
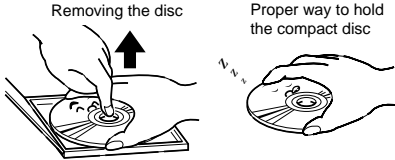


4. HANDLING COMPACT DISCS

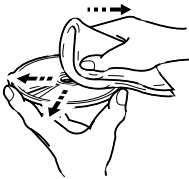
This unit has been designed specifically for playback of compact discs bearing the  mark. No other discs can be played.

To remove the compact disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.

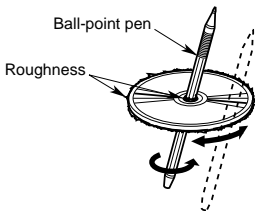


Always handle the compact disc by the edges. Never touch the surface.

To remove fingermarks and dust, use a soft cloth, and wipe in a straight line from the center of the compact disc to the circumference.



New discs may have some roughness around the edges. The unit may not work or the sound may skip if such discs are used. Use a ball-point pen, etc. to remove roughness from the edge of the disc.



Note:

Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These may get caught in the internal mechanism and damage the disc.

Note on Compact Discs

Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.



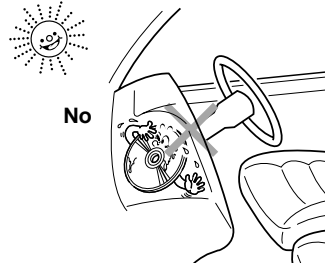
Do not use any solvents such as commercially available cleaners, anti-static spray, or thinner to clean compact discs.



Do not use compact discs that have large scratches, are misshapen, or cracked, etc. Use of such discs will cause misoperation or damage.



Do not expose compact discs to direct sunlight or any heat source.



5. BUTTON TERMINOLOGY

Note: Be sure to read this chapter referring to the front diagrams of chapter "2. CONTROLS" on page 5 (spread).

- 1 TAPE (▲ : Tape Eject) Button [Ⓜ]
- 2 SLOPE Button
- 3 CD (▲ : CD Eject) Button [ⓐ]
- 4 TAPE Indicator (TAPES) [Ⓜ]
- 5 EQ (Equalizer) Indicator (EQ) [Ⓜ]
- 6 A-M (Audio Mode) Button
- 7 VISU (Visual) Button
- 8 DISC Indicator (DISC) [ⓐ]
- 9 L (Monitor Lock) Indicator (L)
- 10 ADJ (Adjust) Button [Ⓜ]
- 11 Up/Down (▲ (Up)/▼ (Down), ◀ (Left)/▶ (Right)) Buttons
ENT (Enter ▶/||) Button
- 12 FUNC (Power/Function) Button
- 13 BND (Band/Program) Button [Ⓜ], [Ⓜ]
MAG (Magazine) Button [ⓐ]
- 14 Receiver for remote control
- 15 EQ (Equalizer) Button
- 16 Preset Button [Ⓜ]
Disc No. Button [ⓐ]
Preset Scan Button [Ⓜ]
Scan Button [Ⓜ], [ⓐ], [ⓐ]
- 17 Preset Button [Ⓜ]
Disc No. Button [ⓐ]
Auto Store Button [Ⓜ]
Repeat Button [Ⓜ], [ⓐ], [ⓐ]
- 18 Preset Button [Ⓜ]
Disc No. Button [ⓐ]
Dolby NR Button [Ⓜ]
Random Button [ⓐ], [ⓐ]
- 19 Preset Button [Ⓜ]
Disc No. Button [ⓐ]
Blank Skip Button [Ⓜ]
- 20 Preset Button [Ⓜ]
Disc No. Button [ⓐ]
Monaural Button [Ⓜ]
- 21 Preset Button [Ⓜ]
Disc No. Button [ⓐ]
- 22 SHIFT Button [Ⓜ], [ⓐ]

- 23 TITLE Button
- 24 ISR (Instant Station Recall) Button [Ⓜ]
- 25 MONI (Monitor) Button
- 26 DISP (Display) Button
- 27 **Display**
- 28 Close Button [Ⓜ], [ⓐ]
- 29 Eject (▲) Button [Ⓜ], [ⓐ]
- 30 **Cassette Insertion Slot** [Ⓜ]
- 31 **CD Insertion Slot** [ⓐ]

[Ⓜ] : In Radio Mode

[Ⓜ] : In Tape Mode

[ⓐ] : In CD Mode

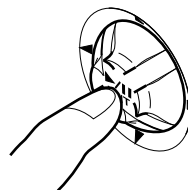
[ⓐ] : In CD Changer Mode

First Finger Control Operation

By sliding the Up/Down button 11 up ▲, down ▼, right ▶, or left ◀, you can select various items and make settings. This function is called the First Finger Control Operation. With this function, you can select a menu or track, control the volume, or change a frequency according to the operation mode.



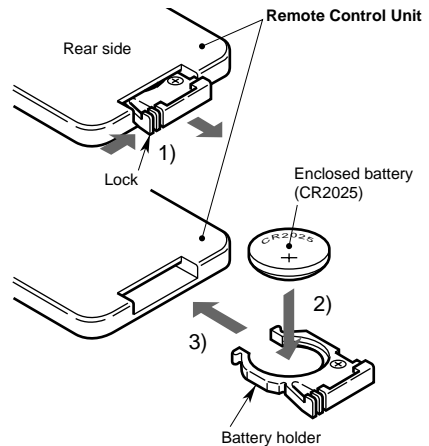
Press the center of the ENT button (ENT) 11 to execute a selected menu, play/pause, or mute on/off.



6. REMOTE CONTROL

Inserting the Battery

- 1) Turn the remote control unit upside down, push the lock in the direction of the arrow, and pull out the battery holder.
- 2) Insert the enclosed battery (CR2025) with the "+" side facing up.
- 3) Push the battery holder back in securely until a click is heard.



Notes:

Using batteries improperly can cause them to explode. Take note of the following points:

- When replacing the battery, be sure to set the new battery with the "+" side facing up.
- Do not short-circuit, disassemble or heat batteries.
- Do not dispose of batteries in flames.
- Dispose of spent batteries in the proper place.

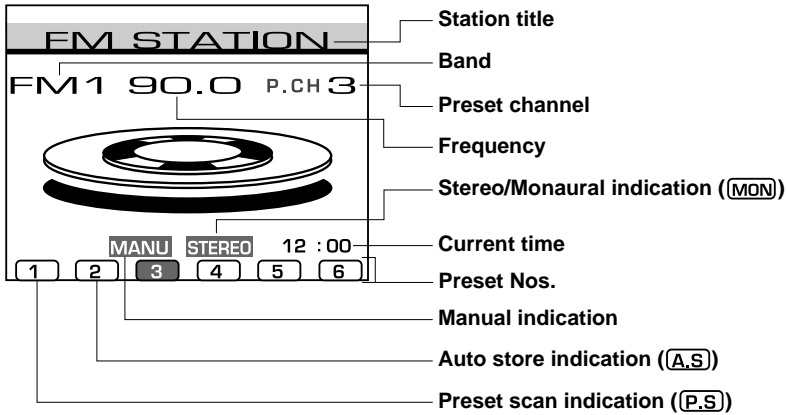
Functions of Remote Control Unit Buttons

Button	Tape Mode [Ⓜ]	Radio Mode [Ⓡ]	CD Mode [Ⓒ]/CD Changer Mode [ⒸⒸ]
1] FUNC (POWER)	Turns power on, switches between tape, radio, and CD, and turns power off when pressed for 1 second or longer.		
2] BAND (BAND/DISC/PROG)	Switches playback direction and cancels scan play.	Switches reception band.	Switches the disc (only in CD changer mode).
3] ▲ (VOLUME UP)	Turns volume up.		
4] ▼ (VOLUME DOWN)	Turns volume down.		
5] ◀ (SEARCH DOWN)	REW, APC-REW	Preset channel down	Search down
6] ▶ (SEARCH UP)	FF, APC-FF	Preset channel up	Search up
7] ▶/	Play/Pause	Switches mute on and off.	Play/Pause
8] VISU (VISUAL)	Switches the display to monitor.		
9] DISP	Displays and switches the spectrum analyzer patterns.		
10] ISR	Calls ISR.	Calls ISR and stores a channel when pressed for about 2 seconds.	Calls ISR.
11] RPT (REPEAT)	Repeat	None	Repeat
12] EQ (EQ PROG)	Calls the EQ USER display.		
13] RDM (RANDOM/DOLBY NR)	Switches Dolby NR mode on and off.	None	Random
14] MONI (MONITOR)	Switches the monitor on and off.		
15] SCN (SCAN PS/AS)	Scan	Preset scan, stores a station when pressed for about 2 seconds.	Scan

