

Sound Logic

“For many years we have standardized on Dukane sound and communications products throughout our campus.

Working with a single manufacturer like Edwards for these products, as well as for all of our Fire Alarm systems and devices is very important to us.”



Product Index

When it comes to sound and communications technology, the Dukane brand has long been regarded as a leader. Our products are engineered for high performance and flawless operation. Now for the first time, the full line of Dukane over-the-counter products is available through Authorized Edwards Signaling Distributors.

Sound and Communications



Intercoms 8-4



Speakers 8-6



Phone Relays 8-9



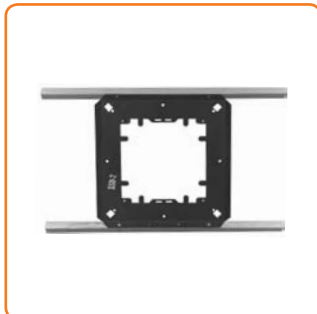
Phone Signals 8-15



Speakers and Speaker Assemblies 8-21



Amplifiers and Sound Accessories 8-28



Baffles, Back Boxes and Transformers 8-43

Sound and Communications Table of Contents

Description	Page	Description	Page
Intercoms		Amplifiers and Sound Accessories	
Industrial5570 Series	8-4	Audio Power Amplifier, 125 Watts Model 1B3125	8-28
Speakers		Audio Power Amplifier, 250 Watts Model 1B3250	8-29
Re-Entrant Millennium Class	8-6	Audio Power Amplifier Model 1A4060, 1A4125, 1A4250	8-30
Notification Appliances Millennium Class	8-8	Multitone Generator Model 15A266B	8-32
Phone Relays		Power Supplies Models 17A365, 17A437	8-33
Surface Mount - Indoor B93 Class	8-9	Microphone 7A766	8-34
Surface Mount - Outdoor . . . B93 Class	8-11	Paging Monitor and Relay Equipment Model 9A1687, 9A1685B, 9A1535	8-35
Electronic B93 Class	8-13	AM-FM Tuner/CD and MP3 Player with Mixer/PreAmp RCD350P	8-37
Phone Signals		Preamps and Preamp Mixers 2A37, 2A40, 2A45, 2A68A, 2A96A	8-39
Remote Phone Bell B93 Class	8-15	Graphic Equalizer 3A242A	8-41
Remote Phone Horn B93 Class	8-17	Universal Selector Panel . . . Model 4A1445	8-42
Remote Phone Strobe B93 Class	8-19	Baffles, Back Boxes and Transformers	
Remote Phone Horn/Strobe B93 Class	8-20	Speaker Baffles 6A328, 6A338, 6A342B, 6A530B, 6A603, 6A625A, 6A630, 6A633, 6A634, 6A635, 6A636, 6A650, 6L100	8-43
Speakers and Speaker Assemblies		Speaker Backbox 677-67	8-46
Speakers 5A Series	8-21	Speaker Transformers 710-3090, 710-3092	8-47
Re-Entrant Horn 5A30 Series	8-22		
Speaker/Transformer Assembly 5A543 Series	8-23		
Coaxial Loudspeaker 5A700 Series	8-24		
High Plenum Sound Masking Speaker Assembly 6A530B	8-25		
Low Plenum Sound Masking Speaker Assembly 6A603	8-26		
Speaker Baffle Assembly . . . 6A650	8-27		

Intercoms

Industrial

5570 Series

The Edwards 5570M intercom is a heavy-duty UL and cUL listed signal appliance designed for use in industrial and hazardous location applications.

The 5570M can be configured by means of a slide switch. The AC line has a 1/2 amp 250-volt type GMC fuse. Operating selections include balanced or unbalanced line operation and modes of Master or Satellite can be selected.

The unit features a transformer isolated audio input and a choice of one of four selectable alert tones. For indoor applications where ambient noise is high, a hand-held noise cancelling microphone kit is available.

Features and Specifications

- Suitable for use in indoor and outdoor hazardous locations
- Balanced or unbalanced line operation
- Master or satellite modes
- Four selectable alert tones
- Marine rated
- UL Class 1, Div. 2, Groups A, B, C and D
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)



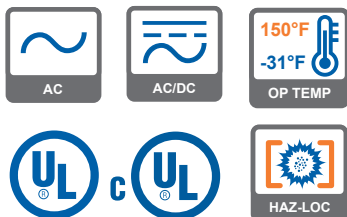
Ordering Information

Description	Cat. No.	Operating Voltage ¹	Current		Frequency Response (-6dB)	Input Impedance	Speaker Rating	Speaker Impedance
			Standby	Tone On				
Hazardous Location Intercoms	5570M-AQ	24V AC/DC	0.321/0.111 A	1.29/0.64 A	150 Hz to 12 KHz	15K Ohms	30 Watts	16 Ohms
	5570M-NR5	120V AC/240V AC	0.075/0.037 A	0.188/0.073 A	150 Hz to 12 KHz	15K Ohms	30 Watts	16 Ohms

¹AC voltage frequency is 50/60 Hz

Accessories

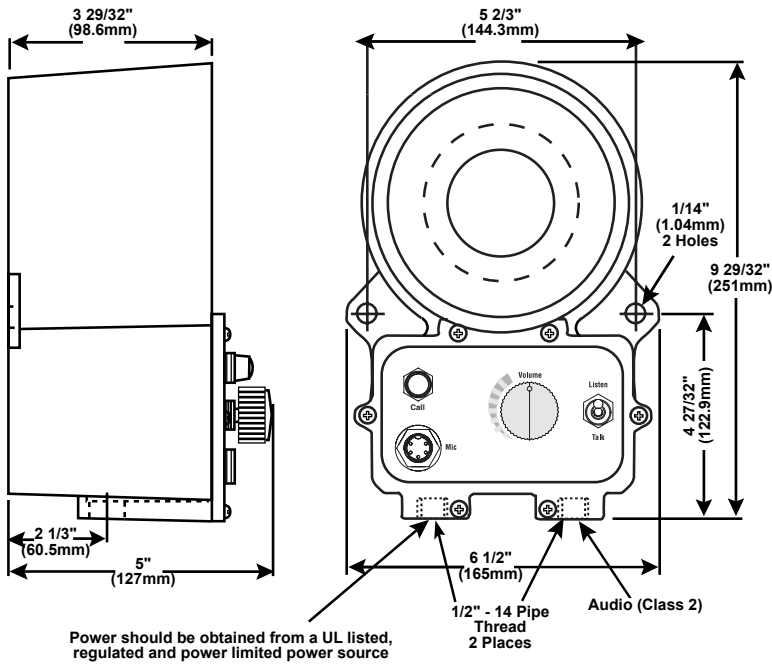
Description	Cat. No.
Hand-held Noise Cancelling Microphone Kit	5570MIC
Microphone Outdoor Application Kit	5542WPK



Intercoms Industrial 5570 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5570M-AQ	12.13	12.50
5570M-NR5	12.13	12.50
5570MIC	1.00	1.25
5542WPK	0.42	0.70



Speakers

Re-Entrant

Millennium Class

The 5552 speaker is a high-efficiency, double re-entrant loudspeaker that delivers 15-watts of continuous power. It is suitable for use in fire alarm and life safety applications and is UL 1480 listed as a fire protective signaling speaker.

The 5552 speaker includes a versatile, two-way, 25/70.7 V line transformer that meets a variety of distributed system needs. The transformer is adjustable by means of a convenient seven-position, watts/impedance selection switch that is screwdriver adjustable and includes a protective cover with built-in cable strain relief.

The 5552 speaker includes a mounting bracket that, with a single adjustment, provides positioning in both the vertical and horizontal planes. It also allows the 5552 to be installed on conventional surfaces or strap-mounted on I-beams or pillars.

Features and Specifications

- High intelligibility for voice and tone signaling
- 120dB at 1 meter/110dB at 10 ft.
- Suitable for installation on supervised circuits
- Suitable for use in indoor and outdoor applications
- Available in gray or red finish
- Epoxy-coated metal and ABS plastic components
- Includes 25/70.7 transformer for line applications
- Sensitivity:
 - 120dB at 15 watts (peak)/1 meter
 - 116dB at 15 watts/1 meter (avg.)
 - 106dB at 1 watt/1 meter (avg.) 500-600 Hz
- 1/2" conduit connection
- 70° dispersion
- Adjustable bracket for precise positioning
- Operating temperature range: -30°F to 150°F (-35°C to 66°C)

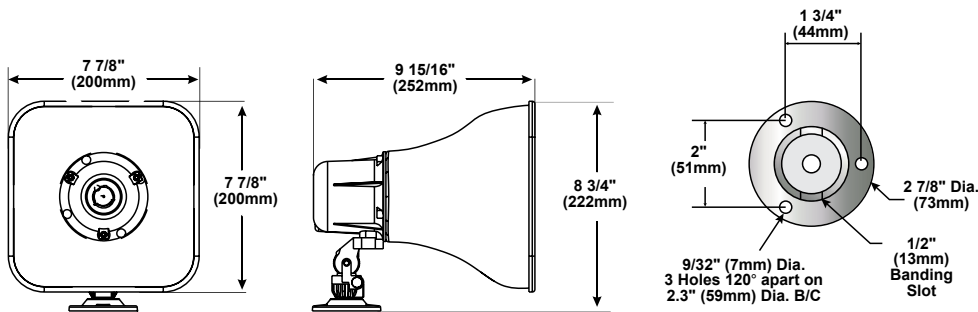


Ordering Information

Description	Cat. No.	Line Voltage	Power	Power Taps	RMS Frequency Response	Capacitor Rating	dB at 1m/10ft.	Color
Re-entrant Speakers	5552-15W-R	25/70.7	15 W	1, 2, 3.8, 7.5, 15 @ 70.7V	400 - 14,000 Hz	5 mfd	120/110	Red
	5552-15W-G	25/70.7	15 W	1, 2, 3.8, 7.5, 15 @ 70.7V	400 - 14,000 Hz	5 mfd	120/110	Gray

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5552-15W-R	3.81	4.63
5552-15W-G	3.81	4.63

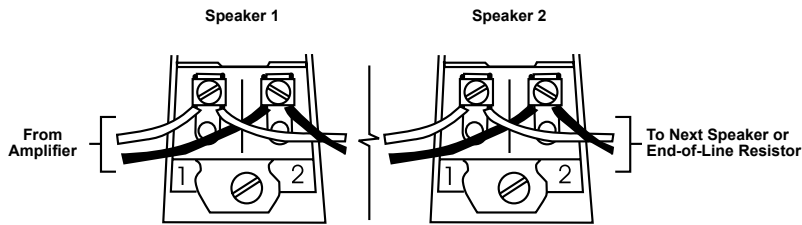


Speakers

Re-Entrant

Millennium Class

Wiring

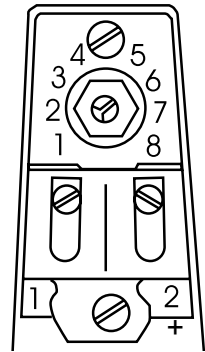


Configuration

Switch Position	Impedance	25V Line	dB at 1m/10 ft. ¹	70V Line	dB at 1m/10 ft. ¹
1	5.0 K	—	—	0.9 W	103/93
2	2.5 K	—	—	1.8 W	106/96
3	1.3 K	0.48 W	100/90	3.8 W	108/98
4	666	0.94 W	103/93	7.5 W	111/101
5	333	1.8 W	106/96	15.0 W	113/103
6	89	7.5 W	111/101	Do Not Use on 70 V	
7	45	15.0 W	113/103		

¹UL 3dB increment rating

NOTE: Terminal 2 is the positive terminal



Speakers

Notification Appliances

Millennium Class



The Edwards 5553 Series Speakers are UL Listed, Class 1, Div. 2 hazardous location audible signaling appliances for use in conjunction with compatible control equipment. They produce audible emergency and protective signals as well as voice messages. They accept system audio input levels of 25 or 70 volts RMS.

The Edwards 5553 Series comply with the requirements of UL Standard 1480, Fire Protective Signaling Speakers. The speakers are suitable for outdoor use with a UL1480 wet locations rated enclosure. They include a supervisory capacitor and are suitable for installation in systems employing supervised circuitry.

Speaker direction is adjustable and the output wattage is adjustable via an internal rotary switch.

