



ETH Series Horn

Installation & Maintenance Information

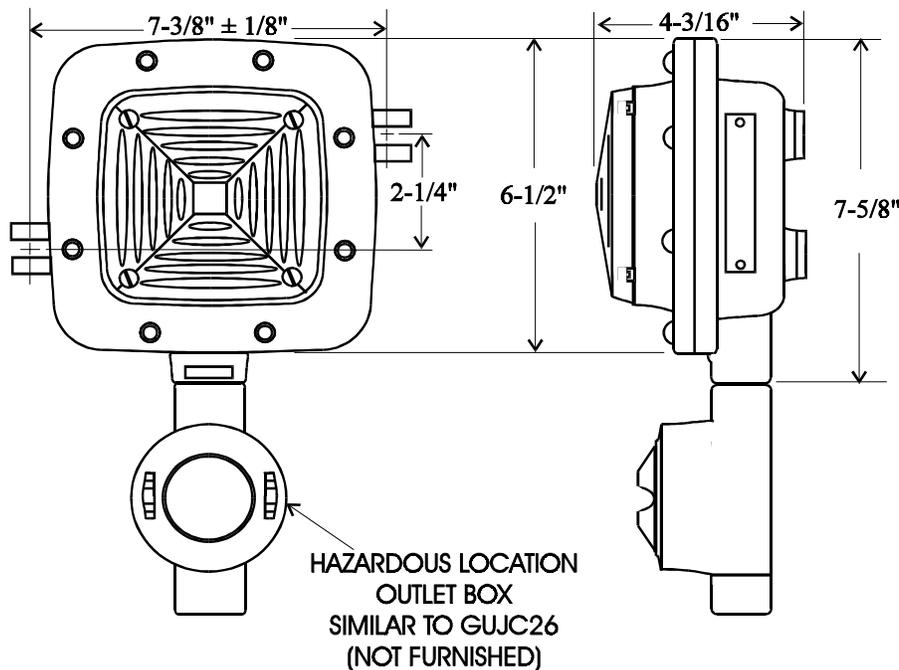
Application

The ETH explosionproof, factory sealed horn is a heavy-duty high decibel vibrating horn intended for use where a distinctive audible signal is required in a hazardous location. It is cUL listed and designed for use in Class I, Groups B, C and D, Class II, Groups E, F and G, Class III, Class I, Zone 1, Groups IIA and IIB plus Hydrogen hazardous locations. The horn is in a NEMA 4X rated enclosure. The ETH horn may be mounted to any solid surface.

A conduit seal must be installed immediately adjacent to conduit hub when installed in Group B locations.

ETH horns should be installed, inspected, maintained, and operated by qualified and competent personnel. Read entire instructions before starting installation of this product. Contact your Crouse-Hinds Sales Representative, Crouse-Hinds Customer Service or your Crouse-Hinds Distributor if you have any questions.

Dimensions



Installation

WARNING
To provide protection against fire or shock hazard, the electrical power must be OFF before and during installation and maintenance.

For power connections in a hazardous location, the following external parts will be required.

- 3/4 inch conduit of sufficient length to contain power source wires within hazardous location.
- One explosionproof outlet box suitable to the hazardous location. (Similar to GUJC26 outlet box).
- Two 3/4 - 14 National Pipe Taper (NPT) nipple connectors.

1. Fasten mounting feet as shown in DIMENSIONS and secure the ETH horn to solid surface using the furnished mounting brackets and hardware suitable to the mounting location. The hardware, 3/8" diameter fasteners and washers, is not furnished.
2. See illustration. Power source connections are made in the explosionproof outlet box. Remove outlet box cover.

CAUTION
Do not apply power to the unit until installation is completed and cover is secured.

3. Feed external power wires through the 3/4 inch conduit which is attached to the outlet box with one of the 3/4 - 14 NPT connectors.

4. Feed the ETH horn power connection wires through the other 3/4 - 14 NPT connector which connects the ETH horn to the outlet box.
5. Connect all wiring following your system wiring pattern in accordance with the National Electrical Code (NEC). Connect green ground lead to earth ground.

Maintenance



WARNING

Always disconnect primary power source before opening enclosure for inspection or service.

