clarion

AM/FM STEREO CD PLAYER WITH CD CHANGER CONTROL

DRX9255

Owner's Guide

Thank you for purchasing the **Clarion DRX9255**.
* Please read this Owner's Guide 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.
* The subsection "CD Changer Mode Operations" of this Owner's Guide provides the operation procedure of a CD changer which is connected to DRX9255 by C-BUS cable. (If you buy the CD changer only, it is accompanied only by its owner's guide. The operation guide of the CD changer is included in this Owner's Guide.)
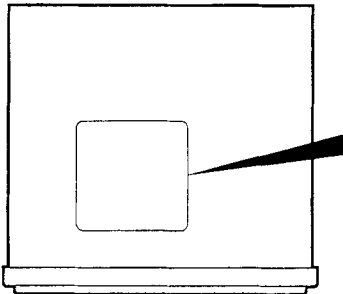
■ Contents

1. 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 and the condensation will disappear naturally to allow normal operation.

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 16 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help.

!

USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

Bottom View of Source Unit

MODEL **DRX9255** Clarion

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

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 OPERATION.

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

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

MANUFACTURED

SERIAL No.   286-8520-00
PE-2221B   Clarion Co.,Ltd.
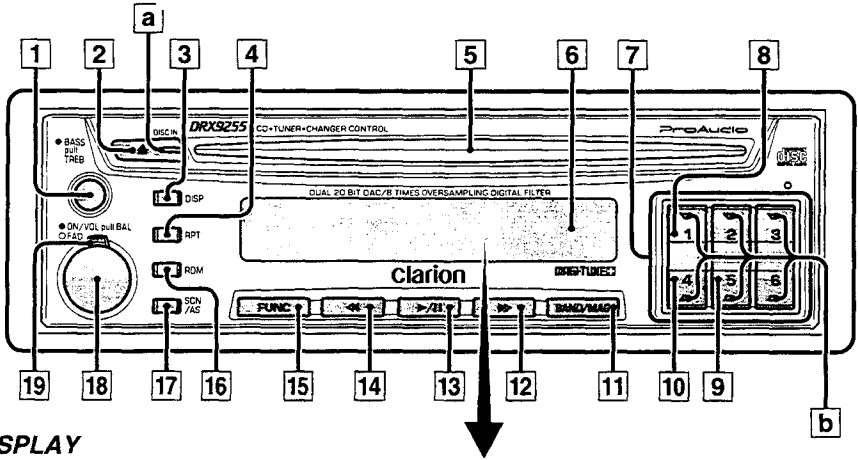   MADE IN JAPAN

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.
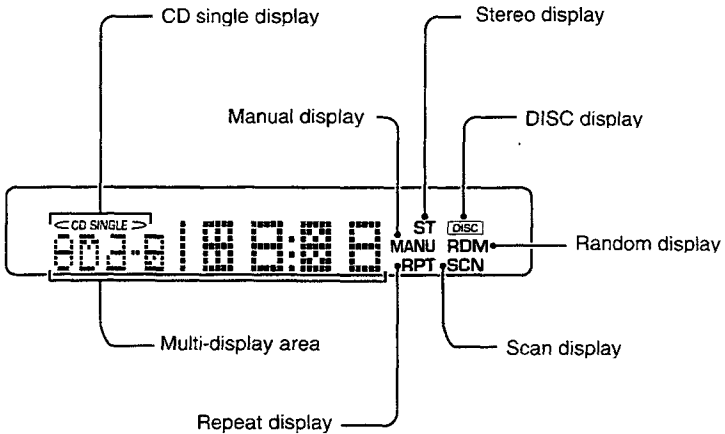
2

2. CONTROLS

Note: Be sure to spread this page and refer to the front diagrams when you read each chapter.

SOURCE UNIT

DISPLAY

CD single display

Stereo display

Manual display

DISC display

Random display

Multi-display area

Scan display

Repeat display

Note: Illustration of the display on this page shows the condition that all functions light, therefore actual display differs from it.

