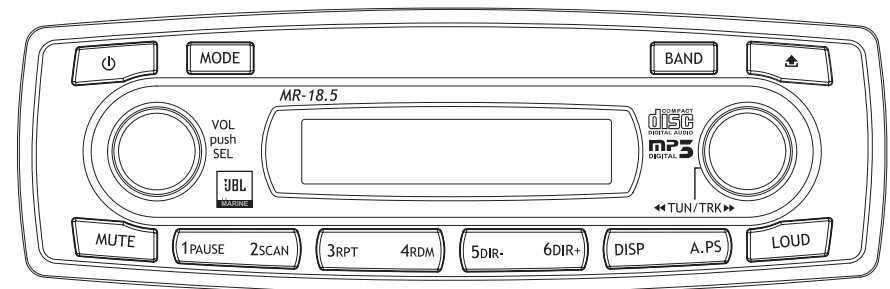




Operation Manual

Model No.: MR-18.5



This product is serviced exclusively by Prospec Electronics Inc. and must be returned to Prospec for in and out of warranty repairs. It can not be serviced under warranty by other JBL service centers.

For service contact us : 3325 South Morgans Point Road Mt Pleasant SC 29466

Tel 843-849-9037 Fax 843-849-9054

Or visit: prospecelectronics.com

This product is designed and manufactured by Prospec Electronics. Please contact us for any additional questions.

Table of Contents

Table of Contents	1
Product Features	2
Installation	3
Wiring Identification	4
Important Notes	5
Identification of Controls and Functions	6
General Controls (In Detail)	7-9
Radio Operation	10
Disc Operation	11-12
AUX, RCA, Remote Description	13
Trouble Shooting Guide	14
Specifications	15

Product Description

This state of the art JBL Marine CD receiver incorporates the following features:



AM/FM



Compact Disc (MP3, WMA)



Auxiliary input (rear input)



Waterproof Faceplate



45Watts x 4 amplifier



RF remote Optional



U.S. and European tuning



1 pair of RCA output

Specifications

Operation Voltage ----- 12 volts DC, Negative Ground

Output Power ----- 180 watts maximum
(45 watts x 4 channels)

Output Impedance ----- compatible with 4 ~8 ohm speakers

Tuning Range

USA AREA ----- FM: 87.5 ~ 107.9MHz. (200KHz step)
AM: 530 ~1710 KHz. (10KHz step)

EUR AREA ----- FM: 87.5 ~ 108MHz. (50KHz step)
AM: 522 ~1620 KHz. (9KHz step)

Sensitivity ----- AM: 35 dBu
FM: 10 dBu

FM Stereo Separation ----- 30 dB

CD Frequency Response ----- 20 ~20,000 Hz

CD S/N Ratio ----- 63 dB

CD Channel Separation ----- 50 dB

AUX Input Sensitivity ----- 2V (VOLUME STEP 20)
400 and 800mV@10K ohm

Trouble shooting Guide

Caution

- CONNECTOR PINS:** Always keep connector pins clean.
If the PIN connector looks dirty, use cotton tips to clean it, so as to avoid any unexpected malfunction caused by dirt.
- In many respects, a stereo acts much like a computer and occasionally requires a reboot.
In the unlikely event of product malfunction, a reset can usually fix the issue.
A reset is accomplished by holding the BAND and Preset 1 button simultaneously until the unit turns off.

Issue	Cause	Solution
No power	<ol style="list-style-type: none"> 1. Incorrect wiring 2. Fuse is blown 3. Low battery voltage 	<ol style="list-style-type: none"> 1. Double check wiring 2. Replace fuse 3. Check voltage of vehicle battery with multimeter. Voltage must be at least 11V.
No Sound	<ol style="list-style-type: none"> 1. Speaker connection came loose 2. Bad speaker 3. Output blown 4. Volume too low on media device 	<ol style="list-style-type: none"> 1. Double check connections. 2. Replace bad speaker with known good speaker and connect. 3. Send unit in for repair. 4. Increase volume of media device
No Reception	<ol style="list-style-type: none"> 1. Antenna not firmly seated in socket 	<ol style="list-style-type: none"> 1. Insert firmly.

