



**EX8503 DVD**

# **Owner's Manual**

**ESTONE**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance

could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a

Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio

frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However,

there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

**Note:** This product is the CAR DVD PLAYER and is designed for car usage only.

## Thank You!

Thank you for choosing an Estone product. We hope you will find the instructions in this owner's manual clear and easy to follow. If you take a few minutes to look through it, you'll learn how to use all the features of your new Estone receiver for maximum enjoyment.

Contents.....	1
Installation.....	2
Wiring.....	3
Basic Operation.....	4
Radio Operation.....	6
DVD/USB Operation.....	7
Remote contro.....	8
DVD Settings.....	9
Bluetooth Operation .....	14
Specifications.....	15

Features of the Estone EX8503 DVD mobile audio system include:

- Support DVD and DVD R/RW
- Support most USB devices
- Digital AM/FM Tuner
- Time/Alarm Clock
- Auxiliary Audio/Video Input
- Headphone Output
- 3 Zone / 8 Speaker Output
- Wireless Remote Included
- Digital input (PCM) & output
- HDMI output

# Installation

## Select Mounting Location

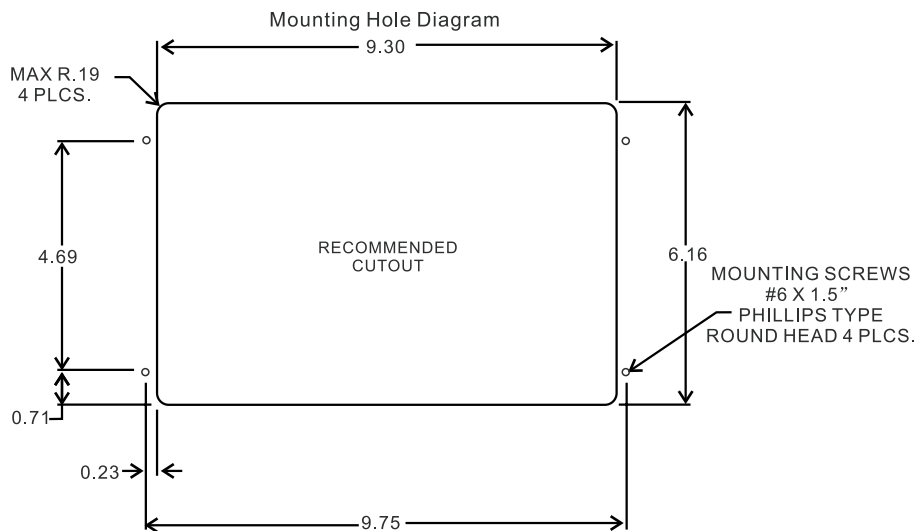
Select mounting location, taking care to avoid the following:

- Places exposed to heat-radiating appliances such as electric heaters
- Adjacent to other equipment that radiates heat
- Poorly-ventilated or dusty places
- Moist or humid locations

## Preparing the Opening

Use the mounting hole diagram(below)to measure and cut a mounting hole, and mount the unit using the four 3X30min self-tapping screws provided.

**Note:** Before cutting the mounting hole, make sure the area behind the mounting location is clear of wires and fuel, vacuum and or brake lines.



## Mounting the Radio

Route power, speaker and antenna cables through the hole, and connect them to the unit as outlined in the wiring diagram. After ensuring correct connections, test operation.

# Specifications

## General

Power Supply Requirements.....	DC 12 Volts,Negative Ground
Operating Voltage.....	11-16VDC
Overall Dimensions.....	308mm(W)X262mm(H)X218mm(D)
Mounting Dimensions.....	265mm(W)X177mm(H)X188.3 mm(D)
Weight.....	3.3kg

## FM Tuner

Tuning range.....	87.5-107.9FM
Sensitivity.....	<2.5uV
Stereo separation @ 1 kHz.....	>30dB