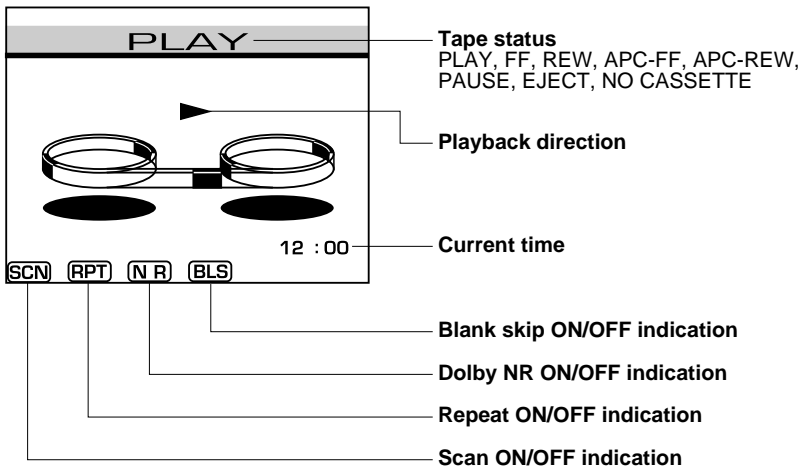
Note: Functions of the source unit and the remote control unit differ slightly.

7. MODE DISPLAY

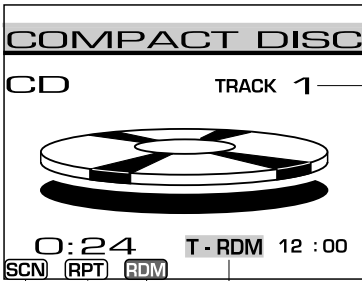
<Radio Mode>



<Tape Mode>



<CD Mode>



Track No.

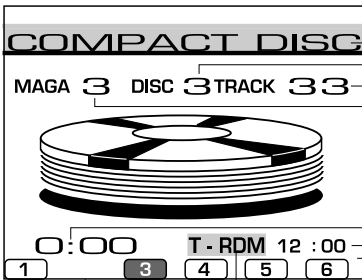
Display about track
Track random: "T-RDM"
Track repeat : "T-RPT"
Track scan : "T-SCN"

Random play indication

Repeat play indication

Scan play indication

<CD Changer Mode>



CD title
When a CD magazine is not loaded in the CD changer, "NO MAGAZINE" is displayed and "DISC CHECK" is displayed after that until the playback starts.

Disc No.

Track No.

Magazine No.

Playback time counter

Current time

Stored disc Nos.

Display about track
Track random: "T-RDM"
Track repeat : "T-RPT"
Track scan : "T-SCN"

Random play indication (RDM)

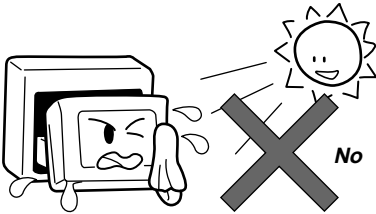
Repeat play indication (RPT)

Scan play indication (SCN)

8. CAUTIONS ON HANDLING

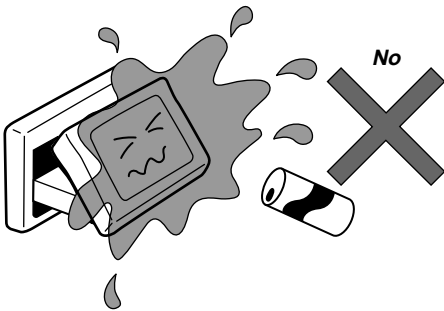
For a longer service life, be sure to read the following cautions.

- Be sure to store the LCD panel inside the source unit when parking the car outdoors for long periods of time.

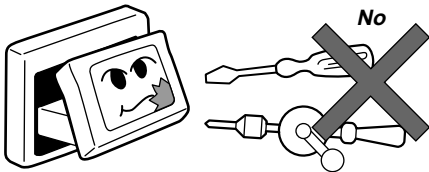


The LCD panel will operate properly in a temperature range of 32°F (0°C) to 140°F (60°C).

- Don't allow any liquids on the set from drinks, umbrellas etc. Doing so may damage the internal circuitry.



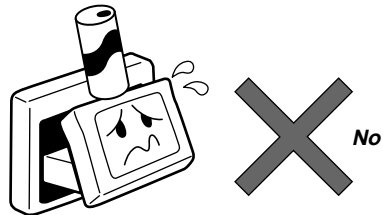
- Do not disassemble or modify the set in any way. Doing so may result in damage.



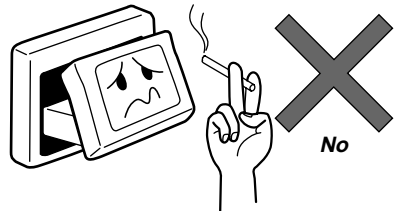
⚠ WARNING

THIS PRODUCT IS NOT INTENDED FOR VIEWING TELEVISION BROADCASTS OR VIDEO TAPES OR FOR PLAYING VIDEO GAMES. Such uses of this product may distract the driver or interfere with the driver's safe operation of the motor vehicle and may violate state law. **CLARION DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY, INCLUDING FATALITIES, OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY SUCH UNINTENDED USES OR FROM ANY IMPROPER USE OF THIS PRODUCT.**

- Do not draw the LCD panel out and use it as a tray. Also, subjecting the LCD panel to shocks may result in breakage, deformation or other damage.



- Do not let cigarettes burn the LCD panel. Doing so may damage or deform the cabinet.



- If a problem should occur, have the set inspected at your store of purchase.
- Do not insert objects or poke in the space between the LCD panel and the source unit when the panel is tilted.
- Do not place anything on the LCD panel when the LCD panel is tilted.

- Do not hold on the display when adjusting the angle of the LCD panel. Doing so may damage it.
- The remote controller may not work if the remote control sensor is exposed to direct sunlight.
- In extremely cold weather, the movement of the picture may be slow and the display may be dark, but this is not a malfunction. The set will work normally once the temperature increases.
- Small black and shiny dots inside the LCD panel are normal for LCD products.
- The LCD panel may stop temporarily when it is opened or closed when the engine is stopped or when it is cold. This is not a malfunction. If this happens, repeat the operation.

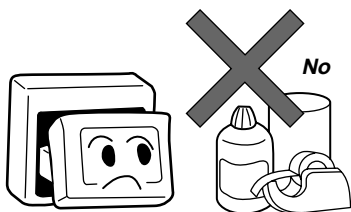
Cleaning

• Cleaning the cabinet

Use a soft, dry cloth and gently wipe off the dirt.

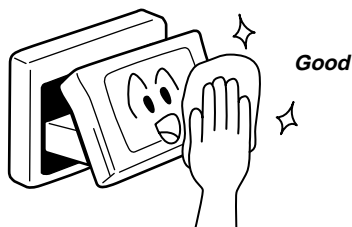
For tough dirt, apply some neutral detergent diluted in water to a soft cloth, wipe off the dirt gently, then wipe again with a dry cloth.

Do not use benzene, thinner, car cleaner, etc., as these substances may damage the cabinet or cause the paint to peel. Also, leaving rubber or plastic products in contact with the cabinet for long periods of time may cause stains.

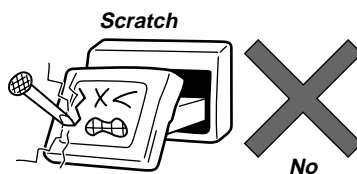


• Cleaning the LCD panel

The LCD panel tends to collect dust, so wipe it off occasionally with a soft cloth.



The surface is easily scratched, so do not rub it with hard objects.



9. OPERATION

Basic Operations

Note: Be sure to read this chapter referring to the front diagrams of chapter "2. CONTROLS" on page 5 (spread).

⚠ CAUTION


When this unit is turned on, starting and stopping the engine of a car with its volume raised to the maximum level may harm your hearing. Be careful about adjusting the volume.

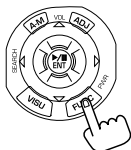
NOTE: Use this unit after starting the engine.




