Clarion®

Owner's manual Mode d'emploi Manual de instrucciones

 $\frac{^{D~R~Z}}{9~2~5~5}$ HIGH-FIDELITY AM/FM CD PLAYER

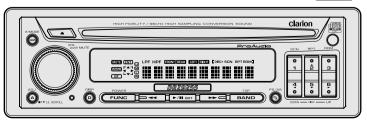
LECTEUR AM/FM CD HAUTE FIDELITE

REPRODUCTOR DE CD CON AM/FM DE ALTA FIDELIDAD









Thank you for purchasing this Clarion product.

- * Please read this owner's manual in its entirety before operating this equipment.
- * After reading this manual, be sure to keep it in a handy place (e.g., glove compartment).
- * Check the contents of the enclosed warranty card and keep it carefully with this manual.
- * This manual includes the operating procedures of the CD changer and TV tuner connected via the CeNET cable. The CD changer and TV tuner have their own manuals, but no explanations for operating them are described.

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1. FEATURES

- · 96kHz High sampling conversion sound
- Burr Brown DACs / 0.5dB STEP Burr Brown Volume
- 6N 8ch / MAX 8 Volt Gold Plated RCA Line Level Output and 4-Channel RCA AUX Input with 3 Level Adjustments
- 0.7cm STEP Time alignment / 4WAY Cross-Over / 5-BAND Parametoric EQ
- Direct (Front+Rear+Non-fader) / Standard (Front2Way+Rear+SUB) / 4-Way Multi Mode
- Alminum Upper Covered DC-DC converter
- CeNET with Balanced Audio Line Transmission and Dynamic Noise Canceling
- · IR Remote Control Included

2. PRECAUTIONS

- 1. When the inside of the car is very cold and the player is used soon after switching on the heater moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc, wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.
- Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.
- This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the ECC Bules

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help.

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USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

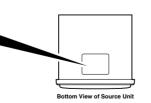
THE COMPACT DISC PLAYER and MINI DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEI

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

MODEL 12V GROUND AM 530-1710/M2/FM 87.9-107.9MHz THIS DEVICE COMPLIES WITH PART 1 OF THE PCC RULES. (1) THIS DEVICE MAY NOT CAUSE HAMPILL NITERFERROR. RANGE (1) THIS DEVICE MAY NOT CAUSE HAMPILL NITERFERROR. RECEIVED. INCLUDING INTERFERROR. THIS PRODUCTION COMPLIES WITH HAMPILL RESERVED. INCLUDING INTERFERROR. THIS PRODUCTION COMPLIES WITH OHR PRUILES IT. THIS PRODUCTION COMPLES WITH OHR PRUILES IT. SO KAMITODA TODA BRISATTAMA KEN JAPAN MANIFACTURED. EERAA. IN. EERAA. IN. CURRENCO. 13.



Handling Compact Discs

Use only compact discs bearing the DESE or mark.

Do not play heart-shaped, octagonal, or other specially shaped compact discs.

Some CDs recorded in CD-R/CD-RW mode may not be usable.

Handlina

English

- Compared to ordinary music CDs, CD-R and CD-RW discs are both easily affected by high temperature and humidity and some of CD-R and CD-RW discs may not be played. Therefore, do not leave them for a long time in the car.
- New discs may have some roughness around the edges. If such discs are used, the player may not work or the sound may skip. Use a ballpoint pen or the like to remove any



roughness from the edge of the disc.

- Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.
- Never play a compact disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a compact disc, you may not be able to get it back out of the CD player or it may damage the CD player.

- Do not use compact discs that have large scratches, are misshapen, cracked, etc. Use of such discs may cause misoperation or damage.
- To remove a 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.

 Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These may damage the disc or cause breakdown of the internal mechanism.

Storage

- Do not expose compact discs to direct sunlight or any heat source.
- Do not expose compact discs to excess humidity or dust.
- Do not expose compact discs to direct heat from heaters.

Cleaning

- 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.
- Do not use any solvents, such as commercially available cleaners, anti-static spray, or thinner to clean compact discs.
- After using special compact disc cleaner, let the compact disc dry off well before playing it.

Digital Wiring

About Reset

Digital Output

 When a 5.1ch surround decoder is connected, switch the set to direct mode.

Digital Intput

 When the optical digital cable is connected to or disconnected from this set later, press the function button while holding down direct buttons [1] and [6] with the power OFF to perform a system check.

Though pressing the reset button also performs a system check, the contents of memory will be erased completely in this case.

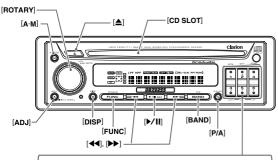
- When the digital input of a DVD changer is connected, read the Owner's Manual provided with the DVD changer, and change "AUDIO OUT" in the "GENERAL SET UP" menu to "SPDIF/PCM".
- When "AUDIO OUT" is set to "SPDIF/RAW", DIGITAL/dts audio is not output. Also, noise is sometimes output.

Be sure to unfold and read the next page. / Veuillez déplier et vous référer à la page suivante.

Cerciórese de desplegar y de leer la página siguiente.

3.CONTROLS / LES COMMANDES / CONTROLES

Source unit / Appareil pilote / Unidad fuente



[SCN]	[SCN] [RPT] [RDM]			[DIRECT]			[▲], [♥], [◄], [►]			[DOWN], [UP]		
8CN 0 1	0 2	о 3	9 1	0 2	3	0	0 2	3	0	0 2	3	
4 0	57 0	0 10	9 0	5 0	6 0	4 0	5	6	4 0	5 0	6 0	

Note: Be sure to unfold this page and refer to the front diagrams as you read each chapter. Remarque: Veuillez déplier cette page et vous référer aux schémas quand vous lisez chaque chapitre.

4. NOMENCLATURE English

· Be sure to read this chapter referring to the front diagrams of chapter "3. CONTROLS" on page 5 (unfold).

Names of the Buttons and their Functions

[ROTARY] knob

- · Adjust the volume by turning the knob clockwise or counterclockwise.
- . Mute the sound. When the knob is pressed and held for 1 second or longer, the volume is changed from 1db steps to 0.5db steps.

∫ ≜ 1 button

- · Eject a CD when it is loaded into the unit. [CD SLOT]
- · CD insertion slot.

[SCN] button

 Perform scan play for 10 seconds of each track while in the CD mode.

[RPT] button

· Repeat play while in the CD mode.

[RDM] button

· Perform random play while in the CD mode.

[DIRECT] buttons

· Store a station into memory or recall it directly while in the radio mode.

[▲], [▼] , [◄] , [▶] buttons

· Select items in the Adjust mode.

[UP]. [DOWN] buttons · Select the disc.

[P/A] button

 Perform preset scan while in the radio mode. When the button is pressed and held, auto store is performed.

[BAND] button

- · Switch the band, or seek tuning or manual tuning while in the radio mode.
- · Play a first track while in the CD mode.

[◀◀], [▶▶] buttons

- · Select a station while in the radio mode or select a track when listening to a CD. These buttons are used to make various settings.
- · Press and hold the button for 1 second or longer to switch the fast-forward/fasthackward

[| / | | button

· Play or pause a CD while in the CD mode.

[FUNC] button

- · Press the button to turn on the power. Press and hold the button for 1 second or longer to turn off the power.
- · Switches the operation mode among the radio mode, etc.

[DISP] button

· Switch the display indication (Main display, Sub display, Clock display).

- [ADJ] button
- · Press the button to enter the adjust mode. . When the button is pressed and held for 1 second or longer, the title is scrolled.

[A-M] button

- · Use the button to switch to the audio mode (bass/treble, balance/fader)
- Hold down for at least one second to turn the display OFF.

Nota: Cuando lea los capítulos, despliegue esta página y consulte los diagramas.

Major Button Operations when External Equipment is Connected to this Unit

When the CD/DVD changer is connected

 For details, see the section "CD changer operations". For the DVD changer, refer to the Owner's Manual provided with the DVD changer.

[SCN] button

 Perform scan play for 10 seconds of each track. Disc scan play is performed when the button is pressed and held.

[RPT] button

 Perform repeat play. When this button is pressed and held, disc repeat play is performed.

[RDM] button

 Perform random play. Also perform disc random play when the button is pressed and held

[UP], [DOWN] buttons

Select the disc.

[BAND] button

· Move the next disc in increasing order.

[◀◀], [▶▶] buttons

- · Select a track when listening to a disc.
- Press and hold the button for 1 second or longer to switch the fast-forward/fastbackward.

[| button

Play or pause a CD or DVD.

[DISP] button

 Press and hold the button to switch between the user titles or track titles, etc. while in the CD changer mode.

When the TV is connected

For details, see the section "TV operations".

[DIRECT] buttons

 Store a station into memory or recall it directly.

[P/A] button

Perform preset scan while in the TV mode.
 When the button is pressed and held, auto store is performed.

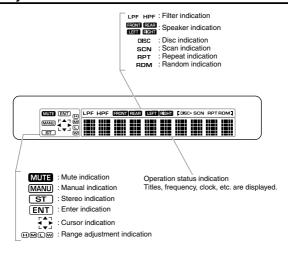
[BAND] button

- · Switch the band.
- Press and hold the button to switch between seek tuning or manual mode.

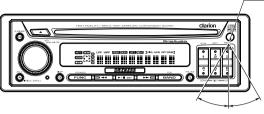
[◄◄], [▶▶] buttonsSelect a station.

[▶/II] button

Switch the TV picture mode or VTR (external) picture mode.

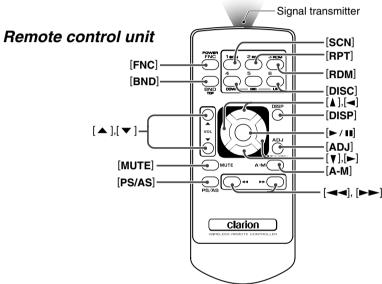


5. REMOTE CONTROL



Receiver for remote control unit

Operating range: 30° in all directions



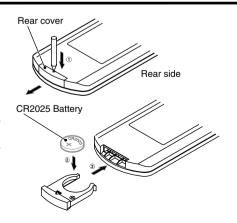
Inserting the Batteries

- Turn the remote control over, and remove the rear cover with a sharp-pointed object while pressing in the direction of the arrow.
- 2. Insert batteries (CR2025) making sure that they face the directions shown in the figure.
- 3. Press in the cover until you hear it click into place.

