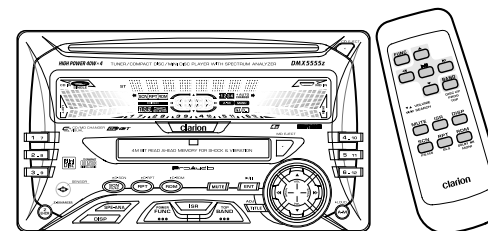# clarion®

Owner's manual
Mode d'emploi
Manual de instrucciones

DMX5555z

AM/FM CD/MD PLAYER WITH CD/MD CHANGER CONTROL

•

RADIO AM/FM-LECTEUR CD/MD AVEC PILOTAGE DE CHANGEUR CD/MD

•

RADIO DE AM/FM Y REPRODUCTOR DE CD/MD CON CONTROL DE CAMBIADOR DE CD/MD

Clarion Co., Ltd.

1999/3 (To·K)

PE-4018B
280-7323-00

Thank you for purchasing the **Clarion DMX5555z**.

∗ 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, MD changer and TV connected
  via the CeNET cable. The CD changer, MD changer and TV tuner have their own manuals, but no
  explanations for operating them are described.

Contents

1. FEATURES

- ■ 8-Times Oversampling Digital Filter and Dual 1-Bit D/A Converters
- ■ Zero-Bit Detector™ Mute Circuit
- ■ 4M Bit Read Ahead Memory (Approximately 10 Seconds) for Shock and Vibration
- ■ **MAGI-TUNE**® FM Reception System
- ■ Controller for Optional TV Tuner Modules
- ■ Capability to Read CD TEXT Data from Clarion Compatible CD Changer
- ■ Z-Enhancer with 3 Adjustment Modes
- ■ Repeat / Random Play / Intro Music Scan
- ■ CeNET with Balanced Audio Line Transmission and Dynamic Noise Canceling
- ■ Bass Control Center Frequency : 30Hz / Boost Level : ±15dB
- ■ 4V/4-Channel RCA Line Level Output with Fader Control
- ■ 160W(40W×4) Maximum Power Output

Functions of Remote Control Unit Buttons

Button \ Mode	Radio	CD	MD	CD changer MD changer	TV
23 FUNC	Turns power on and off. When pressed and held for 1 second: Turns power off. Switches among radio, CD, MD, CD changer, MD changer and TV.				
24 BAND DISC UP PROG TOP	Switches reception band.	Plays the first track. Top play.	Plays the first track. Top play.	Moves the next disc in increasing order.	Switches reception band.
VOLUME	Increases and decreases volume (in all modes).				
26 SEARCH	Moves preset channels up and down.	Moves tracks up and down. When pressed and held for 1 second: Fast-forward/ fast-backward.	Moves tracks up and down. When pressed and held for 1 second: Fast-forward/ fast-backward.	Moves tracks up and down. When pressed and held for 1 second: Fast-forward/ fast-backward.	Moves preset channels up and down.
27 PLAY/PAUSE	No function.	Switches between playback and pause.	Switches between playback and pause.	Switches between playback and pause.	No function.
28 MUTE	Turns mute on and off.				
29 ISR	Recalls ISR radio station in memory. Press and hold for 2 seconds or longer: Stores current station into ISR memory (radio mode only).				
30 DISP	Switches among main display, sub display and clock display.				
31 SCN PS/AS	Preset scan. When pressed and held for 2 seconds: Auto store.	Scan play.	Scan play.	Scan play. When pressed and held for 2 seconds: Disc scan play.	Preset scan. When pressed and held for 2 seconds: Auto store.
32 RPT BLS	No function.	Repeat play.	Repeat play.	Repeat play. When pressed and held for 1 seconds: Disc repeat play.	No function.
33 RDM DOLBY NR MONI	No function.	Random play.	Random play.	Random play. When pressed and held for 1 seconds: Disc random play.	Switches between TV and VTR.

∗ Some of the corresponding buttons on the source unit and remote control unit have different functions.
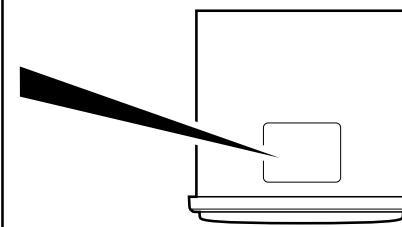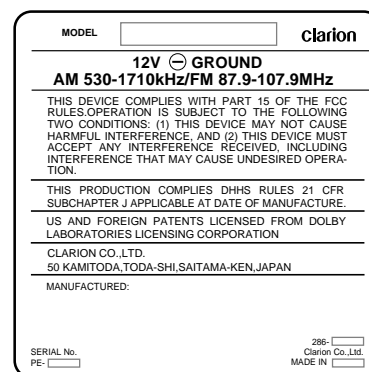
2. PRECAUTIONS

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 play-back may not be possible. If moisture forms on the disc, wipe it off with a soft cloth. If mois-ture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allow-ing normal operation.

This equipment has been tested and found to comply with the limits for a Class B digital de-vice, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a resi-dential installation.

This equipment generates, uses, and can radi-ate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio com-munications. However, there is no guarantee that interference will not occur in a particular instal-lation.

If this equipment does cause harmful interfer-ence 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.

2. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.

3. 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.

⚠ CAUTION

USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RE-SULT IN HAZARDOUS RADIATION EXPO-SURE.

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

CHANGES OR MODIFICATIONS NOT EX-PRESSLY APPROVED BY THE MANUFAC-TURER 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 MANU-FACTURER WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

MODEL   clarion
12V ⊖ GROUND
AM 530-1710kHz/FM 87.9-107.9MHz

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERA-TION.

THIS PRODUCTION COMPLIES DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.

US AND FOREIGN PATENTS LICENSED FROM DOLBY LABORATORIES LICENSING CORPORATION

CLARION CO.,LTD.
50 KAMITODA,TODA-SHI,SAITAMA-KEN,JAPAN

MANUFACTURED:

SERIAL No.   286-
PE-   Clarion Co.,Ltd.
                         MADE IN

Bottom View of Source Unit

Handling Compact Discs

Use only compact discs bearing the ◉ mark.

