



TPS
SERIES

User's Manual



TOPP PRO MUSIC GEAR

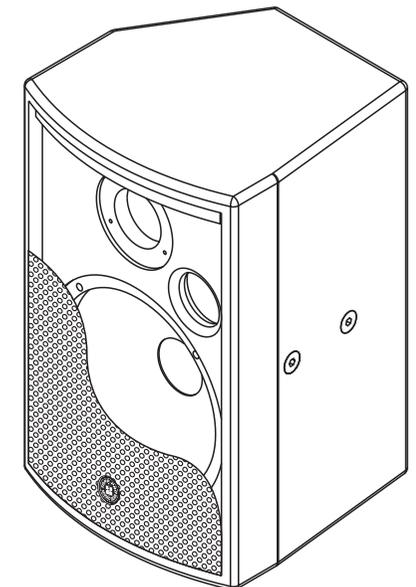
www.topppro.com

TPS 16P / 16A.UB / 16AM.UB

TPS
SERIES

6.5"

Speaker Cabinet



Important Safety Instructions



TO REDUCE THE RISK OF ELECTRIC SHOCK PLEASE DO NOT REMOVE THE COVER OR THE BACK PANEL OF THIS EQUIPMENT. THERE ARE NO PARTS NEEDED BY USER INSIDE THE EQUIPMENT. FOR SERVICE, PLEASE CONTACT QUALIFIED SERVICE CENTERS.

This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages in the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.

This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.

Protective Ground Terminal

AC mains (Alternating Current)

Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

CAUTION

Describes precautions that should be observed to prevent damage to the product.

1. Read this Manual carefully before operation.
2. Keep this Manual in a safe place.
3. Be aware of all warnings reported with this symbol.
4. Keep this Equipment away from water and moisture.
5. Clean it only with dry cloth. Do not use solvent or other chemicals.
6. Do not damp or cover any cooling opening. Install the equipment only in accordance with the Manufacturer's instructions.
7. Power Cords are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet, seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power. This could cause electric shock or fire.
8. Unplug this equipment when unused for long periods of time or during a storm.
9. Refer all service to qualified service personnel only. Do not perform any servicing other than those instructions contained within the User's Manual.
10. To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder.

WARNING

To reduce the risk of electric shock and fire, do not expose this equipment to moisture or rain.



Dispose of this product should not be placed in municipal waste and should be separate collection.

Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

11. Move this Equipment only with a cart, stand, tripod, or bracket, specified by the manufacturer, or sold with the Equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid possible injury from tip-over.



12. Permanent hearing loss may be caused by exposure to extremely high noise levels.

The US. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible exposure to noise level.

These are shown in the following chart:

Hours x day	SPL	Example
8	90	Small gig
6	92	Train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classic music concert
1.5	102	
1	105	
0.5	110	
0.25 or less	115	Rock Concert

According to OSHA, an exposure to high SPL in excess of these limits may result in the loss of heat. To avoid the potential damage of heat, it is recommended that Personnel exposed to equipment capable of generating high SPL use hearing protection while such equipment is under operation.

The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

The mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

1

Introduction

Thank you for choosing TOPP PRO. The new TOPP PRO MUSIC GEAR series cabinets have been designed to provide a cost effective high grade solution while maintaining high quality cabinet construction and optimum components.

The TPS series, depending on the model, can be used for all types of applications including, but not limited to, churches, conference centers and discos. It will provide excellent performance rivalling those cabinets costing much more. Our professional audio products are designed and tested by a highly qualified engineering team with more than 20 years of experience. Great pride and care is placed in delivering products with excellent performance, specifications and dependable reliability. Also great emphasis is placed in creating and bringing to market products that can fill multiple applications and also for customers exceptional values.

Every TOPP PRO audio products is tested and must comply to very strict standards.