Notes:

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

- When replacing batteries, replace both batteries with new ones.
- Do not short-circuit, disassemble or heat batteries.
- Do not dispose of batteries into fire or flames.
- Dispose of spent batteries properly.



Functions of Remote Control Unit Buttons

Mode Button	Radio	CD	CD changer DVD changer	TV						
[FNC]	Switches among radio,	CD, CD changer, DVD cha	inger, TV and AUX.							
[BND]	Switches reception band.	Plays the first track. Top play.	Moves the next disc in increasing order.	Switches reception band.						
[▲],[▼]	Increases and decrease	s volume (in all modes).								
[◄◄], [▶▶]	Tunes in the desired station.	Moves tracks up and do When pressed and held Fast-forward/fast-backwa	for 1 second:	Tunes in the desired TV station.						
[►/II]	No function.	Switches between playb	ack and pause.	Switches between TV and VTR.						
[MUTE]	Turns mute on and off. I steps to 0.5dB steps.	Holding down the button fo	r about one second chan	ges the volume from 1dB						
[DISP]	Switches among main d	vitches among main display, sub display, clock display.								
[SCN] [1]		Scan play.	Scan play. When pressed and held for 1 second: Disc scan play.							
[RPT] [2]	Recalls the station in	Repeat play.	Repeat play. When pressed and held for 1 second: Disc repeat play.	Recalls the station in						
[RDM] [3]	the memory. When pressed and held for 1 second: Manual memory.	Random play.	Random play. When pressed and held for 1 second: Disc random play.	the memory. When pressed and held for 1 second: Manual memory.						
[DISC] [4][6]		No function.	[4]:Disk down. [6]:Disk up.							
[5]		No function.	No function.							
[▲][▼][◄][►]	Select items in the Adju	st mode.								
[PS/AS]	Preset scan. When pressed and held for 2 seconds: Auto store.	Scan play.	Scan play.	Preset scan. When pressed and held for 2 seconds: Auto store.						
[ADJ]	Enters the adjust mode. Enters the adjust mode. When pressed and held for 1 second: Title scroll.		Enters the adjust mode. When pressed and held for 1 second: Title scroll. (This function is only for CD changer.)	Enters the adjust mode.						
[A-M]	Adjusts the tone, the bal When pressed and held	lance, and the fader. for 1 second: Display off.	1	1						

^{*} Some of the corresponding buttons on the main unit and remote control unit have different functions.

6. OPERATIONS

Basic Operations

Note: Be sure to read this chapter referring to the front diagrams of chapter "3. CONTROLS" on page 5 (unfold).

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Be sure to lower the volume before switching off the unit power or the ignition key. The unit remembers its last volume setting. If you switch the power off with the volume up, when you switch the power back on, the sudden loud volume may hurt your hearing and damage the unit.

Turning on/off the power

- Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.
- 1. Press the [FUNC] button.
- The illumination and display on the unit light up. The unit automatically remembers its last operation mode and will automatically switch to display that mode.
- Press and hold the [FUNC] button for 1 second or longer to turn off the power for the unit.

Note:

· System check

The first time this unit is turned on after the wire connections are completed, it must be checked what equipment is connected. When the power is turned on, "SYSTEM CHK" and "Push POWER" appear in the display alternately, so press the [FUNC] button. The system check starts within the unit. When the system check is complete, press the [FUNC] button again.

Selecting a mode

- 1. Press the [**FUNC**] button to change the operation mode.
- Each time you press the [FUNC] button, the operation mode changes in the following order:

Radio mode →CD mode → CD changer mode → DVD changer mode → TV mode → AUX mode → Radio mode...

* External equipment not connected with CeNET is not displayed.

Adjusting the volume

Turning the [ROTARY] knob clockwise increases the volume; turning it counterclockwise decreases the volume.

- * The volume level is from ---- (minimum) to +6dB (maximum).
- * Holding down the [ROTARY] knob switches the volume from 1dB steps to 0.5dB steps.

Mute the sound

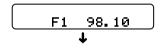
To mute the volume during playback, press the [ROTARY] knob.

Switching the display

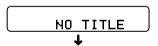
Press the [**DISP**] button to select the desired display.

Each time you press the [**DISP**] button, the display switches in the following order:

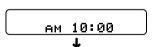
Main display



Sub display



Clock display



Main display

* Once selected, the preferred display becomes the display default. When a function adjustment such as volume is made, the screen will momentarily switch to that function's display, then revert back to the preferred display several seconds after the adjustment.

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Basic Operations

English

Turning on/off the display

You can turn the display ON/OFF by holding the [A-M] button down for at least one second. You can also turn the display ON by pressing the [DISP] button while the display is OFF.

Adjusting the tone

Press the [A-M] button and select the item to adjust. Each time you press the [A-M] button. the item changes in the following order:

- * "BASS" and "TREB" are displayed when "BASS/ TREB" are selected at EQ SELECT.
- When "STD" is set
- "SW-VOL" *1 → "BASS" *2 → "TREBLE" *2 → "BAL" → "FADER" → Last function mode.
- When "DIRECT" is set
- "N-FAD VOL" → "BAL" → "FADER" → Last function mode.
- When "MULTI" is set
 - "SW-VOL" *1 → "BASS" *2 → "TREBLE" *2 → "BAL" → Last function mode.
- *1 The item can be adjusted when the sub-woofer setting is not set to "OFF".
- *2 The item can be adjusted when "EQ SELECT" in the Adjust mode is set to "BASS/TREB".

Adjusting the volume of subwoofer/non-fader output

These items can be adjusted when the subwoofer/non-fader setting is "ST" (stereo) or "MONO" (monaural).

- * The factory default setting is "0.0 dB".
- 1. Press the [A-M] button to select "SW-VOL" or "N-FAD VOL".
 - * Select "SW-VOL" when the Audio mode is the Standard mode or the Multi mode, and "N-FAD VOL" when the Audio mode is the Direct mode.
- 2. Press the [▲] or [▼] button to set the output volume.
 - * The adjustment range is -10.0 dB to +10.0 dB (0.5 dB steps).
- 3. Press the [A-M] button several times to return to the previous mode.

Adjusting the bass/treble

This function is used to set the tone in more detail for listening.

- The tone can be adjusted when the Equalizer mode is set to "BASS/TREB".
- * This can be adjusted when the Audio mode is the Standard mode or the Multi mode.
- * The factory default setting is "0 dB".
- 1. Press the [A-M] button to select "BASS" or "TREB".
- 2. Press the [▲] or [▼] button to adjust the output volume.
 - * The adjustment range is -12 dB to +12 dB
- 3. Press the [A-M] button several times to return to the previous mode.

Adjusting the balance/fader

- "FADER" (fader) can be adjusted when the Audio mode is the Standard mode or the Direct mode.
- * The factory default setting is "0".
- 1. Press the [A-M] button to select "BAL" or "FADER".
- 2. Press the [▲] or [▼] button to adjust the volume.

Adjusting the balance (volume of the left and right speakers)

To enhance the left side, press the [▼] button. To enhance the right side, press the [] button.

* The adjustment range is L13 to R13.

Adjusting the fader (volume of the front and rear speakers)

To enhance the rear side, press the [▼] button.

To enhance the front side, press the []

- * The adjustment range is R12 to F12.
- 3. Press the [A-M] button several times to return to the previous mode.

Radio Operations

FM reception

For enhanced FM performance the MAGI-TUNETS® tuner includes signal actuated stereo control. Enhanced Multi AGC. Impulse noise reduction curcuits and Multipath noise reduction circuits.

Listening to the radio

- 1. Press the [FUNC] button and select the radio mode. The frequency appears in the display.
- 2. Press the [BAND] button and select the radio band. Each time the button is pressed, the radio reception band changes in the following order:
 - $FM1 \rightarrow FM2 \rightarrow FM3 \rightarrow AM \rightarrow FM1...$
- 3. Press the [◀◀] or [▶▶] button to tune in the desired station.

Tunina

There are 3 types of tuning mode available, seek tuning, manual tuning and preset tuning.

Seek tuning

- 1. Press the [BAND] button and select the desired band (FM or AM).
 - * If "MANU" is lit in the display, press and hold the [BAND] button for 1 second or longer. "MANU" in the display goes off and seek tuning is now available.
- 2. Press the [◀◀] or [▶▶] button to automatically seek a station.

When the [>>] button is pressed, the station is sought in the direction of higher frequencies; if the [◀◀] button is pressed, the station is sought in the direction of lower frequencies.

Manual tuning

There are 2 ways available: Quick tuning and step tuning.

When you are in the step tuning mode, the frequency changes one step at a time. In the guick tuning mode, you can guickly tune the desired frequency.

- 1. Press the [BAND] button and select the desired band (FM or AM).
 - * If "MANU" is not lit in the display, press and hold the [BAND] button for 1 second or longer. "MANU" is lit in the display and manual tuning is now available.
- 2. Tune in a station.

• Quick tuning:

Press and hold the [◀◀] or [▶▶] button for 1 second or longer to tune in a station.

Step tuning:

Press the [◀◀] or [▶▶] button to manually tune in a station.

Recalling a preset station

A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exist to store individual radio stations in memory. Pressing the corresponding [DIRECT] button recalls the stored radio frequency automatically.

- 1. Press the [BAND] button and select the desired band (FM or AM).
- 2. Press the corresponding [DIRECT] button to recall the stored station.
 - * Press and hold one of the [DIRECT] buttons for 2 seconds or longer to store that station into preset memory.

Manual memory

- 1. Select the desired station with seek tuning, manual tuning or preset tuning.
- 2. Press and hold one of the [DIRECT] buttons for 2 seconds or longer to store the current station into preset memory.

Auto store

Auto store is a function for storing up to 6 stations that are automatically tuned in sequentially. If 6 receivable stations cannot be received, a previously stored station remains unoverwritten at the memory position.

- 1. Press the [BAND] button and select the desired band (FM or AM).
- 2. Press and hold the [P/A] button for 2 seconds or longer. The stations with good reception are stored automatically to the preset channels.
 - * If auto store is performed in the FM bands, the stations are stored in FM3 even if FM1 or FM2 was chosen for storing stations.

