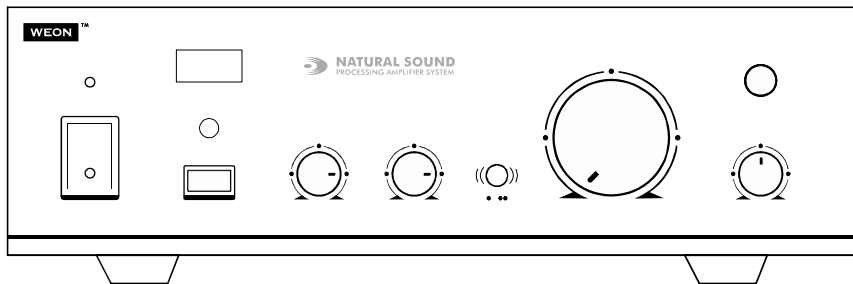


**WEON**

TM

NATURAL SOUND  
PROCESSING AMPLIFIER SYSTEM

**CSA 145 X**



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It's very important to **REGISTER YOUR PRODUCT** to avail Warranty benefits,  
See the Warranty card for more information

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Marked with these symbols are **TIP** that improves the system's performance when follow



Marked with these symbols are **ATTENTION** that needs to be take care for continued safety

**CAUTION****RISK OF ELECTRIC SHOCK  
DO NOT OPEN**

**CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

**WARNING !**

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE**

**IMPORTANT !**

*please record the serial number of this unit in the space below*

Serial number

*The Serial number is located on the bottom side of the unit. Retains this owner's manual in a safe place for future reference.*

*READ INSTRUCTIONS : All the safety and operation instructions should be read and followed before the unit is operated*

*HANDLE GENTLY AND CAREFULLY : Do not use force on switches, knobs or cords. Always plug and unplug the cables, including the AC power cord - by gripping the connector, not on the cord.*

*INSTALL IN A WELL - VENTILATED AREA : The unit should be installed in a well ventilated area, so that it's location or position does not interfere with it's proper ventilation. The openings on the cabinet assure proper ventilation of the unit. Therefore, avoid placing objects against these openings,*

*SWITCH OFF BEFORE MAKING CONNECTIONS : Always turn the power OFF prior to connecting or disconnecting cables. This is important to prevent damage to the unit itself as well as other connected equipment.*

*SET THE VOLUME TO MINIMUM : Always set the volume control to "00" before starting audio source play. Increase the volume gradually to an appropriate level after playback has been started.*

*DISCONNECT THE AC POWER PLUG : When not in use this unit for long periods of time (ie., Vacation, etc.) disconnect the AC power plug from the wall outlet.*

*CLEAN WITH A SOFT & DRY CLOTH : The unit must be cleaned in a particular interval period , Never use solvents such as benzine or thinner to clean the unit. Wipe clean with a soft, dry cloth.*

*READ THE "TROUBLESHOOTING " SECTION : Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.*

**ATTENTION !****DO NOT OPEN THE UNIT OR ATTEMPT REPAIRS YOURSELF**

Opening the unit and or tampering with the internal circuitry will make servicing difficult and will endanger you and your unit.

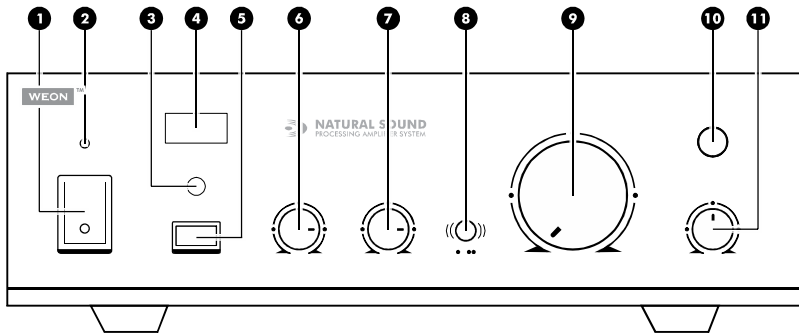
**IT MAY ALSO VOID THE WARRANTY**

**PLAY IT SAFE**

WEON wants you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion, and most importantly, without affecting your sensitive hearing. Since hearing damage from loud sounds is often undetectable until it is too late.