## AM Tuner

Tuning range.....	530-1710
Sensitivity.....	<15uV

## Amplifier

Output Power.....	35X8 Watts Total(35Watts per Channel)
Output Wiring.....	2/8 Speaker and Headphone System
Output Impedance.....	Compatible with 4-8 Ohm Speakers,4 Ohm Load Minimum
Total system power.....	35X8 Watts Maximum

## DVD

Frequency Response.....	20-20,000Hz
Channel Separation.....	50dB
S/N Ratio.....	70dB
Distortion.....	0.2%

Specifications subject to change without notice.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation

**Note:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the User's authority to operate the equipment.

## Bluetooth operation

### 1. ENTER(28)

When unconnected, Short press to enter pairing mode. "CONNING" will be displayed.

Long press to connect the last pairing unit automatically, After connects successful to be able to display "BT PLAY".

### 2. MENU(27)

Long press to disconnect when BT is connected. After disconnects to be able to display "BT NOCON".

### 3. PLAY/PAUSE(25)

Press this key to pause playing BT music and press again to resume.

### 4. STEP+/- (7)

Select previous/next program, but no ID3 display, just display "BT PLAY".

### 5. BAND(15)

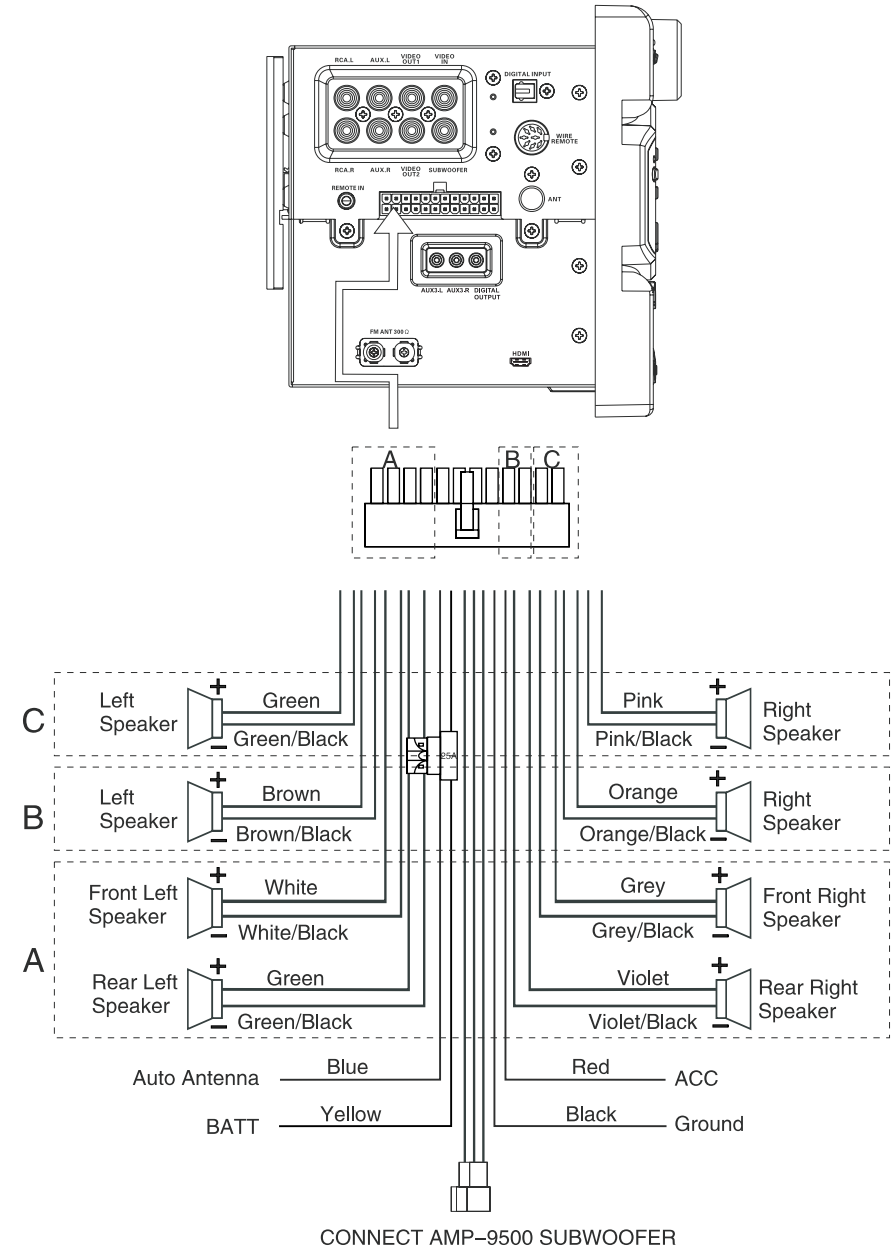
Short press to enter pairing code setting, LCD will display "CODE XXXX", press preset 1-6 or M0-M9 on IR remote to set the code. Then press "ENTER" or no operation for 5 seconds to confirm and return.