Preset scan

Preset scan receives the stations stored in preset memory in order. This function is useful when searching for a desired station in memory.

- 1. Press the [P/A] button.
- 2. When a desired station is tuned in, press the [P/A] button again to continue receiving that station.

Note:

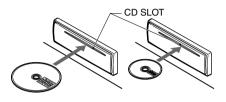
• Be careful not to press and hold the [P/A] button for 2 seconds or longer, otherwise the auto store function is engaged and the unit starts storing stations.

Loading a CD

Insert a CD into the center of the CD SLOT with the labeled side facing up. "LOADING" appears in the display, the CD enters into the slot, and the play starts.

For CD (12 cm)

For single CD (8 cm)



Notes:

- · Never insert foreign objects into the CD SLOT.
- If the CD is not inserted easily, there may be another CD in the mechanism or the unit may reauire service.
- Discs not bearing the @ISC CD-ROMs cannot be played by this unit.
- Some CDs recorded in CD-R/CD-RW mode may not be usable.

Loading 8 cm compact discs

- * No adapter is required to play an 8 cm CD.
- * Insert the 8 cm CD into the center of the insertion slot.

Listening to a CD already inserted

Press the [FUNC] button to select the CD mode. Play starts automatically. If no CD is loaded in the unit, "NO DISC" appears in the display.

Pausing play

- 1. Press the [▶/Ⅱ] button to pause play. "PAUSE" appears in the display.
- 2. To resume CD play, press the [▶/Ⅱ] button again.

Displaying CD titles

DRZ9255

This unit can display title data for CD-text CDs and user titles input with this unit.

- 1. Press the [DISP] button to display the title.
- 2. Each time you press and hold the [DISP] button for 1 second or longer, the title display changes in the following order: CD-text title (disc) → Artist name → CD-text title (track) ...

Note:

• If the CD playing is not a CD-text CD or no user title has been input. "NO TITLE" appears in the display.

Eiectina a CD

1. Press the [▲] to eject the CD. Take it out from the ejected position.

Note:

- If you force a CD into before auto reloading, the CD can be damaged.
- * If a CD (12 cm) is left in the ejected position for 15 seconds, the CD is automatically reloaded (Auto reload).
- * 8 cm CDs are not auto reloaded. Be sure to remove it when ejected.

Selecting a track

● Track-up

- 1. Press the [▶▶] button to move ahead to the beginning of the next track.
- 2. Each time you press the [▶▶] button, the track advances ahead to the beginning of the next track.

Track-down

- 1. Press the [◀◀] button to move back to the beginning of the current track.
- 2. Press the [◀◀] button twice to move to the beginning of the previous track.

Fast-forward/fast-backward

Fast-forward

Press and hold the [>>] button for 1 second or

Fast-backward

Press and hold the [◄◄] button for 1 second or longer.

Top function

The top function resets the CD player to the first track of the disc. Press the [BAND] button to play the first track (track No. 1) on the disc.

Scan play

The scan play locates and plays the first 10 seconds of each track on a disc automatically. This function continues on the disc until it is cancelled.

- * The scan play is useful when you want to select a desired track.
- 1. Press the [SCN] button to start scan play. "SCN" lights in the display.
- 2. To cancel the scan play, press the [SCN] button again. "SCN" goes off from the display and the current track continues to play.

Repeat play

The repeat play continuously plays the current track. This function continues automatically until it is cancelled.

- 1. Press the [RPT] button. "RPT" lights in the display and the current track is repeated.
- 2. To cancel the repeat play, press the [RPT] button again. "RPT" goes off from the display and normal play resumes.

Random play

The random play selects and plays individual tracks on a disc in no particular order. This function continues automatically until it is cancelled.

- 1. Press the [RDM] button. "RDM" lights in the display, an individual track is selected randomly and play begins.
- 2. To cancel the random play, press the [RDM] button again. "RDM" goes off from the display and normal play resumes.

Operations Common to Each Mode

Setting the clock

This unit displays the time when the car engine is running (ACC ON).

The clock is displayed in 12-hour format.

- When a navigation system is connected, the clock cannot be adjusted as clock data is sent from the navigation system.
- 1. Press the [ADJ] button. The previously adjusted item "CLOCK", for example, is displayed on the title display, and the mode changes to the Adjust mode.
- 2. Press the [◀] or [▶] button to select "CLOCK".
- 3. Press the [/ II] button. The time at adjustment (e.g. "PM 2:20") is displayed, and the mode changes to the Clock setup mode.



- * The clock is not adjusted if you press any other button while you are setting the clock.
- 4. Press the [◀] or [▶] button to select hours or minutes. Items that are blinking can be
- 5. Press the [▲] or [▼] button to set the setting for the item.
- 6. Press the [►/II] button. You will hear a short high-pitched sound, and the clock will be set.

Note:

- You cannot set the clock when it is displayed with the power turned OFF.
- Set the clock again if you remove the battery for inspection or repairs.
- 7. Press the [ADJ] button to return to the previous mode.

Selecting the sampling frequency (SAMPLING)

●About the sampling frequency

You can switch between 96 kHz and 48 kHz as the sampling frequency.

When the sampling frequency is set to 96 kHz, high band spread, depth of tones and transparency of sound are improved.

- * The factory default setting is "fs=96 kHz".
- Press the [ADJ] button.
- 2. Press the [◀] or [▶] button to select "SAMPLING".
- 3. Press the [▲] or [▼] button to select "fs=96kHz" or "NORMAL" (fs=48kHz).
- 4. Press the [ADJ] button to return to the previous mode.

Selecting the audio mode (MODE)

- * The factory default setting is "STANDARD".
- Standard mode <STANDARD>/Multi mode <MULTI>

This is used to make various sound adjustments for playback. For details, see "About the Standard mode and Multi mode" (page 18)

●Direct mode <DIRECT>

This is used to playback tones as they are without adjusting the tones of this unit. The configuration of the speaker system becomes "front (2ch) + rear (2ch) + non-fader (2ch)."

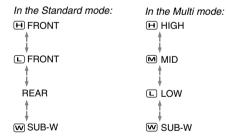
- 1. Press the [ADJ] button.
- 2. Press the [◀] or [▶] button to select "MODE".
- 3. Press the [▲] or [▼] button to select "STANDARD". "DIRECT" or "MULTI".
- 4. Press the [ADJ] button to return to the previous mode.

Adjusting the filter (FILTER/X-OVER)

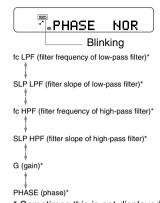
The filter can be adjusted for each speaker. For details, see "About filter settings" (page 18).

- * The filter can be adjusted when the Audio mode is the Standard mode or the Multi mode.
- 1. Press the [ADJ] button.
- 2. Press the [◀] or [▶] button to select "SOUND".
- 3. Press the [▶/II] button.
- 4. Press the [▲] or [▼] button to select "FILTER" or "X-OVER".
 - * Select "FILTER" when the Audio mode is the Standard mode, and "X-OVER" when the Audio mode is the Multi mode.
- 5. Press the [◀] or [▶] button to select "ℍ FRONT" or "H HIGH".
 - * Select "H FRONT" when the Audio mode is the Standard mode, and "FI HIGH" when the Audio mode is the Multi mode.
- 6. Press the [▲] or [▼] button to select the speaker to adjust.
 - * The mute function of a selected speaker can be turned ON/OFF by pressing the [ROTARY] knob while the speaker is selected.

Each press of the buttons switches the setting as follows:



- 7. Press the [▶] button.
- 8. Press the [▲] or [▼] button to select the speaker adjustment item. Each press of the buttons switches the adjustment item.



- * Sometimes this is not displayed depending on the selected speaker.
- 9. Press the [/ II] button. The setting value
- 10. Press the [▲] or [▼] button to adjust the setting.
 - * For details of the adjustment ranges of each adjustment item, see "About filter settings" (page 18).
- 11. When you have finished the adjustment, press the [/ II] button to return to the screen in step 8. This sets the setting value.
- 12. Repeat steps 8 to 11 to adjust the adjustment items for the selected speaker.
- 13. When you have finished the adjustment, press the [◀] button to return to the screen in step 6.
- 14. Repeat steps 6 to 13 to adjust the filter of each speaker.
- 15. Press the [ADJ] button to return to the previous mode.

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About the Standard mode and Multi mode

These two modes can be used to make the following various sound adjustments for playing back music sources:

- Setting of the filter (high-pass filter and low-pass filter) frequency for each speaker
- Tone adjustment by P.EQ (parametric equalizer) or BASS/TREB (bass/treble)
- Position setting by TIME ALIGN (time alignment)
- Sub-woofer "ST" (stereo), "MONO" (monaural) and "OFF"

Select the Standard mode or the Multi mode according to your speaker configuration.

- Standard mode: H FRONT(2ch) + L FRONT(2ch) + REAR(2ch) + W SUB-W(2ch)
- Multi mode: H HIGH(2ch) + M MID(2ch) + L LOW(2ch) + W SUB-W(2ch)

About filter settings

The following filters can be set for each speaker:

- Filter frequency (fc)
- Filter slope (SLP)
- Gain (G)
- Phase (PHASE)

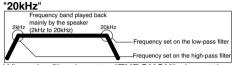
Notes:

 Input of a low-band signal to the tweeter may cause a malfunction.

About filter frequency (fc)

The filter (high-pass filter and low-pass filter) frequency can be set for each speaker according to the characteristics of the speaker. Set the lower limit frequency to be played back mainly on that speaker on the high-pass filter (simply called "HPF" from here on), and set the upper limit frequency on the low-pass filter (simply called "LPF" from here on).

When HPF is set to "2kHz" and LPF is set to

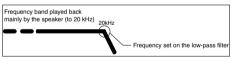


When the filter is set to "THROUGH", the setting for that filter is disabled, and all frequencies are played back.

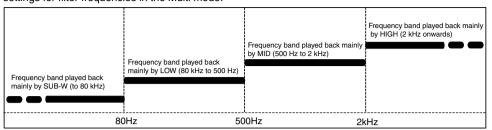
When HPF is set to "2kHz" and LPF is set to "THROUGH"



When HPF is set to "THROUGH" and LPF is set to "20kHz"



The following figure shows the factory default settings for filter frequencies in the Multi mode.



