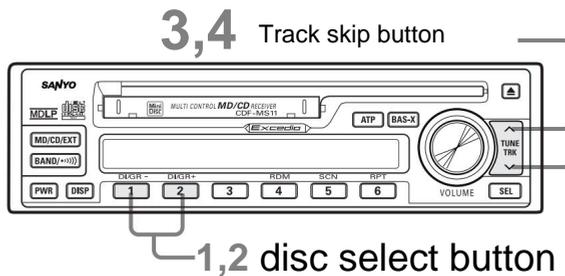
## About EXT (changer) mode button

Switches from the power off state, radio mode, CD mode, MD mode to EXT (changer) mode.

- \* If the power is off, the radio mode is switched to the CD / MD mode, press this button again.
- \* When using the CD changer for the first time or changing the magazine, the performance starts from the first song of the first disk. Also, when the last song on the disc has finished playing, it will automatically start playing from the beginning of the next disc. When the last song on the last disc of the magazine is finished, it will automatically start playing from the beginning of the first disc.

Opera

# To play (1)



Please refer to the above number and the following explanation.

## How to choose your favorite disc or song

### How to choose the disc you want to listen to

Use the disc select button ( ) to display the number of the disc you want to hear.

Press ( ) to advance to the next disc.

Press ( ) to return to the previous disc.

### How to choose your favorite song

Use the track skip button ( ) to display the track number of the song you want to hear.

Press Side ( ) to advance to the next track. Press the side ( ) twice to return to the previous track. \* Press the side ( ) once to return to the beginning of the song you are listening to.

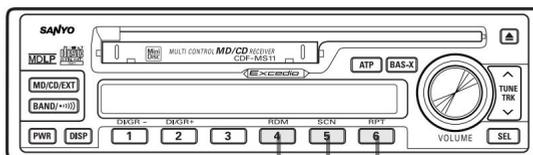


### To find a favorite place in the middle of a song

Press and hold the track skip button (or ) to fast forward or rewind

You can find your favorite part of the song you are playing. Press and hold the side ( ) to fast forward. To return with fast rewind, press and hold the side ( ). When you release each button, you can

start playing. Hold down the track skip button and pause at the beginning or end of the disc.



2 Random

button 3 Scan

button 1 Repeat button

Please refer to the above number and the following explanation.

## To play various music

### To play repeatedly

1

When you press the repeat button (, [RPT] lights up and the song you are listening to is played repeatedly. Press the repeat button again to cancel. \* It will also be canceled when the magazine is ejected. To play randomly (in no particular order)

2

When you press the random button (, [RDM] lights up and the songs on the disc you are listening to are played in no particular order. When all songs have been played, the operation of playing the disc in no particular order is repeated. Press the random button again to cancel. \* It will also be canceled when the magazine is ejected.

### To scan (intro) play

3

When you press the scan button (, [SCN] lights up, and the beginning (intro) of the song on the disc you are listening to is played for about 10 seconds, and the operation to move to the next song is repeated. If there is a song you like, press the scan button again to cancel it. It will return to normal performance from the released song. \* It will also be canceled in the following cases. ; Switched to another mode (radio / MD / CD).

- ; I turned off ACC. ; I turned off the power. ; Ejected the magazine. ; I operated the track skip button.

Opera

# To play (2)

## To play disc repeat (repeat disc)

1

If you press the repeat button () for 1.5 seconds or longer, [RPT] will blink and the disc you are listening to will be played repeatedly. Press the repeat button again to cancel. \* It will also be canceled when the magazine is ejected.

## To play discs randomly (in any order of discs)

2

If you press the random button () for 1.5 seconds or longer, [RDM] will blink, the order of playing the discs will be rearranged, and all the songs on the disc will be played in no particular order to move to the next disc. I repeat. Press the random button again to cancel. \* It will also be canceled when the magazine is ejected.

## Disc Scan (Disc Intro) To play

3

If you press the scan button () for 1.5 seconds or longer, [SCN] will blink, and the beginning (intro) of the first song on the disc will be played for about 10 seconds, and the operation to move to the next disc will be repeated. If you like the disc, press the scan button again to release it. It will return to normal performance from the released disc. \* The following cases will also be canceled.

; I turned off ACC. ; I turned off the power. ; Ejected the magazine. ; Switched to another mode (radio / MD / CD). ; I operated the track skip button.

# About message display

The following message may be displayed while operating a CD or MD.

Follow the procedure below.

