

ML41B

BLUETOOTH®-ENABLED
MP3-COMPATIBLE DIGITAL MEDIA FM RECEIVER



SOUNDSTORM®
LABORATORIES



User Manual

ML41B

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FM RECEIVER

Safety Instruction

- This unit is designed to work with a +12 V DC, Negative Ground electrical system.
- When replacing the fuse, always replace with the same type and fuse rating.
- To avoid electric shock caused by short circuit , or any unnecessary damage and fire, please prevent the product from a wet environment and water.

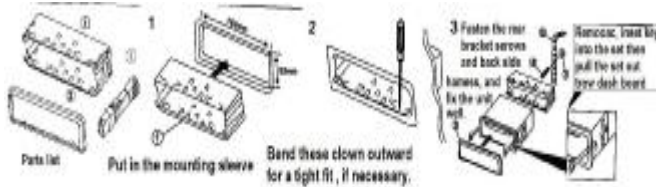
Installation and Removal Steps

Installation

Before starting any electrical work on your vehicle, always make sure to disconnect the Negative (ground) battery cable.

This is security installation; please refer to the illustration and detailed step-by-step installation:

1. Using the radio sleeve, insert into the DIN sized opening of the vehicle or if you are using an installation kit, insert into the installation kit.
2. Using a flat-head screw driver, bend the tabs around the sleeve to secure into the opening
3. Find a location behind the radio where the back strap will be attached to the vehicle.
 - a. The rear chassis bolt will be attached to the unit and through the back strap to secure.



Troubleshooting

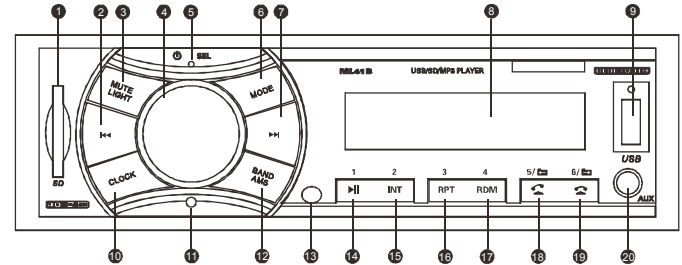
If any issues should arise that are not covered below, please contact our technical service department.

Faults	Causes	Solutions
Bluetooth	Bluetooth cannot be used	Check if Bluetooth on mobile device is turned on, and is paired and connected.
Does not play MP3 from mobile device	Bluetooth not connected. Compatibility issue	Please see above for Bluetooth. Check to see if your mobile device is compatible with audio streaming (A2DP)
Will not power on	It is not powered on	If the vehicle power is properly installed, turn the key to the ACC position.
	Fuse is burnt.	Replace the fuse with same type and rating. Check all connections and make sure they are properly terminated.
No sound	Audio is muted	Adjust the volume to your required level.
	Wires are improperly connected.	Check the wiring diagram and make sure wires are properly connected.
Failure of reading, USB/SD	Poor contact	Please pull out the device and re-insert it. The unit will only play MP3 files
Noises and sound distortion	Speakers	Check speakers
	Speaker cables are shorted.	Properly connect wires.
Radio	Antenna not working	Check your vehicle for a powered antenna connection
	Weak signal	Change the "DX" or "Local" settings

Specifications

Bluetooth	-----	Bluetooth v2.1
Bluetooth Supported Profiles	-----	A2DP, HFP
Maximum RF Transmit Power	-----	Class II
Maximum Power	-----	40 W x 4 @ 4 Ω
Speaker Impedance	-----	4-8 Ω
Frequency response	-----	40Hz-18KHz
Signal-to-noise ratio	-----	> 65dB (FM Mode)
Volume control	-----	Bass ±9 dB @ 100 Hz Treble ± 9dB @ 10 KHz
Tuning Range	-----	87.5 MHz - 107.9 MHz
Usable Sensitivity	-----	<25 dB
Separation	-----	<33 dB
T.H.D.	-----	> 0.7 % (Stereo)
Signal Selectivity	-----	> 60 dB
Power Requirements	-----	+12 V DC (Negative Ground)
Dimensions Approx.	-----	7" x 2" x 4.4" (w/h/d)
Approx. Mounting Dimensions	-----	7.4" x 2.2" x 4.7"(w/h/d)
Mass	-----	Approx. 1.3 lbs