Features and Specifications

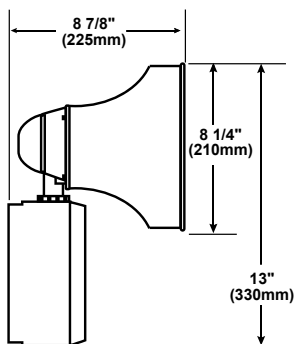
- Suitable for use in outdoor and hazardous locations
- Speaker swivels
- Adjustable up to 15 watts maximum
- 113 dB at 1 meter/103 dB at 10 ft.
- Frequency range 400Hz to 4000Hz
- UL listed for Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III, Div. 1 and 2
- Operating temperature range: -40°F to 104°F (-40°C to 40°C)

Ordering Information

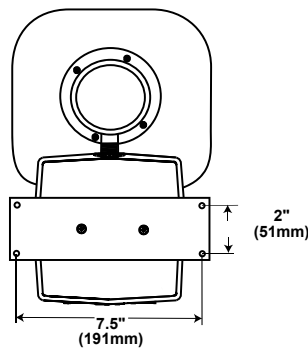
Description	Cat. No.	dB at 1m/10ft.	Color
Hazardous Location Speakers	5553-25/70-G	113/103	Gray
	5553-25/70-R	113/103	Red

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5553-25/70-G	4.20	9.00
5553-25/70-R	4.20	9.00



Side



Back



113 dB



OP TEMP



Phone Relays

Surface Mount - Indoor

B93 Class

The Edwards B93 Class electro-mechanical, pressed steel, telcode relays are designed to activate horns, buzzers and bells. The unit's windings are rated in ohms rather than volts. Wire size and number of turns vary with resistance requirements.

The B-8316 Series relay is supplied with a capacitor; the B-8315 Series is not.

Unit mounts to any flat surface using the mounting holes on 3 3/8" (86mm) centers. 1/2" (13mm) and 3/4" (19mm) knockouts are provided for input and output wiring.

Relays operating on AC ringing voltage and used on common battery circuits require capacitors. Relays operating on DC ringing voltages do not require capacitors unless energized by a common battery.

Features and Specifications

- Long-life tungsten contacts
- Gray finish
- High grade copper coils
- Hinged cover
- Normally open circuit relay
- Two shading coils prevent armature chatter
- Designed for POTS (plain old telephone service) operation
- FCC approval (B-8316 Series only)



Ordering Information

Description	Cat. No.	DC Coil Resistance (ohms)	Contact Rating	Without Capacitor	
				With Capacitor VAC	VAC VDC
B93 Class Relay, Surface Mount - Indoor	B-8315-P-1000 ¹	1000	0.8A @ 110V AC	100-115	105-115 18
	B-8316-P-1000 ²	1000	0.8A @ 110V AC	100-115	— —
	B-8316-P-2500 ²	2500	0.8A @ 110V AC	200-230	— —
	B-8316-P-3000 ²	3000	0.8A @ 110V AC	220-277	— —

¹Supplied without capacitor. If one is required, order the B-8325 one micro farad, 400V capacitor with bracket.

²Supplied with 1 micro farad @ 400V capacitor

Accessories

Description	Cat. No.
Bracket with 1µF capacitor	B-8325



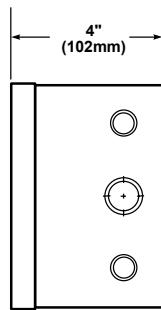
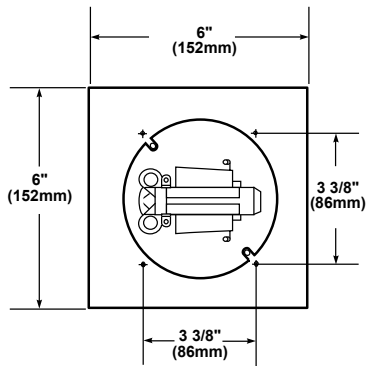
Phone Relays

Surface Mount - Indoor

B93 Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-8315-P-1000	4.29	4.56
B-8316-P-1000	4.29	4.56
B-8316-P-2500	4.29	4.56
B-8316-P-3000	4.29	4.56



Phone Relays

Surface Mount - Outdoor

B93 Class



The Edwards B93 Class, electro-mechanical telcode relays are designed to activate horns, buzzers and bells. The unit's windings are rated in ohms rather than volts. Wire size and number of turns vary with resistance requirements.

The B-8323 Series relay is supplied with a capacitor; the B-8322 Series is not.

Unit mounts to any flat surface using the mounting lugs on 6 3/4" (171mm) centers. Use 1/2" (13mm) conduit for input and output wiring.

Relays operating on AC ringing voltage and used on common battery circuits require capacitors. Relays operating on DC ringing voltages do not require capacitors unless energized by a common battery.

Features and Specifications

- Suitable for outdoor applications
- Long-life tungsten contacts
- Gray finish
- High grade copper coils
- Cast aluminum back box and cover
- Normally open circuit relay
- Two shading coils prevent armature chatter
- Designed for POTS (plain old telephone service) operation
- FCC approval (B-8323 Series only)

Ordering Information

Description	Cat. No.	DC Coil Resistance (ohms)	Contact Rating	With Capacitor VAC	Without Capacitor	
					VAC	VDC
B93 Class Relay, Surface Mount - Outdoor	B-8322-P-1000 ¹	1000	0.8A @ 110V AC	100-115	105-115	18
	B-8323-P-1000 ²	1000	0.8A @ 110V AC	100-115	—	—
	B-8323-P-1600 ²	1600	0.8A @ 110V AC	200-230	—	—
	B-8323-P-3000 ²	3000	0.8A @ 110V AC	220-277	—	—

¹Supplied without capacitor. If one is required, order the B-8325 one micro farad, 400V capacitor with bracket.

²Supplied with 1 micro farad @ 400V capacitor

Accessories

Description	Cat. No.
Bracket with 1µF capacitor	B-8325



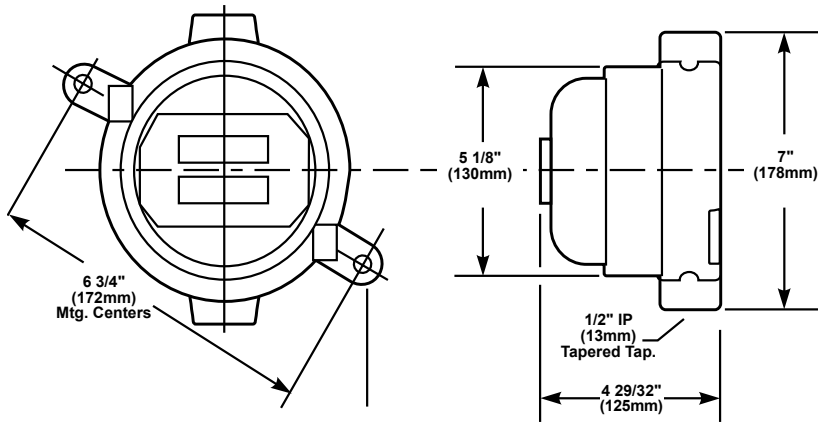
Phone Relays

Surface Mount - Outdoor

B93 Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-8322-P-1000	3.82	4.14
B-8323-P-1000	3.82	4.14
B-8323-P-1600	3.82	4.14
B-8323-P-3000	3.82	4.14



Phone Relays

Electronic

B93 Class



The Edwards B-ER-2000 electronic telcode relay is designed to activate remote extension signals such as horns, bells, strobes, or similar devices. The relay is activated by the line ringing voltage of the telephone; operation of the connected signal matches the telephone ringing cycle. The unit is designed for indoor use only.

The unit mounts to any flat surface using the supplied hardware. All telephone, power input, and signal output connections are made internal to the unit.

Features and Specifications

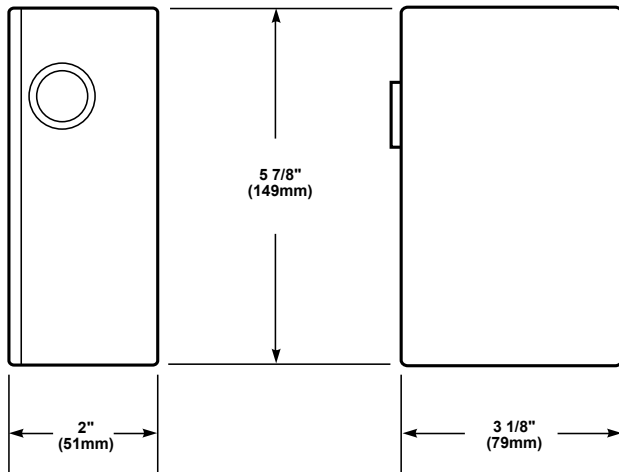
- Hardwired unit
- Suitable for use in indoor applications
- AC or DC activation voltage
- Suitable for use in indoor applications
- Injected molded enclosure
- Strain relief grommets on wiring entrances

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	Ringing Frequency	REN Number	Contact Rating
Electronic Relay	B-ER-2000	10-250V AC	16 to 70 Hz	1.5B @ >50V	5 amps @ 120V AC
		10-150V DC		3.4B @ <50V	

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-ER-2000	0.25	0.56



Phone Relays

Electronic

B93 Class

The Edwards B-ERW-2100 electronic telcode relay is designed to activate remote extension signals such as horns, bells, strobes, or similar devices. The relay is activated by the line ringing voltage of the telephone; operation of the connected signal matches the telephone ringing cycle. The unit is suitable for outdoor use.

Unit mounts to any flat surface using the supplied hardware. Use 1/2" (13mm) conduit for input and output wiring. All telephone, power input and signal output connections are made inside the unit.

Features and Specifications

- Hardwired terminations
- Suitable for use in outdoor applications
- AC or DC activation voltage

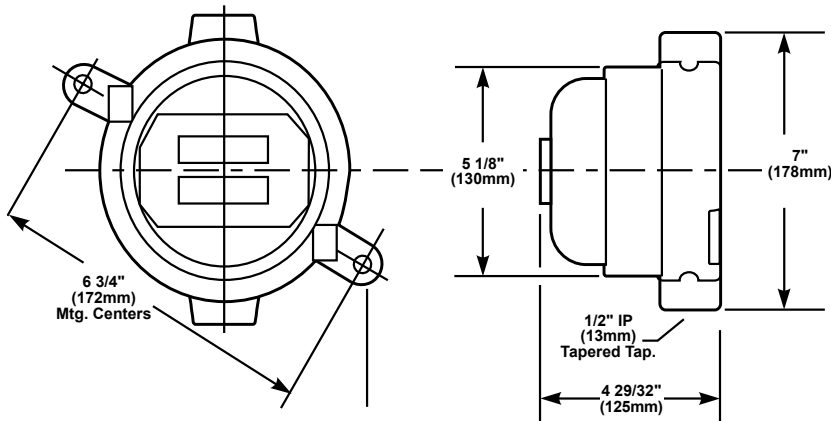


Ordering Information

Description	Cat. No.	Telephone Activation Voltage	Ringing Frequency	REN Number	Contact Rating
Electronic Relay	B-ERW-2100	10-250V AC	16 to 70 Hz	1.5B @ >50V	5 amps @ 120V AC
		10-150V DC		3.4B @ <50V	

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-ERW-2100	2.98	3.21



Phone Signals

Remote Phone Bell

B93 Class



The Edwards B-KBH-5040-N5 phone bell provides remote indication of telephone operation. The unit is powered by 120V 60 Hz and does not draw current on the phone circuit.

The unit is activated by a solid state, voltage sensing relay and responds to a 16-70 Hz ringing frequency. Operation of the unit matches the ringing cycle of the telephone.

Installs with three screws using the three external mounting lugs.

Features and Specifications

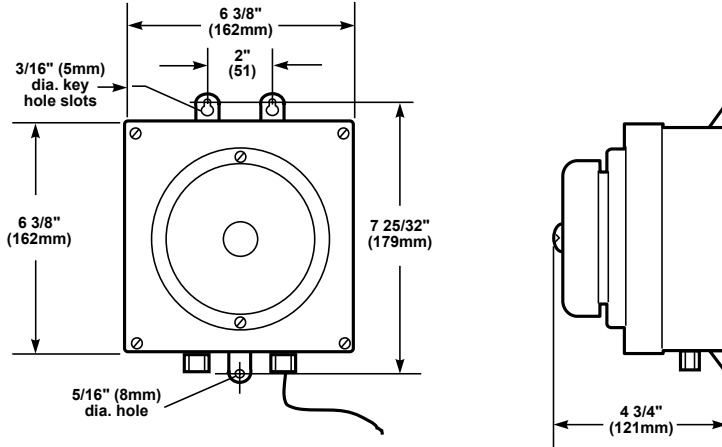
- Suitable for use in indoor applications
- Completely self-contained
- Steel gong
- Solid state relay
- Strain relief connectors for telephone line and 120V power cord
- Designed for POTS (plain old telephone service) operation
- AC or DC activation
- 6 foot (1.83m) power cord
- Polycarbonate injection molded housing

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	REN Number	dB at 1m/10ft.	Gong Size
Remote Phone Bell	B-KBH-5040-N5	10-250V AC @ 10-70 Hz	1.5B @ > 50V	98/88	4" (102mm)
		10-150V DC	3.4B @ < 50V		

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KBH-5040-N5	3.46	4.02



Phone Signals

Remote Phone Bell

B93 Class



The Edwards B-KBP-5060-N5 phone bell provides remote indication of telephone operation. The unit connects to a 120V 60 Hz supply.