Display	Origin	Placement
DISC ERR	<p>(CD) The disc is set in reverse It has been.</p> <p>The disc is dirty.</p> <p>(MD) There is something wrong with the disc.</p>	<p>Insert the disc correctly.</p> <p>Wipe off any dirt on the disc.</p> <p>Try inserting another disc. If the display disappears, there may be something wrong with the previous disc.</p>
NO DISC	(CD) (MD) There is no disk in the unit / magazine.	Please insert the disc.
NO MAG	(CD) There is no magazine in the CD changer.	Please insert the magazine.
BLK. DISC	(MD) An unrecorded disc is set.	Replace it with a recorded disc.
NO CNECT	(CD) The CD changer is not connected.	Connect the CD changer.
NOT AUDI	(CD) (MD) A disk other than a music disc is set.	Insert the correct disc.

othe

# Before installation (1)

q Be sure to read "Safety Precautions" (pages 5-9) before wiring and installation when.

q Follow "Wiring" (pages 49 and 50) and "Installation" (page 51). Please wire and install correctly.

## About memory

To prevent short-circuit accidents, remove the \_ terminal of the battery during wiring work, but at this time, this unit and other devices (car stereo, clock, drive computer, navigation computer, etc.) that are backing up from the battery are It may stop or the memory may disappear. In such a case, set again after wiring and installation are completed.

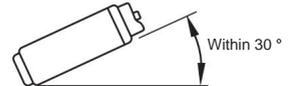
## About speaker cord connection

Observe the following to prevent the machine from malfunctioning or being damaged.

ı Be sure to use a speaker with an impedance of 4 $\Omega$  to 8 $\Omega$ . ı For the speaker installation, refer to the speaker manual. ı Never connect the speaker cord of this unit to the power supply. ı Be careful not to mistake the polarity + \_ of the speaker cord.

## About mounting angle

Install it so that it is as horizontal as possible to prevent vibration caused by the unevenness of the road surface. When tilting, make sure that the angle is within 30  $^{\circ}$ .



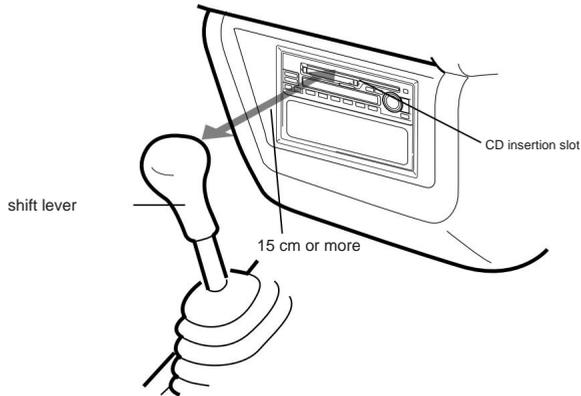
others

## About installation location

Please avoid the following places.