ACC or engine
ON position


Turning on the power and adjusting the volume


- 1) After turning the car's ignition switch on and starting the engine, press the FUNC button  to turn on the power to the unit.

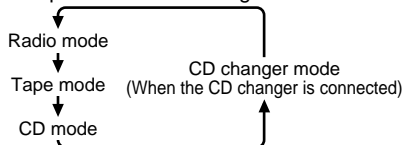



* The current mode is shown in Display .


* This unit starts in the mode it was in when the power was turned off last.

- 2) Press the FUNC button  to select the operation mode.

Each time you press the FUNC button , the operation mode changes as follows:



* Press and hold the FUNC button  for about 1 second to turn off the power.

- 3) Slide the Up/Down button  to ▲ (up) or ▼ (down) to adjust the volume.

▲ : Increases the volume.

⚠ CAUTION

▼ : Decreases the volume.

* The volume level indicated is in the display in a range from 0 (minimum) to 33 (maximum).

Note:

- In the CONFIGURATION or BALANCE display, the volume cannot be adjusted.

⚠ WARNING

THIS PRODUCT IS NOT INTENDED FOR VIEWING TELEVISION BROADCASTS OR VIDEO TAPES OR FOR PLAYING VIDEO GAMES. Such uses of this product may distract the driver or interfere with the driver's safe operation of the motor vehicle and may violate state law. CLARION DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY, INCLUDING FATALITIES, OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY SUCH UNINTENDED USES OR FROM ANY IMPROPER USE OF THIS PRODUCT.

While driving, keep the volume to a level at which external sounds can be heard.

Turning on and off the monitor

Each time you press the MONI button [25], the monitor is turned on and off.

* While using the rear vision camera, monitor-off mode is canceled. When a button other than the ENT button [11], the TAPE button [1], SLOPE button [2], or CD button [3] is pressed, monitor-off mode is canceled.

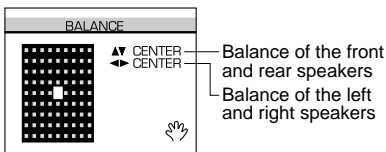
Mute

Each time you press ►/II (center) of the ENT button [11], mute is turned on and off.

“MUTE” is displayed when mute is turned on in radio mode, and “PAUSE” is displayed in tape, CD or CD changer mode.

Adjusting the balance

- 1) Press the A-M button [6] to go to the BALANCE display.



CAUTION

- If no setting is made 5 seconds after pressing the A-M button [6], the unit returns to the previous mode.

- 2) Slide the Up/Down button [11] to ◀ (left), ▶ (right), ▲ (up), or ▼ (down) to adjust the balance of the speakers.

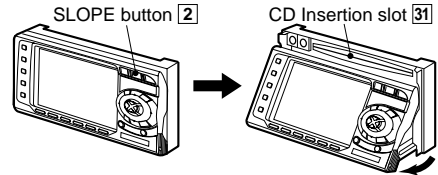
- ◀ : Increases the volume of the left speaker.
- ▶ : Increases the volume of the right speaker.
- ▲ : Increases the volume of the front speaker.
- ▼ : Increases the volume of the rear speaker.

- 3) Press the A-M button [6] to return to the previous mode.

* The tone is adjusted with the equalizer. For information on equalizer operation, see the section “Operating the Equalizer.”

Adjusting the operation panel to a good viewing angle

Adjust the operation panel to an appropriate angle to watch the display and operate the buttons.



Do not place foreign objects in the Cassette Insertion slot [30] or the CD Insertion slot [31].

When adjusting the angle of the panel, be careful not to let your fingers get caught in the panel.

- 1) While the SLOPE button [2] is held down, the operation panel tilts.

If you press and hold the SLOPE button [2], the panel turns upward to the maximum angle and stops.

- 2) When the operation panel is set to the maximum angle, pressing the SLOPE button [2] closes the panel.

* The operation panel angle can be stored. For details, see the next subsection.

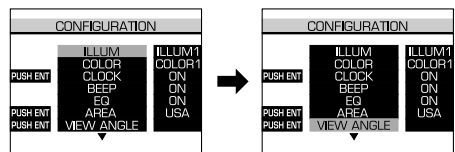
Notes:

- Do not place any object on the operation panel.
- Do not expose the operation panel to shocks.

Storing the operation panel angle

When the operation panel angle is stored, it is set to that angle after a CD or cassette tape is inserted.

- 1) Press the SLOPE button [2] to set an appropriate operation panel angle.
- 2) Press the ADJ button [10] to go to the CONFIGURATION display.



- 3) Slide the Up/Down button [11] to ▲ (up) or ▼ (down) to move the cursor to “VIEW ANGLE.”

- 4) Press ►/II (center) of the ENT button [11].

The operation panel turns upward and downward several times and stops at the stored angle.

- 5) Press the ADJ button [10] to return to the previous mode.

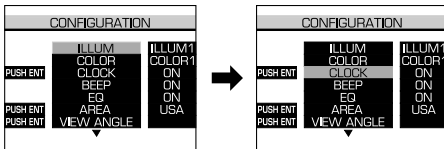
* If you want to change the stored angle, perform the same operation from step 1).

Notes:

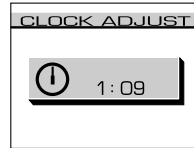
- In step 3) above, the operation panel turns upward and downward several times to store the set angle. During this operation, be careful not to let your fingers get caught in the panel.
- Under some operating conditions, the stored angle may vary slightly.
- If you press the Close button [28] when the operation panel is turned downward (tape is ejected), the panel will not be set to the stored angle.

Setting the clock

- 1) Press the ADJ button [10] to go to the CONFIGURATION display.
- 2) Slide the Up/Down button [11] to ▼ (down) or ▲ (up) and move the cursor to "CLOCK."



- 3) Press ►/|| (center) of the ENT button [11] to go to clock setting mode.



- 4) Slide the Up/Down button [11] to ◀ (left), ▶ (right), ▲ (up), or ▼ (down) to set a time.

Increases the figure.



Selects the hour. Selects the minute.

Decrements the figure.

- ◀ : Selects the hour (the hour becomes blue and can be changed).
- ▶ : Selects the minute (the minute becomes blue and can be changed).
- ▲ : The hour or minute increments while the corresponding figure is blue.
- ▼ : The hour or minute decrements while the corresponding figure is blue.

- 5) After adjusting the time, press ►/|| (center) of the ENT button [11] to set it.
* Pressing ►/|| (center) of the ENT button [11] resets the second to zero.
- 6) Pressing the ADJ button [10] returns the mode to the previous one.

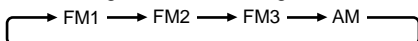
Note:

- The time is always displayed in radio, tape, CD, and CD changer modes. (However, when the "CITY LIGHTS" pattern in the spectrum analyzer is selected or the security camera is used, the time is not displayed.)

Radio Mode Operations

Listening to the radio

- 1) Press the FUNC button **[12]** to select radio mode.
- 2) Press the BND button **[13]** to select a band. Each time you press the BND button **[13]**, the band changes in the following order:



- * Each time you press the Monaural button **[20]**, the unit toggles between on (stereo) and off (monaural).
- 3) Press one of the preset buttons **[16]** to **[21]** to tune in to a station.

Seek tuning

- 1) While **[MANU]** appears in the display, press and hold the BND button **[13]** for about 1 second to switch to the seek tuning.
- 2) Slide the Up/Down button **[11]** to **▶** (right) or **◀** (left) to start the seek tuning. When a station is found, it is automatically tuned in.
 - ▶** : Seeks higher frequency stations.
 - ◀** : Seeks lower frequency stations.
 - * To stop the seek tuning, slide the Up/Down button **[11]** to **◀** (left) or **▶** (right).

Manual tuning

- 1) When **[MANU]** does not appear in the display, press and hold the BND button **[13]** for about 2 seconds to select manual tuning.
 - * When manual tuning is selected, **[MANU]** appears in the display.
- 2) Slide the Up/Down button **[11]** to **▶** (right) or **◀** (left) to tune in to a station.
 - * Each time you slide the Up/Down button **[11]**, the frequency changes in 0.2 MHz increments for the FM and in 10 kHz increments for the AM band.
 - * Press and hold the Up/Down button **[11]** to **▶** (right) and **◀** (left) to increase or decrease the frequency continuously.

Preset memory function

A total of 24 stations can be preset, 6 each for the FM1, FM2, FM3, and AM bands.