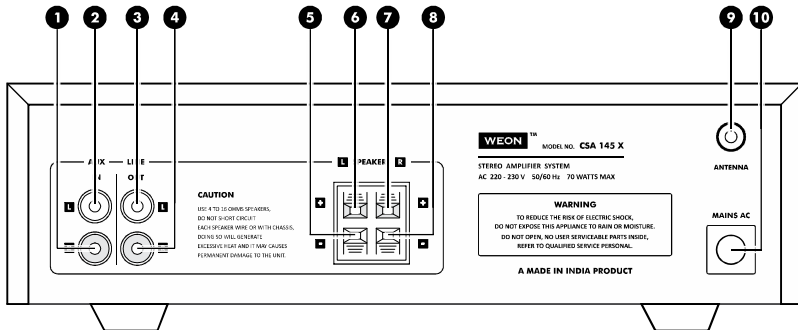
**WEON RECOMMENDS YOU TO AVOID PROLONGED EXPOSURE FROM EXCESSIVE VOLUME LEVELS.**

## FRONT PANEL



- 1** *POWER Switch - Slide this switch to turn ON or OFF the unit*
- 2** *Power Indicator - While the unit is on, The RED color light will be illuminated*
- 3** *Remote Sensor - Signals from the remote control unit are received here.*
- 4** *Display - Shows information about various parameters and adjustments*
- 5** *USB Jack - For connecting Flash Drive, Also, used for Cell Phone Charging as well*
- 6** *BASS Control - Adjust low frequency response respectively for the left and right channels.*
- 7** *TREBLE Control - Adjust high frequency response respectively for the left and right channels.*
- 8** *Loudness Switch - Normally OFF, When pressed inward (ON), boosts Bass & Treble frequencies*
- 9** *VOLUME Control - Simultaneously controls volume level at Left and Right Channels (This does not affect LINE OUT level.)*
- 10** *MIC Jack - Insert the mic cable in this jack to use mic and/or Karaoke function*
- 11** *BALANCE Control - Adjusts the left and right output volume to the Speakers to compensate for sound imbalance caused by speaker positions or listening room conditions.*

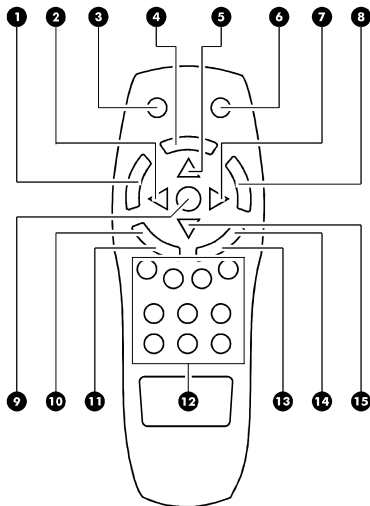
## BACK PANEL



- 1** **Aux Input Jack** - Connect an auxiliary audio source, such as a DVD / Set Top Box to this jack marked 2 as Left and 1 as Right. The source connected with this jack can be selected by the Input Selector
  - 2** **Line Output Jack** - Use these signal marked 3 as Left and 4 as Right, when adding an external power amplifier, such as subwoofer amplifier
  - 3** **Speaker Terminal** - Connect the Left Channel speaker wire to Marked 5 as the Negative and 6 as the positive output
  - 4** **Speaker Terminal** - Connect the Right Channel speaker wire to Marked 8 as the Negative and 7 as the positive output
  - 5** **Antenna Jack** - Insert the supplied antenna wire here for better signal reception of the FM Stations
  - 6** **AC Power Cable** - Plug in to the AC 220 - 230 V wall outlet,
- ⚠** **AVOID USING THE AMPLIFIER WITH UPS / INVERTOR / GENSET LINES, AS IT MAY MAKE SEVERE HUMMING, DISTORTED NOISE AND CAUSES DAMAGE OF THE AMPLIFIER.**
- ⚠** **DO NOT REVERS THE SPEAKER WIRES, DON'T LET THE BARE WIRE TO TOUCH WITH THE CHASSIS AND OR EACH OTHER**

**KNOW YOUR REMOTE**

Since the remote control will be used for many of this unit's control operations, It's very important to know about the remote control's Keys and their functions. Here is the short description of each keys with it's functions



