



THE
Technomad[®]
THE TOUGHEST LOUDSPEAKERS IN THE WORLD.

**OWNER'S MANUAL AND
OPERATION GUIDE.**

Technomad[®]

THE TOUGHEST LOUDSPEAKERS IN THE WORLD[®]

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Polyethylene Cabinets

Technomad: Not Just Another Plastic Loudspeaker

Technomad loudspeakers are often compared to the many other lines of plastic loudspeakers. Several important factors in the Technomad design and manufacturing process greatly distinguish Technomad from the growing field of plastic loudspeakers.

Design

Technomad loudspeakers are designed for higher performance and output applications than all other plastic loudspeakers available. Technomad also offers a wider range of features making Technomad loudspeakers the only choice for year-round, indoor, outdoor, permanent, semi-permanent or mobile applications. No other plastic loudspeaker can match Technomad in application, flexibility, fidelity durability, options, price and performance.

Manufacturing

Technomad enclosures are manufactured of military grade polyethylene and cast as an extremely rugged one piece unit. Our cabinet manufacturing process produces an incredibly uniform linear wall thickness of .5" with .75" thick corner areas. Technomad's loudspeaker construction process sets our loudspeakers apart from all other plastic loudspeakers in two ways: The cabinet walls of most plastic loudspeakers are 25% to as much as 65% thinner than the cabinet walls of a Technomad loudspeaker. A Technomad loudspeaker cabinet is able to endure greater abuse than any other commercially available loudspeaker - regardless of construction materials and manufacturing methods. Also, a thicker cabinet wall has better acoustic properties than a thinner loudspeaker cabinet wall. The thicker cabinet wall prevents distortion and/or inefficiency problems due to wall flex. Technomad loudspeakers produce a full, articulate sound, comparable to the performance of a multi-ply Baltic birch cabinet.

Compliances/Specifications Met

Technomad self-casing loudspeakers are designed to meet and exceed ATA-III, and fully comply with United States Military Specification 810E. No other commercially available plastic or wood loudspeaker can make that claim.

Technomad polyethylene cabinets have many advantages over traditional wooden cabinets. Unlike wood, high quality recycled polyethylene is a renewable resource. Polyethylene is impervious to moisture, virtually all solvents, mold, mildew, and UV radiation. There is no waste in the Technomad cabinet manufacturing process. Because they are cast as one solid piece through a low stress manufacturing process, Technomad cabinets are extremely strong and do not splinter or crack when subjected to abuse.

Cabinet Maintenance

Maintenance of Speaker Body

The Technomad polyethylene loudspeaker cabinet is a manufacturing breakthrough. The one-piece Technomad speaker cabinet provides a very rugged, watertight and scratch-resistant enclosure for transporting the high-quality sound reproduction electronics. Your Technomad speaker will need very little maintenance. If, after some time, you want to eliminate scratches that develop, follow these simple instructions:

Technomad Cabinet Refurbishment:

1. Thoroughly clean the surface of the speaker using warm water, a soft brush, and mild non-detergent soap.
2. Dry the loudspeaker.
3. Using a propane blowtorch, slowly fan the flame over the scratches you need to repair. In a few seconds you will see the scratches disappear and the surface will become shiny as a thin film of plastic liquifies. Deep scratches may take longer to erase. **IT IS POSSIBLE TO CHAR THE SPEAKER** if the flame is kept on one area for too long. Constantly keep the flame in motion. Keep the flame away from the loudspeaker cones, compression drivers, foam grill covering, Neutrik jacks and other hardware. **SPECIAL CARE IS NEEDED WHEN FLAME TREATING PARIS, and VIENNA LOUDSPEAKERS.**
4. Allow the surface to completely cool for 15 or more minutes or until the treated area is cool and hard to the touch.
5. Buff the surface with a 3M™ Scotch-Brite pad, fine steel wool or other mild abrasive. This will bring the treated surface area back to the original factory finish.



Before



After

Deployment- AS Series

AS Series

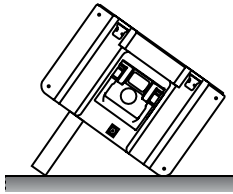
Technomad AS Series loudspeakers can be set up quickly and efficiently in many configurations. The AS Series includes the Noho C, , Berlin 15/H, Cairo 15/C full- range loudspeakers and Soho 12 Chicago 15/12 subwoofers.