Note:

- When a station is preset, the station previously stored in the memory at that position is cleared.

Manual memory function

- 1) Press the BND button **[13]** to select a band.
- 2) Slide the Up/Down button **[11]** to **▶** (right) or **◀** (left) to tune in to a station.
- 3) Press and hold for about 2 seconds one of the Preset buttons **[16]** to **[21]** where you want to store the station. When a beep sounds, the station is stored in that button.
 - * One station in each band can be preset to each button.

Auto store function

- 1) Press the BND button **[13]** to select a band.
- 2) Press the SHIFT button **[22]** to select PS/AS mode.
 - * Press the SHIFT button **[22]** again to return to preset mode.
- 3) Press the Auto Store button **[17]**. Stations with good reception are automatically stored in preset buttons starting from Preset button **[16]**. (After storing 6 stations, preset No. 1 station is tuned in and auto storing ends.)
 - * **[A·S]** in the display becomes pink.
 - * Stations with good reception are stored in the order from the current station to stations with a higher frequency. If there are fewer than 6 stations with good reception, the auto storing returns to the lowest frequency and resumes from there.

Note:

- When stations are preset by the auto store function, the station previously stored in the memory at that position is cleared. If there are fewer than 6 stations with good reception, the stations previously stored at the remaining preset buttons are not cleared.

Preset scanning

- 1) Press the BND button **[13]** to select a band.
- 2) Press the SHIFT button **[22]** to select PS/AS mode.
 - * Press the SHIFT button **[22]** to return to preset mode.
- 3) When the Preset Scan button **[16]** is pressed, the preset stations are tuned in for 5 seconds each from Preset button **[16]**.
 - * **[P·S]** in the display becomes pink.
 - * When a preset station has been tuned in, preset scanning starts from the station after the current one. When a preset station has not been tuned in, preset scanning starts from preset No. 1.

- When a desirable station is tuned in, press the SHIFT button **[22]** to cancel PS/AS mode and press the preset button to which the station is to be stored.

* The preset scanning is canceled and you can listen to the station.

Preset selection

- Press the BND button **[13]** to select a band.
- Press one of the Preset buttons **[16]** to **[21]** to select the stored station.

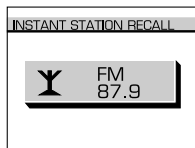
Note:

- In PS/AS mode, do not perform the preset selection (excluding the preset scanning).
In PS/AS mode, when the Preset button **[17]** is pressed, the auto storing starts and all the stored stations are cleared.

ISR memory

If an AM or FM station is stored in the ISR button, it can be directly tuned in by pressing the ISR button from any other mode.

- Press the BND button **[13]** to select a band.
- Press the Preset buttons **[16]** to **[21]** or the ENT button **[11]** to tune in to a station you want to store.
- Press and hold the ISR button **[24]** for about 2 seconds.
When a beep sounds, the display turns to the ISR (Instant Station Recall) display and the frequency is stored.
- Press the ISR button **[24]** to return to the previous mode.



Calling the station with the ISR button

- In any mode, pressing the ISR button **[24]** allows you to tune in to the stored station.
* When the ISR is functioning, the ISR display appears.
* The default ISR setting is 87.9 MHz.

- To cancel the ISR function, press the ISR button **[24]** or FUNC button **[12]**. The ISR function is canceled and the previous mode returns.

Area change

When you listen to the radio outside the U.S., use this function.

Switchable frequency setting

This car stereo is initially set to tune in frequency intervals of 10 kHz for AM and 200 kHz for FM, the standard calibrations in the U.S. When using the unit outside the U.S., use the following procedure to switch the frequency range.

The table below lists the frequency specifications for the U.S. and other countries.

		Initial Setting (U.S. standard)	New Setting (outside U.S.)
AM	Frequency spacing	10 kHz	9 kHz
	Frequency range	530 to 1710 kHz	531 to 1629 kHz
FM	Frequency spacing	200 kHz	50 kHz
	Frequency range	87.9 to 107.9 MHz	87.5 to 108 MHz

Changing area

Depending on whether you use the unit in the U.S. or outside the U.S., switch the area as follows:

- Press the ADJ button **[10]** to go to the CONFIGURATION display.
- Slide the Up/Down button **[11]** to ▲ (up) or ▼ (down) and move the cursor to "AREA."
- Slide the Up/Down button **[11]** to ► (right) to switch the area (between in the U.S. and outside the U.S.).
- Press the ADJ button **[10]** to return to the previous mode.
* The new setting returns to the initial setting.

Tape Mode Operations

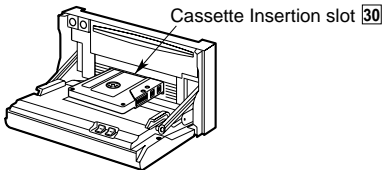
Loading and playing a cassette tape

* When a cassette tape is already inserted (When the TAPE indicator [4] lights), press the FUNC button [12] and select tape mode. Playback starts automatically.

- 1) Press the TAPE button [1]. The operation panel turns downward and the Cassette Insertion slot [30] appears.
- 2) Insert a cassette tape into the Cassette Insertion slot [30] with the exposed side of the tape facing right. Playback starts automatically.

* After a cassette tape is inserted, the operation panel closes. Adjust the operation panel angle to an appropriate position.

When the operation panel angle is stored, it is set to this angle automatically.



CAUTION

Do not put your hand or fingers into the Cassette Insertion slot or CD Insertion slot, as this may cause a breakdown.

Be careful not to let your fingers get caught in the panel when it turns upward or downward.

Ejecting the cassette tape

Press the TAPE button [1] or Eject button [29]. The operation panel turns downward so that the tape can be ejected. After ejecting the cassette tape, the operation panel closes automatically.

* When the panel angle is stored, it is set to this angle.

* The operation panel can be closed by pressing the Close button [28].

Notes:

- Do not leave a cassette tape in the ejected position (the operation panel is turned downward) because it may cause a breakdown. Be sure to remove the cassette tape or insert it and close the operation panel.
- Do not expose the operation panel to shocks.

CAUTION

Do not place foreign objects in the Cassette Insertion slot or CD Insertion slot because it may cause breakdown.

Be careful not to let your fingers get caught in the panel when it turns upward or downward.

Stopping (pausing) playback

Press ►/|| (center) of the ENT button [11]. Playback pauses. To resume playback, press ►/|| (center) of the ENT button [11] again.

Fast-forwarding and rewinding

- 1) Slide the Up/Down button [11] to ► (right) to fast-forward the tape.

When the end of the tape is reached, the other side of the tape is automatically played back.

Slide the Up/Down button [11] to ◀ (left) to rewind the tape.

When the start of the tape is reached, that side is automatically played back.

- 2) When the BND button [13] is pressed at a desired track (song), fast-forwarding or rewinding is canceled and playback starts from that point.

Auto metal function

When a metal or chrome tape is loaded, the unit detects the type of the tape and selects the most appropriate equalizer pattern.

* [MTL] appears in the display.

APC (Auto Program Control)

- 1) Slide the Up/Down button [11] to ◀ (left) twice to fast-forward the tape to the beginning of the current track. Slide the Up/Down button [11] to ► (right) twice to fast-forward the tape to the beginning of the next track.
- 2) When ►/|| (center) of the ENT button [11] is pressed at a desired track, the APC is canceled and playback starts from that point.

Note:

- When the ►/II (center) of the ENT button [11] is pressed at a location that is less than 15 seconds from the start or end of the track, that track may be skipped and the previous or the next track may be selected instead.

Switching to the other side of the tape

Press the BND button [13]. Playback is switched to the other side of the cassette tape.

Auto reverse mechanism

When the end of the cassette tape is reached, the other side of the tape is played automatically without pressing the BND button [13].

FF scan function

- 1) Press the Scan button [16]. The first 10 seconds of all the tracks on the cassette tape are played repeatedly.
 - * [SCN] in the display becomes pink.

Note:

- Scanning is performed only for the track after the one that is currently being played.
- 2) Press the Scan button [16] at the desired track to cancel scanning and start playback from that position.
 - * [SCN] in the display returns to the previous color.

Repeat function

- 1) Press the Repeat button [17] to play the current track repeatedly.
 - * [RPT] in the display becomes pink.
- 2) To cancel the repeat function, press the Repeat button [17] again to resume playback.
 - * [RPT] in the display returns to the previous color.

Dolby Noise Reduction System

Press the Dolby NR button [18] to turn on the Dolby B NR.

