

THUMP

TH-15A

owner's manual

TAPCO[®]

www.tapcoworld.com

CAUTION AVIS



RISK OF ELECTRIC SHOCK
DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIIR



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED PERSONNEL**

ATTENTION: POUR EVITER LES RISQUES DE CHOC
ELECTRIQUE, NE PAS ENLEVER LE COUVERCLE. AUCUN
ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER
L'ENTRETIEN AU PERSONNEL QUALIFIE.

AVIS: POUR EVITER LES RISQUES D'INCENDIE OU
D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE
A LA PLUIE OU A L'HUMIDITE



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Le symbole éclair avec point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence à l'intérieur du coffret de "voltage dangereux" non isolé d'ampleur suffisante pour constituer un risque d'électrocution.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

FCC Information

Note: This device complies with Part 15 of the FCC rules. This equipment also complies with the rules for Canada under ICES-003. 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.

11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. This apparatus has been designed with Class-I construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding prong).
15. This apparatus has been equipped with a single pole rocker style AC mains power switch. This switch is on the rear panel and should remain readily accessible to the the user. Note that when the power switch is not in the "ON" position, the apparatus is still energized, and internal hazardous voltages are still present.
16. This apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

ATTENTION —Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le règlement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.

17. Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible noise level exposures shown in the following chart.

According to OSHA, any exposure in excess of these permissible limits could result in some hearing loss. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels use hearing protectors while the equipment is in operation. Ear plugs or protectors in the ear canals or over the ears must be worn when operating the equipment in order to prevent permanent hearing loss if exposure is in excess of the limits set forth here.

Duration Per Day In Hours	Sound Level dBA, Slow Response	Typical Example
8	90	Packed garage concert
6	92	
4	95	VW Bus Peace Train
3	97	
2	100	Cranked psychedelic tunes
1.5	102	
1	105	High speed chase on C.H.I.P.s
0.5	110	
0.25 or less	115	Loudest parts at a Heavy Metal concert

**WARNING — To reduce the risk of fire or electric shock,
do not expose this appliance to rain or moisture.**

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Don't forget to visit our website at www.tapcoworld.com for more information about this and other TAPCO products.

What me, read a manual?

Before you begin, please make sure you read the Safety Instructions on page 2 and Getting Started on page 4.

Your new TAPCO® TH-15A active loudspeakers are designed to set up quickly and operate easily. We know it's often seen as a sign of weakness to read a manual, along with asking for directions when lost, but we hope you will read the rest of the manual, at least while nobody is looking.

It is important to keep your receipt in a safe place, and not a bad idea to write your product information here for future reference (i.e., insurance claims, tech support, return authorization, etc.).

Product Serial #:

Purchased at:

Date of purchase:

Getting Started



The following steps will help you set up your loudspeakers quickly.

INITIAL SETTINGS:

1. Turn the LEVEL control on the rear panel all the way down.
2. Set the DIRECT/EQ switch out (DIRECT).
3. Turn the POWER switch OFF.

CONNECTIONS:

1. Connect the line-level signal from your mixer (or other signal source) to the IN jack on the TH-15A rear panel (XLR connector).
2. Connect the supplied AC power cord to the IEC socket on the back of the loudspeaker. Plug the other end into an AC outlet properly configured with the correct voltage as indicated just below the IEC socket.

TURN IT ON:

1. Turn the POWER switch ON.
2. Start your signal source (tape deck, CD, DAW, or whatever), but leave the master level control on your mixer down.
3. Slowly turn up the LEVEL control on the TH-15A to the "U" (unity gain) mark at the center position.
4. Adjust the master volume on your mixer to a comfortably loud listening level. If the volume from the speakers gets really loud, really fast, try turning down the LEVEL control on the TH-15As a bit. If the speakers don't get loud enough, turn up the LEVEL control to achieve a good balance of master volume control and loudness from the speaker.

Now that you have your loudspeakers working, it's time to hunker down and read the rest of this manual...especially the following:

ADDITIONAL TIDBITS OF WISDOM:

- Never listen to loud music for prolonged periods. Please see the Safety Instructions on page 2 for information on hearing protection.
- When you shut down your equipment, turn off the TH-15A loudspeakers first to prevent thumps and other noises generated by any upstream equipment from coming out the speakers. When powering up, turn on the TH-15As last.
- Save the shipping boxes and packing materials! You may need them someday. Besides, your cat will love playing in them and jumping out at you unexpectedly. Remember to pretend like you are surprised!
- Save your sales receipt in a safe place.
- Record the serial number in the space provided on page 3, along with where and when you bought it.

Introduction

Thank you for choosing the TAPCO TH-15A active loudspeakers. The TAPCO product line hails back to the days of TAPCO Corporation, Greg Mackie's first company. TAPCO revolutionized the audio industry back in 1969 with the very first 6-channel mixer specifically designed for keyboards and rock 'n' roll.