2

Features

- * 2-Way 6.5" Vented Active Speaker Cabinet
- * ClassD 70Wx2
- * 6.5"(165mm)woofer/1" Voice Coil
- * 1" Neodymium Tweeter
- * Trapezoidal painted wood cabinet. metal grille
- * 2xM4 Standard(2xVertical side)
- * Modern design & Lightweight

The following features are for TPS 16AM.UB mixer only:

- * 2-band equalizer on input channels
- * 5 Input channels with individual Volume control
- * 3 bands Master EQ
- * 3 COMBO microphone Inputs with phantom power(+15V)
- * 2 RCA Line Inputs/3.5mm jack
- * 2 RCA Line Outputs
- * Monitor output with level control
- * Powered output 70W(@4 ohms, min) for optional external speakers
- * 16-preset digital effect processor
- * USB Player

3

Useful data

Please write your serial number here for future reference.

Serial Number:

Date of purchase:

Purchased at:

12

WARRANTY

Topp Pro guarantees the normal operation of the product against any defect of manufacture and/or vice of material, by the term of (12) months, counted as of the date of purchase on the part of the user, committing itself to repair or to change, to its election, without position some, any piece or component that will fail in normal conditions of use within the mentioned period.

This guarantee is valid if the original buyer will have to present/display this certificate properly sealed and signed by the selling house, accompanied by the corresponding invoice of purchase where it consisted the model and serial number of the acquired equipment.

The guarantee does not cover:

- Damages caused by the illegal use of the product, repair and/or non authorized modification conducted by people by **Topp Pro**.
- Damages caused by the connection of the equipment to other equipment different from the specified ones in the manual of use, or by bad connection to these last ones.
- Damages caused by electrical storms, blows and/or incorrect transport.
- Damages caused by excesses or falls of tension in the network or by connection to networks with a tension different from the required one by the unit.
- Damages caused by the presence of sand, acid of batteries, water, or any strange element inside the equipment.
- Deteriorations produced by the course of the time, use and/or normal wear of the unit.
- Alteration or absence of the serial number of factory of the equipment.

The repairs could only be carried out the authorized technical service by **Topp Pro**, that will inform about the term and other details into the repairs to take place according to this guarantee.

Topp Pro, will repair this unit in counted a term non greater to 30 days as of the date of entrance of the unit to the Technical Service. In those cases in that due to the particularity of the spare part, outside necessary their import, the repair time and the viability of the same one will be subject to the effective norms for the import of parts, in which case one will inquire to the user about the term and possibility into repair.

With the object of its correct operation, and of the validity of this one guarantee, this product will have to be installed and to be used according to the instructions that are detailed in the manual associate or the package of the product.

This unit will be able to appear for its repair, next to the invoice of purchase (or any other proof where the date of purchase consists), to its authorized distributor Topp Pro or an authorized technical center on watch by **Topp Pro**.

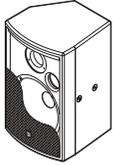
Exclusion of damages:

THE RESPONSABILITY OF TOPP PRO BY ANY DEFECTIVE PRODUCT IS LIMITED THE REPAIR OR THE REPLACEMENT OF HE HIMSELF, TO TOPP OPTION PRO. IF WE CHOSE TO REPLACE THE PRODUCT, THE REPLACEMENT CAN BE A RECONDITIONATED UNIT. TOPP PRO WILL NOT BE RESPONSIBLE BY THE DAMAGES BASED ON THE LOST, INCONVENIENCE, LOSS OF USE, BENEFITS, LOST SAVINGS, BY THE DAMAGE TO OTHER EQUIPMENT OR OTHER ARTICLES IN THE USE SITE, OR BY ANY OTHER DAMAGE IF HE IS FORTUITOUS, CONSEQUENT OR OF ANOTHER TYPE, ALTHOUGH TOPP PRO HAS BEEN NOTICED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow to the exclusion or the limitation to the fortuitous or consequent damages, so the aforesaid limitation can not be applied to you.

This guarantee gives specific legal rights, you can also have other right that varies of state to state.