* [NR] in the display becomes pink.

- The Dolby Noise Reduction System is manufactured under license of the Dolby Laboratories Licensing Corporation.
- DOLBY, and the double D mark are registered trademarks of the Dolby Laboratories Licensing Corporation.

* To cancel the Dolby NR, press the Dolby NR button [18] to turn off the Dolby B NR. [NR] in the display returns to the previous color.

Blank skip function

Press the Blank Skip button [19] to skip playback to the beginning of the next recorded section when there is a blank space of 12 seconds or more between selections.

* [BLS] in the display becomes pink.

* To cancel the blank skip function, press the Blank Skip button [19] again. Normal playback is resumed and [BLS] in the display returns to the previous color.

Notes:

The APC, Scan, Repeat, and Blank skip functions may not work normally with the following tapes:

- Tapes on which the recording level is low.
- Tapes on which there is less than 4 seconds of blank space between selections.
- Tapes on which there are long pauses in the middle of selections.
- Tapes on which there is much noise between selections.

CD Mode Operations

Note:

- CD-ROM discs cannot be played.

Loading and playing a CD

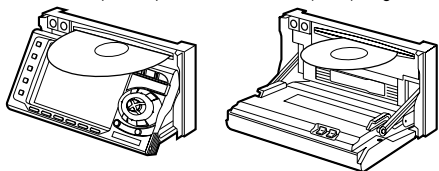
* When a CD is already inserted (When the DISC indicator [8] lights), press the FUNC button [12] and select CD mode. Playback starts automatically.

- 1) Press the CD button [3]. The operation panel turns downward and the CD Insertion slot [31] appears.

Note:

- When the operation panel angle has been adjusted with the SLOPE button [2] (excluding the case when it has been adjusted to the maximum angle), a CD cannot be inserted because the panel may damage it. Press the CD button [3] or press and hold the SLOPE button [2] to set the panel to the maximum angle and insert the CD.

For 5-inch (12 cm) CD For 3-inch (8 cm) single CD



- 2) Insert the disc into the CD Insertion slot [31] with the label side facing up.
CD mode is set and playback begins automatically.

* After a CD is inserted, the operation panel closes automatically. Adjust the panel angle with the SLOPE button [2]. When an operation panel angle has been stored, it is set to that position automatically.

* If the operation panel is turned downward after ejecting a cassette tape or due to other operation, an alarm sounds, the operation panel closes, and the CD playback begins automatically.

⚠ CAUTION

Do not put your hand or fingers into the Cassette Insertion slot or CD Insertion slot, as this may cause a breakdown.

Be careful not to let your fingers get caught in the panel when it turns upward or downward.

- 3) Slide the Up/Down button [11] to ► (right) or ◀ (left) to select a track.

► : Selects the next track. (Example: The third track from the current one is selected by sliding the button 3 times.)

To return to the beginning of the current track, slide the Up/Down button [11] once to ◀ (left).

◀ : Selects the previous track. (Example: The third track before the current one is selected by sliding the button 1+3=4 times (the first sliding returns you to the beginning of the current track).)

Ejecting the CD

- 1) Press the CD button [3] to eject the CD.
- 2) Remove the CD.

Remove the CD only when the operation panel is turned downward. The panel closes automatically after a few seconds.

* When the operation panel angle has been stored, it is set to that position.

Notes:

- Do not leave a disc in the ejected position. If the unit is operated in such a condition, it may break down or damage the disc.
- When inserting a disc, insert it until it is fully drawn into the slot.
- When the operation panel is left in downward position, a repeated beep sounds. Remove or fully insert the CD or a tape and close the operation panel.
- Be careful not to let your fingers get caught in the panel when it turns upward or downward.
- When the CD button [3] is pressed, the eject operation is performed even if a disc has not been loaded. During the eject operation, the SLOPE button [2] and the TAPE button [1] cannot be operated.
- If the operation panel is moved due to shock when set to the maximum angle, it must be reset to the maximum angle with the SLOPE button [2] before the CD can be ejected by pressing the CD button [3].

Pausing playback

- 1) Press **▶/II** (center) of the ENT button **[11]** to pause playback.
 - * "PAUSE" appears in the display.
- 2) Press **▶/II** (center) of the ENT button **[11]** again to resume playback.

Fast-forward and fast-backward

- 1) Slide and hold the Up/Down button **[11]** to **▶** (right) and **◀** (left). The CD fast-forwards or fast-backwards while the button is being held down.
 - ▶** : Moves forward 5 times faster than normal play when you slide it for about 1 second and 30 times faster than normal play when you slide it for 5 seconds or longer.
 - ◀** : Moves backward 5 times faster than normal play when you slide it for about 1 second and 30 times faster than normal play when you slide it for 5 seconds or longer.
- 2) Release the button when you reach the track you want to listen to. Playback resumes.

Scan play

- 1) Press the Scan button **[16]**. The first 10 seconds of all the tracks on the CD are played repeatedly.
 - * **[SCN]** becomes pink and **[T-SCN]** appears in the display.
 - * Scan play starts from the track after the current one.
 - * When the power is turned off, scan play is canceled.
- 2) Press the Scan button **[16]** when you reach the track you want to listen to. Scan play is canceled and playback starts.

Repeat play

- 1) Press the Repeat button **[17]** to repeat playback of the current track.
 - * **[RPT]** becomes pink and **[T-RPT]** appears in the display.
 - * To cancel repeat play, press the Repeat button **[17]** again. Playback resumes.

Random play

- 1) Press the Random button **[18]** to start random play.
 - * **[RDM]** becomes pink and **[T-RDM]** appears in the display.
 - * To cancel random play, press the Random button **[18]** again. Playback resumes.

CD Changer Mode Operations

This unit can control a separately sold CD changer to store and play up to 18 CDs.

Note:

- CD-ROM discs cannot be played.

Listening to a CD

- 1) Press the FUNC button [12] and select CD changer mode. Playback starts automatically.
- 2) Press one of the Disc No. buttons [16] to [21] corresponding to each CD to select one.
 - * The selected CD No. becomes pink in the display.

Note:

- If a slot in a magazine is empty, that slot No. does not appear in the display and cannot be selected.

- 3) Slide the Up/Down button [11] to ► (right) or ◀ (left) to select a track (song).

► : Selects the next track. (Example: The third track from the current one is selected by sliding the button 3 times.)

To return to the beginning of the current track, slide the Up/Down button [11] once to ◀ (left).

◀ : Selects the previous track. (Example: The third track before the current one is selected by sliding the button 1+3=4 times (the first sliding returns you to the beginning of the current track).)

Notes:

- After CD No. 6 is played, CD No. 1 is played again. However, when a CD changer capable of storing 12 or 18 CDs is connected to the unit, all CDs in all magazines are played sequentially (unless the magazine is locked).
- The empty slot No. is skipped and the next CD is played.

Fast-forward and fast-backward

- 1) Slide and hold the Up/Down button [11] to ► (right) and ◀ (left). The CD fast-forwards or fast-backwards while the button is being held.

► : Moves forward 3 times faster than normal play when you slide it for about 1 second and 30 times faster than normal play when you slide it for 5 seconds or longer.

◀ : Moves backward 3 times faster than normal play when you slide it for about 1 second and 30 times faster than normal play when you slide it for 5 seconds or longer.

Note:

- Slide the Up/Down button [11] to ► (right) or ◀ (left) for 1 second or shorter to switch the tracks.
- 2) Release the button when you reach the desired track to start playback.

Pausing playback

- 1) Press ►/|| (center) of the ENT button [11] to pause playback.
 - * "PAUSE" appears in the display.
- 2) Press ►/|| (center) of the ENT button [11] again to resume playback.

Scan play

This function plays the first 10 seconds of all the tracks on the current CD (track scan) or first 10 seconds of the first track of all the CDs in the CD changer (disc scan).

- 1) Press the SHIFT button [22] to select SCN/RPT/RDM mode.
- 2) Press the Scan button [16] to start track scan. Scanning starts from the next track of the current one.
 - Press the Scan button [16] for about 2 seconds to start disc scan. Scanning starts from the next disc of the current one.
 - * [SCN] becomes pink and [T-SCN] or [D-SCN] appears in the display.
 - * Turning off the power cancels scan play.
- 3) Press the Scan button [16] when you reach the track you want to listen to. Playback resumes.

Repeat play

This function plays the current track (track repeat) or the current CD (disc repeat) repeatedly.