3. FEATURES

- ■ 18 FM/6 AM Touchbutton Memory
- ■ ᴍᴀɢɪᴛᴜɴᴇᴅ® FM Reception System
- ■ 8 Times Oversampling Digital Filter
- ■ Dual 20-bit D/A Converters
- ■ Fiber Optic Input for CD Changer
- ■ Random/Repeat/Scan Play
- ■ 6/12/18-Disc CD Changer Control Capability
- ■ Bass & Treble Controls
- ■ 4-Channel Gold-Plated Line Level Output
- ■ FM Diversity Tuner
- ■ 4 Volt Line Level Output

4. HANDLING COMPACT DISCS

This unit has been designed specifically for reproduction of compact discs bearing the [disc] mark. No other discs can be played.

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

Removing the disc   Proper way to hold
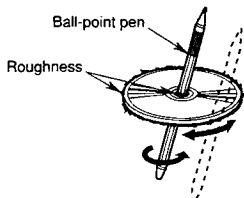   the compact disc
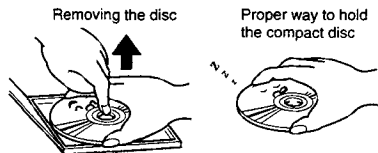
Always handle the compact disc by the edges. Never touch the surface.

To remove fingermarks and dust, use a soft cloth, and wipe in a straight line from the center of the compact disc to the circumference.
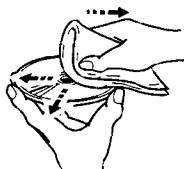
New discs may have some roughness around the edges. The set may not work or the sound may skip if such discs are used. Use a ball-point pen, etc. to remove roughness from the edge of the disc.

Ball-point pen
Roughness

Note on Compact Discs

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

No

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

No

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

No

Do not expose compact discs to direct sunlight or any heat source.
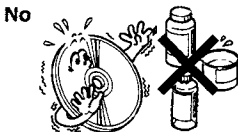
No

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

5
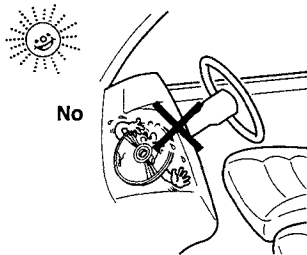
5. BUTTON TERMINOLOGY

Note: *Be sure to read this chapter referring to the front diagrams of chapter "2. CONTROLS" on page 3 (spread).*

[1] BASS/pull TREB (Treble) Control Knob

[2] Eject (▲) Button [⊖]

[3] DISP (Display) Button

[4] RPT (Repeat) Button [⊖], [ⓒ⊖]

[5] **CD Insertion Slot**

[6] **DISPLAY**

[7] Direct Buttons [ⓒ⊖]
    Preset Buttons [📻]

[8] Direct 1 Button

[9] Direct 5 Button

[10] Direct 4 Button

[11] Top Play Button [⊖]
    MAG (Magazine) Button [ⓒ⊖]
    BAND Button [📻]

[12] Up (▶▶) Button

[13] Play/Pause (▶/II) Button [⊖], [ⓒ⊖]

[14] Down (◀◀) Button

[15] FUNC (Function) Button

[16] RDM (Random) Button [⊖], [ⓒ⊖]

[17] SCN (Scan) Button [⊖], [ⓒ⊖]
    AS (Auto Store) Button [📻]

[18] ON Power Switch
    VOL (Volume) Control Knob
    pull BAL (Balance) Control Knob

[19] FAD (Fader) Control Knob

[a] DISC IN Indicator [⊖]

[b] Disc Indicators [ⓒ⊖]
    Preset Indicators [📻]

[📻] : In Radio Mode

[⊖] : In CD Mode

[ⓒ⊖] : In CD Changer Mode

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6. OPERATION

Basic Operations

!

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

NOTE: Use this unit after starting the engine.

ACC or engine
ON position

Turning on the power and adjusting the volume

NOTE: Before turning on the power of this unit, turn on the power of other connected equipment (amplifier, graphic equalizer, etc.).
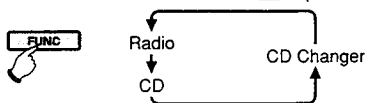
1) Rotate the Power switch ⑱ clockwise until a click is heard. The power is turned on.