Technical Specification



Model Active	TPS 16AM.UB
System Type	2-Way 6.5" Vented Active Speaker Cabinet
Power Handling	RMS-140Watts Program-280Watts
Frequency Response	75Hz-20KHz (-6dB)
Sensitivity	113dB Max
Low Frequency	6.5"(165mm)woofer/1" Voice Coil
High Frequency	1" Neodymium Tweeter
X-over Frequency	5KHz@12dB/oct
Mixer	2-band equalizer on input channels
	5 Input channels with individual Volume control
	3 bands Master EQ
	3 COMBO microphone Inputs with phantom power
	2 RCA Line Inputs/3.5mm jack
	2 RCA Line Outputs
	Monitor output with level control
	Powered output 70W(@4 ohms, min) for optional external speakers
16-preset digital effect processor	
USB Player	With USB&Mirco SD CARD, Bluetooth
Power Supply	230V - 115V @50 - 60Hz
Amplifier	Class D 70Wx2, one for inside speaker/one for optional external speaker
Electronic Protections	Thermal/overload/angalog limiter
Enclosure	Trapezoidal painted wood cabinet. metal grille
Fixing Point	4xM4 Standard(2xVertical and Horizontal side)
Dimensions(H*W*D)	12.52"(318mm) x 7.87"(200mm) x 8.67"(220mm)
Net Weight	13.67 lbs/6.2Kg
Volume	1.24CFT

Control Element

TPS 16A.UB ACTIVE SPEAKER CABINET

1. AC POWER SOCKET WITH MAIN FUSE

2. POWER SWITCH

This switch is used to turn the TPS 16A.UB active speaker ON OR OFF.
Caution: Make sure you supply voltage is same to the value printed on the rear panel, before turn on the SWITCH.
(110-120V~50/60Hz)
(220-240V~50/60Hz)

3. GROUND SWITCH

4. MAIN POWER OUT

You can connect a pair of passive speakers to these Output sockets. The 70 Watt (@ 4ohms,min) internal amplifier signal will be assigned to these sockets.

5. POWER INDICATOR

This LED lights up blue when the speaker is powered ON.

6. LIMITER INDICATOR

When the LED indicator, flashes in Red colour the limiter circuit is engaged, When the LED indicator switches In fixed Red, the signal is excessive, adjust the Volume control or decrease the Mixer Output.

7. VOLUME

This control adjusts the proper signal present on the COMBO CONNECTOR (LINE INPUT).
Caution: The signal present on the RCA connector (INPUT) IS OUT OF THE VOLUME CONTROL.

8. DIRECT AUX INPUT

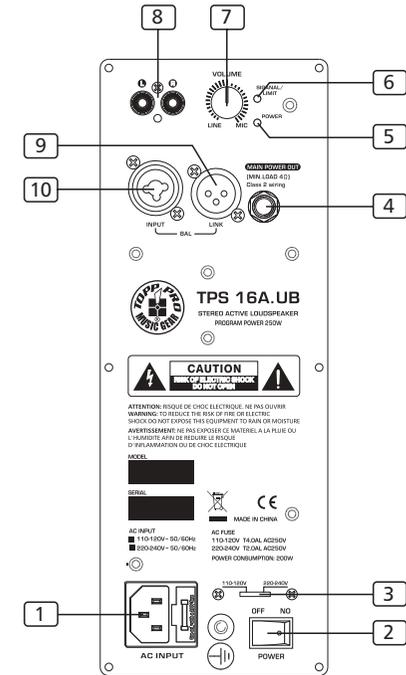
Direct AUX input, with RCA connector, the signal work without volume control at 10dB of sensitivity.

9. OUT/LINK

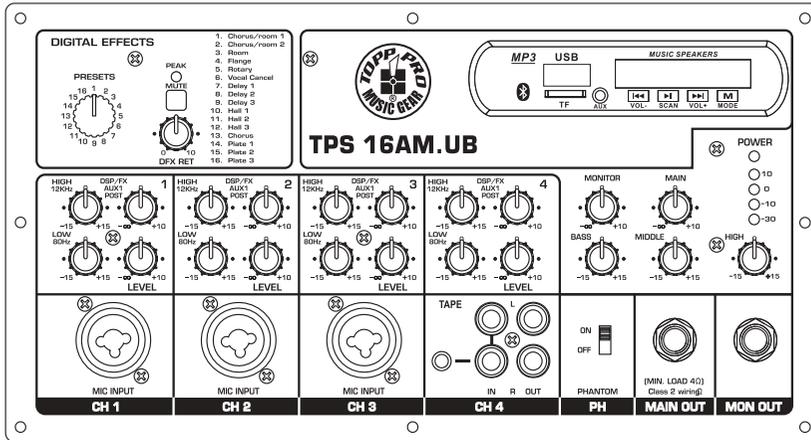
Balanced output (XLR male), can be used for linked at another TPS 16A.UB active speaker cabinet with the same SIGNAL LEVEL OF THE FIRST.