The unit operates on 10-250V AC ringing voltage or 10-150V DC key voltage. Operation of the unit matches the ringing cycle of the telephone.

Bell hinges to the die cast back box housing for easy plug-in installation. Conduit is connected to the unit using the 3/4" (19mm) taps.

Features and Specifications

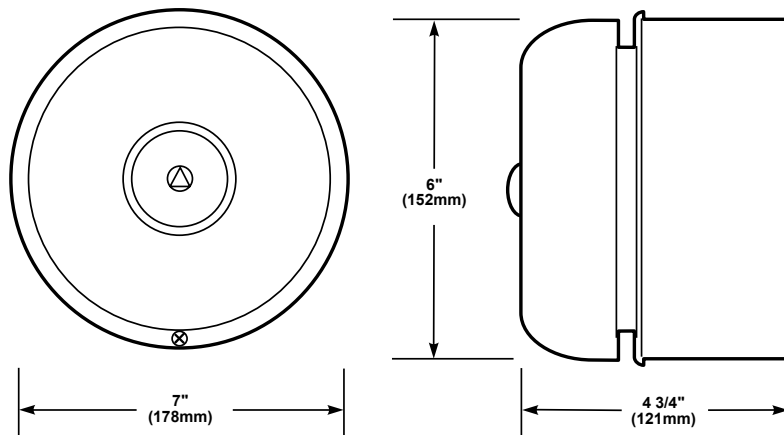
- Suitable for use in indoor and outdoor applications
- Solid state relay
- Completely self contained and gasket sealed
- Designed for POTS (plain old telephone service) operation
- 6" (152mm) chrome plated steel gong
- Low current draw

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	REN Number	dB at 1m/10ft.	Gong Size
Remote Phone Bell	B-KBP-5060-N5	10-250V AC	1.5B @ > 50V	102/92	6" (152mm)
		10-150V DC	3.4B @ < 50V		

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KBP-5060-N5	4.00	4.38



Phone Signals

Remote Phone Horn

B93 Class



The Edwards B-KHP-8010-N5 phone horn provides remote indication of telephone operation. The unit is powered by 120V 60 Hz and does not draw current on the phone circuit.

The unit is activated by a solid state, voltage sensing relay and responds to a 16-70 Hz ringing frequency. Operation of the unit matches the ringing cycle of the telephone.

Installs with three screws using the three external mounting lugs.

Features and Specifications

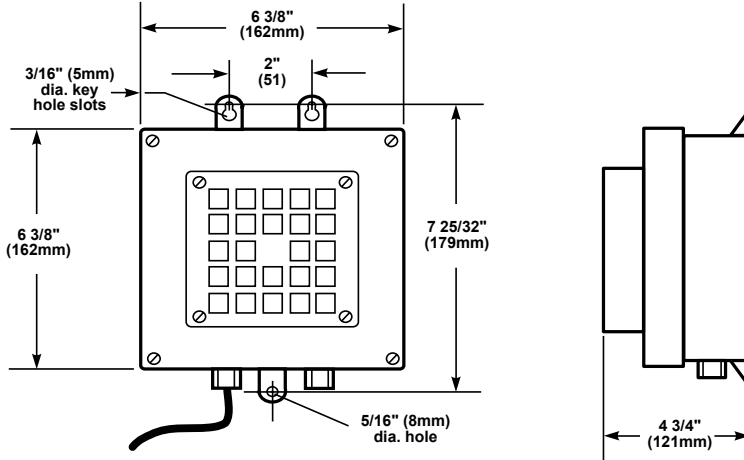
- Suitable for use in indoor applications
- Completely self-contained
- Polycarbonate injection molded housing
- Solid state relay
- Strain relief connectors for telephone line and 120V power cord
- Designed for POTS (plain old telephone service) operation
- AC or DC activation
- 6 foot (1.83m) power cord

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	REN Number	dB at 1m/10ft.
Remote Phone Horn	B-KHP-8010-N5	10-250V AC @ 10-70 Hz	1.5B @ > 50V	114/104
		10-150V DC	3.4B @ < 50V	

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KHP-8010-N5	2.66	3.11



Phone Signals

Remote Phone Horn

B93 Class

The Edwards B-KHS-1000-PP remote line powered phone horn operates on standard AC ringing voltage to provide remote audible indication of a ringing telephone. The unit has an injected molded housing and cover for security.

The unit matches the ringing cycle of the telephone.

The horn easily installs to the telephone using a modular telephone jack. The cord and jack are not supplied.

Features and Specifications

- Solid state circuitry
- Suitable for use in indoor applications
- Designed for POTS (plain old telephone service) operation
- Piezo horn - warble tone output; volume adjustable

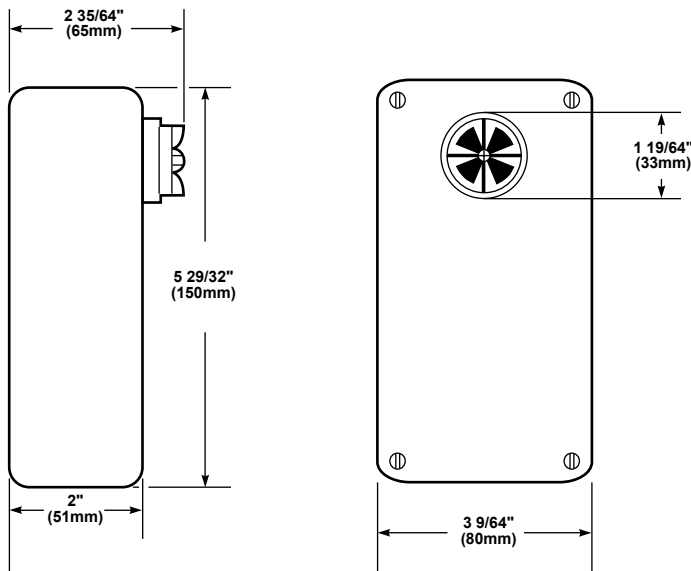


Ordering Information

Description	Cat. No.	Telephone Activation Voltage	Ringing Frequency	REN Number	dB at 1m/10ft.
Remote Phone Horn	B-KHS-1000-PP	85-115V AC	16 to 70 Hz	3.7B	98/88

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KHS-1000-PP	0.24	0.60



Phone Signals

Remote Phone Strobe

B93 Class



The Edwards B-KHD-1000-PP remote line powered phone strobe operates on standard AC ringing voltage to provide remote visual indication of a ringing telephone. The unit has an injected molded housing and cover for security.

The unit matches the ringing cycle of the telephone.

The strobe easily installs to the telephone using a modular telephone jack. The cord and jack are not supplied.

Features and Specifications

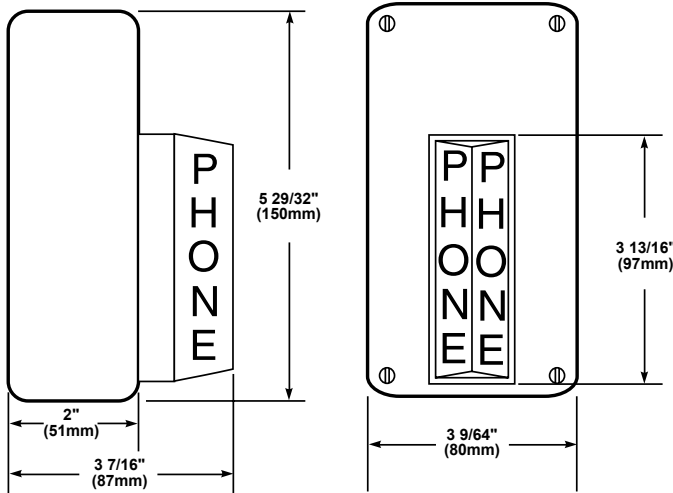
- Xenon strobe lamp
- Suitable for use in indoor applications
- Designed for POTS (plain old telephone service) operation
- Polycarbonate white translucent lens with black lettering
- Solid state circuitry

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	Ringing Frequency	REN Number	Strobe
Remote Phone Strobe	B-KHD-1000-PP	85-115V AC	16 to 70 Hz	3.7B	3-7 flashes per cycle

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KHD-1000-PP	0.45	0.60



Phone Signals

Remote Phone Horn/Strobe

B93 Class



The Edwards B-KHE-1000-PP remote line powered phone horn/strobe operates on standard AC ringing voltage to provide remote audible and visual indication of a ringing telephone. The unit has an injected molded housing and cover for security. The unit matches the ringing cycle of the telephone. The horn/strobe easily installs to the telephone using a modular telephone jack. Cord and jack are not supplied.

Features and Specifications

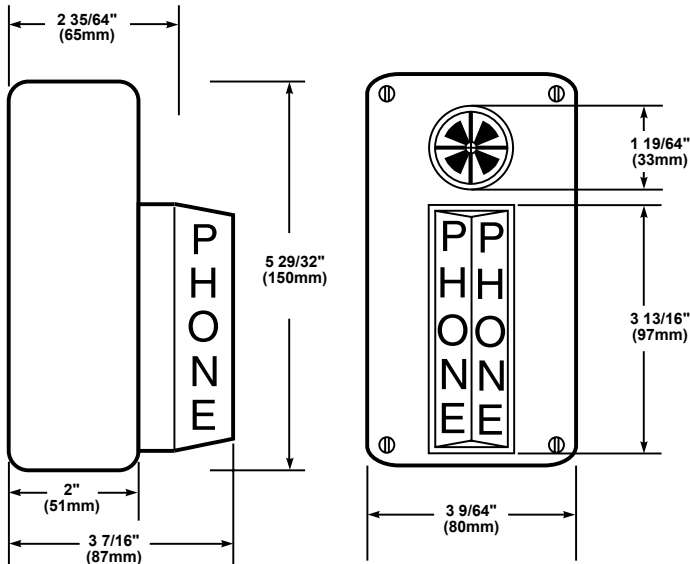
- Xenon strobe lamp
- Suitable for use in indoor applications
- Designed for POTS (plain old telephone service) operation
- Polycarbonate white translucent lens with black lettering
- Solid state circuitry
- Piezo horn - warble tone output; volume adjustable

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	Ringing Frequency	REN Number	Strobe	dB at 1m/10ft.
Remote Phone/Horn Strobe	B-KHE-1000-PP	85-115V AC	16 to 70 Hz	3.7B	3-7 flashes per cycle	98/88

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KHE-1000-PP	0.52	0.68



Speakers and Speaker Assemblies

Speakers

5A Series

The 5A531 Loudspeaker is well suited for classrooms, offices, meeting rooms, paging and music systems, and most applications requiring a number of eight-inch loudspeakers. This model has a mounted transformer matching 25-volt lines and is tapped at ½ watts of power prior to shipment.

The 5A606 and 5A607 Speaker Assemblies are designed for use in small area music distribution, paging, and intercom systems. Model 5A607 features extended high frequency response, made possible by an additional cone.

Model 5A451 Loudspeaker is a dual voice-coil type designed to work with the 12A957

Emergency Audio Communication System.

The second voice coil is provided specifically for that system's electronic supervision feature. The 12A957's trouble detection alarm will be triggered if either physical or electrical damage is done to the speakers.

Features and Specifications

5A531

- 8-inch loudspeaker and assembly with zinc-plated finish
- Efficient magnet structure
- Preassembled with transformer
- Standard EIA mounting dimensions

5A606

- Efficient magnetic structure
- Built for long and continuous use
- Cadmium-plated finish

5A607

- Low mounting profile
- Efficient magnet structure
- Additional cone for extended high frequency response
- Preassembled with transformer
- Standard EIA mounting dimensions
- Cadmium-plated finish

5A451

- Dual voice-coil 8" loudspeaker
- Low mounting profile
- Efficient magnetic structure
- Standard EIA mounting dimensions
- Cadmium-plated finish



Ordering Information

Description	Cat. No.	Wattage	Program Rating	Frequency	Flux Density	Axial Sensitivity	Voice Coil Impedance	Transformer Taps
Loudspeaker and Assembly	5A531	12W	24W	30-15,000 Hz	9800 lines/cm ²	97dB (1 m [3.3 ft]/1W)	8 Ohms	Capacity 4W; Primary 25V; Secondary 4, 2, 1, and 1/2W
Speaker Assembly	5A606	8W	12W	90-15,000 Hz	—	91dB at 1 m (3.3 ft) for 1W input	8 Ohms	Primary: 25V and 70V; Secondary: 1/2, 1, or 2W on the 25V; 1/2, 1, 2, or 4W on the 70V
Speaker Assembly	5A607	15W	25W	30-20,000 Hz	11,500 lines/cm ²	95dB (1 m [3.3 ft]/1W)	8 Ohms	Primary 25V: 1/2, 1, and 2W; Primary 70V: 1/2, 1, 2, and 4W; Secondary: 8 Ohms
Loudspeaker	5A451	10W	—	80-12,000 Hz	8500 lines/cm ²	92dB (1W @ 4 ft)	8 Ohms	—

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions		
		Speaker Diameter (in.)	Voice Coil Diameter (in.)	Depth (in.)
5A531	1.50	8	3/4	2 13/16
5A606	0.30 (magnet)	8	3/4	2 3/4
5A607	4.25; 0.63 (magnet)	8	1	3
5A451	1.31	8	3/4	2 7/8

Speakers and Speaker Assemblies

Re-Entrant Horn

5A30 Series

The Dukane Model 5A30 Re-entrant Horn offers medium level voice paging for indoor and outdoor applications in industrial warehouse areas, schools, and commercial buildings.