In essence, TAPCO redefined the price/performance ratio and made high-quality professional audio equipment accessible to virtually anyone. Today, TAPCO is reborn with the same ideals and is backed by the world-class engineering and manufacturing horsepower of LOUD Technologies.

These versatile compact loudspeakers can be used in a variety of applications. The durable, lightweight enclosure is designed with a socket in the bottom for pole-mounting. In addition, it can be placed on its side as a floor monitor.

The TH-15A active loudspeakers are packed with features and designed to produce transparent and uncolored sound for PA systems and sound reinforcement. The two-way bass reflex (ported) design provides an amazingly flat frequency response from 40 Hz to 20 kHz.

There are many benefits to integrating an active crossover, power amplifiers, and drivers into a single cabinet, and we've taken full advantage of these benefits in the design of the TH-15A.

- The crossover point is designed so that the high and low-frequency drivers are fed only the frequencies that they are best able to reproduce.
- The amplifiers are designed to provide maximum acoustic output from the speakers, yet minimize the danger of speaker damage due to overdriving.
- The connecting wire between the amplifier outputs and the drivers are kept to an absolute minimum so the damping factor of the amplifier isn't compromised by the resistance of long speaker cables.
- The acoustic sum of the outputs from the two drivers are optimized electronically, as well as physically, so the amplitude response is unity and the phase difference is minimal.

In short, all the complex interconnected components in the system are designed to work in harmony with each other to produce the best possible sound.

Here's a quick look at all the features packed into the TH-15A loudspeakers:

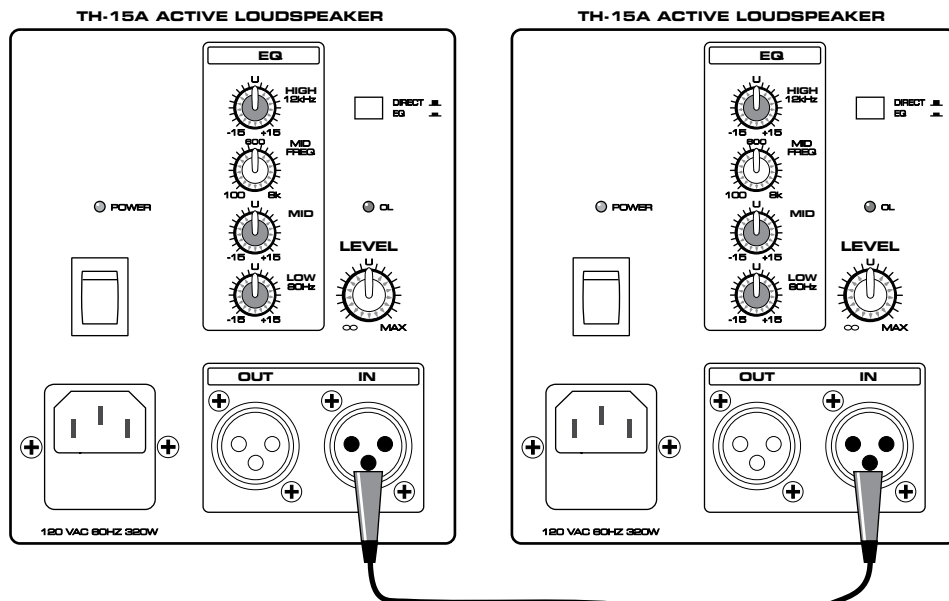
- Flat frequency response (-10 dB, 40 Hz to 20 kHz)
- 1" high-frequency compression driver
- 15" low-frequency woofer
- Convenient portable design, with integrated handles in both sides and top
- Ported, bass reflex design for enhanced bass performance
- 50 watt HF and 150 watt LF power amplifiers
- Low-frequency over-excursion protection
- High-strength lightweight cabinet constructed of polypropylene
- High-density adiabatic fiberfill absorbs internal reflections
- Balanced Mic/Line XLR input and thru connectors
- 24 dB/octave crossover at 3 kHz
- Adjustable input level control
- LF equalization provides ± 15 dB at 80 Hz and below
- MF equalization provides ± 15 dB with sweepable frequency from 100 Hz to 8 kHz
- HF equalization provides ± 15 dB at 12 kHz and above
- EQ bypass (DIRECT) switch
- Rear panel power switch
- Pole-mount socket