10. SIGNAL INPUT

Line input on combined connector (XLR / Jack) for receive any type of signal sources. Balanced or unbalanced configuration is possible.



4 Control Element



TPS 16AM.UB

1- THE MONO INPUT CHANNELS

These are marked CH1 to CH3 and include a balanced COMBO socket (MIC IN). Use the COMBO socket to connect a low impedance balanced dynamic microphone or a low level signal. You can also connect a condenser microphone into the COMBO socket.

2- PHANTOM POWER SWITCH

When the (2) switch is at ON position, a +15V phantom power will be applied to CH1 through CH3. Only Condenser microphones need Phantom Power, so switch it OFF when you use dynamic microphones.

3- TAPE IN/3.5mm jack

Here you can connect a stereo Line Level via RCA sockets. Usually this stereo channel will be used to connect into the TPS 16AM.UB with the audio output of a Computer, or a CD Player, iPod, MP3 player, etc.

4- TAPE OUT

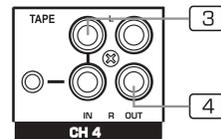
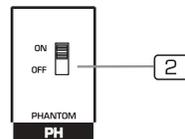
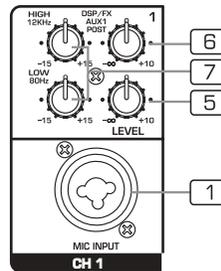
Via these two RCA sockets you can route the Main Stereo signal usually to a Tape Recorder or DAT Recorder.

5- LEVEL CONTROL

It adjusts the LEVEL of individual channels with a range from $-\infty$ to +10dB.

6- DSP/FX-AUX

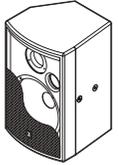
This control is used to adjust the level of respective channel signal sent to the Aux Bus. The configuration is post-fader so the signal sent to AUX Bus will be affected by the LEVEL control of that particular channel. In this typical compact unit, the channel signal is not only assigned to external effect or processor equipment directly but also to internal digital multi-effect.



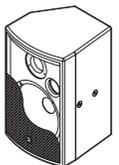
11

Technical Specification

Model Active	TPS 16A.UB
System Type	2-Way 6.5" Vented Active Speaker Cabinet
Power Handling	RMS-70Watts Program-140Watts
Frequency Response	75Hz-20KHz (-6dB)
Sensitivity	110dB Max
X-over Frequency	6KHz@12dB/oct
Low Frequency	6.5"(165mm)woofer/1" Voice Coil
High Frequency	1" Neodymium Tweeter
Connectors	MIC/LINE balanced input at -40/0dB (Combo Connector) AUX input at -10dB with RCA Connector LINK Output at -40/0dB with XLR
Amplifier	Class D 70Wx2(BTL)
Electronic Protections	Thermal/overload/angalog limiter
Volume Control	Continuous, work only on MIC/LINE input
Power Supply	110-120V / 220-240V~50/60Hz
Enclosure	Trapezoidal painted wood cabinet.metal grille
Fixing Point	2xM4 Standard(2xVertical side)
Dimensions(H*W*D)	12.52"(318mm) x 7.87"(200mm) x 7.93"(201.5mm)
Net Weight	13.05 lbs/4.6Kg
Volume	1.19CFT



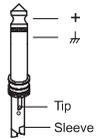
Model Active	TPS 16P
System Type	2-Way 6.5" Vented PASSIVE Speaker Cabinet
Power Handling	RMS-70Watts Program-140Watts
Frequency Response	75Hz-20KHz (-6dB)
Sensitivity	110dB Max
X-over Frequency	6KHz@12dB/oct
Low Frequency	6.5"(165mm)woofer/1" Voice Coil
High Frequency	1" Neodymium Tweeter
Enclosure	Trapezoidal painted wood cabinet.metal grille
Fixing Point	2xM4 Standard(2xVertical side)
Dimensions(H*W*D)	12.52"(318mm) x 7.87"(200mm) x 7.93"(201.5mm)
Net Weight	13.05 lbs/4.2Kg
Volume	1.19CFT



