



GAI-TRONICS® CORPORATION
A HUBBELL COMPANY

30 Watt Horn Drivers

Model 13314-003 70-Volt

Model 13314-004 100-Volt

Confidentiality Notice

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Mounting Instructions

A typical installation of the Model 13314-003 or 13314-004 Driver, with associated horn and mounting assembly, is shown in Figure 1. The recommended mounting height for the driver is 9 feet (2.7 meters) from the floor. Refer to the following chart to verify that the horn is paired with the correct speaker mounting assembly.

Horn Series	Speaker Mounting Assembly
13302	411A
13304	411A
13305	411A
13306	414-002
13309	411A
13340	411A

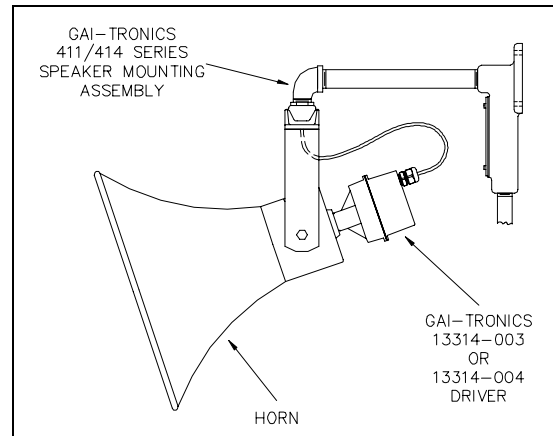


Figure 1. Typical Installation

Install the mounting assembly and the horn, then complete the following instructions to install the driver onto the horn. Reference the following chart to determine the appropriate gauge speaker cable.

Cable Options	Distance of Cable Run in Feet	
	70 V	100 V
18 AWG	6,250	8,900
16 AWG	9,900	14,000
14 AWG	15,800	22,500

1. Remove the three Phillips screws that hold the driver together, and pull the rear assembly away from the front assembly. See Figure 2. Use care to avoid damaging the gasket.
2. Disconnect the blue and gray wires off the front assembly by grasping the wire near the connector and pull them straight up from the post.

