



IWEISS

**PIPE GRID
OPERATION AND
MAINTENANCE MANUAL**

**Anyplace Theater
Job Name**

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IWEISS.COM

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The information in this manual will not cover all possible situations, nor could such inclusive instructions be written by the equipment manufacturer due to the various processes of mounting theatrical equipment. This manual is intended to provide a guide to the safe and efficient operation of the furnished stage equipment and its routine maintenance. No manual can replace your duty to exercise constant vigilance and common sense. iWeiss is not responsible for any damage that results from your failure to comply with this manual.

iWeiss Inc liability to any party injured or suffering a loss in connection with the purchase, set up, use, operation, maintenance or control of the product, (User) is contained exclusively in the limited warranty which is attached to and made part of this Operation and Maintenance Manual.

User accepts the limited warranty of iWeiss Inc as in effect from time to time with respect to the product, a copy of which shall be included as part of this manual and the packaging included with the product. User acknowledges receipt of the limited warranty currently in effect. The limited warranty of iWeiss Inc is in lieu of all other warranties, whether expressed or implied. User shall keep a copy of iWeiss Inc limited warranty and this Operation and Maintenance Manual intact and available for reference at any time and limit the use of the product to persons fully familiar with the warranty and the manual. iWeiss reserves the right to change at any time and from time to time the terms and conditions of the limited warranty, and any such changes shall become effective immediately upon iWeiss forwarding such changes in writing to the User. User acknowledges and agrees that liability of iWeiss with respect to the product shall be limited solely to the aforementioned limited warranty of iWeiss, as may be changed or modified from time to time by iWeiss. In the event User maintains, repairs, services or operates the product in a manner in any way inconsistent with the contents of this Operation and Maintenance Manual, such action shall effectively terminate any iWeiss warranty for such product.



SAFETY INFORMATION

IMPORTANT SAFETY INFORMATION

- Read this manual carefully before using this product. Failure to do so can result in injury or death.
- The procedures in the manual are for use by qualified personnel only.



WARNING! IMPROPER INSTALLATION OR MAINTENANCE CAN CAUSE LOAD TO FALL.

- Equipment must be installed by qualified personnel.
- Do not substitute or modify components provided with this equipment.
- The Pipe Grid is meant for the suspension of lighting instruments and other theatrical equipment ONLY; it is NEVER to be used for the suspension of people.
- Follow all OSHA guidelines for overhead work and fall protection when warranted.
- All suspension hardware should be under tension and taut.
- Never attempt to adjust or alter the hanging rods in any way.
- No live loads.
- Do not swing from the grid.
- Do not paint fittings.
- Do not apply diagonal force to the pipes.
- All loads should be hung perpendicular to the floor.
- The matrix of the grid should be square at all times.
- Attachment of lighting instruments must be per lighting manufacturer's recommendations.
- Safety cables must be installed on all lighting instruments.
- Instruments units should be hung between the hanging clamps and connection clamps, never on top of them.
- Instrument should be hung no farther than 18" from nearest suspension where pipe is cantilevered.
- ALWAYS keep loose objects in a container or tethered in some fashion.
- When working on the grid, ground floor personnel should be forewarned of grid activity prior to entering the room.



PROJECT SPECIFIC SYSTEM DESCRIPTION

A pipe grid is a horizontal structure hung over a stage, auditorium, or studio to support lights, scenery, and other theatrical elements. The grid is made from pipes crossing on right angles at set intervals.

The pipe grid in this space was designed to support a live load of xx lbs per linear foot.

This pipe grid is approximately 0'-0" w x 0'-0" l comprised of 1- 1/2" Schedule 40 steel pipe. The grid is a bi-level structure, meaning that one series of pipes are attached above another.