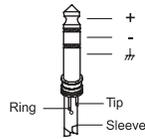
10 Wire Connections

Either the 1/4" TRS phone jack or XLR connector can be wired in balanced and unbalanced modes, which will be determined by the actual application status, please wire your system as the following wiring examples:

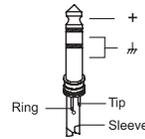
For 1/4" Phone jack



TS Type Unbalanced

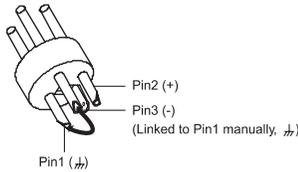


TRS Type Balanced

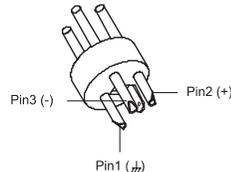


TRS Type Unbalanced

For XLR connector



XLR Type Unbalanced

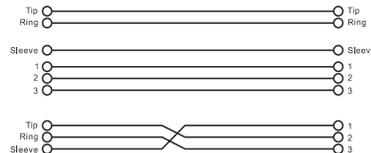
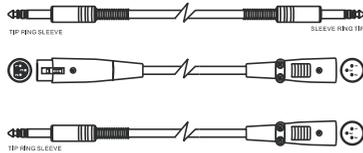


XLR Type Balanced

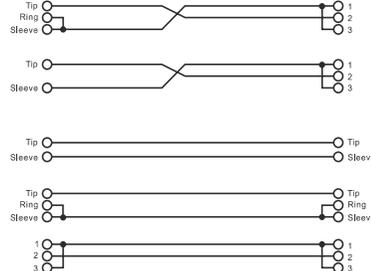
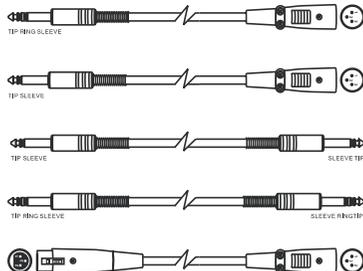
In-line Connection

For these applications the unit provides 1/4" TRS and XLR connectors to easily interface with most professional audio devices. Follow the configuration examples below for your particular connection.

• Balanced



• Unbalanced



Control Element

4

7 CHANNEL EQ

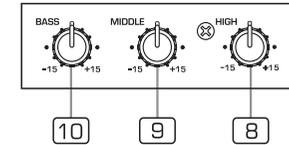
Each Input channel has its own 2-band equalizer with an adjustable range of +/-15dB. The HIGH control creates a shelving filter that will boost/cut all the frequencies above 12kHz. You can use it to eliminate high frequency noise and hiss (such as those produced by Tape Recorders) or to boost and make crispier the cymbals or certain harmonics of the human voice. The LOW control will create a shelving filter that will boost/cut frequencies below 80Hz. Use the LOW control to put in evidence Kick Drum or enhance male voice.

THREE BANDS MASTER EQ

This equalization circuit is inserted before the MAIN level control. You have available 3 controls: BASS, MIDDLE and HIGH.

8- HIGH

Use it as a further boost to the overall MIX to get more colour from your program or turn the control down if you want to avoid high frequency noise.



9- MIDDLE

This is a unique control designed for a wide variation of middle frequencies.

Turn the control down (from center position) and you will make the human voice more warm and smooth while turning the control up will enhance vocal intelligibility. Be careful not to boost these frequencies too much to avoid feed back on microphone inputs.

10- LOW

Turn the control down (from center position) if you experience rumble or low frequency noise or turn it up to make the TPS 16AM.UB sound much bigger than what it is.

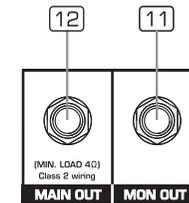
11- MONITOR OUT

Connect a powered Monitor to this socket or an external Amplifier+Monitor Speaker. You can also use it to connect a pair of Headphones.

12- MAIN POWER OUT

You can connect a pair of passive speakers to these Output sockets. The 70 Watt (@ 4ohms,min) internal amplifier signal will be assigned to these sockets.

