# **User's Manual**

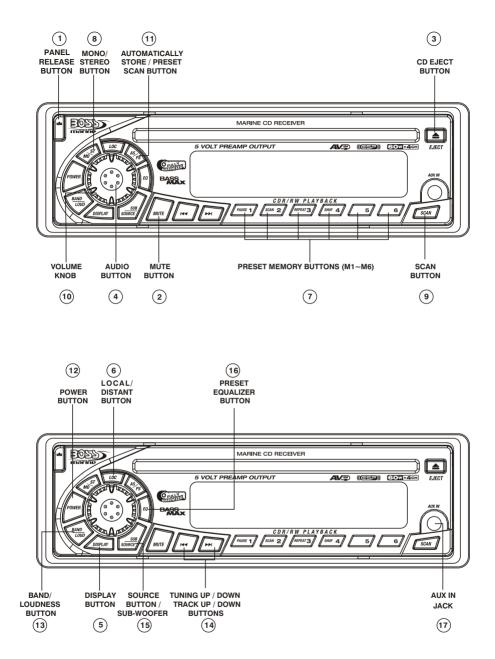


# N-DASH MARINE CD RECEIVER





# **1. BUTTONS LOCATION AND FUNCTIONS**



# 2. HANDLING COMPACT DISCS MOISTURE CONDENSATION

On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit. Should this occur, the unit will not operate properly. In such a case, remove the disc and wait for about an hour until the moisture has evaporated.

# NOTES ON CDs

 A dirty or defective disc may cause sound dropouts while playing. To enjoy optimum sound, handle the disc as follows. Handle the disc by its edge. To keep the disc clean, do not touch the surface (P.1).



2. Do not stick paper or tape on the disc (P.2).



3. Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in temperature inside the car (P.3).



4. Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the center out (P.4).

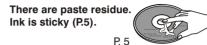


 Do not use solvents such as benzine, thinner,commercially available cleaners, or antistatic spray intended for analog discs.

# NOTES ON DISCS

If you use the discs explained below, the sticky residue can cause the CD to stop spinning and may cause malfunction or ruin your discs.

Do not use second-hand or rental CDs that have a sticky residue on the surface (for example, from peeled-off stickers or from ink, or glue leaking from under the stickers).



Do not use CDs with old labels that are beginning to peel off.

Stickers that are beginning to peel away, leaving a sticky residue (P.6). P. 6



Do not use your CDs with labels or stickers attached.

Labels are attached (P.7).



# P. 7 Do Not Use Special Shape CDs

Be sure to use round shape CDs only for this unit and do not use any special shape CDs. Use of special shape CDs may cause the unit to malfunction.(P.8).





Be sure to use CDs with disc mark

Only for this unit.

CD-Rs and CD-RWs which have not undergone finalization processing cannot be played. (For more information on finalization processing, refer to the manual for your CD-R/CD-RW writing software or CD-R/CD-RW recorder.) Additionally, depending on the recording status, it may prove impossible to play certain CDs record on CD-R or CD-RW.

# **3. INSTALLATION**

- Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and 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, like an emergency stop.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance.



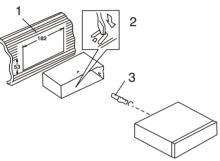
- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from heater, or where it would be subject to dust dirt or excessive vibration.
- Be sure to remove the front panel before installing the unit.

#### **DIN FRONT/REAR-MOUNT**

This unit can be property 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 A and B.

#### DIN FRONT-MOUNT (Method A)

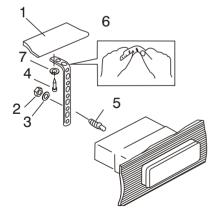
#### Installation the unit



- 1. Dashboard
- 2. Holder

After inserting the half sleeve 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

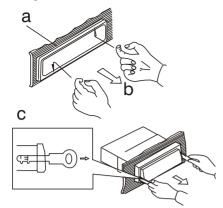


- 1. Dashboard
- 2. Nut (5mm)
- 3. Spring washer
- 4. Screw (5x15mm)
- 5. Screw
- 6. Support Strap

Be sure to use the support strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle.

