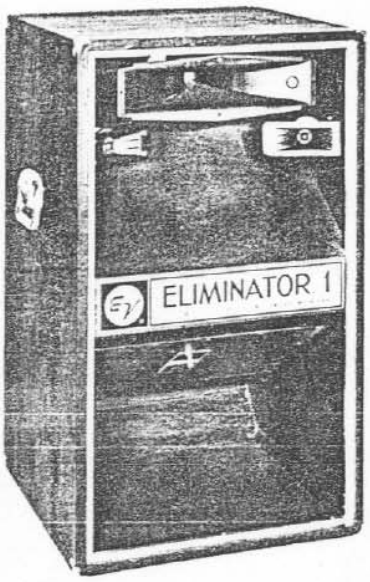


DESCRIPTION

Electro-Voice Eliminator ™ speaker systems usher in a new era in performance of efficient, high-power-handling speakers. By use of the specially designed crossover system, mids and highs are peak-free and smooth. Through the use of an efficient low-frequency transducer, coupled to a 55 Hz exponential horn, an extended low end capable of handling very high power levels is achieved. This combination makes possible extremely high audio level, high quality, full-range sound reinforcement and playback.

At the low end of the frequency spectrum, the Eliminator utilizes a musical instrument speaker known for its ruggedness and efficiency. In fact, there is no musical instrument, broadcast, or high fidelity low-frequency transducer that is more efficient than the Eliminator's SRO/15. By coupling to a 55 Hz folded, exponential horn, a 4 db increase in efficiency over the already efficient SRO/15 is achieved. (This is equivalent to multiplying existing amplifier power by a factor of 2.2 within the frequency range involved.) Additionally, by optimum loading of the SRO/15 at the lowest frequencies, the effective power handling capacity of the system is expanded over a wider frequency range. Also, due to good loading, the cone travel at low frequencies is reduced to 50% of that in conventional bass reflex designs for a given power radiated. This reduces low-frequency distortion by allowing the cone to remain in controlled linear travel at nearly all times.

POWER HANDLING CAPACITY

In an effort to provide a meaningful power rating, the frequency spectrum of the lead guitar in several prominent groups was band-analyzed. A filter was designed that would shape white noise (a sound similar to between-station FM radio noise, consisting of all frequencies from 20 to 20,000 Hz simultaneously) to the typical lead guitar spectrum. The electric guitar frequency spectrum is far more demanding at the frequency extremes than voice or conventional music program material. The filtered white noise was fed into the system at various levels to determine the power handling capacity.

APPLICATIONS

The Eliminator 2 is a two-way system designed specifically for the highest level and power handling requirements. It is ideal for the stringent performance requirements of Acid Rock groups and other equally demanding applications where extremely high power is delivered to the high end components. The ruggedly built Eliminator 2 achieves a sound pressure level of 123 db (measured on axis 4-feet from speaker) and is capable of handling more punishment than any other speaker system offered to today's musician. The system will handle 100 watts continuous RMS power of white noise shaped to the lead guitar spectrum.

The Eliminator 1 is a three-way speaker system using the same low end and midrange components as the Eliminator 2 . It has been designed especially for high level, wide-range sound reinforcement and recorded music reproduction. Utilizing two special very-high-frequency compression drivers and horns, the Eliminator 1 offers a smooth, extended frequency response past 15,000 Hz. The Eliminator 1 will handle 100 watts continuous RMS power of white noise shaped to the lead guitar spectrum.

Both systems offer flexibility of sound. In order to cope with the various acoustic conditions under which the Eliminator may be used, as well as to provide flexibility for listener preference, equalization controls are provided. The Eliminator 2 offers a two-position switch that boosts the midrange frequencies (from 800 to 2,000 Hz)

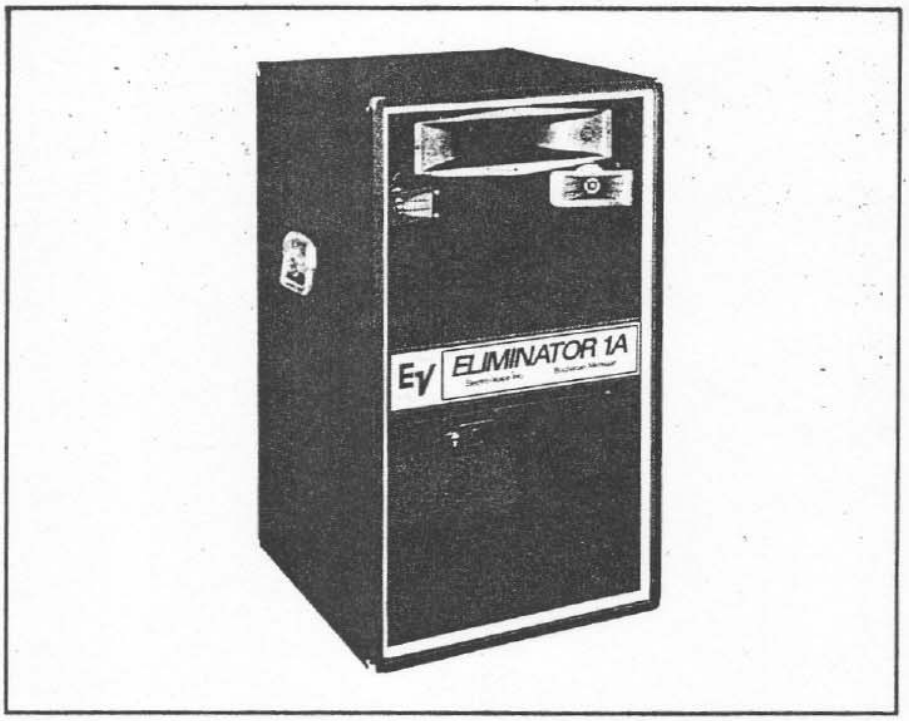
by approximately 3 db. The three-way Eliminator 1 provides a continuously-variable level control for the high-frequency drivers as well as the two-position mid-range control.

Both systems offer ruggedly built enclosures in black vinyl. They are complete with metal corners and carrying handles and are suitable for permanent or temporary installation. (Handles make the Eliminators semi-portable, and castors may easily be affixed to add even greater portability.)

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The speaker system shall be ruggedly constructed and covered with black vinyl. It shall be complete with metal corners on the enclosure and one carrying handle on each side, suitable for permanent or temporary installation. The bass speaker shall be effectively coupled to a folded exponential horn for maximum efficiency. The folded horn shall be front loaded with the rear of the speaker coupled to a sealed air cavity to provide less distortion and wider frequency response. The bass speaker shall be an SRO/15 musical instrument loudspeaker. A midrange horn shall be provided to give smooth frequency response to 10,000 Hz. (Using two additional very-high-frequency compression-drivers and horns, the Eliminator 1 shall have an extended smooth frequency range to 15,000 Hz.) Dispersion shall be 100°. (Eliminator 1 shall have 100° or better dispersion past 15,000 Hz.) EIA pressure rating shall be 57 db. (Eliminator 1, 56 db) Power handling capacity for both units shall be 100 watts.

Nominal impedance shall be 11 ohms. Electrical crossover shall be at 800 Hz. (Eliminator 1, 800 Hz and 3,500 Hz). Sound pressure level shall be 123 db (Eliminator 1, 122 db). Dimensions shall be 37½" high by 22½" wide by 23-1/8" deep. Weight shall be 112 pounds (Eliminator 1, 118 pounds). The Electro-Voice Eliminator 2 (Eliminator 1) is specified.