Features and Specifications

- Paging in high noise level areas
- Good intelligibility
- Vibration resistant
- Suitable for use in indoor and outdoor applications
- Beige baked epoxy finish
- Three-way adjustable mounting bracket
- Screw terminals with transparent cover and strain relief clamp
- Built-in 25-volt and 70-volt transformer with selector switch



Ordering Information						
Description	Cat. No.	Power Rating	Frequency Response	Dispersion	Impedance	Sound Pressure
Re-entrant Horn	5A30	15W continuous	400Hz to 14,000Hz	115° at 1000Hz; 70° at 2000Hz; 40° at 4000Hz	5000, 2500, 1300, 666, 333, 89, 45 Ohms	120dB (peak) at 3.3' (1 m) on axis with 15W input; 116dB at 3.3' (1 m) (average) on axis with 15W input

Weights and Dimensions						
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions			
			Width (in.)	Height (in.)	Depth (in.)	
5A30	4.00	5.00	7 7/8	8 3/4	9 5/16	

Speakers and Speaker Assemblies

Speaker/Transformer Assembly

5A543 Series



Photo Not Available

The Dukane Model 5A543 Speaker/Transformer Assembly is designed for use where supervision of speaker wiring is required. The 5A543 is equipped with a DC-blocking capacitor for direct current end-of-line supervision.

Features and Specifications

- Capacitor for direct current "end-of-line" supervision
- Low mounting profile
- Standard EIA mounting dimensions
- Cadmium plated finish

Ordering Information

Description	Cat. No.	Operating Voltage	Frequency Range	Wattage	Voice Coil Impedance	Flux Density	Axial Sensitivity
Speaker/Transformer Assembly	5A543	25V or 70V	400 - 4000 Hz	4 watts	8 Ohms	8500 lines/cm ²	91dB @ 1 meter for 1 watt

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions	
		Overall Diameter (in.)	Depth (in.)
5A543	1.72	8.03	2.75

Speakers and Speaker Assemblies

Coaxial Loudspeaker

5A700 Series



Photo Not Available

The Dukane Model 5A700 is a multi-purpose 8-inch diameter, 16-watt coaxial loudspeaker for voice transmission, music and signal reproduction. It has a post-mounted tweeter, which adds strength to the assembly. A broad, uniform dispersion pattern of 120° provides highly intelligible sound reproduction and distribution for high-quality sound systems.

The 5A700 combines a full-size 8" (203 mm) diameter low-frequency reproducer and a 3" (76 mm) high-frequency reproducer. The two sections are coupled using a built-in crossover network. The 5A700 mounts to a wide variety of sound baffles and enclosures, with the optimum sealed enclosure size of 0.36 cu. ft.

Features and Specifications

- 70 Hz - 15.5 kHz, ±5dB frequency response
- 120° uniform dispersion pattern
- Woofer has 10 oz ceramic magnet
- Tweeter has 2.35 oz ceramic magnet
- Mounts to wide variety of sound baffles and enclosures

Ordering Information

Description	Cat. No.	Power Rating	Sensitivity (SPL at 1W/1m)	Impedance	Frequency Response	Crossover Frequency	Dispersion
Coaxial Loudspeaker	5A700	16 watts RMS	98dB (peak), 95dB (avg.)	8 ohms, nominal	70 Hz - 15.5 kHz (±5dB)	2800 Hz	120°

Physical Specifications

Description	
Cone Material	Treated paper
Basket Material	20 ga. stamped steel
Voice Coil Material	Copper
Voice Coil Former Material	Black anodized aluminum
Surround and Damping	Self-edge with Dampener
Flux Density	10,600 gauss, 1.06 tesla

Thiele-Small Parameters

Description	
Pe:	16 watts
Fs:	105 Hz
Xmax:	0.05 in. (1.2 mm)
Resistance:	6.4 ohms
Qts:	0.513
Qes:	0.556
Qms:	6.58
BL:	8.9 N/A
Efficiency:	2.9%
Vas:	0.507 cu. ft. (14,356.6 cc)
Sd:	33.1 cu. in. (542.4 cc)
Le@1kHz:	0.74 mH
Mms:	0.369 oz (10.5 g)
Cms:	0.039 in./lb (4.4 mJ)

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions				
		Diameter (in.)	Depth (in.)	Voice Coil Diameter (in.)	Voice Coil Winding Width(in.)	Top Plate Thickness (in.)
5A700	2.40	8.125	2.875	1	0.265	0.239
Magnet	0.63	—	—	—	—	—

Speakers and Speaker Assemblies

High Plenum Sound Masking Speaker Assembly 6A530B



The Dukane Model 6A530B Background Sound Masking Speaker Assembly is specially designed and built for background sound masking systems. Two 8" flame-retardant speakers are mounted in an 0.8 cubic foot prism shaped enclosure which is constructed of 20 gauge steel. The 25 or 70.7 volt input is fed to an impedance matching transformer.

The bi-directional configuration of the speakers and prism shape of the enclosure provide for optimum angular dispersion of the masking sound. This unit is designed for high plenum areas in excess of 36 inches (.91 m). If the plenum height is 36 inches (.91 m) or less, Model 6A603 should be used. Wiring of the assembly can be altered for out-of-phase operation to provide an area of reduced sound pressure directly below the unit. In this mode of operation, the sound pressure level on the null will be at least 15 dB down from the on-axis pressure

Features and Specifications

- Adjustable polar pattern
- Flame retardant cone
- Variable power taps
- 20 gauge steel construction
- Flat black finish
- Pigtail terminations
- S-hook and chain mounting (chain not supplied with unit)

Ordering Information

Description	Cat. No.	Operating Voltage	Sensitivity
Sound Masking Speaker Assembly	6A530B	25V or 70V	96 dB average 1/3 octave readings between 200 and 4000 Hz at 1 meter and 0.5 watts/speaker.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions		
		Width (in.)	Height (in.)	Length (in.)
6A530B	15.0	13	11.75	19

Speakers and Speaker Assemblies

Low Plenum Sound Masking Speaker Assembly 6A603



The Dukane Model 6A603 Sound Masking Speaker is designed for sound masking applications in shallow depth or limited plenum areas. Dual 5-inch (12.7 cm) high efficiency speakers are mounted on a folded aluminum baffle designed to maximize low frequency response from a minimum height installation dimension.

The 6A603 is not hampered by "hot spots" directly below the speaker units, since its design employs the bottom surface of the baffle as an acoustic shield.

This assembly is designed for use in areas where the plenum area height is 36 inches (91.4 cm) or less. If the plenum area exceeds this height, Model 6A530B should be used.

Features and Specifications

- Low frequency response
- Bidirectional sound
- Defined rectangular sound pattern
- Dual voltage transformer with variable power taps
- 9 ft. by 23 ft. rectangular response pattern (minimum of 200 ft.²)
- S-hook and chain mounting (chain not supplied with unit)
- Natural aluminum finish

Ordering Information

Description	Cat. No.	Operating Voltage	Sensitivity
Sound Masking Speaker Assembly	6A603	25V or 70V	97.5dB at average 1/3 octave readings between 200Hz and 400Hz at 3.3" (1 m) and 0.5W/speaker

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions		
		Width (in.)	Height (in.)	Length (in.)
6A603	4.5	12	6	25

Speakers and Speaker Assemblies

Speaker Baffle Assembly

6A650



The Dukane Model 6A650 is a speaker, transformer, and speaker baffle assembly. The loudspeaker has an additional whizzer cone for extended high frequency response. The speaker baffle is constructed of steel. The assembly includes a dual voltage 70- and 25-volt matching transformer with taps of 1/2, 1, 2, and 4 watts at 70 volts, and 1/2, 1, and 2 watts at 25 volts.

Features and Specifications

- 8" seamless cone
- 25 and 70-Volt line operation
- Transformer taps: 1/2, 1, 2, and 4 watts at 70 volts; 1/2, 1, and 2 watts at 25 volts
- Cold-rolled steel speaker baffle with white epoxy finish
- Low mounting profile
- Additional whizzer cone for extended frequency response

Ordering Information

Description	Cat. No.	Operating Voltage	Frequency Range	Normal Wattage Rating	Power Rating	Impedance	Axial Sensitivity
Speaker Baffle Assembly	6A650	25V or 70V	30 - 20,000 Hz	15 watts	25 watts	8 ohms	95dB

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions		
		Diameter (in.)	Depth (in.)	Voice Coil Diameter (in.)
6A650	2.75	12.875	3	1
Ceramic Magnet	0.63	—	—	—

Amplifiers and Sound Accessories

Audio Power Amplifier, 125 Watts

Model 1B3125



The 1B3125 Power Amplifier is rated at 125 Watts continuous (RMS) power and it contains circuitry for 24 Vdc backup. The Amplifier mounts in a standard 19 in (483mm) rack. Output voltage may be 25 or 70 VRMS. Supply voltage is 120/240 V, 50/60 Hz, or optionally 24-28 Vdc. The Amplifier contains electronic protection safeguards against overloads or shorted output. A thermal overload protection circuit is also included that opens the primary power circuit if the unit overheats. Both protection circuits are self-restoring. The system may incorporate a Standby Amplifier as a backup against any unit failure.

Features and Specifications

- 24 Vdc battery backup
- Broad frequency response
- Low distortion
- Thermal circuit breaker
- Electronic protection
- UL listed under standards 1711, 1480 and 813
- ULC listed

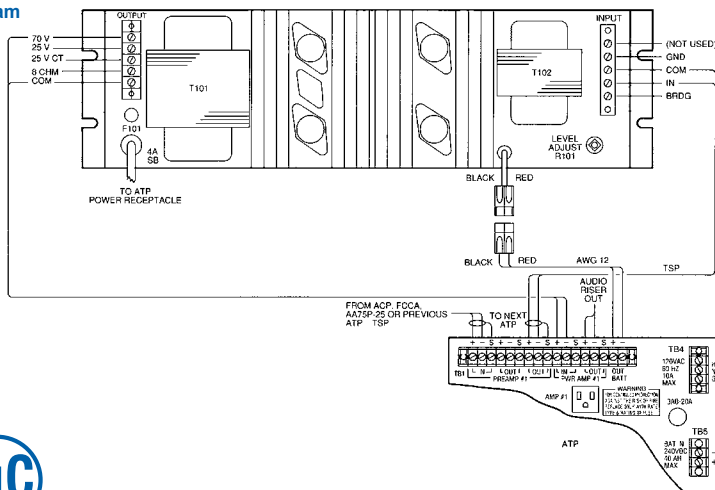
Specifications

Power Output	125 Watts continuous (RMS)
Harmonic Distortion	Less .5% 45 to 20 kHz at rated output
Frequency Response	20 to 20 kHz (+0, -1 dB) per EIA Standard SE 101-A
Signal to Noise Ratio	Greater than -90 dB below rated output (20 to 20 kHz bandwidth)
Input Sensitivity	1 VRMS at 1 kHz for rated output
Input Impedance	75 kOhm
Output Load (Voltage)	75 kOhm (70.7 V) balanced 2.5 kOhm (25 V) balanced 25 V center tap 8 Ohm (31.6 V) balanced
Output Regulation	Better than 1 dB, zero load to full load
Controls	Input level control, rear panel
Terminations	Screw terminal strips, barriers on output
Indicators	LED power, LED Thermal Overload
Power Source	120/240 Volts, 50/60 Hz; 24-28 Vdc
AC Power Required	3.0 Amps (120 V)/ 1.5 Amps (240 V), 0.22 Amps at idle
DC Power Required	11.5 Amps at rated output
Fuse	4 Amp, slow blow; 15 Amp (DC)
Finish	Charcoal, baked enamel
Dimensions	5-1/4 in (133mm) high, 19 in (483mm) wide, 6-5/8 in (168mm) deep

Ordering Information

Catalog Number	Description	Shipping Weight
1B3125	Audio Power Amplifier, 125 Watts	22.5 lbs (10.1 kg)

Connection Diagram



Amplifiers and Sound Accessories

Audio Power Amplifier, 250 Watts

Model 1B3250



Photo Not Available

The 1B3250 Power Amplifier is rated at 250 Watts continuous (RMS) power and it contains circuitry for 24 Vdc backup. The Amplifier mounts in a standard 19 in (483mm) rack. Output voltage may be 25 or 70 VRMS. Supply voltage is 120/240 V, 50/60 Hz, or optionally 24-28 Vdc. The Amplifier contains electronic protection safeguards against overloads or shorted output. A thermal overload protection circuit is also included that opens the primary power circuit if the unit overheats. Both protection circuits are self-restoring. The system may incorporate a Standby Amplifier as a backup against any unit failure.

