

CONGRATULATIONS!	SPECIFICATION	
Congratulations on your purchase of this Sound Storm CD Receiver.	GENERAL	
We hope you enjoy using this product and encourage you to always listen at a moderate, safe sound level to avoid any possible hearing damage or loss. If you listen to excessively loud sound over time, your hearing can adapt to higher volumes and what sounds "normal" to you may be quite harmful and can cause you to have permanent hearing loss. So please practice "safe sound" and always listen at moderate sound levels only.	Supply Voltage Current Consumption Power Output Number of channels Unit Dimensions	DC 12 V. Negative Ground Max.7A 50Watts X 4. 2 STEREO channels. 178[W] X165[D] X 50[H] mm.
Start with your volume control at the lowest setting, and slowly increase the level until you can hear it comfortably and clearly, free from distortion. Once you have established this comfortable sound level, leave it there.	FM SECTION	
ABOUT THIS MANUAL	Frequency range Effective sensitivity I.F Frequency	87.5MHz -108MHz 3uV. 10.7MHz.
Please read this manual thoroughly and save it for future reference. This CD receiver incorporates manual sophisticated functions which may enhance your listening experience. Without reading the manual, you might miss a few, so please take the time to read and understand all the product's	RCA LINE OUT (OPTION)	
capabilities.	Output	5 Volt @ CD MAX.

capabilities.

A NOTE ABOUT CD-R/CD-R/W

In addition to commercially-recorded audio CD's, this unit can play CD-R and CD-R/W discs. In some cases, particularly when recorded on older CD burners, some CD-R and CD-R/W discs may not play. Also, whenever you are recording a CD for playback in this receiver, it is recommended that you record at 24x or slower speed for CD-R and 4x or slower for CD-R/W to achieve higher signal quality and better playback performance.

CD PLAYER

System

MP3 Audio System. MP3, CD, CD-R, CD-RW Disc 10KHz-20KHz ≤ 5dB.

Frequency characteristics

20Hz-100Hz ≤ 5dB

S/N Ratio to CD

50dB [1KHz]

Suitable CDs

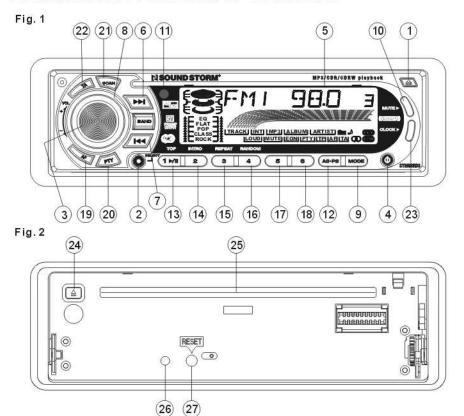
TROUBLE SHOOTING

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.
The CDs cannot be loaded.	A disc is inside the player.	Remove the disc in the player then put a new upward
The CDs are loaded only halfway into the CD tray.	The transport screws have not been removed.	Remove the transport screws before using.
The device does not work correctly (EJECT, LOAD, PLAY)	The disc is inserted upside-down.	Insert the compact disc with the label facing upward
	The surface of CD is extremely dirty or it is damaged.	Clean the CD or try another CD, if this works correctly, the first CD is properly damaged.
	Temperature inside the car is too high.	Cool off until the ambient temperature returns to normal
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.
	2.The front panel is not properly installed.	2. Reinstall the front panel
The sound of the CD player skips	The installation angle is more than 30 degrees	Adjust the installation angle to less than 30 degrees
	The surface of the road is uneven.	Wait until the road becomes smoother before playing the CD.
	The surface of CD is extremely dirty or it is damaged.	Clean the CD or try another CD, if this works correctly, the first CD is properly damaged.
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 trans- mitting station.	The transmission signals are too weak.	Tune in to a radio station manually.

LOCATION AND FUNCTION OF CONTROLS



1. OPEN BUTTON

To remove and/or insert a CD, press the OPEN button to fold-down the front panel. To insert a CD, place it in the slot. To eject a CD, press the EJECT button.

If you wish to remove the front panel, once it is folded down in this manner, pull the front panel forward to remove it.

2. SELECT BUTTON

Push this button to step through the various adjustment parameters, such as VOLUME, BASS, TREBLE, etc. When you stop at a given adjustment parameter, the unit will wait for approximately 5 seconds for you to enter or change a value with the VOL knob, and then return to the tuner or CD playback mode.