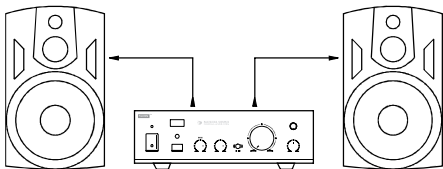
- 1** **MODE** : To change the Input sources from BLUETOOTH / USB / FM / AUX when sequently pressed
- 8**
- 2** **PREVIOUS** : To change the previous track or change the previous FM station, Press and holding more than 3 seconds will backwards the song which is being played in USB mode
- 13**
- 3** **MUTE** : Mutes the total sound from media device, still you can use the mic with amplifier's Volume control
- 4** **U/SD Scan** : To auto scan the FM Stations
- 5** **VOL +** : Key to increase the volume on media device
- 6** **POWER** : Powers off the media player only, It will helps when using the amplifier as only for MIC input
- 7** **NEXT** : To change the next track or change the next FM station, Press and holding more than 3 seconds will fast forward the song which is being played in USB mode
- 14**
- 9** **PLAY / PAUSE Key** : Helps to Pause a song while playing and Play when in Pause, Also mutes the sound in FM Mode
- 10** **RPT** : Repeats a song / Folder being played
- 11** **EQ** : To change sound effects from Normal, Pop, Jazz, Classic when sequently pressed, Using in Normal mode is recommended
- 12** **NUMERIC KEYS** : 0- 9 numeric keys helps to change your desired mp3 track or to tune your favourite FM stations
- 15** **VOL -** : Key to reduce the volume on media device



When you notice that remote control operation has become erratic, or the distance from which the remote control will function has decreased, it's time to replace the batteries. Always replace the 2 "AAA" Batteries at the same time

## SETTING UP YOUR SPEAKER SYSTEM

This unit has been designed to provide the best sound effect with just 2 speaker setup (Your Normal Stereo Speakers), Also, the natural sound processing technology is optimized for 2 channel Stereo setup and well performed when connecting with High performance model speakers.



The Speakers should have enough power handling capacity to accept the maximum output of the audio system.

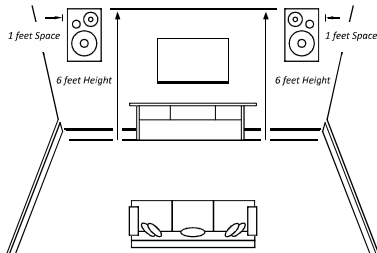
## EXPANDS YOUR SOUND BY USING SUB WOOFER

The 2 main speakers are used for Mid Bass, Vocal and Treble sound effects, For precise sound localization - You can further expand your system with an addition of a subwoofer and subwoofer amplifier.

The use of a subwoofer is effective not only for reinforcing bass frequencies, but also for reproducing the LFE (low frequency effect) sound with high fidelity when playing a source. You may wish to choose the convenience of WEON Subwoofer Amplifier System, Which is very ideal for this amp, However - adding just 2 speaker system setup is a good way to begin with this unit.

## SPEAKER PLACEMENT

Place the Left & Right Speakers in the normal position. They should be nearly Six feet up from the floor and should have minimum of One feet from each side wall, (To avoid interference, Keep the speakers above or below the TV or Monitor, Or use a magnetically shielded type speakers)



## CONNECTING SPEAKER SYSTEMS

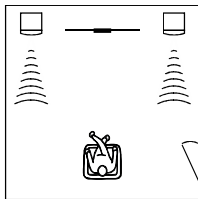
Connect the Speakers terminals to your speakers with wire of the proper gauge, cut as short as possible. If the connections are faulty, no sound will be heard from the speakers. With speaker connections you must also be sure that the polarity is correct. that is, + and - markings are observed. If these wires are reversed, the sound will be unnatural and will lack bass. To keep track of polarity, use a speaker cable that has one of the two wires marked by a stripe or a different color.



Do not let the bare speaker wires touch with each other or any other metal part as this could damage this unit and /or speakers.

**RECOMMENDED POSITION FOR LIVING ROOM**

Placing the Speaker system on the same side walls is recommended & ideal placement for your living room, By placing this setup - you may listen the stereo signals very closely and naturally

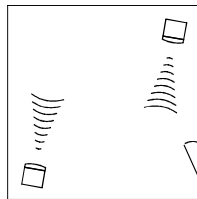


If you are watching a power packed car chasing scene - you will experience the crashes and the car movements of left and right sides on the scene very naturally. Also you can hear the vocals even clearly

For Best stereo effect, place the speakers 2 to 3 meter apart or equal distance from TV.

**RECOMMENDED POSITION FOR WORK PLACE**

Placing the Speaker system on the opposite side walls is recommended & ideal placement for your work place, By placing this setup - you may listen the sound that fully covers your entire room

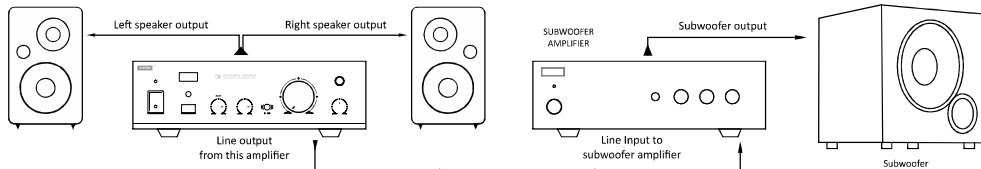


From one corner to another corner - the sound will probably fulfill whole area, Also, this setup will help you to avoid the necessary of full volume level and avoids irritation while working for a long time

To achieve the best possible effect, Adjust / turn a little bit of angle of each speakers.

