SOUND STORM
LABORATORIES

CD/MP3/CD-R/CD-RW PLAYER 4x60 WATTS **SMP3-100R**

User's Manual

SOUND STORM®
LABORATORIES

SMP3-100R

CONTENTS

INSTALLATION

PRECAUTIONS
- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.
- Be sure to remove the front panel before installing the unit.

Mounting angle adjustment
Adjust the mounting angle to less than 20°.

MOUNTING EXAMPLE
Installation in the dashboard

1 Release screw and bracket

**2** 182mm / 53mm

3 TAP
Bend these claws, if necessay

4
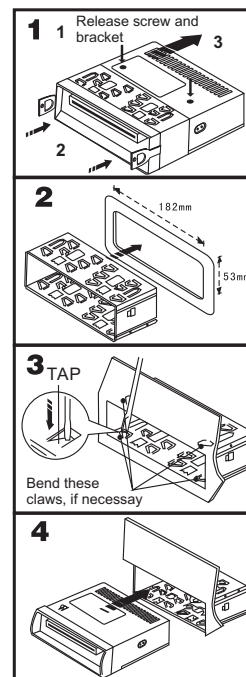
Note: Keep the release key in the safe place as you may need it in future to remove the unit from the car.

Detaching and attaching the front panel
The front panel of this unit can be detached in order to prevent the unit from being stolen.

DETACHING THE FRONT PANEL
Before detaching the front panel, be sure to press the PWR button OFF first.
Pull out the panel towards you in order to detach completely the panel from the main unit.Refer to instruction.
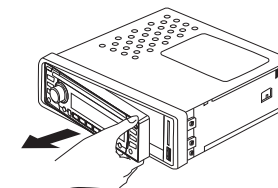
ATTACHING THE FRONT PANEL
Make sure the front panel is the right way up when attaching it to the unit as it cannot be attached upside down. Bring side B of panel to side A of main unit.Insert the panel in and push until it clicks.
Panel is attached.

Rear of the front panel
Main unit
A   B
Front Panel
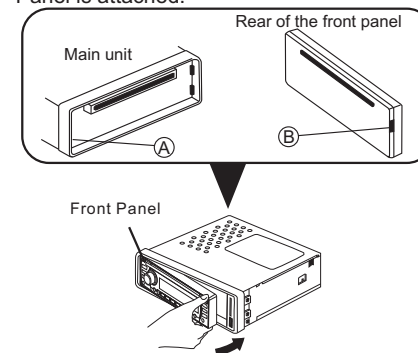
Notes:
Do not press the front panel hard against the unit when attaching it. It can be easily attached by pressing it lightly against the unit.
When you carry the front panel with you, put it in the supplied front panel case.
Do not press hard or give excessive pressure to the display window of the front panel when attaching it to the unit.

INSTALLATION

TO SUPPORT THE UNIT
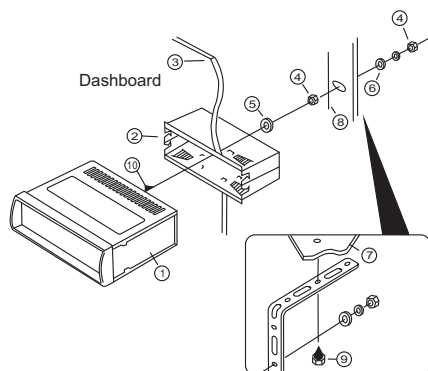
Dashboard

1. UNIT
2. RELEASE CASE
3. DASH BOARD
4. HEX NUT
5. LOCK WASHER
6. PLAIN WASHER
7. CAR BODY
8. REAR SUPPORT STRAP
9. TAPPING SCREW
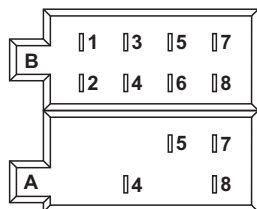10. M5 X 15 HEX BOLT

ISO CONNECTOR

RCA Jack Line Out (Front)
    : Red (right)
    : White (left)

Line Out(Rear)
    : Red (right)
    : White (left)

RCA Jack Line In
    : Red (right)
    : White (left)

CONNECTOR A
4. MEMORY + 12V
5. AUTO ANTENNA OUTPUT
7. +12V (TO IGNITION KEY)
8. GROUND
Note: (connector A no. 7) must be connected by car ignition key in order to avoid that car battery becomes weak when the car will be not used for long period.