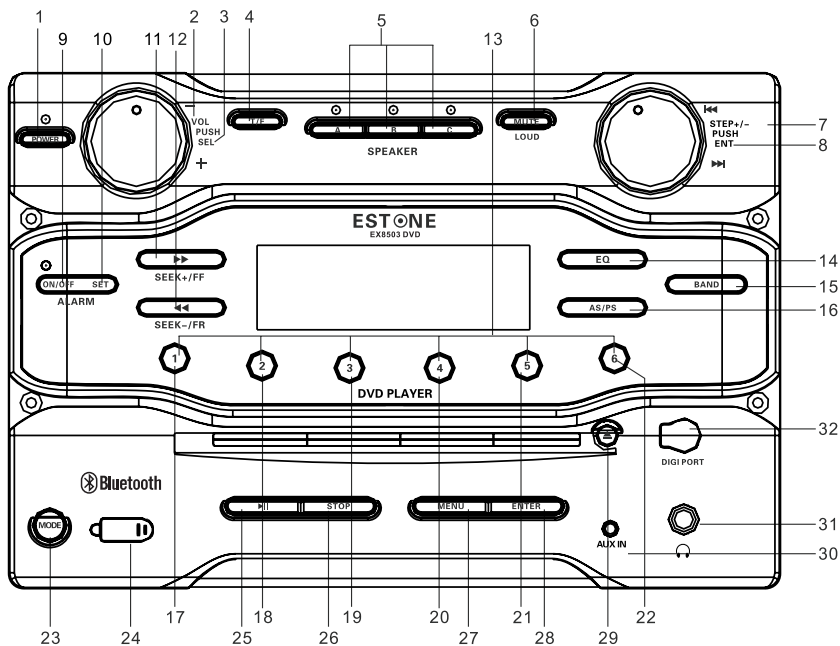
### 6. PRESET1-6(13)

Short press to set the pairing code.

## Wiring

The wiring diagram depicts all the wiring connections required for proper operation of the unit.





Long Press: press and hold more than 2 seconds.

Short Press: press less than 2 seconds.

## Basic Operation

1. Power(1): on/off
2. ALARM ON/OFF(9) :Press to turn on/off alarm function.
3. ALARM SET(10):This button can be used to adjust alarm time.  
Short press to display alarm time. The time display will be gone if no action within 5 seconds.  
While the alarm time is on display, the hour icon will blink with a long Press on this button. User can use SEEK+/- button to adjust hour.  
Press SET again,the minute icon will blink, user can use SEEK+/- button to adjust minute. The system will exit alarm setting function if user press some other key or there is no action within 5 seconds.
4. VOLUME(2): volume knob

## SHARPNESS



## Digital setup

The Digital setup menu controls the following features:



OP MODE: Adjust the output mode: LINE OUT or RF REMOD.

DYNAMIC RANGE: Adjust the DYNAMIC RANGE of the screen from the following levels: FULL,6/8,4/8,2/8 or OFF.