Front Panel



Key Description

- | | | |
|---------------------|---------------------------|---------------------------|
| 1 SD Port | 8 Display screen | 15 Preset 2 / Intro |
| 2 <<< PREV | 9 USB Port | 16 Preset 3 / Repeat |
| 3 Mute/Light | 10 Clock | 17 Preset 4 / Random Play |
| 4 Volume, Power, EQ | 11 Reset | 18 Preset 5 / Answer |
| 5 Microphone | 12 Band/Scan | 19 Preset 6 / End Call |
| 6 Source | 13 IR (Remote Receiver) | 20 AUX Input |
| 7 >>> NEXT | 14 Preset 1 / Play, Pause | |

Wiring Diagram

MODEL NO.: ML41B

SSL SOUND
www.soundstormlab.com

F.M/MP3 PLAYER
12V 10A NEGATIVE GROUND

FREQUENCY RANGE:
FM: 87.5MHz - 107.9MHz

FOR TECHNICAL ASSISTANCE CALL: 888-38-STORM

!! CAUTION !!
SEE INSTALLATION MANUAL FOR WIRING CONFIGURATIONS
FAILURE TO WIRE CORRECTLY MAY CAUSE PERMANENT
DAMAGE TO UNIT, AND WILL VOID ANY WARRANTY
4 - 8 OHM SPEAKER IMPEDANCE ONLY

WIRING DIAGRAM

1	Battery 12V (YELLOW)
2	Ground (BLACK)
3	Remote AMP Wire (BLUE)
4	ACC power (RED)
5	Right Front speaker (+) (GRAY)
6	Right Front speaker (-) (GRAY/BLACK)
7	Left Front speaker (+) (WHITE)
8	Left Front speaker (-) (WHITE/BLACK)
9	Right Rear speaker (+) (PURPLE)
10	Right Rear speaker (-) (PURPLE/BLACK)
11	Left Rear speaker (+) (GREEN)
12	Left Rear speaker (-) (GREEN/BLACK)

FC THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES AND REGULATIONS.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
1) THE DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
2) THE DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING
INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION

DISPOSE OF PROPERLY

MADE IN CHINA

CE e13

Disconnect /connect mobile phone Bluetooth

Short press $\frac{4}{RDM}$ to stop Bluetooth function, short press $\frac{4}{RDM}$ again to connect Bluetooth.

(Only for the matched mobile phone Bluetooth)

Bluetooth Audio Streaming

While in Bluetooth mode, press $\frac{1}{\text{▶|▶}}$ to start playing music from your mobile device*

(*Note: your device must support A2DP, for music playback)

To control tracks, use the ◀◀ and ▶▶ buttons.

AUX-In Mode

AUX

Change the MODE to AUX. A 3.5mm cable is required from the device to the unit.

(Note: Power, Mode, Volume, Loud, Mute are the only functions that function in Aux Mode)

Basic Operation

Power On / Off :

In standby status long press **1** to power it off, short press **1** into power it on.

Mode

When powered ON, press **MODE** button to cycle through the Sources

FM→**USB**→**SD**→**AUX** →**BT**→**FM**

(Note: **SD** and/or **USB** will not display if Media is not present

Default Source: **FM**

Volume

In the state of power on, rotary encoder to let the volume up/down.

By remote, short press **VOL-** button to minus volume, short press **VOL+** button to plus volume.

Volume Range 0 ~ 40

Audio Adjustments

Volume "SEL"

When the unit is ON, to access Audio settings, press the volume knob:

BASS > **TREBLE** > **BALANCE** > **FADER** > **LOUD** > **EQ** > **ST** > **DX** > **USA** > **VOL**

(Note: with **ST/DX/USA** when it's in **FM**)

BASS: To adjust, select bass, and rotate volume left or right: -7 ~ +7

TREBLE: To adjust and rotate volume left or right: -7 ~ +7

BALANCE: To adjust and rotate volume left or right: L7 ~ R7

FADER: To adjust and rotate volume left or right: F7 ~ B7

LOUD Rotate left or right to turn it on or off.

Default OFF

ST: Turn it left or right to turn it ST or MONO.

Default ST

DX: (Distance): Turn it left or right to turn it DX or LOCAL.

Default DX

Tuner Region: Rotate left or right to choose USA or European.