Note: in case to connect two passive speaker cabinets, it must be sure that load of each speaker cabinet is at least 8 ohms.



13- MAIN

There is the Main Mix Control adjusting the overall volume assigned to the 2 internal speakers or to the MAIN POWER OUT speakers.

14- MAIN LED METER

This 4 segments LED Meter will monitor the volume assigned by MAIN level control. If the +10 LED flashes, you have reached limit of the internal 70+70W amplifier and the outgoing signal is approaching distortion. +10 LED should flash only occasionally. If no LED is blinking, it means that the output level is too low, so either you do not hear any music or the signal is too low to the noise level. For optimal functioning LEDs marked -10 and 0 should always be blinking.

4 Control Element

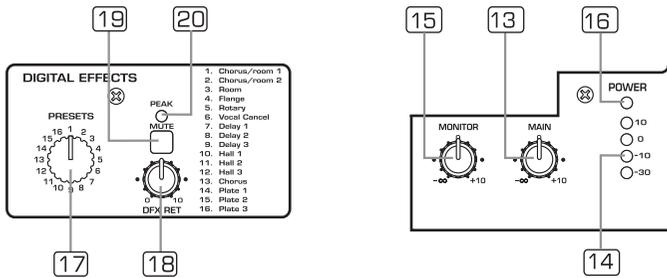
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15- MONITOR

Via this Control, you can adjust the signal Level applied to MONITOR OUT sockets.

16- POWER LED

This LED will blink when your TPS 16AM.UB is switched ON.



DSP SECTION

Your TPS 16AM.UB features a 24-bit, 16-presets digital multi-effects including reverbs, chorus, vocal& delay, etc.

17- PRESETS

Adjust this knob to select the desired effect.

18- AUX/DFX RET

This control is used to adjust the level of the signal coming from internal multi-effect.

19- DSP MUTE

This switch is used to activate/deactivate the resident multi-effect.

20- PEAK LED

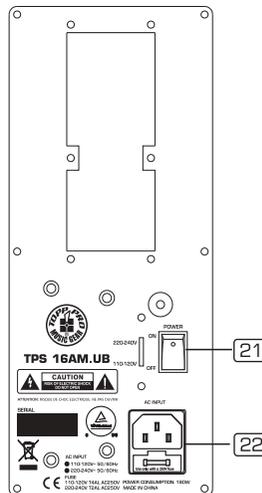
This LED lights up when the input signal is too strong. In case of the digital effect module being muted, this LED also lights up.

REAR PANEL

21- POWER ON/OFF

This switch is used to turn the main power ON/OFF.

