ML33USA

MP3-COMPATIBLE DIGITAL MEDIA RECEIVER
WITH USB AND SD MEMORY CARD PORTS AND FRONT PANEL AUX INPUT

12.2009

User's Manual

SSL
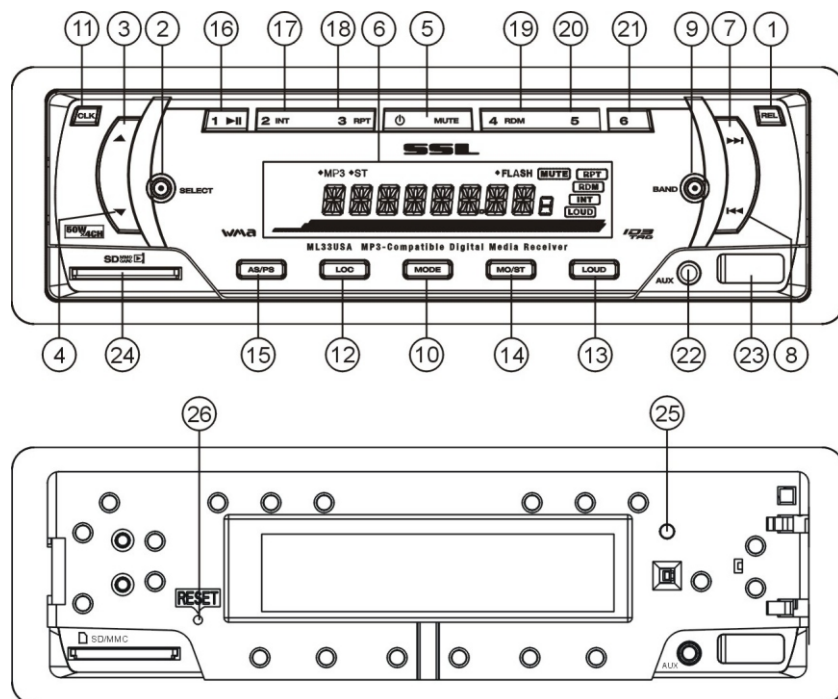
SOUND STORM®
L A B O R A T O R I E S

♲ CE e1

iPod is a trademark of Apple, Inc.,
registered in the U.S. and other countries.

SSL

ML33USA

MP3-COMPATIBLE DIGITAL MEDIA RECEIVER
WITH USB AND SD MEMORY CARD PORTS
AND FRONT PANEL AUX INPUT

LOCATION AND FUNCTION OF CONTROLS

1. RELEASE BUTTON

Press the REL button to release the front control panel from the unit chassis, then pull it out to remove it from the unit chassis.

When the front control panel is removed the LED indicator flashes.

2&3&4. SEL BUTTON (Select) AND VOL CONTROL BUTTON

a) Press the SEL button briefly, repeatedly, to select desired mode.

-> VOLUME ->BASS ->TREBLE -> BALANCE -> FADER ->

When selecting a desired audio mode, press the VOL+ or VOL- button to adjust the audio effect.

In each mode, the waiting time is about 5 seconds, and when the waiting time is over, it returns to the last display mode .

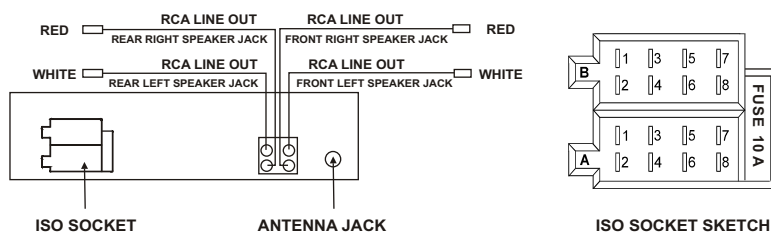The control mode of E.VOL is operated with following numeric display.

- VOL: (MIN)00, 01,......46, 47(MAX).
- BASS/TRE: -07, -06,…,00,…+06,+07
- BAL: 0LR9, 1LR9, …, 9LR9,…,9LR1, 9LR0
- FAD: 0FR9, 1FR9, …, 9FR9,…,9FR1, 9FR0

b) Pressing and holding the SEL button for longer than two seconds activates the cyclical mode of functions:

->BEEP (ON/OFF) -> USER SET (FLAT/CLASSIC/ROCK/POP)
-> VOL (LAST/DEFA) ->CLK (ON/OFF)-> CLK (12/24)mode.