Default: USA

EQ

To select, and cycle through EQ rotate volume: **POP** > **JAZZ** > **CLAS** > **ROCK** > **COU** > **NORM**

Mute

Press the **MUTE** button to completely mute the audio output.

Button Illumination

To turn OFF, press and hold **MUTE** for 2 seconds

To turn ON, press and hold **MUTE** for 2 seconds

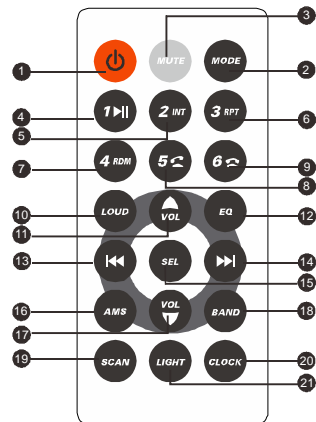
By remote, short press **LIGHT** button to turn ON / OFF button light.

Remote Control Battery



1. Press and hold the small lock and pull to remove the battery holder.
2. Put the battery into slot in the right way as illustrated.
3. Insert the battery holder into remote control.
 - a. Please note battery polarity when re-interesting.

Remote Functions



- | | | |
|-------------------------|---------------------------|-------------------|
| 1 Power On / Off | 8 Preset 5 / FOLDER- | 15 SEL |
| 2 Mode | 9 Preset 6 / FOLDER+ | 16 AMS |
| 3 MUTE | 10 LOUD | 17 VOL- |
| 4 Preset 1 / PAUSE/PLAY | 11 VOL+ | 18 BAND |
| 5 Preset 2 / INT | 12 EQ | 19 Scan |
| 6 Preset 3 / RPT | 13 PREV / Previous Folder | 20 CLOCK |
| 7 Preset 4 / RDM | 14 NEXT / Next Folder | 21 Light On / Off |

Clock Function

Press CLOCK to display clock

If there is no operation within 3 seconds (10 seconds when in standby state), Press and Hold (2 seconds) to remove clock from display

Hour/Minute adjust method: in clock mode, Press and Hold "CLK" for 2 seconds.

Press CLK to change between hour and minute, when it's in this mode, the "00" will flash, to change rotate Volume. Rotating Left will decrease the time, while rotating Right will increase the time.

To store the time, Press and Hold "CLK"

FM Tuner

Automatic Scan

Press and Hold "BAND" for 2 seconds

(Remote) Press "SCAN" button

To cancel scan press "BAND", or by remote "SCAN"

FM Bands (FM 1, FM 2, FM 3)

Press "BAND" to cycle through FM 1, FM 2, FM 3, etc....

Each Band can store up to 6 Presets, for a total of 18 FM presets.


Manual /Auto tuning

Press ◀◀ or ▶▶ to tune manually.

Press and Hold either ◀◀ / ▶▶ to search in its respective direction. It will automatically stop once the first signal is received.


USB/SD Playback

Play/Pause

Press the  to pause the music.

- 1) The music will automatically start playing from the media when it is inserted.
- 2) If the USB/SD source is changed, it will pause the music that is currently playing and resume once the USB/SD source is chosen again.

Scan

To SCAN, Press /INT to start scanning the tracks on the media.

Each track will play for 10 seconds.

To cancel Scan mode, press /INT


Repeat

To REPEAT a track, press the RPT button. The repeat icon will flash on the display.


To cancel the REPEAT function, press the RPT button once more.


Random

Press /RDM to enter Random mode.


To cancel Random mode, press /RDM

Folders

Press  for Previous Folders

Press  to Advance Folders

Direct Track Access


Press and Hold  INT, use the volume knob to rotate and select the track. The track will only be able to be selected in the current folder.


Bluetooth

Bluetooth Pairing

On your device (phone), go to the Bluetooth Settings and search for: "SSL"
If prompted to enter a password: "0000"


Answering Calls

To answer an incoming call, on the unit Press  on the unit.

When using the remote, Press 

Ending/Ignore a Call


To End/Ignore a call, Press  on the unit.

While using the remote, Press 

Redial

While in the Bluetooth mode, Press  to redial the last number.

Private Call

During a call to transfer to the mobile device, Press  RPT
The audio will mute for the duration of the call.

To re-direct the call back to the unit, press  RPT to transfer from the mobile device.