Electro-Voice®
a gulton company

Eliminator™ 1A/2A
High Powered Wide Range Speaker Systems

GENERAL SPECIFICATIONS

Usable Frequency Response,
Eliminator 1A:
45 to 14,000 Hz
Eliminator 2A:
45 to 9,500 Hz
(see Figure 1)

Sound Pressure Level
10 Feet, 1 Watt input:
97 dB
4 Feet, 100 Watts input:
125 dB

Long-Term Average Power Capacity (100 Hours)
100 watts
(28.3 volts RMS applied to nominal 8-ohm impedance, shaped random noise input)

Efficiency, Half-Space Environment
20%

Nominal Impedance
8 ohms

Minimum Impedance
8 ohms

Horizontal and Vertical Beamwidth (6-dB-down)
Eliminator 1A:
85° (±15°, 1 - 16 kHz octave bands)
Eliminator 2A:
85° (±15°, 1 - 4 kHz octave bands)
(pink noise input; see Figure 3)

Crossover Frequencies
Eliminator 2A:
800 Hz

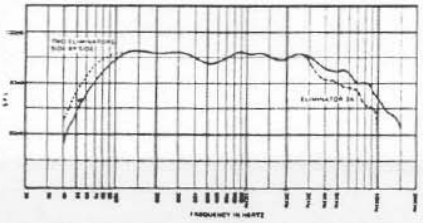
System Components
Eliminator 1A:
EVM™ 15B (bass), 8HD & 1823M (midrange), and two T35 (high frequencies)
Eliminator 2A:
EVM - 15B (bass), 8HD & 1829 (midrange and high frequencies)

Finish
Black vinyl

Size
57.2 cm (22½ in.) W x 58.7 cm (23-1/8 in.) D x 95.2 cm (37½ in.) H

Net Weight
Eliminator 1A:
54.5 kg (120 lb)
Eliminator 2A:
51.8 kg (114 lb)

Shipping Weight
Eliminator 1A:
73.6 kg (162 lb)
Eliminator 2A:
70.9 kg (156 lb)



DESCRIPTION

The newly improved Electro-Voice Eliminator speaker systems offer efficient, high-power-handling performance over a wide frequency range. Through the use of the EVM - 15B bass speaker, coupled to a 55 Hz exponential front-loaded horn, an extended low end capable of handling very high power levels is achieved. Additionally, mid and high frequencies are also covered by high-performance horn transducers. This combination makes the Eliminator systems very suitable for most demanding musical instrument, playback, and sound reinforcement systems.

The Eliminator 1A is basically the same as the Eliminator 2A except for the addition of two very-high-frequency compression drivers and horns for extended high-frequency response and significantly greater high-frequency dispersion. The Eliminator 1A should be used when the most accurate reproduction is desired.

Both systems offer ruggedly built enclosures covered with durable black vinyl. They are complete with metal corners and carrying handles that make them suitable for permanent or

AXIAL FREQUENCY RESPONSE

The frequency response (Figure 1) shows how on-axis sound pressure levels varies with frequency, with mid and high-frequency controls set at maximum. Low-frequency response and efficiency will be increased if two or more Eliminators are placed side-by-side and located near reflecting surfaces, such as the floor. The increased low-frequency output for two systems placed on the floor is indicated on the response curve by the dotted line.

FREQUENCY RESPONSE CONTROL

In order to cope with the various acoustic conditions under which the Eliminator may be used, as well as to provide flexibility for listener's preference, equalization controls are provided. The Eliminator 2A offers a two-position switch that attenuates the midrange frequencies (from 800 to 2,000 Hz) by approximately 3 dB. The Eliminator 1A provides a continuously-variable level control for the high-frequency drivers as well as the two-position midrange control.

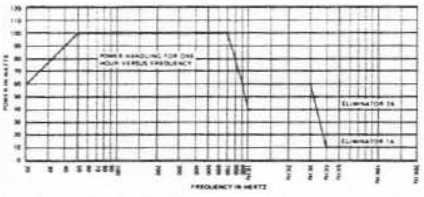


FIGURE 2 – Power Handling Chart (avg. sine-wave power, nominal 8-ohm load)

POWER HANDLING CAPACITY

In an effort to provide a meaningful power rating, the frequency spectrum of the lead and bass guitar was band-analyzed. A filter was designed to shape random noise (a sound similar to between-station FM noise, consisting of all frequencies from 20 to 20,000 Hz simultaneously) to a typical lead/bass guitar spectrum. This guitar frequency spectrum is far more demanding at the frequency extremes than voice or conventional music material yet is not as unrealistically demanding as unmodified white noise.

The shaped random noise, with 10 dB peak-to-average ratio, was fed into the system at various levels to determine the power handling capacity. This level was determined to be 100 watts for 100 hours minimum.

Figure 2 shows long-term (one hour) sine-wave power handling with relation to frequency. The graph is designed to be used to calculate power handling when unusual program sources with substantial high-frequency energy are anticipated. If, in the Eliminator 1A, the mid-band is attenuated by means of the switch, the mid-band long-term sine-wave power-handling capacity will be increased from 60 to 110 watts.

Keep in mind that the above power-handling specifications are for long term application of power. For peaks of a few milliseconds duration, the Eliminator will handle ten times (10 dB) the long-term rating. In the woofer range this figure would be 1000 watts.

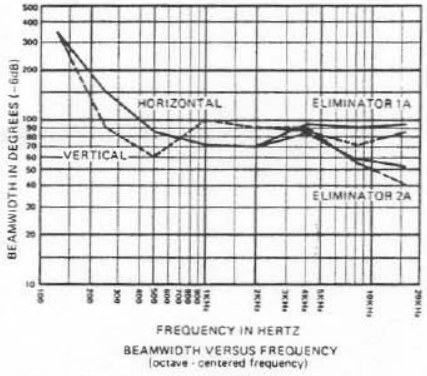


FIGURE 3 – Beamwidth versus Frequency (octave-centered frequency)

BEAMWIDTH AND SPEAKER AIMING

Most effective system use must be made by taking into account the dispersion angle of the system at different frequency segments. It is convenient to represent this information as a plot of dispersion angles versus frequency (Figure 3). The dispersion beamwidth angle is defined as the angle included by the points on the polar response where system output is 6 dB below the on-axis response. This information was obtained by running a set of horizontal/vertical polar responses in EV's large anechoic chamber, with octave bands of pink noise.

For highest acceptable quality and intelligibility, Eliminators should be located and aimed so that all listeners are within the rated beamwidth angles of all octave bands through 4 kHz. Highest quality will be achieved when listeners are located in the beamwidth angles in the 8 kHz and higher octave bands. Note that the Eliminator 1A provides the most uniform coverage at these higher frequencies.

