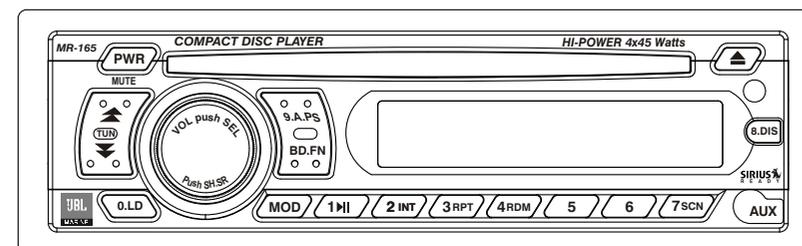




Operation Manual for Users

Model No.: MR-165



This product is sold and serviced exclusively by Prospec Electronic 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. All products sold and serviced exclusively by Prospec Electronics Inc.
For service contact us: 3325 South Morgans Point Road Mount Pleasant SC 29466
Tel 843-849-9037 Fax 843-849-9054

!!!!!!! ATTENTION !!!!!!!
THE RESET BUTTON MUST BE PRESSED.
TO ENSURE PROPER OPERATION
SEE INSTRUCTION MANUAL.

Effected 30 / Oct. / 09

Table of Contents

Wiring Identification	2
Important Notes	3
Installation	4
Supporting the Unit	5
Identification of Control Functions	6
Controls	7-9
Radio Section Operation	10
CD Player Operation	11
IPOD Operation	12
Trouble Shooting Guide & Specifications	13
Quick Reference Guide for Sirius	14

PLEASE NOTE: In order to receive Sirius Satellite radio broadcast, you must install SCC-1ML as well as a satellite antenna (both sold separately).

What is SIRIUS Satellite Radio?

SIRIUS, headquartered in New York, offers over 120 channels of digital quality radio transmitted across the continental US from three high-tech satellites. Along with offering a full spectrum of music genres, users can also listen to popular news, entertainment and sports channels. SIRIUS currently offers 65 music channels, 24 news channels (including traffic and weather), 7 sports channels (including two dedicated play-by-play channels) and 24 talk / entertainment channels. For more information on SIRIUS, visit siriusradio.com.



Quick Reference Guide for Sirius

1. To Access Satellite Radio

Press MODE button until SIRIUS appears on the LCD.

2. For Direct Channel Entry

While in SIRIUS mode, press and hold MODE button for over 1.5 seconds to enter Direct Mode. At that point, the display will show "Channel_ _ _". Simply enter the desired number to go directly to the channel (example: 123).

3. To Access SIRIUS ID number

In SIRIUS mode, press MODE button for over 1.5 seconds, "Channel_ _ _" will display on LCD, enter "000" to display your SIRIUS ID number. "SID" followed by 12 digits will appear on the LCD. Or simply use the TUNE up/down buttons to navigate to channel 000.

4. To Enter Category Mode

While in SIRIUS mode, press BD/FN button for over 1.5 seconds to enter Category mode. The Category icon will appear on the LCD. Momentarily press Tune up/down button to switch between category channels. To change categories, press and hold Tune up/down button for 1.5 seconds, then repeatedly press this button until your desired category is displayed. To return to Direct mode, press and hold BD/FN button until the display says DIRECT.

5. To Preset Channels (up to 20 presets):

You can save up to 20 channels in the memory for direct mode and up to 10 channels in category mode. There are two possible ways to preset:

- Press MODE button for over 1.5 seconds until "Channel_ _ _" displays on LCD. Then use the numeral keys to directly enter what ever channel you would like to store (example:104). Press the preset button where you would like to store the channel for over 1.5 seconds to save it to memory.
- Use TUNE UP/DN button to find a channel you would like to store. Press the preset button where you would like to store the channel for over 1.5 seconds to save it to memory.

6. To Display Song Title or Artist

In SIRIUS mode, press SEL until "SHIFT" displays; then rotate VOL counter clockwise to display SHIFT icon. Press the SEL button until you have chosen the desired display field (Artist, Song, Composer, Ect.)