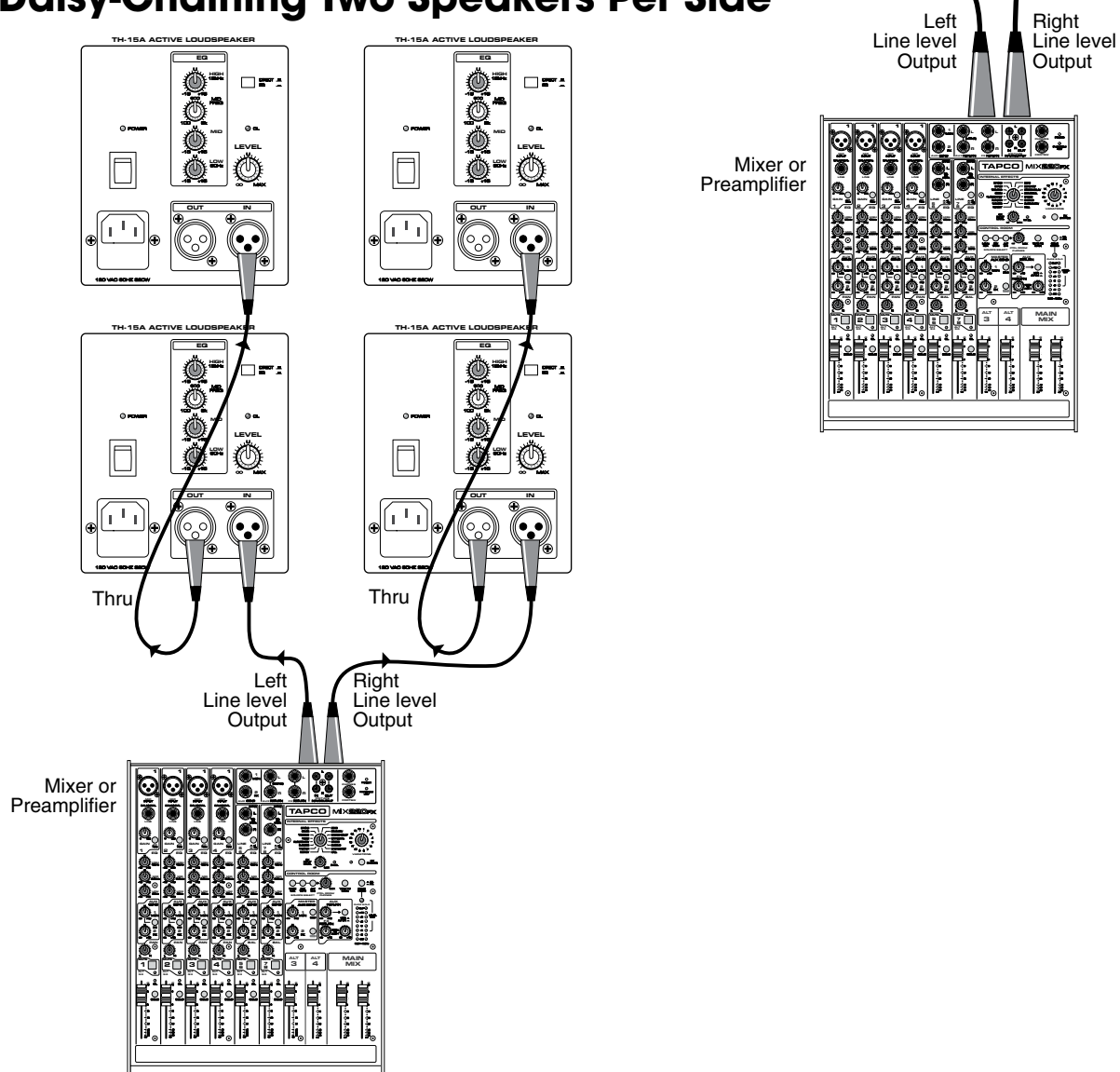
TAPCO van (a.k.a. micro bus)

Hookup Diagrams

Stereo Speaker Hookup



Daisy-Chaining Two Speakers Per Side



TAPCO TH-15A Features

REAR PANEL DESCRIPTION

This is where you connect your signal to the loudspeaker and make adjustments to the frequency response of the speaker to match the loudspeaker's location and your room's environment.

1. INPUT

This is a female XLR-type connector that accepts a balanced mic or line-level signal from a mixing console or other signal source.

2. OUTPUT

This is a male XLR-type connector that produces exactly the same signal that is connected to the input jack. Use it to daisy-chain several TH-15A's together off the same signal source.

3. LEVEL

The LEVEL control adjusts the overall signal level at the input to the built-in power amplifiers. It ranges from Off (∞) to MAX (maximum gain), with unity gain at the center position (12 o'clock).

- The TH-15A is designed to operate with a +4 dBu signal when the LEVEL control is at the U (center) position.
- The TH-15A can accept up to a +20 dBu signal by turning down the INPUT LEVEL control accordingly.
- NEVER connect the output of an amplifier directly to the input of the TH-15A. This could damage the active input circuitry of the loudspeaker.

4. OL Indicator

The OL (overload) indicator lights when the amplifiers in the TH-15A are near the clipping point. It is okay if the OL indicator blinks occasionally, because this means that the transient peaks are just reaching the maximum output of the amplifiers and you are getting the most from your TH-15As.

