

OPERATION MANUAL



- DIGITAL AUDIO PLAYER
- AM/FM STEREO
- USB
- BLUETOOTH CAPABLE
- HEADPHONE OUTPUT

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TROUBLESHOOTING:

Can not read some USB devices

The unit is not 100% compatible with all USB devices or the USB device has a special format. Try to format the USB device in FAT 16/32 standard.

Can not play certain songs with specific formats that are downloaded from websites

Example: iTunes, which is in DRM (digital right management) format is not supported by the current unit while in USB mode.

Unit takes about 60 seconds to recognize USB device

It's normal. The unit sometimes takes longer to read all the files on the USB device

LCD cannot display the MP3 song name correctly

The songs are in a foreign language or not in ID3 tag format

Power does not turn on (no sound)

Check the wire. Check the unit fuse and if fuse is blown, simply replace with new fuse. If problem occurs again, consult the dealer.

No sound output when operating the unit with amplifiers or power antenna is attached

Power antenna lead is shorted to the ground or excessive current is required for amplifiers or power antenna

Button is not responsive or the LCD display is wrong

The connection pins for the front panel may be dirty. Use a soft cloth to clean it's surface. If this does not fix the problem, please consult your dealer.

Unit picks up engine noise

Check the ground wire

After the power is turned on, the unit power turns off immediately

The battery may be too low (operating voltage is 11V to 16V). If the unit still cannot turn on, please consult your dealer.

WARRANTY INFORMATION:

Should this product require service, you may obtain specific information by contacting the dealer from whom this product was purchased.

For any service related questions, please call our technical service team.

Technical Support Phone Number:843-849-9037

SPECIFICATION

FM Specification

Frequency Range	87.5-107.9MHz
Channel step	200KHz
Sensitivity	10dB
Signal to Noise Ratio	55db
Tuning	European or USA

AM Specification

Frequency Range	530-1710 Khz
Channel step	10KHz
Usable Sensitivity	32dBuv
Signal to noise Radio	50dB

LINE OUT

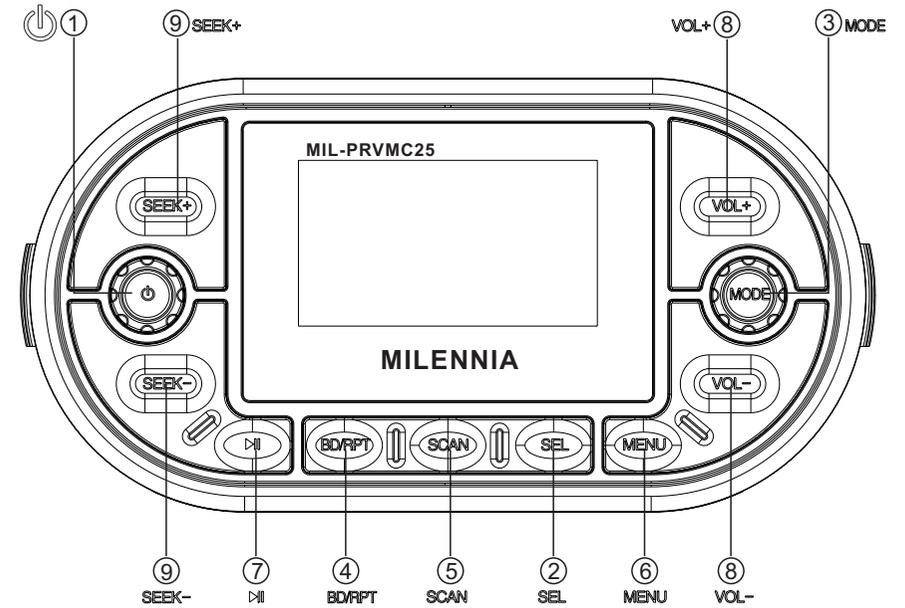
Output	2Volt (max)
Impedance	33ohm

GENERAL

Operating temperature	0°C (32°F) to 50°C (122°F)
Storage temperature	-25°C (-13°F) to 85°C (185°F)
Humidity	up to 85%RH, non condensing
Waterproof level	BLACK BOX IP-66 COMMANDER IP-67
Voltage input	12V DC (10~14.5V allowable)
Current input	10A peak
Output power	4x45
Impedance	4 or 8 ohms
Weight	2lbs(0.75kg)
Dimensions (W*H*D)	
Black Box	(210mm*92mm*57mm)
Commander	(140mm*71mm*18mm)

