



FEDERAL SIGNAL
Safety and Security Systems / **Industrial**

Advancing security and well being

Model 350WBX Vibratone® Horn for Hazardous Locations



Installation Manual

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Warranty – Seller warrants all goods for five years on parts and 2-1/2 years on labor, under the following conditions and exceptions: Seller warrants that all goods of Seller's manufacture will conform to any descriptions thereof for specifications which are expressly made a part of this sales contract and at the time of sale by Seller such goods shall be commercially free from defects in material or workmanship. Seller reserves the right at the Seller's discretion to "Repair and Return" or "Replace" any item deemed defective during the warranty period. This warranty does not cover travel expenses, the cost of specialized equipment for gaining access to the product, or labor charges for removal and reinstallation of the product. This warranty shall be ineffective and shall not apply to goods that have been subjected to misuse, neglect, accident, damage, improper maintenance, or to goods altered or repaired by anyone other than Seller or its authorized representative, or if five years have elapsed from the date of shipment of the goods by Seller with the following exceptions: lamps and strobe tubes are not covered under this warranty.

Outdoor warning sirens and controllers manufactured by Federal Warning Systems are warranted for two years on parts and one year on labor. No agent, employee, representative or distributor of Seller has any authority to bind the Seller to any representation, affirmation, or warranty concerning the goods and any such representation, affirmation or warranty shall not be deemed to have become a part of the basics of the sales contract and shall be unenforceable. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OR MERCHANTABILITY, FITNESS FOR PURPOSE AND OF ANY OTHER TYPE, WHETHER EXPRESS OR IMPLIED. These warranties shall not apply unless Seller shall be given reasonable opportunity to investigate all claims for allegedly defective goods. Upon Seller's instruction a sample only of allegedly defective goods shall be returned to Seller for its inspection and approval. The basis of all claims for alleged defects in the goods not discoverable upon reasonable inspection thereof pursuant to paragraph 8 hereof must be fully explained in writing and received by Seller within thirty days after Buyer learns of the defect or such claim shall be deemed waived.



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Safety Messages to Installers

⚠ WARNING

The installation, maintenance, and disposal of this product must be carried out in accordance with national codes and standards.

It is important to follow all instructions shipped with this product. This device is to be installed by a trained electrician who is thoroughly familiar with and will follow all applicable national and local codes in the country of use.

The selection of the mounting location for the device, its controls and the routing of the wiring is to be accomplished under the direction of the Facilities Engineer and the Safety Engineer. In addition, listed below are some other important safety instructions and precautions you should follow:

- Read and understand all instructions before installing or operating this equipment.
- Do not connect this unit to the system when power is on.
- Optimum sound distribution will be severely reduced if any objects are in front of the speaker. You should ensure that the front of the speaker is clear of any obstructions.
- All effective warning horns produce loud sounds which may cause, in certain situations, permanent hearing loss. The device should be installed far enough away from potential listeners to limit their exposure while still maintaining its effectiveness. National Noise Standards, such as The OSHA Code of Federal Regulations 1910.95 in the United States, provide guidelines which may be used regarding permissible noise exposure levels.
- After installation, ensure that all mounting screws are tightened.
- Establish a procedure to routinely check the sound system for proper activation and operation.
- Provide a copy of these instructions to the Safety Engineer, operator(s) and maintenance personnel.

Installation Instructions

- File these instructions in a safe place and refer to them when maintaining and/or reinstalling the device.

Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death.

⚠ WARNING

EXPLOSION HAZARD—Substitution of components may impair suitability for Class I, Division 2, Groups A, B, C and D; Class II, Division 2; Groups F & G; and Class III.

⚠ WARNING

EXPLOSION HAZARD—Do not disconnect equipment unless power has been switched off or unless the area is known to be non-hazardous.

Unpacking the Product

After unpacking the product, examine it for damage that may have occurred in transit. If the beacon has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier, stating the extent of the damage. Carefully check all envelopes, shipping labels, and tags before removing or discarding them. Disposal of all shipping materials must be carried out in accordance with national and local codes and standards. If any parts are missing, please call Federal Signal Customer Support at 708-534-4756 or 877 289-3246.

Product Specifications

This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F & G; Class III or non-hazardous locations only.

Table 1 Audibility and Electrical Ratings

Voltage	Current (Amperes)	Hz	dB*	dB**
120	0.18/0.22	50/60	100	94
230-240	0.09	50/60	100	94

*Measured on-axis at 10 ft/3 m in an anechoic chamber.

** Underwriters Laboratories omnidirectional sound pressure level rating at 10 feet.

Installing the Model 350WBX

In all installations, it is recommended that the electrical wiring to the installation site be completed before the horn is mounted. Installations are subject to national and local electrical and fire codes and standards.

The 350WBX is gasketed and has two 3/4-14 NPT and one 1/2-14 NPT tapped openings to accommodate supply connections.