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 (+)
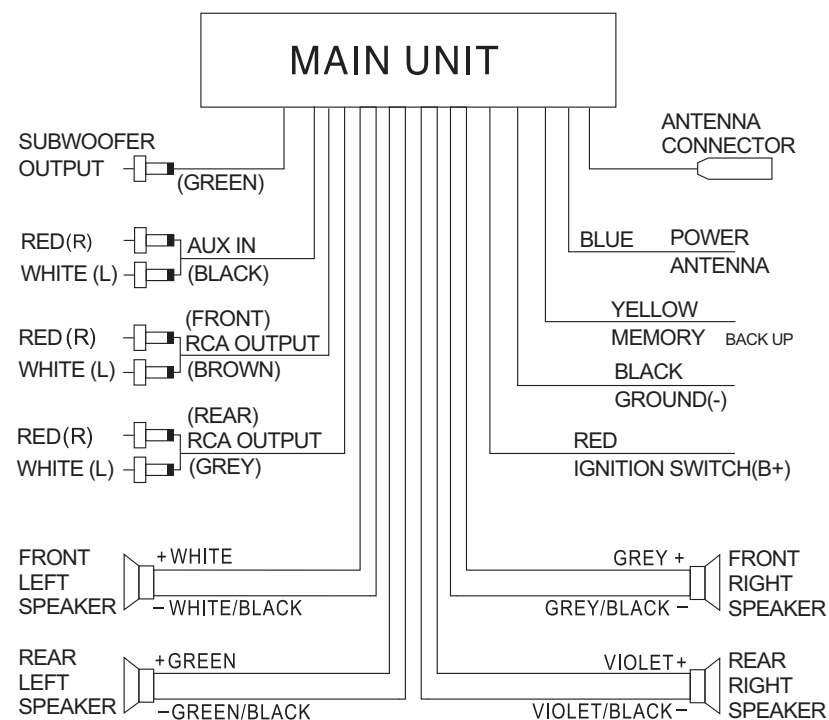8. REAR LEFT SPEAKER (-)

Maintenance
FUSE REPLACEMENT
If the fuse blows, check the power connector and replace the fuse. If the fuse blows again after the replacement, there may be an internal malfunction. In this case, consult your nearest repairing center.
Warning
Use the specified amperage fuse for each lead. Use of a higher amperage fuse may cause serious damage.

WIRING CONNECTION

ELECTRICAL CONNECTIONS

SUBWOOFER OUTPUT (GREEN)

RED(R) / WHITE (L) — AUX IN (BLACK)

RED(R) / WHITE (L) — (FRONT) RCA OUTPUT (BROWN)

RED(R) / WHITE (L) — (REAR) RCA OUTPUT (GREY)

FRONT LEFT SPEAKER +WHITE / −WHITE/BLACK

REAR LEFT SPEAKER +GREEN / −GREEN/BLACK

ANTENNA CONNECTOR

BLUE POWER ANTENNA

YELLOW MEMORY BACK UP

BLACK GROUND(-)

RED IGNITION SWITCH(B+)

GREY + / GREY/BLACK − FRONT RIGHT SPEAKER

VIOLET+ / VIOLET/BLACK − REAR RIGHT SPEAKER

GENERAL CONTROLS

POWER ON/OFF
By pressing this key, the unit is switched on and off.
This unit is turned on by pressing any key.

PANEL RELEASE BUTTON
Press the ⏏ button and the right-hand section of the panel will release.

BAND SELECTOR SWITCH
Push this switch to select the desired band. Selection is made in regular sequence as FM-AM.

'SCAN' AUTOMATIC TUNING CONTROL
This key is operated as RADIO SCAN. The operation is similar as normal search but different thing is holding 5 seconds on every station detected in RADIO SCAN mode.
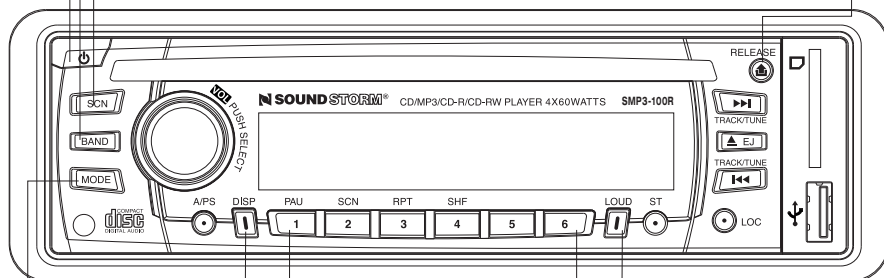
DISPLAY BUTTON (Set the Clock)
Selects radio frequency or clock display.
To set the clock:
1. With clock display selected, hold down (DISP) button until clock display starts flashing.
2. Rotating (VOL) to change minutes, (VOL) to change hours.
3. Press (DISP) button to start clock.