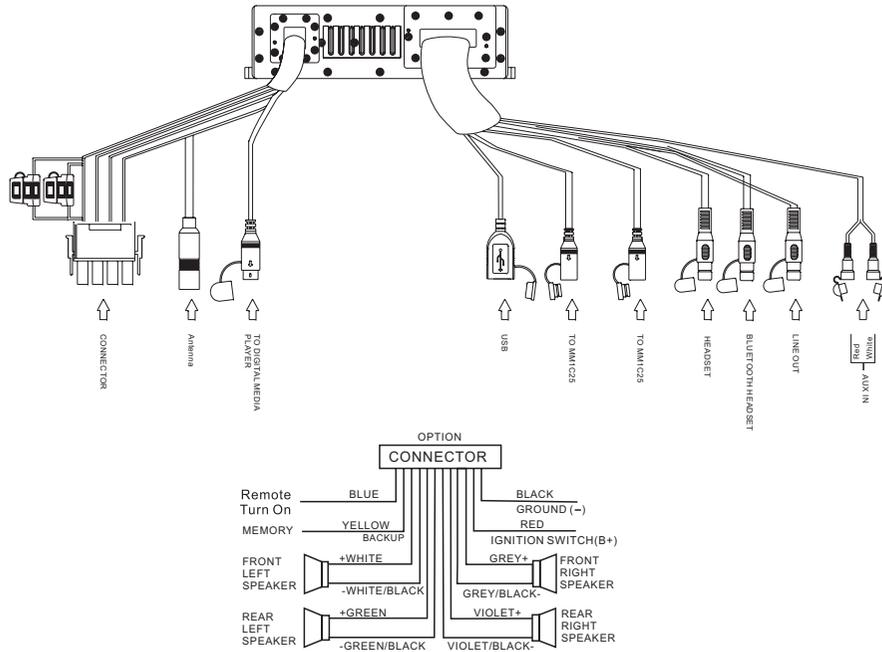
Note: Specifications and design are subject to modification without notice due to improvement.

CONTROL PANEL ILLUSTRATION



1. POWER ON/OFF
2. FUNCTION SELECT BUTTON
3. MODE BUTTON
4. BAND BUTTON, Track Repeat Button
5. SCAN BUTTON
6. MENU
7. PLAY/PAUSE
8. VOLUME UP/DOWN
9. RADIO tune UP/DOWN button, USB/iPod track UP/DOWN button

WIRING DIAGRAM



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 repair center.

Warning:

Only replace fuse with the same type and rating. Use of a different type or rating may cause serious damage/safety concerns.

Search function

Move cursor to SEARCH and press SEL to enter search function, the unit can search all the songs titles started with the specified word (only character 0~9 and a~z is supported).

For example, if you want to search songs started with character "M", press VOL+/- button until the character "M" displayed on LCD, and then press "SEL" button. The songs whose title starts with M will be searched and displayed on LCD, You can then press VOL+/- button to select.

Note: it always takes more time for searching all the song in the USB drives especially when the USB drive size is big.

iPod Operation (Additional cable required for iPod connectivity "Milliplug")

Connecting iPod

You may connect your iPod through an iPod port at the back of your unit, This cable can be purchased through your nearest dealer/distributor or through www.prospecelectronics.com

Playing songs in iPod

- 1, Press MODE repeatedly until iPod is displayed on LCD, the unit will play iPod automatically.
- 2, Press **||** button to pause playing and press again to resume.
- 3, Press MENU to access iPod menu, you can select between PLAYLIST, ARTIST, ALBUM, GENRE, SONGS by pressing VOL+/- button, and then press SEL to select the folder or play the songs. When you are selecting between the menus, simply press MENU button to return to up one level menu, simply press MENU button to go back one screen at a time.
- 4, Press and Hold SEEK+/- button to fast forward/rewind the song playing.
- 5, Press BD/RPT button to select iPod repeat mode.

AUX IN PORT

For connecting iPod, MP3 players and other portable media players.

Auto Scan

In tuner mode menu, select the Search Stations, the radio will search the 15 strongest stations (FM mode) or 10 strongest stations (AM mode), and store them to the presets.

Preset Scan

In tuner mode menu, select Preset Scan, the radio will scan all the stored stations on current band, and play for 5 second at each station.

USB Operations

Connect your USB drive to the USB port at the rear of the unit.

Press MODE button repeatedly until USB mode displayed on LCD, the unit will start playing the audio files in the USB drive.

Listening to the music,

1, Play/Pause (7)

Push to pause playing in USB mode, and push again to resume play.

2, SCAN (5)

Press this button to listen to the first 10 seconds audio of each track. Press this button again to restore the player to its normal play mode.

3, BD/RPT (4)

Press this button while playing a desired track to play the track repeatedly.

Press BD/RPT button again to return to normal play mode.

4, MENU (6)

There are four modes in USB menu list: FILE LIST, FOLDER LIST, RANDOM, SEARCH. Press VOL+/- button to move the cursors and Press SEL button to select.