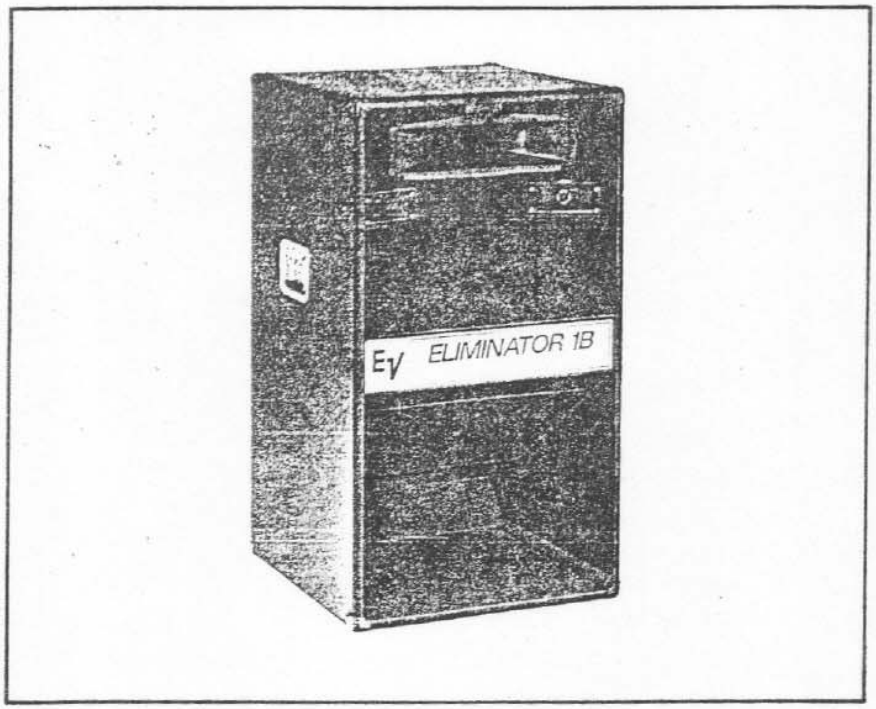
WARRANTY (Limited)

Electro-Voice Loudspeakers, Speaker Systems, and accessories are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, unit will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish or appearance items or malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For shipping address and instructions on return of Electro-Voice products for repair and locations of authorized service agencies, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (Phone: 616/695-6831).

Electro-Voice also maintains complete facilities for non-warranty service.

Service and repair address for this product: Electro-Voice, Inc., 600 Cecil St., Buchanan, Michigan 49107.



Electro-Voice®
a gulton company

Eliminator™ 1B/2B
High Powered Wide Range Speaker Systems

GENERAL SPECIFICATIONS

Usable Frequency Response,
- Eliminator 1B:
  - 45 to 15,000 Hz
- Eliminator 2B:
  - 45 to 10,000 Hz

Sound Pressure Level,
- 10 Feet, 1 Watt input:
  - 97 dB
- 10 Feet, 100 Watts input:
  - 121 dB

Long-Term Average Power Capacity (100 Hours)
- 100 watts
- (28.3 volts RMS applied to nominal 8-ohm impedance, shaped random noise input)

Efficiency, Half-Space Environment
- 20%

Nominal Impedance
- 8 ohms

Minimum Impedance
- 8 ohms

Horizontal and Vertical Beamwidth (6-dB-down)
- Eliminator 1B:
  - 90° nominal
- Eliminator 2B:
  - 90° nominal

Crossover Frequencies,
- Eliminator 1B:
  - 800 and 3500 Hz
- Eliminator 2B:
  - 800 Hz

Enclosure Type:
- Folded horn

System Components,
- Eliminator 1B:
  - EVM™-15B (bass), 8 HD & 1823M (midrange), and two T35 (high frequencies)
- Eliminator 2B:
  - EVM™-15B (bass), 8 HD & 1829 (midrange and high frequencies)

Finish:
- Painted mar resistant black

Size:
- 57.2 cm (22½ in) W x 58.7 cm (23-1/8 in) D x 95.2 cm (37½ in) H

Net Weight,
- Eliminator 1B:
  - 54.5 kg (120 lb)
- Eliminator 2B:
  - 51.8 kg (114 lb)

Shipping Weight,
- Eliminator 1B:
  - 73.6 kg (162 lb)
- Eliminator 2B:
  - 70.9 kg (156 lb)

DESCRIPTION

The newly improved Electro-Voice Eliminator speaker systems offer efficient, high-power-handling performance over a wide frequency range. Through the use of the EVM - 15B bass speaker, coupled to a 55 Hz exponential front-loaded horn, an extended low end capable of handling very high power levels is achieved. Additionally, mid and high frequencies are also covered by high-performance horn transducers. This combination makes the Eliminator systems very suitable for most demanding musical instrument, playback, and sound reinforcement systems.

The Eliminator 1B is basically the same as the Eliminator 2B except for the addition of two very-high-frequency compression drivers and horns for extended high-frequency response and significantly greater high-frequency dispersion. The Eliminator 1B should be used when the most accurate reproduction is desired.

Both systems offer ruggedly built enclosures painted a mar resistant black. They are complete with metal corners and carrying handles that make them suitable for road use. The user may affix casters for even greater portability.

POWER HANDLING CAPACITY

In an effort to provide a meaningful power rating, the frequency spectrum of the lead and bass guitar was band-analyzed. A filter was designed to shape random noise (a sound similar to between-station FM noise, consisting of all frequencies from 20 to 20,000 Hz simultaneously) to a typical lead/bass guitar spectrum. This guitar frequency spectrum is far more demanding at the frequency extremes than voice or conventional music material yet is not as unrealistically demanding as unmodified white noise.

The shaped random noise, with 10 dB peak-to-average ratio, was fed into the system at various levels to determine the power handling capacity. This level was determined to be 100 watts for 100 hours minimum.

Keep in mind that the above power-handling specifications are for long term application of power. For peaks of a few milliseconds duration, the Eliminator will handle ten times (10 dB) the long-term rating. In the woofer range this figure would be 1000 watts.

BEAMWIDTH AND SPEAKER AIMING

For highest acceptable quality and intelligibility, Eliminators should be located and aimed so that all listeners are within the rated beamwidth angles of all octave bands through 4 kHz. Highest quality will be achieved when listeners are located in the beamwidth angles in the 8 kHz and higher octave bands. Note that the Eliminator 1B provides the most uniform coverage at these higher frequencies.

Low-frequency response and efficiency will be increased if two or more Eliminators are placed side-by-side and located near reflecting surfaces, such as the floor.

Specifications subject to change without notice.

WARRANTY (Limited) –

Electro-Voice Speakers, Speaker Systems, and Accessories are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, unit will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish or appearance items or malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For repair information and service locations, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (Phone 616/695-6831) or 7473 Avenue 304, Visalia, CA 93277 (209/625-1330,-1).

Electro-Voice also maintains complete facilities for non-warranty service of E-V products.

Part Number 53229 – 702

a Gulton COMPANY ELECTRO-VOICE, Inc., 600 CECIL ST., BUCHANAN, MICH. 49107

MANUFACTURING PLANTS AT ■ BUCHANAN, MICH. ■ NEWPORT, TENN. ■ SEVIERVILLE, TENN. ■ GANANOQUE, ONT. ■ LITHO IN U.S.A.

SYM.	REVISIONS

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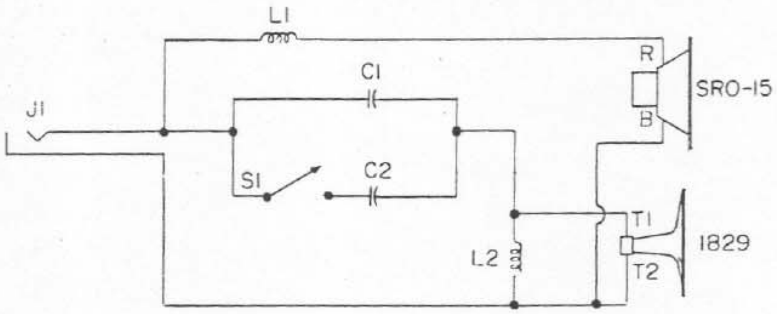


ELIMINATOR 2

ITEM	E.V. PART NO.	DESCRIPTION
J1	17180	SWITCHCRAFT, TYPE 151, JACK
S1	56106	SPDT, TOGGLE SWITCH
C1	42489	6 mfd, 100 V.
C2	4234	2.84 mfd, 50 V.
L1	35034	COIL, 1.6 mh
L2	35034	COIL, 1.6 mh
SRO-15	815-7737**	SPEAKER
1829	1629-7760	DRIVER
BND	A73203	HORN

** SRO-15 FOR ELIMINATOR IS SPECIAL UNIT. BE SURE WHEN ORDERING THROUGH DISTRIBUTOR TO USE E.V. PART NUMBER 815-7737.

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			
FRACTIONS	DECIMALS	ANGLES	CONCENTY
± .010	± .003	± 1/2°	.010 T. I. R.