- ## WARNING

Assembly must be securely attached into a permanently grounded system in accordance with Article 250 of NEC.
6. Replace GUJC junction box cover, and tighten securely.
 7. Install approved sealing fitting when required by Section 501-5 and/or 502-5 of the NEC plus any other applicable codes. Hazardous location information specifying class and group listing is marked on the nameplate of the unit.
 8. Pour sealing compound into sealing fitting (where used) in accordance with instructions provided with the approved sealing fitting and sealing compound package label.

1. Frequent inspection should be made. A schedule for maintenance check should be determined by the environment and frequency of use. It is recommended that it should be at least once a year.
2. Perform visual, electrical, and mechanical checks on all components on a regular basis.
 - Visually check for undue heating evidenced by discoloration of wires or other components, damaged or worn parts, or leakage evidenced by water or corrosion in the interior.
 - Electrically check to make sure that all connections are clean and tight.
 - Mechanically check that all parts are properly assembled, and operating mechanisms move freely.
3. We recommend an Electrical Preventive Maintenance program as described in the National Fire Protection Association Bulletin NFPA 70B.

Specifications

Cat. No.	Voltage	Current
ETH2312-M4	240V AC	0.065A
ETH2313-M4	120V AC	0.13A
ETH2316-M4	24V AC	0.625A
ETH2416-M2	24V DC	0.16A

Ambient Temperature:

The UL Hazardous Locations Listing is "only for use under normal atmospheric conditions in an ambient temperature within the range of -25C (-13F) to +40C (+104F)"; and within these ambient temperatures, Edwards recommends +25F (-4C) and higher for its function as an audible signal appliance.



CAUTION

Clean both ground joint surfaces of body and cover before closing. Dirt or foreign material must not accumulate on flat ground joint surfaces. Surfaces must seat fully against each other to provide a proper explosionproof seal.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his or her intended use and assumes all risk and liability whatsoever in connection therewith.

P-047550-1639 OFFSET SPEC

INSTALLATION INSTRUCTIONS FOR ETH SERIES
HORN.

(1) 8 1/2" X 11" SHEET PRINTED BOTH SIDES.

FOLD TWO TIMES TO DIMENSIONS SHOWN IN
FOLD DETAIL WITH PART NUMBER ON THE OUT-
SIDE.

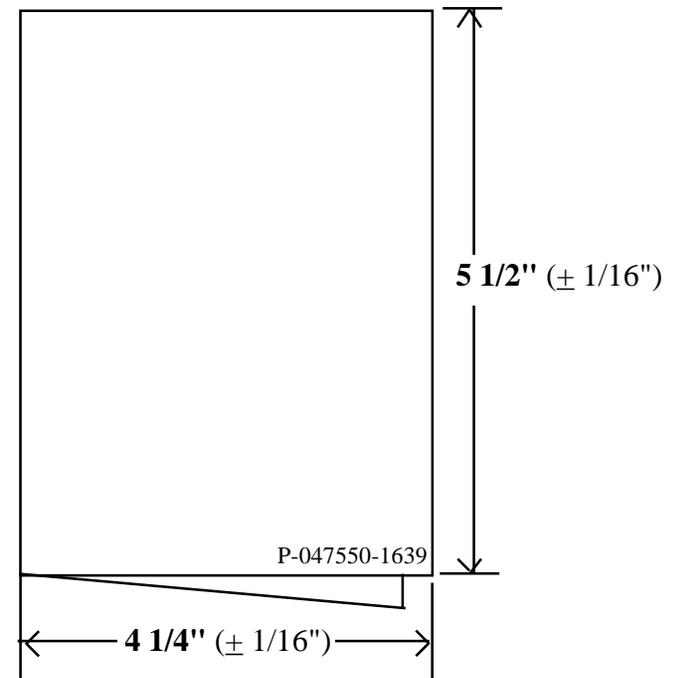
MATERIAL: STANDARD WHITE OFFSET STOCK

CHARACTERS: TO BE BLACK ON WHITE BACK-
GROUND

NOTE: MECHANICALS HAVE ALREADY BEEN
REDUCED TO ACTUAL SIZE.

RETURN MECHANICAL TO:
TECHNICAL WRITING
EDWARDS SIGNALING
90 FIELDSTONE COURT
CHESHIRE, CT 06410

ECN: 00-S1959
FILE: FCF159
ISSUE: 3
APPROVED: KRT



FOLD DETAIL REFERENCE ONLY