If the OL indicator is blinking frequently or lighting continuously, turn down the LEVEL control (3) on the TH15A or turn down the signal at its source (e.g., the mixing console) until the OL indicator blinks occasionally or not at all.

5. HIGH EQ

This control gives you up to 15 dB boost or cut above 12 kHz, and it is also flat at the center position (U). Use it to add sizzle to cymbals, and an overall sense of transparency or edge to the keyboards, vocals, guitar, and bacon frying. Turn it down a little to reduce sibilance, or to hide tape hiss.

6. MID EQ

This is a midrange EQ control that provides 15 dB of boost or cut centered at any frequency between 100 Hz and 8 kHz. The MID EQ circuit is flat (no boost or cut) at the center position. This frequency range

includes most vocals (male at the lower end of the range and female at the upper end of the range), and the fundamentals and harmonics for many instruments.

7. MID FREQ

This knob ranges from 100 Hz to 8 kHz and determines the center frequency for the MID EQ filter. This allows you to zero in on the precise narrow band of frequencies you want to have affected by the MID EQ.

8. LOW EQ

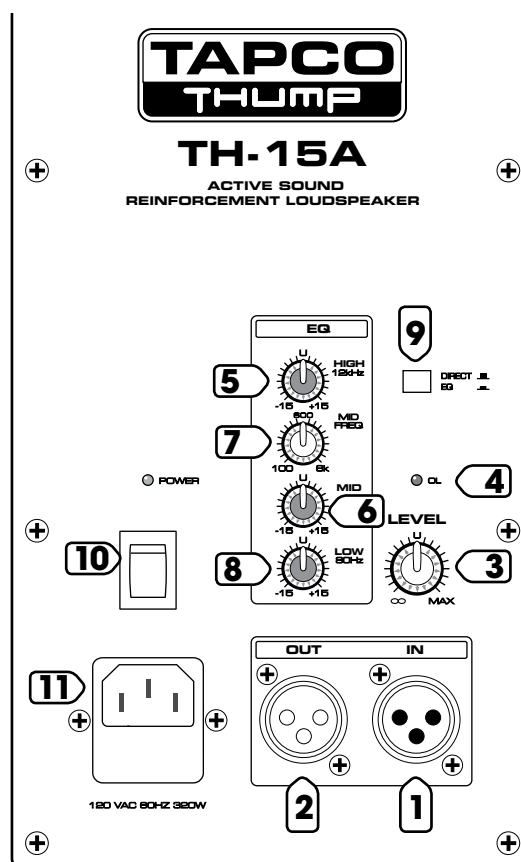
This control gives you up to 15 dB of boost or cut below 80 Hz. The circuit is flat (no boost or cut) at the center position. This frequency range represents the punch in bass drums, bass guitar, fat synth patches, and some really serious male singers.

9. DIRECT/EQ Switch

This switch allows you to bypass the EQ section. When the switch is out (DIRECT), the EQ section is bypassed and the EQ knobs have no effect on the signal. When the switch is pushed in (EQ), the EQ controls can be used to tailor the frequency response of the TH-15As.

10. POWER Switch

Use this switch to turn the active loudspeakers on and off. The indicating LED above the POWER switch lights when the POWER switch is on and AC power is available at the linecord socket. A second power indicator is located on the front of the cabinet.



11. Line Cord Socket and Fuse

Connect the detachable line cord to this IEC socket securely, and plug the other end into your AC outlet. Make sure the AC power is matched to the AC power indicated on the rear panel (under the IEC socket).

The fuse is located behind the fuse cover, at the bottom of the IEC socket. See the "Troubleshooting" section on page 9 for information about replacing the fuse.

Protection Circuits

There are several protection mechanisms designed into the TH-15A to safeguard the loudspeakers and amplifiers from inadvertent damage.



CAUTION: The protection circuits are designed to protect the loudspeakers under reasonable and sensible conditions. Should you choose to ignore the warning signs

(i.e., frequent OL LED indications, excessive distortion), you can still damage the speakers in the TH-15A by overdriving them past the point of amplifier clipping. Such damage is beyond the scope of the warranty.

Overexcursion Protection

A 12 dB/octave high-pass filter at 40 Hz just prior to the low-frequency amplifier prevents very low frequencies from being amplified. Excessive low-frequency energy below 40 Hz can damage the woofer by causing it to "bottom out," also known as overexcursion, which is equivalent to a mechanical form of clipping.

Thermal Protection

All amplifiers produce heat. The TH-15A is designed to be efficient both electrically and thermally.

The amplifier module is mounted on a large heatsink, which is cooled by convection where cool air is drawn through it's fins, carrying the heat away. In order for this convection cooling to work efficiently, it is important to provide adequate airspace behind the loudspeaker. When you position the TH-15A, we recommend leaving at least six inches of air space behind it.