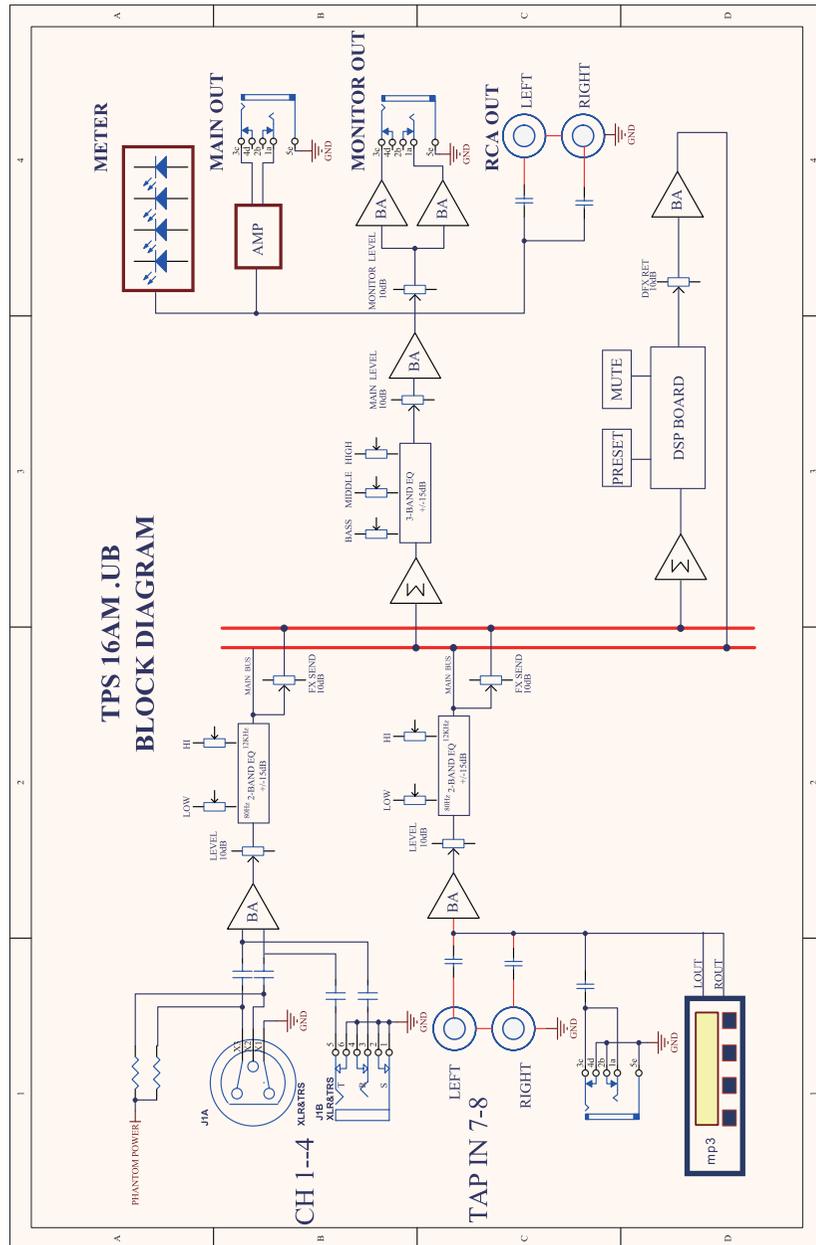
22- AC POWER SOCKET WITH MAIN FUSE



Presets List

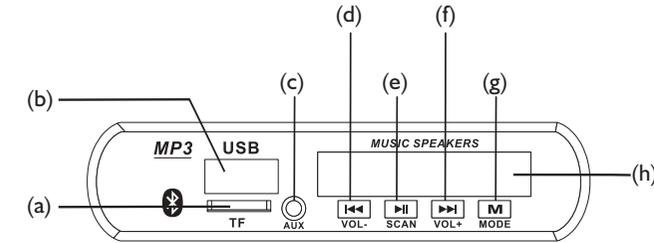
NO.	Preset	Description
1.	Chorus/room 1	Chorus with reverb for guitars, synths, and pianos.
2.	Chorus/room 2	Auto-wah guitar effect with reverb for lead instruments.
3.	Room	Hardwood studio for acoustic instruments.
4.	Flange	Stereo flanger for jet wash effects.
5.	Rotary	Rotary speaker emulation for organs and guitars.
6.	Vocal Cancel	Removes lead vocals from many stereo recordings.
7.	Delay 1	125ms slapback delay for vocals and guitars.
8.	Delay 2	190ms delay for percussive arpeggios.
9.	Delay 3	275ms delay for key board
10.	Hall 1	Bright hall reverb for drums, guitars, and vocals.
11.	Hall 2	Warm hall for acoustic guitars, pianos, and vocals.
12.	Hall 3	Large hall for guitars, vocals and keyboard.
13.	Chorus	Stereo chorus for guitars and pianos.
14.	Plate 1	Classic plate reverb for lead vocals and instruments.
15.	Plate 2	Sizzling bright plate reverb for vocals and drums.
16.	Plate 3	Short vintage plate reverb for snares and guitars.