• NOTES •
UNMARKED ANGLES & INTERSECTIONS 90°. REMOVE BURRS & EXPOSED SHARP EDGES. THREADS TO BE UNIFIED SERIES CLASS 2 AFTER PLATING UNLESS OTHERWISE SPECIFIED.

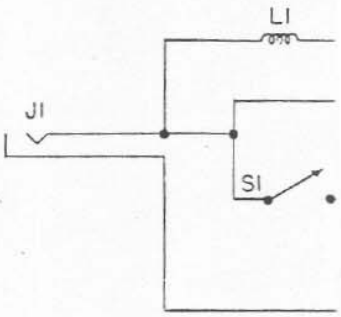
TITLE
ELIMINATOR 2
HOME BUILDERS PLANS

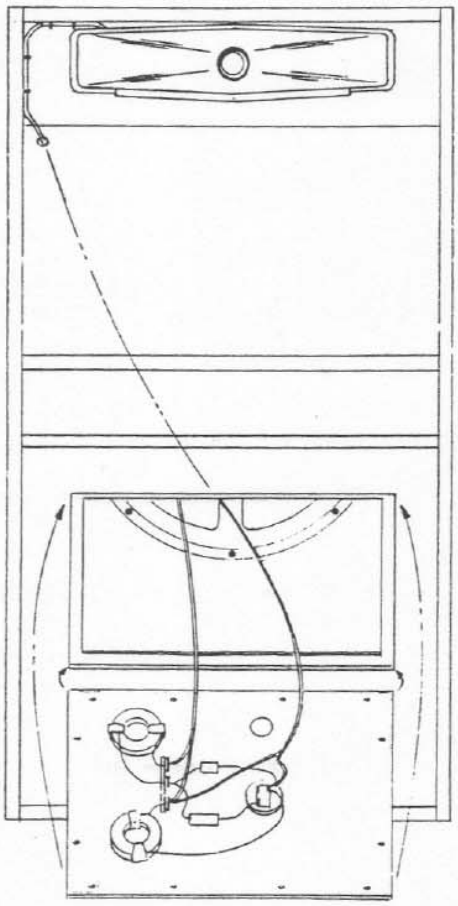
MATERIAL
END FINISH
HEAT TREAT — FROM & COND.

Electro
ELECTRO - VOI
BUCHANAN, MI
MODEL
CONTRACT OR CUSTOM

NOTES:

1. CROSSOVER NORMALLY ASSEMBLED ON AIR CHAMBER COVER.
2. SEAL AROUND ALL WIRES ENTERING AND EXITING AIR CHAMBER WITH CAULKING COMPOUND.
3. ITEMS WITH ASTERISK IN, "E.V. PRICE" COLUMN, MUST BE PURCHASED THROUGH AN E.V. DISTRIBUTOR. ITEMS WITH PRICES CAN BE ORDERED, BY PART NUMBER, DIRECTLY FROM ELECTRO-VOICE, INC., BUCHANAN, MICH., 49107, ATTN.; REPAIR DEPT. YOU WILL BE BILLED FOR PARTS COST.





ELIMINATOI

ITEM	E.V.
JI	
SI	
CI	
C2	
LI	
L2	
SRC-15	8I
1029	182
8HD	/

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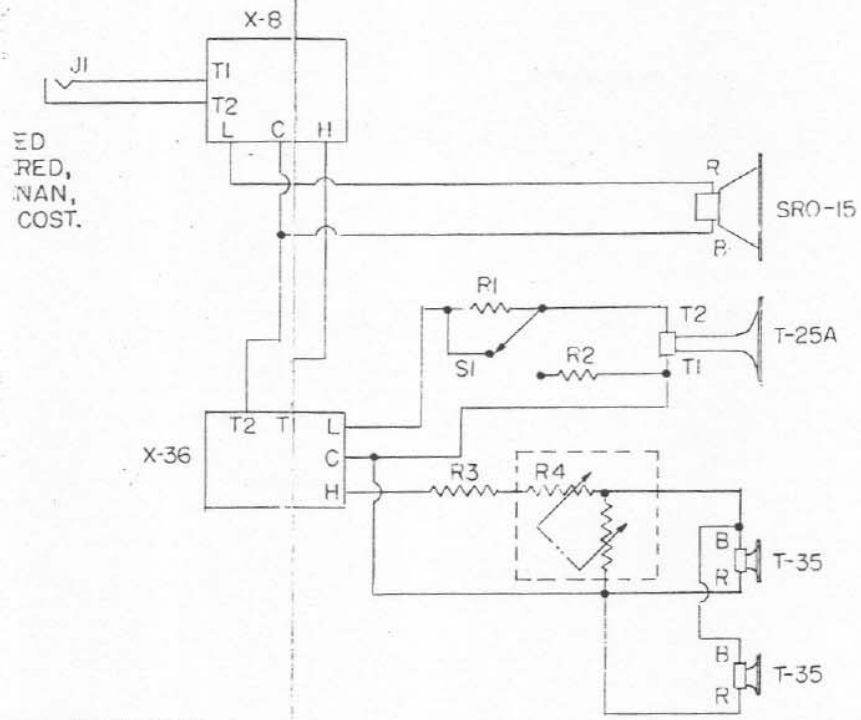
ORDERING THROUGH
815-7737.

SYM.	REVISIONS	DA



ELIMINATOR I

ITEM	E.V. PART NO.	DESCRIPTION
JI	17180	SWITCHCRAFT, TYPE 151, JACK
SI	56106	SPDT, TOGGLE SWITCH
RI	46526	5Ω, 25W, WW, WIRE LEADS
R2	46527	30Ω, 25W, WW, WIRE LEADS
R3	46525	7.5Ω, 10W, WW, WIRE LEADS
R4	46524	L-PAD, MALLORY L8A, 8Ω, 4W
SRO-15	815-7737 **	SPEAKER
T-25A	821-4677	DRIVER, MID-RANGE
T-35	824-7738	DRIVER, TWEETER
T-35	824-7738	DRIVER, TWEETER
X-8	863-7739	CROSSOVER
X-36	860-7740	CROSSOVER
BRKT.	72845 JD	TWEETER MOUNTING BRACKET
BRKT.	72845 JD	TWEETER MOUNTING BRACKET
BHD	A73205	HORN

** SRO-15 FOR ELIMINATOR IS SPECIAL UNIT. BE SURE WHEN ORDERING THROUGH DISTRIBUTOR TO USE E.V. PART NUMBER 815-7737.

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			
FRACTIONS	DECIMALS	ANGLES	CONCENT'Y
± .010	± .003	± 1/2°	.010 T. I. R.