LOUDNESS BUTTON
Press this button to boost the bass and treble response. Push button again to return to normal operation. This function is useful when listening at low levels. Loudspeakers are inefficient at low power levels and will tend to sound flat. The loudness control will boost the bass and treble response thus giving a more lively performance.
While this function is operating, the display shows "LOUD ON"

PRESET STATIONS
Six numbered preset button store and recall stations for each band.
Storing a station:
1. Select a band (if needed)
2. Select a station
3. Hold a preset button longer than one second. Preset station number appears in the display when station is saved.
Recall a station:
1. Select band (if needed)
2. Press a preset button for less than one second to select stored station.

MODE BUTTON
By pressing this key, user can select. AUX/TUNER/CD-MP3/USB or MMC/SD mode.

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GENERAL CONTROLS

AUTOMATIC OR MANUAL TUNING (FREQ UP ►►I OR FREQ DOWN I◄◄)
(A) RADIO MODE
When pressed for less than 1 second, these keys operate as manual tuning mode.
When pressed longer than 1 sec., they are operated as SEEK tuning mode.
If the keys are not pressed for 3 seconds, they will return to SEEK mode again.
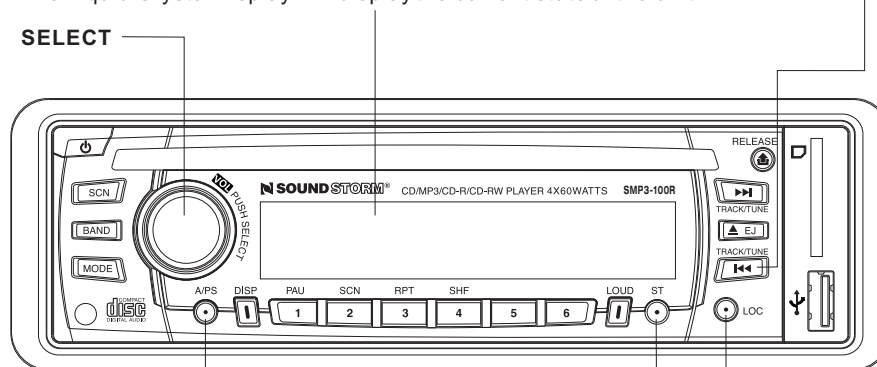*(B) CD PLAYER MODE*
When pressed for less than 1 second, they will operate as TRACK UP or TRACK DOWN mode.
When pressed longer than 1 sec., they will operate as CUE or REVIEW mode.

LCD DISPLAY
The Liquid Crystal Display will display the current state of the unit.

SELECT

STEREO/MONO SELECTOR
This function will only affect the FM reception. Press this button if the FM reception becomes noisy/hissy. If the station being received is in stereo, it will now be played in mono.
Press this button again to return the receiver to normal reception.

LOCAL/DISTANT BUTTON
Press Local/Distant (LO/DX) button for listening to weak stations. "LOCAL" indicator will appear on the display. Press this button again (Distant mode) for normal operation.

AUTOMATICALLY STORE STATIONS
Select six strong stations and store them in current band.
1. Select a band (if needed)
2. Hold **A/PS** button for more than three seconds. The new stations replace stations already stored in that band.
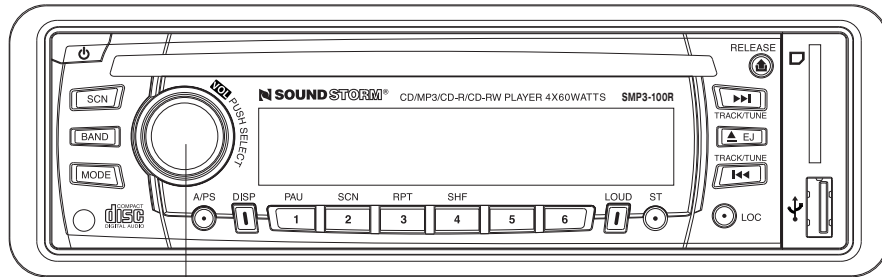**Preset Scan**
Scan stations stored in current band
1. Select a band (if needed)
2. Touch **A/PS** for more than one second but less than three seconds. Radio pauses for five seconds at each station. Touch **A/PS** again to stop scanning when desired station is reached.