The filter frequency ranges that can be set vary according to the speaker. The following table shows these ranges.

Note, however, that the frequencies are selected from the value (1/3 octave steps) currently set on this unit.

	Speaker	HPF (lower limit	LPF (upper limit
		frequency)	frequency)
Standard		315Hz to 20kHz	-
		(factory default setting: 2kHz)	
	■ FRONT	-	250Hz to 20kHz, THROUGH
			(factory default setting: 2kHz)
	REAR	THROUGH, 25Hz to 250Hz	-
		(factory default setting:THROUGH)	
	■ SUB-W	THROUGH, 16Hz to 80Hz	25Hz to 250Hz, THROUGH
		(factory default setting:THROUGH)	(factory default setting: 80Hz)
Multi	⊞ HIGH	315Hz to 20kHz	-
		(factory default setting: 2kHz)	
	M MID	THROUGH, 200Hz to 10kHz	250Hz to 20kHz, THROUGH
		(factory default setting: 500 Hz)	(factory default setting: 2kHz)
	□ LOW	THROUGH, 25Hz to 250Hz	250Hz to 10kHz, THROUGH
		(factory default setting: 80Hz)	(factory default setting: 500 Hz)
	w SUB-W	THROUGH, 16Hz to 80Hz	25Hz to 250Hz, THROUGH
		(factory default setting: THROUGH)	(factory default setting: 80Hz)

-: THROUGH (fixed) cannot be changed.

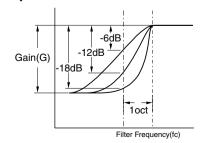
About filter slope (SLP)

Effectiveness can be adjusted for each filter (HPF or LPF).

- "-12dB/oct" is more effective than "-6dB/oct" and
- "-18dB/oct" is much more effective.

The factory default setting is "-12dB/oct". Try switching between "-6dB/oct", "-12dB/oct" and "-18dB/oct" and select the setting that sounds most natural to you.

Characteristics during filter slope adjustment



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Operations Common to Each Mode

About gain (G)

English

This function allows you to adjust how much the output level is to be lowered.

Characteristics during gain adjustment



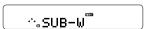
About phase (PHASE)

The factory default setting is "NOR" (forward phase). Try switching between "NOR" (forward phase) and "REV" (reverse phase) and select the setting that sounds most natural to you.

Adjusting the position (TIME ALIGN) ●About the time alignment function

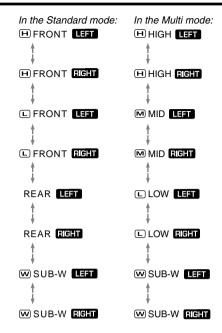
This function allows you to adjust the speakers so that any listener in the car can obtain the same sound effect from the speakers.

- * This item can be adjusted when the Audio mode is the Standard mode or the Multi mode.
- 1. Press the [ADJ] button.
- 2. Press the [◀] or [▶] button to select "SOUND".
- 3. Press the [▶/II] button.
- 4. Press the [▲] or [▼] button to select "TIME ALIGN".
- 5. Press the [◀] or [▶] button to select "ℍ FRONT GEET " or "FI HIGH GEET".
 - * Select "(H) FRONT FRONT when the Audio mode is the Standard mode, and "H HIGH "when the Audio mode is the Multi mode.
- 6. Press the [▲] or [▼] button to select the speaker to adjust.

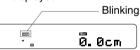


* The mute function of a selected speaker can be turned ON/OFF by pressing the [ROTARY] knob while the speaker is selected.

Each press of the button switches the setting as follows.



7. Press the [▶] button. The setting value is displayed.



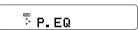
- 8. Press the [/ II] button. The setting value
- 9. Press the [▲] or [▼] button to set the distance from the speaker up to the listener.
 - * The adjustment range is 0 cm to 512.4 cm (in about 0.7 cm steps).
 - * The range can be adjusted in about 7 cm steps by holding down the $[\blacktriangle]$ or $[\blacktriangledown]$ buttons.
 - * For details, see "Appendix: Time Alignment List" (page 32).
- 10. When you have finished the adjustment, press the [/ II] button to return to the screen in step 7. This sets the setting value.
- 11. Press the [◀] button to return to the screen in step 6.
- 12. Repeat steps 6 to 11 to adjust the position of each speaker.
- 13. Press the [ADJ] button to return to the previous mode.

Adiustina P.EQ

● About P.EQ (Parametric Equalizer)

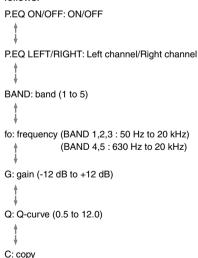
This function allows you to correct in detail all frequency levels by a smooth curve by correcting frequencies matched to the type of your car.

- * This can be adjusted when the Equalizer mode is set to "P.EQ".
- * This can be adjusted when the Audio mode is the Standard mode or the Multi mode.
- 1. Press the [ADJ] button.
- 2. Press the [◀] or [▶] button to select "SOUND".
- 3. Press the [▶/II] button.
- 4. Press the [▲] or [▼] button to select "P.EQ".
- 5. Press the [▶] button.
- 6. Press the [▲] or [▼] button to select the adjustment item.



* Pressing the [ROTARY] knob while the L/R channel is selected turns the mute function of the selected channel ON/OFF.

Each press of the button switches the setting as follows.



- 7. Press the [▶/II] button. The setting value blinks.
- 8. Press the [▲] or [▼] button to adjust the setting.
- 9. When you have finished the adjustment, press the [/ II] button to return to the screen in step 6. This sets the setting value.
- 10. Repeat steps 6 to 9 to adjust each of the adjustment items.
- 11. Press the [ADJ] button to return to the previous mode.

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●About P.EQ adjustment

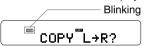
The P.EQ menu contains the following adjustment items.

- Selection of channel (LEFT/RIGHT)
 Select the channel (left or right) to be adjusted.
- Selection of band (BAND)
 Select the frequency band (1 to 5) to be adjusted.
- Selection of center frequency (fo)
 Select the frequency to be taken as the center frequency in frequency correction.

Bands 1 to 3: Select from the range 50 Hz to 20 kHz (1/3 octave steps, 27 points)

Bands 4 and 5: Select from the range 630 Hz to 20 kHz (1/3 octave steps, 16 points)

- Gain adjustment (GAIN)
 Gain (output level) can be adjusted within the range -12 dB to +12 dB.
 (0.5 dB steps, 49 points)
- Selection of Q-curve (Q)
 Select the sharpness of the Q-curve within the range 0.5 to 12.0.
 (0.5 steps, 24 points)
- Copying adjustment values (COPY)
 Select whether or not to copy the channel settings
 currently being adjusted to another channel.
 When you press the [>/II] button, the copy
 confirmation screen is displayed.



* L: shows the channel being adjusted while R: shows un-adjusted channels.

Holding down the [\| \forall \] button for about 1 second copies the settings, and returns to the previous screen.

To return to the previous screen without copying the settings, press the [▶/Ⅱ] button.

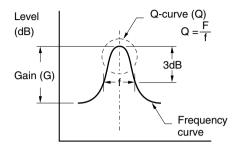
About correction

When the frequency characteristics are measured by a measuring device, they do not need to be corrected if the frequency characteristics are flat (no ridges or valleys in the frequency waveform). However, frequency characteristics sometimes partially rise up or fall down. If this happens, create a frequency curve of inverse characteristics matched to the center frequency of the ridges or valleys in the frequency waveform. This corrects the frequency characteristics so that they are flat.

"Correction" is the process or making frequency characteristics as flat as possible.

About correction of frequency characteristics

The following figure shows the relationship between center frequency, gain and Q-curve.

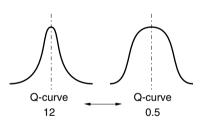


About Q-curve

The following figure and the table show the relationship between center frequency, gain and Q-curve.

When a large numerical value is set, the Q-curve becomes sharper, and when a small numerical value is set, the Q-curve becomes gentler.

Flat frequency characteristics can be made by selecting a Q-curve inverted to the frequency curve to be corrected.



fo: Center frequency, G: gain (output level), Q: Q-curve

	Parametric equalizer parameters										
BAND	Left cl	nannel		Right channel							
	fo	G	Q	fo	G	Q					
BAND1	50Hz*1	0dB	1	50Hz*1	0dB	1					
BAND2	160Hz*1	0dB	1	160Hz*1	0dB	1					
BAND3	500Hz*1	0dB	1	500Hz*1	0dB	1					
BAND4	2kHz*2	0dB	1	2kHz*2	0dB	1					
BAND5	8kHz*2	0dB	1	8kHz*2	0dB	1					

^{*1} Select from range 50 Hz to 20 kHz

Saving the filter setting/time alignment setting/P.EQ setting (MEMORY)

Three groups of adjustment settings made to suit your car can be saved for both the Standard mode and Multi mode.

- * P.EQ settings are not saved when the Equalizer mode is set to "BASS/TREB".
- 1. Press the [ADJ] button.
- 2. Press the [◀] or [▶] button to select "SOUND".
- 3. Press the [▶/II] button.
- Press the [▲] or [▼] button to select "MEMORY".
- 5. Press the [▶] button.
- Press the [▲] or [▼] button to select "MEMORY1", "MEMORY2", "MEMORY3" or "DEFAULT".
 - * The factory default setting is "**DEFAULT**". This setting can be called up but cannot be changed to other settings.
- 7. Hold down the [| button for about 1 second. "SAVE?" is displayed.
- Hold down the [>/II] button for about 1 second. You will hear a short high-pitched sound, and the filter settings, time alignment settings and P.EQ settings are saved to the memory (1 to 3) selected in step 6.
- Press the [ADJ] button to return to the previous mode.

●To call up saved settings

At step 7, press the [**>/II**] button, and hold down the [**>/II**] button for about 1 second when "**LOAD?**" is displayed.

You will hear a short high-pitched sound, and the settings are called up. Press the [ADJ] button to return to the previous mode.

* When the Equalizer mode is set to "BASS/TREB", the P.EQ settings that are called up are reflected when the Equalizer mode setting is changed to "P.EQ".

About settings after a reset

When the [RESET] button is pressed to reset this unit, all settings set here disappear. Make a note of the settings in the Sound Setup Memo (page 34) to make these settings again after a reset.

