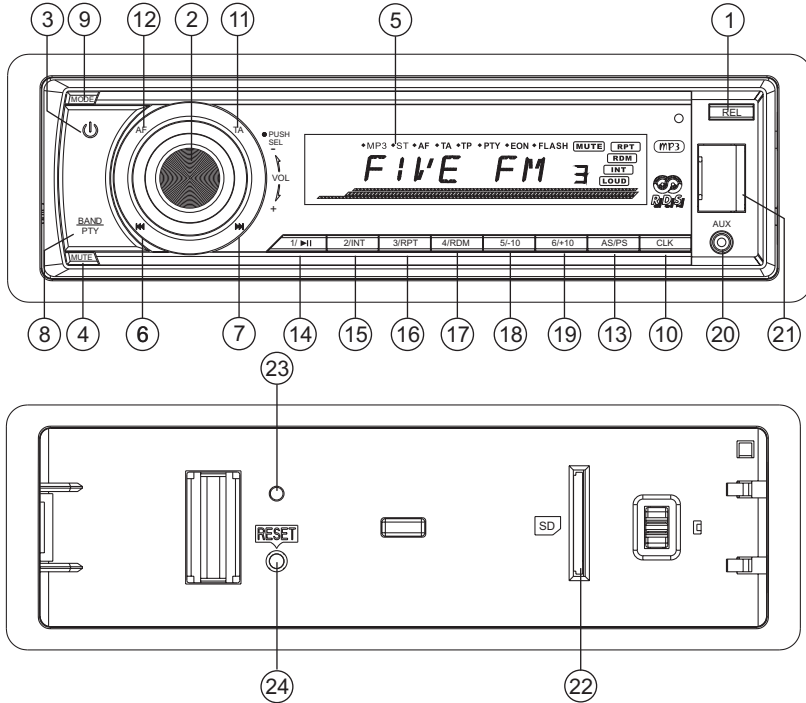


RMD 210

Instruction manual

LOCATION AND FUNCTION OF CONTROLS



1. RELEASE BUTTON

Press the REL button to release the front control panel from the unit chassis, then pull it up a little to remove from the unit chassis. When the front control panel is removed the LED indicator flashes.

2. SEL BUTTON (Select) AND VOL CONTROL BUTTON

a) Press the SEL button briefly, it is activated as selecting each mode of E. VOL.
-> VOLUME -> BASS -> TREBLE -> BALANCE -> FADER ->

When selecting a desired audio mode, rotate the VOL+ or VOL- button to adjust the audio effect.

In each mode, the waiting time is about 5 seconds, and after this time, it returns to the last display mode.

The control mode of E.VOL is operated with following numeric display.

- VOL: (MIN)00, 01,46, 47 (MAX).
- BASS/TRE: -07, -06, ..., 00, ..., +06, +07
- BAL: 0LR9, 1LR9, ..., 9LR9, ..., 9LR1, 9LR0
- FAD: 0FR9, 1FR9, ..., 9FR9, ..., 9FR1, 9FR0

b) Press SEL button and hold for more than 2 seconds to turn on TASEEK/TAALARM mode, then press SEL button shortly and repeatedly to select PI SOUND/PI MUTE, RETUNE L/RETUNE S, MASK DPI/MASK ALL, BEEP ON/BEEP OFF, USER SET (FLAT/CLASSIC/ROCK/POP), VOLLAST/VOL DEFA, STEREO/MONO (in RADIO mode), LOUD OFF/LOUD ON, DX/LOCAL (in RADIO mode), CLK ON/CLK OFF, CLK 12/24 mode. After selecting the desired mode, rotate the VOL- or VOL+ button to select one setup item of the desired mode.

1) TA SEEK/TA ALARM:

TA SEEK mode: when newly tuned station does not receive TP information for 5 seconds, the radio retunes to next station which has a different PI to the last station, but has the TP information.

When TP information gets lost at the current station for retune time which is set by RETUNE SHORT (90 seconds) or RETUNE LONG (150 seconds), the radio starts to retune to next same PI station. When same PI station does not receive in 1 cyclic search, the radio retunes to next station with TP information.

TA ALARM mode: when this mode is selected, any automatic retune mode is not activated. Only double beep sound (ALARM) will be heard.

When newly tuned station does not have TP information for 5 seconds, beeps are sounded.

When TP information gets lost at the current station for retune time, the beep sound will be heard.

When newly tuned station has no RDS signal, PI SEEK is suppressed.

2) PI SOUND/PI MUTE:

PI SOUND mode: if a car cruises between buildings that could cause reflecting signals, a phenomenon may occur, due to different PI codes being received from the same AF source. When different PI sounds (DIP) are heard occasionally, this will happen for less than 1 second.