Power ON

* A mode when the power was turned off last is set.

2) Press the FUNC button ⑮ to select the operation mode.

☛ The mode switches in the following order each time the FUNC button ⑮ is pressed:

FUNC → Radio → CD Changer
        ↓
        CD ←────────────

* The mode can be switched even while a CD in the CD insertion slot or in the CD changer is played.

Notes:
• If the CD changer is not connected, CD changer mode cannot be selected.
• If no CD is loaded in the magazine during CD changer mode, "DISC" flashes in the display.

⌐ CD ⌐ DISC ⌐

3) Adjust the volume by rotating the VOL Control knob ⑱.

① Volume up:
Rotate the knob clockwise.

② Volume down:
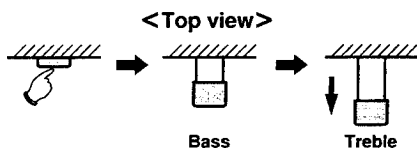Rotate the knob counterclockwise.

② ← ① →

Turning off the power

Rotate the Power switch ⑱ counterclockwise until a click is heard.

* The power can be turned off when a CD is being played.

Adjusting bass and treble

Before the adjustment, press the BASS/TREB Control knob ① to make it come up.

* Press this knob again to push it back to the original position.
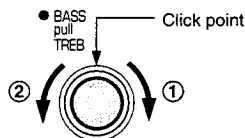
<Top view>

Bass   Treble

Bass adjustment
Rotate the BASS/TREB Control knob ① to adjust BASS.

① Bass increases:
By rotating this knob clockwise from the middle position (click point).

② Bass decreases:
By rotating this knob counterclockwise from the middle position (click point).

● BASS ───── Click point
pull
TREB

②   ①

* Push the knob back after adjustment.

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Treble adjustment

Pull the BASS/TREB Control knob [1] further from the position where it has come up (slightly tight at first) and rotate it to adjust the treble.
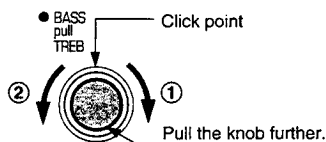
Note:
• Pull the knob slowly. If pulled forcefully, it may come off.

① **Treble increases:**

By rotating this knob clockwise from the middle position (click point).

② **Treble decreases:**

By rotating this knob counterclockwise from the middle position (click point).

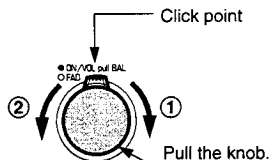* Push the knob back after adjustment.

Balance adjustment

Pull the BAL Control knob [18] and rotate it to adjust the balance.

① **Volume from the right speakers increases:**
By rotating this knob clockwise from the middle position (click point).

② **Volume from the left speakers increases:**
By rotating this knob counterclockwise from the middle position (click point).

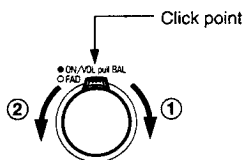* Push the knob back after adjustment.

Fader adjustment

Rotate the FAD Control knob [19] to adjust the fader.

① **Volume from the front speakers increases:**
By rotating this knob clockwise from the middle point (click point).

② **Volume from the rear speakers increases:**
By rotating this knob counterclockwise from the middle point (click point).

Switching the display (clock display and others)

Press the DISP button [3] to select a display.
☞ Each time the DISP button [3] is pressed, the display changes in the following order:

Radio mode: Radio mode display
↓
Clock display

CD mode/CD changer mode:

Track number display
↓
Play time display
↓
Clock display
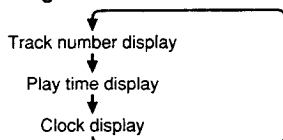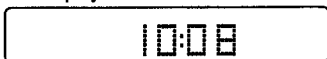
Clock display

Setting the clock

1) Press the DISP button [3] to display the clock.