Selecting the equalizer mode (EQ SELECT)

This item can be selected when the Audio mode is the Standard mode or the Multi mode.

The factory default setting is "P.EQ".

●Parametric equalizer mode <P.EQ>

The sound field can be adjusted by the P.EQ of five bands. For details on P.EQ adjustment, see "Adjusting P.EQ" (page 21).

●Bass/treble mode <BASS/TREB>

The sound field can be adjusted by bass/treble. For details on bass/treble adjustment, see "Adjusting the bass/treble" (page 12).

- 1. Press the [ADJ] button.
- Press the [◄] or [►] button to select "EQ SELECT".
- Press the [▲] or [▼] button to select "P.EQ" or "BASS/TREB".
- 4. Press the [**ADJ**] button to return to the previous mode.

Setting the sub-woofer/non-fader (SUB-WOOFER/NON-FADER)

Set to "ST" (stereo) or "MONO" (monaural) when a sub-woofer/non-fader is connected. There is no output when "OFF" is set.

- * The factory default setting is "ST".
- 1. Press the [ADJ] button.
- Press the [◄] or [▶] button to select "SUB-WOOFER" or "NON-FADER".
 - * Select "SUB-WOOFER" when the Audio mode is the Standard mode or the Multi mode, and "NON-FADER" when the Audio mode is Direct mode.
- 3. Press the [▲] or [▼] button to select "ST" (stereo), "MONO" (monaural) or "OFF".
- 4. Press the [ADJ] button to return to the previous mode.

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^{*2} Select from range 630 Hz to 20 kHz

English

Setting the input level for portable audio (AUX SENS)

This unit is provided with two AUX input lines. The input level for third-party portable audio connected to each of these lines can be set.

- * The factory default setting is "MID".
- 1. Press the [ADJ] button.
- 2. Press the [◀] or [▶] button to select "AUX SFNS"
- 3. Press the [/ II] button.
- 4. Press the [▲] or [▼] button to select the input line.



Each press of the button switches the line as follows:

AUX1 SENS: Input line 1 AUX2 SENS: Input line 2

- 5 Press the [▶] button.
- 6. Press the [▲] or [▼] button to select "HIGH", "MID" or "LOW".
- 7. When you select this, press the [◀] button to return to the screen in step 4.
- 8. Repeat steps 4 to 7 to set the input level of each input line.
- 9. Press the [ADJ] button to return to the previous mode.

Setting the digital output (D-OUT)

Set digital output ON when the digital output connector is used as the digital output connector of the built-in CD. There is no output when "OFF" is set.

- * This item cannot be set when a CD changer is connected via the CeNET cable.
- * The factory default setting is "OFF".
- 1. Press the [ADJ] button.
- 2. Press the [◀] or [▶] button to select "D-OUT".
- 3. Press the [▲] or [▼] button to select "ON" or "OFF".
- 4. Press the [ADJ] button to return to the previous mode.

Setting the anti-theft indicator (BLINK LED)

This function makes the indicator of Pch6 blink (red) when ACC is OFF to create a visual antitheft effect.

- * The factory default setting is "OFF".
- 1. Press the [ADJ] button.
- 2. Press the [◀] or [▶] button to select "BLINK-LED".
- 3. Press the [▲] or [▼] button to select "ON" or "OFF".
- 4. Press the [ADJ] button to return to the previous mode.

Setting the beep tone during button operation (BEEP)

A high-pitched beep tone is emitted when you operate a button. This beep output can be disabled.

- * The factory default setting is "ON".
- 1. Press the [ADJ] button.
- 2. Press the [◀] or [▶] button to select "BEEP".
- 3. Press the [▲] or [▼] button to select "ON" or "OFF"
- 4. Press the [ADJ] button to return to the previous mode.

7. OPERATIONS OF ACCESSORIES

CD Changer Operations

CD changer functions

When an optional CD changer is connected through the CeNET cable, this unit controls all CD changer functions. This unit can control a total of 2 changers.

Press the [FUNC] button and select the CD changer mode to start play. If 2 CD changers are connected, press the [FUNC] button to select the CD changer for play.

- * If "NO MAG" appears in the display, insert the magazine into the CD changer, "DISC CHK" appears in the display while the player loads (checks) the
- * If "NO DISC" appears in the display, eject the magazine and insert discs into each slot. Then, reinsert the magazine back into the CD changer.

Note:

 Some CDs recorded in CD-R/CD-RW mode may not be usable.

ACAUTION

CD-ROM discs cannot be played from every CD changer, it depends on the model.

Pausing play

- 1. Press the [/ II] button to pause play. "PAUSE" appears in the display.
- 2. To resume play, press the [>/II] button again.

Displaying CD titles

This unit can display title data for CD-text CDs and user titles input with this unit.

- * Title data for CD-text CDs can be displayed with this unit only when it is connected to CDC655Tz.
- When connected to DCZ625 or CDC1255z.

Press the [DISP] button to display the title.

When connected to CDC655Tz

- 1. Press the [DISP] button to display the title.
- 2. Each time you press and hold the [DISP] button for 1 second or longer, the title display changes in the following order:
 - CD-text title (disc) → Artist name → CD-text title (track) ...

Notes:

- If the CD plaving is not a CD-text CD or no user title has been input, "NO TITLE" appears in the
- If a CD-text CD is not input its disc title or a track title, "NO TITLE" appears in the display.

Procedure to scroll a title

- 1. Press and hold the [ADJ] button for 1 second or longer.
- 2. The title is scrolled.

Selecting a CD

- 1. Press the [UP] or [DOWN] button to select the desired disc.
 - * If a CD is not loaded in a slot of magazine. pressing the [UP] or [DOWN] buton can not work.

CD Changer Operations

Selecting a track

● Track-up

English

- Press the [>>] button to move ahead to the beginning of the next track.
- Each time you press the [►►] button, the track advances ahead to the beginning of the next track.

● Track-down

- Press the [◄◄] button to move back to the beginning of the current track.
- 2. Press the [◀◀] button twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● Fast-forward

Press and hold the [>>] button for 1 second or longer.

Fast-backward

Press and hold the [◄◀] button for 1 second or longer.

Scan play

Scan play locates and plays the first 10 seconds of each track on a disc automatically. This function continues on the disc until it is cancelled.

- * The scan play is useful when you want to select a desired track.
- 1. Press the [SCN] button to start track scanning. "SCN" lights in the display.
- To cancel the scan play, press the [SCN] button again. "SCN" goes off from the display and the current track continues to play.

Disc scan play

Disc scan play locates and plays the first 10 seconds of the first track on each disc in the currently selected CD changer. This function continues automatically until it is cancelled.

- Disc scan play is useful when you want to select a desired CD.
- Press and hold the [SCN] button for 1 second or longer. "DISC" and "SCN" light in the display and disc scan play starts.
- To cancel disc scan play, press the [SCN] button again. "DISC" and "SCN" go off from the display and the current track continues to play.

Repeat play

Repeat play continuously plays the current track. This function continues automatically until it is cancelled.

- 1. Press the [RPT] button. "RPT" lights in the display and the current track is repeated.
- To cancel repeat play, press the [RPT] button again. "RPT" goes off from the display and normal play resumes.

Disc repeat play

After all the tracks on the current disc have been played, disc repeat play automatically replays the current disc over from the first track. This function continues automatically until it is cancelled.

- Press and hold the [RPT] button for 1 second or longer. "DISC" and "RPT" light in the display and disc repeat play starts.
- To cancel disc repeat play, press the [RPT] button again. "DISC" and "RPT" go off from the display and normal play resumes on the current track.

Random play

Random play selects and plays individual tracks on the disc in no particular order. This function continues automatically until it is cancelled.

- 1. Press the [RDM] button. "RDM" lights in the display and random play begins.
- To cancel random play, press the [RDM] button again. "RDM" goes off from the display and normal play resumes.

Disc random play

The disc random play selects and plays individual tracks or discs automatically in no particular order. This function continues automatically until it is cancelled.

- Press and hold the [RDM] button for 1 second or longer. "DISC" and "RDM" light in the display and disc random play starts.
- To cancel disc random play, press the [RDM] button again. "DISC" and "RDM" go off from the display and normal play resumes from the current track.

TV Operations

TV tuner functions

When an optional TV tuner is connected through the CeNET cable, this unit controls all TV tuner functions. To watch a TV, a TV tuner and a monitor are required.

Watching a TV

- Press the [FUNC] button and select the TV mode.
- Press the [BAND] button to select the desired TV band (TV1 or TV2). Each time the button is pressed, the input selection toggles between TV1 and TV2.
- Press the [◄◄] or [▶▶] button to tune in the desired TV station.

Watching a video

The TV tuner has a VTR input terminal to which 1 external device can be connected. Connect a 12 V video cassette player (VCP) or video cassette recorder (VCR) to the TV tuner input terminal.

- 1. Press the [/ II] button to select VTR.
- 2. To return to the TV broadcast, press the [\[\]] button.

Tuning

There are 3 types of tuning mode available, Seek tuning, manual tuning and preset tuning.

Seek tuning

- Press the [BAND] button and select the desired TV band (TV1 or TV2).
 - * If "MANU" is lit in the display, press and hold the [BAND] button for 1 second or longer. "MANU" in the display goes off and seek tuning is now available.
- Press the [◄◄] or [▶▶] button to automatically seek a station. Press the [▶▶] button to automatically tune up the frequency band to the next available TV station; press the [◄◄] button to automatically tune down.

Manual tuning

There are 2 ways available: Quick tuning and step tuning.

When you are in the step tuning mode, the frequency changes one step at a time. In the quick tuning mode, you can quickly tune the desired frequency.

- 1. Press the [BAND] button and select the desired band (TV1 or TV2).
 - * If "MANU" is not lit in the display, press and hold the [BAND] button for 1 second or longer. "MANU" lights in the display and manual tuning is now available.
- 2. Tune in a station.
- Quick tuning:

Press and hold the [◀◀] or [▶▶] button for 1 second or longer to tune in a station.

Step tuning:

Press the [◀◀] or [▶▶] button to manually tune in a station.

Recalling a preset station

A total of 12 TV stations can be stored (6-TV1 and 6-TV2). This allows you to select your favorite TV stations and store them in memory for later recall.