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VOLUME UP/ DOWN

Turning the VOL knob Right or Left, you can adjust VOL/BASS/TREB/BAL/FAD. To select other functions, press the SEL button shortly until the desired functions is shown on the display. Figure 1 shows how control functions are selected using the SEL button.
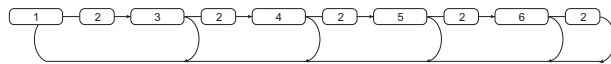

Fig. 1 Selection of sound control functions

1. VOL   2. SEL   3. BAS   4. TRE   5. BAL   6. FAD
Turning the VOL knob Right or Left. Increase or decrease the volme by turning ⊙ or ⊙
These buttons can be used to adjust the BASS, TREBLE, BALANCE and FADER.

AUDIO DSP CONTROLS (2)
When press the SEL button for more than 2 seconds, it is activated as selecting mode of these function.

ESP MODE (2)
When press the SEL button for more than 2 seconds, it is activated as 12 sec. or 45 sec. of ESP mode can be selected.

MULTI CD SECTION MODE (2)
When press the SEL button for more than 2 seconds, it is activated as selecting mode of these function.

CD MULTI ON/OFF mode is selected by ⊙ or ⊙ key. CD MULTI ON: Read multi section CD. CD MULTI OFF: Read first section only.

BEEP MODE (2)
When press the SEL button for more than 2 seconds, it is activated as selecting mode of these function.

BEEP ON: BEEP sound can be heard from speaker when the buttons are pressed.

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SEEK MODE (2)
When press the SEL button for more than 2 seconds, it is activated as selecting mode of these function.
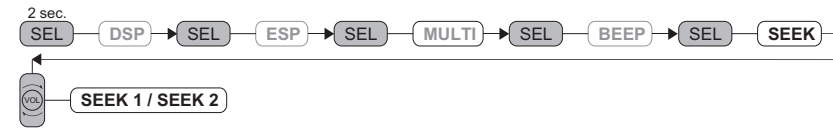
SEEK 1: When SEEK 1 mode is activated, AUTO SEEK SCAN is stopped when station is detected even user still push SEEK button.
SEEK 2: Auto SEEK SCAN is not stopped even station is detected if user push SEEK button. When release this SEEK button, then stop when station is defected.

CONTROLS BEHIND FACEPLAYTE
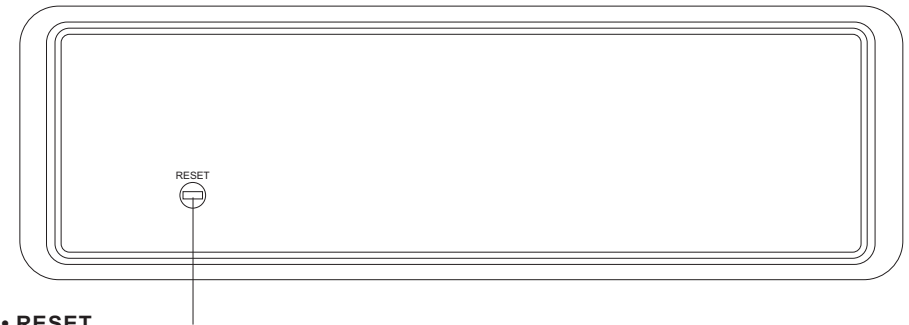
• **RESET**
  Reset button is placed on the housing.
  The reset button is to be activated for the following reason:
• Initial installation of the unit when all wiring is completed.
• All the funciton button do not operated.
• Error symbol on the display.

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CD CONTROL LOCATION OF PARTS

PAUSE BUTTON
Press to pause CD playback. Press
again to resume playback.

INTRO BUTTON (Preview all Tracks) 'INT'
When this button is pressed, 'INT ON'
indication is displayed and the first several
seconds of each track of the disc is played.
Press again to stop intro and listen to track.

