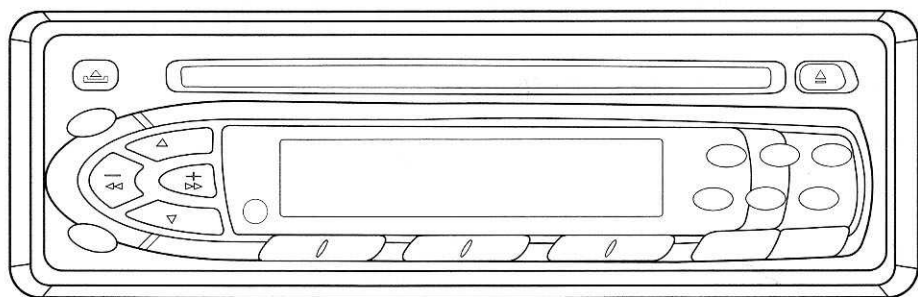# SOUND STORM®
L A B O R A T O R I E S

SCD-350 / 360R

## COMPACT DISC RECEIVER
PLL SYNTHESIZED TUNER

OWNER'S MANUAL

INSTALLATION

Notes:

- Choose a mounting location where the unit will not interfere with the normal functions of the driver.

- Before finally installing the unit, connect the wiring temporarily and make sure it is all connected correctly and the unit and the system work properly.

- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.

- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.

- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop.

- If installation angle exceeds 30° from horizontal, the unit may not perfrom optimally.
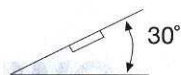

- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from the heater, or where it would be subject to dust, dirt or excessive vibration.

DIN FRONT/REAR-MOUNT
This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods.

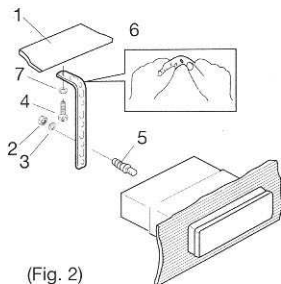## DIN FRONT-MOUNT (Method A)

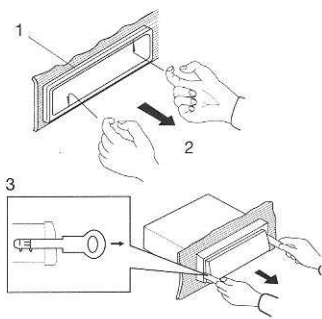Installation the unit
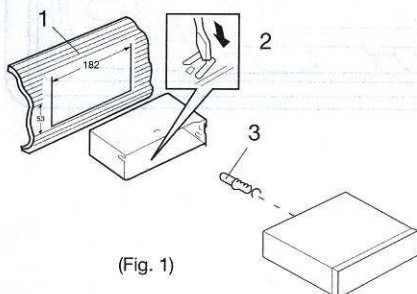
(Fig. 1)

1. Dashboard

2. Holder
   After inserting the holder into the dashboard, select the appropriate tab according to the thickness of the dashboard material and bend them inwards to secure the holder in place.
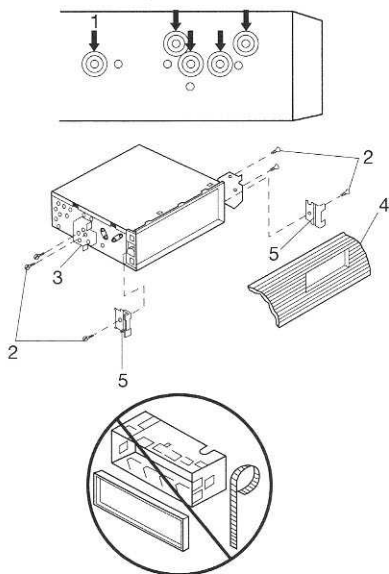
3. Screw

(Fig. 2)

1. Dashboard
2. Nut (5mm)
3. Spring washer
4. Screw (5 x 25mm)
5. Screw
6. Backstrap
   Be sure to use the backstrap to secure the back of the unit in place. The backstrap can be bent by hand to the desired angle.
7. Plain washer

Removing the unit

1. Frame
2. Insert fingers into the groove in the front of frame and pull out to remove the frame. (When reattaching the frame, point the side with a groove downwards and attach it.)
3. Lever
   Insert the levers supplied with the unit into the grooves at both sides of the unit as shown in figure until they click. Pulling the levers makes it possible to remove the unit from the dashboard.

DIN REAR-MOUNT (Method B)

Installation using the screw holes on the sides of the unit.

Fastening the unit to the factory radio mounting bracket.