• NOTES •
UNMARKED ANGLES & INTERSECTIONS 90°. REMOVE BURRS & EXPOSED SHARP EDGES. THREADS TO BE UNIFIED SERIES CLASS 2 AFTER PLATING UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING

A. Q. L. —— PRINT ISSUE DATE

TITLE
ELIMINATOR I
HOME BUILDERS PLANS

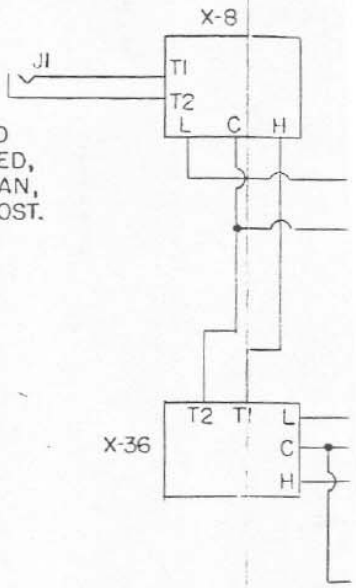
MATERIAL
END FINISH
HEAT TREAT —— FROM & COND.
DRAWN DAR DATE 6-21-69
CHECKED DATE
ENGINEER DATE

Electro
ELECTRO - V
BUCHANAN,

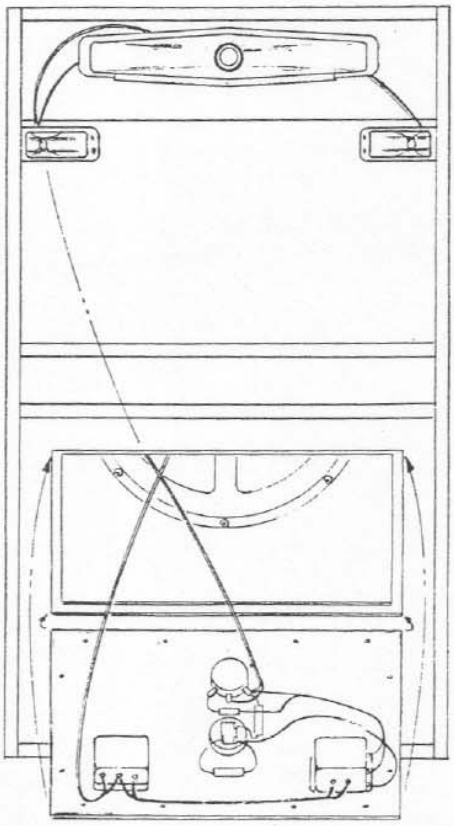
MODEL
CONTRACT OR CUST
SCALE NONE
PART 34

NOTES:

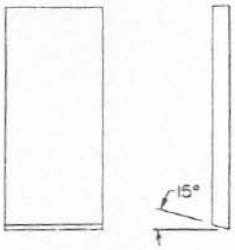
1. CROSSOVER NORMALLY ASSEMBLED ON AIR CHAMBER COVER.
2. SEAL AROUND ALL WIRES ENTERING AND EXITING AIR CHAMBER WITH CAULKING COMPOUND.
3. ITEMS WITH ASTERISK, IN "E.V. PRICE" COLUMN, MUST BE PURCHASED THROUGH AN E.V. DISTRIBUTOR. ITEMS WITH PRICES CAN BE ORDERED, BY PART NUMBER, DIRECTLY FROM ELECTRO-VOICE, INC., BUCHANAN, MICH., ATTN.; REPAIR DEPT. YOU WILL BE BILLED FOR PARTS COST.



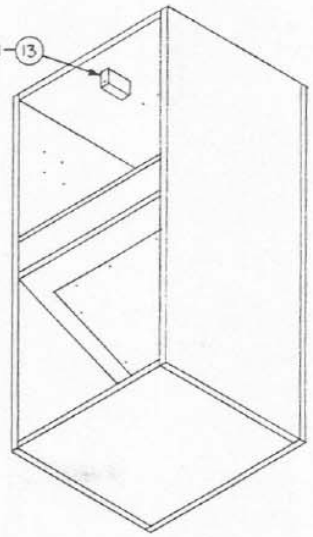
ELIMINATOR I

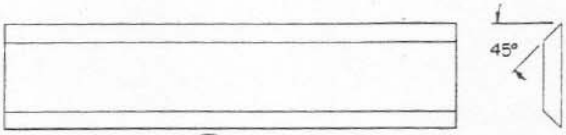


SYM	REVISIONS

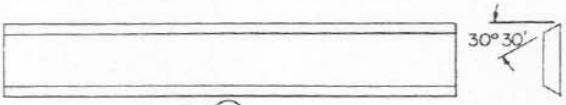


ITEM (9)





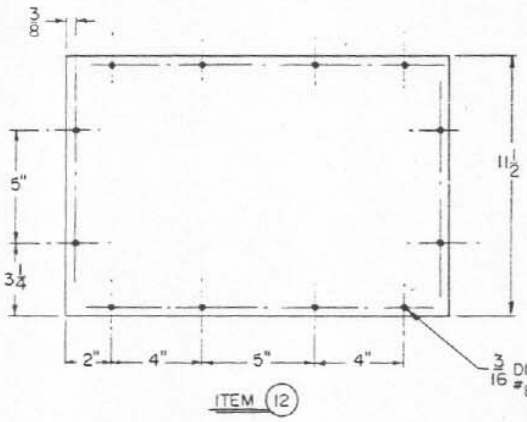
ITEM (10)



ITEM (11)

NOTES:

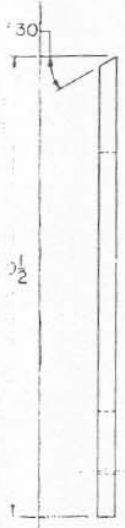
1. JOINTS TO BE SECURELY GLUED & NAILED WITH COAT
2. ALL JOINTS ON AIR CHAMBER MUST BE AIRTIGHT. QUES JOINTS SHOULD BE CAULKED FROM INSIDE WITH DOW "SILASTIC" OR EQUIVALENT.
3. HANDLES & FURNITURE GLIDES OR CASTERS TO BE AD BUILDERS OPTION.
4. AIRTIGHT SEAL BETWEEN ITEM 8 & 12 IS OBTAINED POLYURETHANE, CLOSED CELL, TAPE.

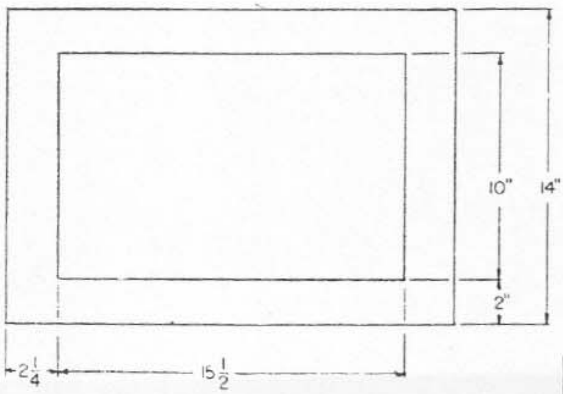


ITEM (12)

ALL PANELS TO BE MADE OF 3/4" THICK GRADE A-B OR BETTER

ITEM	SIZE	QUANT.	R
1	22" X 37"	2	SIDES
2	20" X 22"	2	TOP & B
3	21 1/2" X 37"	1	BACK
4	16" X 20"	1	SPEAKER
5	20" X 23 1/4"	1	BAFFLE
6	20" X 20 1/2"	1	AIR CHAM
7	20" X 20 1/2"	1	AIR CHAM
8	14" X 20"	1	AIR CHAN
9	4 1/4" X 9 7/8"	4	SIDE CLE
10	4 5/8" X 20"	2	RAMPS
11	3 1/4" X 20"	1	AIR CHAM
12	11 1/2" X 17"	1	AIR CHAM
13	1 1/2" X 3"	1	MOUNTING





ITEM (8)

A THRU (TO BE ON ITEM 7 ONLY)