7. For Parental Lock Out Programming

- In SIRIUS mode, select the channel that you want to lock out. Press SEL button to display SHIFT, then rotate VOL counter clockwise to display SHIFT icon on LCD. Now simply press numeral 5 button. It has been locked when "Locked Channel" appears on the display.
- To temporarily unlock a channel, manually tune to the channel. When prompted, the display will read CHANNEL LOCKED, then it will display CODE. Enter your password and the channel will be unlocked until you change to another channel.
- To permanently unlock a channel, after temporarily unlocking the channel press SEL button to display SHIFT, then rotate VOL counter clockwise to display SHIFT icon on LCD. Now simply press numeral 5 button. Then enter your password again, the channel becomes totally unlocked when "LOCK RELEASE" displays.

8. To Change the Password (CODE)

In Sirius mode, press and hold SEL button, then momentarily press SEL repeatedly until CODE displays on LCD. Enter your current password first, once you see NEW CODE displays, enter your new 4-digit password. Now display will show UPDATE CODE, it means the system accept your new password.

Note: If power is completely removed from stereo, the password will revert back to 0000.

Trouble Shooting Guide

INTERFERENCE ON RADIO

- Poor atmospheric conditions - Try again later in the day.
- Antenna / lead broken or damaged.

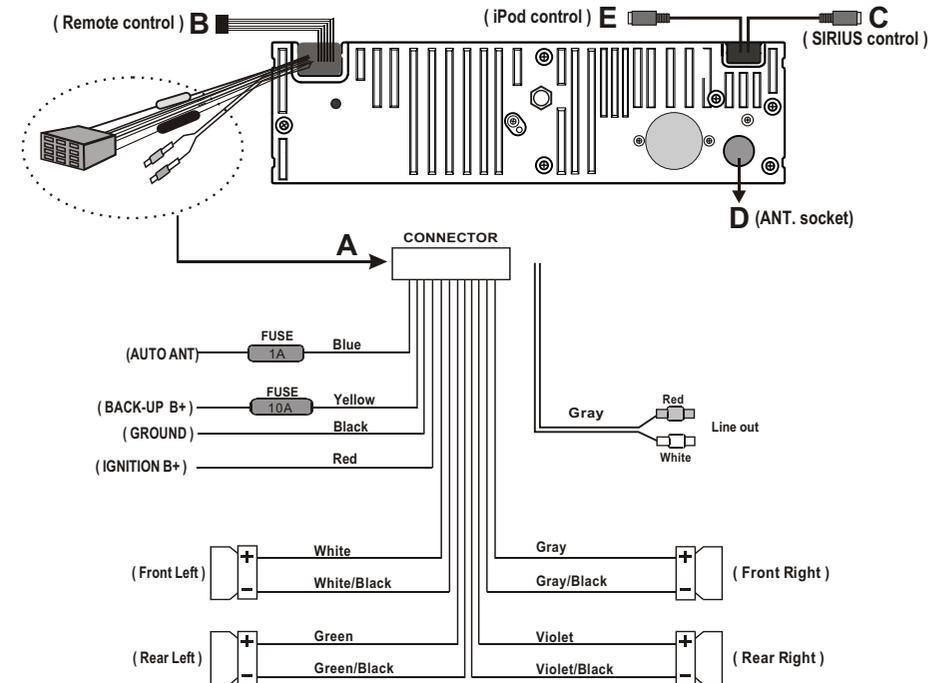
DISTORTED AUDIO

- Check loudspeaker wiring.
This product contains a biamp. It is important not to connect the front loudspeaker ground to the rear speaker ground.
- Faulty loudspeaker.
- Distortion at highest volume levels may be normal, as amplifier has reached maximum power output. Otherwise the power and ground wire's gauge might be too small (use 10amp cable or more).
- Reduce the bass effect or switch off the loudness mode.
- Battery and or charging circuit may be faulty.