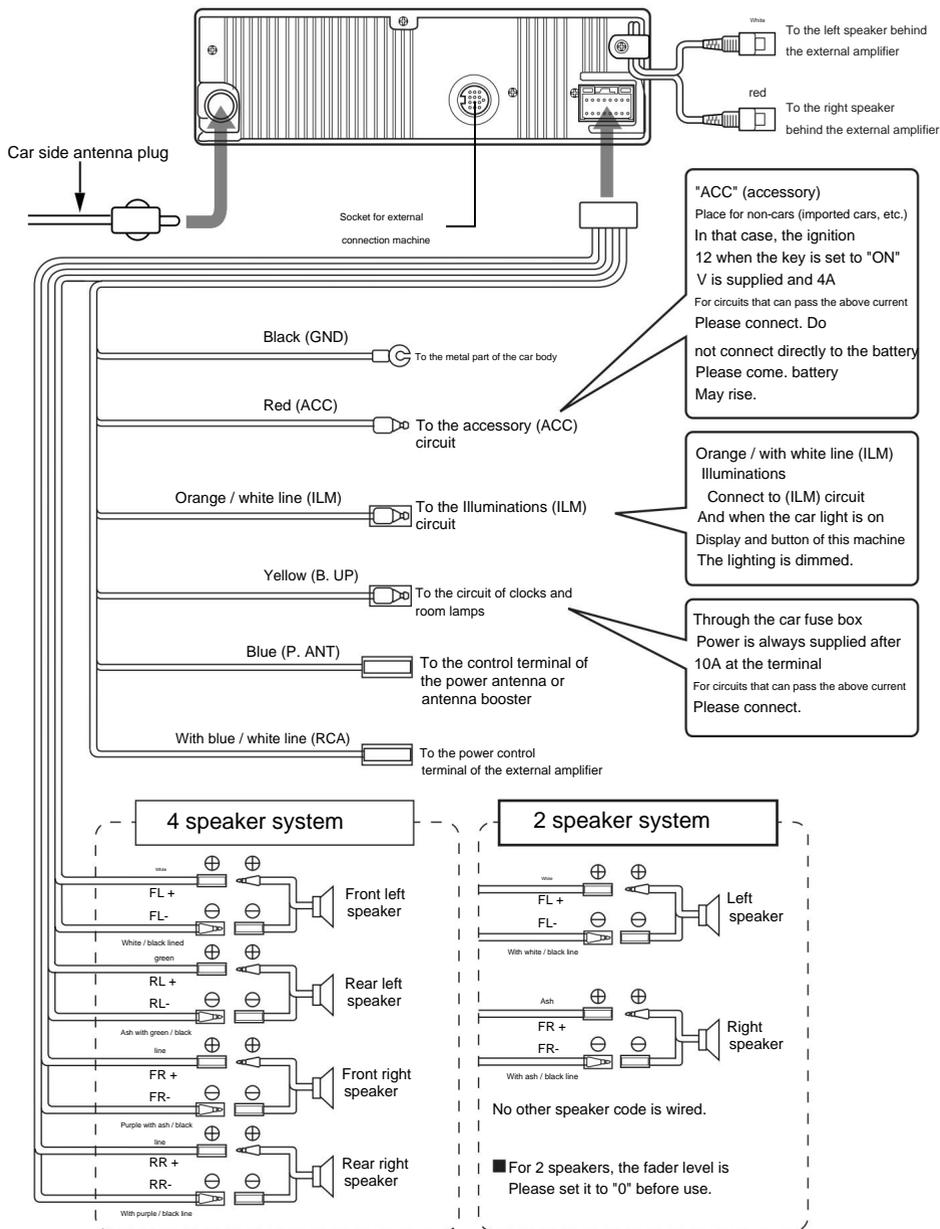
- ; Places that interfere with driving
- ; Places that impair the safety of passengers
- ; Places that hinder the opening and closing of the glove box lid and the loading and unloading of ashtrays
- ; Dusty place
- ; Magnetic place.
- ; A place exposed to direct sunlight or hot air from a heater. Where it rains or gets wet, where it gets damp
- Many places

In order to insert and remove the CD, a distance of 15 cm or more from the CD insertion slot is required. Depending on the position of the shift lever, it may be difficult to insert and remove the CD, so make sure that it does not interfere with the shift operation of the car before setting the mounting location.



othe

# Wiring method (1)



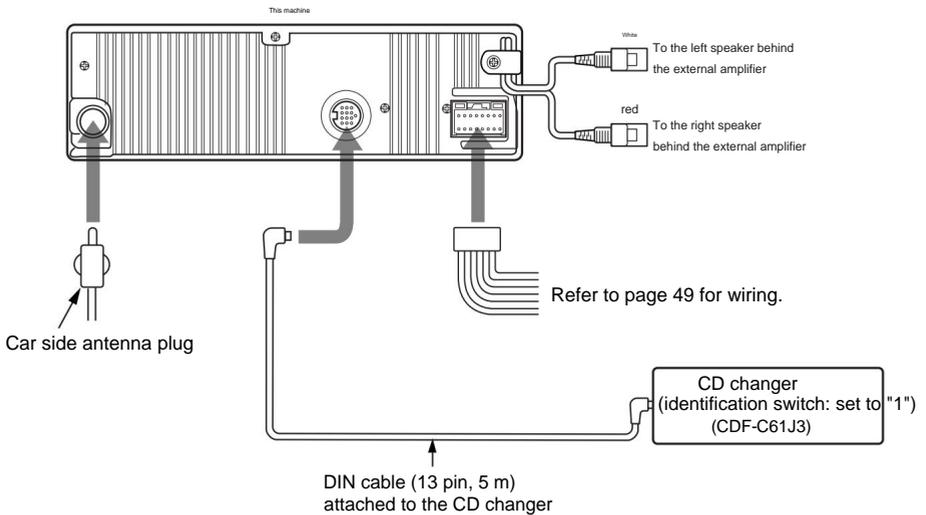
ancestor  
of  
other

A few words

- ⌋ The unit will not operate unless both the red (ACC) cord and the yellow (B.UP) cord are connected.
- ⌋ If you are using only an external amplifier, there will be no button operation sound.
- ⌋ If you do not have an illumination (ILM) circuit, use the orange / white lined (ILM) code. plug.

## When connecting a CD changer

See also the instruction manual for the CD changer.