- If for some reason the heatsink gets too hot, a built-in thermal switch activates and turns off the amplifier. This protection operates independently for the low-frequency and high-frequency amplifiers. Therefore, it is possible for only the low frequency or high frequency amplifier to shut down while the other remains on.

- When the heatsink cools down to a safe temperature, the thermal switch resets and normal operation resumes.
- If the heatsink temperature again gets too hot, the shutdown process repeats. Should this happen, make sure that airflow to the rear of the cabinet is not restricted. If the ambient air temperature is very warm, try pointing a small fan toward the heatsink to increase the airflow through the fins.

Driver Protection

Each driver has its own compression circuit, which helps protect them from damaging transient peaks. The compressors are designed to be transparent and are not noticeable under normal operating conditions.

Input Signal Wiring

You should use high-quality, shielded cable to connect the signal source to the IN jack on the TH-15A.

- Foil shielded cables, such as Belden 8451, 8761, or 9501 are commonly used for studio wiring.
- Microphone cables work well.
- The better the shield, the better the immunity from externally induced noise (like EMI and RFI). Route the cable away from AC power cords and outlets. These are common sources for hum in an audio signal. You can purchase quality cables from your Mackie dealer.

Placement

The TH-15A loudspeaker is designed to sit on the floor or stage. It can be pole-mounted via the built-in socket on the bottom of the cabinet. Be sure the pole is capable of supporting the weight of the TH-15A.



WARNING: The cabinet has no rigging points and is not suitable for rigging.

NEVER attempt to suspend the TH-15A by its handles.

As with any powered components, protect them from moisture. If you are setting them up outdoors, make sure they are under cover if you expect rain.

Appendix A: Service Information

Warranty Service

Details concerning Warranty Service are spelled out in the Warranty section on page 15.

If you think your TAPCO TH-15A has a problem, please do everything you can to confirm it before calling for service. Doing so might save you from the deprivation of your loudspeaker and the associated suffering.

These may sound obvious to you, but here are some things you can check. Read on.

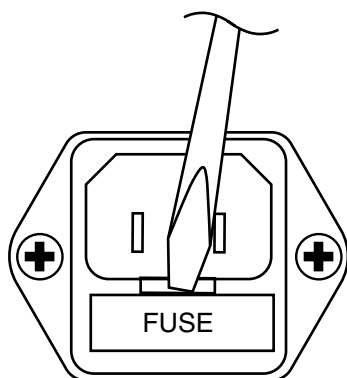
Troubleshooting

No Power

- Our favorite question: Is it plugged in?
- Make sure the line cord is securely seated in the line cord socket and plugged all the way into the AC outlet.
- Make sure the AC outlet is live (check with a tester or lamp).
- Is the POWER switch in the ON position?
- Are the power LEDs on the front and rear panel illuminated? If not, make sure the AC outlet is live. If so, refer to “No Sound” below.
- If the power LEDs are not illuminated, and you are certain that the AC outlet is live, it is possible the fuse has blown.

To remove and replace the fuse:

1. Disconnect the power cord from the IEC socket.
2. Remove the fuse drawer by prying it open with a small screwdriver. It will slide all the way out.



3. Remove the fuse and replace it with an equivalent-type fuse.
115 VAC unit: 3.15 amp slo-blo (T 3.15AL/250 V)
230 VAC unit: 2 amp slo-blo (T 2AL/250 V)
4. Replace the fuse drawer by pushing it all the way back into the IEC socket.

If two fuses blow in a row, then something is very wrong. See the “Repair” section on the next page to find out what to do.

No Sound

- Are the power LEDs on the front and rear panel illuminated?
- Is the LEVEL control turned up?
- Is the signal source turned up? Make sure the signal level from the mixing console (or whatever device immediately precedes the loudspeaker) is high enough to produce sound.
- If it's a stereo pair, try switching them around. For example, if a left speaker is presumed dead, switch the left and right cords at the speakers. If the problem switches sides, it's not the TH-15A. It could be a bad cable, or no signal from the mixer.

Bad Sound

- Is the input connector plugged completely into the IN jack?
- Is something connected to the OUT jack? Try unplugging it. If the sound improves, whatever was plugged into the OUT jack may have affected the signal.
- Is it loud and distorted? Reduce the signal level at the mixer.
- If possible, listen to the signal source with headphones plugged into the preamp stage. If it sounds bad there, it's not the loudspeaker.
- Too much bass or not enough bass? Move around the room and see if the bass response changes. It's possible your listening position coincides with a room mode where the low frequencies either become exaggerated or nulled. If so, try moving the loudspeakers to a different position, or moving your listening position.

Noise/Hum

- Check the signal cable between the mixer and the loudspeaker. Make sure all connections are secure. These problems usually produce crackling noises or hum.
- If you are using two or more TH-15A active loudspeakers, try plugging them all into the same AC outlet panel or outlet strip. The purpose for this is to connect them all to the same earth ground point and reduce the possibility of creating a ground loop.
- If connecting an unbalanced output to the TH-15A balanced input, make sure the shield is connected to the unbalanced ground and to pin 1 of the XLR.