ITEM 6. MOVE

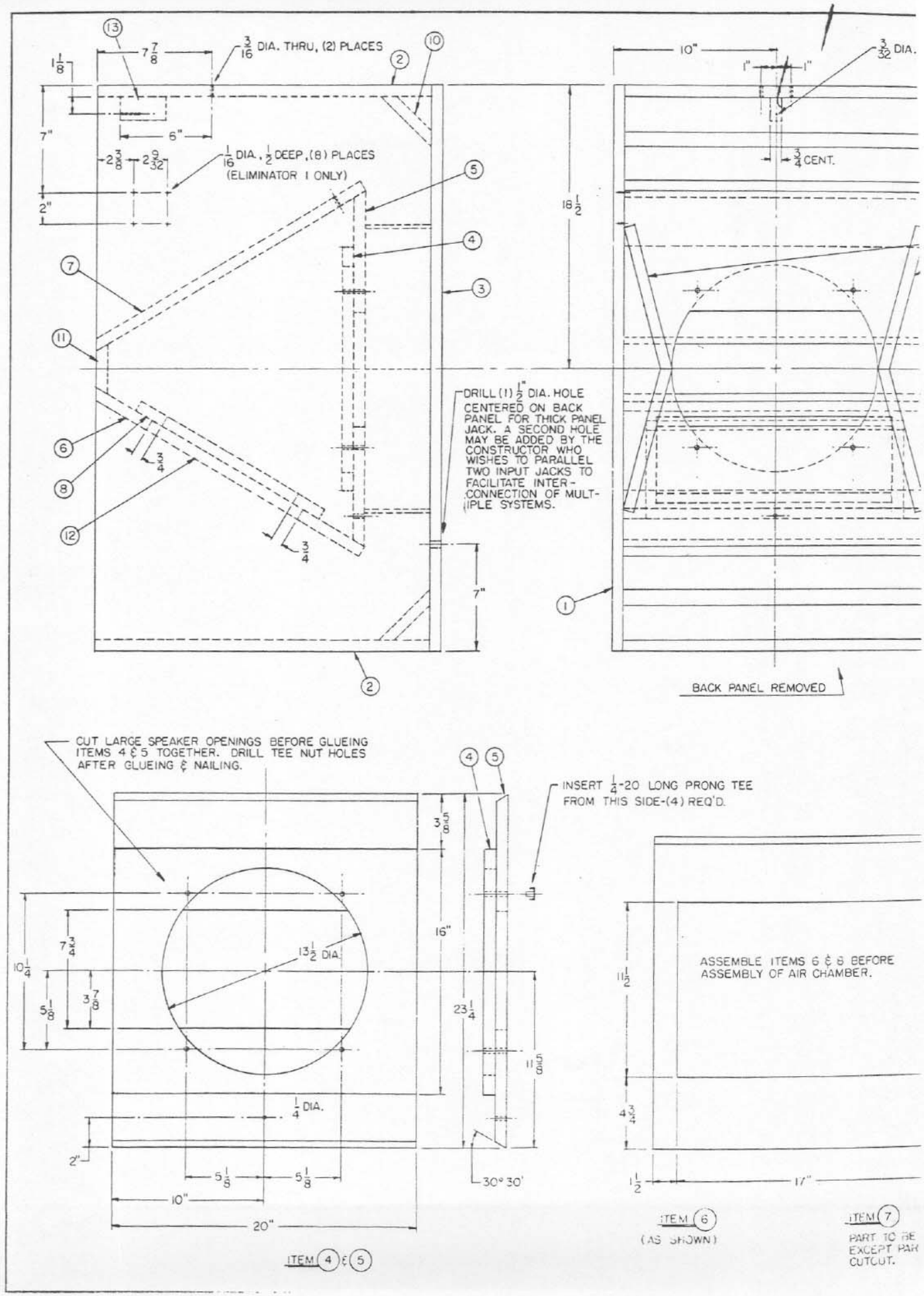
DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED			
FRACTIONS	DECIMALS	ANGLES	CONCENT Y
± 1/16	± .062	± 1/2°	.010 T. I. R.

• NOTES •
UNMARKED ANGLES & INTERSECTIONS 90°. REMOVE BURRS & EXPOSED SHARP EDGES. THREADS TO BE UNIFIED SERIES CLASS 2 ETCH OR STENCIL

TITLE
ELIMINATOR 1 & 2
HOME BUILDING PLANS

MATERIAL
END FINISH

Ela
ELECTR
BUCHA
MODEL


13
7 7/8
3/16 DIA. THRU, (2) PLACES
1 1/8
10
2
7"
6"
2 3/8
2 9/32
1/16 DIA., 1/2 DEEP, (8) PLACES
(ELIMINATOR I ONLY)
2"
5
4
3
7
11
6
8
12
3/4
3/4
18 1/2
7"
2
DRILL (1) 1/2" DIA. HOLE CENTERED ON BACK PANEL FOR THICK PANEL JACK. A SECOND HOLE MAY BE ADDED BY THE CONSTRUCTOR WHO WISHES TO PARALLEL TWO INPUT JACKS TO FACILITATE INTER-CONNECTION OF MULTIPLE SYSTEMS.
10"
1"
1"
3/32 DIA.
3/4 CENT.
1
BACK PANEL REMOVED
CUT LARGE SPEAKER OPENINGS BEFORE GLUEING ITEMS 4 & 5 TOGETHER. DRILL TEE NUT HOLES AFTER GLUEING & NAILING.
4
5
INSERT 1/4-20 LONG PRONG TEE FROM THIS SIDE-(4) REQ'D.
3 5/8
16"
10 1/4
7 3/4
13 1/2 DIA.
5 1/8
3 7/8
23 1/4
11 5/8
1/4 DIA.
2"
5 1/8
5 1/8
10"
20"
30° 30'
ITEM 4 & 5
ASSEMBLE ITEMS 6 & 8 BEFORE ASSEMBLY OF AIR CHAMBER.
11 1/2
4 3/4
1 1/2
17"
ITEM 6
(AS SHOWN)
ITEM 7
PART TO BE EXCEPT PAR CUTOUT.

Electro-Voice® SERVICE DATA

ELIMINATOR 1 & 2 SPEAKER SYSTEM

SPECIFICATIONS

Type of Enclosure:	Horn—Front Loaded
Dimensions:	21½" w. x 37" h. x 23" d.
Net Weight:	
Eliminator 1:	119 lbs.
Eliminator 2:	109 lbs.
Construction:	Fir Plywood
Crossover Frequencies:	800 Hz, 3500 Hz
Nominal Impedance:	11 ohms
Power Handling Capacity:	100 watts program (Lead guitar spectrum)
EIA Sensitivity:	
Eliminator 1:	56 dB
Eliminator 2:	57 dB
Sound Pressure Level:	
Eliminator 1:	122 dB
Eliminator 2:	123 dB

SERVICING

The Electro-Voice Eliminator 1 and 2 public address speaker systems have been carefully designed to assure maximum trouble-free service but with ease of repair if repairs are required.

WARRANTY

Electro-Voice public address loudspeakers, drivers, and loudspeaker accessories are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, the product will be repaired or replaced (at our option) without charge for materials or labor, if delivered to the proper Electro-Voice service facility. The unit will be returned prepaid. Warranty does not cover finishes or malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

The components of the Eliminator systems are field replaceable. It is suggested that defective components be removed from the Eliminator system and returned to Electro-Voice or one of its authorized service agencies. Factory or agency repair charges relate to the component(s) repaired or replaced. All prices are subject to change without prior notice. All prices quoted upon request. Send all price requests, parts orders and units requiring factory service to:

Electro-Voice, Inc.
600 Cecil Street
Buchanan, Michigan 49107
Attention: Repair Department

In Western States, units requiring factory service may be sent to:

Electro-Voice West
P. O. Box 3297
7473 Avenue 304
Visalia, California 93277
Attention: Repair Department

Units requiring service may also be referred to any one of the authorized Electro-Voice speaker repair stations. For further information contact the Electro-Voice repair department (616/695-6831).