1. Select a position where the screw holes of the bracket and the screw holes of the main unit become aligned (are fitted), and tighten the screws at 2 places on each side.
   Use either truss screws (5 x 6mm) or flush surface screws (4 x 6mm), depending on the shape of the screw holes in the bracket.
2. Screw
3. Factory radio mounting bracket
4. Dashboard or Console
5. Hook (Remove this part)

Note: The mounting box, outer trim ring, and half-sleeve are not used for method B installation.

3

HOW TO REMOVE AND INSTALL THE FRONT PANEL (OPTIONAL)

1. Press the release button and pull-off the front panel.
   Keep front panel into the case.

2. To install the front panel, insert the panel into the housing and make sure the panel is properly installed, otherwise, abnormalities occurs on the display or some keys will not function properly.

REMOVING THE FRONT PANEL

Front Panel

Release Button
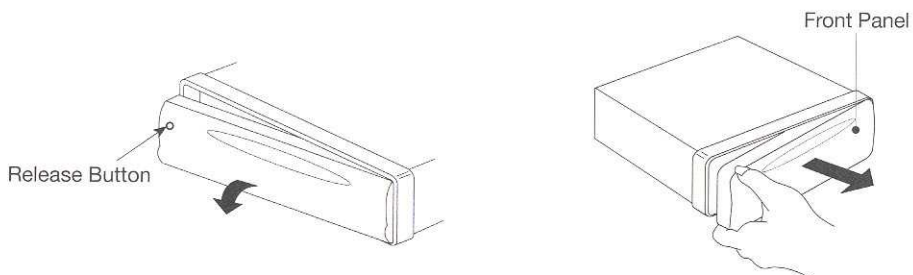
INSTALLING THE FRONT PANEL
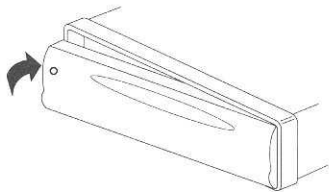
WIRING CONNECTION   50 WATTS X 4

MAIN UNIT

ANTENNA CONNECTOR

IGNITION SWITCH (B+) — RED

MEMORY BACK-UP — YELLOW — CHOKE BOX

GROUND (B–) — BLACK

POWER ANTENNA — BLUE

RCA CABLE — (GREY) — Rch RED — Lch WHITE

2-SPEAKERS SYSTEM — WHITE — Lch SPK.

4-SPEAKERS SYSTEM — WHITE — FRONT Lch SPK. — WHITE/BLACK — GREEN — REAR Lch SPK. — GREEN/BLACK

GREEN/BLACK

4-SPEAKERS SYSTEM — GREY — FRONT Rch SPK. — GREY/BLACK — VIOLET — REAR Rch SPK. — VIOLET/BLACK

2-SPEAKERS SYSTEM — GREY — Rch SPK. — VIOLET/BLACK
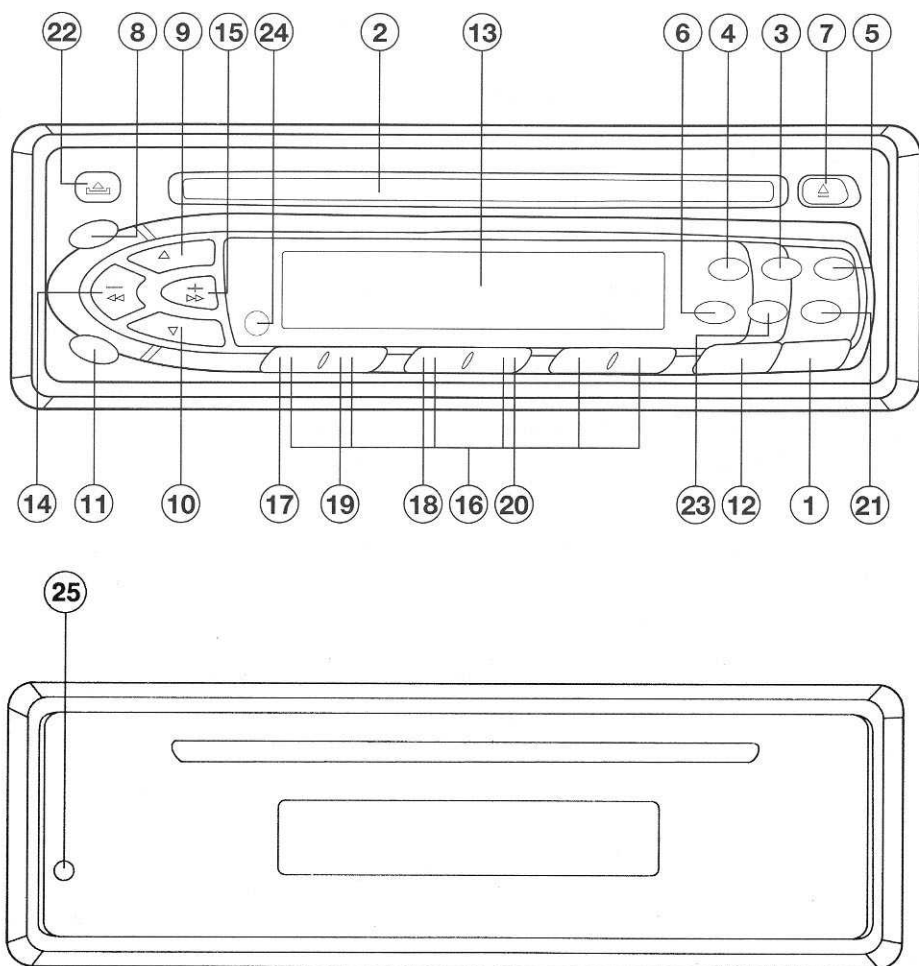
Note:
1. For 2-speakers system, green, violet, white/black and grey/black wire leads are unconnected and isolated.
2. For 2-speakers system, keep the fader indicator at center position to maintain the existing volume level.