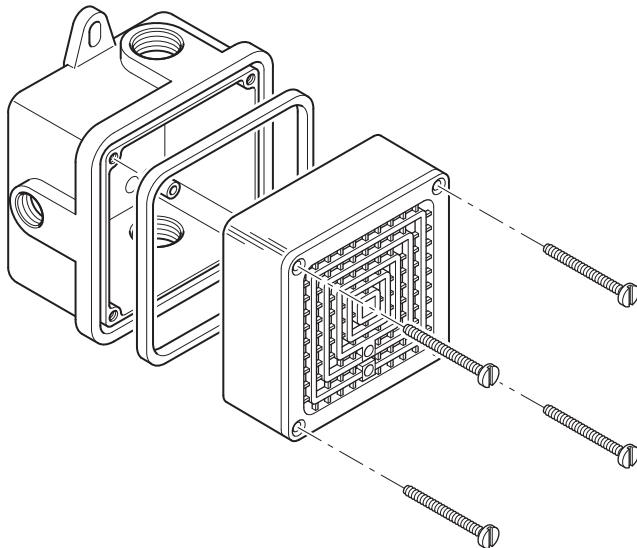
⚠ WARNING

SHOCK HAZARD—To avoid electrical shock hazards, do not connect wires while power is applied.

To install the Model 350WBX:

1. Use the rear enclosure of the 350WBX as a template and mark the location of the mounting ears on the mounting surface. Secure the 350WBX to the mounting surface with user-supplied fasteners suitable for the mounting surface.
2. See Figure 1. Remove and retain the four screws that secure the horn to the rear enclosure and remove the horn.

Figure 1 Model 350WBX with mounting hardware



Installation Instructions

3. Attach the supply wires to the terminal block as shown in Figures 2 and 3. The terminal block is capable of accepting both solid and stranded wire within the range of 10 AWG (5.27 mm²) to 20 AWG (0.52 mm²).

When using stranded wire, ensure that the strands of the wire are twisted together before inserting them into the terminal block.

4. Reassemble the horn to the rear enclosure using the four screws.

Figure 2 AC wiring diagram

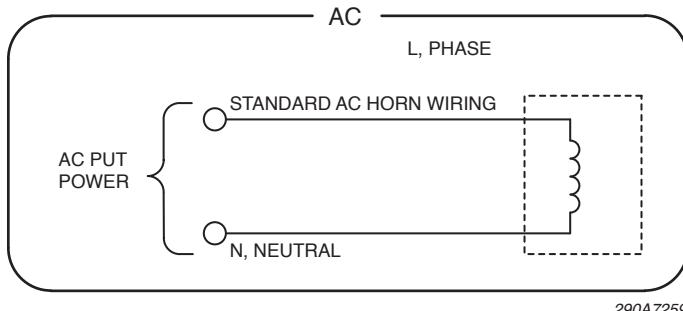
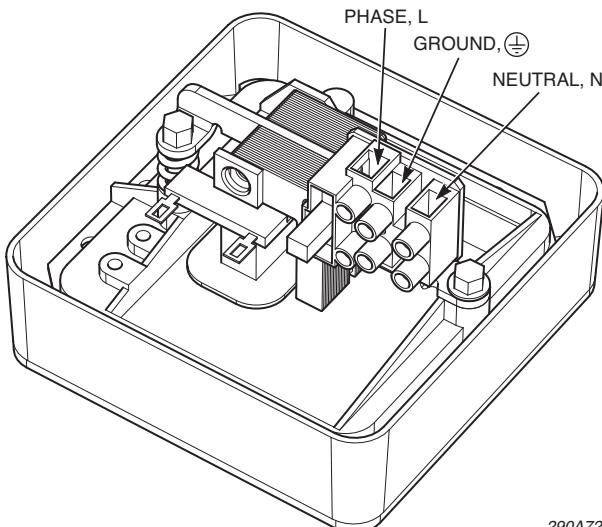


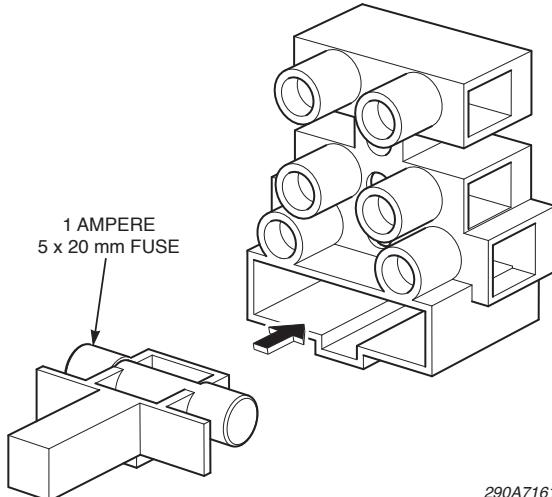
Figure 3 Terminal block



Changing the Fuse

To change the 1 A fuse, see Figure 4.

Figure 4 Fuse installed in terminal block



Getting Technical Support and Service

Products returned for repair require a Return Authorization form. To obtain repair service or technical assistance for the product, call Federal Signal at 708-534-4756 or 877-289-3246.

Returning the Product for Credit

Product returns for credit require a return authorization from your local distributor prior to returning the product to Federal Signal. Please contact your distributor for assistance.

A product is qualified to be returned for credit when the following conditions are met:

- Product is resalable and in the original cartons
- Product has not been previously installed
- Product is the current revision
- Product has not been previously repaired

Installation Instructions

- Product is a standard product
- Product is not a service part

All returns are subject to a re-stock fee.

Defective products that are returned within the warranty period will be repaired or replaced at Federal Signal's sole discretion. Defective products do not include those products with lamp failure.

Circumstances other than those listed above will be addressed on a case-by-case basis.