# How to install

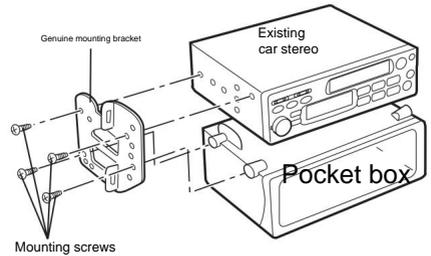
Installation depends on the model and model year.

Temporarily wire before installing and fixing, and the machine operates normally without any mistakes in the wiring. Please make sure that.

Example when installing on a 2DIN size adopted vehicle

1 Genuine mounting bracket from the existing car stereo

Remove. (At this time, the removed screw  
Please be careful not to lose it.)



2 4 attached countersunk screws (M5 x 8 mm) or 4 bind head screws (M5 x 8 mm)

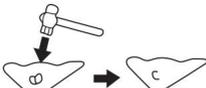
Use to fix the genuine mounting bracket to this machine.

Since the shape of the genuine mounting bracket differs depending on the model, the mounting holes on the side of this machine are genuine mounting brackets. Please use the place where the ingredients fit.

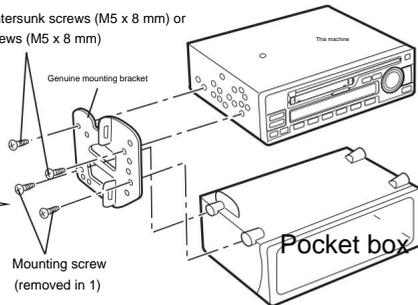
Genuine depending on the model

The protrusion of the mounting bracket hits

There is a part. this  
When, hang the protrusion  
Hit with a mar etc.  
Flatten and then install  
Please take it.



Included countersunk screws (M5 x 8 mm) or  
bind head screws (M5 x 8 mm)



\* The above mounting method is an example of a Toyota car.

ancestor  
of  
other

A few words

¡ A 2DIN-adopted vehicle is commonly known as an audio space with a set width of 180 mm and a height of 100 mm.

It is a car that can be installed.

¡ When using the mounting holes on the back of this machine, use M5 x 8 (MAX) screws.

# Is it a malfunction? If you think

It may be mistaken for a malfunction due to a slight operation error or wiring error. Please check the following before requesting repair.

Symptom	Origin	Placement
can not turn on	Incomplete power cord connection.	Check the power cord connection.
There is no sound.	Incomplete speaker cord connection.	Check the speaker cord connection.
	<sup>volume</sup> VOL (volume) is low.	Therefore, increase the <sup>volume</sup> VOL (volume) according to "To adjust the audio" (page 19).
Even if I insert the CD, it comes out.	The CD is terribly dirty.	Try cleaning the CD. (Refer to "Handling CDs" on page 11.)
	The ambient temperature is extremely high.	Please use after lowering the temperature inside the car.
	There is condensation.	Please use it after leaving it for a while.
The sound of the CD skips due to vibration.	The installation is bad.	Please fix it firmly.
	Bad CD.	Please listen to other CDs. If it improves, the CD may be defective.
	The CD is dirty.	Try cleaning the CD. (Refer to "Handling CDs" on page 11.)
The sound quality of the CD is poor.	Bad CD.	Please listen to other CDs. If it improves, the CD may be defective.
	The CD is dirty.	Try cleaning the CD. (Refer to "Handling CDs" on page 11.)
	There is condensation.	Remove the CD and leave the unit for a while before using it.
The CD does not fit.	I already have a CD or MD and am trying to insert a second one.	Remove the CD or MD that is included, and then insert the next CD.

othe

# Is it a malfunction? If you think

Symptom	Origin	Placement
MD does not enter.	I already have a CD or MD and am trying to insert a second one.	Remove the CD or MD that is included, and then insert the next MD.
	The direction to insert MD is different	Insert it in the direction of c with the side with c facing up.
Even if I put in MD, it comes out.	The ambient temperature is extremely high.	Please use after lowering the temperature inside the car.
	There is condensation.	Please use it after leaving it for a while.
Noise occurs in the MD playback sound, or the sound skips.	The mounting angle of this machine exceeds 30 degrees.	Install at an angle of 30 degrees or less.
	The installation is bad.	Securely fix the machine.
The radio doesn't ring.	Incomplete antenna connection.	Check the antenna connection.
Automatic tuning is not possible.	weak signal.	Please tune in manually.
The radio sensitivity is poor.	The antenna is not fully extended	Please extend all the antennas.
There is no sound from either the front speakers or the rear speakers.	<sup>Fedder</sup> Level is FAD on one side.	Adjust the FAD level according to "To adjust the audio" (page 20). For 2 speakers, set to "0".

**† Warning** Never disassemble or repair the machine by anyone other than a service person.

It may cause an accident, fire or electric shock.

others



Affection check

Check the car audio you have been using for many years!