PI MUTE mode: under above same situation, a mute sound will be heard for less than 1 second.

3) RETUNE L/RETUNE S:

The initial time of automatic TA search or PI SEARCH mode is selected.

When PI information is not received for retune interval, the radio starts to retune to next same PI station.

When same PI station does not receive 1 cyclic search, the radio goes to last station and waits for 4-5 minutes until PI code is received.

RETUNE L mode: selected as 150 seconds.

RETUNE S mode: selected as 90 seconds.

4) MASK DPI/MASK ALL:

MASK DPI mode: masks only the AF which has different PI.

MASK ALL mode: masks the AF which has different PI and no RDS signal with high field strength.

5) BEEP ON/BEEP OFF

BEEP ON mode: The beep is generated when any key is pressed.

BEEP OFF mode: The beep sound is disabled.

6) VOL LAST/VOL DEFA

VOL LAST: The radio switches on at the actual volume it had when it was last switched off.

VOL DEFA: After pressing SEL button, AVOL will be displayed. Then you can pre-select a constant switch-on volume by using the VOL knob.

7) CLK ON/OFF

CLK ON: Clock will always show on the display when power off.

CLK OFF: Clock will disappear on the display when power off.

3. POWER BUTTON

When the unit is power off, it will switch on by pressing any button except the EJECT and the RELEASE button.

When the unit is power on, press and hold the power button for more than 0.5 seconds, the unit goes into power off mode.

4. MUTE BUTTON

When the unit is powered on, press this button to switch the MUTE on/off.

5. LCD Display

6&7. TUNE, SEEK, TRACK, SKIP UP / DOWN BUTTONS

a) In RADIO mode:

Press the >>| or |<< button briefly to manually tune up/down for your desired radio station step by step.

Press and hold the >>| or |<< button for more than 0.5 seconds to automatically tune up/down for an available radio station of strong signal.

b) In SD/MMC & USB mode:

Press the >>| button briefly to play next track. Press the |<< button briefly to play from the beginning of the current or previous track.

Press and hold the >>| or |<< button to skip forward or backward, release to resume normal playback.

8. BAND & PTY (PROGRAM TYPE) BUTTON

During radio mode, press the BND button briefly to select the radio broadcasting band you would like to hear. The AM/FM band is toggled cyclically through the tuning bands: ->FM 1-> FM 2-> FM 3-> MW 1->MW2 ->.

Press and hold the button to select one of the following mode:

POP M-- NEWS

While selecting PTY TYPE, its selection is implemented by preset buttons as described in preset key. (press one of the 6 preset buttons shortly and repeatedly to select the PTY TYPE in the preset button) When POP M or NEWS is on, the previous PTY program and PTY icon is displayed on LCD. If there are no keys entered for 2 seconds, previously selected PTY is searched. During 1 loop, if desired PTY is not found, NO PTY is flashed, then returns to previous normal radio and PTY icon disappear.

9. MODE BUTTON

Press it to select RADIO, CARD (after inserting an SD/MMC card), USB (after inserting USB stick) and AUX mode.

10. CLOCK BUTTON

Press the CLK button briefly to display time for 5 seconds on the display, and then returns to its previous display unless the button is pressed again.

Then press the CLK button and hold for more than 1 second until the real time flashes on the display. Then you can adjust HOUR or MINUTE by rotating the VOL- or VOL+ button.

11. TA [TRAFFIC ANNOUNCEMENT] BUTTON

When pressing the button, TA mode is switched on or off.

When TA mode is on (TA is displayed on LCD), it will begin to seek TA station and TA SEEK will be displayed on LCD for a while.

When traffic announcement is transmitted:

- 1). If the unit is in SD/MMC, USB mode, it will switch to radio mode temporarily.
- 2). If volume level is below 20, volume level is raised to 20, and returns to its previous mode and volume level when the traffic announcement is over.
If volume is adjusted during traffic announcement, only the traffic announcement volume is valid.

- * TA interruption function:
The current traffic announcement is cancelled by pressing this key. But the TA mode will not be off.
- * When TA is on, SEEK, (SCAN), AUTO MEMORY function can be received or saved only when traffic program identification code has been received.
When TA is ON, traffic program identification code is not received during specified time.

12. AF [ALTERNATIVE FREQUENCIES] BUTTON

When pressed briefly, AF switching mode is selected and the state of AF switching mode is displayed by AF segment in display.

Segment off: AF switching mode off.

Segment on: AF switching mode on, and has RDS information.

Segment flashing: AF switching mode on, but RDS information is not received yet.