- 1. Press the [**BAND**] button and select the desired TV band (TV1 or TV2).
- To recall a stored TV station, press the desired [DIRECT] button to select that station.
 - * Press and hold one of the [DIRECT] buttons for 2 seconds or longer to store the current station into preset memory.

Manual memory

- Select the desired station with seek tuning, manual tuning or preset tuning.
- Press and hold one of [DIRECT] buttons for 2 seconds or longer to store the current station into preset memory.

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TV Operations

Auto store

Auto store selects 6 TV stations automatically and stores each one into preset memory.

If there are not 6 stations with good reception, stations previously stored in memory remain and only the strong stations are stored into memory.

- 1. Press the [**BAND**] button and select the desired TV band (TV1 or TV2).
- Press and hold the [P/A] button for 2 seconds or longer. The stations with good reception are stored automatically to the preset channels.

Preset scan

Preset scan allows the user to view each preset position before it automatically advances to the next preset. This function is useful for searching for a desired TV station in memory.

- 1. Press the [P/A] button.
- When the desired station is found, press the [P/A] button again to remain tuned to that station.

Note:

 Do not press and hold the [P/A] button for 2 seconds or longer. Doing so will trigger the auto store function and start storing stations into memory.

Setting the TV diversity (TV DIVER)

This function automatically switches to reception by a good-reception antenna during reception of TV broadcasts (when a TV tuner is connected).

- * The factory default setting is "ON". Set again to "OFF" when the TV diversity antenna is not in use.
- 1. Press the [ADJ] button.
- Press the [◄] or [►] button to select "TV DIVER".
- Press the [▲] or [▼] button to select "ON" or "OFF".
- 4. Press the [**ADJ**] button to return to the previous mode.

8. IN CASE OF DIFFICULTY

	Problem	Cause	Measure		
	Power does not turn on. (No sound is pro- duced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.		
	duceu.)	Incorrect wiring.	Consult your store of purchase.		
General	No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive current is required for remote controlling on the amplifiers or power antenna.	Turn the unit off. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. Turn the unit back on. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required).		
	Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Press the reset button for about 2 seconds with a thin rod. Reset button		
	Compact disc cannot be loaded.	Another compact disc is already loaded.	Eject the compact disc before loading the new one.		
	Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.		
		Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.		
CD	Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.		
	The CD is automatically ejected.	A CD is loaded upside- down inside the CD deck and does not play.	Eject the disc then reload it properly.		

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English

9. ERROR DISPLAYS

If an error occurs, one of the following displays is displayed. Take the measures described below to eliminate the problem.

	Error Display	Cause	Measure
СD	ERROR 2	A CD is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism. Consult your store of purchase.
0	ERROR 3	A CD cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
jer	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism. Consult your store of purchase.
) changer	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
CD	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
	ERROR 2	A DISC inside the DVD changer cannot be played.	This is a failure of DVD mechanism. Consult your store of purchase.
changer	ERROR 3	A DISC cannot be played due to scratches, etc.	Retry or replace with a non-scratched, non-warped-disc.
DVD cha	ERROR 6	A DISC inside the DVD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly
٥	ERROR P	Parental level error	Set the correct Parental level.
	ERROR R	Region code error	Eject the disc and replace correct region code disc.

If an error display other than the ones described above appears, press the reset button. If the problem persists, turn off the power and consult your store of purchase.

10. SPECIFICATIONS

FM Tuner

Frequency Range: 87.9 MHz to 107.9 MHz

Usable Sensitivity:

9 dBf

50dB Quieting Sensitivity:

15 dBf

Alternate Channel Selectivity:

70 dB

Stereo Separation (1 kHz):

35 dB

Frequency Response (±3 dB): 30 Hz to 15 kHz

AM Tuner

Frequency Range: 530 kHz to 1710 kHz Usable Sensitivity: 25 μV

CD Plaver

System:

Compact disc digital audio system

Usable Discs: Compact disc

Frequency Response (±1 dB): 5 Hz to 20 kHz

Signal to Noise Ratio (1 kHz): 112 dB

Dynamic Range (1 kHz): 100 dB

Harmonic Distortion: 0.003% (20Hz to 20kHz)

Audio

Bass Control Action (50 Hz):

±12 dB

Treble Control Action (10 kHz):

±12 dB

Line Output Level (CD 1 kHz):

Vol 0dB = 4V

Vol + 6dB = 8V (Max)

DSP/DAC

- A/D conversion: 24-bit 64x oversampling $\Delta\Sigma$ A/D converter
- D/A conversion: 96 kHz/24-bit advanced. seament D/A converter
- 8x oversampling digital filter: Blocked band attenuation: -130 dB Transmitted band attenuation: ±0.00001 dB
- Sampling rate converter: Input sampling rate (fs32k, fs44.1k, fs48k, fs96k)

Output sampling rate (fs48k, fs96k)

• DSP: 24-bit audio DSP. 34-bit arithmetic operation (overflow margin 4-bit) MULTI mode: 4WAY, X-OVER/ HIGH-HPF 315 Hz to 20 kHz/ MID-LPF 250 Hz to 20 kHz. THROUGH/ MID-HPF THROUGH, 200 Hz to 20 kHz/ LOW-LPF 250 Hz to 10 kHz. THROUGH/ LOW-HPF THROUGH, 25 Hz to 250 Hz/ SUB-W-LPF 25 Hz to 250 Hz, THROUGH/ SUB-W-HPF THROUGH, 16 Hz to 80 Hz Each fc1/3 oct step SLOPE -6/-12/-18 dB

GAIN 0 to -24 dB

: 5BAND-P.EQ/BAND 1/2/3 50 Hz to 20 kHz BAND4/5 630 Hz to 20 kHz

Each fc1/3 oct step GAIN ±12 dB Q0.5 to 12

: Time alignment/0 to 512.4 cm 0.7 cm steps

: Tone control/BASS 50 Hz ±12 dB TREBLE 10 kHz ±12 dB

* When BASS/TREB is selected

STANDARD mode: FRONT-2WAY

HIGH-HPF 315 Hz to 20 kHz/

FRONT-LPF 250 Hz to 20 kHz. THROUGH/ REAR-HPF THROUGH, 25 Hz to 250 Hz/ SUB-W-LPF 25 Hz to 250 Hz. THROUGH/ SUB-W-HPF THROUGH, 16 Hz to 80 Hz

Each fc1/3 oct step SLOPE -6/-12/-18 dB GAIN 0 to -24 dB

5BAND-P.EQ/time alignment/tone control

DIRECT mode: FRONT+REAR+NON-FADER

General

Power Supply Voltage: 14.4 V DC (10.8 to 15.6 V allowable), negative ground

Current Consumption:

Less than 5 A

Weight / Source unit: 3.96 lb. (1.8 kg)

Weight / DC-DC Converter:

1.541 lb. (700 g)

Weight / Remote control unit: 1.76 oz. (50 g) (including battery)

Dimensions / Source unit:

7" (Width) \times 2" (Height) \times 6-1/8" (Depth) $[178 \text{ (W)} \times 50 \text{ (H)} \times 155 \text{ (D)} \text{ mm}]$

Dimensions / DC-DC Converter: 6-7/10" (Width) × 1-5/8" (Height) × 3-7/8" (Depth) $[163 (W) \times 42 (H) \times 98 (D) mm]$

Dimensions / Remote control unit: 1-3/4" (Width) $\times 4-5/16$ " (Height) $\times 1-1/8$ " (Depth) $[52 \text{ (W)} \times 125 \text{ (H)} \times 12 \text{ (D)} \text{ mm}]$

Specifications and design are subject to change without notice for further improvement.

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APPENDIX: TIME ALIGNMENT LIST

The list below shows values obtained by calculating the 1STEP delay with 1STEP distance set to 0.715625cm and rounding the resulting figures to the nearest whole number.

English

T=20°C v =343.5[m/s] :.1cm=0.029112082[msec] :.1STEP distance=0.715625[cm]