- 1) Press the SHIFT button [22] to select SCN/RPT/RDM mode.
- 2) Press the Repeat button [17] to start track repeat or press it for about 2 seconds to start disc repeat.

- * **RPT** becomes pink and **T-RPT** or **D-RPT** appears in the display.
- * To cancel track repeat or disc repeat, press the Repeat button **[17]** again. Playback resumes.

Random play

This function plays all the tracks on the current CD (track random) or plays the all CDs in the magazine (disc random) in random order.

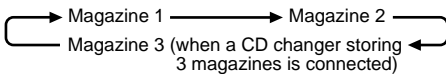
- 1) Press the SHIFT button **[22]** to select SCN/RPT/RDM mode.
- 2) Press the Random button **[18]** to start track random or press it for about 2 seconds to start disc random.
 - * **RDM** becomes pink and **T-RDM** or **D-RDM** appears in the display.
- 3) When a track that you want to listen to is played, press the Random button **[18]** again to resume playback.

Switching the magazine

Note:

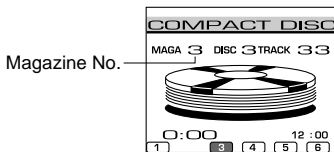
- This function is not available with the CD changer storing 6 CDs.

Press the MAG button **[13]** to select a magazine. Each time you press the MAG button **[13]**, the magazine switches in the following order:



Playback starts from No. 1 CD in the selected magazine.

- * The selected magazine No., DISC No., and TRACK No. appear in the display.



Locking the magazine

- 1) Press and hold the MAG button **[13]** for about 2 seconds to play tracks on only the current CD.
 - * The selected magazine No. becomes pink in the display.

Notes:

- Even when the magazine is locked, pressing the MAG button **[13]** switches to the new magazine which is locked.
 - When the magazine is locked, scanning and random playback are performed only for the locked magazine.
- 2) To cancel, press and hold the MAG button **[13]** for about 2 seconds. Playback resumes.

Operating the Equalizer

This unit has a built-in 7-band graphic equalizer to adjust the sound level in each frequency range. You can select one of the four preset patterns (basic equalizer), or can set four patterns by yourself and select one (user equalizer).

Note:

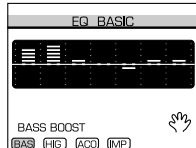
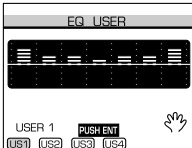
- In the following operation, when the hand mark (☞) appears in the display, the previous mode is recalled if no operation is made within 5 seconds.

Selecting the equalizer pattern

Note:

- In EQ USER display, design equalizer pattern by yourself and store them. For further detail, see the next subsection "Designing and storing equalizer patterns."

- Press the EQ button [15].
- Press the BND button [13] to select EQ USER or EQ BASIC.
 - * Each time you press the BND button [13], display toggles between EQ BASIC and EQ USER.



- Select an equalizer pattern by pressing one of buttons [16] to [19].

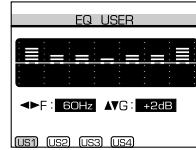
Note:

- Be sure to turn on the equalizer effect. Otherwise, the equalizer effect is not available. For this operation, see the subsection "Turning on and off the equalizer pattern."

Designing and storing equalizer patterns

- Press the EQ button [15].
- Press the BND button [13] to select EQ USER display.
 - * Each time you press the BND button [13], the display toggles between EQ BASIC and EQ USER.
- Select an equalizer pattern to be stored (USER1 to USER4) by pressing one of buttons [16] to [19].

- Press ▶/|| (center) of the ENT button [11] to select the equalizer setting mode.



- Slide the Up/Down button [11] to ◀ (left), ▶ (right), ▲ (up), or ▼ (down) to set an equalizer pattern.

Increases the sound level.



Decreases the sound level.

- After setting the frequency pattern, press ▶/|| (center) of the ENT button [11] to store it.

Note:

- The stored equalizer pattern can be selected in the same procedure as described in the previous subsection "Selecting the equalizer pattern."

Turning on and off the equalizer pattern

- Press the ADJ button [10] to select the CONFIGURATION display.
- Slide the Up/Down button [11] to ▼ (down) or ▲ (up) to move the cursor to "EQ."
- Each time you slide the Up/Down button [11] to ▶ (right), "ON" and "OFF" toggles.
 - * When "OFF" is set, the EQ indicator [5] goes off.
- Press the ADJ button [10] to return to the previous mode.

Rear Vision Camera

Note:

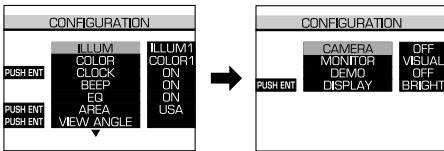
- Use this camera as an auxiliary means to checking obstacles.

Monitoring the rear vision camera

The rear vision camera can be connected to this unit.

For the power supply of the camera, mount the power box sold separately (CCA-147-501).

- 1) Press the ADJ button [10] to select the CONFIGURATION display.
- 2) Slide the Up/Down button [11] to ▼ (down) or ▲ (up) to move the cursor to "CAMERA."
- 3) Slide the Up/Down button [11] to ► (right) to change "OFF" to "ON."



Note:

- When "CAMERA" in the CONFIGURATION display is turned on, the setting can be switched even if the camera has not been connected.

- 4) Press the ADJ button [10] to return to the previous mode.
- 5) Press the VISU button [7] to switch to the camera mode.

Note:

- When you shift into the reverse gear, the rear vision camera is automatically turned on.

* To cancel the rear vision camera, change "ON" to "OFF" of the "CAMERA" in step 3) above.

Listening to a CD or cassette tape in rear vision camera mode (monitor lock)

You can listen to a CD or cassette tape while monitoring the rear vision camera.

- 1) Press the FUNC button [12] to select the mode you want to listen to (CD, tape, or radio).
- 2) Press the VISU button [7] to monitor the rear vision camera.
 - * The L indicator [9] lights.

⚠ WARNING

THIS PRODUCT IS NOT INTENDED FOR VIEWING TELEVISION BROADCASTS OR VIDEO TAPES OR FOR PLAYING VIDEO GAMES. Such uses of this product may distract the driver or interfere with the driver's safe operation of the motor vehicle and may violate state law. CLARION DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY, INCLUDING FATALITIES, OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY SUCH UNINTENDED USES OR FROM ANY IMPROPER USE OF THIS PRODUCT.

Note:

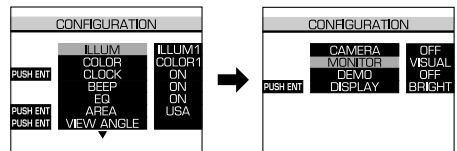
- When the monitor lock function is on, pressing the ►/|| (center) of the ENT button [11] to mute the sound causes the L indicator [9] to flash.

* To cancel the monitor lock, press the VISU button [7]. The mode returns to the previous one and the L indicator [9] goes off.

Connecting an external monitor

An output terminal for an external monitor is provided on the back of the unit to connect an external monitor.

- 1) Press the ADJ button [10] to select the CONFIGURATION display.
- 2) Slide the Up/Down button [11] to ▼ (down) or ▲ (up) to move the cursor to "MONITOR."



- 3) Slide the Up/Down button [11] to ► (right) and switch "AUDIO" to "VISUAL."
 - * Slide the Up/Down button [11] to ► (right)

again to return to "AUDIO."

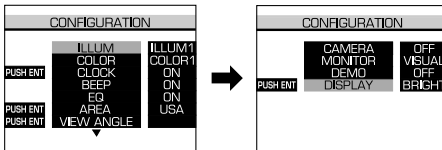
AUDIO : Display becomes black.

VISUAL: The rear vision camera is monitored on the display. (Applicable only when the rear vision camera is connected. When it has not been connected, display becomes black in radio, CD, or ISR mode.)

- 4) Press the ADJ button **[10]** to return to the previous display.

Adjusting the brightness and tone of color (when the rear vision camera is connected)

- 1) Press the ADJ button **[10]** to select the CONFIGURATION display.
- 2) Slide the Up/Down button **[11]** to ▼ (down) or ▲ (up) to move the cursor to "DISPLAY."



Adjusting the brightness

- 3) Slide the Up/Down button **[11]** to ► (right) to select either of BRIGHT, COLOR, or HUE. Each time you slide the Up/Down button **[11]** to ► (right), the adjustment mode switches in the following order:

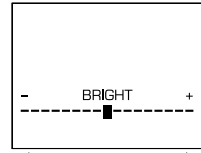


BRIGHT :Adjusts the brightness of the display.