Specifications

FM TUNER	AM TUNER
Tuning Range : 87.5~107.9MHz(USA) 87.5~108MHz (EUR) Sensitivity : 10dB / uV Separation : 30dB	Tuning Range : 530~1710KHz (USA) 522~1620KHz (EUR) Sensitivity : 35dB / uV
COMPACT DISC	AUDIO AMP & GENERAL
Freq. Response : 20 Hz-20 KHz Total Harmonic Distortion : 0.8% Signal - Noise Ratio : 65 dB Dynamic Range : 90 dB	Power Output : 4 x 45 watts Power Supply : DC + 12V Negative Ground Speaker Impedance: 4 ohm

Wiring Identification



Installation Notes

Applicable to both 2 and 4-speaker connection:

- Connections
- Amp cable connection for remote control
- Din cable connection for SIRIUS control
- Antenna socket
- Din cable connection for IPOD control

This radio contains four separate power amplifiers. To prevent possible damage to these amplifiers, please ensure the following:

- The Vehicle chassis is not used as a loudspeaker ground(-).
- Front and Rear loudspeaker connecting wires are not joined together.
- Any wires not used when completing a two speaker installation are fully insulated.
- The memory wire (yellow) is connected to a permanent + 12V supply.
- The power wire (red) is connected via the ignition switch of the Vehicle.

Important Notes

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 CD receiver to the Vehicle's electrical system is poor or that the battery needs recharging.

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

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

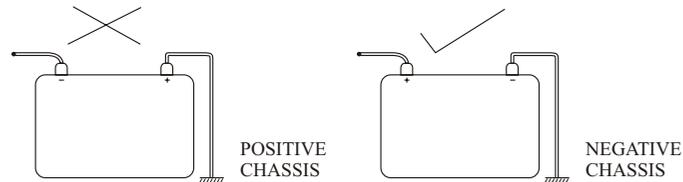
1. Grounding

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

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

2. Warning: polarity...

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



3. Connecting the speakers and power cables

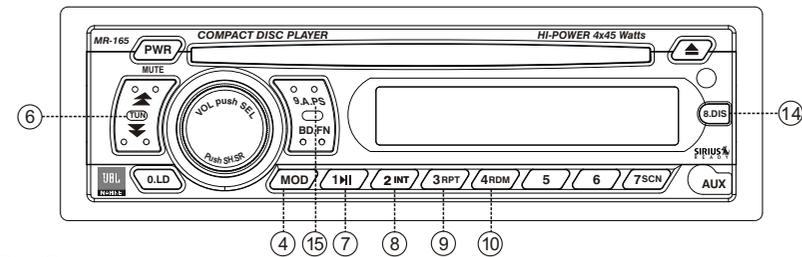
Before you wire your system, disconnect your Vehicle battery's positive (+) cable. This helps prevent damage in case of a short. When you complete the wiring, reconnect the battery cable and test your marine stereo. When connecting your marine stereo's black ground wire, be sure to connect the wire to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

4. Reset Function

A microprocessor reset function has been provided to facilitate manual resetting of the internal microprocessor. If you are faced with a malfunction during the operation, press and hold MODE and BD/FN button simultaneously for about 3 seconds to reset the unit.

Note: It will be necessary to re-enter the radio preset memories and other personal settings as these will have been erased when the microprocessor was reset. After resetting the player, ensure all functions are operation correctly.

i-Pod Operation (i-Pod purchased separately)



1. i-Pod Operation

Press MOD button (4) to select i-Pod mode.

* An i-Pod must be connected, if you want to operate i-Pod function. The iPod icon would display on LCD once an iPod is connected.

2. Play / Pause button (7)

Press this button to pause playing. Press this button again to resume play.

3. Repeat play button (9)

Press the RPT button to hear the current track play repeatedly.

Press the RPT button again to return to normal play.

4. Random play button (10)

Press the RDM button to play all tracks (within the current playlist) in random sequence.

Press the RDM button again to return to normal play.