Installation

1. Precautions

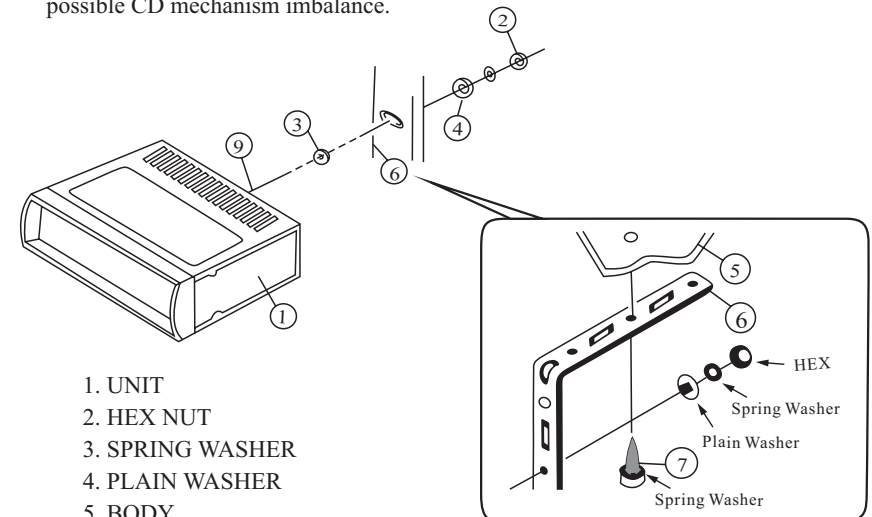
Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the boat.
Avoid installing the unit where it would be subject to high temperature (such as from direct sunlight or hot air) or where it would be subject to dust, dirt or excessive vibration. Use only the supplied mounting hardware for a safe and secure installation.

2. Mounting angle adjustment

Adjust the mounting angle to less than 20 degrees from the horizontal position. Otherwise, the unit will skip beyond its intended level.

3. Supporting the unit

Failure to support the unit with the back bracket will reduce the life of the unit due to possible CD mechanism imbalance.



1. UNIT
2. HEX NUT
3. SPRING WASHER
4. PLAIN WASHER
5. BODY
6. REAR SUPPORT STRAP
7. TAPPING SCREW
8. M5 X 20 HEX BOLT

- Accessories subject to change without notice.

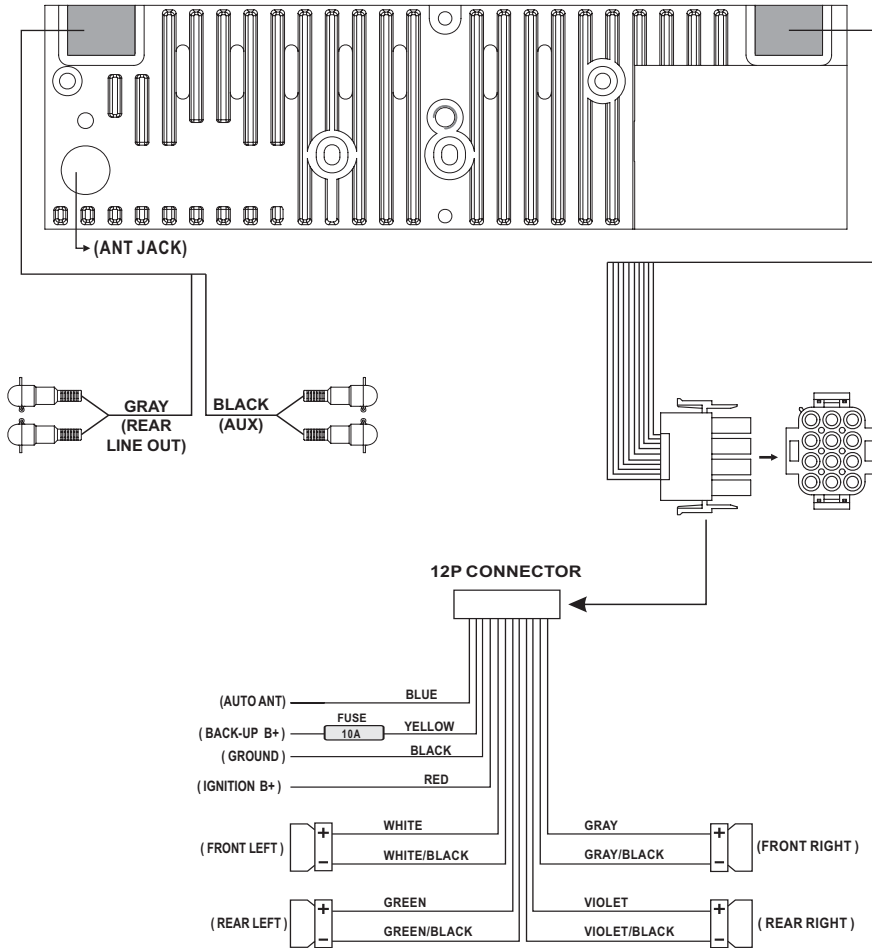
1. Fuse replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after the replacement, there may be an internal malfunction. In this case, consult your nearest dealer.