Stand Mounting

All Technomad AS Series loudspeakers feature *four* 1.5" diameter stand mounting sockets - one per side - molded directly into the cabinet. Technomad's stand mounting sockets are flush with the surface of the loudspeaker cabinet to allow for quick and easy set-up, break-down, and storage.

MonitorTilt™

Technomad AS Series loudspeakers include 1.5" diameter sockets on the rear of the loudspeakers which allow any AS Series loudspeaker to be used as a monitor. Two lengths of 1.5" tubing are inserted into these sockets to angle the loudspeaker to the appropriate angle. The angle of the tilt can be adjusted through the use of different length tubing.



Flying

WARNING: *Suspending any object is a potentially dangerous and should only be attempted by qualified individuals.*

AS Series Technomad loudspeakers are equipped with flying points. The Noho C and Soho 12 loudspeakers are equipped with 4x 1/4-20 threaded inserts on the top and side. The Berlin 15/H, Cairo 15/C and Chicago 15/12 loudspeakers all feature 4x 3/8-16 threaded inserts on all sides. All flypoints are rated at 10:1. All flypoints allow the loudspeaker to be used in either the horizontal or vertical orientation. **DO NOT SUSPEND THE LOUDSPEAKER FROM FEWER THAN TWO SUSPENSION POINTS!!! DO NOT HANG THE LOUDSPEAKER FROM THE HANDLE!!!**

Bracket Mounting

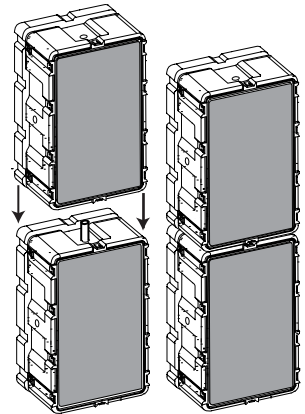
Noho C and Soho 12 loudspeakers have 4 x 1/4-20 T-nut inserts molded into the back of the cabinet for use with a multi-position bracket. Berlin 15/H, Cairo 15/C, Chicago 15/12 loudspeakers all feature 4x 3/8-16 threaded inserts on the back of the cabinet for use with multi-position brackets.

Stacking- AS Series

Technomad loudspeakers are highly modular and can be quickly and easily assembled into large arrays. Two different methods can be used.

Tour Model Loudspeakers

All AS Series loudspeakers feature 1.5" diameter sockets in the center of each side. These allow Tour Model loudspeakers to be easily stacked using the Stacking Tube Set. First, attach the lid to the back of the cabinet using the four back-latches. The lid increases the footprint of the stack, giving it greater stability. Once the lid has been attached, the speaker can now be stacked with any other Tour Model Technomad using one of the two lengths of tubing in the Stacking Tube Set. For vertically oriented loudspeakers, insert the longer tube in the top socket of the bottom speaker. Lift the second speaker to be stacked and place it on top of the bottom unit so that the tube goes into the corresponding socket. Horizontally oriented speakers can be stacked in the same way, using the shorter tube. **Do not stack more than two units high using this method!**

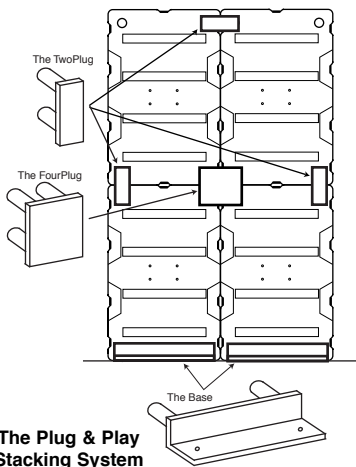


Tour model loudspeakers stacked using the Stacking Tube Set

Plug & Play Stacking System

Berlin 15/H, Cairo 15/C and Chicago 15/12 loudspeakers can be stacked into bigger arrays suitable for large venue sound reinforcement through the use of the Plug & Play Stacking System. These three models all have four 1.5" sockets molded into the back of the cabinet, one per corner.

There are three basic elements to the Plug & Play system- the TwoPlug, the FourPlug, and the Base. All have 'plugs' which fit into these rear sockets, making assembly quick, easy and secure. In all Plug & Play stacked arrays, the Base is needed at the bottom of the stack for added stability. **If you are deploying a stack more than two units high, the Base must be bolted to the floor.** The TwoPlug connects two loudspeakers together by plugging into one socket on each cabinet. A pair of TwoPlugs can be used to make a simple stack of two units. For larger systems, the TwoPlug and the Base can be combined with the FourPlug to form arrays of speakers up to three units high and as many units wide as is necessary. As shown in the diagram, the FourPlug is used at the junction of four units to lock the entire stack together. The TwoPlug is used at the ends and the top of the stacks and the Base is used at the bottom of each stack. Detailed instructions are included with each set of Plug & Play Stacking Accessories.