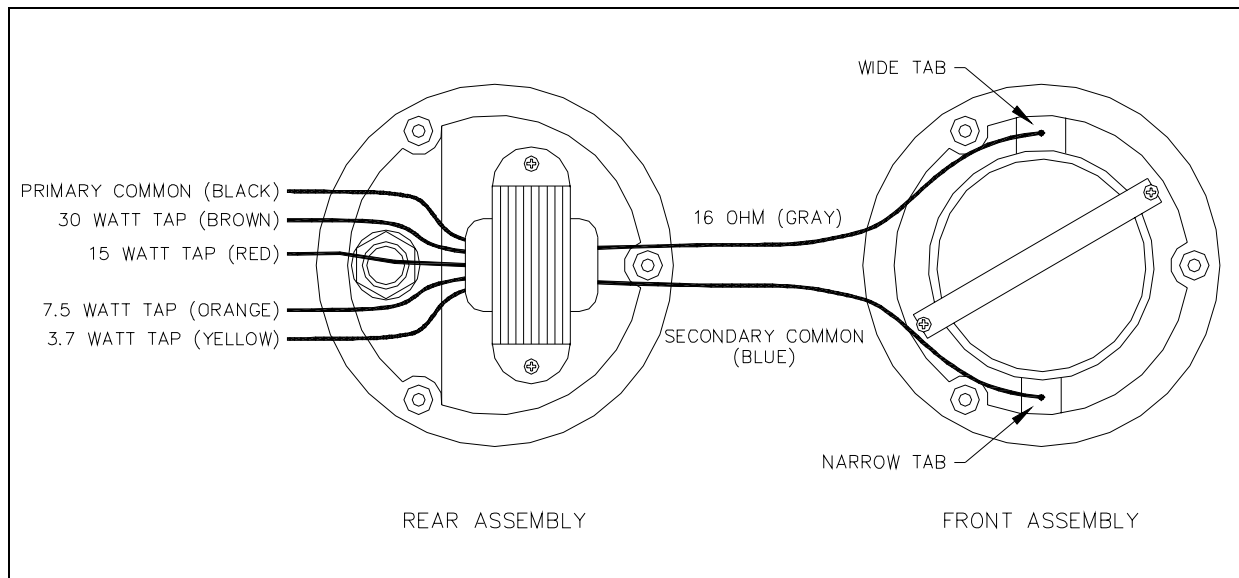


Figure 2. Driver Outline Diagram

3. Screw the front assembly onto the rear of the horn as shown in Figure 1.
4. Choose the wire associated with the tap that will be used (3.7, 7.5, 15, or 30 watts – see Figure 2 for color codes). Strip both the selected tap wire and the primary common wire (black) if necessary.
5. Strip both conductors of the speaker cable coming from the amplifier.
6. Pull the speaker cable through the bushing on the rear assembly. Be sure the conductors extend two to three inches into the assembly.
7. Tighten the bushing around the cable.
8. Use wire nuts or other approved connectors to splice the common from the speaker cable to the black primary common, and the hot from the speaker cable to the selected tap.
9. Be sure to insulate the other three taps. It is not recommended that these wires be cut in case of future changes. Carefully push all primary wires into the space in the rear enclosure.
10. Reconnect the secondary wires to the front assembly by snapping the connectors onto the posts. The blue wire must be connected to the post on the narrow tab and the gray wire must be connected to the post on the wide tab. See Figure 2.
11. After ensuring that the gasket is properly seated on the front assembly, align the rear assembly holes with the front assembly holes and replace the three screws.

Driver Specifications

Power handling:	30 W _{RMS} , 300–3000 Hz; pink noise 6 dB crest factor; ref. ANSI S4.26–1984
Frequency response:	300–4500 Hz
Input taps for 70/100V line:	3.7, 7.5, 15, and 30 watts
Sensitivity:	109 dB spl @ 1 watt, 1 meter; swept sine average with 13304 horn
Horn coupling:	Standard 1.375–18 UNEF threads
Housing	Black; glass and fiber reinforced polyester thermoplastic
Bushing:	Nylon body with neoprene sealing gland Accepts cable from 0.250 to 0.480 inches in diameter
Impedance:	Variable (transformer)
Shipping weight:	4.3 lbs.
Dimensions:	5.0 inches (127 mm) in diameter × 5.5 inches (140 mm) long
Approvals	UL Listed for Class I, Div. 2 Groups A, B, C, and D; Class II Div. 2 Groups F and G; Class III Div. 2
Weatherproof rating	Type 4X

Warranty

Equipment. GAI-Tronics warrants for a period of one (1) year from the date of shipment, that any GAI-Tronics equipment supplied hereunder shall be free of defects in material and workmanship, shall comply with the then-current product specifications and product literature, and if applicable, shall be fit for the purpose specified in the agreed-upon quotation or proposal document. If (a) Seller's goods prove to be defective in workmanship and/or material under normal and proper usage, or unfit for the purpose specified and agreed upon, and (b) Buyer's claim is made within the warranty period set forth above, Buyer may return such goods to GAI-Tronics' nearest depot repair facility, freight prepaid, at which time they will be repaired or replaced, at Seller's option, without charge to Buyer. Repair or replacement shall be Buyer's sole and exclusive remedy. The warranty period on any repaired or replacement equipment shall be the greater of the ninety (90) day repair warranty or one (1) year from the date the original equipment was shipped. In no event shall GAI-Tronics warranty obligations with respect to equipment exceed 100% of the total cost of the equipment supplied hereunder. Buyer may also be entitled to the manufacturer's warranty on any third-party goods supplied by GAI-Tronics hereunder. The applicability of any such third-party warranty will be determined by GAI-Tronics.

Services. Any services GAI-Tronics provides hereunder, whether directly or through subcontractors, shall be performed in accordance with the standard of care with which such services are normally provided in the industry. If the services fail to meet the applicable industry standard, GAI-Tronics will re-perform such services at no cost to buyer to correct said deficiency to Company's satisfaction provided any and all issues are identified prior to the demobilization of the Contractor's personnel from the work site. Re-performance of services shall be Buyer's sole and exclusive remedy, and in no event shall GAI-Tronics warranty obligations with respect to services exceed 100% of the total cost of the services provided hereunder.

Warranty Periods. Every claim by Buyer alleging a defect in the goods and/or services provided hereunder shall be deemed waived unless such claim is made in writing within the applicable warranty periods as set forth above. Provided, however, that if the defect complained of is latent and not discoverable within the above warranty periods, every claim arising on account of such latent defect shall be deemed waived unless it is made in writing within a reasonable time after such latent defect is or should have been discovered by Buyer.

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Return Policy

If the equipment requires service, contact your Regional Service Center for a return authorization number (RA#). Equipment should be shipped prepaid to GAI-Tronics with a return authorization number and a purchase order number. If the equipment is under warranty, repairs or a replacement will be made in accordance with the warranty policy set forth above. Please include a written explanation of all defects to assist our technicians in their troubleshooting efforts.

Call 800-492-1212 (inside the USA) or 610-777-1374 (outside the USA) for help identifying the Regional Service Center closest to you.