1824S

Heavy Duty Driver



COMMERCIAL

General Product Description

The 1824S is a heavy-duty driver designed for use in fixed or mobile siren warning systems incorporating PA horns.

The driver uses a rugged, weather-resistant phenolic diaphragm, 2-inch diameter voice coil with specially insulated copper wire, and a strontium ferrite magnet structure.

The entire voice coil and diaphragm assembly is held to absolute concentricity by use of specialized techniques in construction.

Automotive-type terminals are used, and mating connectors provided for making electrical connection to the 1824S.

Architects' and Engineers' Specifications

The loudspeaker shall be of the compression-driver type having a rugged phenolic diaphragm and a high-temperature rated 2.0-inch diameter voice coil.

The loudspeaker shall exhibit essentially flat power response from 300 to 3,000 Hz with a smoothly rolled-off response beyond. Its sensitivity, when mounted on a University Sound Cobreflex III horn, will be 107 dB (1 W/1 m) with a 300 to 3,000 Hz pink noise signal applied.

The loudspeaker shall be capable of handling a 75 watt, 500 to 5,000 Hz pink noise signal with a 6 dB crest factor for a period of eight hours.



The loudspeaker shall have a diameter of 13.2 cm (5.2 in.) and a depth of 7.9 cm (3.1 in.). It shall have a 2.2 cm (0.9 in.) throat opening with a 1 3/8 inch-18 thread for mounting.

The loudspeaker shall be the 1824S which weighs no more than 2.9 kg (6.4 lb) and has a nominal impedance of 8 ohms.

Specifications: -

Frequency Response: Power Handling, 8 Hours, 6 dB Crest Factor: Impedance, Nominal: 8 ohms Sound Pressure Level at 1 Meter, 1 Watt Input Averaged, Pink Noise Band-Limited from 300-3,000 Hz: 107 dB (Cobreflex III horn) Voice Coil Diameter: Magnet Weight: 0.6 kg (1.4 lb) Magnet Material:

Construction:

Diecast front cover with thermal black finish

Mechanical Construction of Driver:

Cobreflex IIB Cobreflex III

1-3/8"-18 x 7/8"- long thread for direct connection to PA or reentrant horns.

Dimensions,

Diameter:	13.2 cm (5.2 in.)
	7.9 cm (3.1 in.)
Net Weight:	
	2.9 kg (6.4 lb)
Shipping Weight:	3 \ ,
	3.2 kg (7.0 lb)
Recommended Horns:	

Installation

Remove the plastic cap from the threaded throat of the driver and screw driver into the horn until firmly seated.

Install the horn/driver assembly in intended location, referring to the instructions provided with horn.

A rear driver bolt is provided for attachment. Do not use a longer size than the one supplied.

Attach mating terminals to lead wire and connect to driver terminals or solder lead wire directly to the driver terminals.

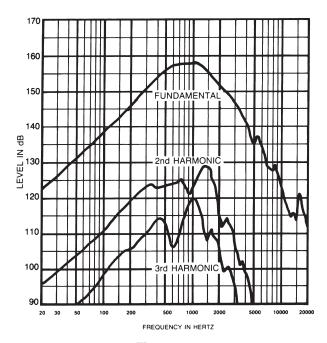


Figure 1.

Distortion Response - Plane Wave Tube (1 inch)

(7.5 watt input)

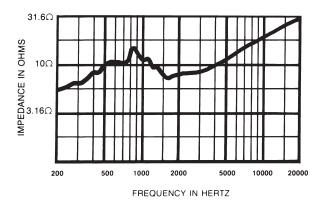


Figure 3.
Impedance Response - Plane Wave Tube
(1 inch)

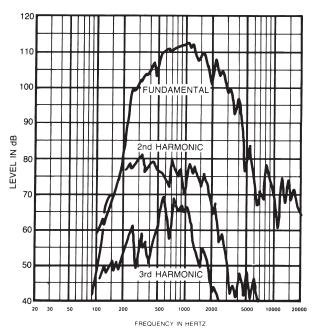


Figure 2.
Distortion Response - Cobreflex III Horn
(1 watt / 1 meter)

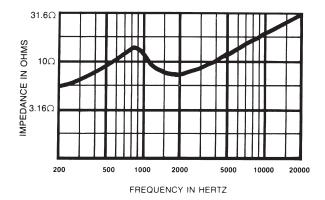


Figure 4.
Impedance Response - Cobreflex III Horn

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 705 Progress Avenue, Unit 46,Scarbforough, Ontario, Canada, M1H2XI,Phone: 416-431-4978, 800-881-1685, FAX: 416-431-4588

 Switzerland
 Kellenshrasses 11, CH-2563 19-85ACH, Switzerland, Phone: 4176-233-16833, FAX: 41762-331-1221

 Germany
 Hirschberger Ring 45, D94315, Straubing, Germany, Phone: 49 9421-706 392, FAX: 49 9421-706 287

 France
 Parc de Courcerin, Alle Lech Walesa, Lognes, 77185 Marne La Vallee, France, Phone: 33/1-6480-0939, FAX: 33/1-6480-4538

 Hong Kong
 Unit 23, Block C, Slough Business Park, Slough Avenue, Silverwater, N.S.W. 2128, Australia, Phone: 61/2-9648-5455

 Hong Kong
 Unit E & F, 21/F, Luk Hop Industrial Bidg., a Luk Hop St., San PO Kong, Kowloon, Hong Kong, Phone: 852-2351-3329

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For customer orders, contact the Customer Service department at 800/392-3497 Fax: 800/955-6831

For warranty repair or service information, contact the Service Repair department at 800/685-2606

For technical assistance, contact Technical Support at 1(866)78 AUDIO Please refer to the Engineering Data Sheet for warranty information.

Specifications subject to change without notice.