The Plug & Play Stacking System

Deployment- MP Series

MP Series

Technomad MP Series are designed to be installed in a wide variety of applications and environments. The MP Series includes the Vernal 15, Vienna 16 and the Paris 616 loudspeakers.

Stand Mounting

Paris and Vienna loudspeakers feature T-nuts on the bottom of the cabinet for attaching 3rd-party bolt-on standmount adapters.

Flying & Bracket Mounting

WARNING: Suspending any object is a potentially dangerous and should only be attempted by qualified individuals.

Paris and Vienna loudspeakers feature 5/16-18 T-nut inserts, one per side for use with U brackets for flying or wall mounting.

Multi-position wall mounts

Paris and Vienna loudspeakers feature 4 x 1/4-20 T-nut inserts on the center of the back of the cabinet for use with the Paris/Vienna bracket. This hole pattern is also compatible with APC and Omnimount products.

Transformers

MP Series loudspeakers are available with an optional transformer for use in 70 volt distributed systems. The multi-tap transformer is controlled with a 5 position switch. Starting from the position the farthest counter-clockwise the Vernal T settings are as follows: a bypass setting allowing the loudspeaker to operate in normal 8 ohm mode, then taps of 8w, 16w, 32w, and 64w at 70v. Starting from the position the farthest counter-clockwise the Vienna T and Paris T settings are as follows: a bypass setting allowing the loudspeaker to operate in normal 8 ohm mode, then taps of 16w, 32w, 64w, and 128w at 70v.

Wiring

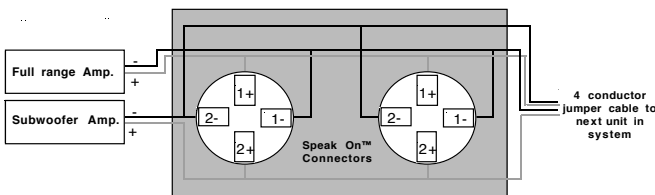
Each Technomad loudspeaker cabinet features locking, weather-resistant Neutrik Speak-On™ connectors. Neutrik jacks work with 2 conductor and 4 conductor wire. The Neutrik jacks have four internal connection points. One pair is marked “1” and the second pair is marked “2”. When buying or making Neutrik-terminated cables to interface with Technomad speakers, it is important to observe the following:

- 1+/1- These are the in/out connections for full range units (Berlin 15/H, Noho C, HF/MF of the Cairo 15/C, Paris 616 and Vienna 16.) & the Soho 12 subwoofer. In other subwoofer units, this pair simply passes full range signal through the loudspeaker from one Speak-On™ to the other.
- 2+/2- These are the in/out connections for large subwoofer units (Chicago 15/12, LF driver of the Cairo 15/C) In full range units, this pair simply passes subwoofer signal from one Speak-On™ to the other.

The Soho 12 is a subwoofer, but it is wired to the “1” pair for ease of use. Featuring an internal passive crossover, the Soho can be run from the same signal as the Noho, reducing the number of cables & amp channels needed.

The signal pass-through feature allows multiple speakers to be driven by one amplifier. Each speaker can be daisy-chained from the previous unit. This simplifies the cabling required for any multiple unit system. Through use of a 4 conductor cable, two separate signals can be sent to the system from two separate amplifier channels. This feature allows the operator to use a single cable to power both the full range and subwoofer speakers in an array. Because both signals are passed to each connector, subwoofer units and full range units can be run from the same cabling. As long as the proper connections are made to the appropriate amplifier channels (+1/-1 to the full range amplifier, +2/-2 to the subwoofer amplifier), cabling is quick and easy to set up.

Caution should be used when daisy-chaining multiple loudspeakers from a single amplifier. If the minimum load impedance for the amp is 4 ohms, a maximum of 1 subwoofer or 2 full-range loudspeakers should be connected in series. Remember, using four conductor wiring to connect two separate amplifiers to a full-range and subwoofer combination does not drop the load on the amplifiers - each amp is still seeing 8 or 4 ohms respectively. Only if speakers of the same type (full-range or subwoofer) are daisy-chained from the same amp is the load on the amp reduced. If a cable is over 20' long, 12 gauge wire is highly recommend to prevent signal degradation.