2) Press and hold the DISP button [3] for 1 second or longer. The clock display flashes.

Clock display

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3) Press the Up button ⑫ to adjust "minute".
   * Pressing and holding the Up button ⑫ advance minutes quickly.

```
 ┌─────────────────┐
 │    ▼▲▼          │
 │   ┐·┌ ┌ ▶       │
 │   ┘ ┘ ┘        │
 │    ▲▼▲          │
 └─────────────────┘
       👆═▶
```
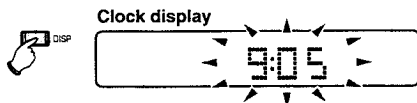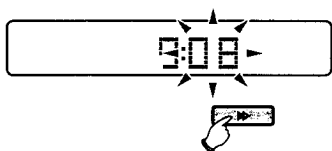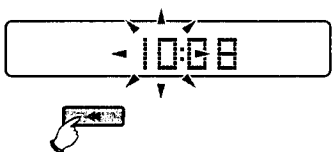
4) Press the Down button ⑭ to adjust "hour".
   * Pressing and holding the Down button ⑭ advance hours quickly.

```
 ┌─────────────────┐
 │    ▼▲▼          │
 │ ▶ │┌·┌ ┌        │
 │   │┘ ┘ ┘        │
 │    ▲▼▲          │
 └─────────────────┘
    👆◀═
```

5) Press the DISP button ③. The second is reset to zero and the clock is set.

Notes:

• If you select another operation mode while you are setting the clock, the clock setting operation will be canceled.

• If you remove the battery for a check or repair, the clock will stop, so you must set it again.

Turning the BEEP on and off

Each time you press the Direct 4 button ⑩ while pressing and holding the DISP button ③ (double press), BEEP is turned on and off.
When BEEP is turned on or off, first, "**BEEP**" and then, "**On**" or "**OFF**" lights in the display.

BEEP display

```
┌──────────┐        ┌──────────┐
│ ﹈ E E P  │  ━▶   │  ☐ n     │
└──────────┘        └──────────┘
                         or
                    ┌──────────┐
                    │  ☐ F F   │
                    └──────────┘
```
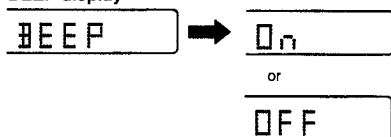
Switching the instrument lighting color

Each time you press the Direct 1 button ⑧ while pressing and holding the DISP button ③ (double press), the instrument lighting color other than the display color switches between green and amber.

9

Radio Mode Operations

Listening to the radio

1) Press the FUNC button ⑮ and select radio mode.

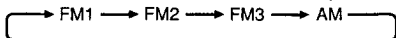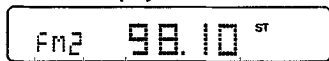2) Press the BAND button ⑪ and select FM1, FM2, FM3 or AM.

   ☛ The band changes in the following order each time the BAND button ⑪ is pressed:

   ┌─→ FM1 ──→ FM2 ──→ FM3 ──→ AM ─┐
   └──────────────────────────────┘

3) Press the UP button ⑫ or the Down button ⑭. When a station is found, it is automatically tuned in (Seek tuning).

Radio mode display

```
┌─────────────────────────┐
│  FM2      98.10      ST  │
└─────────────────────────┘
```
AM or FM Mode   Reception frequency
(Received band)

   * When listening to the radio in stereo mode, "**ST**" lights in the display.

Tuning procedure

Manual tuning

1) Press the BAND button ⑪ and select the desired band.

2) Press and hold the BAND button ⑪ again for 2 seconds or longer. "**MANU**" lights in the display and manual tuning becomes available.

3) Press the Up button ⑫ or the Down button ⑭ to tune in to the desired frequency.

Seek tuning

1) Press the BAND button ⑪ and select the desired band.

2) When "**MANU**" lights in the display, press and hold the BAND button ⑪ for 2 seconds or longer.
   When "**MANU**" disappears from the display, the seek tuning becomes available.