STEP	Distance	Time	STEP	Distance	Time	STEP	Distance	Time	STEP	Distance	Time	STEP	Distance	Time
0121	[cm]	[msec]	O.L.	[cm]	[msec]	3121	[cm]	[msec]	0.2.	[cm]	[msec]	0.5	[cm]	[msec]
0	0.0	0.00	66	47.2	1.38	132	94.5	2.75	198	141.7	4.13	264	188.9	5.50
2	0.7 1.4	0.02	67 68	47.9 48.7	1.40 1.42	133 134	95.2 95.9	2.77	199 200	142.4 143.1	4.15 4.17	265 266	189.6 190.4	5.52 5.54
3	2.1	0.06	69	49.4	1.44	135	96.6	2.81	201	143.8	4.19	267	191.1	5.56
4	2.9	0.08	70	50.1	1.46	136	97.3	2.83	202	144.6	4.21	268	191.8	5.58
5 6	3.6 4.3	0.10 0.13	71 72	50.8 51.5	1.48 1.50	137 138	98.0 98.8	2.85 2.88	203	145.3 146.0	4.23 4.25	269 270	192.5 193.2	5.60 5.63
7	5.0	0.15	73	52.2	1.52	139	99.5	2.90	205	146.7	4.27	271	193.2	5.65
8	5.7	0.17	74	53.0	1.54	140	100.2	2.92	206	147.4	4.29	272	194.7	5.67
9	6.4	0.19	75	53.7	1.56	141	100.9	2.94	207	148.1	4.31	273	195.4	5.69
10 11	7.2 7.9	0.21	76 77	54.4 55.1	1.58 1.60	142 143	101.6	2.96 2.98	208 209	148.9 149.6	4.33 4.35	274 275	196.1 196.8	5.71 5.73
12	8.6	0.25	78	55.8	1.63	144	103.1	3.00	210	150.3	4.38	276	197.5	5.75
13	9.3	0.27	79	56.5	1.65	145	103.8	3.02	211	151.0	4.40	277	198.2	5.77
14	10.0	0.29	80	57.3	1.67	146	104.5	3.04	212	151.7	4.42	278	198.9	5.79
15 16	10.7 11.5	0.31	81 82	58.0 58.7	1.69 1.71	147 148	105.2 105.9	3.06 3.08	213 214	152.4 153.1	4.44 4.46	279 280	199.7 200.4	5.81 5.83
17	12.2	0.35	83	59.4	1.73	149	106.6	3.10	215	153.9	4.48	281	201.1	5.85
18	12.9	0.38	84	60.1	1.75	150	107.3	3.13	216	154.6	4.50	282	201.8	5.88
19	13.6	0.40	85	60.8	1.77	151	108.1	3.15	217	155.3	4.52	283	202.5	5.90
20 21	14.3 15.0	0.42 0.44	86 87	61.5 62.3	1.79 1.81	152 153	108.8	3.17 3.19	218 219	156.0 156.7	4.54 4.56	284 285	203.2	5.92 5.94
22	15.7	0.46	88	63.0	1.83	154	110.2	3.21	220	157.4	4.58	286	204.7	5.96
23	16.5	0.48	89	63.7	1.85	155	110.9	3.23	221	158.2	4.60	287	205.4	5.98
24	17.2	0.50	90	64.4	1.88	156	111.6	3.25	222	158.9	4.63	288	206.1	6.00
25 26	17.9 18.6	0.52 0.54	91 92	65.1 65.8	1.90 1.92	157 158	112.4 113.1	3.27	223 224	159.6 160.3	4.65 4.67	289 290	206.8	6.02
27	19.3	0.56	93	66.6	1.94	159	113.8	3.31	225	161.0	4.69	291	208.2	6.06
28	20.0	0.58	94	67.3	1.96	160	114.5	3.33	226	161.7	4.71	292	209.0	6.08
29	20.8	0.60	95	68.0	1.98	161	115.2	3.35	227	162.4	4.73	293	209.7	6.10
30 31	21.5	0.63 0.65	96 97	68.7 69.4	2.00	162 163	115.9 116.6	3.38 3.40	228 229	163.2 163.9	4.75 4.77	294 295	210.4	6.13 6.15
32	22.9	0.67	98	70.1	2.04	164	117.4	3.42	230	164.6	4.79	296	211.8	6.17
33	23.6	0.69	99	70.8	2.06	165	118.1	3.44	231	165.3	4.81	297	212.5	6.19
34	24.3	0.71	100	71.6	2.08	166	118.8	3.46	232	166.0	4.83	298	213.3	6.21
35 36	25.0 25.8	0.73 0.75	101	72.3 73.0	2.10	167 168	119.5 120.2	3.48 3.50	233	166.7 167.5	4.85 4.88	299 300	214.0 214.7	6.23 6.25
37	26.5	0.77	103	73.7	2.15	169	120.2	3.52	235	168.2	4.90	301	215.4	6.27
38	27.2	0.79	104	74.4	2.17	170	121.7	3.54	236	168.9	4.92	302	216.1	6.29
39	27.9	0.81	105	75.1	2.19	171	122.4	3.56	237	169.6	4.94	303	216.8	6.31
40 41	28.6 29.3	0.83	106 107	75.9 76.6	2.21	172 173	123.1 123.8	3.58 3.60	238 239	170.3 171.0	4.96 4.98	304 305	217.6 218.3	6.33 6.35
42	30.1	0.88	108	77.3	2.25	174	124.5	3.63	240	171.8	5.00	306	219.0	6.38
43	30.8	0.90	109	78.0	2.27	175	125.2	3.65	241	172.5	5.02	307	219.7	6.40
44	31.5	0.92	110	78.7	2.29	176	126.0	3.67	242	173.2	5.04	308	220.4	6.42
45 46	32.2 32.9	0.94 0.96	111 112	79.4 80.2	2.31	177 178	126.7 127.4	3.69 3.71	243 244	173.9 174.6	5.06 5.08	309 310	221.1 221.8	6.44 6.46
47	33.6	0.98	113	80.9	2.35	179	128.1	3.73	245	175.3	5.10	311	222.6	6.48
48	34.4	1.00	114	81.6	2.38	180	128.8	3.75	246	176.0	5.13	312	223.3	6.50
49	35.1	1.02	115	82.3	2.40	181	129.5	3.77	247	176.8	5.15	313	224.0	6.52
50 51	35.8 36.5	1.04	116 117	83.0 83.7	2.42	182 183	130.2	3.79 3.81	248 249	177.5 178.2	5.17 5.19	314 315	224.7 225.4	6.54 6.56
52	37.2	1.08	118	84.4	2.46	184	131.7	3.83	250	178.9	5.21	316	226.1	6.58
53	37.9	1.10	119	85.2	2.48	185	132.4	3.85	251	179.6	5.23	317	226.9	6.60
54	38.6	1.13	120 121	85.9	2.50	186	133.1	3.88	252 253	180.3	5.25 5.27	318	227.6	6.63
55 56	39.4 40.1	1.15 1.17	121	86.6 87.3	2.52 2.54	187 188	133.8 134.5	3.90 3.92	253	181.1 181.8	5.27	319 320	229.0	6.65 6.67
57	40.8	1.19	123	88.0	2.56	189	135.3	3.94	255	182.5	5.31	321	229.7	6.69
58	41.5	1.21	124	88.7	2.58	190	136.0	3.96	256	183.2	5.33	322	230.4	6.71
59	42.2	1.23	125	89.5	2.60	191	136.7	3.98	257	183.9	5.35	323	231.1	6.73
60 61	42.9 43.7	1.25 1.27	126 127	90.2	2.63 2.65	192 193	137.4 138.1	4.00 4.02	258 259	184.6 185.3	5.38 5.40	324 325	231.9 232.6	6.75 6.77
62	44.4	1.29	128	91.6	2.67	194	138.8	4.04	260	186.1	5.42	326	233.3	6.79
63	45.1	1.31	129	92.3	2.69	195	139.5	4.06	261	186.8	5.44	327	234.0	6.81
64	45.8	1.33	130	93.0	2.71	196	140.3	4.08	262	187.5	5.46	328	234.7	6.83
65	46.5	1.35	131	93.7	2.73	197	141.0	4.10	263	188.2	5.48	329	235.4	6.85