2. Warning

Use the specified amperage fuse for each lead.
Use of a higher amperage fuse may cause serious damage.

Wiring Identification



NOTE: When wiring, both the yellow and red lead must be hooked up. The yellow lead goes to the battery while the preferred method for the red wire is ACC/ignition power lead.

Auxiliary Input Mode

- Press the Mode button until "AUX" appears on the LCD screen.
- The use of auxiliary mode allows you to play the portable music device through the headphone jack. An auxiliary adaptor will need to be purchased separately (Prospec offers part, SEAMINI2).

RCA output

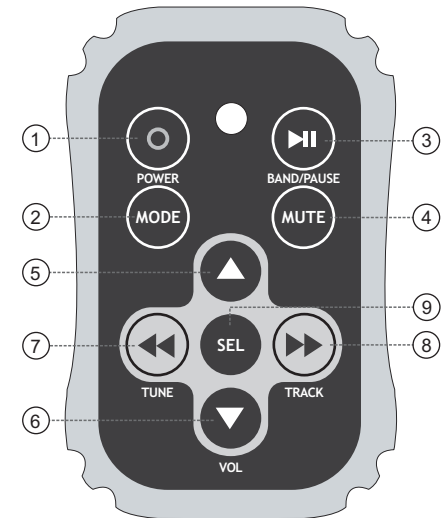
Description: The use of RCA outputs allow an amplifier or subwoofer to be connected.

Remote Option

- RF remote option.
This CD unit was built with an internal RF receiver. Simply purchase the associated transmitter (Prospec part, MILRF9) to complete the option. The RF remote will allow wireless remote operability up to 30 feet away.

MILRF9 Function and Name

- POWER ON/OFF button
- MODE button
(Radio --> CD --> AUX-IN)
- CD Play/Pause, Radio BAND button
- MUTE button
- VOLUME UP button
- VOLUME DOWN button
- TUNE / TRACK DOWN button
- TUNE / TRACK UP button
- SEL (select) button
Short push: VOL --> BAS --> TRE --> BAL --> FAD.
Press and hold: BEEP 2ND --> I-VOL --> AREA --> DSP.



How to exchange the battery

Open the cover of the back of remote marked Battery.
Place battery as indicated on the back of the remote noting polarity.

* Replacement Battery : Cr2025

4. Repeat play button (10)

Short push RPT button to play the current track repeatedly. Press and hold RPT for 2 seconds to play all the tracks in current directory repeatedly. Simply push RPT button again to return to normal play mode.

Note: The press and hold function is only available for MP3/WMA playing mode.