3) Press the Up button ⑫ or the Down button ⑭. Tuning automatically stops when a station is found.

Preset tuning

1) Press the BAND button ⑪ to select a desired band.

2) Press the Preset buttons ⑦ (1 to 6).

Preset memory function

A total of 24 stations can be preset in the Preset buttons ⑦ (1 to 6).

   * Up to 18 FM stations (6 each for the FM1, FM2 and FM3) and 6 AM stations can be preset in the Preset buttons ⑦ (1 to 6).

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

Manual memory function

1) Press the BAND button ⑪ to select the band at which to store the station.

2) Press the Up button ⑫ or the Down button ⑭ to tune in to the station to be preset.

3) Press and hold one of the Preset buttons ⑦ (1 to 6) at which you want to store that station for 2 seconds or longer. The station is stored at that button.

Auto store function

1) Press the BAND button ⑪ to select the band of the stations you want to store.

2) Press and hold the AS button ⑰ for 2 seconds or longer. Stations with good reception are automatically stored.

   * If there are fewer than 6 stations with good reception, the stations previously stored at the remaining Preset buttons ⑦ (1 to 6) are not cleared.

Preset scanning

When the SCN button ⑰ is pressed, the preset stations stored in the Preset buttons ⑦ (1 to 6) are tuned in for 7 seconds each in the order in which they were stored.

When the preset station is tuned in, the Preset indicator ⓑ of the corresponding Preset button lights. If you want to select the station currently tuned in, press the Preset button ⑦ whose Preset indicator ⓑ lights.

   * If the SCN button ⑰ is pressed and held for 2 seconds or longer, the auto store function is set.

   * A station that cannot be tuned in is skipped and the next preset station is tuned in.

Preset scan display

```
┌─────────────────────────┐
│  AM  P-5    530          │
└─────────────────────────┘
```
                Preset number

10
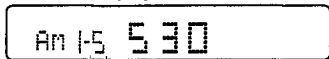
Turning on and off the FM diversity

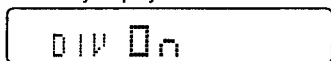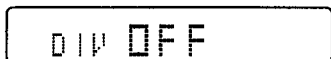When an FM station is tuned in, each time you press the Direct 5 button 9 while pressing and holding the BAND button 11 (double press), FM diversity turns on and off. When FM diversity is on, "**DIV On**" lights and when off, "**DIV OFF**" lights in the display.

FM diversity display

```
┌─────────────────────────┐
│  ΠΙΡ Πη                  │
└─────────────────────────┘
            or
┌─────────────────────────┐
│  ΠΙΡ ΠFF                 │
└─────────────────────────┘
```

Note:
● When two antennas are connected, the FM diversity should be "ON". When one antenna is connected, it should be "OFF" (factory setting is "ON"). Wrong setting may cause noise.

Area change

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

Switchable frequency setting

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

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

Changing area

Outside U.S. (New Setting)

While pressing and holding the BAND button 11, press the Down button 14 (double press). The initial setting changes to the new setting (outside U.S.).

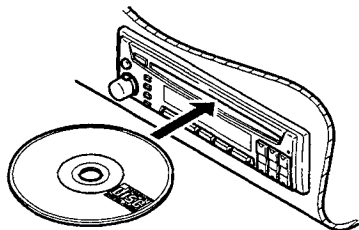**Inside U.S. standard (Initial Setting)**

While pressing and holding the BAND button 11, press the Up button 12 (double press). The new setting (outside U.S.) returns to the initial setting (inside U.S.).

11

CD Mode Operations

Loading a disc

If the unit is not set to CD mode, when you insert a CD into the CD insertion slot with the labeled side facing up, playback begins automatically.

* When loading a 3-inch single CD (8 cm CD), load it straight in from the center of the slot.
* When a 3-inch single CD (8 cm CD) is loaded, " ⊂CD SINGLE ⊃" lights in the display.
* Load a 3-inch single CD (8 cm CD) without any adapter.

CD mode display

Mode   Track number

* If you press the DISP button ③, the display switches to the play time indication.