3. VOLUME KNOB

a) During tuner or CD playback, turning this knob well increase or decrease the volume level. It also serves as the encoder for adjusting the various parameters accessed by pressing the SELECT button. b) Pressing and holding the SELECT button for more than 2 seconds will cause the unit to scroll through the following functions. If you wish to change a function's setting, select it and use the VOLUME knob to change to another setting.

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 not the same station(PI) as 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(60 seconds) or RETUNE LONG(90 seconds), the radio start to retune to next same PI station. When same PI station does not catch in 1 cycle 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) is output.

When newly tuned station does not have TP information for 5 seconds, beeps come out. When TP information gets lost at the current station for retune time, the beep sound is outputted.

When newly tuned station has not RDS signal, PISEEK is suppressed somewhat.

PISOUND/PIMUTE:

PI SOUND mode: if a car cruises that critical area back and forth, an oscillation phenomenon can be occurred, because the different PI code can be receive from the same AF. When the different PI sound (DIP) is heard once in a while, the different PI sound will be heard for less than 1 second.

 ${\sf PIMUTE}$ mode: under above same situation, a mute sound will be heard for less than 1 second.

RETUNE L/RETUNE S:

The initial time of automatic TA search or PI SEARCH mode is selected. When PI information is not caught for retune time, the radio start to retune to next same PI station.

When same PI station does not catch 1 cycle search, the radio goes to last station and

waits for 4-5 minute until PI code is received

RETUNE L mode: selected as 90 seconds.

RETUNE S mode: selected as 60 seconds.

MASK DPI/MASK ALL:

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

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

BEEP: The setting choices are:

BEEP 2ND: Unit beeps when a two-function button is pressed for one second, indicating that the secondary function for the button has occured.

BEEPALL: A beep occurs when any button is pushed.

BEEP OFF: Beeping is disabled for all buttons.

SEEK: The setting choices are:

SEEK 1: Press and hold the << or >> button. The radio tunes up or down and stops seeking when station with a strong signal is found.

SEEK 2: Press and hold the << or >> button. The radio scans until you release the button and stops on the next available strong station.

PRECAUTION OF DISC PLAY:

Cleaning the CD:

Before playing a CD, wipe it off with a clean, dust-free cleaning cloth. Wipe the disc in the direction of the arrow.

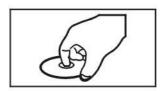


Always insert the CD with the label side facing upwards. If the CD is inserted with the printed side facing downwards, the device may be damaged.



Note: If there is already a CD in the CD slot, do not try to insert a second CD. This may damage the device.

Always hold CDs by the edge. In order to keep the CD clean do not touch the surface Pull out the CD as shown below.



Do not attach any sticker or adhesive tape on the CD.

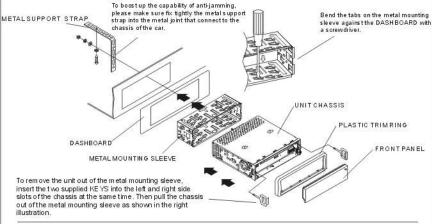
Do not expose the CD to direct sunlight or sources of heat such as heating vents. Do not leave CDs in a car if it is parked in direct sunlight as that will lead to a considerable rise in the temperature inside the car.

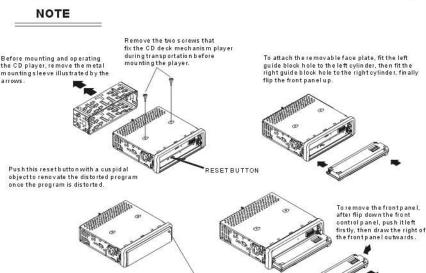
Note: Do not use any solvents such as petrol or thinning agents. Commercially available cleaning substances or antistatic spray. This will damage the device.

INSTALLATION METHOD

This diagram shows the anti-theft installation method. With this installation, the main unit is installed within 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.





DSP (OFF/POP/ROCK/CLASSIC/FLAT)

When you have selected DSP, use the VOLUME knob to select the EQ preset you prefer.

LOUD OFF/LOUD ON

SUBW OFF/ON(with subwoofer output)

STEREO/MONO

DX/LOCAL

VOL LAST/VOL ADJ

This setting controls the volume level you hear when the unit is first turned on. You can select either VOL LAST (the volume setting when the unit was last turned on) or VOL ADJ (a preset volume level).

To enter the volume level for VOL ADJ, simply adjust the volume to the desired level when in this programming mode.

ESP10/ESP40: This setting offers you to select time of electronic shock protection. There are 2 modes of 10 seconds or 40 seconds.

4. POWER ON/OFF

When the CD receiver is turned off, pressing any button (except OPEN or EJECT) will turn on the unit. It will also power on when a disc is inserted. To turn the unit OFF, press and hold the POWER button for about one-half second or longer.