FILE LIST

In files list mode, all the audio files in the USB drive will be displayed on the LCD, press VOL+/- and SEL button to select a button to play.

FOLDER LIST

In folder list mode, all the folders in the USB drive will be displayed on the LCD, press VOL+/- and SEL button to browse the audio files in the folder. Then press VOL+/- again to select a desired button, and press SEL button to play.

RANDOM PLAY

Simply pressing SEL to turn RANDOM PLAY ON/OFF when the cursor is moved to RANDOM mode.

INSTALLATION

1. Precautions

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

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.

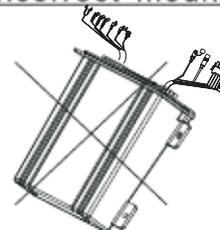
2. Mounting illustration

Correct mounting positions

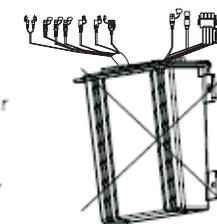


Best:90 facing upward

Incorrect mounting positions



Do not mount black box in either of the following positions as this will allow water to intrude and will result in damage to the unit.



Basic Operations:

POWER ON/OFF (1)

Press this button to turn the unit on or off

SELECT(2)&VOLUME UP/DOWN(8)

Repeatedly press SEL button to access audio settings, press VOLUME UP/DOWN to move the cursors to the settings below:

BASS, TREBLE, FADER, BALANCE, EQUALIZER, LOUDNESS, SPEAKER

Press "SEL" button to enter into the mentioned audio settings. Once the particular audio setting has been selected, use the "VOL" buttons to adjust up or down.

Press and Hold "SEL" button for 3 seconds to enter system settings.

Press Volume buttons to move up or down to access the following functions:

BLUETOOTH, DIMMER, TUNER REGION, CLOCK, VERSION, RESET.

Then, use the "SEL" button to access the particular function desired.

Bluetooth Operations:

The PRV BLACK BOX supports an external bluetooth module that can stream audio to your external Bluetooth headset. The headset must be paired to the stereo receiver. Let's go through this process:

- 1) Hold Select button for 3 seconds until sub menu appears. Bluetooth will be the first option that comes up. Press Select button again to enter into the Bluetooth category. When the Bluetooth is turned on, a small Bluetooth icon will be displayed at the top right corner. The icon will keep blinking until a Bluetooth headset is connected/paired.
- 2) The screen that you are now in will enable you to activate Bluetooth. The "BLUETOOTH" category must be turned on and the device must be paired through the "SEARCH DEVICES" menu.
- 3) When in Bluetooth headset mode, one can choose to either leave on the external speakers (if connected) or turn them off. To turn off, push the SEL button to enter into Audio settings. Then use the Volume- button until the "Speaker Mute" category is reached. Then, use the "SEL" button to mute the speakers.

Dimmer Settings:

The MM1 BLACK BOX supports 10 level dimmers, press VOL+/- to move cursor to DIMMER and press SEL to enter dimmer setting menu, press VOL+/- again to set the dimmer value.

TUNER REGION

The MM1 BLACK BOX can support USA and EURO frequency, Simply press SEL button to set USA or EURO frequency.

CLOCK Operation

There are two settings in Clock setting menu:

- 1, 12 hour/24 hour display mode switch, press SEL to change the clock display mode
- 2, Adjust the clock settings: the hours will blink at first, press VOL+/- to adjust the hour, and then press SEL, the minute will blink, press VOL+/- to adjust, and SEL to exit.

MODE button (MODE) (3)

Press to switch mode: TUNER/USB/AUX/IPOD modes.

MENU (6):

The MENU functions are different in different mode.

Radio Operation:

Listening to the radio

Press MODE (3) to select the radio mode, the frequency appears on LCD.

Press BD/RPT to select radio band FM→AM

Auto seek a station:

Press "SEEK+/-" button to start a seek.

Manual tuning

Press and Hold "SEEK+/-" button to change to manual tuning mode.

I cannot get Manual tuning to work.

Storing a scan

Press MENU, then press SEL+/- button to move cursor to SAVE CURRENT. Should you wish to save the current station, pressing the "SEL" button will add that station to a preset.

Note: there are 15 preset stations for FM and 12 preset stations for AM. When all the presets are full, user should remove a preset before storing a new one.

Moving to a preset

Press MENU, then press VOL+/- button to move cursor to RECALL, and then the preset list will be displayed on LCD. Press SEL to select one of the frequencies using the VOL+/- to scroll up or down through that preset list.

Automatically tuning control (SCAN)

In tuner mode, press SCAN button to scan the stations; the radio will play the searched station for 5 seconds before the next scan. Press SCAN again to stop scanning.