DUALMONO: Adjust the DUALMONO of the screen from the following levels: STEREO,MONO L,MONO R,MIX MONO.

## OP MODE



## DYNAMIC RANGE



## DUAL MONO





## Video Setup

The video setup menu controls the following features:



**BRIGHTNESS:** Adjust the brightness of the screen from the following levels:

12,10,8,6,4, 2 or 0.

**CONTRAST:** Adjust the contrast of the screen from the following levels:

12,10,8,6,4,2 or 0.

**HUE:** Adjust the contrast of the screen from the following levels: +6,+4,+2,

0,-2,-4,-6

**SATURATION:** Adjust the saturation of the screen from the following levels:

12,10,8,6,4,2 or 0.

**SHARPNESS:** Adjust the sharpness of the screen from the following levels:

8,6,4,2 or 0.

BRIGHTNESS



CONTRAST



HUE



SATURATION



5. PUSH SEL(3)  
Short press to select Volume Bass, Treble, Balance, Subwoofer or Fader.  
Use VOL+/- Knob to adjust value.  
Long press to enter zone selection and default volume settings.  
A: Zone: USA, China and Euro, default is USA.  
B: Default Volume Setting: in this mode, it will display P-VOL XX on the LCD.  
User can adjust the system default volume value by turning VOL +/- knob.  
The unit will exit this mode if user press some other key or there s no action within 5 seconds.
6. T/F(4): This button can be used to adjust system time.  
Short Press to display system time. The time display will be gone if no action within 5 seconds.  
While the system time is on display, the hour icon will blink with a long press on this button. User can use SEEK+/- button to adjust hour.  
Press T/F again,the minute icon will blink, user can use SEEK+/- button to adjust minute. The system will save current time and exit time setting function  
If user press some other key or there is no action within 5 seconds.
7. A/B/C(5): Speaker out.  
The three speaker output buttons control speaker output from the system. Press any of the three buttons to turn the corresponding speaker on or off. The red light above each button will illuminate when that speaker is turned on.  
A: Zone A Speakers, B: Zone B speakers, C: Zone C speakers.
8. MUTE(6)  
Short press mute on/off  
Long press turn on/off LOUD
9. EQ(14)  
Short Press to select between FLAT~CLASS~POP~ROCK  
When ID3 ON it will display ID3 information (title/artist/album etc. ) on LCD.
10. MODE(23)  
Switch between: RADIO, DVD(CD), USB, Digi-Port, AUX1, AUX2, AUX3, PCM, BT
11. Head phone jack(31): 6.0mm head phone jack.
12. AUX jack (30): Front audio in(AUX1).
13. Digi port(32): Support digital player directly play,audio in and charging

## Radio Operation

### 1、SEEK-(12):

Radio mode:

Short press: automatically seek the lower radio station.

### 2、SEEK+ (11) :

Radio mode:

Short press: automatically seek higher radio station.

### 3、PRESET 1-6(13)

#### (1) Store Preset station

Long press a preset button , the current station will be stored, and the corresponding preset number will appear in the display.

#### (2) Recall Preset Station

To recall a station, select a band (if needed).Press a Preset button momentarily and the unit will turn to the corresponding stored station.

### 4、STEP +/- (7) (the right knob)

(1) Short press: turn the knob to search radio stations manually.

(2) Long press: turn the knob to quick search radio stations.

### 5、AS/PS(16)

Automatically store

(1) Press AS/PS (16) for more than 2 seconds, and the unit will automatically scan and store the strongest stations in the FM/AM band. To stop this function before the automatic storing is complete, briefly press AS/PS again.

#### (2) Preset scan

Briefly press AS/PS to scan all preset stations in FM/AM band. The unit will play each station for five seconds before moving on to the next station. To stop this function before the scan is complete, briefly press AS/PS again.

### 6、BAND(15)

Band: FM1~FM2~FM3~AM1~AM2.