5. ID3 Display button (14)

While playing i-Pod, press the DIS button repeatedly to display the ID3 attributes in the following order: TITLE --> ARTIST --> ALBUM --> CLOCK --> ELAPSE TIME --> TITLE

6. Track Seeking (6)

- To select the next track, press the TUNE up button once. When the final track is reached, play will resume on track #1.

- To select the previous track, press the TUNE down button.

Note: The current track will revert to the beginning when you press the tune down button once.

If you want to select the previous track, press the button once again within 2 seconds.

- To fast forward through tracks: press and hold the tune up button.

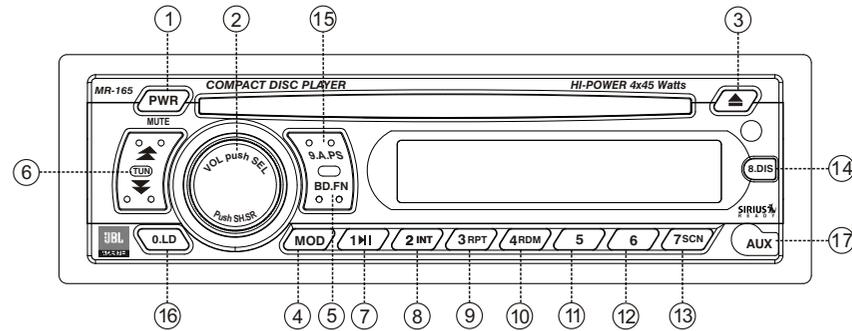
- To rewind the current track: press and hold the tune down button.

7. A.P.S button (15)

Briefly press A.P.S button to display MUSIC first and then scroll Playlist. Rotate VOL knob to select from Artists, Albums, Generes, Songs, Composers, Audio- books, Podcasts, ets, and press the BD/FN button to acknowledge. Once again, rotate VOL +/- to choose from the available tracks and press the BD/FN button to begin playing the selected track.

Note: In some cases, or if available, it will be necessary to choose from sub-directories, i.e., artist, album, etc., before finally selecting the desired track. Use the VOL knob to scroll through the available sub-directories and acknowledge the the appropriate selection using the BD/FN button. Repeat these steps until the desired track is finally available and use the BD/FN button to begin playing.

CD Player Operation



1. CD Player Operation

Press MOD button (4) to select CD mode.

2. Track seeking (6)

While a track is playing, press Tune Up button to select the next track, press Tune Down button to select the previous track.

While a track is playing, press and hold Tune up/down button to fast-forward or fast-rewind.

3. Play / pause (7)

Press this button to pause playing. Press it again to resume play.

4. Intro Scan (8)

Press the INT button to hear the first 10 seconds of each track.

Press the INT button again to return to normal play mode.

5. Repeat Play button (9)

Press the RPT button to play the current track repeatedly.

Press the RPT button again to return to normal play mode.

6. Random play button (10)

Press the RDM button to play all tracks on a CD in random sequence.

Press the RDM button again to return the player to normal mode.

7. EJ button (3)

Briefly press the EJ button to eject the disc.

Installation

1. Precautions

Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the Vehicle.

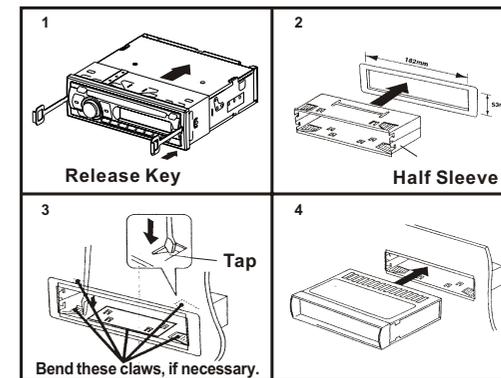
Avoid installing the unit where it would be subject to high temperature (such as from direct sunlight or hot air) or where it would be subject to dust, dirt or excessive vibration. Use only the supplied mounting hardware for a safe and secure installation.