( Due to the effects of heat, humidity, dust, etc. and the degree of use, the product may deteriorate and break down, and in some cases, it may impair safety and lead to an accident. )

Do you have any of these symptoms?

• No sound or display is output even when the power switch is turned on. • The sound does not disappear even when the power switch is turned off. • It smells strange or smokes. • Water or foreign matter has entered the inside. • There are other abnormalities or malfunctions.

Discontinuation

To prevent breakdowns and accidents, discontinue use and be sure to sell. Please contact the shop.

# Main Specifications

## (CD player section)

S / N	85dB
Frequency characteristics	5 to 20,000Hz
Harmonic distortion rate	0.05% (1kHz)

## (MD player section)

S / N	90dB
Frequency characteristics	20-20,000Hz Wow and flutter measurement limit or less

## (Tuner section)

Circuit method	AM / FM / MPX Radio PLL method
Reception frequency	FM 76.0-90.0MHz AM 522-1629kHz
Practical sensitivity	FM 12dBf AM 28dB
S / N ratio	FM 60dB AM 50dB
Stereo separation	FM 35dB distortion FM 0.3% AM 0.5%

## (Common part)

Power supply voltage	DC12V (11V to 16V) Performance measurement Standard input: DC14.4V minus (-) ground
Maximum output	45W x 4
Rated output	25W x 4 (5% distortion, DC14.4V, 4 $\Omega$ load)
Maximum current consumption	10A
Sound quality adjustment	BASS: $\pm$ 10dB (100Hz) TREBLE: $\pm$ 10dB (10kHz)
External dimensions	178 x 100 x 165.5 mm (width x height x depth)
mass	1.4kg

\* Specifications and appearance of this machine are subject to change without notice for performance improvement.

## (accessories)

Countersunk screw	M5 x 8mm 4 pieces
Bind head screw	M5 x 8mm 4 pcs

othe

# After-sales service

## 1. Warranty card

This product comes with a warranty card. Please check the

"Store name / Date of purchase" and other information at the store where you purchased the product, read the contents carefully, and save the warranty card in a safe place. The warranty period is one year from the date of purchase.

## 2. When requesting repair | During the

warranty period, please bring the

product with the warranty card to the store where you purchased it. We will repair according to

the contents of the warranty. | If the warranty period has expired, please contact the store where

you purchased the product. If it can be used for repair, we will repair it for a fee at the request of the customer.

## 3. Retention period of performance parts for repair

We have the repair performance parts necessary to maintain the function of this machine for 8 years after the production is discontinued. 4. If the product becomes unusual during use, immediately discontinue use and request inspection / repair from the store where you purchased the product.

| Disassembling and repairing by yourself is dangerous. Special techniques are required for repairs. 5. If you have any questions about after-sales service

For inquiries regarding repair services and products, contact the store where you purchased the product. If you have any problems with moving or gifts, please contact the attached sheet near you or the "Customer Service Desk" below.

## Customer consultation desk

### Sanyo Electric Service Co., Ltd.

#### Consultation

reception hours Monday to Saturday (excluding holidays and our holidays) 9:00 to 12:00, 13:00 to 17:30

- Hokkaido area 1 bill hood (011) 831-9200
- Tohoku area 1 Sendai (022) 382-5616
- Kanto area 1 Tokyo (03) 3372-5701
- Chubu District 1 Nagoya (052) 451-3335
- Kinki Shikoku District 1 Osaka (06) 6993-2251
- others
- Chugoku District 1 Hiroshima (082) 295-3799
- Kyushu area 1 Fukuoka (092) 922-6440
- Okinawa area Okinawa Sanyo Sales Co., Ltd. Service Department 1 Naha (098) 944-5018

\* Please note that the address and phone number of the customer service center are subject to change without notice. \* Please check the phone number carefully when calling. 55

# Area tuning memory station list

It is a list of broadcasting stations that can be called by area selection.