OSD LANGUAGE



AUDIO LANG



SUBTITLE LANG



MENU LANG



## Audio Setup

The audio setup menu controls the following features:



AUDIO OUT: Adjust the digital audio output format to following setting : SPDIF/OFF, SPDIF/RAW, SPDIF/PCM.

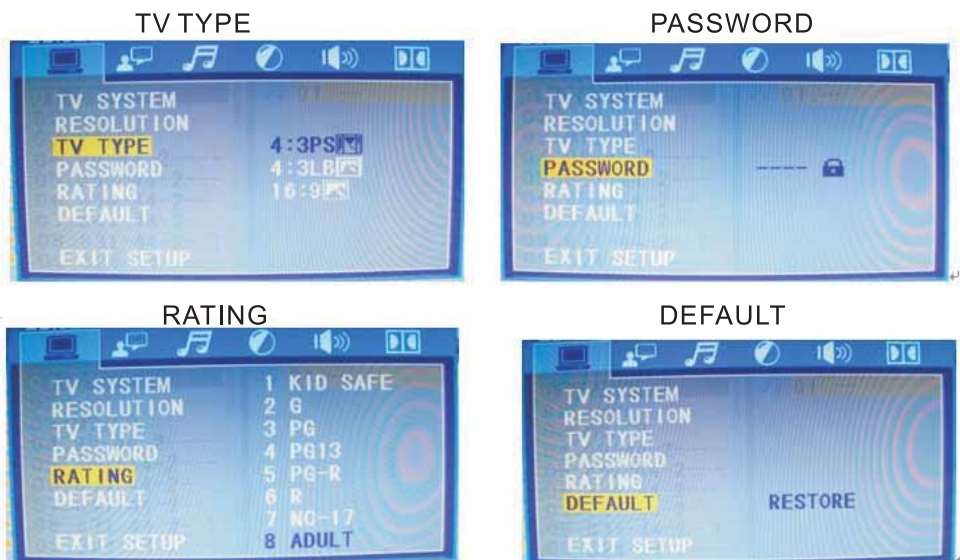
HDMI AUDIO: Select the HDMI AUDIO output: AUTO,PCM.

AUDIO OUT



HDMI AUDIO





## Language Setup

The language setup menu controls the following features:



OSD Language: Set OSD language.

AUDIO Language: Set the AUDIO language.

SUBTITLE Language: Set the SUBTITLE language.

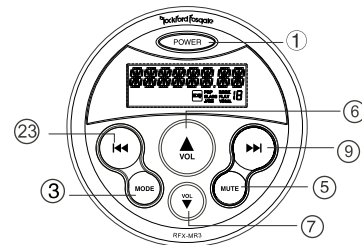
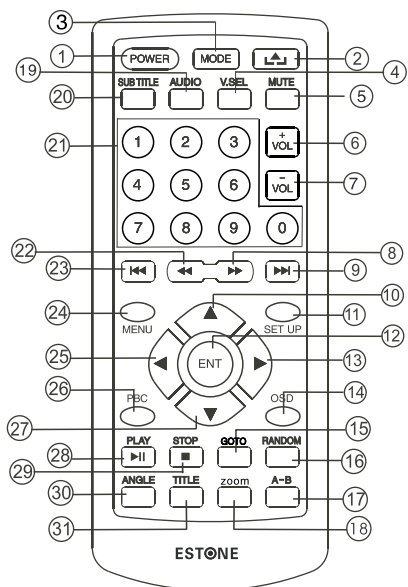
DISC MENU Language: Set the MENU language.