7. Plain washer

#### Removing the unit



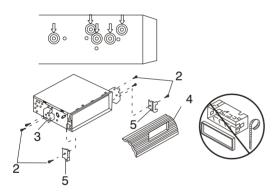
- a. Frame
- Insert fingers into the groove in the front of frame and pull out to remove the frame. (When re-attaching the frame, point the side with a groove down wards and attach it.)
- c. Insert the levers supplied with the unit into the grooves at both sides of the unit as shown in figure until they click. Pulling the levers makes it possible to remove the unit from the dashboard.

#### Trim Plate Installation:

Push the trim plate against the chassis until it is fitted. You must do this before you install the front panel, otherwise it can't be attached.

#### 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.



- 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.
- 2. Screw
- 3. Factory radio mounting bracket.
- 4. Dashboard or Console
- 5. Hook (Remove this part)

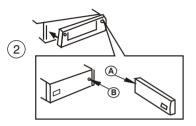
Note: the mounting box, outer trim ring, and half-sleeve are not used for method B installation.

# 4. DETACHABLE CONTROL PANEL (D.C.P.)

Removing The Detachable Control Panel (D.C.P.).



#### Attaching the DCP

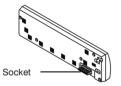


- 1. Turn the power off
- 2. Press the D.C.P. release button
- 3. Remove the D.C.P.

- 1. Attach the panel at the right side first, with point B on the main unit touching point A on the D.C.P. (As shown on the digram).
- 2. Then press the left side of D.C.P. onto the main unit until a "click" sound is heard.

#### CAUTION

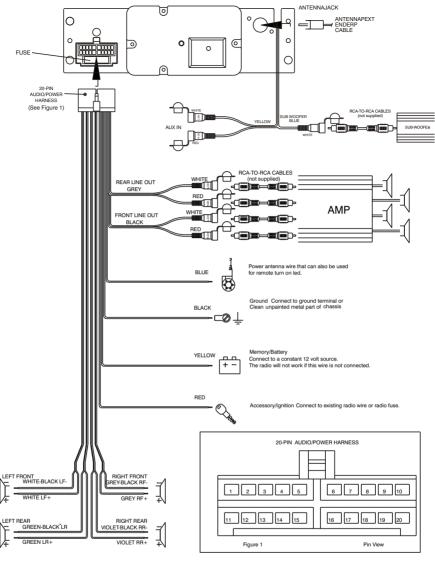
- DO NOT insert the D.C.P from the left side. Doing so may damage it.
- The D.C.P can easily be damaged by shocks. After removing it, place it in a protective case and be careful not to drop it or subject it to strong shocks.
- When the release button is pressed and the D.C.P is unlocked, the car's vibrations may cause it to fall. To prevent damage to the D.C.P, always store it in a protective case after detaching it.
- The rear connector that connects the main unit and the D.C.P is an extremely important part. Be careful not to damage it by pressing on it with fingernails, pens, screwdrivers, etc.



#### Note:

If the D.C.P is dirty, wipe off the dirt with soft, dry cloth only. And use a cotton swab soaked in isopropyl alcohol to clean the socket on the back of the D.C.P.

# 5. WIRING DIAGRAM (20 PIN HARNESS PLUG)



PIN	WIRE COLOR	FUNCTION/LABEL
1	GREY/BLACK	RIGHT FRONT SPEAKER (-)
2	GREY	RIGHT FRONT SPEAKER (+)
3	VIOLET	RIGHT REAR SPEAKER (+)
4	VIOLET/BLACK	RIGHT REAR SPEAKER (-)
5		
6	GREEN	LEFT REAR SPEAKER (+)
7	GREEN/BLACK	LEFT REAR SPEAKER (-)
8	RED	IGNITION(ACC)
9	BLACK	REAR PRE-AMP LINE OUT COMMON
10	RED	RIGHT REAR PRE-AMP LINE OUT

PIN	WIRE COLOR	FUNCTION/LABEL
11	WHITE	LEFT FRONT SPEAKER (+)
12	WHITE/BLACK	LEFT FRONT SPEAKER (-)
13		
14	BLUE	POWER ANTENNA
15	YELLOW	BATTERY(+)
16	BLACK	CHASSIS GROUND
17	WHITE	LEFT FRONT PRE-AMP LINE OUT
18	RED	RIGHT FRONT PRE-AMP LINE OUT
19	BLACK	FRONT PRE-AMP LINE OUT COMMON
20	WHITE	LEFT REAR PRE-AMP LINE OUT

# 6. BASIC OPERATIONS

# 1) PANEL RELEASE BUTTON (REL)

Press this button to remove the control panel.