STEP	Distance [cm]	Time [msec]												
330	236.2	6.88	410	293.4	8.54	490	350.7	10.21	570	407.9	11.88	650	465.2	13.54
331	236.9	6.90	411	294.1	8.56	491	351.4	10.23	571	408.6	11.90	651	465.9	13.56
332 333	237.6	6.92	412	294.8	8.58	492	352.1	10.25 10.27	572	409.3	11.92	652 653	466.6	13.58 13.60
333	238.3	6.94	413	295.6	8.60	493	352.8	10.27	573	410.1	11.94	653	467.3	
334	239.0	6.96	414	296.3	8.63	494	353.5	10.29	574	410.8	11.96	654	468.0	13.63
335	239.7	6.98	415	297.0	8.65	495	354.2	10.31	575	411.5	11.98	655	468.7	13.65
336 337	240.5 241.2	7.00 7.02	416 417	297.7 298.4	8.67	496 497	355.0 355.7	10.33 10.35	576 577	412.2 412.9	12.00 12.02	656 657	469.5 470.2	13.67 13.69
338	241.2	7.02	417	299.1	8.69 8.71	498	356.4	10.33	578	413.6	12.04	658	470.2	13.71
339	242.6	7.06	419	299.8	8.73	499	357.1	10.40	579	414.3	12.06	659	471.6	13.73
340	243.3	7.08	420	300.6	8.75	500	357.8	10.42	580	415.1	12.08	660	472.3	13.75
341	244.0	7.10	421	301.3	8.77	501	358.5	10.44	581	415.8	12.10	661	473.0	13.77
342	244.7	7.13	422	302.0	8.79	502	359.2	10.46	582	416.5	12.13	662	473.7	13.79
343	245.5	7.15	423	302.7	8.81	503	360.0	10.48	583	417.2	12.15	663	474.5	13.81
344	246.2	7.17 7.19	424	303.4	8.83	504	360.7	10.50	584	417.9	12.17	664	475.2	13.83
345	246.9	7.19	425	304.1	8.85	505	361.4	10.52	585	418.6	12.19	665	475.9	13.85
346 347	247.6	7.21 7.23	426 427	304.9	8.88	506	362.1	10.54	586	419.4	12.21 12.23	666	476.6	13.88
348	248.3 249.0	7.25	428	305.6	8.90 8.92	507 508	362.8 363.5	10.56 10.58	587 588	420.1 420.8	12.23	667 668	477.3 478.0	13.90 13.92
349	249.0	7.27	429	306.3	8.94	509	364.3	10.56	589	421.5	12.25 12.27	669	478.8	13.94
350	250.5	7.29	430	307.7	8.96	510	365.0	10.63	590	422.2	12.29	670	479.5	13.96
351	251.2	7.31	431	308.4	8.98	511	365.7	10.65	591	422.9	12.31	671	480.2	13.98
352	251.9	7.33	432	309.2	9.00	512	366.4	10.67	592	423.7	12.33	672	480.9	14.00
353	252.6	7.35	433	309.9	9.02	513	367.1	10.69	593	424.4	12.35	673	481.6	14.02
354	253.3	7.38	434	310.6	9.04	514	367.8	10.71	594	425.1	12.38	674	482.3	14.04
354 355	253.3 254.0	7.40	435	311.3	9.06	515	368.5	10.73	595	425.1 425.8	12.38 12.40	675	483.0	14.06
356	254.8	7.42	436	312.0	9.08	516	369.3	10.75	596	426.5	12.42	676	483.8	14.08
357	255.5	7.44	437	312.7	9.10	517	370.0	10.77	597	427.2	12.44	677	484.5	14.10
358	256.2	7.46	438	313.4	9.13	518	370.7	10.79	598	427.9	12.46	678	485.2	14.13
359	256.9	7.48	439	314.2	9.15	519	371.4	10.81	599	428.7	12.48	679	485.9	14.15
360	257.6	7.50	440 441	314.9	9.17	520	372.1	10.83	600	429.4	12.50 12.52	680	486.6	14.17
361 362	258.3 259.1	7.52 7.54	441	315.6 316.3	9.19 9.21	521 522	372.8 373.6	10.85 10.88	601 602	430.1 430.8	12.54	681 682	487.3 488.1	14.19 14.21
363	259.8	7.56	443	317.0	9.23	523	374.3	10.88	603	431.5	12.56	683	488.8	14.23
364	260.5	7.58	444	317.7	9.25	524	375.0	10.92	604	432.2	12.58	684	489.5	14.25
365	261.2	7.60	445	318.5	9.27	525	375.7	10.94	605	433.0	12.60	685	490.2	14.27
365 366	261.9	7.63	446	319.2	9.27 9.29	525 526	375.7 376.4	10.96	606	433.7	12.60 12.63	686	490.9	14.29
367	262.6	7.65	447	319.9	9.31	527	377.1	10.98	607	434.4	12.65	687	491.6	14.31
368	263.4	7.67	448	320.6	9.33	528	377.9	11.00	608	435.1	12.67 12.69	688	492.4	14.33
369	264.1	7.69	449	321.3	9.35	529	378.6	11.02	609	435.8	12.69	689	493.1	14.35
370	264.8	7.71	450	322.0	9.38	530	379.3	11.04	610	436.5	12.71	690	493.8	14.38
371	265.5	7.73	451	322.7	9.40 9.42	531	380.0	11.06	611	437.2	12.73	691	494.5	14.40
372 373	266.2 266.9	7.75 7.77	452 453	323.5 324.2	9.42	532 533	380.7 381.4	11.08 11.10	612 613	438.0 438.7	12.75 12.77	692 693	495.2 495.9	14.42 14.44
374	267.6	7.79	454	324.2	9.46	534	382.1	11.13	614	439.4	12.79	694	496.6	14.46
375	268.4	7.81	455	325.6	9.48	535	382.9	11.15	615	440.1	12.81	695	497.4	14.48
376	269.1	7.83	456	326.3	9.50	536	383.6	11.17	616	440.8	12.83	696	498.1	14.50
377	269.8	7.85	457	327.0	9.52	537	384.3	11.19	617	441.5	12.85	697	498.8	14.52
378	270.5	7.88	458	327.8	9.54	538	385.0	11.21	618	442.3	12.88	698	499.5	14.54
379	271.2	7.90	459	328.5	9.56	539	385.7	11.23 11.25	619	443.0	12.90	699	500.2	14.56
380	271.9	7.92	460	329.2	9.58	540	386.4	11.25	620	443.7	12.92	700	500.9	14.58
381 382	272.7 273.4	7.94 7.96	461 462	329.9 330.6	9.60	541 542	387.2 387.9	11.27 11.29	621 622	444.4 445.1	12.94 12.96	701 702	501.7 502.4	14.60
	273.4	7.96	463	330.6	9.63 9.65	542	387.9	11.31	623	445.1	12.98	702	502.4	14.63 14.65
383 384	274.1	8.00	464	332.1	9.65	544	389.3	11.33	624	445.8	13.00	703	503.1	14.65
385	275.5	8.02	465	332.8	9.69	545	390.0	11.35	625	447.3	13.02	705	504.5	14.69
386	276.2	8.04	466	333.5	9.71	546	390.7	11.38	626	448.0	13.04	706	505.2	14.71
387	276.9	8.06	467	334.2	9.73	547	391.4	11.40	627	448.7	13.06	707	505.9	14.73
388	277.7	8.08	468	334.9	9.75	548	392.2	11.42	628	449.4	13.08	708	506.7	14.75
389	278.4	8.10	469	335.6	9.77	549	392.9	11.44	629	450.1	13.10	709	507.4	14.77
390	279.1	8.13	470	336.3	9.79	550	393.6	11.46	630	450.8	13.13	710	508.1	14.79
391	279.8	8.15	471	337.1	9.81	551	394.3	11.48	631	451.6	13.15	711	508.8	14.81
392	280.5	8.17	472	337.8	9.83	552	395.0	11.50	632	452.3	13.17	712	509.5	14.83
393	281.2	8.19	473 474	338.5	9.85	553	395.7	11.52	633	453.0	13.19	713	510.2	14.85
394 395	282.0 282.7	8.21 8.23	474	339.2 339.9	9.88 9.90	554 555	396.5 397.2	11.54	634 635	453.7 454.4	13.21 13.23	714 715	511.0 511.7	14.88 14.90
396	283.4	8.25	476	340.6	9.92	556	397.9	11.56	636	455.1	13.25	716	512.4	
397	284.1	8.27	477	341.4	9.94	557	398.6	11.60	637	455.9	13.27	7.10	012.7	17.02
398	284.8	8.29	478	342.1	9.96	558	399.3	11.63	638	456.6	13.29			
399	285.5	8.31	479	342.8	9.98	559	400.0	11.65	639	457.3	13.31			
400	286.3	8.33	480	343.5	10.00	560	400.8	11.67	640	458.0	13.33			
401	287.0	8.35	481	344.2	10.02	561	401.5	11.69	641	458.7	13.35			
402	287.7	8.38	482	344.9	10.04	562	402.2	11.71	642	459.4	13.38			
403	288.4	8.40	483	345.6	10.06	563	402.9	11.73	643	460.1	13.40			
404	289.1	8.42	484	346.4	10.08	564	403.6	11.75	644	460.9	13.42			
405	289.8	8.44	485	347.1	10.10	565	404.3	11.77	645	461.6	13.44			
406	290.5	8.46	486	347.8	10.13 10.15	566	405.0	11.79	646	462.3	13.46			
407 408	291.3 292.0	8.48 8.50	487 488	348.5 349.2	10.15	567 568	405.8 406.5	11.81 11.83	647 648	463.0 463.7	13.48 13.50			
408	292.0	8.52	489	349.2	10.17	568 569	406.5	11.85	649	464.4	13.50			
-700	202.1	0.02	703	0.70.0	10.10	303	101.2	11.00	070		10.02	ı		

707 505.9 14.73 708 506.7 14.75 709 507.4 14.77 710 508.1 14.79 711 508.8 14.81 712 509.5 14.83 713 510.2 14.85 714 511.0 14.88 715 511.7 14.90 716 512.4 14.92 DRZ9255 DRZ9255

MEMO: SOUND SETUP MEMO IVIEMO : Sometimes of the standard Mode

				MEMORY1	MEMORY2	MEMORY3	
			Filter frequency(fc)				Hz
	======================================	HPF	Slope				dB/oct
	FRONT-HIGH		Gain				dB
			Phase	NOR/REV	NOR/REV	NOR/REV	
			Filter frequency(fc)				Hz
		LPF	Slope				dB/oct
	FRONT-LOW		Gain				dB
l œ l			Phase	NOR/REV	NOR/REV	NOR/REV	
FILTER			Filter frequency(fc)				Hz
I≓I	REAR	HPF	Slope				dB/oct
	IILAII		Gain				dB
			Phase	NOR/REV	NOR/REV	NOR/REV	
			Filter frequency(fc)				Hz
		LPF	Slope				dB/oct
	SUB-W		Filter frequency(fc)				Hz
		HPF	Slope				dB/oct
		Gain					dB
	Phase			NOR/REV	NOR/REV	NOR/REV	

			MEMORY1	MEMORY2	MEMORY3	
		Lch				cm
	FRONT-HIGH	Rch				cm
	FRONT-LOW	Lch				cm
TIME Alignment		Rch				cm
Time Angilinent		Lch				cm
	REAR	Rch				cm
		Lch				cm
	SUB-W	Rch				cm

				MEMORY1	MEMORY2	MEMORY3	
			Center frequency(fo)				Hz
		BAND1	Gain				dB
			Q				
			Center frequency(fo)				Hz
		BAND2	Gain				dB
			Q				
			Center frequency(fo)				Hz
	LEFT	BAND3	Gain				dB
			Q				
			Center frequency(fo)				Hz
P.EQ		BAND4	Gain				dB
<u></u>			Q				
			Center frequency(fo)				Hz
		BAND5	Gain				dB
			Q				
			Center frequency(fo)				Hz
		BAND1	Gain				dB
			Q				
			Center frequency(fo)				Hz
		BAND2	Gain				dB
			Q				
			Center frequency(fo)				Hz
	RIGHT	BAND3	Gain				dB
			Q				
			Center frequency(fo)				Hz
		BAND4	Gain				dB
	1 '		Q				
			Center frequency(fo)				Hz
		BAND5	Gain				dB
			Q				

Multi Mode

				MEMORY1	MEMORY2	MEMORY3	
	HIGH		Filter frequency(fc)				Hz
		HPF	Slope				dB/oct
		Gain					dB
		Phase		NOR/REV	NOR/REV	NOR/REV	
	MID		Filter frequency(fc)				Hz
		LPF	Slope				dB/oct
			Filter frequency(fc)				Hz
		HPF	Slope				dB/oct
			Gain				dB
		Phase		NOR/REV	NOR/REV	NOR/REV	
ا م ا	LOW	LPF	Filter frequency(fc)				Hz
I⊎			Slope				dB/oct
x-over		HPF	Filter frequency(fc)				Hz
×			Slope				dB/oct
		Gain					dB
			Phase	NOR/REV	NOR/REV	NOR/REV	
	SUB-W	LPF	Filter frequency(fc)				Hz
			Slope				dB/oct
		W HPF	Filter frequency(fc)				Hz
			Slope				dB/oct
		Gain					dB
			Phase	NOR/REV	NOR/REV	NOR/REV	

			MEMORY1	MEMORY2	MEMORY3	
	HIGH	Lch				cm
		Rch				cm
	MID	Lch				cm
TIME Alignment		Rch				cm
Tiwic Angilinent		Lch				cm
	LOW	Rch				cm
	SUB-W	Lch				cm
		Rch				cm

				MEMORY1	MEMORY2	MEMORY3	
	LEFT		Center frequency(fo)				Hz
		BAND1	Gain				dB
			Q				
		BAND2	Center frequency(fo)				Hz
			Gain				dB
			Q				
		BAND3	Center frequency(fo)				Hz
			Gain				dB
			Q				
		BAND4	Center frequency(fo)				Hz
P.EQ			Gain				dB
₫.			Q				
		BAND5	Center frequency(fo)				Hz
			Gain				dB
			Q				
	RIGHT	BAND1	Center frequency(fo)				Hz
			Gain				dB
			Q				
		BAND2	Center frequency(fo)				Hz
			Gain				dB
			Q				
		BAND3	Center frequency(fo)				Hz
			Gain				dB
			Q				
		BAND4	Center frequency(fo)				Hz
			Gain				dB
			Q				
		BAND5	Center frequency(fo)				Hz
			Gain				dB
			Q				