5. LCD Display

6.7. TUNE, SEEK, TRACK, SKIP UP / DOWN BUTTONS

a. In RADIO (TUNER) MODE:

Press and quickly release the I<< or>>>I button to manually tune up or down to a desired station in a step by step manner. Press and bold either button to allow the unit to scan up or down to locate the next strong station on the dial.

b. During CD/MP3 playback, press and quickly release the >>I button to play the next track. Press the I<< button to restart playing the currently playing track. Press the I<< button twice to play the previous track. Press >>| or |<< button hold to skip forward or backward.

. BAND BUTTON

This receiver permits you to have station 18 FM presets, arranged in three groups (FM1, FM2 and Fm3).

Use the BAND button to scroll through these five groups or to change the reception from FM tuning bands.

In CD/MP3 format-mixed disc playback mode, long press BAND button, it will change from one mode to another mode.

Before inserting or ejecting disc, press the OPEN button to flip down the faceplate. 9. MODE BUTTON When a disc is present in the CD slot, pressing the MODE button will allow you to change to RADIO mode (and back). The LCD display information changes with the mode (please note: when no disc is present in the unit, this button does not provide a function).

10. MUTE BUTTON

Press the MUTE button to silence the receive. Press again to return the receiver volume to the level at which you were last listening.

11. INFRARED REMOTE CONTROL SENSOR

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

During radio mode:

- When pressed and held for several seconds, the tuner will search and store the first six strong stations as presets.
- 2) When you press the button once it will scan the presets for 5 seconds and then move to the next station.

MP3 SEARCH MODES;

This unit allows you to search for songs by three different methods: TRACK SEARCH, DIRECTORY SEARCH or FIRST CHARACTER SEARCH. In all modes, you use the VOLUME knob to make choices, and the SELECT button to enter these choices.

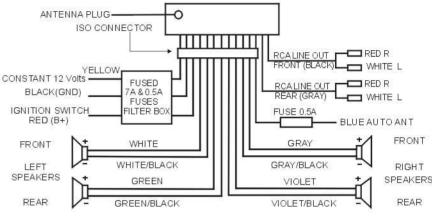
To select the desired search mode, press the AMS button to step through the three methods and stop when the desired search method name is displayed.

In TRACK SEARCH mode, a three digit number will be displayed, indicating the number of tracks the unit has detected are present on the disc. By changing this number, a particular track can be identified. After the total track count is displayed, turning the VOLUME knob will change the number in the "hundreds" place. To select this number, press SELECT. Turning the knob again changes the number in the "tens" place. After pressing SELECT again to confirm this number, repeat for the "ones" place. Pressing SELECT one last time will start playback of this track.

In DIRECTORY SEARCH mode, the root folder will be visible in the display. Use the VOLUME knob to move to the desired folder. Press the I<< or >>I to move to the desired track in the folder, and SELECT to play this track.

In FIRST CHARACTER SEARCH mode, the display will first show the first letter used in the name of the first of your tracks when listed alphabetically. To select a different first letter, turn the VOLUME knob until you reach the right one. Use the I<< and I>> buttons to move through the various tracks available starting with that letter. Press SELECT to begin play of a desired track.

WIRING DIAGRAM



Note:

- 1. Make sure use ONLY speakers with 4 ohm load impedance.
- 2.Do not allow the auto antenna wire and ground touch each other.

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Replacing the Battery from the Remote Controller:

MAINTENANCE OF REMOTE CONTROLLER

Before using the remote controller, pull out the insulating patch. This patch was installed to insulate the battery from draining until ready to use.

1) Remove the battery holder by pressing the locking tab with your thumb

- 3) Gently push in the holder until securely locked into place.
- Battery leakage may cause damage to the unit.

Do not recharge, disassemble or dispose of in fire.

Mode Button

13. SCN Button

15. PTY Button

11. Tune/Seek Up And

12. Tune/Seek Down And

Track Skip Up/FF Button

Track Skip Down/REW Button

14. Clock Display/Setting Button

BATTERY INFORMATION:

Lithium Battery: CR2025 3V

and pulling it out.

MARNING:

Battery Life: Approximately 6 months.

To avoid the risk of accident, keep batteries out of reach of children.

2) Replace the battery with the same type and the " + " side facing up.

CD Track TOP/M/Radio Preset 1

17. CD Track INT/Radio Preset 2

18. CD Track RPT/Radio Preset 3

19. CD Track RDM/Radio Preset 4

20. Radio Preset 5

21. Radio Preset 6

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normal program.