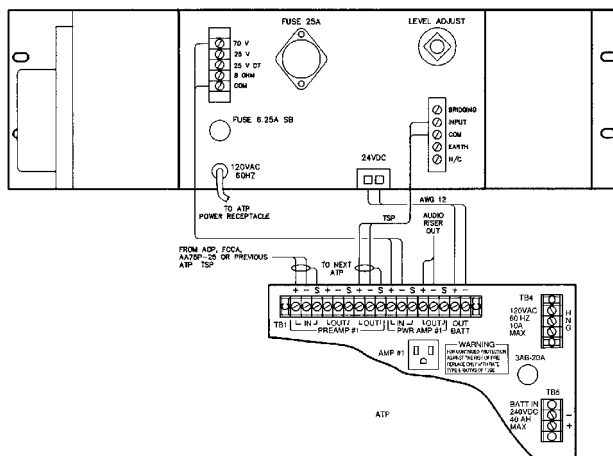
Features and Specifications

- 24 Vdc battery backup
- Broad frequency response
- Low distortion
- Thermal circuit breaker
- Electronic protection
- UL listed under standards 1711,1480, and 813
- ULC listed

Specifications	
Power Output	250 Watts continuous (RMS)
Harmonic Distortion	Less than .5% 45 to 20 kHz at rated output
Frequency Response	20 to 20 kHz (+0, -1 dB) per EIA Standard SE-101-A
Signal to Noise Ratio	Greater than -90 dB below rated output (20 to 20 kHz bandwidth)
Input Sensitivity	1 VRMS at 1 kHz for rated output
Input Impedance	75k Ohms
Output Load (Voltage)	40 Ohms (70.7 V) balanced 2.5 Ohms (25V) balanced 25V center tap 8 Ohms (31.6 V) balanced
Output Regulation	Better than 1 dB, zero load to full load
Controls	Input level control, rear panel
Terminations	Screw terminal strips, barriers on output
Indicators	LED power, LED Thermal Overload
Power Source	120/240 Volts, 50/60 Hz; 24-28 Vdc
AC Power Required	5.8 Amps (120 V) / 2.9 Amps (240 V), 0.22 Amps at idle
DC Power Required	22.0 Amps at rated output
Fuse	6.25 Amp, slow blow; 25 Amp (DC)
Finish	Charcoal, baked enamel
Dimensions	5-1/4 in (133mm) high, 19 in (483mm) wide, 15 in (381 mm) deep

Ordering Information		
Catalog Number	Description	Shipping Weight
1B3250	Audio Power Amplifier, 250 Watts	50 lbs (22.5 kg)

Connection Diagram



Amplifiers and Sound Accessories

Audio Power Amplifier

Model 1A4060, 1A4125, 1A4250



The Model 1A4xxx Power Amplifier is rated at 60, 125, or 250 watts (rms), depending on the model. They mount in a standard 19-inch (48.3 cm) wide equipment rack and can be shipped mounted in a rack. These amplifiers can be used in sound reinforcement, general paging, and school communication systems applications. They are UL 813 listed.

Features and Specifications

- Broad frequency response
- Low distortion
- Dual independent electronic protection circuits
- Self-resetting heat sink thermal circuit breaker (1A4060, 1A4125)
- Self-resetting power transformer thermal circuit breaker (1A4060, 1A4125)
- Self-resetting thermal cutouts (1A4250)
- Transformer and direct coupled outputs (1A4250)
- UL 813 listed

Specifications	
1A4060 Power Amplifier	
Power Output	60 watts (rms)
Frequency Response (@ 9dB below rated output ¹)	20Hz to 20kHz (+0/-1dB)
Power Response	45Hz to 20kHz, +0/-1dB (0dB = 60 watts), THD 0.5%
Harmonic Distortion	0.5%, 45Hz to 20kHz (bandwidth limited 20Hz to 30kHz) @ 1kHz at rated output (THD typically <0.05%)
Signal-to-noise Ratio	Better than 96dB below rated output
Input Sensitivity	0.5V (rms) at 1kHz for rated output
Input Impedance	20k Ohms
Outputs (All fully transformer isolated)	70.7V (83 Ohms) 25V (10 Ohms) balanced 25V center tap 8 Ohms (22V)
Output Regulation (no load to full load voltage change)	Better than 1dB
Control	Rear panel input level control
Terminations	Screw terminal strips (w/ barriers and wire capture plates on outputs)
Indicator	Power-on LED
Power Source	120Vac, 60Hz
AC Power Required	1.4A (120Vac) at rated output 0.18A at idle
Fuse	1.5A, slow-blow
Finish	Baked charcoal enamel
Dimensions	5-1/4" (13.3 cm) high, 19" (48.3 cm) wide, 6-1/4" (15.9 cm) deep

¹Per EIA Standard

Specifications	Continued
1A4125 Power Amplifier	
Power Output	125 watts (rms)
Frequency Response (@ 9dB below rated output ¹)	20Hz to 20kHz (+0/-1dB)
Power Response	45Hz to 20kHz, +0/-1dB (0dB = 125 watts), THD 0.5%
Harmonic Distortion	0.5%, 45Hz to 20kHz (bandwidth limited 20Hz to 30kHz) @ 1kHz at rated output (THD typically <0.05%)
Signal-to-noise Ratio	Better than 92dB below rated output
Input Sensitivity	0.5V (rms) at 1kHz for rated output
Input Impedance	20k Ohms
Outputs (All fully transformer isolated)	70.7V (40W) 25V (5W) balanced 25V center tap 8 Ohms (31.6V)
Output Regulation (no load to full load voltage change)	Better than 1dB
Control	Rear panel input level control
Terminations	Screw terminal strips (w/ barriers and wire capture plates on outputs)
Indicator	Power-on LED
Power Source	120Vac, 60Hz
AC Power Required	2.8A (120Vac) at rated output 0.22A at idle
Fuse	3A, slow-blow
Finish	Baked charcoal enamel
Dimensions	5-1/4" (13.3 cm) high, 19" (48.3 cm) wide, 6-1/4" (15.9 cm) deep
Net Weight	17 pounds (7.7 kg)

Amplifiers and Sound Accessories

Audio Power Amplifier

Model 1A4060, 1A4125, 1A4250

Specifications	Continued
1A4250 Power Amplifier	
Power Output	Transformer output: 250W (rms) Direct coupled output: 280W (rms)
Frequency Response (@ 9dB below rated output per EIA standard SE-101A)	20Hz to 20kHz (+0/-1dB) for both transformer and direct outputs
Power Response	Transformer output: 45Hz to 20kHz, +0/-1dB (0dB = 250 watts), THD 0.5% Direct coupled output: 20Hz to 20kHz, +0/-1dB (0dB = 280 watts), THD 0.5%
Harmonic Distortion	0.5%, 45Hz to 20kHz (bandwidth limited 20Hz to 30kHz) THD typically <0.05% at rated output @ 1kHz
Signal-to-noise Ratio (20Hz to 20kHz bandwidth)	Better than 96dB below rated output
Input Sensitivity	0.5V (rms) at 1kHz for rated output
Input Impedance	20k Ohms
Outputs	70.7V (20 Ohms), transformer isolated 25V (2.5 Ohms), balanced, transformer isolated 25V center tap, transformer isolated 4 Ohms (33.5V), direct coupled
Output Regulation (no load to full load voltage change)	Better than 1dB
Control	Rear panel input level control
Terminations	Screw terminal strips (with barriers and wire capture plates on outputs)
Indicators	Power-on LED Thermal overload LED
Power Source	120Vac, 60Hz
AC Power Required	4.9A (120Vac) at rated output 0.27A at idle
Fuse	5A, slow-blow
Finish	Charcoal-colored baked enamel
Dimensions	5-1/4" (13.3 cm) high by 19" (48.3 cm) wide and 13" (33 cm) deep
Net Weight	38 pounds (17.1 kg)

Ordering Information	
Model	Description
1A4060	Power Amplifier , 60 watts
1A4125	Power Amplifier, 125 watts
1A4250	Power Amplifier, 250 watts

Amplifiers and Sound Accessories

Multitone Generator

Model 15A266B



Photo Not Available

Model 15A266B Multitone Generator supplies additional tone types, including chime. It attaches to the rear panel of the console.

Features and Specifications

- Built-in tone generator with seven tone types

Specifications	
Rated Output	1Vrms nominal
Output Load	10k Ohm or greater
Power Required	12 or 24Vdc selectable, 30mA
Controls	Output level control and pitch control
Dimensions	5-1/2 in (14 cm) high, 4-1/4 in (10.8 cm) wide and 1-1/2 in (3.8 cm) deep
Finish	Charcoal-colored, baked enamel
Terminations	Feed-through, screw-type terminal block

Ordering Information	
Catalog Number	Description
15A266B	Multitone Generator

Amplifiers and Sound Accessories

Power Supplies

Models 17A365, 17A437



Photo Not Available

17A365 Regulated DC Power Supply

The Model 17A365 Regulated DC Power Supply is a rack-mounted, regulated DC power supply that operates from a 105 - 125Vac primary source, and provides 24Vdc at 3.2 amps with overload protection. Operating under an electronic foldback principle, the output is self-restoring when the overload or short condition is removed.

17A437 Power Supply

The Model 17A437 Power Supply is designed to be used with the Model 1A881 Remote Microphone Preamplifier, 2A68A Mixer/Preamplifier, 2A95 Line Amplifier, and the 15A266A Multi-Tone Generator. It is a compact plug-in DC power supply, intended for use where 24Vdc (nominal) at 80mA maximum is required. It comes with a 6-foot (1.8 m) cord.

Features and Specifications

17A365 Regulated DC Power Supply

- Continuous duty operation
- Regulated 24Vdc @ 3.2A
- Wide input voltage range
- Electronic foldback output protection
- Standard rack mounting

17A437 Power Supply

- Convenient plug-in construction
- Underwriters' Laboratories listed

Specifications

17A365 Regulated DC Power Supply

Rated	24Vdc at 3.2A
Output dimensions	3-1/2" (8.9 cm) high, 19" (48.3 cm) wide, 5-1/2" (14.0 cm) deep
Power required	105Vac to 125Vac, 50/60Hz at 170W nominal
Net weight	12 pounds (5.4 kg)
Regulation	Less than 2%
Finish	Charcoal-colored, baked enamel
Ripple	Less than 10mV (rms)
Terminations	Screw terminals

17A437 Power Supply

Output voltage	24Vdc +/-1V
Input voltage	120Vac, 60Hz
Output current	80mA
Output cord	6' (1.8 m) long +/-1" (2.5 cm) strip, with 1/2" (1.3 cm) tin ends
No load voltage output	32Vdc maximum
Cord polarity	Positive: black/white or equivalent; Negative: black
Ripple	120mVac +/-10%, with 300 Ohm load
Net weight	8 oz (227 g)

Ordering Information

Catalog Number	Description
17A365	Regulated DC Power Supply
17A437	Power Supply

Amplifiers and Sound Accessories

Microphone

7A766

The Edwards Model 7A766 Touch-To-Talk Microphone and Stand is a desk unit ideal for paging and communications in applications such as bowling lanes, restaurants, schools, and dispatching operations. The microphone has an on/off switch operated via a fingertip control bar that provides momentary or locking switch operation. For momentary operation, press the bar and pull it forward. Moving the bar back and releasing it unlocks the switch. The on/off switch includes a set of contacts prewired for remote relay operation. The height of the microphone is adjustable and it is made of high impact ARMO-DUR® which will not crack, peel, rust, or dent. The microphone can be used in high or low impedance applications and has a switch on the underside of the base for selecting the impedance required.

Features and Specifications

- Dual impedance with selector switch
- Adjustable microphone height
- ARMO-DUR® base and microphone case
- Fingertip control bar-locking or non-locking action

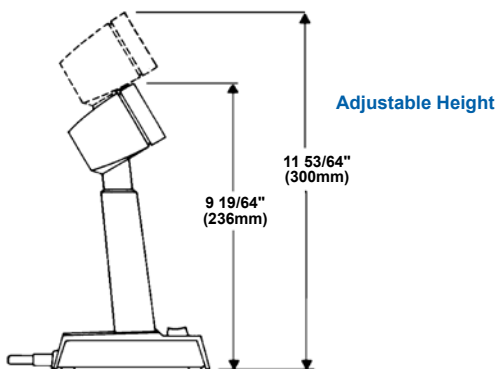


Specifications

Type	Controlled Magnetic
Switch Circuits	Microphone: normally closed Relay: normally open
Polar Pattern	Omni-directional
Dimensions	9-19/64" (23.6 cm) high, 4" (10.2 cm) wide, 5-11/16" (14.4 cm) deep; 11-53/64" (30 cm) high when fully extended
Frequency Range	200Hz to 5,000Hz
Finish	Two-tone gray ARMO-DUR
Impedance	225 Ohms or high
Net Weight	1 lb 10 oz. (736 g)
Output Level (At 1000hz)	Open Circuit Voltage: 0.14mV (-77.0dB) low impedance 1.78mV (-55.0dB) high impedance (0dB = 1 volt per microbar)
Shipping Weight	2 lb 4 oz (1,020 g)
Controls	Touch-to-talk control bar with lock-on operation, wired for remote relay operation; high/low impedance selector switch
Termination	7' (2.1 m) cable (four conductor, two shielded), non-detachable

Ordering Information

Catalog Number	Description
7A766	Touch-to-talk Microphone And Stand



Amplifiers and Sound Accessories

Paging Monitor and Relay Equipment

Model 9A1687, 9A1685B, 9A1535



9A1687 Amplified Monitor Panel

The Edwards Model 9A1687 Amplified Monitor Panel provides facilities for both aural and visual monitoring of up to 12 channels of 1V, 25V and 70V line level signals. The LED level display allows the level of the line being monitored to be accurately adjusted or checked. The monitor speaker provides an aural reproduction of the program material being monitored.