COLOR :Adjusts the color saturation.

HUE :Adjusts the tone of color. (red is emphasized ↔ green is emphasized.)

- 4) Press ►/|| (center) of the ENT button **[11]** to select what to adjust.



Darken. Brighten.
BRIGHT is selected.

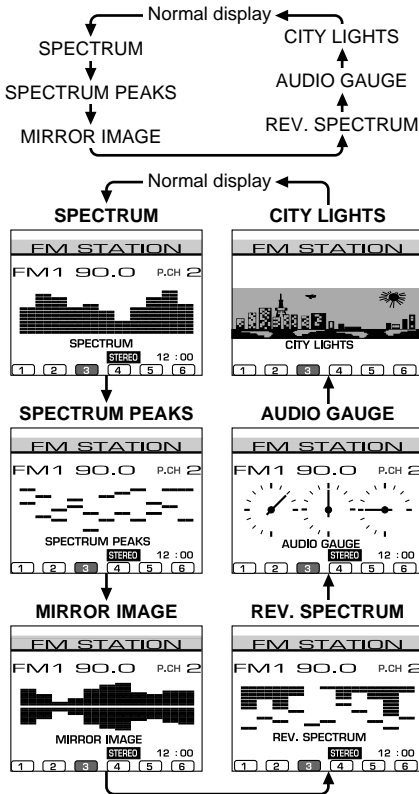
- 5) Slide the Up/Down button **[11]** to ► (right) or ◀ (left) to adjust the brightness.

Other Functions

Switching the spectrum analyzer display

The spectrum analyzer display pattern can be switched in radio, tape, CD, or CD changer mode.

Each time you press the DISP button [26], the spectrum analyzer display pattern switches in the following order:



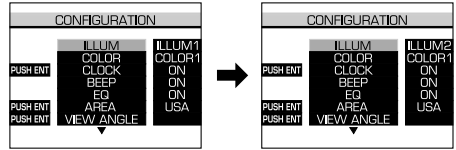
Notes:

- In ISR mode, the spectrum analyzer patterns cannot be displayed.
- The spectrum analyzer turns off temporarily in some mode or during some key operation.

Switching the button color

Button color can be switched between green and amber.

- 1) Press the ADJ button [10] to select the CONFIGURATION display.
- 2) Each time you slide the Up/Down button [11] to ► (right), the button color toggles between green (ILLUM1) and amber (ILLUM2).

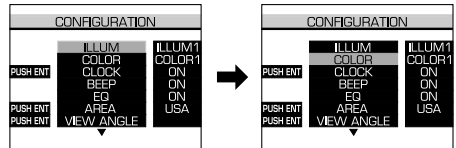


- 3) Press the ADJ button [10] to return to the previous mode.

Switching the background color

The background color of the display can be switched between blue and black.

- 1) Press the ADJ button [10] to select the CONFIGURATION display.
- 2) Slide the Up/Down button [11] to ▼ (down) or ▲ (up) to move the cursor to "COLOR."



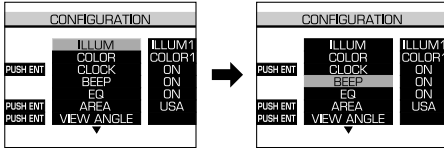
- 3) Each time you slide the Up/Down button [11] to ► (right), the background color toggles between blue (COLOR1) and black (COLOR2).
- 4) Press the ADJ button [10] to return to the previous mode.

Turning on and off the operation sound

You can turn off the beep sound output during operation.

- 1) Press the ADJ button [10] to select the CONFIGURATION display.

- 2) Slide the Up/Down button [11] to ▼ (down) or ▲ (up) to move the cursor to "BEEP."



- 3) Each time you slide the Up/Down button [11] to ► (right), the beep sound is turned on and off.
- 4) Press the ADJ button [10] to return to the previous mode.

Titling

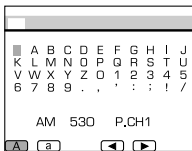
You can title a radio station or CD name (title) and store them. When the titled station is tuned in or the CD is played, its title appears in the display.

Entering a title

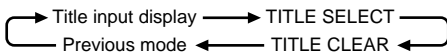
Notes:

- Up to 30 FM band and 20 AM band stations can be titled. Also 50 CDs can be titled.
- If you try to input more than the specified number of titles, "OVER FLOW" appears in the display and further input becomes impossible. Delete unnecessary titles to input new ones.

- 1) Select a station or CD which you want to title.
- 2) Press the TITLE button [23] and select the title input display.



* Each time you press the TITLE button [23], the display switches in the following order.



- 3) Press button [16] and [17] to select the letter type.

Button [16]: Upper case letters and figures

Button [17]: Lower case letters and symbols

- 4) Slide the Up/Down button [11] to ▲ (up), ▼ (down), ◀ (left), or ▶ (right) to move the pink cursor to the letter you want to enter. Press the ►/|| (center) of the ENT button [11]. The selected letter is entered at the cursor (black) on the top of the display.

* Repeat steps 3) and 4) above to enter the title.

* If you entered the wrong letter, press the button [20] to backspace the cursor (black) and enter the correct letter this time.

* Press the button [21]. The cursor (black) moves to the right.

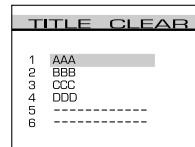
- 5) After entering the title, press and hold ►/|| (center) of the ENT button [11] for about 2 seconds. The title is stored when the beep sounds and the previous mode is recalled.

Note:

- The title list in radio mode displays only titles for the preset stations.

Clearing the title

- 1) Select the mode where the title you want to clear is stored (radio or CD mode).
- 2) Press the TITLE button [23] twice in CD mode or 3 times in radio or CD changer mode to go to the TITLE CLEAR display.



- 3) Slide the Up/Down button [11] to ▼ (down) or ▲ (up) to move the cursor to the title you want to clear and press and hold ►/|| (center) of the ENT button [11] for about 2 seconds. The title is cleared when the beep sounds.
- 4) Press the TITLE button [23] to return to the previous mode.

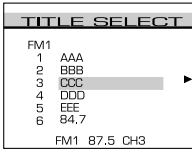
Changing the title

- 1) Select the mode where the title you want to change is stored (radio or CD mode).
- 2) Press the TITLE button [23] to select the title input display.

Change the title using the procedure described in step 3) above and in the subsection "Entering a title."

Selecting the title

- 1) Select the mode where the title you want to select is stored (radio or CD mode).
- 2) Press the TITLE button **[23]** twice to select the TITLE SELECT display.
The entered titles appear after the title numbers.



- * In CD mode, the TITLE SELECT display cannot be selected.
 - * In radio mode, slide the Up/Down button **[11]** to ◀ (left) or ▶ (right) to select a band.
- 3) Slide the Up/Down button **[11]** to ▼ (down) or ▲ (up) to move the cursor to the title to be selected. Press ▶/|| (center) of the ENT button **[11]** to tune in to the selected station.
* Press the TITLE button **[23]** twice to quit the TITLE SELECT display.

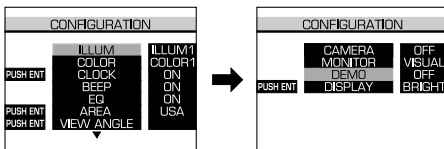
DEMO (demonstration)

In this mode, the spectrum analyzer pattern and equalizer pattern are switched sequentially.

Note:

- Some key operations cannot be made during a DEMO.

- 1) Press the ADJ button **[10]** to select the CONFIGURATION display.
- 2) Slide the Up/Down button **[11]** to ▲ (up) or ▼ (down) to select "DEMO."



- 3) Slide the Up/Down button **[11]** to ▶ (right) and turn "OFF" to "ON." The demonstration starts.
* To cancel the demonstration, press ▶/|| (center) of the ENT button **[11]**.

10. FM RECEPTION

MAGITUNECS® TUNER

Understanding the Difficulties of FM Reception in Your Car

FM radio waves are transmitted in the very high frequency range (VHF). These waves move in straight lines, much like light. Tall buildings, hills and mountains, or other obstructions may cause “shadows” or loss of signal, noted by a momentary “hissing” noise in the reception.

These obstructions found in day-to-day urban travel can reflect or bounce the signal. When reflected and direct signals arrive at the radio's antenna together, a similar noise problem may occur, called multi-path interference.