## 12) POWER ON/OFF BUTTON

Press this button to turn on or off the power.

#### 5) DISPLAY BUTTON (DISP)

Press this button briefly, the LCD will display the clock for about 2 seconds, then return to previous display mode.

#### **Clock Adjustment**

Under clock display mode, press DISP button until the LCD flashes, press Tuning Up Button to adjust hour and Tuning Down Button to adjust minute.

## 15) SOURCE BUTTON (SOURCE)

Press this button to select Radio and CD modes. The available selections depends on version: Radio CD Player Radio > CD > AUX in

## Sub-woofer On/Off

Press SOURCE button for more than 3 seconds to activate or turn off the Sub-woofer output.

# 17) FRONT (AND REAR PANEL) AUXILIARY INPUT JACKS

This unit features AUX IN line input jacks on both the front (headphone type) and rear (RCA type) panels.

## PLEASE NOTE:

These two inputs cannot be used simultaneously. If you have a source unit plugged into the rear panel jack and wish to listen to a portable device (such as an MP3 player) by using the front panel jack, be sure to power off the unit plugged into the rear unit to avoid interference.

Similarly, if you have a device plugged into the front panel jack and wish to listen to the unit plugged into the rear panel, be sure to turn off the front panel device.

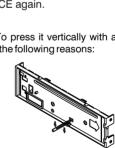
To select either the front or rear AUX IN device as a listening source, press the SOURCE button to select AUX mode. To cancel AUX IN listening, press SOURCE again.

## RESET BUTTON

The RESET button is located on the main unit (as shown on the diagram). To press it vertically with a ballpoint pen or metal object will activate it. The reset button is to be activated for the following reasons:

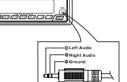
- Initial installation of the unit when all wiring is completed.
- All the function buttons do not operate.
- Error symbol on the display.

**Note:** If the unit cannot function normally after reseting, please use a cotton swab soaked in isopropyl alcohol to clean the socket on the back of the control panel.





AUX IN JACK IN PANEL



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# 7. AUDIO OPERATIONS

#### 10) VOLUME KNOB

Turn this knob to adjust desired volume level.

#### 4) AUDIO BUTTON

Press this button to select desired audio function.

#### ORDER OF FUNCTION:

VOLUME(VOL) -> BASS(BAS) -> TREBLE(TRE) ->BALANCE(BAL) ->FADER(FAD)

While the selected function is displayed, turn Volume Knob to adjust the level within 5 seconds, otherwise the unit will return to volume adjustment mode.

### 2) MUTE BUTTON (MUTE)

Press this button to mute the sound. Press it again to resume listening.

#### 16) PRESET EQUALIZER BUTTON (EQ)

Press this button to toggle the following EQ settings:

FLAT->CLASSICS->POP M->ROCK M->DSP OFF

At DSP OFF mode, EQ will be controlled by Bass/Treble setting.

#### 13) BAND/LOUDNESS BUTTON (BAND/LOUD)

Press the Band/Loudness Button for couple of seconds to switch the loudness on or off. When Loudness is on, display will show 'Loud On' for a few seconds.

# 8. RADIO OPERATIONS

## 11) AUTO MEMORY STORE/PRESET SCAN BUTTON (AS/PS)

- 1. PRESET SCAN: Press AS/PS button briefly to enter Preset Scan mode, it will scan all the preset stations in the memories, you can hear that it will stay on each station for about 5 seconds.
- 2. AUTO MEMORY STORE: Press AS/PS button for couple of seconds to enter Auto Store mode, this feature will automatically scan the current band and enter up to 6 strongest stations into the 6 preset memories. To stop Auto Store & Scan, press the AS/PS button again.

## 7) STATION PRESET BUTTONS (M1-M6)

- 1. Press these buttons briefly to recall the stored stations in the selected band.
- 2. Presetting stations manually, Press the BAND button to select the band for the stations to be preset. Use Tuning Up/Down to tune in the stations to be preset. Press the Preset button at which you want to store the station for at least 2 second. The preset number will appear on the display accompanied by a beep, this indicates that the station has been stored into memory.