9A1685B Monitor Panel

The 9A1685B Monitor Panel allows aural and visual monitoring of 25V or 70V output sources. The VU meter provides visual monitoring of the output level, while the speaker provides an audio reproduction of the program material being monitored. The monitor panel allows dual channel monitoring. When used in association with the Model 4A1445 Universal Selector Panel, it also allows multi-output monitoring.

9A1535 Zone Relay Panel

The Edwards Model 9A1535 Zone Relay Panel is a custom switching panel which may be expanded from 1 relay circuit to 10 relay circuits. Each relay module is a four-pole, double-throw type with contacts rated for 3 amps at 28Vdc or 115Vac. The flexibility of the relay panel design allows its use in various functions such as zone switching, amplifier substitution, and system control.

Features and Specifications

9A1687 Amplified Monitor Panel

- Accommodates Up to 12 Inputs
- Monitors 1 V, 25 V or 70 V lines
- Aural and Visual Monitoring
- Color-Coded, Calibrated LED Level Display
- Protective Polycarbonate Panel Overlay
- Rack-Mount or Table-Top

9A1685B Monitor Panel

- Protective Polycarbonate Panel Overlay
- Easy-to-Read VU Meter
- 25 or 70 Volt Output Monitoring
- Allows Aural and Visual Monitoring

9A1535 Zone Relay Panel

- Easy Expandability
- Multi-Purpose
- Precious Metal Relay Contacts
- Long-Life Relays

Specifications

9A1687 Amplified Monitor Panel	
Amplifier Power	3 watts
Adjacent Channel Crosstalk	+/- 60dB
Input Impedance	1V: plus or minus 10K Ohms 25V: plus or minus 100K Ohms 70V: plus or minus 280K Ohms
Level Indicator	10-segment LED display Display range: -21 dB to +6 dB in 3 dB segments Calibrated to display 0 dB when: 1 Vrms applied to 1 V input 10 Vrms applied to 25 V input 28 Vrms applied to 70 V input
Controls	Lighted power switch Monitor speaker volume control 12-position rotary program selection switch
Speaker	3" (7.6 cm) by 5" (12.7 cm) oval w/ 2.35 oz. ceramic magnet
Convenience Outlet	500 watts maximum
Terminations	Screw type
Power Requirements	120 Vac, 60 Hz, 17 watts maximum, 6 watts standby
Dimensions	3-1/2" (8.9 cm) high x 19" (48.26 cm) wide x 9-1/2" (6.35 cm) deep
Finish	Cover: Textured, charcoal-colored baked enamel Chassis: Charcoal, baked enamel Front: Gray polycarbonate panel overlay
Weight	11 pounds, 7 ounces (5.1 kg)

Amplifiers and Sound Accessories

Paging Monitor and Relay Equipment

Model 9A1687, 9A1685B, 9A1535

Specifications		Continued
9A1685B Monitor Panel		
Function	Visual and aural monitoring of 25V and 70V speaker lines	
Controls	Monitor speaker volume control Concealed meter calibration control Program selection switch	
Speaker	4-1/2" (11.4 cm) by 2-1/2" (6.4 cm) oval speaker	
Terminations	Screw terminals	
Dimensions	3-1/2" (8.9 cm) high, 19" (48.3 cm) wide, 3-1/2" (8.9 cm) deep	
Weight	3 lb, 2 oz (1.4 kg)	
Finish	Charcoal-colored, baked enamel with protective polycarbonate panel overlay	
9A1535 Zone Relay Panel		
Power Required	40mA at 24Vdc for each 110-1533 Relay Module	
Capacity	One to ten relay circuits	
Terminations	Screw terminals	
Finish	Charcoal-colored baked enamel	
Dimensions	3-1/2" (8.9 cm) high by 19" (48.3 cm) wide and 7-3/4" (19.6 cm) deep	
Net Weight	6 lb, 7 oz (2.9 kg)	
Subassemblies	110-1551 Control Chassis, 110-1533 Relay Module (one relay per module)	

Ordering Information	
Catalog Number	Description
9A1687	Amplified Monitor Panel
9A1685B	Monitor Panel
9A1535-1 to -10	Zone Relay Panel (must specify # of relays up to 10)

Amplifiers and Sound Accessories

AM-FM Tuner/CD and MP3 Player with Mixer/PreAmp

RCD350P



Dukane AM-FM Tuner/CD and MP3 Player with Mixer/PreAmp is an auxiliary music and sound source for paging and intercom systems. It can be installed in a standard 19 inch rack or as a desktop unit by removing the rack mounting hardware.

Features and Specifications

CD Player

- Supports most common CD audio formats: including CD, MP3 and WMA
- Aux stereo input jack (3.5 mm) allows for playback of MP3 devices and their pre-recorded music or announcements
- Three-band equalizer with six preset tone curves
- Single line text LCD display with 8-character text
- MP3 ID3 Tag Display (Title, Artist, Album)- shows tuner band, elapsed playback time, track number, type of disc, (when repeat play and local seek tuning are activated) - displays time when not in use
- Remote control for tuner included

Mixer/Preamp Unit

- Priority enable circuit
- Two low Z microphone inputs
- Two AUX inputs
- One bridge input

Specifications	
Tuners	
AM Tuner	Frequency range selectivity: 530kHz to 1710kHz 40dB (+/-10kHz) Maximum sensitivity: 14dB/mV (5mV at 0.5W)
FM Tuner	Frequency range alternate channel selectivity: 87.9MHz to 107.9MHz 75dB Usable sensitivity stereo separation: 15.2dBf (1.6mV, 75W) 35dB at 1,000Hz 50dB quieting sensitivity image response ratio: 17.2dBf (2.0mV, 75W) 50dB Frequency response if response ratio: +/- 3dB 30Hz-15,000Hz 100dB Capture ratio signal-to-noise ratio: 1.5dB 70dB
CD Player	
WMA (.wma)	Encoded by Windows Media Player Bit rate: 48 Kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)
WAV (.wav)	Compatible format: Linear PCM (LPCM). MS ADPCM Quantization bits: 8 and 16 (LPCM), 4 (MS ADPCM) Sampling frequency: 16 kHz to 48 kHz (LPCM), 22.05 kHz and 44.1 kHz (MS ADPCM)
MP3 (.mp3)	Bit rate 8 kbps to 320 kbps Sampling frequency: 16 kHz to 48 kHz (32,44,1,48 kHz for emphasis) Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3, 2.4 (ID3 Tag Version 2.x is given priority over Version 1.x; M3u playlist: No; MP3i (MP3 interactive), mp3 PRO: No
Disc	Playable folder hierarchy: up to eight tiers (A practical hierarchy is less than two tiers) Playable folders: up to 99; Playable files: up to 999 File systems: ISO 9660 Level 1 and 2, Romeo, Joliet Multi-session playback: Yes; Packet write data transfer: No; Regardless of the length of blank section between the songs of the original recording, compressed audio discs play with a short pause between songs.

Amplifiers and Sound Accessories

AM-FM Tuner/CD and MP3 Player with Mixer/PreAmp

RCD350P

Specifications	Continued
Overall Data	
Power requirements	+12Vdc, 700mA maximum
Inputs	2 low-impedance microphones, 2 auxiliary inputs, built-in AM/FM/CD/MP3 Player
Audio line output	3Vrms maximum
Controls (front)	POWER on/off switch, MASTER volume control, MONITOR speaker volume, control, 5 source selector/mixer bank
Controls (AM-FM tuner/CD Player)	Function, EQ/Loud, SCR/Off, Station Program Buttons (6), Eject (CD), Audio, Clock set, Disp/SCRL, Band/ESC, Curser ControlScan; Tuning (manual or preset, five AM and ten FM preset stations available)
Controls (rear)	5 source preset input level adjustments, 1 monitor preset level adjustment, 1 bar graph level adjustment
Indicators/displays	Master Power LED; Preamp output level bar graph
Terminations	Preamp out (screw terminal); Power (screw terminal); AUX (RCA pin jack); MIC input (screw terminal); Bridge (RCA pin jack); Priority Enable Input and Output (screw terminal); Antenna (F-81C female for RG59 coaxial cable, 75 ohms)
Housing	Metal rack mount panel finished in textured charcoal-colored powdercoat. Can be converted to tabletop.
Dimensions	19" (48.3 cm) wide x 3.5" (8.9 cm) high x 10.25" (26 cm) deep When used as a table top configuration, the dimensions are: 14" (36 cm) wide x 2.75" (7 cm) high x 10.25" (26 cm) deep
Antenna termination	F-81C female for RG59 coax cable 75 Ω
Wiring Preamp out	Twisted pair, 22 AWG min.

Ordering Information		
Model	Description	Weight
RCD350P	Rack mount AM/FM Tuner/CD Player and MP3 Player with pre amp, Includes RCD-PS Power Supply.	11.7 lb (5.3 kg)
RCD-RA	Replacement rackmount adapter kit	
RCD-PS	Replacement +12VDC power supply	

Amplifiers and Sound Accessories

Preamps and Preamp Mixers

2A37, 2A40, 2A45, 2A68A, 2A96A



2A40 and 2A45 Preamps

The Edwards Model 2A40 Dual Stereo Summing Input Module provides auxiliary level inputs to any Edwards modular audio component from two stereo sources (left and right). The Edwards Model 2A45 Dual Input Module is a dual input, dual level, auxiliary input module, and provides selectable gain (1V or 0.1V) on each input.

2A96A Mixer-Preamplifier

The Edwards Mixer/Preamplifier Model 2A96A has the capacity of accepting eight program inputs (four Edwards Input Modules) and a bridging input. The Mixer/Preamplifier has the latest circuit technology to maintain low distortion (THD) and signal-to-noise ratio. Dual, single-ended outputs can be converted into an active, balanced output. The dual outputs are desirable for driving individual channel amplifiers. The Mixer/Preamplifier allows for priority muting.

The unit's mounting brackets can be removed for table-top mounting in a finished enclosure. The Mixer/Preamplifier has eight individual level controls, bass and treble controls, master volume control, lighted AC power switch and a tone control bypass switch.

2A68A Remote Powered Mixer-Preamplifier

The 2A68A Remote Powered Mixer-Preamplifier provides facilities for two low Z microphone inputs, one auxiliary input, and a bridging input. The microphone inputs are transformer-coupled, and the unit is protected from radio frequency interference. The panel provides a single-ended audio output of 1Vrms (nominal) and is powered by a

remote DC power supply with a minimum capacity of 50mA. The controls include individual microphone level controls, an auxiliary fader control, bass and treble controls, and a master volume control.