LOCATION AND FUNCTION OF CONTROLS

(1) ON/OFF
Press **POWER** button (1) to turn on. Press it again to turn it off. If the power is off, press **BND** button (11) or **MOD** button (12) also can turn on the unit.

(2) DISC PLAY
Gently insert a compact disc with the label side facing up into the disc slot (2). The disc is then automatically loaded into the unit and starts playing with the first track of the disc. The digital display will indicate the track number.

(3) MUTE
Press the **MUT** button (3) to silence the receiver. Press again to resume listening.

(4) MONO/STEREO

Press **MON** button (4) to select monaural or stereo (Mono reception for radio stations). You can sometimes improve reception of distant stations by selecting mono operation.

(5) LOUDNESS

Press **LOU** button (5) to increase bass output and display will show **"LOUD"**.

(6) SET THE CLOCK

Press and hold the **DSP** button (6), then press the +/▷▷ (15) to change minutes or ◁◁/− (14) to change hours.

(7) EJECT

Push a CD into slot. The CD will begin to play. Press ⏏ (eject) button (7) to stop CD play and eject CD from slot. Receiver switches to radio operation.

(8, 9 & 10) SELECT MODE

Press **SEL** button (8) to select bass, treble, balance, fader and volume functions. Use △ (9) and ▽ (10) buttons to adjust the selected mode. When mode has not been adjusted for several seconds, display returns to normal radio or CD display.

```
┌──▶  BAS   ──▶  TRE   ──▶  BAL   ──▶  FAD   ──▶  VOL   ──┐
│    (Bass)     (Treble)   (Balance)   (Fader)   (Volume)  │
└─────────────────────────────────────────────────────────┘
```

Bass
Press **SEL** button (8) for one time. Adjust bass level using △ (9) and ▽ (10) buttons.

Treble
Press **SEL** button (8) for two times. Adjust treble level using △ (9) and ▽ (10) buttons.

Balance
Press **SEL** button (8) for three times. Adjust sound balance between left and right speakers using △ (9) and ▽ (10) buttons.
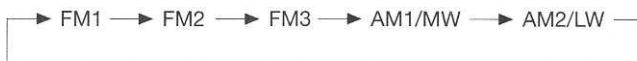
Fader
Press **SEL** button (8) for four times. Adjust sound balance between front and rear speakers using △ (9) and ▽ (10) buttons.

Volume
Press **SEL** button (8) for five times. Adjust volume level using △ (9) and ▽ (10) buttons.

(11) BAND

Press **BND** button (11) to change between three FM bands and two AM bands and one LW band. Each band stores up to six preset stations.

```
┌──▶ FM1 ──▶ FM2 ──▶ FM3 ──▶ AM1/MW ──▶ AM2/LW ──┐
└────────────────────────────────────────────────┘
```

(12) SELECT LISTENING MODE

Press **MOD** button (12) to choose desired listening mode. (e.g. radio mode to CD mode).

(13) LIQUID CRYSTAL DISPLAY

The **LCD** (13) shows the current function of the unit.

(14 & 15) SELECT STATIONS

Press and release a **TUNE/SEEK/TRACK** button ◄◄ /– (14) or +/ ►► (15) to change radio frequency up or down.
Press and hold a **TUNE/SEEK/TRACK** button ◄◄ /– (14) or +/ ►► (15) for several seconds to seek the next clear station.

(14 & 15) SKIP TRACKS

In CD mode, press a **TUNE/SEEK/TRACK** button ◄◄ /– (14) or +/ ►► (15) to select the previous track or the following track. Track number shows on the display.