**ADDING A SUBWOOFER SYSTEM**

You may wish to add a subwoofer to reinforce the bass frequencies. This unit provides line-level outputs to connect with another power amplifiers or subwoofer amplifier. If you use a subwoofer amplifier - connect the LINE OUT jack of this unit to the INPUT jack of the subwoofer amplifier, and connect the speaker terminals of the subwoofer amplifier to the subwoofer. You may alternatively use the speaker output signals to subwoofer amplifier which supports high level inputs.

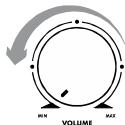




After making all the connections properly, Please do a complete check for safety, If everything is fine - it's time to play the music. Kindly follow the steps mentioned below for first time setting up all the controls..

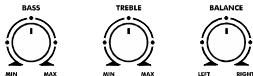
Set the VOLUME control to minimum position.

1



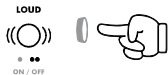
Fix the BASS, TREBLE, BALANCE controls to middle (12' O'Clock) position.

2



Ensure that the LOUDNESS\* switch is in OFF position

3



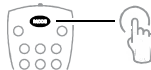
Slide the Power Switch to turn ON the system.

4



Select an input source by pressing the MODE key on the Remote.

5



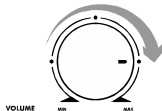
Play a Music track on the selected source.

6



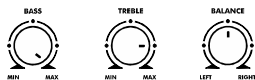
Increase VOLUME control gradually to your listening level.

7



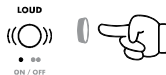
Adjust the BASS, TREBLE, BALANCE controls gradually to your satisfactory level.

8



Push to ON the LOUDNESS\* - if you want to get boosted effect

9



If you want to listen the music at night time or at a moderate volume - press this switch, Else keeping the Loudness is in OFF Position is recommended.

\* The use of this switch will not be so effective if you set the Volume in Full level.

**!** Once you have completed all these adjustments, and if you feel the sound is good and satisfactory - Use only the VOLUME control of this unit or use the remote control unit to adjusting the whole listening volume level. Do not change any other setting in the system frequently.

The system has in built media player with USB / FM / Blue tooth / AUX inputs functions, Press the mode button on remote sequently to achieve your desired modes, You can see the changes of the input mode on the display when pressing the mode button (on remote) each time. .

#### TO PLAY WITH AN USB DEVICE -

Press the mode button on remote until you see the USB on the display, Now the songs played in alphabet order, To go to a desired song - just press the song number on the remote with out delay, the unit will jump to the particular song you entered, The system will starts play the last played song instead of starting from the beginning when changing the input modes or Switch ON again the set after switch OFF or power failure

The system will automatically detects and starts playing when inserting an USB device, Which means the system automatically select the USB mode from any of current mode being played



#### TO PLAY FM RADIO -

Press the mode button on remote untill you see the some numbers on display, Press & hold the SCN button on the remote for more than 3 seconds to auto scan the FM radio stations,

If you know a Fm radio station's frequency - you may directly press the station's frequency numbers in sequence, for example - A station that's available on 102.7 Mhz - just press the 1 0 2 7 keys without delay



Expanding the Antenna wire and or doing a little search for the place where the FM signals are good, is suggested for better reception of all FM radio stations

#### TO USE AUX FUNCTION -

Press the mode button un till you see the AUX on display, Please use a good quality RCA cable to connect the input signal to avoid unnecessary noises.

#### TO STREAM WITH BLUETOOTH -

Press the mode button on remote untill you see "bt" on display, Then turn on bluetooth in your Device, ie - Android / IOS phone or Laptop etc., Make sure the setting on your device should be in pairing mode or searching new device, Check for V15 from available option, Tap on V15, then your phone will automatically paired, You don't need to do the pair every time, because the last paired device is remembered and automatically paired when accidentally disconnected or when turning bluetooth ON

#### TO USE WITH MIC -

Insert the pin of the mic cable to MIC in jack, when using the mic function, you may power off the media by pressing power button on the remote, Doing so will helps you to get pure MIC operation with out any background music or noises,

#### KAROAKE FUNCTION

If you want to use the mic as karaoke function - play a song on your desired level and maximize the volume control on the amp, you may increase or decrease the song level by adjusting the volume keys on remote, Mic volume can be adjusted through volume control on the unit.