REPEAT BUTTON 'RPT'
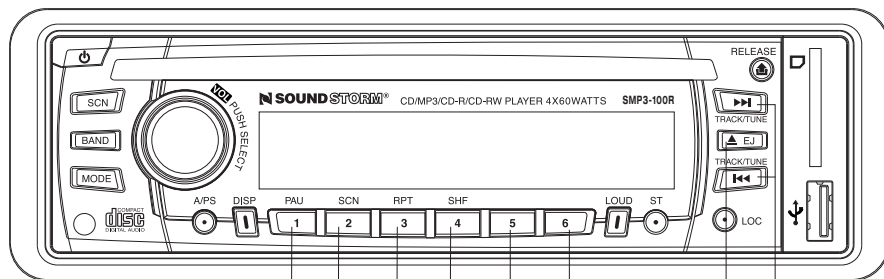When this button is pressed, 'RPT ON' indication is
displayed and the selected track will be continually
repeated until the Track repeat mode is cancelled by
pressing 'RPT' button again.

RANDOM BUTTON 'RDM'
When this button is pressed, 'RDM ON' indication is
displayed and each track on the disc is played in random
order instead of normal progression. To cancel RANDOM
mode, press 'RDM' button again.

10 TRACK UP/DOWN SELECT: (In case of MP3 files)
M5: 10 Track down / M6: 10 Track up

CD EJECT BUTTON
Press the EJECT button to remove the CD. The receiver will
automatically switch to radio mode.

TRACK/SEARCH BUTTON
FORWARD AND REVERSE TRACK SEARCH
Press and release to advance to next track or to return to the beginning of the
current track (track number will be displayed.) Press and hold to fast forward or
reverse. Play will begin at the point when you release the button.

HOW TO SELECT MP3 FILES

1. Searching Track:
  • Press "A/PS", then search track is activated.
  • Press "SEL", then the first digit will flash.
  • With "VOL / VOL " knob, select first digit desired.
  • Press "SEL", then the first digit is fixed and second digit will flash.
  • With "VOL / VOL " knob, select 2'nd 3'rd respectively.
 • Then automatically the song selected will start.
2. Searching File Name:
  • Press "A/PS" twice, then file search is activated.
  • Press "SEL", then the first directory is displayed.
  • With "VOL / VOL " knob, you can select the desired directory.
  • Press "SEL" again, then the directory is fixed and the first file name is displayed.
  • With "VOL / VOL " knob, you can select the file you want.
  • Press "SEL", then the song selected will start.
3. Searching Character:
  • Press "A/PS" 3 times, then character search mode is activated.
  • Press enter "SEL" button, then "A" character is displayed.
  • With "VOL / VOL " knob, you can select the desired letter.
  • Press enter "SEL" key longer than 2 sec.
  • The song with the same character you selected is displayed.
  • With "VOL / VOL " knob, you can select the desired song.
  • Press enter "SEL" key, then the song selected will start.

Connecting it to Portable MP3 Player
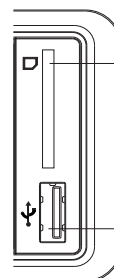
MULTI-MEDIA CARD (MMC) / SD CARD SLOT
Support MP3 ID3 format music only.