When AF switching mode is selected, the radio checks the signal strength of AF all the time. The interval of checking time of each AFs depends on the signal strength of current station, from a few minutes for a strong station to a few seconds for weak station. Every time that new AF is stronger than current station, it switches over to that frequency for very short time, and NEW FREQUENCY is displayed for 1-2 seconds.

Because the mute time of AF switching or checking time is very short, it is almost inaudible in case of normal program.

During FM mode, when AF is on, SEEK, (SCAN), AUTO-MEMORY function can only receive and save RDS program.

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When pressed long, AF mode is converted to REGION ON/OFF mode.

REG ON:

AF switching or PI SEEK is implemented to the station which have all PI codes are same as current station. (PI CODE is checked when AF CHECK in progress)

REG OFF:

The regional code in the format of PI code is ignored when AF switching or PI SEEK is implemented. (PI CODE and COVERAGE AREA is not checked when AF CHECK in progress)

13. AS/PS BUTTON (Auto-storage /Preset scan)

During radio mode:

- 1) When pressing and holding for more than 1 second, the radio searches from the current frequency and checks the signal strength level until 6 stations are found. And then the 6 stations frequency are preset to the corresponding preset memory numbered bank. The auto-storage operation is implemented in each selected band. When the auto-storage operation is finished, the radio execute the Preset scan.
- 2) When pressed briefly, the radio searches for each preset station in the current band and holds at that preset number for 5 seconds while releasing mute, and then searches again.

During SD/MMC or USB mode:

Press AS/PS button, it will activate TRACK SEARCH mode. The LCD will display TRK 0/00/000 (dependent on the total number of tracks in the SD card or USB stick) and flash the 0 on the biggest digit position. Then press the VOL+ or VOL- button to select a number on the flashing digit position from 0 ~9. Then press AS/PS button to confirm the number and flash the 0 on next smaller digit position. With the same means, select the number on the flashing digit position with VOL+/- buttons. After finishing selecting the numbers on all digits position, press SEL button to play the track of the selected serial number.

14-19. PRESET STATION MEMORY AND TOP/>||, INT, RPT, RDM BUTTONS

a) During radiomode:

When pressed briefly, these buttons select a preset station directly. If the six buttons are pressed for more than 2 seconds, the station currently being listened to is memorized into the selected preset button.

b) During SD or USB mode:

Press the TOP/>|| button briefly to interrupt the playback of the SD card or USB stick.

Press again to resume normal playback.

Press the INT button to play the first 10 seconds part of each track, and the LCD will display INT ON.

Press again to stop scan, while the currently selected track will be played, and the LCD will display INT OFF.

Press the RPT button to play the current track repeatedly, and the LCD will display RPT ONE.

Press again to cancel this function, and the LCD will display RPT OFF.

Press the RPT button twice continuously to play the tracks in the current folder repeatedly and the LCD display will show RPT ABM.

Press the RDM button to play all tracks in random order, and the LCD will display RDM ON.

Press again to cancel this function, and the LCD will display RDM OFF.

Press the radio preset button 6 and 5 button to move up and down 10 tracks at a time. When the remaining total tracks are less than 10, then both buttons are inactive.

20. AUX INPUT JACK

Press the mode button to select auxiliary input playing mode. You can connect any matched external audio device to the auxiliary input jack. Use the volume control to adjust volume.

21. USB SOCKET

When needing to play the file in the USB stick, insert the USB stick into the USB socket. The system will change into the USB mode automatically, and then play the first file in the USB.

22. SD /MMCCARD SLOT

When you need to play the files in an SD/MMC card, insert the SD/MMC card into the SD/MMC card slot. The system will change into SD/MMC mode automatically, and then play the first file from the SD/MMC card.

Note:

When SD/MMC card and USB stick are both inserted into their slot or socket, the system will change into the playback mode of the latter one.

23. FLASHING LED

When the front control panel is removed this indicator flashes.

24. RESET BUTTON

Before operating the unit for the first time, or after replacing the car battery or changing the connections. You must reset the unit.