Features and Specifications

2A37 Input Module

- Excellent frequency response
- Dual input module
- Selectable inputs
- Low frequency roll-off

2A40 Dual Stereo Summing Input Module

- Excellent frequency response
- Dual stereo inputs

2A45 Dual Input Module

- Selectable gain
- Excellent frequency response
- Dual input module

2A96A Mixer-Preamplifier

- Modular Concept
- Master/Slave Architecture
- Low Distortion and Noise
- Priority Muting
- Protective Polycarbonate Panel Overlay
- Color-Coded, Calibrated LED Level Display
- Rack Mount or Table-Top

2A68A Remote Powered Mixer-preamplifier

- Low distortion and noise
- Transformer-coupled microphone inputs
- Protected from radio frequency interference
- DC Powered

Specifications	
Preamps	
Model 2A37	
Microphone Gain (nominal)	45dB
Inputs	Two selectable microphone/auxiliary
Input Sensitivity	Microphone input: 300 microvolts Auxiliary input: 0.1V or 1V
Input Terminations	Screw terminals for microphones, RCA pin jacks for auxiliary
Frequency Response	20Hz to 20,000Hz, +/-1dB
Signal-to-noise Ratio	Microphones: +/- 60dB Auxiliaries: +/- 65dB
Source Impedance	Microphone: 150 Ohms to 200 Ohms, transformer-isolated Auxiliary: 10k Ohms
Selectable Frequency Roll-off	Flat or 320Hz at 6dB/octave roll-off
DC Power/Current	+/-15Vdc @ 10mA
Switches	Two input selection, two low-frequency roll-off
Dimensions	3" (7.6 cm) wide by 3" (7.6 cm) high and 5-1/4" (13.4 cm) deep
Weight	10.5 oz (297.7 g)
Finish	Charcoal-gray baked enamel on faceplate
Load Impedance	10k Ohms

Specifications		Continued
2A40 Dual Stereo Summing Input Module		
Input Sensitivity	500mV	
Frequency Response	20Hz–20kHz, +/- 1dB	
Inputs	input 1 left / right, input 2 left / right	
Input Termination	RCA phono jack	
Signal-to-noise	75dB, (20Hz–20kHz band limiting)	
Ratio Power Requirement	+/- 15Vdc @ 10mA	
Input Impedance	100k Ohms	
Dimensions	2.8" (7.1 cm) high x 2.9" (7.4 cm) wide x 4.8" (12.2 cm) deep	
Weight	12.5 ounces (354 g)	
Controls	None	
Finish	Charcoal gray faceplate	

Amplifiers and Sound Accessories

Preamps and Preamp Mixers

2A37, 2A40, 2A45, 2A68A, 2A96A

Specifications Continued

2A45 Dual Input Module	
Inputs	Inputs 1 and 2: Dual Level Aux
DC Power Circuit	+/-15Vdc @ 10mA
Input Sensitivity	0.1V or 1V
Dimensions	3" (7.6 cm) wide by 3" (7.6 cm) high by 5-1/4" (13.3 cm)
Frequency Response	20Hz-20kHz (+/-1dB)
Weight	12.5 oz (354 g)
Signal-to-noise Ratio	0.1V Aux: ≥ 75dB 1V Aux: ≥ 75dB Bandwidth limited 20Hz-20kHz
Finish	Charcoal-gray baked enamel on faceplate
Source Impedance	Auxiliary: 10k Ohms
Load Impedance	5k Ohms
Input Termination	Auxiliaries: Screw terminals

2A96A Mixer-Preamplifier	
Rated Output	Dual single-ended outputs, 6Vrms (+18.0dBm). Active balanced output, 12Vrms (+24dBm)
Output Load Impedance	600 ohms or greater, single-ended or balanced
Frequency Response	+/-1/2dB, 20Hz to 20,000Hz (tone controls flat)
Distortion	Less than 0.50%, 20Hz to 20,000Hz
Sensitivity	(Dependent on input module) Typical: Microphone = 300mV (Lo Z) Auxiliaries = 0.1V/1V
Noise Level	MICROPHONE: Greater than -60dB AUXILIARY: Greater than -65dB MASTER CONTROL OFF: Greater than -85dB
Input Impedance	Bridging = Approximately 6k ohms (Dependent On Input Module)
Tone Controls	+/-10dB (Boost and Cut). Bass @ 100Hz. Treble @ 10,000Hz.
Muting	Inputs 3 through 8 muted. "Master/Slave" allows all inputs muted Greater than 50dB
Controls	Eight Input level controls Bass and treble controls Master volume control Lighted power switch Tone control bypass switch (rear)
Power Requirements	120Vac, 60Hz, 6 watts
Temperature Range	-10° C to +60° C (12° F to 140° F)

Ordering Information

Model	Description
2A37	Dual Input Module with selection switch for low frequency roll-offs
2A40	Dual Stereo Summing Input Module
2A45	Dual Input Module with selectable gain
2A96A	Mixer/Preamplifier
2A68A	Remote Powered Mixer-preamplifier Panel
3A230	Bridging Transformer
17A437	Power Supply
438-407	Dual Microphone Kit

Specifications Continued

2A96A Mixer-Preamplifier	
Terminations	RCA phono jacks (master/slave, output 1, output 2, and bridging). Screw terminals (mixer outputs and muting)
Dimensions	3-1/2" (8.9 cm) high x 19" (48.3 cm) wide x 11" (27.9 cm) deep Desktop mounting (mounting brackets removed)
Weight	12 pounds (5.44 kg)
Finish	Cover: Textured, charcoal-colored baked enamel Chassis: Charcoal, baked enamel Front: Gray polycarbonate panel overlay
Associated Equipment	2A Series Edwards Input Modules 2A37, 2A40 and 2A45 input Modules.

2A68A Remote Powered Mixer-preamplifier Panel

Rated Output	Maximum +18dBm (600 Ohms load, single-ended) Nominal 1Vrms (+2dBm)
Distortion	Less than 0.25%, 20Hz to 20,000Hz
Frequency Response	+/-1dB, 20Hz to 20,000Hz (tone controls flat)
Sensitivity	Microphone: 0.25mV; Auxiliary: 0.1Vrms
Noise Level	Microphone: better than -63dBv (@ -67dBv input, BW 20,000Hz) Auxiliary: better than -75dBv (@ 0.1Vrms input, BW 20,000Hz) Master control off, -85dBv (@ nominal output)
Input Impedance	Microphone: 200 Ohms or less (for source impedances of 250W or less), balanced input Auxiliary: 100k Ohms (minimum), single-ended Bridging input: 100,000 Ohms (minimum), single-ended
Load Impedance	600 Ohms or greater, single-ended
Tone Controls	+/-12dB (boost and cut) bass 50Hz, treble 10,000Hz
Power Requirements	24Vdc to 30Vdc, 50mA
Dimensions	1-3/4" (4.5 cm) high, 19" (48.3 cm) wide, 8-1/2" (21.6 cm) deep
Finish	Charcoal-colored, baked enamel
Connections	Screw terminals and RCA phono jacks at rear of panel

Associated Equipment

17A437	Power Supply
438-407	Dual Microphone Adder Kit

Amplifiers and Sound Accessories

Graphic Equalizer

3A242A



The Edwards Model 3A242A One-Third Octave Graphic Equalizer has 31 active filters at the ISO frequencies from 20Hz to 20,000Hz, with "Constant Q" filtering. The 31 slide potentiometers control each individual frequency band through a range of plus and minus 12dB. Grounded, detented center-tap positions on each level control assure positive flat position of each filter section. Adjustable high and low pass shelving filters are continuously variable. The equalizer has a frequency response of ± 0.5 dB and distortion of less than 0.1% @ 1Vrms with all filter controls flat. The unit's balanced low impedance output is capable of 6Vrms (+18.0dBm) and has a nominal output of 1Vrms (+3.0dBm) into 600 ohms or greater load impedance. A 10-segment, calibrated LED display facilitates monitoring of the equalizer output level.

A lighted front panel power switch allows the input and output to be tied together to allow a fail-safe bypass circuit when the switch is OFF. A front

panel equalizer bypass switch also allows for equalizer bypass with power ON. The equalizer fits a standard 19" (48.3 cm) mounting enclosure.

The optional Edwards Model 110-1976A pink noise generator can be mounted internally for use as a sound masking generator or a noise source for the equalization process.

Features and Specifications

- Constant Q topology
- Precision, center-tapped, slide attenuators
- Adjustable high/low shelving filters
- 12 dB cut or boost
- Color-coded, calibrated LED display

Specifications

3A242A One-third Octave Graphic Equalizer

Input Impedance	Greater than 15,000 Ohms
Output Impedance	Approximately 100 Ohms
Gain	Unity gain (± 1 dB), filters off
Frequency Response	20Hz to 20kHz, $\pm 1/2$ dB
Distortion	Less than 0.1% @ 1Vrms, all filter controls @ 0
Noise	Greater than -90 dB below full output Greater than -80 dB below 1Vrms (bandwidth limited), input shorted, controls flat)
Boost/cut Range	± 12 dB @ ISO center frequencies
Rated Output	6Vrms (+18.0dBm) maximum into 600 Ohms; 1Vrms (+3.0dBm) nominal, balanced
Shelving Filters	High/Low slope of 12dB/octave: High pass tuning range of 10Hz to 400Hz, $\pm 5\%$; Low pass tuning range of 10kHz to 30kHz, $\pm 5\%$
Controls	Thirty-one 1/3 octave slide controls Equalization bypass switch Output level control Low pass control High pass control Lighted power switch

Specifications

Continued

3A242A One-third Octave Graphic Equalizer

Level Indicator	10-segment, calibrated LED level display
Terminations	Screw terminals and RCA jacks
Power Requirements	120Vac, 60Hz, 100mA
Dimensions	3-1/2" (8.9 cm) high x 19" (48.3 cm) wide x 11" (28 cm) deep
Weight	12 lbs (5.44 kg)
Finish	Cover: Textured, charcoal-colored baked enamel Chassis: Baked charcoal enamel Front: Gray polycarbonate panel overlay

110-1976A Pink Noise Generator Card

Pink Noise Frequency Range	30Hz to 16kHz
Nominal Output Level	0dBm, ± 1 dB
Output Impedance	Less than 100 Ohms
Power	Received from 3A242A

Ordering Information

Model	Description
3A242A	One-third Octave Graphic Equalizer
Optional Equipment for 3A242A	
438-674	Equalizer Security Cover
110-1976A	Pink Noise Generator Card

Amplifiers and Sound Accessories

Universal Selector Panel

Model 4A1445



The Dukane Model 4A1445 Universal Selector Panel performs various switching functions. This panel can switch any of 11 inputs to a single output. The switching configuration allows a twelfth selector pushbutton to bypass its associated panel to additional selector panels, providing unlimited input selection capability.

All switches are interlocking press-to-lock push-buttons. The switch mechanisms are high quality, precision constructed, low noise, silver plated copper alloy contact selector switches capable of handling audio power or low level audio. The panel can accommodate the wiring needed to operate optional light bulbs which illuminate the pressed pushbuttons. These light bulbs are replaceable from the front without removing the panel from the rack. The pushbuttons also allow identifying legends to be installed. The bypass pushbutton is accentuated with a red insert for easy recognition.

Features and Specifications

- Select Any One of Eleven Inputs
- Precision Construction
- Positive Switching Action
- Reliable

Specifications

Capacity	Selects one of eleven inputs to the panel output
Switches	Eleven press-to-lock selector switches, plus one press-to-lock panel bypass switch
Dimensions	1-3/4" (4.5 cm) high by 19" (48.3 cm) wide and 4-1/2" (11.4 cm) deep
Net Weight	2 lb, 14 oz (1.3 kg)
Terminations	Screw terminals
Finish	Charcoal-colored baked enamel

Ordering Information

Model	Description
4A1445	Universal Selector Panel

Baffles, Back Boxes and Transformers

Speaker Baffles

6A328, 6A338, 6A342B, 6A530B, 6A603, 6A625A, 6A630, 6A633, 6A634, 6A635, 6A636, 6A650 and 6L100

Speaker Baffles and Baffle Assemblies are ideally suited for use in classrooms, lobbies, stores, restaurants, and other commercial and educational establishments. Flush mount models available with white or brushed aluminum finish. Wall mounted assemblies have walnut-grained vinyl finish.

Features and Specifications

6A328 Square Speaker Baffle

- Wall mount or Ceiling mount
- Sturdy Steel
- Finished folded edges
- No speaker screws visible

6A338 Flush Speaker Baffle

- Molded of high impact styrene
- No speaker screws visible
- Will not chip or mar
- Ceiling or wall mounting

6A342B, 6A625A Flush Speaker Baffle

- Steel construction
- Simple lines that blend with modern interiors
- Epoxy finish will not chip or mar (6A342B)
- No speaker screws visible (6A625A)

6A633, 6A634, 6A630, 6A635, 6A636 Speaker Baffle Assembly

- Speaker-matching transformer for either 25-Volt or 70-Volt line
- Reduced installation time and cost through pre-assembly
- High impact styrene baffle (6A630, 6A635, 6A636)
- Volume control (6A635 - recessed; 6A636 - exposed)

6A650 Speaker Baffle Assembly

- 25 and 70-Volt line operation
- Brushed aluminum or white steel speaker baffle
- Low mounting profile
- Additional whizzer cone for extended frequency response

6A603 Sound Masking Speaker Assembly

- Excellent low frequency response and reflection patterns
- Flame retardant cones
- Defined rectangular sound pattern
- Dual voltage transformer with variable power taps

6L100 Special Purpose Baffle

- Bi-Directional Radiation
- Ideal Corridor Baffle
- Sturdy Construction



6A338

Descriptions

6A328, 6A335, 6A338, 6A342B, 6A625A Flush Speaker Baffles

These models are ideally suited where flush speakers are required in classrooms, lobbies, stores, restaurants, and other commercial and educational establishments.

6A633, 6A634 and 6A630 Speaker Baffle Assemblies

These units consist of a Model 5A606 loudspeaker with 25 Volt or 70Volt Speaker Line transformer. These assemblies are especially well suited for use in the classroom, small meeting rooms and other areas. Mounting hardware is furnished, and preassembly reduces time and expense.