5. Random play button (11)

Short push RDM button to play all the tracks in the disc in a random sequence. Press and hold RDM for 2 seconds to play all the tracks in current directory randomly. Simply push RDM button again to return to normal play mode.

Note: The press and hold function is only available for MP3/WMA playing mode.

6. Directory UP or Down button (12, 13)

Simply push the Directory UP or Down button to select the next or previous directory. If it does not contain directories, it would play the track at 10- file when you push DIR- button (12), and play the track at 10+ file when you push DIR+ button (13).

7. ID3 Display button (14)

While a MP3 or WMA track is playing, pushing DISP button (14) repeatedly to display the ID3 information in a sequence of:

TITLE --> FILE --> ARTIST --> ALBUM --> CLOCK --> ELAPSE TIME.

8. Track Up or Down button (5)

Turn TRK knob (5) clockwise or counter-clockwise to select the next or previous track. Push TRK knob (5), it would display SEARCH ON, then turn TRK knob (5) clockwise to go fast forward and turn TRK knob (5) counter-clockwise to rewind the track. At the desired location, push TRK knob (5) once again, it would display SEARCH OFF and begin to play the track.

9. Directory Search button (15)

Press A.PS button (15) to enter Directory search mode, then turn TRK knob (5) to search the directory upward or downward in one directory step. At your desired directory, press A.PS button (15) to confirm your selection. Then search sub-directory and track by turning TRK knob (5) and confirm by pushing A.PS button (15) until you select the track you desired, push A.PS button (15) to play the track.

Prior to the final installation, perform a sound check. If high distortion or intermittent sound is experienced, it is possible that the wiring from the receiver to the boat's electrical system is poor or that the battery needs recharging.

If the battery and its charging circuit are OK, then rewire the yellow fused wire of the player directly to the positive terminal (+) of the boat battery.

Marine accessory shops stock the connector blocks and the 10 Amp cable that may be necessary for extending the fuse wire connection.

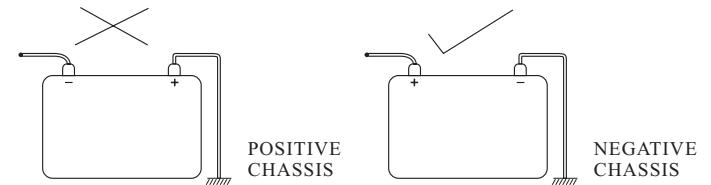
■ **Grounding**

Make sure that the black wire on the wiring harness is connected to a good ground point on the boat. If the chassis of the boat is used as a grounding point, make sure that the surface is scraped clean of paint before attaching the wire to it.

It is preferable to connect the black ground wire directly to negative terminal (-) of the boat battery.

■ **Warning: polarity...**

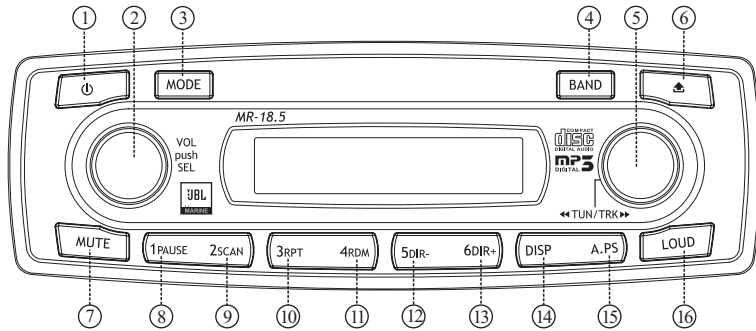
This model is only suitable for use in boats which have a Negative ground system, e. g. : the negative terminal of the boat battery is connected to the chassis.