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

Handling

• 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 ball-point pen or the like to remove any rough-ness from the edge of the disc.
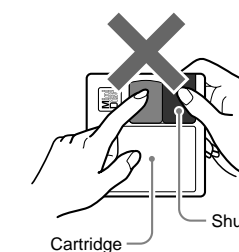
Ball-point pen
Roughness
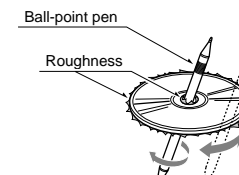
• Never stick labels on the surface of the com-pact disc or mark the surface with a pencil or pen.
• Never play a compact disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a compact disc, you may not be able to get it back out of the CD player or it 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 dam-age.

• 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 protec-tion 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 hu-midity 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.

Handling Mini Discs

Use only MDs bearing the ▥ mark.

Handling

• Never open the shutter on the MD cartridge.

Cartridge   Shutter

• Never play a minidisc with an index label that is peeling off.

If you try to play such a minidisc, you may not be able to get it back out of the MD player or it may damage the MD player.

Storage

• Do not expose minidiscs to direct sunlight or any heat source.
• Do not expose minidiscs to excess humidity or dust.
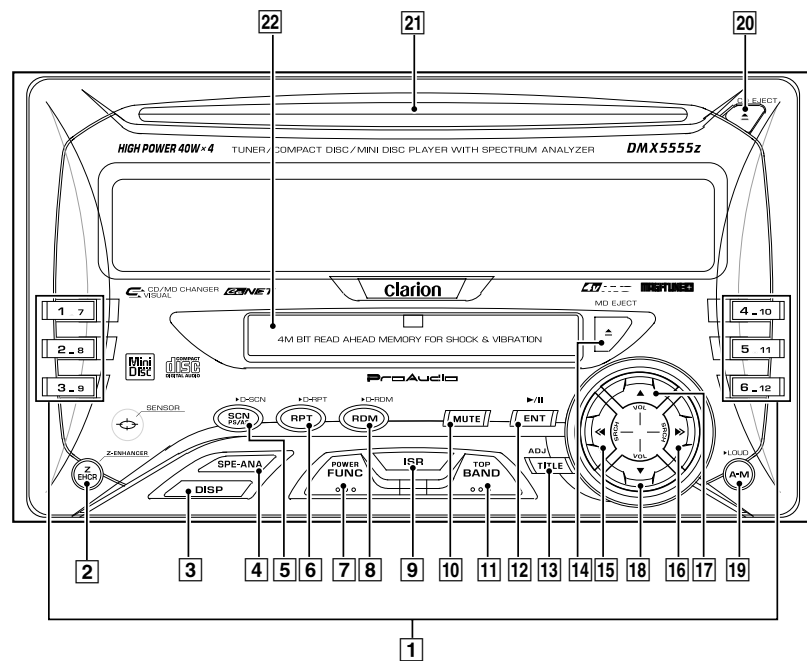• Do not expose minidiscs to direct heat from heaters.

Cleaning

• If the MD cartridge is dirty, wipe off the dirt with a soft dry cloth.
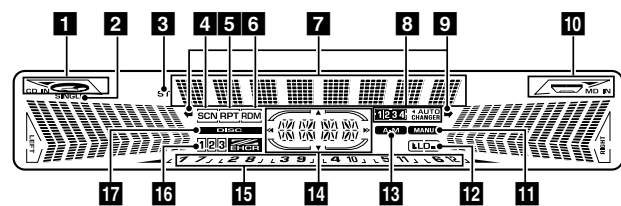
Be sure to unfold and read the next page.
Veuillez déplier et vous référer à la page suivante.
Cerciórese de desplegar y de leer la página siguiente. ▶

3. CONTROLS / LES COMMANDES / CONTROLES

Source unit / Appareil pilote / Unidad fuente

Display / Afficheur / Visualizador

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

4. NOMENCLATURE

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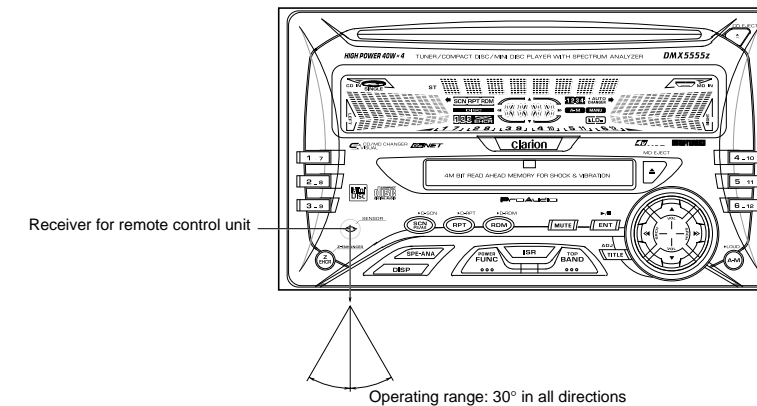• Be sure to read this chapter referring to the front diagrams of chapter "**3. CONTROLS**" on page 5 (unfold).

Names of Buttons

1 Preset buttons (1 to 6)
   Direct buttons (1 to 6) (7 to 12)
2 Z-EHCR (z-enhancer) button
3 DISP (display) button
4 SPE-ANA (spectrum analyzer) button
5 SCN (scan) button
   PS/AS (preset scan/auto store) button
6 RPT (repeat) button
7 POWER button
   FUNC (function) button
8 RDM (random) button
9 ISR (instant station recall) button
10 MUTE button
11 BAND (band) button
   TOP button

12 ENT (enter) button
   Play/pause button
13 TITLE button
   ADJ (adjust) button
14 MD EJECT button
15 Left button
16 Right button
17 Up button
18 Down button
19 A-M (audio mode) button
   LOUD (loudness) button
20 CD EJECT button
21 CD insertion slot
22 MD insertion slot

Display Items

1 CD IN indication
2 SINGLE indication
3 ST (stereo) indication
4 SCN (scan) indication
5 RPT (repeat) indication
6 RDM (random) indication
7 Operation status indication
   ∗ The frequency, play time, clock, etc. are displayed.
8 CD/MD changer indication
9 Title scroll indication
10 MD IN indication