Listening to the CD already inserted

Press the FUNC button ⑮ and select CD mode. Playback begins automatically.
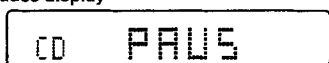* When a CD is already inserted, DISC IN indicator ⓐ lights.

Stopping (pausing) playback

Press the Play/Pause button ⑬. Playback pauses.
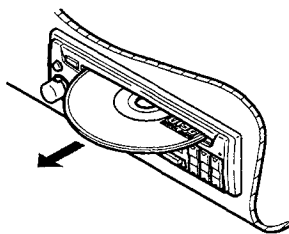To resume playback, press the Play/Pause button ⑬ again.

Pause display

Ejecting the CD

Press the Eject button ② to eject the CD.
* CDs are automatically reloaded after 15 seconds if they are left in the ejected position.
Single CDs are not reloaded. Be sure to remove them.

Top play function

Press the Top Play button ⑪ to play from the first song (track number 1 of the CD).

Selecting tracks (songs)

Press the Up button ⑫ or the Down button ⑭.
▶▶ : Starts playback from the beginning of the following track.
◀◀ : Starts playback from the beginning of the current track. If pressed again, the track moves to the previous one.

Fast-forward and fast-backward

Press and hold the Up button ⑫ or the Down button ⑭.
▶▶ : Fast-forwards the disc.
◀◀ : Fast-backwards the disc.
* Pressing and holding the button for 1 second or longer will move forward or backward 5 times faster than normal play, and pressing and holding it for 3 seconds or longer will do the operation 30 times faster.

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Scan play

Press the SCN button ⏸. "**SCN**" lights in the display and the first 10 seconds of all the tracks on the CD are played.
To cancel, press the SCN button ⏸ again.
∗ Scan play starts from the next track of the one currently played.

Repeat play

Press the RPT button ④. "**RPT**" lights in the display and the current track is played repeatedly.
To cancel, press the RPT button ④ again.

Random play

Press the RDM button ⏹. "**RDM**" lights in the display and all the tracks of the current CD are played in random order.
To cancel, press the RDM button ⏹ again.

CD Changer Mode Operations

When a CD Changer (CDC605, CDC1205, CDC1805, etc.) which is sold separately is connected, it can be controlled with the DRX9255.
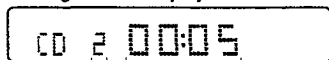
Notes:
- CD-ROMs cannot be played.
- Read the owner's guide for the CD changer beforehand and set the CD.

Listening to the CD

Press the FUNC button [15] and select CD changer mode. Playback starts.

CD changer mode display

```
[D ? 00·05
```
Magazine disc number   Play time

When no CD is inserted in the magazine, or no magazine is set in the CD changer, "**DISC**" flashes in the display.

No CD or no magazine display

```
CD ⁻∃ |5[⁻
```

Stopping (pausing) playback

Press the Play/Pause button [13].
To cancel, press the Play/Pause button [13] again.

Select a desired CD

Press the Direct buttons [7] to select the desired CD.
* The Direct indicator [b] with the number same as the inserted disc number in the magazine lights.

Select a desired track

Press the Up button [12] or the Down button [14].
▶▶ : Starts playback from the beginning of the next track.
◀◀ : Starts playback from the beginning of the current track. If pressed again, the previous track is played.

Fast-forward and fast-backward

Press the Up button [12] or the Down button [14].
▶▶ : Fast-forwards the CD.
◀◀ : Fast-backwards the CD.
* Pressing and holding the button for 1 second or longer will move forward or backward 3 times faster than normal play, and pressing and holding it for 3 seconds or longer will do the operation 30 times faster.

Scan play

Press the SCN button [17]. "**SCN**" lights in the display and the first 10 seconds of the tracks on the current CD are played.
To cancel, press the SCN button [17] again.
* Scan play starts from the next track of the one currently being played.

Disc scan play

Press and hold the SCN button [17] for 2 seconds or longer. " DISC " and "**SCN**" light in the display and the first 10 seconds of the first tracks of all the CDs in the CD changer are played.
To cancel, press the SCN button [17] again.
* Disc scan play starts from a CD next to the one currently being played.