USB Port
Using USB cable to connect Your Portable MP3 Player.
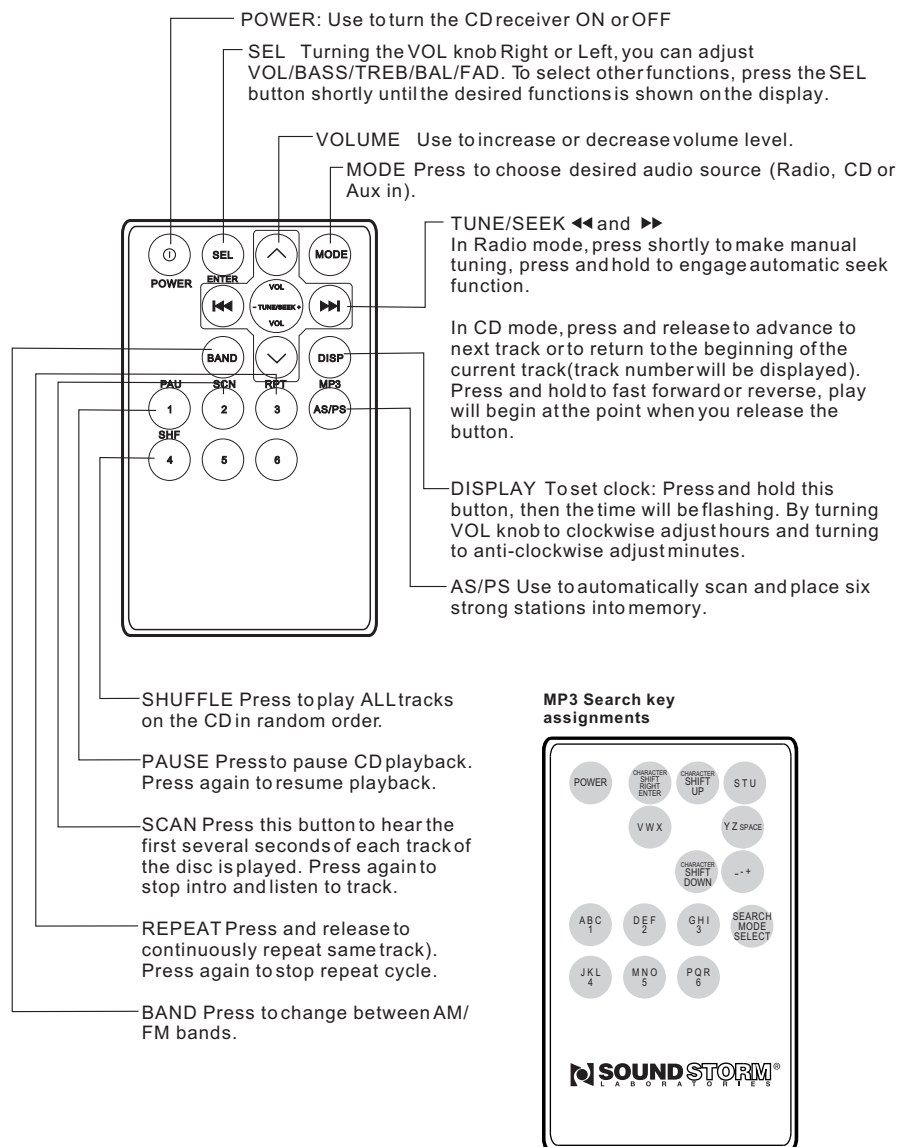
* IMPORTANT INFORMATION:
*This car radio has been designed following the latest USB
technology.
The variety of memory stick available in the market, however,
doesn't allow to make a product surely and fully compatible with
all USB products of today and tomorrow.*

*Proper data transfer between the car radio and the removable
memory is guaranteed only with the USB memory driver stick.*

OPERATION

REMOTE CONTROL

POWER: Use to turn the CD receiver ON or OFF

SEL   Turning the VOL knob Right or Left, you can adjust VOL/BASS/TREB/BAL/FAD. To select other functions, press the SEL button shortly until the desired functions is shown on the display.

VOLUME   Use to increase or decrease volume level.

MODE Press to choose desired audio source (Radio, CD or Aux in).

TUNE/SEEK ◄◄ and ►►
In Radio mode, press shortly to make manual tuning, press and hold to engage automatic seek function.

In CD mode, press and release to advance to next track or to return to the beginning of the current track(track number will be displayed). Press and hold to fast forward or reverse, play will begin at the point when you release the button.

DISPLAY To set clock: Press and hold this button, then the time will be flashing. By turning VOL knob to clockwise adjust hours and turning to anti-clockwise adjust minutes.

AS/PS Use to automatically scan and place six strong stations into memory.

SHUFFLE Press to play ALL tracks on the CD in random order.

PAUSE Press to pause CD playback. Press again to resume playback.

SCAN Press this button to hear the first several seconds of each track of the disc is played. Press again to stop intro and listen to track.

REPEAT Press and release to continuously repeat same track). Press again to stop repeat cycle.

BAND Press to change between AM/FM bands.

MP3 Search key assignments

SPECIFICATIONS

CD/MP3 PLAYER SECTION

Signal to Noise Ratio	> 60dB
Channel Separation	> 50 dB (1kHz)
Frequency Response	20Hz - 20 kHz

TUNER (FM)

Frequency range	87.5-107.9 MHz
Intermediate frequency	10.7 MHz
Sensitivity	2.8 µV
Stereo separation	35 dB
Signal to noise radio	55 dB
Channel step	100 kHz

TUNER (AM)

Frequency range	530-1710 KHz
Intermediate frequency	10.71 MHz
Usable Sensitivity	32 dBµV

LINE-OUT

Output	350mV max.
Impedance	10kOhm

GENERAL

Power Supply	13.8V DC (10.8-15.6V allowable)
Speaker impedance	4 or 8 ohm
Output power	40W x 4CH

Note: Specifications and the design are subject to possible modification without notice due to improvement.