SRO 15 / CROSSOVER SERVICING

1. Access to the Eliminator air chamber is made by removing the fourteen Baffle Screws (6) and lowering the crossover assembly. Check condition of the Tesamol strip (2) sealing the air chamber.

   Remove Fiberglass (13). CAUTION: When working with Fiberglass it is recommended that gloves, long sleeves and safety glasses be worn.

2. SRO/15 BASS SPEAKER
   - A. Unclip the wire leads from the speaker terminals: note coding and phasing.
   - B. Remove the four Baffle Wing Nuts (19) securing the bass speaker (11) and baffle board to the air chamber baffle. Remove the bass speaker and baffle board from the air chamber by working the assembly through the crossover cover opening. Check the Tesamol strip (27) sealing the baffle board.

3. CROSSOVER ASSEMBLY
   - A. Despite rigid quality control standards, occasional latent defects do appear. It is suggested that solder connections should be checked for good contact. The tweeter level control and midrange switch should be checked in relation to extended range speaker defects.
   - B. Crossover capacitors MUST be replaced with the metalized mylar type.
   - C. All wire wound resistors must be non-inductive type.

ADDITIONAL SERVICE NOTES

The name plate is secured to the cabinet (16) by an activated solvent. Use a MEK thinner (Methol ethyl keytone).

The air chamber cavity should be properly sealed to provide low distortion and wider frequency response. Critical points are the Tesamol stripping and wire harness openings. A good seal at these points should be ensured. A caulking compound is used around wire leads.

A loctite compound is used on the midrange driver threads to secure the 8HD horn. A rubber washer is not used.

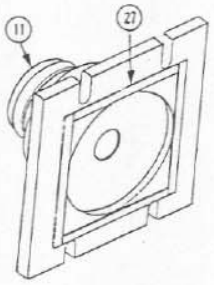
PROTECTIVE COVER: No protective cover is available for the Eliminator. A cover for this purpose may be made from Naugahyde.

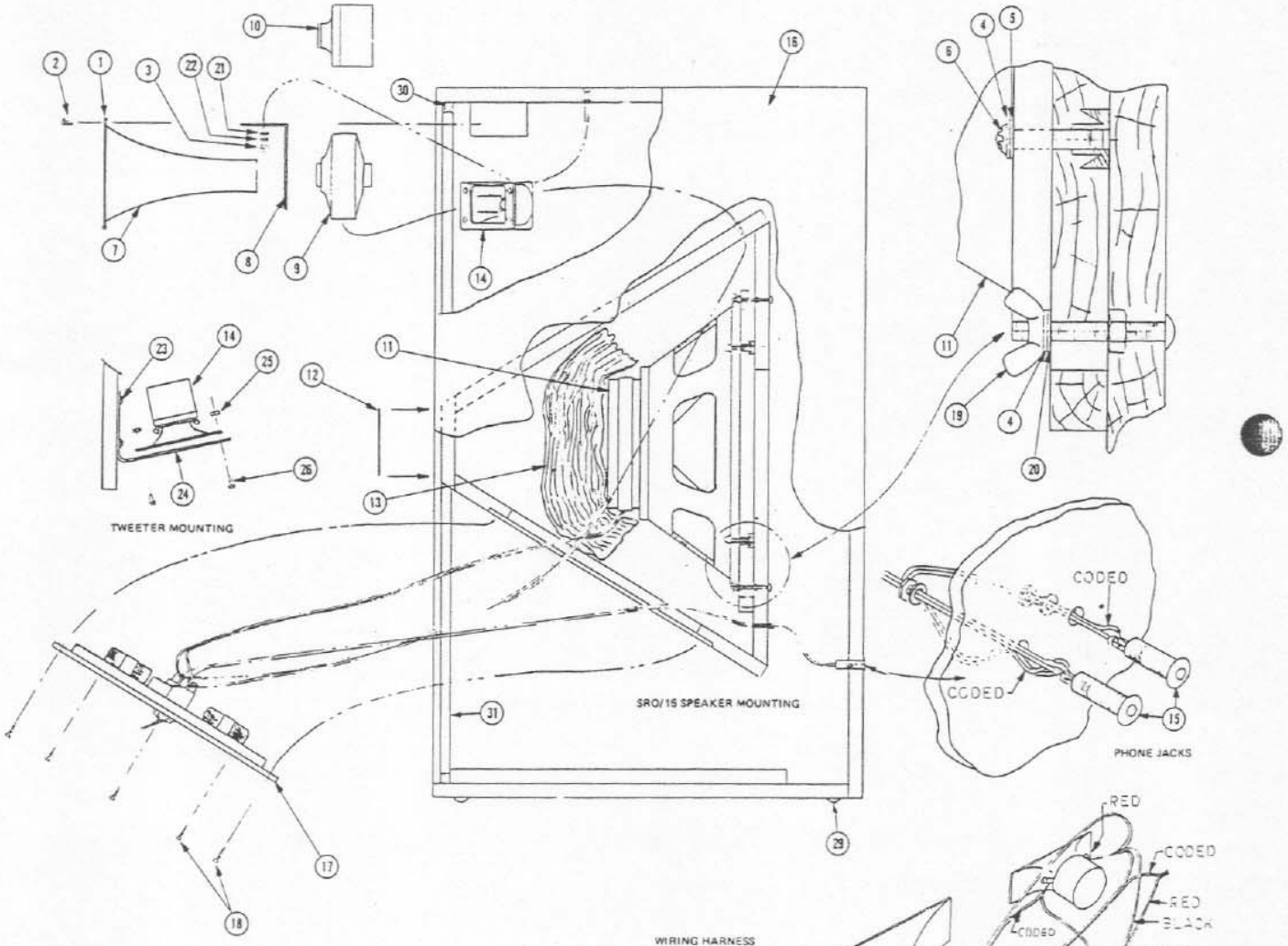
ACOUSTIC QUALITY CHECK

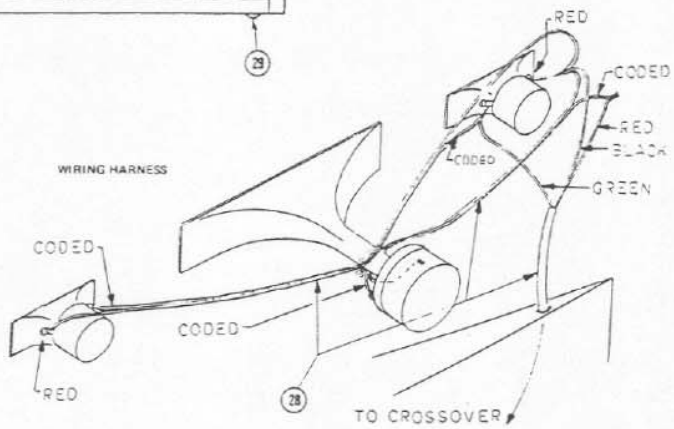
The acoustic quality of the Eliminator system may be checked by using an amplifier and an audio sweep generator. Apply 10 volts RMS (6 watts) and frequency sweep system 20–20,000 Hz. Check for rubs, buzzes, rattles or spurious noises. Rattles will occur below 800 Hz.

Check the midrange level switch by checking for a level change at 1000 Hz when it is switched.

Check the tweeter level control by checking for a level reduction at 10,000 Hz when rotated counterclockwise.