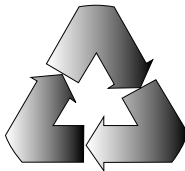


Environmental Concerns

Technomad loudspeaker cabinets are manufactured of 100% recycled materials and meet Military Specification 810E. Our manufacturing and cabinet design advances allow us to utilize 90% post-industrial and 10% post-consumer plastics in the manufacture of our black loudspeaker cabinet moldings and 15%, or more, post-consumer materials in the manufacture of our custom-colored loudspeaker cabinets. Unlike wood, the materials utilized in the manufacture of Technomad loudspeaker cabinets can be infinitely recycled with little or no breakdown of the material's integrity. Only dyes free of heavy metals are used in coloring Technomad loudspeaker cabinet moldings. Technomad cabinets are completely inert. They will not rust, corrode, rot, chip, crack, fade, warp, or give off any harmful smells, chemical vapors, toxins, paint or adhesive residue, etc.

Technomad also strives to minimize our environmental impact in other ways. We do all printing on recycled paper and we emphasize minimum-impact ways of distributing information, such as the Internet, phone, fax, and email.

At Technomad, we are very confident this manufacturing process is a pro audio industry first. We feel it is important for manufacturers to use recycled materials whenever possible to help create demand for these materials and close the recycling loop. We are proud that our policies contribute to, and will continually set examples for, the ever increasing environmentally conscientious manufacturing industries of the world.



General Info

Troubleshooting

1. No sound from speaker:

A) Make sure that the cabling you are using is wired correctly. The signal for the full range units must be wired to the "1" pair of contacts on the cable-mounted Neutrik Speak-On™. For the low frequency units, the Chicago 15/12 and the 15" LF driver of the Cairo 15/C, the signal must be connected to the "2" pair of contacts on the Speak-On. See page 7 for details.

B) Technomad loudspeakers are equipped with fuses for component protection. Check the fuses to ensure that they are still intact. The fuse holders are located on the bottom of the loudspeaker in the handle well on AS Series loudspeakers and on the back of the loudspeakers near the connectors on MP Series loudspeakers. See the separate fuse sheet included with this manual for proper fuse values.

2. Excessive Rattling:

If, at high volumes, pronounced rattling occurs double check that the latches holding the lid onto the rear of the cabinet are fully closed and locked. If they are not, the lid can vibrate against the back of the cabinet.

Technical Support

For tech support, call your dealer, call 800.464.7757, fax at 617.451.8999, or send e-mail to info@technomad.com.

World Wide Web

Visit our Website and get all of the latest info on Technomad loudspeakers .

<http://www.technomad.com>

- Product Updates
- Dealer and Rep. listings
- QuickTime Movie clips of Technomad loudspeakers being shot with a shotgun, pummeled with a 20 pound sledge hammer, thrown from a 45 foot bridge into a river and doused with gasoline and set aflame!
- Product Specifications
- Press Releases

The Website changes monthly so be sure to always check back for the latest information.

Accessories

Technomad loudspeakers are designed for maximum flexibility and ease of use. Technomad offers several accessories which enhance the day-to-day practicality of our loudspeakers.

The Technomad Dolly-

This four wheel dolly locks onto the back of any large Technomad loudspeaker. Featuring four 5" diameter rubber wheels, the dolly allows the user to easily transport up to 4 large Technomad speakers.

The Noho Dolly-

A smaller version of the Technomad dolly, the Noho Dolly is compatible with the Noho and Soho model loudspeakers. It features 3.5" diameter casters.

The Monitor Tube Set-

This set allows all AS series loudspeakers to be used as floor monitors.

The Paris/Vienna Wall-mount bracket

This multi-position bracket allows Paris and Vienna loudspeakers to be mounted to walls and accurately deployed.

One of the following accessories are necessary when stacking Technomad AS Series loudspeakers.

The Stacking Tube Set-

This set allows any two AS Series Tour Model loudspeakers to be securely stacked in either horizontal or vertical orientation.

The Plug & Play System-

These components allow AS Series loudspeakers to be quickly and easily assembled into large arrays. See page 5 for more details.

The TwoPlug- Connects two speakers
The FourPlug- Connects four speakers
The Base- Connects the stack to the floor

Technomad T-Shirt-

XL T-shirt, white Technomad logo on front.