11 MANU (manual) indication
12 LD (loudness) indication
13 A-M (audio mode) indication
14 Function mode indication
   ∗ The names of modes being selected, etc. are displayed.
15 Preset channel indication (1 to 6)
   Disc number indication (1 to 12)
   ∗ The disc numbers corresponding to the discs in the CD or MD changer light.
16 Z-EHCR (z-enhancer) indication
17 DISC indication

5. REMOTE CONTROL

Receiver for remote control unit

Operating range: 30° in all directions

Remote control unit

Signal transmitter
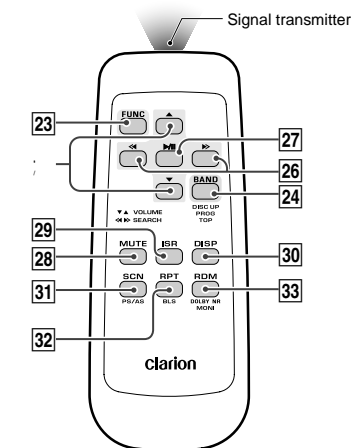
Inserting the Batteries

1. Turn the remote control unit over, then slide the rear cover in the direction of the arrow.
2. Insert the AA (UM-3/1.5V) batteries that came with the remote control unit facing in the directions shown in the figure, then close the rear cover.

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 water.
• Dispose of spent batteries properly.

AA (UM-3/1.5V) Batteries

Rear cover

Rear side
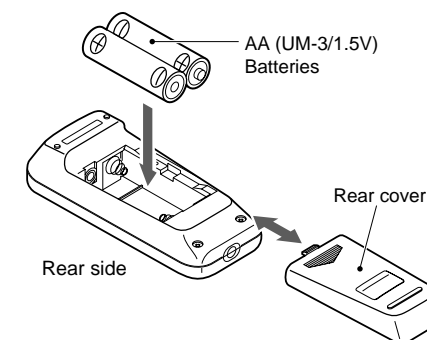
6. OPERATIONS

Basic Operations

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

⚠ CAUTION

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.

The clock is displayed when the ignition key is turned to the ACC (accessory) or IGN (ignition-on) position even when the unit power is off. In some cars, the clock may momentarily disappear when the ignition key is turned to the START position. The clock will reappear after the engine has started and the ignition key is released to the IGN (ignition-on) position.

Turning on/off the power

Notes:
* *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.*
* *System check*

  This unit checks what external equipment is connected to the CeNET. The first time the ACC/Ignition is turned on (initialization), "SYSTEM" and "Push PWR" alternately blink in the display. Press POWER button ⑦ to start the system check. When complete, press POWER button ⑦ again to activate the unit.

1. Press POWER button ⑦.

2. 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.

3. Press and hold POWER button ⑦ for 1 second or longer to turn off the power for the unit.

Selecting a mode

1. Press FUNC button ⑦ to change the mode of operation.

2. Each time you press FUNC button ⑦, the mode of operation changes in the following order:

Radio mode ➜ CD mode ➜ MD mode ➜ CD changer mode ➜ MD changer mode ➜ TV mode ➜ Radio mode...

∗ External equipment not connected with CeNET is not displayed.

Adjusting the volume

Press Up button ⑰ or Down button ⑱ increases or decreases the volume.

∗ The volume level is from 0 (minimum) to 33 (maximum).

Switching the display

Press DISP button ③ to select the desired display.
Each time you press DISP button ③, the display switches in the following order:

Main display

↓

Sub (title) display

↓

Clock display

↓

Main display...

Basic Operations

∗ 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.

∗ When you have entered a title in a CD, it appears in the sub display. If you have not entered a title, "**USER TTL**" appears in the title display instead. For information on how to enter a title, refer to the subsection "**Entering titles**" in the "**Other Handy Functions**".

∗ You can adjust the way of scrolling a title. For the details on it, refer to the subsection "**Adjusting the way of scrolling**" in the "**Other Handy Functions**".

Setting the Z-enhancer

This unit comes with 3 types of sound tone effects stored in memory. Select the one you prefer.

∗ The factory default setting is "**OFF**".

Each time you press Z-EHCR button [2], the tone effect changes in the following order:

"**Z-EHCR 1**" ➔ "**Z-EHCR 2**" ➔ "**Z-EHCR 3**" ➔ "**OFF**" ➔ "**Z-EHCR 1**"...

• Z-EHCR 1 : bass emphasized
• Z-EHCR 2 : treble emphasized
• Z-EHCR 3 : bass and treble emphasized
• OFF   : no sound effect

Adjusting the tone

Press A-M button [19] and select the item to adjust. Each time you press A-M button [19], the item changes in the following order:

● **When the Z-enhancer is off**

"**BASS**" ➔ "**TREB**" ➔ "**BAL**" ➔ "**FAD**" ➔ Function mode...

● **When Z-enhancer 1, 2 or 3 is set**

"**Z-EHCR**" ➔ "**BAL**" ➔ "**FAD**" ➔ Function mode...

Adjusting the bass

1. Press A-M button [19] and select "**BASS**".
2. Press Up button [17] to emphasize the bass, or press Down button [18] to attenuate the bass.
   ∗ The factory default setting is "**0**". (Adjustment range: −6 to +6)
3. When the adjustment is complete, press A-M button [19] several times until the function mode is reached.

Adjusting the treble

1. Press A-M button [19] and select "**TREB**".
2. Press Up button [17] to emphasize the treble, or press Down button [18] to attenuate the treble.
   ∗ The factory default setting is "**0**". (Adjustment range: −6 to +6)
3. When the adjustment is complete, press A-M button [19] several times until the function mode is reached.

Adjusting the balance

1. Press A-M button [19] and select "**BAL**".
2. Press Up button [17] to emphasize the sound from the right speaker, or press Down button [18] to emphasizes the sound from the left speaker.
   ∗ The factory default setting is "**0**". (Adjustment range: L13 to R13)
3. When the adjustment is complete, press A-M button [19] several times until the function mode is reached.

Adjusting the fader

1. Press A-M button [19] and select "**FAD**".
2. Press Up button [17] to emphasize the sound from the front speakers, or press Down button [18] to emphasize the sound from the rear speakers.
   ∗ The factory default setting is "**0**". (Adjustment range: F12 to R12)
3. When the adjustment is complete, press A-M button [19] several times until the function mode is reached.