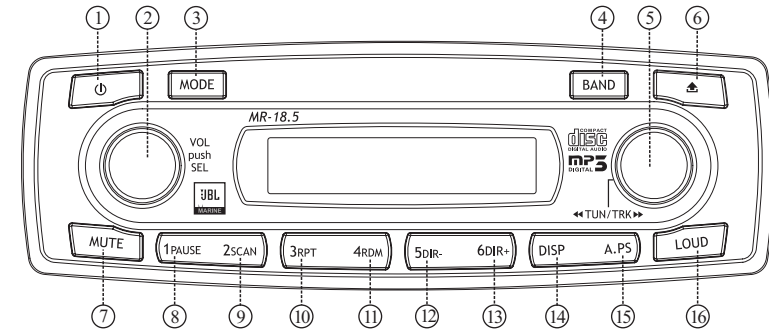
■ **Connecting the Speakers and Power Cables**

Before you wire your system, disconnect your boat battery's positive (+) cable.

This helps prevent damage in case of a short. When you complete the wiring, reconnect the battery cable and test your marine stereo. When connecting your marine stereo's black ground wire, be sure to connect the wire to a metal part of your boat or preferably to the negative (-) terminal of the boat battery.



1. POWER ON / OFF button
2. Turn VOL knob, Push SEL button
3. MODE button (RADIO --> CD --> AUX)
4. BAND button (FM1 --> FM2 --> FM3 --> AM1 --> AM2)
5. Turn TUNE UP/DOWN, TRACK UP/DOWN button
6. Faceplate Release button
7. Audio MUTE button
8. Radio Preset 1 button, Track play / pause button
9. Radio Preset 2 button, Track Intro Scan button
10. Radio Preset 3 button, Track Repeat Play button
11. Radio Preset 4 button, Track Random Play button
12. Radio Preset 5 button, Directory Down button
13. Radio Preset 6 button, Directory Up button
14. DISP (display) button
15. A/PS - FM/AM Auto Preset Scan button
16. LOUD (loudness) button

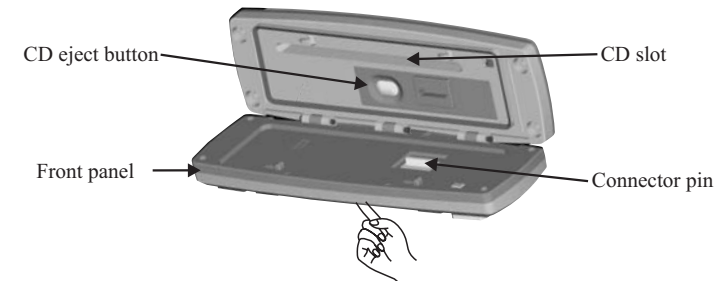


1. Loading a CD

Open the door by pushing the Faceplate Release button (6). Insert a CD label side up into the slot opening, push the front panel backward to the front plate. A noticeable "click" sound will be heard, resulting in a properly closed unit. The CD will begin playing automatically after it is loaded.

Notes:

- NEVER insert foreign objects into the CD slot opening.
- If a CD is difficult to insert, there may already be a CD loaded in the unit or the transit screws have not yet been removed.
- If the unit has become extremely hot we strongly recommend that you allow it to cool down before using.
- Take care of your CDs to preserve the quality of the recording. Do not allow them to be exposed to direct sunlight. Store them in a place protected from dirt and dust and avoid handling them with oily, greasy or wet hands.



2. With a disc inside, simply select the CD by pressing the **MODE** button (3) in sequence.

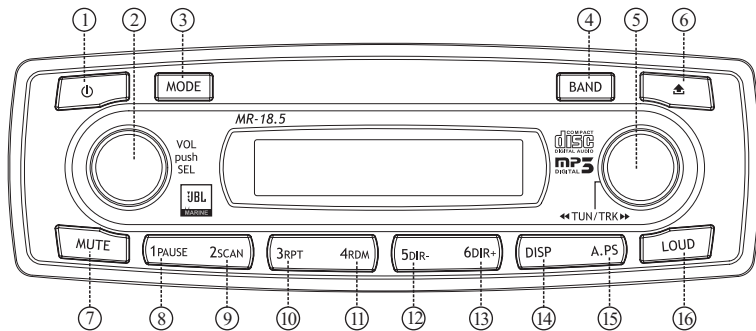
3. Play / Pause (8)

Push this button to Pause playback. Push it again to resume playback.