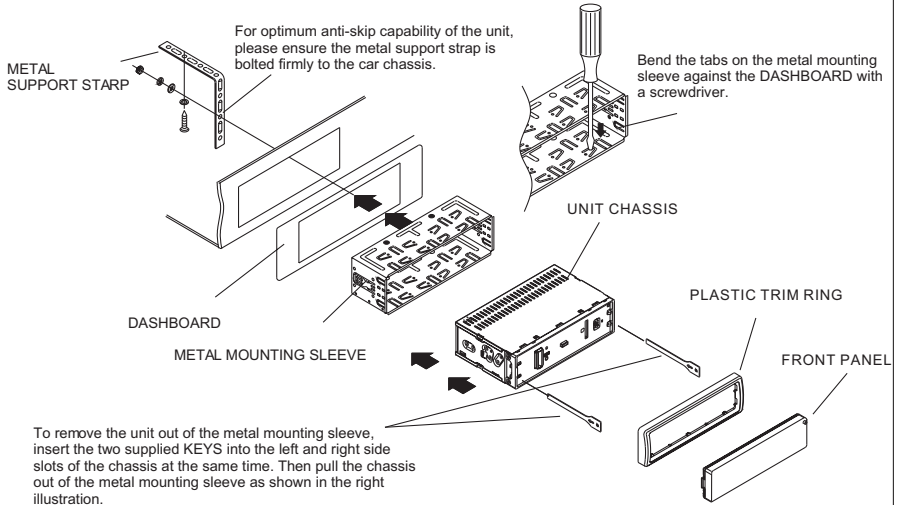
Press this button with a cuspidal object. This operation will erase the clock setting and some stored contents.

INSTALLATION METHOD

This is an anti-theft installation method.

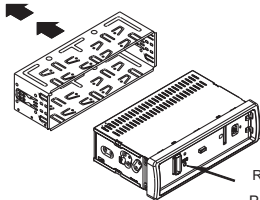
The main unit has a METAL MOUNTING SLEEVE.

Please connect the wiring, eg, the Power Supply, the Speakers and the Antenna according to the requirements of this Instruction Manual, then install the metal mounting sleeve into the car as per the diagram illustrated below.

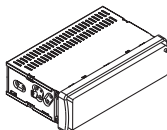
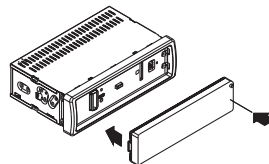


NOTE

Before mounting and operating the player, remove the metal mounting sleeve illustrated by the arrows.



Push this RESET button with a sharp-pointed object to restore any distortion in sound or operation problems.

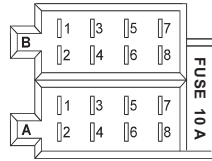
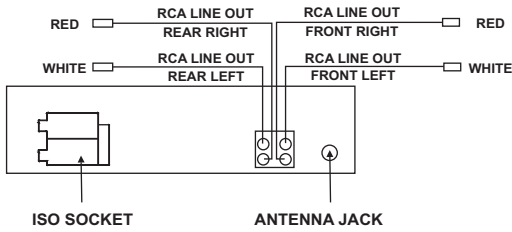


TROUBLE SHOOTING

Before using the check list please make all the connections first.
If you still have questions after going through the checklist, please consult your local customer service representative.

Common Symptoms	Cause	Solution
There is no power.	The car ignition is switched off.	If the power supply is properly connected to the car accessory, switch the ignition key to " ON " or " ACC " .
	The fuse has blown.	Replace another fuse according to the wiring diagram.
There is no sound.	The volume control is set too low.	Turn up the volume properly.
	The device has not been correctly connected.	Check the power and earth connection according to the wiring diagram.
The operation keys do not work	The built-in microcomputer is not operating properly due to noise	Switch the device off and on again. Or press the RESET button to resume the program.
No radio reception.	The antenna cable is not connected.	Insert the antenna cable firmly into the antenna socket of the device.
In automatic search mode the radio does not stop at a transmitting station.	The transmission signals are too weak.	Tune in to a radio station manually.

WIRES CONNECTION



CONNECTOR A

- 1.
- 2.
- 3.
4. Memory +12V
5. Auto Antenna Output
- 6.
7. 12V (To Ignition Key)
8. GROUND

CONNECTOR B

1. Rear Right Speaker (+)
2. Rear Right Speaker (-)
3. Front Right Speaker (+)
4. Front Right Speaker (-)
5. Front Left Speaker (+)
6. Front Left Speaker (-)
7. Rear Left Speaker (+)
8. Rear Left Speaker (-)

SPECIFICATION

GENERAL

Supply Voltage	DC 12V. Negative Ground
Current Consumption	Max.10A
Power Output	25Watts X 4(measured at DC 14.4V)
Number of channels	2 STEREO channels.
Unit Dimensions	178[W] X 101.5[D] X 50[H] mm.

FM SECTION

Frequency range	87.5MHz -108MHz
Effective sensitivity	3uV.
I.F Frequency	10.7MHz.

AM SECTION

Frequency range	522KHz - 1620KHz
Effective sensitivity	40dB.
I.F Frequency	450KHz

RCA LINE OUT

Output	1200mV @ MAX.
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SD/MMC or USB PLAYBACK

System	MP3 audio system.
Frequency characteristics	20Hz -100Hz <=5dB 10KHz-20KHz <=5dB.
Signal to noise (SD/MMC & USB)	50dB [1KHz] .