Adjusting the Z-enhancer

1. Press Z-EHCR button [2] and select the Z-enhancer mode (1 to 3) to adjust.
2. Press A-M button [19] and select "**Z-EHCR**".
3. Press Up button [17] or Down button [18] to adjust Z-enhancer.
   ∗ When Z-enhancer 1 is selected, you can adjust the bass in the range of ±2.
   ∗ When Z-enhancer 2 is selected, you can adjust the treble in the range of ±2.
   ∗ When Z-enhancer 3 is selected, you can adjust the bass and treble in the range of ±2.
4. When the adjustment is complete, press A-M button [19] several times until the function mode is reached.

Basic Operations

Turning on/off the loudness

The loudness effect emphasizes the bass and treble to create a natural sound tone. When you are listening to music at a low volume, it is recommended to use the loudness effect.

1. Press and hold LOUD button [19] for 1 second or longer to turn on the loudness effect. When the loudness effect is turned on, "**LD**" lights in the display.
2. Press and hold LOUD button [19] for 1 second or longer to turn off the loudness effect. "**LD**" goes off in the display.

Radio Operations

FM reception

For enhanced FM performance the **MAGI-TUNE** ® tuner includes signal actuated stereo control and Multipath noise reduction circuits.

Changing the reception area

This unit is initially set to USA frequency intervals of 10kHz for AM and 200kHz for FM. When using it outside the USA, the frequency reception range can be switched to the intervals below.

● **Setting the reception area**

1. Press FUNC button [7] and select the radio mode (FM or AM).
2. While pressing RDM button [8], each time you press and hold the number "**1**" of the Preset buttons [1] for 2 seconds or longer, the reception area switches from inside the USA to outside the USA or from outside the USA to inside the USA.
   ∗ Any station preset memories are lost when the reception area is changed.

Listening to the radio

1. Press FUNC button [7] and select the radio mode.
2. Press BAND button [11] and select the radio band. Each time the button is pressed, the radio reception band changes in the following order:

   FM1 ➔ FM2 ➔ FM3 ➔ AM ➔ FM1...
3. Press Right button [16] or Left button [15] to tune in the desired station.

Tuning

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

Seek tuning

1. Press BAND button [11] and select the desired band (FM or AM).
   ∗ If "**MANU**" is lit in the display, press and hold BAND button [11] for 1 second or longer. "**MANU**" in the display goes off and seek tuning is now available.
2. Press Right button [16] or Left button [15] to automatically seek to the next station.
   When Right button [16] is pressed, the station is sought in the direction of higher frequencies; if Left button [15] is pressed, the station is sought in the direction of lower frequencies.

Radio Operations

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 quick tuning mode, you can quickly tune the desired frequency.

1. Press BAND button [11] and select the desired band (FM or AM).
   * If "**MANU**" is not lit in the display, press and hold BAND button [11] for 1 second or longer. "**MANU**" lights in the display and manual tuning is now available.
2. Tune into a station.

● **Quick tuning:**

Press and hold Right button [16] or Left button [15] for 1 second or longer to manually tune to the desired frequency.

● **Step tuning:**

Press Right button [16] or Left button [15] to manually tune one step at a time to the desired frequency.

Storing a preset station

A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exists to store individual radio stations in memory.

Manual memory

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

Auto store

Auto store selects up to 6 stations and automatically stores them into preset memory. If auto store cannot tune in all six stations, then it stores the strongest stations into memory and the other presets untouched.

1. Press BAND button [11] and select the desired band (FM or AM).
2. Press and hold AS button [5] for 2 seconds or longer. The stations with good reception are stored automatically to the preset buttons.

Recalling a preset station

Pressing the corresponding preset button recalls the stored radio frequency automatically.

1. Press BAND button [11] and select the desired band (FM1, FM2, FM3 or AM).
2. Press the corresponding Preset button [1] to recall the stored station.
   * Press and hold one of the Preset buttons [1] for 2 seconds or longer to store that station into preset memory.

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 PS button [5].
2. When a desired station is tuned in, press PS button [5] again to continue receiving that station.

Note:
• Be careful not to press and hold PS button [5] for 2 seconds or longer, otherwise the auto store function engages and the unit starts storing stations.

Instant station recall (ISR)

Instant station recall is a special radio preset that instantly accesses a favorite radio station at a touch of a button. The ISR function even operates with the unit in other modes.

● **ISR memory**

1. Select the station that you wish to store in ISR memory.
2. Press and hold ISR button [9] for 2 seconds or longer.

● **Recalling a station with ISR**

In any mode, press ISR button [9] to turn on the radio function and tune the selected radio station. "**ISR**" appears in the display. Press ISR button [9] again to return to the previous mode.

CD Operations

Loading a CD

Insert a CD into the center of the insertion slot with the label side facing up. The CD plays automatically after loading.

Notes:
• Never insert foreign objects into the CD insertion slot.
• When a CD is loaded in the unit, CD IN indication [1] lights in the display. Never try to insert another CD in this case.
• Discs not bearing the [logo] mark and CD-ROMs cannot be played by this unit.

Loading 3″ (8 cm) compact discs
* No adapter is required to play a 3″ CD.
* Insert the 3″ CD into the center of the insertion slot.
* When a 3″ CD is loaded, "**SINGLE**" lights in the display.

Listening to a CD already inserted

Press FUNC button [7] 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 Play/pause button [12] to pause play. "**PAUSE**" appears in the display.
2. To resume CD play, press Play/pause button [12] again.

Displaying CD titles

This unit can display title data for user titles input with this unit.

Press DISP button [3] to display the title.

Notes:
• Titles of CD-text CDs cannot be displayed with this unit.
• If the CD playing is a CD-text CD or no user title has been input, "**USER TTL**" appears in the display.

Ejecting a CD

Press CD EJECT button [20] to eject the CD. Take it out from the ejected position.

* If a 5″ CD (12 cm) is left in the ejected position for 15 seconds, the CD is automatically reloaded (Auto reload).
* 3″ CDs (8 cm) are not auto reloaded. Be sure to remove it when ejected.