3. Intro Scan button (9)

Short push SCAN to hear the first 10 seconds of each track in the disc. Press and hold SCAN for 2 seconds to hear the first 10 seconds of each track in current directory. Simply push SCAN again to return to normal play mode.

Note: The press and hold function is only available for MP3/WMA playing mode.



1. Radio Operation

Press MODE button (3) to select Radio mode. Station frequency is indicated on display.

2. To Select Band

Press BAND button (4) to toggle through radio modes as follows:
FM1 --> FM2 --> FM3 --> AM1 --> AM2 --> FM1.

3. Auto / Manual tuning button (5)

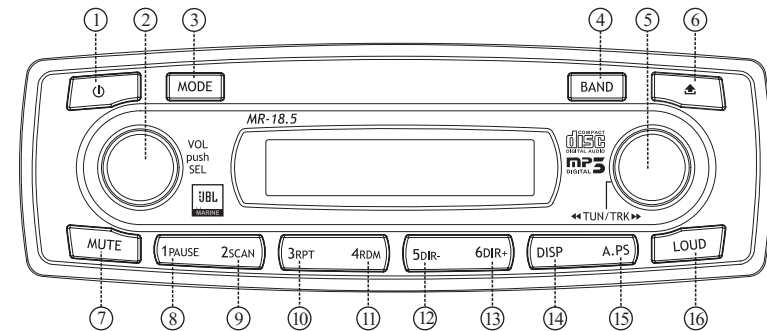
Simply turn TUNE knob (5) to activate the Auto Tune mode. It will automatically tune up or down the wave band and stop at the next station of sufficient signal strength.
Press TUNE button (5) to enter manual tuning mode. It would display MANUAL on the LCD, then turn TUNE knob (5) to tune a station by step. The unit will revert back to Auto Tune mode after 5 seconds without use.

4. Manual Station store

Select the desired band and tune to a radio station to be memorized. Choose the preset button memory location span 1-6 into which the station is to be stored and press and hold that preset button for 2 seconds.
The station will now be entered into the preset memory. 6 stations can be memorized on each of the FM1, FM2, FM3, AM1, AM2 bands.

5. A.P.S - Auto Store function (15)

In Radio mode, press A.P.S button (15) to scan the preset stations in each band. It would play each preset station for about 5 seconds. At the desired station press A.P.S button again to stop scanning.
Press and hold A.P.S button (15) for approximately 2 seconds until you hear a beep which confirms the memory function is engaged. The unit will SEARCH for six strong stations and automatically store them on buttons 1 - 6. (FM/AM only)
You can override the preset station on any button by manually setting a new frequency.



1. POWER ON/OFF button (1)

Simply press the Power button (1) to turn the unit on and off.

2. SELECT button (2)

2-1 Audio control (VOLUME / BASS / TREBLE / BALANCE / FADER)

Press SEL button (2) repeatedly to select the desired mode in the following order:

BASS --> TREBLE --> BALANCE --> FADER--> EQ

At each feature, turn VOL knob (2) to adjust to the desired level. If the key or one of the keys is not pressed within 5 seconds, the radio automatically switches into volume control mode.

Please note that if an EQ setting is chosen, then you will not be able to access BASS and TREBLE functions. This is because the stereo has pre-chosen those levels for you. You may adjust BASS and TREBLE if EQ is in the OFF position.

a. BASS Control

To adjust the bass tone level, first select the bass mode by pressing button (2) until BASS appears on the display panel. Turn VOL knob (2) within 5 seconds to adjust the bass level as desired. The bass level will be shown on the display panel from a minimum of BASS -7 to a maximum of BASS +7.

b. TREBLE Control

To adjust the treble tone level, first select the treble mode by pressing button (2) until TREBLE appears on the display panel. Turn VOL knob (2) within 5 seconds to adjust the treble level as desired. The treble level will be shown on the display panel from a minimum of TREBLE -7 to a maximum of TREBLE +7.