After selecting the desired mode, press the VOL+ or VOL- knob to select one setup item of the desired mode.

WIRES CONNECTION

RED — RCA LINE OUT, REAR RIGHT SPEAKER JACK
RCA LINE OUT, FRONT RIGHT SPEAKER JACK — **RED**
WHITE — RCA LINE OUT, REAR LEFT SPEAKER JACK
RCA LINE OUT, FRONT LEFT SPEAKER JACK — **WHITE**

ISO SOCKET   **ANTENNA JACK**   **ISO SOCKET SKETCH**

CONNECTOR A
1.
2.
3.
4. Yellow wire(Memory +12V)
5. Blue wire(Antenna Output)
6.
7. Red wire(12V Ignition Key)
8. Black wire(Ground)

CONNECTOR B
1. Rear Right Speaker (+)
2. Rear Right Speaker (-)
3. Front Right Speaker (+)
4. Front Right Speaker (-)
5. Front Left Speaker (+)
6. Front Left Speaker (-)
7. Rear Left Speaker (+)
8. Rear Left Speaker (-)

SPECIFICATION

GENERAL

Supply Voltage	DC 12V. Negative Ground
Current Consumption	Max.10A
Power Output	50Watts X 4(measured at DC 14.4V)
Number of channels	4 channels.
Unit Dimensions	178[W] X 101.5[D] X 50[H] mm.
	7[W] X 4[D] X 2[H] inch.

FM SECTION

Frequency range	87.5MHz - 108.0MHz
Effective sensitivity	3uV.
I.F Frequency	10.7MHz.

AM SECTION

Frequency range	522KHz - 1620KHz
Effective sensitivity	40dB.
I.F Frequency	450KHz

RCA LINE OUT

Output	1200mV @ MAX.

MMC/SD or USB PLAYBACK

System	MP3 audio system.
Frequency characteristics	20Hz -100Hz <=5dB
	10KHz-20KHz <=5dB.
Signal to noise (MMC/SD & USB)	50dB [1KHz] .

BEEP ON/BEEP OFF
BEEP ON mode: The beep is generated when any key is pressed.
BEEP OFF mode: The beep sound is disabled.
VOL LAST/VOL DEFA
VOL LAST: The radio switches on at the actual volume it was set before it was last switched off.
VOL DEFA: After pressing SEL button, VOL will be displayed. Then you can pre-select a constant switch-on volume by using the VOL knob.
CLK ON/OFF
CLK ON: Clock will always show on the display when the power is off.
CLK OFF: Clock will not show on the display when the power is off.

5. POWER ON/OFF & MUTE
   When the unit is power off, the unit will turn on by pressing any button except the EJECT and the RELEASE button.
   When the unit is power on, press and hold the power button for more than 0.5 seconds, turns the unit off.
   When the unit is power on, pressing the power button briefly will turn the MUTE on/off.

6. LCD Display

7&8. TUNE, SEEK, TRACK, SKIP UP / DOWN BUTTONS
   a) During RADIO mode:
      Press the >>| or |<< button briefly to manually tune up/down to the desired radio station frequency step by step.
      Press and hold the >>| or |<< button for longer than 0.5 seconds, to automatically tune up/down to the radio station frequency of strong signal.
   b) During SD/MMC & USB mode:
      Press the >>| button briefly to play next track.
      Press the |<< button briefly to play the current track from the beginning of it if the playing time is more than 2 seconds.
      Press the |<< button briefly to play the previous track if the playing time is less than 2 seconds.

9. BAND BUTTON
   During radio mode, press the BND button briefly to select the radio broadcasting band you would like to hear. The AM/FM band is toggled cyclically through the tuning bands: ->FM 1-> FM 2 -> FM 3 -> AM 1->AM 2 ->.
   In MMC/SD, USB mode, if you press BAND button repeatedly, the file name, folder name, song's title, artist and album information will be scrolling on the LCD display. As long as the current playing MP3/WMA music contains relevant ID3 tag information in version 1.0/2.0 format, the 3 items underlined above will be scrolling on the LCD display; otherwise, they will not.

10. MODE BUTTON
    Press it to select RADIO, CARD(after inserting MMC/SD card), USB(after inserting USB stick) and AUX mode.

11. CLOCK BUTTON
   Press the CLK button briefly to display time for 5 seconds on the display, and then returns to its previous display.
   Press the CLK button and hold for more than 1 second until the time flashes on the display. Then you can adjust HOUR or MINUTE by press the VOL- or VOL+ button.