During FM mode, when AF is on, SEEK, (SCAN), AUTO-MEMORY function

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

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

5 (-10) or 6 (+10) button.

Segment on: AF switching mode on, and has RDS information. Segment flashing: AF switching mode on, but RDS information is not

switching mode is displayed by AF segment in display. Segment off: AF switching mode off.

When pressed short, AF switching mode is selected and the state of AF

signal strength of current station, from a few minute for 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

19. AF BUTTON

Press again to cancel random playback mode.

button for more than one-half second will cause the songs in a particular folder to repeat until a second press of the RPT button). To play all the tracks on a disc in random order, press the RDM button.

(In MP3 mode, you can press and hold this button for more than one-half

To move up or down ten tracks at a time (in either CD or MP3 modes), use the

second to initiate random play of all tracks in a particular folder).

Pressing RPT will cause the currently playing track to repeat until cancelled by a second press of the RPT button. (In the MP3 mode, pressing and holding this

In CD mode, press and release the INT ("Intro") button to play the first 10 seconds of each track. When you hear a track you like and want to play the entire track, press INT again. (In MP3 mode, the INT function plays the first 10 seconds of each track within a particular folder.)

the same button later. Please note that you can set FM presets in three different groups (FM1, FM2 and FM3). CD MODE: The TOP/>II button is used to either PAUSE the playback (when you press and release quickly) or to begin playing the first track on the disc (press and hold for more than 2 seconds).

13-18. PRESET STATION MEMORY AND TOP/ >|| , INT, RPT, RDM BUTTONS

The six PRESET buttons are used to program (and later, to select) memorized

radio stations. To create a preset, simply tune the radio to a desired station and press and hold the button for about 2 seconds. To play it later, press and release

RADIO MODE:

NEW FREQUENCY is displayed for 1-2 second. Because the mute time of AF switching or checking time is very short, it is almost inaudible in case of

can only receive and save RDS program.

codes are same as current station. (PI CODE is checked when AF CHECK in

time is displayed, you can flash the time by long pressing CLOCK button, then adjust the hour and minute by rotating the VOLUME knob.

24. EJECT KEY

When the unit is turned on and a disc is present in the player slot, press the EJ button to eject the disc.

25. CD SLOT

26. FLASHING LED

When the front control panel is removed this indicator flashes.

27. RESET BUTTON

After installation, or anytime the unit is disconnected from power, you may need to reset the unit. Use a small pointed object (such as a pen) to press this button. Doing so will erase the clock setting and some of the other stored settinas.

20. PTY BUTTON

progress)

REGIONAL MODE ON:

REGIONAL MODE OFF:

AF CHECK in progress)

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 PTY MUSIC or PTY SPEECH is on, the previous PTY program and PTY word 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 return to previous normal radio and PTY word disappear.

Press it shortly and repeatedly to select one of the following mode:

PTY MUSIC group- - PTY SPEECH group- - PTY OFF

AF switching or PI SEEK is implemented to the station which have all PI

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

21. SCAN BUTTON

Press the SCAN button to initiate scanning of the radio band. When a strong signal is detected, its frequency will be displayed in a blinking pattern for five seconds. To select this station, press SCAN again. If you do not select the currently blinking station frequency, after 5 seconds the radio will continue scanning until the next strong signal is found.

22. TA BUTTON

When press the button, it is activated as TA mode on or off. When TA mode is on (TA is displayed on LCD), it will begin to seek TA station and TASEEK will be displayed on LCD for a while. When traffic announcement is transmitted:

- 1) If the unit is in CD mode, it will switch to radio mode temporarily.
- 2) Temporarily switch over to an EON linked station when EON detects a traffic announcement on that other program, and TP will be displayed on LCD
- 3) 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 previous volume is valid.
- * TA interruption function: The current traffic announcement is canceled 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. 23. CLOCK BUTTON

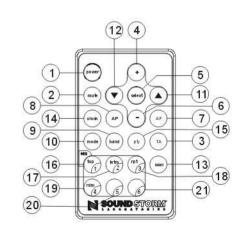
To view the current time, press the CLOCK button, where it will display for 5 seconds and then revert to the current unit mode. During the period when the

NOTE:

Before you use the remote control, be sure to turn on the unit by pressing the POWER button on the front panel.

OPERATION OF REMOTE CONTROLLER:

- 1. Power On/Off.
- 2. Mute Button
- 3. TA Button
- 4. Level/MENUUP Button
- 5. SEL/MENU Button
- 6. Level/MENU Down Button
- 7. AF Button
- 8. A.P Button
- 9. Band Button



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