area	button	FM1 MHz	FM2 MHz NHK-FM	AM1 kHz	AM2 kHz
1 Tokyo area y y Tōkyōchihama y 56 Tama y y	1	FM TOKYO 80.0 81.3 J-WAVE bay-	Yokohama 81.9 FM Yokohama 84.7	NHK Radio 1 594 Radio Japan 1422	NHK second 693
	2	fm 78 78.0 FM-FUJI	Broadcasting University1	AFN 810	.
	3	78.6 NACK5 79.5 NHK- Tokyo 82.5	Inter FM 76.1	TBS Radio 954 Nippon Cultural Broadcasting 1134 Nippon Broadcasting	1242
	4		.	.	.
	5 6		.	.	.
2 Osaka area y Osaka y y Kyoto y y	1	fm osaka 85.1 FM802 80.2 NHK-FM Kyōto 82.8	NHK-FM Kobe 86.5 FM Shiga 77.0 FM CDD • LO 76.5	Radio Kansai 558 NHK Daiichi 666 Radio Osaka 1314	NHK second 828
	2	NHK-FM Osaka 88.1 y- STATION 89.4 Kiss- FM 89.9	.	ABC Radio 1008 KBS Kyoto 1143 MBS Radio 1179 Radio	.
	3		.	.	.
	4		.	.	.
	5 6		.	.	.
22 Otsu	1	fm osaka 85.1 FM802 80.2 NHK-FM Kyōto 82.8	FM Shiga 77.0	Kansai 558 NHK Daiichi 666 Radio Osaka 1314	NHK second 828
	2	NHK-FM Otsu 84.0	.	ABC Radio 1008 KBS Kyoto 1143 MBS Radio 1179 Radio	.
	3	NHK-FM Osaka 88.1 y- STATION 89.4	.	.	.
	4		.	.	.
	5 6		.	.	.
23 Nara	1	fm osaka 85.1 FM802 80.2 NHK-FM Kyōto 82.8	FM Shiga 77.0	Kansai 558 NHK Daiichi 666 Radio Osaka 1314	NHK second 828
	2	NHK-FM Nara 87.4	.	ABC Radio 1008 KBS Kyoto 1143 MBS Radio 1179	.
	3	NHK-FM Osaka 88.1 y- STATION 89.4	.	.	.
	4		.	.	.
	5 6		.	.	.
39 Kumamoto	1	FM Nakakyushu 77.4 FM Saga 77.9 FM	NHK-FM Saga 81.6	NHK Radio 1 756 NHK 2nd 873	.
	2	Fukuoka 80.7 CR06S	.	NHK Radio 1 963 Kumamoto Broadcasting 1197	.
	3	78.7 NHK-FM Kumamoto	.	RKB Mainichi Broadcasting 1278 Kyushu Asahi Broadcasting 1413	.
	4	85.4 NHK-FM Fukuoka	.	.	.
	5 6	84.8	.	.	.

Area 3	button	FM1 MHz	AM1 kHz
Nagoya area y y Nagoya y Gifu y	1	FM-AICHI 80.7 ZIP-FM 77.8 FM Mie 78.9 NHK- Tsu 81.8 NHK-FM	NHK 1 729 NHK 2nd 909 Chubu Nippon Broadcasting
	2	Nagoya 82.5 NHK-FM	1053 Tokai Radio 1332
	3	Gifu 83.6 FM2 MHz	Gifu Broadcasting 1431
	4	RADIO-i 79.5	.
	5 6		.
4 Sapporo	1	AIR-G 80.4 FM North Wave 82.5 NHK-FM	NHK Radio 1 567 NHK 2nd 747
	2	Sapporo 85.2	HBC Radio 1287
	3 4		STV Radio 1440
5 Aomori	1	FM Aomori 80.0 NHK- FM Aomori 86.0	HBC Radio 900 NHK Daiichi 963 Aomori Broadcasting 1233
	2		.
	3		.
	4		NHK 2nd 1521

area	button	FM1 MHz	AM1 kHz
6 Akita	...	FM Akita 82.8 NHK-FM Akita 86.7	NHK 2nd 774 Akita Broadcasting System 936 NHK 1st 1503
7 Morioka	...	FM Iwate 76.1 NHK-FM Morioka 83.1	NHK Radio 1 531 Iwate Broadcasting 684 NHK 2nd 1386
8 Yamagata	...	FM Yamagata 80.4 NHK- FM Yamagata 82.1	NHK Daiichi 540 Yamagata Broadcasting 918 NHK 2nd 1521
9 Sendai	...	FM Sendai 77.1 NHK- FM Sendai 82.5	NHK 1 891 NHK 2nd 1089 Tohoku Broadcasting 1260