Notes:
• **If you force a CD into before auto reloading, this can damage the CD.**
* The radio mode is selected automatically 4 seconds after CD EJECT button [20] is pressed.

Selecting a track

● **Track-up**

1. Press Right button [16] to move ahead to the beginning of the next track.
2. Each time you press Right button [16], the track advances ahead to the beginning of the next track.

● **Track-down**

1. Press Left button [15] to move back to the beginning of the current track.
2. Press Left button [15] twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● **Fast-forward**

Press and hold Right button [16] for 1 second or longer.

● **Fast-backward**

Press and hold Left button [15] for 1 second or longer.

Top function

The top function resets the CD player to the first track of the disc. Press TOP button [11] 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 canceled.

* The scan play is useful when you want to select a desired track.

1. Press SCN button [5] to start track scanning. "**SCN**" lights in the display.
2. To cancel the scan play, press SCN button [5] again. "**SCN**" goes off from the display and the current track continues to play.

MD Operations

Repeat play

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

1. Press RPT button 6. "**RPT**" lights in the display and the current track is repeated.
2. To cancel the repeat play, press RPT button 6 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 canceled.

1. Press RDM button 8. "**RDM**" lights in the display, an individual track is selected randomly and play begins.
2. To cancel the random play, press RDM button 8 again. "**RDM**" goes off from the display and normal play resumes.

Loading an MD

After confirming the orientation of an MD, insert the MD into the insertion slot.

Notes:
• *Never insert foreign objects into the MD insertion slot.*
• *When an MD is loaded in the unit, MD IN indication 10 lights in the display. Never try to insert another MD in this case.*
• *An MD that does not carry the [Mini Disc] mark cannot be used with this unit.*

Listening to an MD already inserted

Press FUNC button 7 to select the MD mode. Play starts automatically. If no MD is loaded in the unit, "**NO DISC**" appears in the display.

Pausing play

1. Press Play/pause button 12 to pause play. "**PAUSE**" appears in the display.
2. To resume MD play, press Play/pause button 12 again.

Switching between a disc title and a track title

On this unit, a disc title and a track title that have been previously entered can be displayed.

∗ Titles cannot be entered for MDs with this unit.
1. Press DISP button 3 to display the title.
2. Each time you press and hold DISP button 3 for 1 second or longer, the display toggles between the disc title and the track title.

Notes:
• *If an MD is not input its disc title or a track title, "D TITLE" or "T TITLE" appears in the display.*
∗ You can adjust the way of scrolling a title. For the details on it, refer to the subsection "**Adjusting the way of scrolling**" in the "**Other Handy Functions**".

Ejecting an MD

Press MD EJECT button 14 to eject an MD. Take it out from the ejected position.

∗ The radio mode is selected automatically 4 seconds after MD EJECT button 14 is pressed.

Selecting a track

● **Track-up**
1. Press Right button 16 to move ahead to the beginning of the next track.
2. Each time you press Right button 16, the track advances ahead to the beginning of the next track.

● **Track-down**
1. Press Left button 15 to move back to the beginning of the current track.
2. Press Left button 15 twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● **Fast-forward**
Press and hold Right button 16 for 1 second or longer.

● **Fast-backward**
Press and hold Left button 15 for 1 second or longer.

Top function

The top function resets the MD player to the first track of the disc. Press TOP button 11 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 canceled.

∗ The scan play is useful when you want to select a desired track.
1. Press SCN button 5 to start track scanning. "**SCN**" lights in the display.
2. To cancel the scan play, press SCN button 5 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 canceled.

1. Press RPT button 6. "**RPT**" lights in the display and the current track is repeated.
2. To cancel the repeat play, press RPT button 6 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 canceled.

1. Press RDM button 8. "**RDM**" lights in the display, an individual track is selected randomly and play begins.
2. To cancel the random play, press RDM button 8 again. "**RDM**" goes off and normal play resumes.

English

English

Setting the clock

1. Press and hold ADJ button 13 for 1 second or longer to switch to the adjustment selection display.
2. Press Right button 16 or Left button 15 to select "**CLOCK**".
3. Press ENT button 12.
4. Press Right button 16 or Left button 15 to select the hour or the minute.
5. Press Up button 17 or press Down button 18 to set the correct time.
   * The clock is displayed in 12-hour format.
6. Press ENT button 12 to store the time into memory.
7. Press ADJ button 13 to return to the previous mode.

Note:
* *You cannot set the clock when it is displayed with only the ignition on. If you drain or remove the car's battery or take out this unit, the clock is reset. While setting the clock, if another button or operation is selected, the clock set mode is canceled.*

Switching the spectrum analyzer display patterns

You can select one out of 4 patterns or set it to off.

* The factory default setting is "**PATTERN 1**".

Each time you press SPE-ANA button 4, the spectrum analyzer display pattern changes in the following order:

PATTERN 1 ➜ PATTERN 2 ➜ PATTERN 3 ➜ PATTERN 4 ➜ OFF ➜ PATTERN 1...

Note:
The spectrum analyzer display is unavailable during these operations below;
* *Seek tuning and auto store in radio mode.*
* *Mute or pause.*
* *When "**NO DISC**" or an error message appears in the display.*

Setting the sensitivity of the spectrum analyzer

* The factory default setting is "**MID**".
1. Press and hold ADJ button 13 for 1 second or longer to switch to the adjustment selection display.
2. Press Right button 16 or Left button 15 to select "**ANA SENS**".
3. Press Up button 17 or Down button 18 to set the sensitivity of the spectrum analyzer.

   You can choose one of "**LOW**", "**MID**" or "**HIGH**" for the sensitivity of the spectrum analyzer.

4. Press ADJ button 13 to return to the previous mode.

Setting the speed of the spectrum analyzer display

* The factory default setting is "**HIGH**".
1. Press and hold ADJ button 13 for 1 second or longer to switch to the adjustment selection display.
2. Press Right button 16 or Left button 15 to select "**ANA SPD**".
3. Press Up button 17 or Down button 18 to set the speed of the spectrum analyzer display.

   You can choose one of "**LOW**", "**MID**" or "**HIGH**" for the speed of the spectrum analyzer display.