12. LOC BUTTON
   Radio station search mode is divided by this LO/DX switch, this button can be used to control an attenuator in the tuner during search. The detecting level of seek, scan, auto-memory will be reduced as much as the attenuated level of the tuner. In radio mode, press the LOC button to change local reception or distance reception.
   Note: This button is only active for FM reception.

13. LOUDNESS BUTTON
   When press briefly, the LOUD mode is turned on, its to enhance the bass sound effect when the volume level is low. Press again to cancel the loudness effect.

14. ST/MO BUTTON
   In FM mode, press the ST button briefly to select stereo or mono sound mode.

15. AS/PS BUTTON (Auto-storage /Preset scan)
   During radio mode:
  1) When press and hold for more than 1 second, the radio searches from the current frequency and checks the signal strength level until 6 station are found. And then the 6 stations frequency are preset to the corresponding preset memory numbered bank. The auto-storage operation is implemented in each selected band. When the auto-storage operation is finished, the radio execute the Preset scan.
  2) When press briefly, the radio searches for each preset station in the current band and plays that preset station for 5 seconds, and then searches again.
   During SD/MMC or USB mode:
   TRACK SEARCH mode:
   Press the AS/PS button to enter track search mode.
   In track search mode, the LCD display TRK 000 and flash the highest digit 0 which the SD/MMC card or USB stick contain.
   Press the VOL+ or VOL- buttons to select number of the flashing digit from 0 to 9, and then press the BAND button to confirm the number and flash the next lower digit 0. Following the same steps as above, choose and confirm the digits until the desires track number has been selected and press the BAND button to start playing the track.
   FIRST CHARACTER SEARCH mode:
   In first character search mode, the display will show the files in alphabetical order from A to Z and 0 to 9. If the files are not saved by character names the unit will display "NONE" on the screen. Use the VOL+ or VOL- buttons to search through the files and press the SEL button to play the desired file.

TROUBLE SHOOTING

Before using the check list please make all the connections first.
If you still have questions after going through the checklist, please consult your local customer service representative.
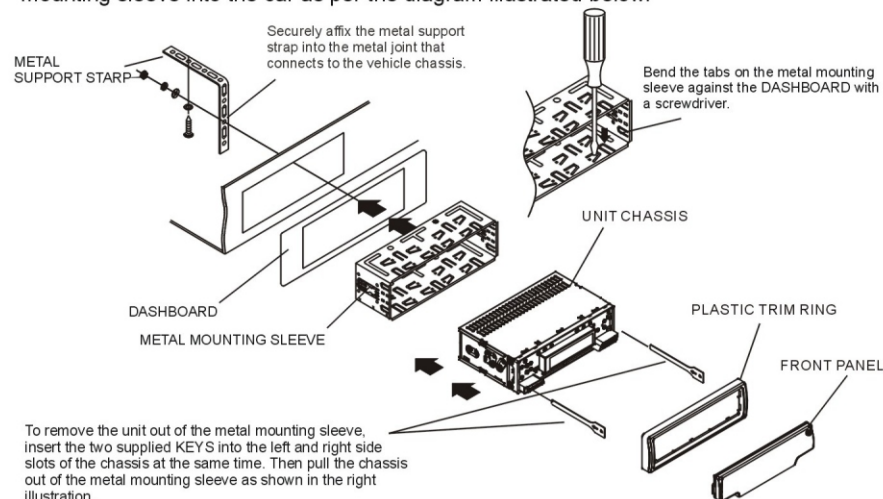
Common Symptoms	Cause	Solution
There is no power.	The car ignition is switched off.	If the power supply is properly connected to the car accessory, switch the ignition key to " ON " or " ACC " .
	The fuse has blown.	Replace another fuse according to the wiring diagram.
There is no sound.	The volume control is set too low.	Turn up the volume properly.
	The device has not been wired correctly.	Check the power and ground connection according to the wiring diagram.
The operation keys do not work	The built-in microcomputer is not operating properly due to noise	Switch the device off and on again. Or press the RESET button to reset the unit.
No radio reception.	The antenna cable is not connected.	Insert the antenna cable firmly into the antenna socket of the device.
In automatic search mode the radio does not stop at a trans-mitting station.	The transmission signals are too weak.	Tune in to a radio station manually.