# Area tuning memory station list (2)

Area 10	button	FM1 MHz	AM1 kHz	area	button	FM1 MHz	AM1 kHz
Fukushima	1	Fukushima FM 81.8 NHK-FM Fukushima 85.3	NHK Daiichi 846 Radio Fukushima 1098 NHK 1323 Radio Fukushima 1458 NHK 2nd 1512 NHK 2nd 1602	17 Tsu	1	FM Mie 78.9 NHK 1st 729 909 FM-AICHI 80.7 NHK Nagoya 82.5	ZIP-FM 77.8 NHK 2nd NHK 2nd 1323 NHK 2nd 1458
	2	-	-		2	-	-
	3	-	-		3	-	-
	4	-	-		4 5	-	-
	5 6	-	-		-	-	-
11 Utsunomiya	1	Radio Berry 76.4 FM Gunma 86.3 The Open University of Japan 78.6 FM Utsunomiya 80.3 NHK-FM Mito 83.2	NHK Radio 1 594 Tochigi Broadcasting 1530 TBS Radio 954 Cultural Broadcasting 1134 Ibaraki Broadcasting 1197 Nippon Broadcasting System 1242	18 Niigata	---	FM Niigata 77.5 NHK-FM Niigata 82.3	NHK Radio 1 837 Niigata Broadcasting 1116 NHK 2nd 1593
	2	-	-		---	-	-
	3	-	-		---	-	-
	4	-	-		---	-	-
	5 6	-	-		---	-	-
12 Mito	1	FM Gunma 86.3 The Open University of Japan 78.6 FM Utsunomiya 80.3 NHK-FM Mito 83.2	NHK Radio 1 594 NHK 2nd 693 TBS Radio 954 Cultural Broadcasting 1134 Ibaraki Broadcasting 1197 Nippon Broadcasting System 1242	19 Toyama	1	FM Toyama 82.7 NHK-FM Toyama 81.5	NHK Radio 1 648 Kitanihon Broadcasting 738 NHK 2nd 1035 Hokuriku Broadcasting 1107
	2	-	-		2	-	-
	3	-	-		3 4	-	-
	4	-	-		---	-	-
	5 6	-	-		---	-	-
13 Maebashi	1	FM TOKYO 80.0 FM Gunma 86.3 The Open University of Japan 78.8 NHK-FM Maebashi 81.6	NHK Radio 1 594 Radio Japan 1422 AFN 810 TBS Radio 954 Nippon Cultural Broadcasting 1134 Nippon Broadcasting System 1242	20 Kanazawa	---	FM Ishikawa 80.5 NHK-FM Kanazawa 82.2	Hokuriku Broadcasting 1107 NHK 1st 1224 NHK 2nd 1386 Fukui
	2	-	-		---	-	-
	3	-	-		---	-	-
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14 Kofu	1	FM-FUJI 83.0 NHK-FM Kofu 85.6	Broadcasting 765 NHK 1 927 TBS Radio 954 Nippon Cultural Broadcasting 1134 Nippon Broadcasting System 1242	21 Fukui	---	FM Fukui 76.1 NHK-FM Fukui 83.4 FM Shiga 77.0	Broadcasting 864 NHK 1st 927 NHK 2nd 1521 Osaka 85.1 Radio Kansai 558
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	3	-	-		---	-	-
	4	-	-		---	-	-
	5 6	-	-		---	-	-
15 Matsumoto	1	FM Nagano 79.7 FM Nagano 86.4 NHK-FM Nagano 84.0 NHK-FM Matsumoto 84.8	NHK Radio 1 540 NHK Radio 1 819 Shin-etsu Broadcasting 864 Shin-etsu Broadcasting 1098 NHK 2nd 1467 NHK 2nd 1512	24 Wakayama	1	FM802 80.2 NHK 1st 866 ABC Radio 1008 Dairi 84.7 2nd 1125 NHK 1st 1368	NHK Radio 1 84.7 NHK Radio 1 1008 Sanin Broadcasting 1431
	2	-	-		2	-	-
	3	-	-		3	-	-
	4	-	-		4	-	-
	5 6	-	-		5 6	-	-
16 Shizuoka	1	K-MIX 79.2 NHK-FM Shizuoka 88.8	NHK 2nd 639 NHK 1 882 TBS Radio 954 Nippon Cultural Broadcasting 1134 Nippon Broadcasting 1242 Shizuoka Broadcasting 1404	25 Tottori	1	FM Sanin 78.8 NHK-FM Tottori 85.8	Broadcasting System of Sanin 900
	2	-	-		2	-	-
	3	-	-		3 4	-	-
	4	-	-		---	-	-
	5 6	-	-		---	-	-
others	1	-	-	26 Shimane	1	FM Sanin 77.4 NHK-FM Matsue 84.5	NHK Daiichi 1296 Sanin Broadcasting 1431 NHK 2nd 1593
	2	-	-		2	-	-
	3	-	-		3 4	-	-
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	5 6	-	-		---	-	-