4. Press ADJ button 13 to return to the previous mode.

Entering titles

Titles up to 10 characters long can be stored in memory and displayed for radio or TV stations and CDs. The numbers of titles that can be entered for each mode are as follows.

Mode	Number of titles
Radio mode	30 titles
CD mode	100 titles
TV mode	15 titles

CD changer mode	Number of titles
CDC655z connected	60 titles
CDC655Tz connected	100 titles
CDC1255z connected	50 titles

1. Press FUNC button 7 to select the mode you want to enter a title. (radio, CD, CD changer or TV)
   * Titles cannot be entered for MDs with this unit.
2. Select and play a CD or a CD in the CD changer, or tune to an appropriate TV or radio station.
3. Press DISP button 3 and display the title.
4. Press TITLE button 13. "**TITL**" appears in the display and the cursor position flashes.
5. Press Right button 16 or Left button 15 to move the cursor.
6. Press DISP button 3 to select a character. Each time you press DISP button 3, the character changes in the following order:

   Capital letters ➜ Small letters ➜ Numbers/ Symbols ➜ Capital letters...

7. Press Right button 16 or Left button 15 to select the desired character. Pressing Right button 16 moves the cursor to the next character; pressing Left button 15 moves the cursor to the previous character.
8. Repeat steps 5 to 7 to enter up to 10 characters for the title.
9. Press and hold ENT button 12 for 2 seconds or longer to store the title into memory and cancel title input mode.

Clearing titles

1. Play a CD or a CD in a CD changer, or tune a radio station or TV station that you want to clear the title for.
2. Press DISP button 3 and display the subtitle.
3. Press TITLE button 13. "**TITL**" appears in the display and the display switches to the title input display.
4. Press BAND button 11.
5. Press and hold ENT button 12 for 2 seconds or longer to clear the title and cancel the title input mode.

Adjusting the way of title scrolling

There are 3 ways for scrolling a title in the display. You can select the way you prefer.

* The factory default setting is "**AUTO**".
1. Press and hold ADJ button 13 for 1 second or longer to switch to the adjustment selection display.
2. Press Right button 16 or Left button 15 to select "**SCROLL**".
3. Press Up button 17 or Down button 18 to change the display. Each time Up button 17 or Down button 18 is pressed, the display changes among the 3 display methods available.

   AUTO:
   The title automatically scrolls over and over again.
   1-TIME:
   A title scrolls once. To have title scroll again, press TITLE button 13.
   MANUAL:
   You must press TITLE button 13 to scroll the display.

4. Press ADJ button 13 to return to the previous mode.

Adjusting the display contrast

You can adjust the display contrast according to the angle of installation of the unit.

* The factory default setting is "**LEVEL 6**". (Adjustment level: 1 to 11)
1. Press and hold ADJ button 13 for 1 second or longer to switch to the adjustment selection display.
2. Press Right button 16 or Left button 15 to select "**CONTRAST**".
3. Press Up button 17 or Down button 18 to adjust the contrast.
4. Press ADJ button 13 to return to the previous mode.

Message display

When the unit is powered on or off, a message is displayed. The user can turn this message display on or off.

* The factory default setting is "**ON**".
1. Press and hold ADJ button 13 for 1 second or longer to switch to the adjustment selection display.
2. Press Right button 16 or Left button 15 to select "**MESSAGE**".
3. Press Up button 17 to set the message display to "**ON**"; press Down button 18 to set the message display to "**OFF**".
4. Press ADJ button 13 to return to the previous mode.

Triggered audio mute for cellular telephones

This unit requires special wiring to mute the audio signal automatically when a cellular telephone rings in the car.

* This function is not compatible with all cellular telephones. Contact your local authorized Clarion dealer for information on proper installation and compatibility.

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 the CD changer functions. This unit can control a total of 2 changers (MD and/or CD).

Press FUNC button [7] and select the CD changer mode to start play. If 2 CD changers are connected, press FUNC button [7] to select the CD changer for play.

∗ If "**NO MAGA**" appears in the display, insert the magazine into the CD changer. "**CHECK**" appears in the display while the player loads (checks) the magazine.

∗ 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.

⚠ CAUTION

CD-ROM discs cannot be played in the CD changer.

Pausing play

1. Press Play/pause button [12] to pause play. "**PAUSE**" appears in the display.
2. To resume play, press Play/pause button [12] 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 CDC655z or CDC1255z**

Press DISP button [3] to display the title.

● **When connected to CDC655Tz**

1. Press DISP button [3] to display the title.
2. Each time you press and hold DISP button [3] for 1 second or longer, the title display changes in the following order:
   User title (disc) ➔ CD-text title (disc) ➔ CD-text title (track) ➔ user title (disc)...

Notes:
- If the CD playing is not a CD-text CD or no user title has been input, "**USER TTL**" appears in the display.
- If a CD-text CD is not input its disc title or a track title, "**TEXT D TTL**" or "**TEXT T TTL**" appears in the display.

Selecting a CD

Each of the Direct button [1] corresponds to a disc loaded into the magazine.

● **Selecting a disc from 1 to 6**

Press the corresponding Direct button [1] (1 to 6) to select the desired disc.

● **Selecting a disc from 7 to 12 (only when a 12 disc CD changer is used.)**

Press and hold the corresponding Direct button [1] (7 to 12) for 1 second or longer to select the desired disc.

∗ If a CD is not loaded in a slot of the magazine, pressing the Direct button [1] corresponding to its disc number is invalid.

Selecting a track

● **Track-up**

1. Press Right button [16] to move ahead to the beginning of the next track.
2. Each time you press Right button [16], the track advances ahead to the beginning of the next track.

● **Track-down**

1. Press Left button [15] to move back to the beginning of the current track.
2. Press Left button [15] twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● **Fast-forward**

Press and hold Right button [16] for 1 second or longer.

● **Fast-backward**

Press and hold Left button [15] for 1 second or longer.

Top function

The top function plays from the first track (track No. 1) of the disc.

● **When playing a disc 1 to 6**

Press the Direct button [1] (1 to 6) with the same number as the CD playing.

● **When playing a disc 7 to 12 (only when a 12 disc CD changer is used.)**

Press and hold for 1 second or longer the Direct button [1] (7 to 12) with the same number as the CD playing.