Repeat play

Press the RPT button [4]. "**RPT**" lights in the display, and the current track is played repeatedly.
To cancel, press the RPT button [4] again.

Disc repeat play

Press and hold the RPT button [4] for 2 seconds or longer. " DISC " and "**RPT**" light in the display and the current CD is played repeatedly.
To cancel, press the RPT button [4] again.

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Random play

Press the RDM button [16]. **"RDM"** lights in the display and all the tracks on the current CD are played in random order.
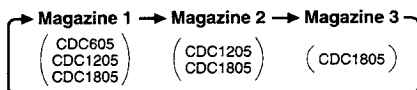To cancel, press the RDM button [16] again.

Disc random playback

Press and hold the RDM button [16] for 2 seconds or longer. " [DISC] " and **"RDM"** light in the display and the tracks on all the CDs in the CD changer are played in random order.
To cancel, press the RDM button [16] again.

Switching magazine (when the CDC1205 or CDC1805 is connected)

This function can be used only when the connected CD changer can store a multiple number of magazines.
Each time you press the MAG button [11], the current magazine switches to the next one.

┌► Magazine 1 ─► Magazine 2 ─► Magazine 3 ┐
$$\begin{pmatrix} CDC605 \\ CDC1205 \\ CDC1805 \end{pmatrix} \quad \begin{pmatrix} CDC1205 \\ CDC1805 \end{pmatrix} \quad \begin{pmatrix} CDC1805 \end{pmatrix}$$

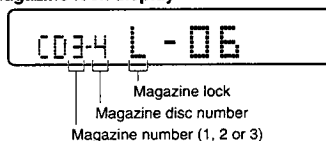∗ Up to 6 CDs can be set in one magazine.

Locking the magazine

If the MAG button [11] is pressed and held for 2 seconds or longer, only the CD inserted in the selected magazine is played. The selected magazine number lights in the display.
To cancel, press and hold the MAG button [11] for 2 seconds or longer.

∗ Even when the magazine is locked, pressing the magazine button switches the magazine, and the new one is locked.
∗ When the magazine is locked, scanning and random playback are performed only for the locked magazine.

Magazine lock display

```
┌─────────────────────┐
│  [D3-H  L - D E      │
└─────────────────────┘
            │  │    │ │
            │  │    │ └ Magazine lock
            │  │    └── Magazine disc number
            │  └─────── Magazine number (1, 2 or 3)
```

Note:

• When the magazine is locked, scanning and random playback are performed only for the locked magazines.

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7. FM RECEPTION

MRGI·TUNEC:® TUNER

Understanding the Difficulties of FM Reception in Your Car

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

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

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

The MRGI·TUNEC:® AM/FM Tuner
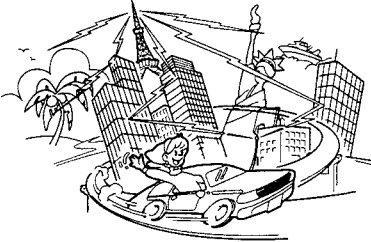
MRGI·TUNEC:® combines both AM and FM tuners into one small, unique package. The design incorporates many advanced technologies exclusively engineered to improve FM and AM performance.

Signal Actuated Stereo Control (SASC)

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

FM Impulse Noise Canceller (Clean Z1)

To deal with radiated RF energy noise (usually caused by the vehicle's ignition system), Clarion devised the Clean Z1 – a circuit that attacks impulse noise at its source. It is not to be confused with a simple series filter. Instead it is a highly discriminating circuit that identifies and eliminates noise components in an FM source while still preserving the overall integrity of the signal.

Balanced Mixer FM Front-End – Dual-Gate FET

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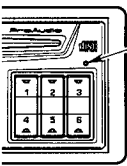
Triple Stage Narrow Band IF Filters

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

Six Diode IC in the AM Section

Typically, in the design stage of most tuners, the AM section receives the least emphasis. However, Clarion realizes the importance of the AM tuner. Our use of a new 6-diode IC greatly enhances AM performance by reducing distortion and improving the overall sensitivity of the tuner.