27 Hiroshima	1	Hiroshima FM 78.2 NHK-FM Hiroshima 88.3	NHK Radio 2 702 Yamaguchi Broadcasting 918 NHK Radio 1 1071 Nankai Broadcasting 1116 China Broadcasting AFN 1575	28 Yamaguchi	1	FM Yamaguchi 79.2 NHK-FM Yamaguchi 85.3	NHK Radio 1 675 Yamaguchi Broadcasting 765 NHK 2nd 1377
	2	-	-		---	-	-
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Area	button	FM1 MHz	AM1 kHz	Area	button	FM1 MHz	AM1 kHz
29 Okayama	1	FM Kagawa 78.6 NHK-FM Takamatsu 86.0 NHK-FM	Radio Kansai 558 NHK Radio 1 603	36 saga	1	FM Nakakyushu 77.4 NHK NHK 1st 963 FM Fukuoka 89.7 NHK CROSS FM	2nd 873 FM Saga 77.9 Broadcasting 1278 NHK FM Nagasaki 90.5
	2	Okayama 88.7 FM Okayama	ABC Radio 1008 Daily		2	Broadcasting 1278 NHK FM Nagasaki 90.5	NHK Mainichi Broadcasting 1233 NHK
	3	76.8	Broadcast 1179		3	1458 NHK 1st 684 Nagasaki 90.5	
	4	-	NHK Radio 1 1368 Sanyo		4	-	
	5	-	Broadcasting 1494		5	6	
	12		AM2 kHz Nishinippon Broadcasting 1449 NHK 2nd 1386 Radio		37 Nagasaki	---	SMILE FM 79.5 NHK-FM Nagasaki 84.5
30 Takamatsu	1	FM Kagawa 78.6 NHK-FM Takamatsu 86.0 NHK-FM	Kansai 558 NHK Radio 1 603	38 Oita	---	FM Oita 88.0 NHK-FM Oita 88.9	NHK Radio 1 639 Oita Broadcasting 1098 NHK 2nd 1467
	2	Okayama 88.7	ABC Radio 1008 Daily	40 Miyazaki	---	JOY FM 83.2 NHK-FM Miyazaki 86.2	NHK Daiichi 540 Miyazaki Broadcasting 936 NHK 2nd 1467
	3	-	Broadcast 1179	41 Kagoshima	---	Mu FM 79.8 NHK-FM Kagoshima 85.6	NHK Radio 1 576 South Japan Broadcasting 1107 NHK 2nd 1386
	4	-	NHK Radio 1 1368 Sanyo	42 Okinawa	1	FM Okinawa 87.3 NHK- FM Okinawa 88.1	NHK Radio 1 549 AFN 648 Ryukyu Broadcasting 738 Radio Okinawa 864 NHK 2nd 1125
	5	-	Broadcasting 1494		2	-	
	12		AM2 kHz Nishinippon Broadcasting 1449 NHK Radio 2 1035 Radio		3	-	
31 Tokushima	1	FM Tokushima 80.7 NHK- FM Tokushima 83.4	Kansai 558 Radio Osaka 1314		4	-	
	2	-	NHK Radio 1 945		5	-	
	3	-	ABC Radio 1008 MBS		6	-	
	4	-	Radio 1179 Shikoku				
	5	-	Broadcasting 1269				
	1		AM2 kHz NHK 2nd 828				
32 Matsuyama	1	FM Ehime 79.7 NHK-FM Matsuyama 87.7	NHK Radio 1 963 Nankai Broadcasting 1116 China				
	2	-	Broadcasting 1350				
	3	-	NHK 2nd 1512				
33 Kochi	---	FM Kochi 81.6 NHK-FM Kochi 87.5	Kochi Broadcasting 900 NHK Radio 1 990 NHK 2nd 1152				
	---	-					
34 Fukuoka	1	FM Fukuoka 80.7 FM Saga 77.9 CROSS FM	NHK Radio 1 612 NHK 2nd 1017				
	2	NHK-FM Saga 81.6 NHK- FM Fukuoka 84.8 LOVE	RKB Mainichi Broadcasting 1278 Kyushu Asahi Broadcasting 1413				
	3	FM Fukuoka 84.8 LOVE					
	4	FM 76.1					
	5	-					
	6	-					
35 Kitakyushu	1	FM Fukuoka 80.0 FM Yamaguchi 77.7 CROSS	NHK Daiichi 540 Kyushu Asahi Broadcasting 720 Yamaguchi				
	2	77.0 NHK-FM Kitakyushu	Broadcasting 918				
	3	85.7 LOVE FM 82.7	RKB Mainichi Broadcasting 1197				
	4	-	NHK 2nd 1602				
	5	-					

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Product number	<b>CDF- MS 11</b>
Date of purchase	<b>years</b>
Purchase store	
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Consumer Sales Headquarters

## 三洋マルチメディアセールス株式会社

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