∗ If a CD is not loaded in a slot of the magazine, pressing the Direct button [1] corresponding to its disc number is invalid.

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 canceled.

∗ The scan play is useful when you want to select a desired track.

1. Press SCN button [5] to start track scanning. "**SCN**" lights in the display.
2. To cancel the scan play, press SCN button [5] again. "**SCN**" goes off from the display and the current track continues to play.

Disc scan play

The 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 canceled.

∗ The disc scan play is useful when you want to select a desired CD.

1. Press and hold SCN button [5] for 1 second or longer. DISC indication [17] and "**SCN**" light in the display and the disc scan play starts.
2. To cancel the disc scan play, press SCN button [5] again. DISC indication [17] and "**SCN**" go 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 canceled.

1. Press RPT button [6]. "**RPT**" lights in the display and the current track is repeated.
2. To cancel the repeat play, press RPT button [6] 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, the disc repeat play automatically replays the current disc over from the first track. This function continues automatically until it is canceled.

1. Press and hold RPT button [6] for 1 second or longer. DISC indication [17] and "**RPT**" light in the display and the disc repeat play starts.
2. To cancel the disc repeat play, press and hold RPT button [6] again. DISC indication [17] and "**RPT**" go off from the display and normal play resumes on the current track.

Random play

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

1. Press RDM button [8]. "**RDM**" lights in the display and the random play begins.
2. To cancel the random play, press RDM button [8] 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 canceled.

1. Press and hold RDM button [8] for 1 second or longer. DISC indication [17] and "**RDM**" light in the display and the disc random play starts.
2. To cancel the disc random play, press and hold RDM button [8] again. DISC indication [17] and "**RDM**" go off from the display and normal play resumes from the current track.

English

MD changer functions

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

Press FUNC button 7 and select the MD changer mode to start play. If 2 MD changers are connected, press FUNC button 7 to select the MD changer for play.

∗ If "**NO DISC**" appears in the display, load MDs into the MD changer.

Pausing play

1. Press Play/pause button 12 to pause play. "**PAUSE**" appears in the display.

2. To resume play, press Play/pause button 12 again.

Switching disc titles and track titles

This unit can display disc titles and track titles already entered on MDs.

∗ Titles cannot be entered for MDs with this unit.

1. Press DISP button 3 to display the title. The disc title or track title is displayed.

2. Each time you press and hold DISP button 3 for 1 second or longer, the display toggles between the disc title and the track title.

Note:
• If an MD is not input its disc title or a track title, "**D TITLE**" or "**T TITLE**" appears in the display.

Selecting an MD

Each of the Direct button 1 corresponds to an MD loaded into the MD changer. Press the corresponding Direct button 1 (1 to 6) to select the desired disc.

∗ If an MD is not loaded in a slot of the MD changer, pressing the Direct button 1 corresponding to its disc number is invalid.

Selecting a track

● **Track-up**

1. Press Right button 16 to move ahead to the beginning of the next track.

2. Each time you press Right button 16, the track advances ahead to the beginning of the next track.

● **Track-down**

1. Press Left button 15 to move back to the beginning of the current track.

2. Press Left button 15 twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● **Fast-forward**

Press and hold Right button 16 for 1 second or longer.

● **Fast-backward**

Press and hold Left button 15 for 1 second or longer.

Top function

The top function plays from the first track (track No. 1) of the disc. Press the Direct button 1 (1 to 6) with the same number as the MD playing.

∗ If an MD is not loaded in a slot of the MD changer, pressing the Direct button 1 corresponding to its disc number is invalid.

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 canceled.

∗ The scan play is useful when you want to select a desired track.

1. Press SCN button 5 to start track scanning. "**SCN**" lights in the display.

2. To cancel the scan play, press SCN button 5 again. "**SCN**" goes off from the display and the current track continues to play.

Disc scan play

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

∗ The disc scan play is useful when you want to select a desired MD.

1. Press and hold SCN button 5 for 1 second or longer. DISC indication 17 and "**SCN**" light in the display and the disc scan play starts.

2. To cancel the disc scan play, press and hold SCN button 5 again. DISC indication 17 and "**SCN**" go 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 canceled.

1. Press RPT button 6. "**RPT**" lights in the display and the current track is repeated.

2. To cancel the repeat play, press RPT button 6 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, the disc repeat play automatically replays the current disc over from the first track. This function continues automatically until it is canceled.

1. Press and hold RPT button 6 for 1 second or longer. DISC indication 17 and "**RPT**" light in the display and the disc repeat play starts.

2. To cancel the disc repeat play, press and hold RPT button 6 again. DISC indication 17 and "**RPT**" go off from the display and normal play resumes on the current track.

Random play

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

1. Press RDM button 8. "**RDM**" lights in the display and the random play begins.

2. To cancel the random play, press RDM button 8 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 canceled.

1. Press and hold RDM button 8 for 1 second or longer. DISC indication 17 and "**RDM**" light in the display and the disc random play starts.

2. To cancel the disc random play, press and hold RDM button 8 again. DISC indication 17 and "**RDM**" go off from the display and normal play resumes from the current track.

TV tuner functions

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

Watching a TV

1. Press FUNC button 7 and select the TV mode.

2. Press BAND button 11 to select the desired TV band (TV1 or TV2). Each time the button is pressed, the input selection toggles between TV1 and TV2.

3. Press Right button 16 or Left button 15 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 12V video cassette player (VCP) or video cassette recorder (VCR) to the TV tuner input terminal.

1. Press RDM button 8 to select VTR.

2. To return to the TV broadcast, press RDM button 8.

Tuning

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

Seek tuning

1. Press BAND button 11 and select the desired TV band (TV1 or TV2).

∗ If "**MANU**" is lit in the display, press and hold BAND button 11 for 1 second or longer. "**MANU**" in the display goes off and seek tuning is now available.

2. Press Right button 16 or Left button 15 to automatically seek to the next station.

Press Right button 16 to automatically tune up the frequency band to the next available TV station; press Left button 15 to automatically tune down.

English

20 DMX5555z

DMX5555z **21**

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 quick tuning mode, you can quickly tune the desired frequency.