Repair

Service for TAPCO products is available at a factory-authorized service center. Service for TAPCO products living outside the United States can be obtained through local dealers or distributors.

If your loudspeaker needs service, follow these instructions:

1. Review the preceding troubleshooting suggestions. Please.
2. Call Tech Support at 1-877-827-2669, 7 AM to 5 PM PST, to explain the problem and request a Service Request Number. Have your loudspeaker's serial number ready. You must have a Service Request Number before you can obtain factory-authorized service.
3. Keep this owner's manual and the detachable linecord. We don't need them to repair the loudspeaker.
4. Pack the loudspeaker in its original package, including endcaps and box. This is **VERY IMPORTANT**. When you call for the Service Request Number, please let Tech Support know if you need new packaging. **LOUD Technologies is not responsible for any damage that occurs due to non-factory packaging.**
5. Include a legible note stating your name, shipping address (no P.O. boxes), daytime phone number, Service Request Number, and a detailed description of the problem, including how to duplicate it.
6. Write the Service Request Number in BIG PRINT on top of the box. Units sent without the Service Request Number will be refused.
7. Tech Support will tell you where to ship the loudspeaker for repair. We suggest insurance for all forms of cartage.
8. You will need to contact the authorized service center for their latest turn-around times. The loudspeaker must be packaged in its original packing box, and must have the Service Request Number on the box. Once its repaired, the authorized service center will ship it back, pre-paid (if it was a warranty repair).

Note: Under the terms of the warranty, you must ship or drop-off the unit to an authorized service center. The return ground shipment is covered for those units deemed by us to be under warranty.

Note: You must have a sales receipt from an authorized TAPCO dealer to qualify for a warranty repair.

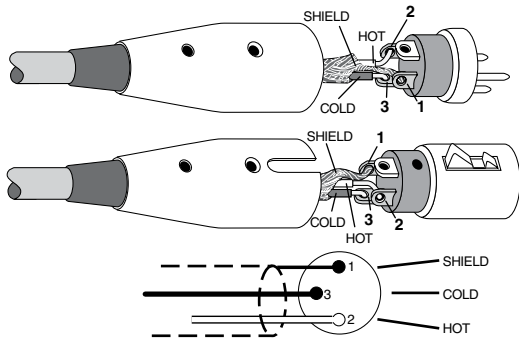
Lonely? Looking for that special someone? Do you have a question about your TAPCO loudspeaker?

Please call our Technical Support chaps at **1-877-827-2669**, Monday to Friday, from 7 AM to 5 PM PST. After hours, visit www.tapcoworld.com and look under **Talk To Us**, or e-mail us at techmail@tapcogear.com

Appendix B: Connections

XLR Connectors

XLR connectors are used to make balanced input and through connections to the TH-15A. They are wired as follows, according to standards specified by the AES (Audio Engineering Society).



XLR Balanced Wiring

- Pin 1 = Shield
- Pin 2 = Hot (+)
- Pin 3 = Cold (-)

Appendix C: TH-15A Specifications

Acoustic Performance

Frequency Range (-10 dB):	40 Hz – 20 kHz
Frequency Response (-3 dB):	50 Hz – 18.5 kHz
Horizontal Coverage Angle:	90°
Vertical Coverage Angle:	60°
Maximum SPL Long-Term:	113 dB SPL @ 1m
Maximum SPL Peak:	116 dB SPL @ 1m

Input/Output

Input Type:	Female XLR Balanced/Unbalanced
Input Impedance:	20 k Ω balanced bridging; 10 k Ω unbalanced
Loop-through:	Male XLR Balanced/Unbalanced (parallel with input)
Level Control:	Rotating knob 0 dB at center
Sensitivity:	+4 dBu for full output (Level Control @ Center) -36 dBu for full output (Level Control @ Max)

Transducers

Low Frequency:	15 in/381 mm with steel frame, paper cone woofer
High Frequency:	Horn-loaded 1 in/25 mm exit compression driver

Power Amplifiers

Low Frequency Power Amplifier	
Rated Power:	150 watts, 8 ohm load 182 watts peak
THD:	<0.1%
Signal-to-Noise Ratio:	> -94 dB, 20 Hz to 20 kHz, unweighted, referenced to 138 watts into 8 ohms
Design:	BTL Class D
High Frequency Power Amplifier	
Rated Power:	50 watts, 4 ohm load 60 watts peak
THD:	<0.1 %
Signal-to-Noise Ratio:	> -97 dB, 20 Hz to 20 kHz, unweighted, referenced to 50 watts into 4 ohms
Design:	Class AB