6A650 Speaker Baffle Assembly

The 6A650 are high quality speaker, transformer, and speaker baffle assemblies. The loudspeaker has an additional speaker cone for extended high frequency response. The speaker baffle, constructed of steel, has simple, tasteful lines that blend well with all modern interiors. The assembly includes a dual voltage 70- and 25-volt matching transformer. The transformer has taps of 1/2, 1, 2, and 4 watts at 70 volts, and 1/2, 1, and 2 watts at 25 volts. Quality reproduction provides for use in many installations.

6A635, 6A636 Speaker Baffle Assembly With Volume Control

The Model 6A635 and 6A636 Speaker Baffle Assemblies with Volume Control each provide a complete speaker baffle assembly with a self-contained control for individual speaker volume adjustment. This assembly, with a speaker providing a low level, wide frequency range,

is ideal for music and/or paging systems in offices or other applications where individual, variable volume levels are required. Model 6A635, the volume control is recessed, screwdriver adjustable to discourage unauthorized adjustment. Model 6A636, the volume control is exposed for convenient adjustment. A complete speaker baffle assembly means the assembly includes a transformer compatible with either 25V or 70V speaker lines. The baffle finish will accept any good latex paint to match the mounting surface where required. The preassembly of speaker, baffle, and transformer reduces installation time and cost.

6A603 Sound Masking Speaker

The Model 6A603 Sound Masking Speaker is scientifically designed for sound masking applications in shallow depth or limited plenum areas. Dual 5-inch (12.7 cm) high efficiency speakers are mounted on a folded aluminum baffle designed to maximize low frequency response from a minimum height installation dimension. Unlike most contemporary assemblies, the 6A603 is not hampered by "hot spots" directly below the speaker units, since its innovative design employs the bottom surface of the baffle as a highly effective acoustic shield. This assembly is designed for use in areas where the plenum area height is 36 inches (91.4 cm) or less. If the plenum area exceeds this height, Sound Masking Speaker Assembly Model 6A530B should be used.

Baffles, Back Boxes and Transformers

Speaker Baffles

6A328, 6A338, 6A342B, 6A530B, 6A603, 6A625A, 6A630, 6A633, 6A634, 6A635, 6A636, 6A650 and 6L100

Specifications

6A603 Sound Masking Speaker Assembly

Construction	0.032" (.81 mm) aluminum
Response Pattern	9' by 23' (2.7 m x 7 m) rectangle (approx.) at least 200 square feet (18 sq. m)
Sensitivity	97.5dB at average 1/3 octave readings between 200Hz and 400Hz at 3.3" (1 m) and .5W per speaker
Mounting	"S" hooks for suspending assembly from chains; plastic foam strips on bottom of each end for resting baffle on ceiling
Finish	Natural aluminum
Dimensions	12" by 25" x 6" (30.5 cm x 63.5 cm x 15.2 cm)
Weight	4-1/2 lb (2 kg)

6A530B Background Sound Masking Speaker Assembly

Sensitivity	96 dB average 1/3 octave readings between 200 and 4000 Hz at 1 meter and 0.5 watts/speaker
Construction	20 gauge steel
Cubic Content	0.8 feet (241 mm)
Finish	Flat black
Terminations	Pigtails
Mounting	"S" hooks and chain (chain not supplied with unit)
Dimensions	13" (5.16 cm) wide, 11-3/4" (4.66 cm) high, 19" (7.54 cm) long. (Prism shaped.)
Weight	15 pounds (6.75 kg)

6L100 Corridor Baffle

For Speakers	Dukane 8" (20.3 cm) speakers
Finish	Brushed, satin-finished aluminum
Net Weight	2 lb (900 g)
Dimensions	4" (10.2 cm) by 4" (10.2 cm)
Backbox Required	4" (10.2 cm) by 4" (10.2 cm) standard outlet box

Flush Speaker Baffles	6A338	6A342B	6A625A	6A328
Speakers	For use with speakers 5A606 or 5A607			
Recommended Backbox Number	145-226 or 8A301			145-222 or 145-223
Finish	Solid white	22 gauge, cold-rolled steel, embossed with "Dukane," finished with a baked-on white powdered epoxy		Flat White
Suspended Ceiling Support Channel	677-67			
Net Weight	7.5 oz (210 g)	20 oz (560 g)	13 oz (364 g)	36 oz (1021 g)

Speaker Baffle Assembly	6A650	6A635, 6A636 (with volume control)
Speaker Diameter	8" (20.3 cm)	8" (20.3 cm) PM type
Overall Dimensions	12-7/8" (32.7 cm) diameter, 3" (7.6 cm) deep	12-5/8" (32.1 cm) in diameter, 3-1/4" (8.3 cm) deep
Frequency Range	30 to 20,000Hz	-
Frequency Response	—	90-15,000Hz
Finish	Cold rolled 22 gauge steel, embossed with "Dukane," finished with a baked on white powdered epoxy	Cadmium plated with solid white, molded, high impact styrene baffle
Control	—	Potentiometer, 50W, wire wound
Power Rating	15W normal, 25W program	8W normal, 12 W program
Terminations	Transformer leads	—
Voice Coil Impedance	8 Ohms	
Transformer Taps	25V: 1/2, 1, and 2W; 70V: 1/2, 1, 2, and 4W	
Voice Coil Diameter	1" (2.5 cm)	3/4" (2 cm)
Net Weight	2 lb, 12 oz (1.2 kg)	2 lb, 12.5 oz (1.3 kg)
Magnet Assembly	10 oz (283 g), ceramic	4.8 oz (134 g), ceramic
Associated Equipment	145-226 Backbox 677-67 Suspended Ceiling Support Channel	
Axial Sensitivity	95dB (1 m [3.3 ft]/1W)	91dB at 1 m (3.3 ft)/ 1W input

Baffles, Back Boxes and Transformers

Speaker Baffles

6A328, 6A338, 6A342B, 6A530B, 6A603, 6A625A, 6A630, 6A633, 6A634, 6A635, 6A636, 6A650 and 6L100

Speaker Baffle Assembly	6A634	6A630	6A633
Speaker	5A606	5A606	5A606
Baffle	6A342B	6A338	6A328
Baffle Finish	Steel coated with baked-on white powdered epoxy	Solid white, molded, high impact styrene	Steel painted flat white
Baffle Assembly Net Weight	3 lb, 8 oz (1.6 kg)	2 lb, 11 oz (1.2 kg)	4 lb, 8 oz (2 kg)
Recommended Backbox Number	145-226		145-222 or 145-223

Ordering Information

Model	Description
6A328	Flush (wall or ceiling) square speaker baffle, 12 1/2 inch square, white.
6A338	Flush (wall, ceiling) Speaker Baffle, 12-5/8 in. (32.1 cm) dia. White.
6A342B	Flush Speaker Baffle, 12-7/8 in. (32.7 cm) dia. White.
6A625A	Flush Speaker Baffle, 12-3/4 inches (32.4 cm) in diameter. White.
6A634	Speaker Baffle Assembly, Steel coated with baked-on white powdered epoxy
6A630	Speaker Baffle Assembly, Solid white, molded, high impact styrene
6A633	Speaker Baffle Assembly, Steel painted flat white
6A635	Speaker Baffle Assembly with recessed volume control
6A636	Speaker Baffle Assembly with volume control knob
6A650	Speaker Baffle Assembly
6A603	Sound Masking Speaker Assembly
6L100	Corridor Baffle, brushed, satin-finished aluminum. No back box required.

Baffles, Back Boxes and Transformers

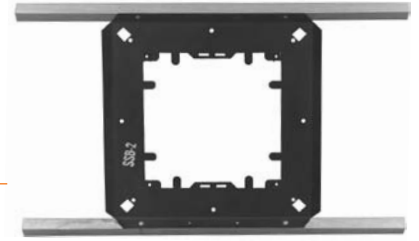
Speaker Backbox

677-67

The Edwards speaker support bridge is a universal loudspeaker mounting device that eliminates tile sag caused by the weight of the installation on suspended ceilings and reduces the required installation time. The support bridge eliminates the need for stocking different mounting devices to match various baffle and backbox configurations. The bridge accepts most of the industry's popular round or square baffles with or without most backboxes, and any 8-inch torsion spring baffle with most round backboxes. The design of the Model 677-67 bridge makes installation faster and easier than other bridges. Locating tabs on the center plate simplify positioning of the loudspeaker on the ceiling and prevents the bridge from moving during installation. In addition, the bridge mounts with an easy to cut square ceiling hole, rather than the round hole required for most other bridges. The hole dimension is well within the baffle dimension, so even a miscut mounting hole will be completely hidden by the baffle. The unique design of the bridge permits nesting of the bridges for reduced storage space and easier handling.

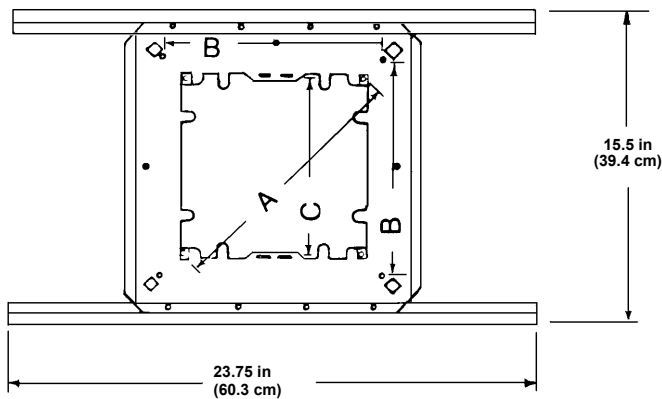
Features and Specifications

- Universal loudspeaker mounting device
- Eliminates tile sag
- Makes speaker installation faster and easier



Specifications	
Material	22-gauge galvanized steel
Net Weight	1-1/2 lb (0.7 kg)
Finish	Durable protective coating
Mounting Bridge Dimensions	23.75 (60.3 cm) long; 15.5 (39.4 cm) wide
Mounting Options Dimensions (see diagram)	A. Four J-nuts #8-32 bolts required

Ordering Information	
Model	Description
677-67	Speaker Support Bridge



Baffles, Back Boxes and Transformers

Speaker Transformers

710-3090, 710-3092



Photo Not Available

The 710-3090 and 710-3092 Speaker Matching Transformers are professional sound, quality transformers which have operating characteristics to match the best sound systems being manufactured today. Model 710-3090 is furnished with 7-inch (17.8 cm) color-coded leads for easy installation with twist nuts or solder. The high quality, grain-oriented laminations permit a flat response, within ± 1 dB, at full output over the range of 50- to 15,000Hz. Distortion is less than 1 percent, and insertion loss is less than 2.0dB.

Features and Specifications

710-3090 Speaker Matching Transformer

- Excellent frequency response
- Very low distortion
- Complete range of power
- 70-Volt line

710-3092 Speaker Matching Transformer

- Excellent frequency response
- Very low distortion
- 70- And 25-volt lines
- High efficiency at all wattage taps

Engineers' Specification for 710-3092

25-Volt Distribution Line

Watts	Primary	Secondary (8 Ohms)
1/2	Red & Blk	Blk & Wht
1	Blue & Blk	Blk & Wht
2	Yellow & Blk	Blk & Wht

70-Volt Distribution Line

Watts	Primary	Secondary (8 Ohms)
1/2	Red & Blk	Blk & Wht
1	Blue & Blk	Blk & Wht
2	Yellow & Blk	Blk & Wht
4	White & Blk	Blk & Wht

Specifications

710-3090 Speaker Matching Transformer

Primary Taps (70.7V Line)	8, 4, 2, 1, and 1/2W
Dimensions	2-5/16" (5.9 cm) high, 1-15/16" (4.9 cm) wide, 1-5/8" (4.1 cm) deep
Secondary	8 Ohms
Mounting Holes	2-3/8" (6.0 cm) center to center, 0.187" (4.7 mm) diameter
Insertion Loss	1.2dB or less
Terminations	Color-coded leads, 7" (17.8 cm) Leads also identified on transformer coil
Frequency Response	50Hz to 15,000Hz ± 1.5 dB
Weight	1 lb (0.45 kg)
Distortion	Less than 1%

710-3092 Speaker Matching Transformer

Speaker Line Voltage	70V or 25V
Mounting Holes	2" (50.8 mm) center to center, 0.187" (4.7 mm) diameter
Capacity	2W (25V), 4W (70V)
Terminations	Color-coded leads, 1/2" stripped and tinned
Secondary	8 Ohms (nominal)
Taps Finish	Cadmium plate
Frequency Response	100Hz to 10,000Hz ± 2 dB
Dimensions	1-7/16" (3.7 cm) high, 2-13/32" (6.1 cm) wide, 1-9/16" (3.9 cm) deep
Insertion Loss	2.0dB or less
Weight	6 oz (170 g)

Ordering Information

Model	Description
710-3090	Speaker Matching Transformer
710-3092	Speaker Matching Transformer



EDWARDS