Always fix the mic so far away from the amplifier to avoid whistle sound, if such noises observed - reduce the volume and make some more distance between the mic and amp.

PROBLEM	WHAT TO DO
<i>The Unit doesn't Power On</i>	<i>Check the Mains AC power plug properly Inserted, Make sure the Switches ( AC Wall outlet &amp; The Unit ) are turned on *</i>
<i>Power LED on, No Display</i>	<i>Press the Power key on Remote Control, Or Switch off and On the Unit again after few minutes *</i>
<i>Remote control does not function</i>	<i>Make sure the batteries are new, not mixed with old &amp; new, and being properly inserted in correct position</i>
<i>No Sound output</i>	<i>Select appropriate input selection, try to change other modes like USB / FM / Bluetooth *</i>
<i>The volume isn't sufficient</i>	<i>Increase the volume on the unit, then remote control too</i>
<i>Poor Bass reproduction</i>	<i>Use a powerful speaker system, check the speaker terminal wires are of good quality</i>
<i>Sound is distorted</i>	<i>Try to re adjust the bass, treble controls gradually, switch off the loudness</i>
<i>Humming / Noise Sound</i>	<i>Make sure the unit is not functioning on generator / inverter / UPS power supply</i>
<i>The sound suddenly goes off</i>	<i>Check for speaker wires short with each other or touched with the chassis, Check the speakers for short or faulty, Switch Off the unit and Switch On again after couple of minutes, *</i>

PROBLEM	WHAT TO DO
<i>This unit is not operating properly</i>	<i>Check the AC voltage is normal, Low voltage may affect the performance of the unit *</i>
<i>FM Reception is not upto the mark</i>	<i>Try to move the antenna wire in some other place, Or increase the wire length of the antenna</i>
<i>Bluetooth disconnected frequently</i>	<i>Come closer to unit with the bluetooth device, make the maximum distance is below 10 meter range</i>
<i>Breakage on Bluetooth Streaming</i>	<i>Make sure there is no abstraction between the bluetooth device and the unit, Reduce the distance range</i>
<i>USB / Flash Drive won't play</i>	<i>Press the mode key on the remote, or remove the flash drive and re insert properly</i>
<i>AUX input doesn't work</i>	<i>Check the AUX cable is inserted into AUX IN jacks, remove and re insert if the cable plugged on the LINE OUT jack</i>
<i>No difference in Loudness</i>	<i>Loudness will work great only when volume level is low or medium, it can't make huge difference in full volume</i>
<i>Whistling noise when using MIC</i>	<i>Reduce the Volume on the Unit &amp; Make more distance as much as you can between the MIC and the unit</i>
<i>Unit becomes Over heat</i>	<i>Remove any abstraction on the amplifier, Do not cover the ventilation holes, Make adequate air spacing</i>

*If a problem still persists, After trying all the procedures mentioned above with \* mark - please call customer care for repairing the unit*

**OUTPUT WATTS**

Minimum RMS Output  
20 Hz – 20 kHz 0.015% THD 8Ω ..... 50W

Standard Output Power  
1 kHz 0.03% THD 8Ω ..... 50W  
(1 kHz 0.7% THD 4Ω) ..... 75W

Dynamic Power Output  
(8Ω/6Ω/4Ω) ..... 60W/80W/100W

**INPUT & OUTPUT RANGES**

Input Sensitivity/Impedance  
TV/DTH/DVD ..... 150 mV/47 kΩ

Maximum Input level  
TV/DTH/DVD ..... 2.3 Vp

Maximum Output Level  
PRE OUT L + R ..... 1V

**RESPONCE RANGES**

Frequency Response ..... (80 Hz – 20 kHz)  
Total Harmonic Distortion ..... < 0.005%

**TONE CONTROL CHARACTERISTICS**

Bass  
Boost/Cut ..... ±15 dB (100 Hz)  
Turnover frequency ..... 150 Hz

Treble  
Boost/Cut ..... ±15 dB (15 kHz)  
Turnover frequency ..... 10 kHz

**LOUDNESS**

Low / Hi ( ON ) ..... -5 / +3 db  
Low / Hi ( OFF ) ..... -2 / 0 db

**POWER RATINGS**

Power Supply ..... AC 220 - 240V @ 60/50 Hz  
Power Consumption ..... < 60 W

**MISC.**

Dimensions (W x H x D) ..... 270 x 80 x 200 mm  
Weight ..... 3.5 kg

**Disclaimer :**

Output power (in Watts) are calculated and mentioned for 2 channels as per standard formula, And it may differ than actual due to various factors, Specifications are subject to change without notice.



Developed & Manufactured in INDIA by  
**WEON Electro Technologies**

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