2. Mounting angle adjustment

Adjust the mounting angle to less than 20 degrees from the horizontal position.

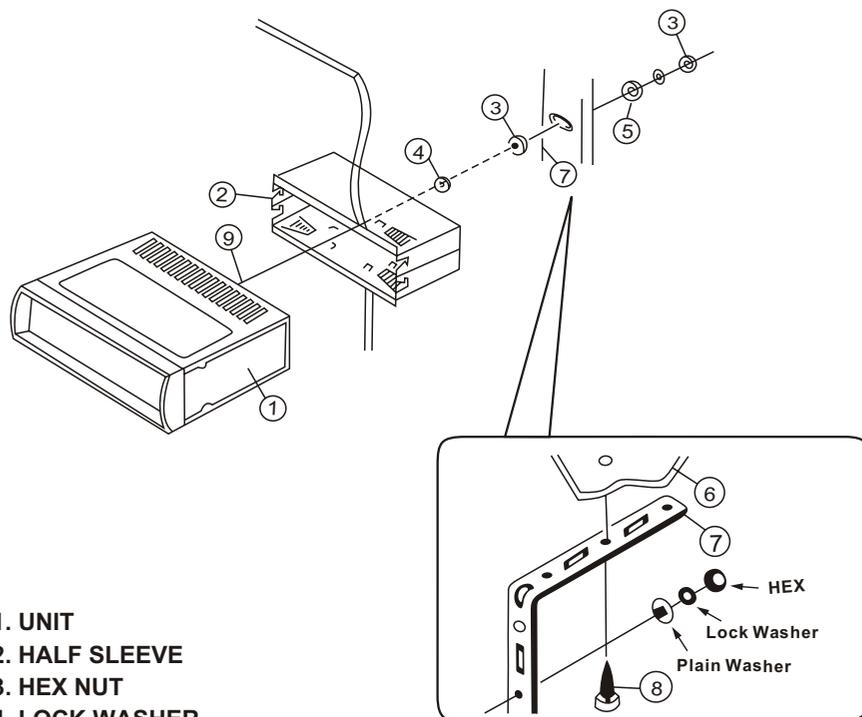
3. Mounting example

<< Installation in the cabinet >>



【Note】 Keep the release key in a safe place as you may need it in future to remove the unit from the Vehicle.

Supporting the unit



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

■ Accessories subject to change without notice.

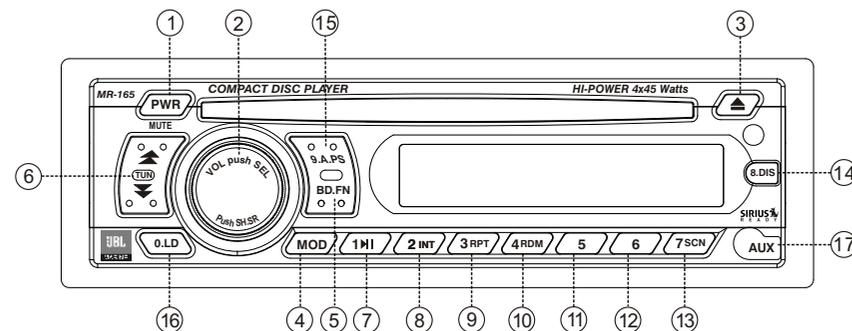
1. Fuse replacement

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.

Radio Section Operation



1. Radio Operation

Press MOD button (4) to select Radio mode. Station frequency is indicated on display.

2. To Select Band

Press the BD.FN button (5) to select the desired band FM1, FM2, FM3, AM1 or AM2.

3. Auto / Manual Tuning buttons (6)

Press this button quickly to activate the Auto tuning mode. The unit will automatically seek up or down the wave band and stop at the next station of sufficient signal strength.

Press and hold tuning button (6) for 2 seconds to enter Manual tuning mode. The unit will seek up or down the wave band in steps.