(14 & 15) FAST FORWARD AND FAST REVERSE

Press a **TUNE/SEEK/TRACK** button ◄◄ /– (14) or +/ ►► (15) to fast reverse or fast forward. CD play starts from when you release the button.

(16) PRESET STATIONS

There are six buttons (16) for the preset locations to store and recall stations for each band.
To store a station:
Select a band (11). Select a station. Hold a preset button for several seconds. The station will be stored in that preset location.
To recall a station:
Select a band (11). Press a preset button to select a stored station.

(17) TOP: PLAY THE FIRST TRACK

Press **TOP** button (17) to play the first track of the current disc.

(18) REPEAT THE SAME TRACK

In CD mode, press **RPT** button (18) to continuously repeat the same track.
Press again to stop repeat.

(19) INTRO: PREVIEW ALL TRACKS

In CD mode, press **SCN** button (19) to play first several seconds of each track on the current disc. Press again to stop intro and listen to track.

(20) RANDOM: PLAY ALL TRACKS

In CD mode, press **RND** button (20) to play all tracks on CD in random order.
Press again to cancel the function.

(21) AUTOMATIC STORING & PROGRAM SCANNING

Automatic Storing

Press and hold **AMS** button (21) for several seconds to initiate the automatic storing function. It starts searching for the next frequency in local mode and stores a clear station into each of the preset memory locations. If 6 stations are not memorized, second search is done in distance mode. At the end of the automatic storing operation, the mode is changed to Preset Scan.

Preset Scanning

Press **AMS** button (21) shortly to initiate the preset scanning function. While scanning, it will stop at every stored station for several seconds and the number of the channel being scanned flashes on the display. Press it again to stop scanning.

(22) FRONT PANEL RELEASE

Press **RELEASE** button (22) to detach the removable front panel.

(23) EQUALIZATION

Press **EQ** button (23) to turn on equalization function and to select desired audio mode. There are four equalization curves as shown below:

→ FLAT → ROCK → CLASSIC → POP

(24) REMOTE SENSOR (OPTIONAL)

Point the remote handset at the remote sensor (24).
Press the function keys on the remote handset to control the system.

(25) RESET BUTTON FUNCTION

RESET button (25) is placed on the housing and must be activated with either a ball point pen or thin metal object. The reset button is to be activated for the following reasons:

• After initial installation of the unit when all wiring is completed.

• All the function buttons do not operate.

• Error symbol on the display.

Note: If after pressing the **RESET** button (25), the unit still does not work, please use a cotton swab soaked in isopropyl alcohol to clean the connection at the back of the front panel.

SPECIFICATION

GENERAL

Power Supply Requirements	: DC 12 Volts, Negative Ground
Chassis Dimensions	: 178 (W) x 155 (D) x 50 (H)
Tone Controls	
- Bass (at 100 Hz)	: +10 dB / –10 dB
- Treble (at 10 KHz)	: +10 dB / –10 dB
Maximum Output Power	: 50 Watts x 4 (channels)

CD PLAYER

Signal to Noise Ratio	: More than 60 dB
Channel Separation	: More than 60 dB
Frequency Response	: 20 Hz - 20 KHz

RADIO

FM

Frequency Coverage	: 87.5 to 107.9 MHz
IF	: 10.7 MHz
Sensitivity (S/N = 30 dB)	: 3 µV
Stereo Separation	: > 30 dB

AM

Frequency Coverage	: 530 to 1710 KHz
IF	: 450 KHz
Sensitivity (S/N = 20 dB)	: 32 dBu

TROUBLE SHOOTING

Before going through the check list, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

Symptom	Cause	Solution
No power.	The car ignition is not on.	If the power supply is properly connected to the car accessory terminal, switch the ignition key to "ACC".
	The fuse is blown.	Replace the fuse.
Disc cannot be loaded or ejected.	Presence of CD disc inside the player.	Remove the disc in the player, then put a new one.
	Inserting the disc in reverse direction.	Insert the compact disc with the label facing upward.
	Compact disc is extremely dirty or defective disc.	Clean the disc or try to play a new one.
	Temperature inside the car is too high.	Cool off or until the ambient temperature return to normal.
	Condensation.	Leave the player to off for an hour or so, then try again.
No sound.	Volume is in minimum.	Adjust volume to a desired level.
	Wiring is not properly connected.	Check wiring connection.
The operation keys do not work.	The built-in microcomputer is not operating properly due to noise.	Press the RESET button. Front panel is not properly fixed into its place.
Sound skips.	The installation angle is not more than 30 degrees.	Adjust the installation angle to less than 30 degrees.
	The disc is extremely dirty or defective.	Clean the compact disc. Then try to play a new one.
The radio does not work. The radio station automatic selection does not work.	The antenna cable is not connected.	Insert the antenna cable firmly.
	The signals are too weak.	Select a station manually.