INSTALLATION METHOD
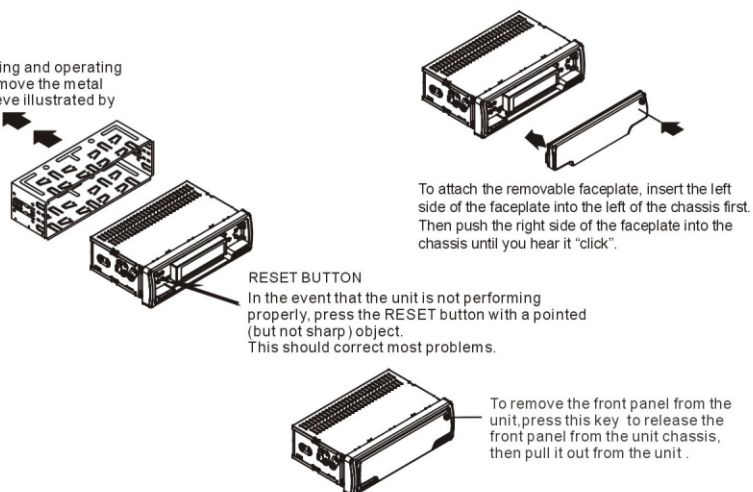
This is an anti-theft installation method.
The main unit wears a METAL MOUNTING SLEEVE.
Please connect the wiring, eg, the Power Supply, the Speakers and the Antenna according to the requirements of this Instruction Manual, then install the metal mounting sleeve into the car as per the diagram illustrated below.

METAL SUPPORT STARP

Securely affix the metal support strap into the metal joint that connects to the vehicle chassis.

Bend the tabs on the metal mounting sleeve against the DASHBOARD with a screwdriver.

UNIT CHASSIS

DASHBOARD
METAL MOUNTING SLEEVE

PLASTIC TRIM RING

FRONT PANEL

To remove the unit out of the metal mounting sleeve, insert the two supplied KEYS into the left and right side slots of the chassis at the same time. Then pull the chassis out of the metal mounting sleeve as shown in the right illustration.

NOTE

Before mounting and operating the player, remove the metal mounting sleeve illustrated by the arrows.

To attach the removable faceplate, insert the left side of the faceplate into the left of the chassis first. Then push the right side of the faceplate into the chassis until you hear it "click".

RESET BUTTON
In the event that the unit is not performing properly, press the RESET button with a pointed (but not sharp) object.
This should correct most problems.

To remove the front panel from the unit, press this key to release the front panel from the unit chassis, then pull it out from the unit.

16-21. PRESET STATION MEMORIES 1-6 OR(>||, INT, RPT, RDM) BUTTONS
 a) During radio mode:
   When pressed briefly, these buttons select a preset pre programed stations. If any of the six buttons are pressed for more than 2 seconds, the station currently being listened to is memorized into the selected preset button.
 b) During SD/MMC or USB mode:
   Press the TOP/>|| button briefly to pause the playback of the SD/MMC card or USB stick.
   Press again to resume normal playback.
   Press the INT button to play the first 10 seconds part of each track, and the LCD will display INT ON.
   Press again to stop scan, while the currently selected track will be played, and the LCD will display INT OFF.
   Press the RPT button to play the current track repeatedly, and the LCD will display RPT ONE.
   Press again to cancel this function, and the LCD will display RPT OFF.
   Press the RPT button twice continuously to play the tracks in the current folder repeatedly and the LCD display will show RPT ABM.
   Press the RDM button to play all tracks in random order, and the LCD will display RDM ON.
   Press again to cancel this function, and the LCD will display RDM OFF.
   Press the radio preset button 6 and 5 button to move up and down 10 tracks at a time.

22. AUX INPUT JACK
   Press the mode button to select auxiliary input playing mode. You can connect any external audio device to the front auxiliary input jack.

23. USB SOCKET
   In order to play the files in the USB stick, insert the USB stick into the USB socket. The system will change into the USB mode automatically, and play the first file from the USB.

24. MMC/SD CARD SLOT
   In order to play the files in the MMC/SD card, insert the MMC/SD card into the MMC/SD card slot. The system will change into the MMC/SD mode automatically, and then play the first file in the MMC/SD.
   Note:
   When MMC/SD card and USB stick are both inserted into their slot or socket, the system will change into the playback mode of the last one.

25. FLASHING LED
   When the front control panel is removed this indicator flashes.

26. RESET BUTTON
   Before operating the unit for the first time, or after replacing the car battery or changing the connections. You must reset the unit.
   Press this button with a pointed object. This operation will erase the clock setting and stored contents.