4. Station Store function

- *Manual Station Store:* Select the desired band and tune to a radio station to be memorized.

Choose the preset button (buttons 1-6) into which the station is to be stored, press and hold that preset button for 2 seconds or until the corresponding preset number is shown on the display.

- *Auto Station Store:* Press and hold A.P.S button (15) for approximately 2 seconds until you hear a beep sound which confirms the memory function is engaged. The unit will "SEARCH" for six strong stations and automatically store them on buttons 1-6.

6 stations can be memorized on each of the FM1, FM2, FM3, AM1 & AM2.

5. To Recall the Preset Stations

- Briefly press the preset buttons 1-6 to recall the memorized radio station in that button.

- Briefly press A.P.S button (15), the unit will search all preset stations. Each preset can be heard for 5 seconds. After that the unit will begin searching again. All presets are searched ie- FM1, FM2, FM3, AM1 and AM2. At your desired preset station, press the A.P.S button to stop search.

6. Scan function (13)

In Radio mode, press the SCAN button to scan strong stations. At desired station press the SCAN button again to stop scanning.

7. Stereo - / mono - reception

The unit automatically receives radio stations in stereo mode if the current station is broadcasting in stereo; otherwise, mono will be used. The stereo indicator will show on the display if the current radio station is broadcasting in stereo.

Controls (continued)

5. BD/FN button (5)

In Radio mode, pressing the BD/FN button (5) will shift FM/AM bands:

FM1 → FM2 → FM3 → AM1 → AM2.

In SIRIUS mode, press the BD/FN button (5) to select SSR1 or SSR2.

6. Setting the Clock - DIS button (14)

1) After your unit has been installed in the Vehicle, turn power on, the radio frequency will appear on the display.

2) Press DIS button once to display time mode.

Press DIS button once again (within 5 seconds) and hold until the displayed time begins to blink.

3) Turn the spindle knob left to set the minutes.

4) Turn the spindle knob right to set the hour.

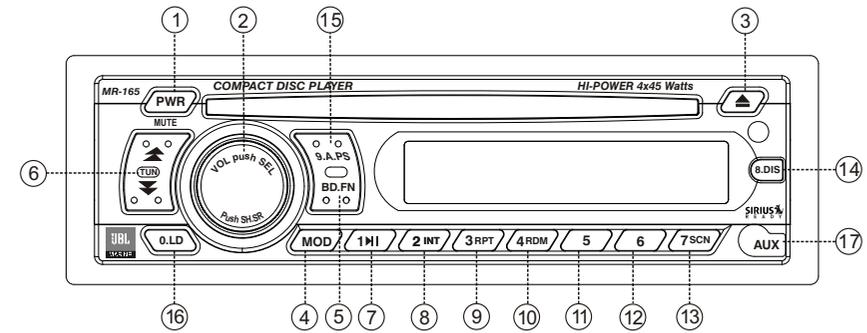
5) Once the adjustment is completed, press DIS button to accept the adjusted time.

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

7. LOUD button (16)

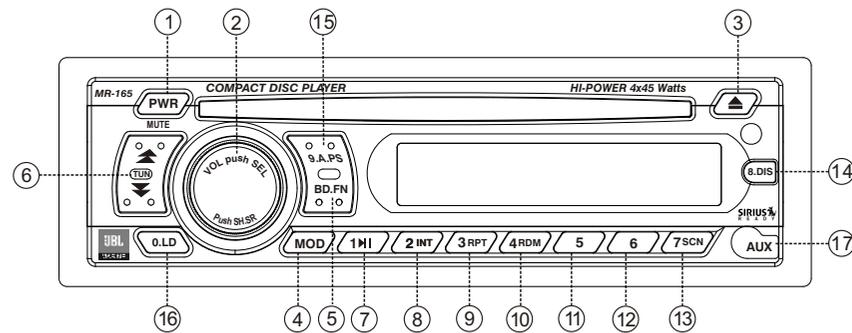
In order to emphasize the bass and the treble at low volume, press the LD (16) button. To turn off loudness, press the LD button again.