In addition, the vehicle itself can be the culprit, creating various types of impulse noise (usually associated with the vehicle's ignition and/or other parts of the electrical system), which again will deteriorate signal quality.



The MAGITUNECS® AM/FM Tuner

MAGITUNECS® combines both AM and FM tuners into one small, unique package. The design incorporates many advanced technologies exclusively engineered to improve FM and AM performance.

Signal Actuated Stereo Control (SASC)

In weak signal conditions, the SASC circuit will provide optimum, low noise reception. As the signal weakens, stereo separation is smoothly converted to a monaural signal with a gradual “cut-back” on high frequency reproduction, minimizing “hiss” and noise.

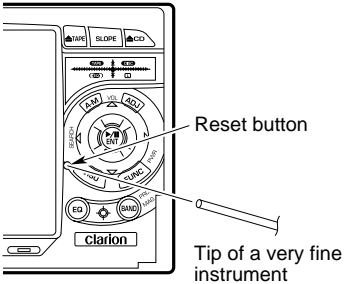
Balanced Mixer FM Front-End – Dual-Gate FET

The balanced mixer pre-amp section is designed to provide a uniform signal to the tuner – creating the best possible noise-free reception. A variable gain stage automatically controls the amplitude of the signal according to the incoming signal strength. As the signal deteriorates or weakens, the gain is “increased” to ensure the highest quality signal with the least amount of noise. When signal strength becomes very strong, the gain is reduced, avoiding unnecessary distortion.

Triple Stage Narrow Band IF Filters

The new triple stage IF and ceramic filter system enables the tuner to “focus” on the selected frequency – ignoring stronger or nearer stations to prevent frequency “hopping.” With this type of narrow band filtering, the selectivity of the tuner can be increased.

11. TROUBLESHOOTING

Symptom	Cause	Measure
Power does not switch on. (There is no sound produced.)	The fuse has blown.	Replace the fuse with one of the same rating. If the fuse blows again, contact the store where you purchased the unit.
	Wiring is incomplete.	See "Installation/Wire Connection Guide (especially, Section 6. Wire Connections)" of this manual and connect properly.
Sound quality is poor.	The head is dirty.	Use a cleaning tape, etc. to clean the head.
	The Dolby NR button is not pressed.	Turn the Dolby NR button on when listening to tapes recorded with the Dolby NR system.
Nothing happens when buttons are pressed, or the display is not accurate.	Noise, etc., is causing the microprocessor to malfunction.	Press the reset button with the tip of a very fine instrument for about 2 seconds.
		
Picture is dark.	BRIGHT (brightness) adjustment is not appropriate.	Select the CONFIGURATION display and adjust the BRIGHT (brightness) properly.
	Poor usage conditions	The temperature in the car may be below 32°F (0°C) or above 140°F (60°C). Check the display again when the internal temperature is between 32°F (0°C) to 140°F (60°C).
Colors are pale or hue is poor.	COLOR (tone of color) and HUE are not adjusted appropriately.	Select the CONFIGURATION display and adjust the color and hue density using the COLOR and HUE controls.
Spots or stripes on picture	Interference signals	This may be caused by interference from other cars, trains, high voltage lines, neon lights, etc. Check again in another place.
The compact disc does not enter.	There is already a compact disc inside the disc insertion slot.	Eject the compact disc and then insert another one.
	The operation panel is not set to the maximum angle.	Press CD (eject) button [3] or set the operation panel to the maximum angle.
Sound skipping noise and other noise are heard.	The compact disc is dirty.	Wipe the compact disc with a soft cloth.
	The compact disc is severely scratched or warped.	Replace the compact disc with one that is in good condition.
The sound is poor immediately after switching on the power.	When the car is parked in a humid place, dew might form on the internal lens.	Turn the unit on and wait for about 1 hour before operating.

12. ERROR DISPLAYS

- If an error occurs, the type of error is displayed.
Take the measures described below to eliminate the problem.

Display	Mode	Cause	Measure
TEMP Error	CD	Displayed when the temperature surrounding the unit or the CD changer is high and it may damage the semiconductor or laser part.	Lower the surrounding temperature and wait for a while to cool off the unit and the CD changer.
	CD changer		
Error 1	CD changer	Displayed when the built-in battery of the CD changer has run down.	Check the instruction manual of the CD changer.
	Cassette tape	Displayed when the cassette tape is stuck and cannot be ejected.	Eliminate the cause of the sticking.
Error 2	CD	Displayed when the disc is stuck and cannot be ejected.	Press the CD button 3 .
	Cassette tape	Displayed when the cassette tape is wrong and can not be played properly. Eject the tape.	Replace the tape with another one.
	CD changer	Displayed when an error occurred in the CD changer mechanism, etc. (e.g. disc cannot be changed).	Check the CD changer.
Error 3	CD	Displayed when the pickup cannot focus when the CD is played due to scratches on the disc.	Check the disc.
	CD changer		
Error 6	CD	Displayed when the disc is loaded upside-down, or only the adapter for the 8 cm-disc is inserted.	Check the disc.
	CD changer		

13. SPECIFICATIONS

Tape Player

Tracking system: 4-track compact cassette stereo
Frequency response: 20 Hz to 18 kHz
Signal-to-noise ratio (metal tape):
DOLBY NR OFF; 55 dB
DOLBY NR B ON; 64 dB
Channel separation: 45 dB (1 kHz)
Cross talk: 50 dB (1 kHz)
Wow and flutter: 0.06% (WRMS)
Fast-forward and rewind time: approx. 100 seconds (C-60)

FM Tuner

Frequency range: 87.9 MHz to 107.9 MHz (87.5 MHz to 108 MHz)
Usable sensitivity: 12 dBf (new IHF)
50 dB quieting sensitivity: 18 dBf (new IHF)
Signal-to-noise ratio: (IHF-A) 70 dB
Frequency response: 30 to 15 kHz \pm 3 dB
Stereo separation: 35 dB (1 kHz, 60 dBf)

AM Tuner

Frequency range: 530 kHz to 1710 kHz (531 kHz to 1629 kHz)
Usable sensitivity: 28 dB (μ V)
Signal-to-noise ratio: 50 dB (monaural)

Audio Amplifier

Rated power output: 14 W \times 4 (20 Hz to 20 kHz, 1%, 4 Ω)
Maximum power output: 30 W \times 4 (EIAJ)
Equalizer control: \pm 10 dB (frequency: 60, 125, 250, 500, 1 k, 3 k, 10 kHz)
Speaker impedance: 4 Ω (4 to 8 Ω)

CD Player

Frequency response: 10 Hz to 20 kHz \pm 1 dB (EIAJ)
Signal-to-noise ratio: 96 dB (EIAJ)
Dynamic range: 95 dB (EIAJ)
THD: 0.01% (EIAJ)

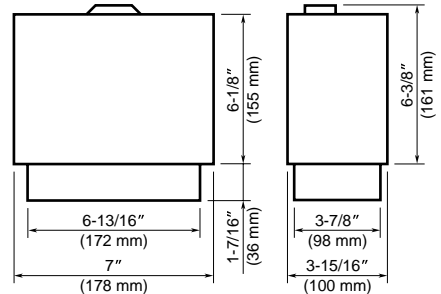
LCD Display

Screen size: Type 5 (4" (101.8 mm) Width \times 2-15/16" (74.4 mm) Height)
Display method: Transmission type TN liquid crystal display
Drive method: TFT (thin-film transistor) active matrix driving
Pixels: 224,640 (960 \times 234)

General

Power source voltage: 14.4 V DC
Ground: Negative
Current consumption: 4.0 A (1 W)
Dimensions (source unit): 7" (178 mm) Width \times 3-15/16" (100 mm) Height \times 6-3/8" (161 mm) Depth
Dimensions (tuner amplifier unit): 7" (178 mm) Width \times 7-3/4" (196 mm) Depth \times 1-1/2" (38 mm) Height
Weight (source unit): 6.17 lb. (2.8 kg)
Weight (tuner amplifier unit): 2.42 lb. (1.1 kg)

Source unit



Remote Control Unit

Infrared wireless remote control
Dimensions: 1-9/16" (40 mm) Width \times 3-3/8" (86 mm) Height \times 9/32" (6.5 mm) Depth
Weight: 0.55 oz. (15.5 g) (excluding the battery)

Notes:

- Specifications comply with EIAJ Standards.
- Specifications and design are subject to change without notice for further improvement.

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