8. TROUBLESHOOTING

Symptom	Cause	Measure
Power does not switch on. (There is no sound produced.)	The fuse has blown.	Replace the fuse with one of the same rating. If the fuse blows again, contact your store of purchase.
	Wiring is incomplete.	Read the attached "Installation/Wire Connection Guide" once again and wire properly.
The compact disc does not enter.	There is already a compact disc inside the disc insertion slot.	Eject the compact disc and then insert another one.
The compact disc soon comes out again.	The compact disc has been inserted upside down.	Insert the compact disc with the labeled side facing up.
Sound skipping noise and other noise are heard.	The compact disc is dirty.	Wipe the compact disc with a soft cloth.
	The compact disc is severely scratched or warped.	Replace the compact disc with one that is in good condition.
The sound is poor immediately after switching on the power.	When the car is parked in a humid place, dew might form on the internal lens.	Turn the unit on and wait for about 1 hour before operating.
Nothing happens when buttons are pressed. Display is not accurate.	Microprocessor has malfunctioned due to noise, etc.	Press the reset button for about 2 seconds with a thin rod. Reset button

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9. ERROR DISPLAYS

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

Error Display	Cause	Measure
Err 1	Displayed when the battery of the CD changer has run down.	Replace the battery of the CD changer with a new one.
Err 2	Displayed when the CD is stuck and can not be ejected.	Mechanism of the CD changer or the source unit could be damaged. Contact your store of purchase.
Err 3	Displayed when the CD is scratched, etc. and cannot be played.	Replace the CD in the source unit or the CD changer with an unscratched and un-warped one.
Err 6	Displayed when the CD is inserted up-side-down into the CD changer and can-not be played.	Reload the CD properly.
HHHHH	Displayed when the temperature in the CD changer or in the source unit becomes high and playback has been stopped automatically.	Lower the surrounding temperature and wait for a while to cool off the source unit or the CD changer.

10. SPECIFICATIONS

FM Tuner

Frequency Range: 87.9 MHz to 107.9 MHz
Usable Sensitivity: 9 dBf
50 dB Quieting Sensitivity: 15 dBf
Alternate Channel Selectivity: 75 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: 20 μV

CD Player

System: Compact disc audio system
Usable Discs: Compact disc
Frequency Response: 5 Hz to 20 kHz (±1 dB)
Signal to Noise Ratio: 110 dB (1 kHz) IHF-A
Dynamic Range: 100 dB (1 kHz)

Audio

Bass Control Action (50 Hz): ±12 dB
Treble Control Action (10 kHz): ±12 dB
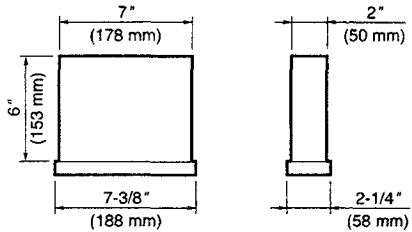Line Output (CD): 4 V

General

Power Supply Voltage: 14.4 V DC (10.8 V to
    15.6 V allowable), negative ground
Current Consumption: Less than 3 A
Weight:
    Source unit: 3 lb. 15-1/2 oz. (1.8 kg)
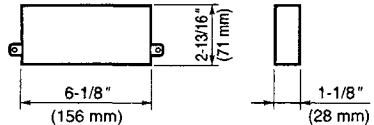   DC/DC converter: 1 lb. 1.6 oz. (0.3 kg)
Dimensions:
    Source unit: 7" (178 mm) Width × 2" (50
    mm) Height × 6" (153 mm) Depth
    DC/DC converter: 6-1/8" (156 mm) Width ×
    1-1/8" (28 mm) Height × 2-13/16"
    (71 mm) Depth

Source unit

DC/DC converter

Notes:

• Specifications comply with EIA Standards.
• Specifications and the design are subject to change without notice for further improvement.