1. Press BAND button ⑪ and select the desired band (TV1 or TV2).

   ∗ If "**MANU**" is not lit in the display, press and hold BAND button ⑪ for 1 second or longer. "**MANU**" lights in the display and manual tuning is now available.

2. Tune into a station.

● **Quick tuning:**

   Press and hold Right button ⑯ or Left button ⑮ for 1 second or longer to quickly tune up and down to a desired station.

● **Step tuning:**

   Press Right button ⑯ or Left button ⑮ to manually tune to a station, one channel at a time.

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 BAND button ⑪ and select the desired TV band (TV1 or TV2).

2. To recall a stored TV station, press the desired Preset button ① to select that station.

   ∗ Press and hold one of the Preset buttons ① for 2 seconds or longer to store the current station into the preset memory.

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.

2. Press and hold one of the Preset buttons ① for 2 seconds or longer to store the current station to that preset memory.

Auto store

Auto store selects 6 TV stations automatically and stores each one into a 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 BAND button ⑪ and select the desired TV band (TV1 or TV2).

2. Press and hold AS button ⑤ for 2 seconds or longer. The stations with good reception are automatically stored to the Preset buttons ①.

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 PS button ⑤.

2. When a desired station is found, press PS button ⑤ again to remain tuned to that station.

Note:
• Do not press and hold PS button ⑤ for 2 seconds or longer. Doing so will trigger the auto store function and start storing stations into memory.

Setting the receiver for Diversity tuning

You can change the reception setting for the TV antenna connected to the TV tuner.

∗ The factory default setting is "**ON**".

1. Press and hold ADJ button ⑬ for 1 second or longer to switch to the adjustment selection display.

2. Press Right button ⑯ or Left button ⑮ to select "**TV DIVER**".

3. Press Up button ⑰ to set to "**ON**" or Down button ⑱ to set to "**OFF**".
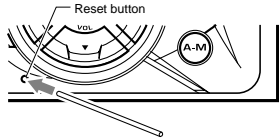
   ON:

   In the "ON" position, the TV tuner emphasizes the visual signal by choosing the antenna with the best signal strength. This requires more than one antenna on the vehicle.

   OFF:

   Set the TV Diver adjustment to the "OFF" position when only using one antenna on the vehicle.

4. Press ADJ button ⑬ to return to the previous mode.

8. TROUBLESHOOTING

	Problem	Cause	Measure
General	Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
		Incorrect wiring.	Consult your store of purchase.
	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-on the amplifiers or power antenna.	1. Turn the unit off. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn the unit back on. 4. 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 with a thin rod.
CD	CD cannot be loaded.	Another CD is already loaded.	Eject the CD before loading the new one.
	Sound skips or is noisy.	CD is dirty.	Clean the CD with a soft cloth.
		CD is heavily scratched or warped.	Replace with a CD with no scratches or no warped.
	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 it dry for about 1 hour with the power on.
MD	MD cannot be loaded.	Another MD is already loaded.	Eject the MD before loading the new one.
	MD is immediately ejected.	MD inserted wrongly.	Insert correctly.
		Non-recorded MD is loaded.	Replace with a pre-recorded MD.
	Sound skips or is noisy.	MD is heavily scratched or warped.	Replace with an MD with no scratches or no warped.
	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 it dry for about 1 hour with the power on.

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
CD	ERROR 2	A CD is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism and consult your store of purchase.
	ERROR 3	A CD cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
MD	ERROR 2	An MD is caught inside the MD deck and is not ejected.	This is a failure of MD deck's mechanism and consult your store of purchase.
	ERROR 3	An MD cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
CD changer	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism and consult your store of purchase.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
MD changer	ERROR H	Displayed when the temperature in the MD changer is too high and playback has been stopped automatically.	Lower the surrounding temperature and wait for a while to cool off MD changer.
	ERROR 2	An MD inside the MD changer is not loaded.	This is a failure of MD changer's mechanism and consult your store of purchase.
	ERROR 3	An MD inside the MD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	Displayed when a non-recorded MD is loaded in the MD changer.	Load a pre-recorded MD in the MD changer.

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:
  11 dBf
50dB Quieting Sensitivity:
  17 dBf
Alternate Channel Selectivity:
  75 dB
Stereo Separation (1 kHz):
  35 dB
Frequency Response ($\pm$3 dB):
  30 Hz to 15 kHz

AM Tuner

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

CD Player

Frequency Response ($\pm$1 dB):
  10 Hz to 20 kHz
Signal to Noise Ratio (1 kHz):
  100 dB
Dynamic Range (1 kHz):
  95 dB
Harmonic Distortion:
  0.01%

MD Player

Frequency Response ($\pm$2 dB):
  20 Hz to 20 kHz
Signal to Noise Ratio (1 kHz):
  90 dB
Dynamic Range (1 kHz):
  85 dB
Harmonic Distortion:
  0.01%

Audio

Maximum Power Output:
  160 W (40 W $\times$ 4 ch) (EIAJ)
Continuous Average Power Output:
  14 W $\times$ 4, into 4 Ω, 20 Hz to 20 kHz, 1%THD
Bass Control Action (30 Hz):
  $\pm$15 dB
Treble Control Action (10 kHz):
  $\pm$10 dB
Line Output Level (MD 1 kHz):
  4 V

General

Power Supply Voltage:
  14.4 V DC (10.8 to 15.6 V allowable),
  negative ground
Current Consumption:
  Less than 15 A
Speaker Impedance:
  4 Ω (4 Ω to 8 Ω allowable)
Weight / Source unit:
  5.5 lb. (2.5 kg)
Weight / Remote control unit:
  1 oz. (30 g) (including battery)
Dimensions / Source unit:
  7″ (Width) $\times$ 3-15/16″ (Height) $\times$ 6-1/8″ (Depth)
  [178 (W) $\times$ 100 (H) $\times$ 155 (D) mm]
Dimensions / Remote control unit:
  1-3/4″ (Width) $\times$ 4-5/16″ (Height) $\times$ 1-1/8″ (Depth)
  [44 (W) $\times$ 110 (H) $\times$ 27 (D) mm]

Notes:
• Specifications comply with EIA Standards.
• US and foreign patents licensed from Dolby Laboratories Licensing Corporation.
• Specifications and design are subject to change without notice for further improvement.

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