c. BALANCE Control

To adjust the left-right speaker balance, first select the balance mode by pressing button (2) until BALANCE appears on the display panel. Turn VOL knob (2) within 5 seconds to adjust the left-rear speaker level as desired. The balance position will be shown by the bars on the display panel from BALANCE L10 (full left) to BALANCE R10 (full right).

d. FADER Control

To adjust the front-rear speaker balance, first select the fader mode by pressing button (2) until FADER appears on the display panel. Turn VOL knob (2) within 5 seconds to adjust the front-rear speaker level as desired. The fader position will be shown by the bars on the display panel from FADER F10 (full front) to FADER R10 (full rear).

e. EQ Control

To adjust the EQ selection, first select the EQ mode by pressing button (2) until EQ appears on the display panel. Turn VOL knob (2) within 5 seconds to select an equalizer curve from 4 music types (FLAT, CLASSIC, POP, ROCK).

EQ OFF : Cancel the sound feature.

FLAT : Normal operation mode.

CLASSIC : For the dramatic depth of classical music in an auditorium.

POP : For the electric excitement of stadium pop.

ROCK : For the subtle extension of the music.

2-2. I-VOL, AREA, BEEP 2ND Selection

When the SEL button (2) is held over 2 seconds, the unit will enter into a submenu.

Once entered, a single press of the SEL button will result in the following functions:

I-VOL --> AREA --> BEEP 2ND

a. I-VOL Control

I-VOL is the volume level the unit will play when the unit is first turned on. To adjust the I-VOL level, first select the I-VOL mode by pressing button (2) until I-VOL appears on the display panel. Turn VOL knob (2) within 5 seconds to adjust the I-VOL level from a minimum of I-VOL 00 to a maximum of I-VOL 45. This feature controls the max volume level desired when powering the unit on. This unit also incorporates memory retention. For example, if you power the boat off at volume 45 and your initial volume setting was at 30, the unit will turn back on at 30. If however, you power the boat off at volume 15 and your initial volume setting was at 30, the unit will turn on at 15. The unit will always remember the lowest volume as a way of protecting your hearing.

b. AREA Control

To adjust the area selection, first select the area mode by pressing button (2) until AREA appears on the display panel. Turn VOL knob (2) within 5 seconds to select between EUR and USA.

c. BEEP Control

To adjust the beep mode, first select the beep mode by pressing button (2) until BEEP appears on the display panel. Turn VOL knob (2) within 5 seconds to select between BEEP 2ND, BEEP ON, and BEEP OFF. Select BEEP 2ND when you wish to hear BEEP sound whenever any button is pressed for more than 2 seconds. Select BEEP ON when you wish to hear BEEP sound whenever any button is pressed. Select BEEP OFF then no beep sound would be heard.

3. VOLUME Control (2)

Simply turn the spindle knob (2) to increase or decrease volume. Current volume setting is briefly indicated on the display panel from 00 to 45.

4. MODE Selection (3)

Press MODE button (3) to cycle through available program sources as follows:

RADIO --> CD --> AUX.

5. MUTE button (7)

Simply press MUTE button (7) to mute sound output. Press it again to resume sound output.

6. CLOCK/TIME Adjustment

In Radio mode, press DIS button (14) once to display the time.

A. Press and hold the DIS (14) button until time flashes on the display.

B. Turn VOL knob (2) clockwise to set hour.

C. Turn VOL knob (2) counter-clockwise to set minute.

D. Press the DIS (14) button again quickly to accept the adjusted time.

If no button is pressed within 5 seconds, then the unit would automatically accept the adjusted time without further intervention from the user.

7. LOUD Control

When listening to music at low volume levels, this feature will boost the bass and treble response. This action will compensate for the reduction in bass and treble performance experienced at low volume. Press the LOUD button (16) once to turn LOUD ON, LOUD icon would appear on the display panel. Press the LOUD button (16) once again to turn LOUD OFF, and LOUD icon would disappear from display panel.