Identification of Control Functions



1. POWER ON/OFF button
2. Electronic function SELECT button, Volume control knob
3. CD eject button
4. MODE button (Radio → CD → IPOD → SIRIUS → AUX IN)
5. BD/FN button
6. Radio tune UP/DOWN, CD track UP/DOWN
7. CD play / pause, radio preset 1 button
8. CD intro Scan button, radio preset 2 button
9. CD repeat track button, radio preset 3 button
10. CD random play button, radio preset 4 button
11. Radio preset 5 button
12. Radio preset 6 button
13. SCN button (#7 SIRIUS only)
14. DIS (display) button (#8 SIRIUS only)
15. A.P.S - Auto Preset Scan button (#9 SIRIUS only)
16. LOUD (loudness) button (#10 SIRIUS only)
17. AUX IN

Controls



1. POWER ON/OFF

Press the button (1) to turn on the unit. Press the button again to turn off the unit.

2. SELECT Button (2)

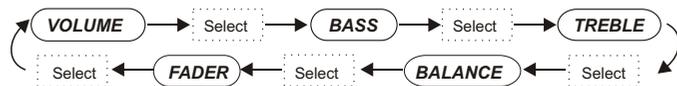
1) Audio control (VOLUME / BASS / TREBLE / BALANCE / FADER)

Press key quickly to select the following features;

- "VOL" display - volume control > press key (2)>
- "BAS" display - bass tone control >press key (2)>
- "TRB" display - treble tone control > press key (2)>
- "BAL" display - balance control > press key (2)>
- "FAD" display - fader control > press key (2)>

If the key or one of the keys is not pressed within 5 seconds, the radio automatically switches into volume level control mode.

These settings are indicated on the display window.



2) Beep 2nd , I-Vol , Area Selection

When the button is pressed over 2 seconds, the unit will be operated as below:



a. Beep 2nd

On the beep 2nd, you can control the beep on or beep 2nd by turning the spindle knob.

- Beep on : You can hear "beep" sound when you press all buttons.
- Beep 2nd : You can hear "beep" sound when you press the button over 1.5 secs.

Controls (continued)

b. I-Vol

By pressing the button again, the unit will be in I- VOL mode. (Initial Volume Level Adjustment). You can adjust the I-Vol by turning the spindle knob. After the setting of initial levels, when the unit is power on/off, detach on/off, and ACC on/off, if the present level is lower than Initial level, it will keep the present level. And if the present level is higher than initial level, it will be automatically adjusted to the preset level.

c. Area Selection

By pressing SEL button again, the unit will be in Area Selection mode. Use the spindle knob to choose USA or EUR (Europe). Press and hold the BD/FN button for 1-2 seconds to set the format.

d. DSP

By pressing SEL button again, the unit will be in DSP mode. The (DSP=IEQ) feature creates a realistic atmosphere for the style of music you select using the latest digital sound technology.

You can select the following features with the spindle knob :

- "FLAT" display - normal operation mode
- "CLASSICS" display - for the dramatic depth of classical music in an auditorium
- "POP M" display - for the electric excitement of stadium pop
- "ROCK M" display - for the subtle extension of the music's dimensions
- "IEQ OFF" display - cancel the sound feature

3. Volume control

Turn the spindle knob (2) left or right to decrease or increase the volume level.

Switching on your radio automatically allows you to set the volume level without having to select it first. Simply turn the spindle knob to set the desired level.

- Bass control
Turn left to lower the bass.
Turn right to increase the bass.
- Treble control
Turn left to lower the treble.
Turn right to increase the treble.
- Balance control
Turn left to decrease the right speaker volume.
Turn right to increase the left speaker volume.
- Fader control
Turn left to decrease the volume level of any loud speakers connected to the front channel.
Turn right to decrease the volume level of any loud speakers connected to the rear channel.

4. MODE Button (4)

Press this button to select radio, CD, IPOD, SIRIUS and AUX.