Electronic Crossover

Crossover Type:	24 dB/octave
Crossover Frequency:	3 kHz

Equalization

Low Frequency EQ:	\pm 15 dB @ 80 Hz, shelving
Mid Frequency EQ:	\pm 15 dB, bandpass, sweepable from 100 Hz to 8 kHz
High Frequency EQ:	\pm 15 dB @ 12 kHz, shelving
Direct/EQ Switch:	Bypasses EQ section

Protection Features

Over-excursion Protection:	Second-order sub-sonic filter
Thermal Protection:	Independent amplifier shutdown, auto reset
Driver Protection:	Independent HF and LF compressors

AC Power Requirements

US:	120 VAC, 60 Hz
Europe:	240 VAC, 50 Hz
Korea:	220 VAC, 60 Hz
Japan:	100 VAC, 50/60 Hz
AC Connector:	3-pin IEC 250 VAC, 20 A male
Fuse:	115 VAC: T 3.15 AL/250 V 230 VAC: T 2 AL/250 V
Power Consumption:	320 watts with music, loud mix 20 watts quiescent (idle)

Construction Features

Basic Design:	Asymmetrical Trapezoidal
Material:	Polypropylene
Finish:	Textured
Handles:	One on each side, one on top
Grille:	Perforated metal with weather-resistant coating
Display LEDs	
Front:	Power ON
Rear:	Power ON, OL (overload)

Physical Dimensions and Weight

Dimensions	
Height:	27.1 in/689 mm
Width:	16.8 in/427 mm
Depth:	11.7 in/296 mm
Weight:	36 lb/16.3 kg

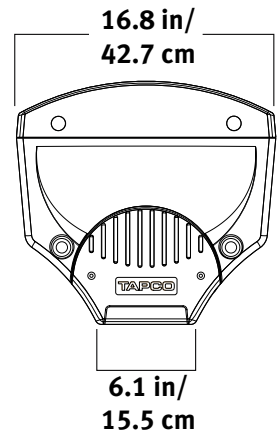
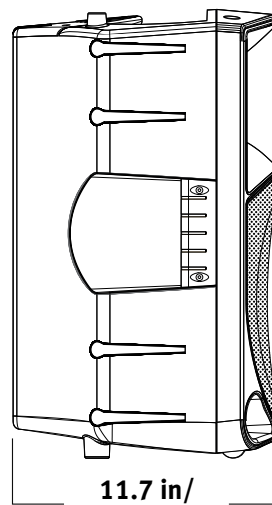
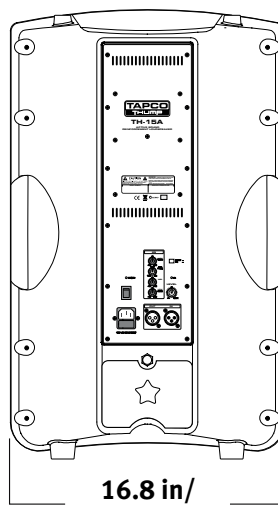
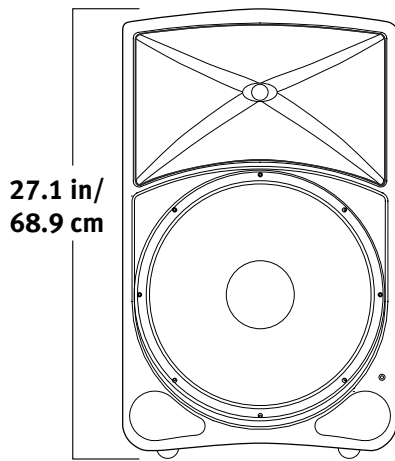
Mounting Methods:

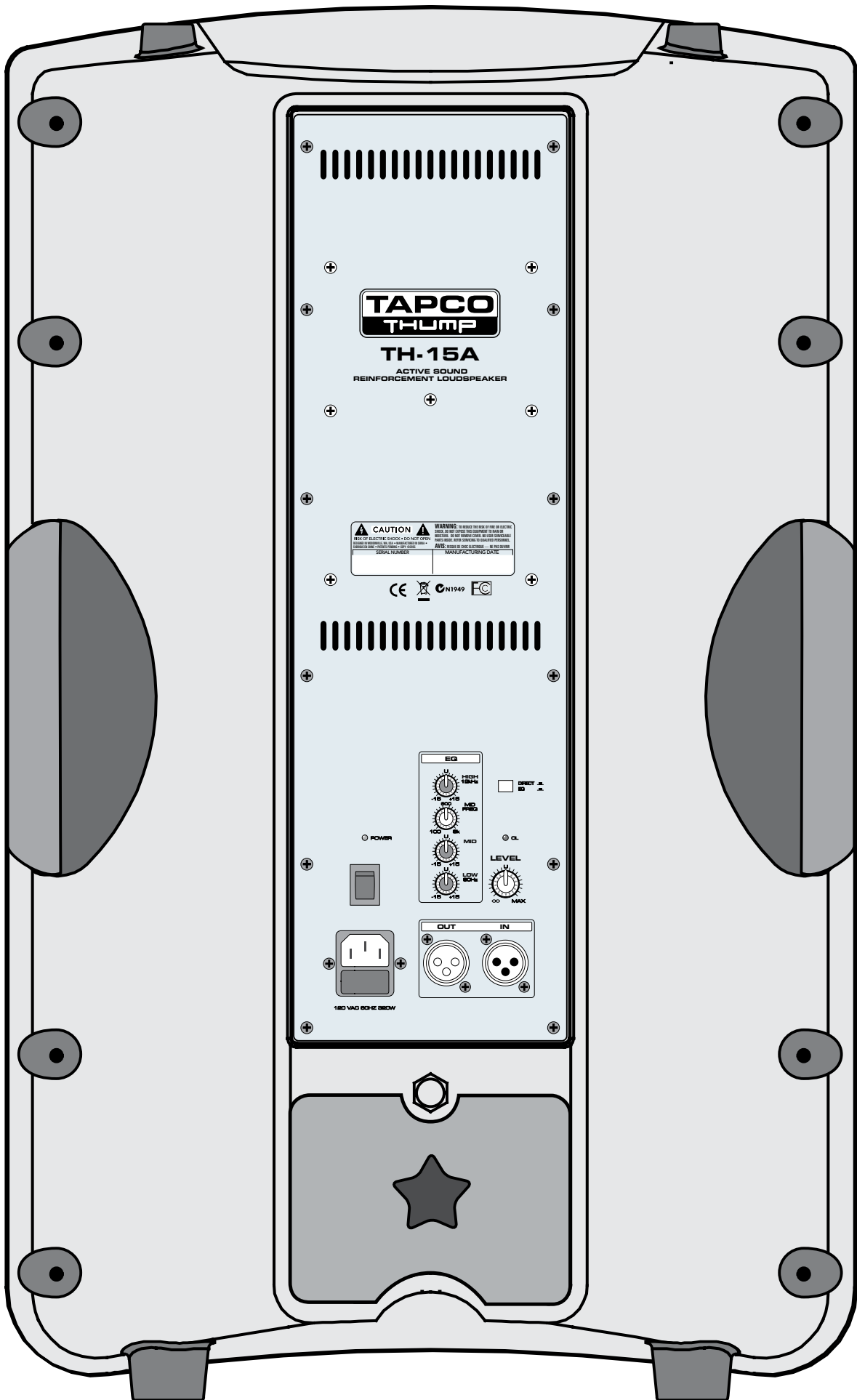
Pole-mountable via the built-in socket on the bottom of the cabinet. Be sure the pole is capable of supporting the weight of the TH-15A.

Disclaimer

Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.

TH-15A Dimensions





TAPCO LIMITED WARRANTY

- A.** LOUD Technologies Inc. warrants all materials, workmanship and proper operation of this TAPCO product for a period of **one year** from the original date of purchase. If any defects are found in the materials or workmanship, or if the product fails to function properly during the applicable warranty period, LOUD Technologies, at its option, will repair or replace the product. **This warranty applies only to equipment sold and delivered within the U.S. by LOUD Technologies or its authorized dealers.**
- B.** Service and repairs of TAPCO products are to be performed only at a factory-authorized service center. Unauthorized service, repairs, or modification will void this warranty.
- C.** To obtain factory service, please follow the instructions found on pages 9 and 10.
- D.** LOUD Technologies Inc. reserves the right to inspect any products that may be the subject of any warranty claims before repair or replacement is carried out. LOUD Technologies may, at their option, require proof of the original date of purchase in the form of a dated copy of the original dealer's invoice or sales receipt. Final determination of warranty coverage lies solely with LOUD Technologies Inc.
- E.** TAPCO products returned to one of LOUD Technologies factory-authorized service centers and deemed eligible for repair or replacement under the terms of this warranty will be repaired or replaced within thirty days of receipt. LOUD Technologies may use refurbished parts for repair or replacement of any product. Products returned that do not meet the terms of this Warranty will not be repaired unless payment is received for labor, materials, return freight, and insurance. Products repaired under warranty will be returned freight prepaid by LOUD Technologies to any location within the boundaries of the USA.
- F.** LOUD Technologies warrants all repairs performed for 90 days or for the remainder of the original warranty period. LOUD Technologies assumes no responsibility for the quality or timeliness of repairs performed by Authorized TAPCO Service Centers.
- G.** This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse, or to exterior appearance. This warranty is recognized only if the inspection seals and serial number on the unit have not been defaced or removed.
- H.** This warranty is extended to the original purchaser and to anyone who may subsequently purchase this product within the applicable warranty period. A copy of the sales receipt is required to obtain warranty repairs.
- I.** This is your sole warranty. LOUD Technologies Inc. does not authorize any third party, including any dealer or sales representative, to assume any liability on behalf of LOUD Technologies or to make any warranty for LOUD Technologies.
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