Block Diagram



Control Element

USB PLAYER



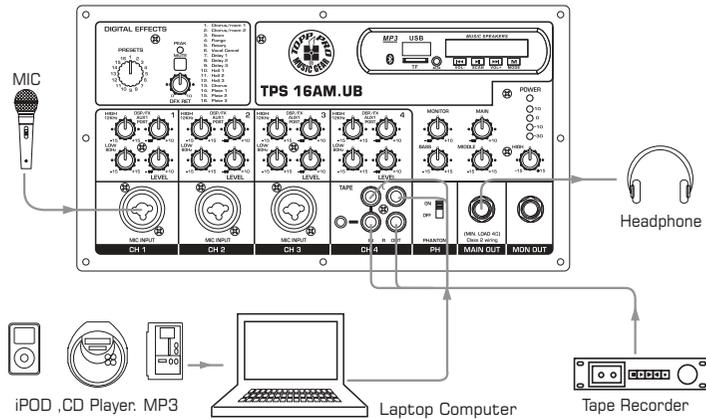
- (a) Insert a standard microSD card
- (b) Insert USB player
- (c) Aux Input
- (d) Play the last song or decrease the volume after pressing 2 seconds
- (e) Press this key to start playing or Press this key to pause
- (f) Play the next song or increase the volume after pressing 2 seconds
- (g) PLAY MODE
In the opening or playing state, press this key to select the three circling modes in order:
Line: The player plays the files you input. The mark on the screen is "LINE".
Bluetooth: The player plays the files from your bluetooth device. The mark on the screen is "bt", In this state, you will hear a tone from the loudspeaker. From your Bluetooth device's settings page, enable Bluetooth and select "VIRE BT" as the device.
- USB : The player plays the files in a standard USB drive. The mark on the screen is "USB"
- (h) Display the status of USB playing

Installation Description

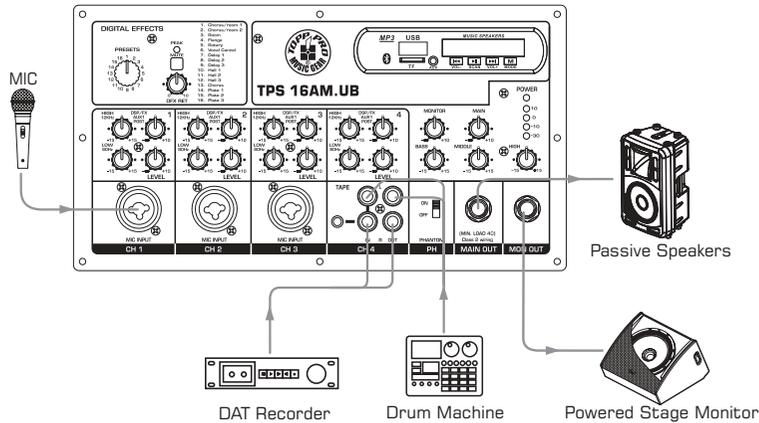
- This is the fastest way to get something out from your TPS 16AM.UB, if you have a keyboard and a microphone.
- A - Well, there is not really much to say before starting to operate the TPS 16AM.UB. It includes Mixer, Amplifiers and Speakers, so just put it on a clean table first and make sure that the Power switch on the back panel is at OFF position.
 - B - Turn down the Input Channel Gain Controls and the MAIN & MONITOR controls.
 - C - Keep Input Channel EQ and Master EQ controls in center position.
 - D - Only at this point you can connect the AC cable into an AC socket and you can switch the system ON.
 - E - Now connect a microphone into Channel 1-3 or a Line Instrument into Channel 4.
 - F - Slowly turn up the Input Channel LEVEL Control and then the MAIN Control.
 - G - For an optimal sound reproduction make sure that -10 and 0 LEDs on Master LED Meter are blinking.
 - H - If you wish to install it, please purchase accessory YS-50.

Here you are. It is your first gig with your TPS 16AM.UB.

6 Connection Diagram



This will be typical setting for a Business Presentation making use of Power Point slides and background music/effects generated by CD player, iPod or other sources such as Mp3 Players. The Presenter has up to 2 micro-phones available and a wireless microphone can also be connected for the use of the audience. The entire presentation can be recorder via Tape or DAT Recorder.



In this case up to three Musicians (Vocalist, Guitar Player & Keyboard Player) can hookup to the TPS 16AM.UB and an additional Drum Machine can also be connected to the Stereo Channel. One or two external passive speakers can be connected (the internal speakers will not be affected) as well as a powered stage Monitor.
Note: load of single passive speaker must be no less than 4 ohms. In case to connect two passive speaker cabinets, it must be sure that load of each speaker cabinet is at least 8 ohms.

7 Frequency Response Diagram