## 13) BAND/LOUDNESS BUTTON (BAND/LOUD)

This a dual function button. Press this button shortly to change between BAND FM1, FM2, FM3 or AM bands. Press this button for couple of seconds to turn Loudness function on or off.

# 14) TUNING / SEEK UP AND TUNING / SEEK DOWN BUTTONS

- 1. Press these buttons briefly, and the unit will operate in AUTO SEARCH tuning mode, the radio will tune up or down to the next station and remain on that station.
- 2. Press these buttons for more than 2 seconds, operate as MANUAL SEARCH buttons, under this mode the tuning frequency will advance up or down rapidly when the button is pressed. If the buttons are not pressed within 3 seconds, they will return to auto search mode.

## 8) MONO STEREO BUTTON (MO/ST)

When you receive a station, "ST" on the display will be on. Press this button to enter Mono mode.

## 9) SCAN BUTTON(SCAN)

Press this button, the radio will tune up to search stations, the available stations will blink and stay on the display for a few seconds.

# 6) LOCAL/DISTANT BUTTON (LOC)

During station tuning, this button allows you prior to access strong local station only (Local mode), or to access a wider range of using distant mode (DX). When powered on, DX mode will be defaulted automatically; Press LOC button briefly to select Local mode and "LOCAL" symbol on the LCD will light up for a few seconds.

# 9. CD OPERATIONS

#### M1) PAUSE BUTTON (PAUSE)

Press this button to pause CD play, press again to release pause.

#### M2) SCAN BUTTON (SCAN)

Press this button, the first 10 seconds of each track will be played sequentially until this button is pressed again, then normal play will resume at the current track.

#### M3) REPEAT BUTTON (REPEAT)

Press this button, the current track will be played repeatedly until this button is pressed again.

#### M4) SHUFFLE BUTTON (SHUFFLE)

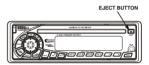
Press this button to play all tracks on CD in random. Press again to deactivate it.

#### 14) TRACK UP AND TRACK DOWN BUTTON

Press the Track Up Button to skip to the next track or previous track. Press the Track Down button during play will return to the beginning of the current track, press it one more time to skip to previous skip. Press and hold Track Up/Down Button to fast forward or fast reverse. CD player starts playing when you release the button.

#### EJECT BUTTON

Press this button to eject the CD from the unit. The receiver will switch to radio mode automatically.



# **10.SPECIFICATIONS**

# CD PLAYER

System Usable disc Sampling frequency No of quantization bits Frequency Number of channels S/N Ratio

## RADIO SECTION FM

Frequency Range Intermediate Frequency Usable Sensitivity Stereo Separation S/N Ratio

# AM/MW

Frequency Range Intermediate Frequency Usable Sensitivity S/N Ratio

# GENERAL

Power Supply Polarity Speaker impedance Power Output

# REMARK : Specifications subject to change without notice.

Compact disc audio system Compact disc 44.1KHz 1bit 5-20,000Hz 2 stereo 70dB

87.5-107.9MHz 10.7 MHz Better than 15dB at S/N 30 dB 25 dB at 1KHz 50 dB

530-1710KHz 450KHz Better than 45dB 40 dB

DC 11 -14V Negative Ground 4 ohms 4x 60 Watts

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# **11.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 returns to normal.
	Condensation.	Leave the player 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 more than 30 degrees.	Adjust the installation angle to less than 30 degrees.
	The disc is extremely dirty or a defective disc.	Clean the compact disc or try to play a new one.
The radio does not work.	The antenna cable is not connected.	Insert the antenna cable firmly.
The radio station automatic selection does not work.	The signals are too weak.	Select a station manually.
ERROR 1	Mechanism Error	Press the reset button if the error code does not disappear, consult your nearest service dealer.
ERROR 2	Servo Error	Press the reset button if the error code does not disappear, consult your nearest service dealer.



If at any time in the future you should need to dispose of this product please note that Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.(Waste Electrical and Electronic Equipment Directive)



## MR1400S • MR1400W IN-DASH MARINE CD RECEIVER

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