The primary pipes are those pipes that are directly suspended from the building structure. These pipes are suspended with lengths of threaded rod via single expansion anchors in the concrete roof deck. The pipe is hung from the threaded rod by a turnbuckle to a pipe clamp. The secondary pipes are those pipes that are suspended perpendicularly from the primary pipes, and are not directly connected to building structure. The pipes are connected by ridged clamps that hold the pipes at 90 degree angles from one another. This method of attachment of the secondary pipes to the primary pipes creates the bi-level structure.



CHECKS AND MAINTENANCE PROCEDURES

INSPECTIONS

ANNUAL MAINTENANCE INSPECTION

All theatrical rigging equipment requires an ANNUAL MAINTENANCE INSPECTION to insure safety and trouble-free operation. Inspect on a scheduled basis and keep records [See Maintenance Log]. These records will provide information on length of service and any changes that might indicate worn parts. Industry standards require that a safety inspection be performed by a professional stage-rigging company, employing ETCP certified riggers, at least once a year.

ROUTINE VISUAL INSPECTION

The User should always be aware of the equipment and its various components. The frequency of the routine visual inspection depends on the usage and severity of the operating conditions. At a minimum the owner should look for problems (loose fittings, obstructions, wear, etc.) and conduct a full visual inspection at least once a month.

MAINTENANCE

MAINTENANCE INSTRUCTIONS

- Inspect the terminations of the threaded rod to the building structure.
- The threaded rod should be visible in the opening of the body of the turnbuckle.
- Turnbuckles should remain “moused” at all times.
- Inspect connections between pipes.
- Inspect pipe clamps and how plumb they are in relation to the hanging rods.
- Check and tighten, if needed, all mounting/connecting bolts and nuts.
- Keep safety end caps in place except when access is required.
- Discontinue use of pipe that has been bent or disfigured by undue force or trauma.



WARRANTY

LIMITED WARRANTY

The limited warranty stated below is given in place of all other warranties, express or implied, of merchantability, fitness for a particular purpose, or otherwise; no promise or affirmation of fact made by any agent or representative of seller shall constitute a warranty by seller or give rise to any liability or obligation.

Seller warrants that on the date of delivery to carrier the equipment is free from defects in workmanship and materials.

Seller's sole obligation in the event of breach of warranty or contract, or for negligence or otherwise with respect to equipment sold, shall be exclusively limited to repair or replacement, Freight On Board, Seller's point of shipment, of any parts which Seller determines to have been defective or if Seller determines that such repair or replacement is not feasible, to a refund of the purchase price upon return of the equipment to Seller.

Any action against Seller including but not limited to breach of warranty, breach of contract, product defect, negligence or otherwise, must be commenced within one year after such cause of action accrues.

Seller shall not be liable for any damage, injury or loss arising out of the use of the equipment if, prior to such damage, injury or loss, such equipment is (1) damaged or misused following the Seller's delivery to carrier; (2) not maintained, inspected, or used in compliance with applicable law and Seller's Operation and Maintenance Manual; or (3) installed, repaired, altered or modified without compliance with such law, or manual.

INDEMNIFICATION AND SAFE OPERATION

Buyer shall comply and require its employees to comply with directions set forth in instructions and manuals furnished by Seller and shall use and require its employees to follow such instructions and manuals and to use reasonable care in the use and maintenance of the equipment. Buyer shall not remove or permit anyone to remove any warning or instruction signs on the equipment. In the event of personal injury or damage to property or business arising from the use of the equipment, Buyer shall within 48 hours thereafter give Seller written notice of such injury or damage and shall cooperate in the handling of any claims arising therefrom.

If Buyer fails to comply with this section or if any injury or damage is caused, in whole or in part, by Buyer's failure to comply with applicable federal or state safety requirements and/or Buyer's failure to follow Seller's Operation and Maintenance Manual, Buyer shall indemnify and hold Seller harmless against any claims, loss or expense for injury or damage arising from the use of the equipment.

Buyer shall indemnify, defend, and hold Seller harmless.

MAINTENANCE LOG

INSPECTION LOG