## DVD/USB Operation

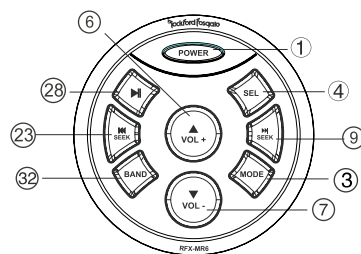
- 1、SHUFFLE 6 (22)  
Short press to turn on/off the random play function.
- 2、ENT (8)  
Short press to enter submenu (the same function as "ENTER").
- 3、EJECT(29)  
Eject the disc.
- 4、FR(<<)(12):  
Fast rewind (X2, X4, X8, X20)
- 5、FF(>>)(11)  
Fast forward (X2, X4, X8, X20)
- 6、STEP+/- (7)  
Select previous/next program.
- 7、MENU(27)  
Back to main menu.
- 8、ENTER(28)  
Enter submenu when press.
- 9、STOP(26)  
Press this key to stop playing, and press "PLAY " to continue; if press "STOP" continuously twice and then press "PLAY", the program will play from the first chapter.
- 10、PLAY/PAUSE(25)  
Press this key to pause playing and press again to resume.
- 11、USB jack(24)



## Remote Control



RFX-MR3 for EX8503 DVD



RFX-MR6 for EX8503 DVD

- |   |  |
|---|--|
| ① Power On/Off, Volume Up/Down                                | ①⑦ A-B Section Repeat button   |
| ② Open/Close  | ①⑧ zoom button   |
| ③ Mode button   | ①⑨ Audio button  |
| ④ V.SEL button  | ②⑩ Subtitle button   |
| ⑤ Mute  | ②⑪ 1-0 Direct Access (Press the sequence number of the file at USB/MP3 mode to play the program) |
| ⑥ Vol+  | ②⑫ Fast Backward   |
| ⑦ Vol-  | ②⑬ Chapter Down  |
| ⑧ Fast Forward  | ②⑭ Menu button   |
| ⑨ Chapter Up  | ②⑮ Left direction key  |
| ⑩ Up direction key/DVD pause                                  | ②⑯ Playback Control button(PBC)  |
| ⑪ Setup button  | ②⑰ Down direction key/DVD slow   |
| ⑫ Directional key-Joystick (up,down,left right) push to Enter | ②⑱ Play/pause  |
| ⑬ Right direction key   | ②⑲ Stop  |
| ⑭ OSD (On Screen Display)                                     | ③⑰ Angle button  |
| ⑮ Goto button   | ③⑱ Title button  |
| ⑯ Random button   | ③⑲ Band  |

## DVD Settings

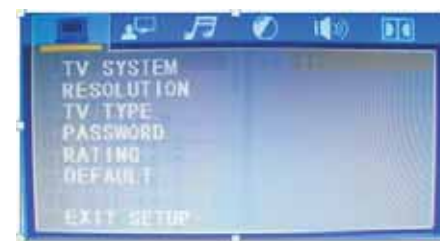
Press SETUP on the remote control to access setup mode, which allows setup or the following five DVD functions:

- ◆ System Setup    ◆ Language Setup    ◆ Audio Setup
- ◆ Video Setup    ◆ Digital Setup

While in the setup menus, use your directional arrows on the remote to select and change settings. The "up" and "down" arrows highlight the options, and the "right" and "left" arrows will change the setting for the highlighted option, press ENT to select.

### ◆ System Setup

The System setup menu controls the following features:



**TV SYSTEM:** Select the video formats: NTSC, PAL60, PAL, AUTO.

**RESOLUTION:** Select one of the output resolution: 480I/576I, 480P/576P, 720P, 1080I, 1080P.

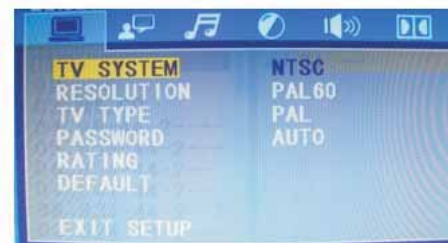
**TV TYPE:** Select one of the following picture formats: 4:3PS, 4:3 LB or 16:9. 4:3 is a letterbox selection, and 16:9 is wide screen.

**PASSWORD:** The default password is "0000", input the password before change the rating settings.

**RATING:** The rating for the DVD discs played on the EX8503 DVD unit.

**DEFAULT:** Restore the system setting to default.

### TV SYSTEM



### RESOLUTION