CABINET ASSEMBLY

PARTS LIST

REF NO.	PART NO.	DESCRIPTION
1	B28027	Rubber Channel (12½")
2	62544	Screw–MR horn (8-15 x 1¼)
3	20343-AP	Nut–Hex (10-32)
4	3830	Washer–Lock (¼)
5	4097-AY	Washer–Flat (¼)
6	B610220	Screw–Baffle (¼-20 x 1¼)
7*	A73203-JD	Horn (8HD)
8	7843-JD	Bracket–Mounting (8HD)
9*	1829-7760	Driver–1829 (Eliminator 2)
10*	821-4677	Driver–T25A (Eliminator 1)
11*	815-7737	SRO/15 Speaker (16 ohms)
12	48408	Nameplate (Eliminator 1)
12	A48408	Nameplate (Eliminator 2)
13	76060	Fiberglass (4" x 16" x 24")
14*	824-7583	Driver–T35 (Eliminator 1)
15	17180	Phone Jack
16†	85955	Cabinet Assembly
17	87716	Crossover Assembly (Eliminator 1)
17	85969	Crossover Assembly (Eliminator 2)
18	62755-CC	Screw–Phillips Wood (8-¾)
19	20136-AY	Wingnut (¼-20)
20	3999-AY	Washer–Flat (¼)
21	3975-AD	Washer–Flat (No. 10)
22	3998-AD	Washer–Lock (No. 10)
23	62778-CC	Screw–Hex Sheet Metal (No. 10 x ½)
24	A72845-JD	"L" Bracket (Eliminator 1)
25	20305-AD	Nut–Elastic Stop (8-32)
26	A60628-AD	Screw–Phillips Fill (8-32)
27	28039	Tesamol (5 Ft.)
28	85959	Interconnecting Cable Assy. (Eliminator 1)
29	20039	Furniture Glide (¾")
30	78405	Extrusion–Aluminum (19 inch)
31	78406	Extrusion–Aluminum (35½ inch)
	62132-AP	Screw-Aluminum Extrusion (6 x 1 Oval Phillips – Nickel)
	20038	Handle (Nickel)
	62787-AP	Screw–Handle (12 x 1 oval Phillips–Nickel)
	20037	Corner–Enclosure (Nickel)
	62295-AP	Screw–Corner (6 x ½ Rd. Hd. Phillips–Nickel)

PACKING PARTS

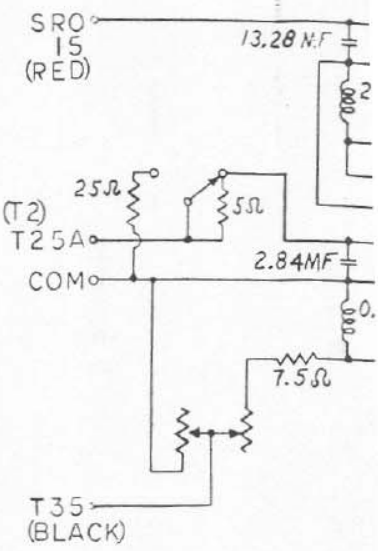
96858	Carton & Fillers
534673	Instruction Sheet
535103	Hang Tag

AVAILABLE INFORMATION

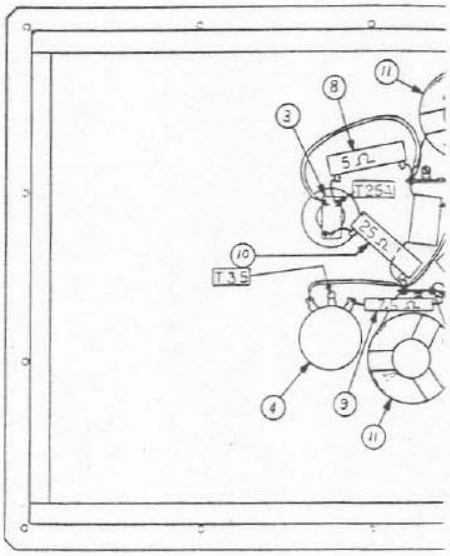
Form 1390	Service Data Sheet–1829 Driver
Form 1389	Service Data Sheet–T25A/T35
Form 1391	Service Data Sheet–SRO/15

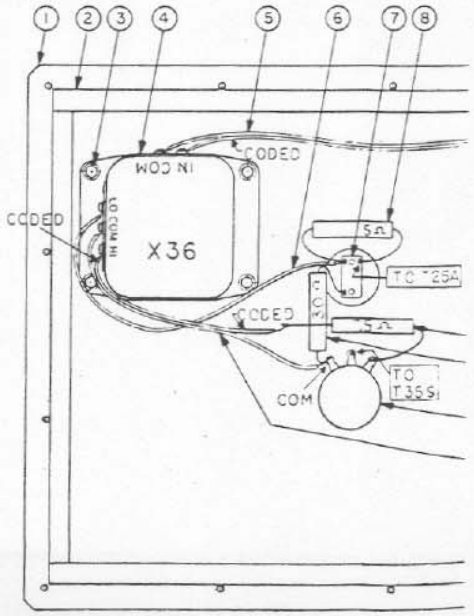
† The Eliminator cabinet assembly is only available as a replacement item. A damaged cabinet must be returned to Electro-Voice or one of its authorized service stations for replacement.

Items with Asterisk * in parts list may be obtained from E-V distributors.

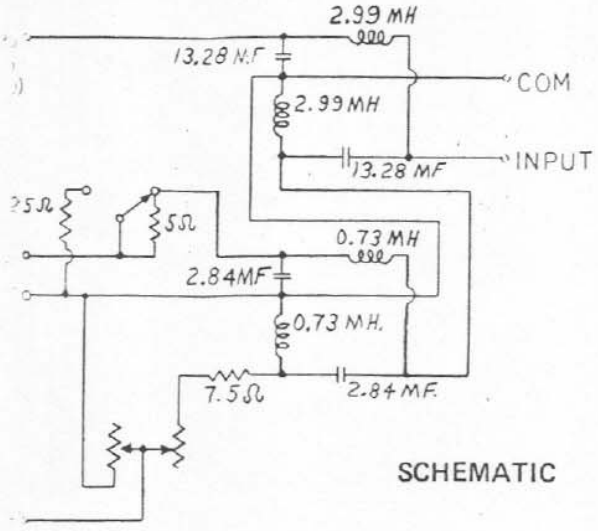


PICTORIAL 1





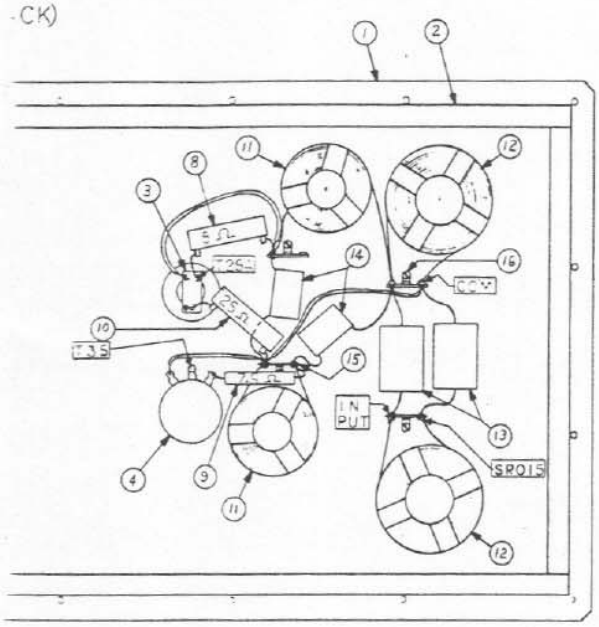
PICTORIAL 2



SCHEMATIC

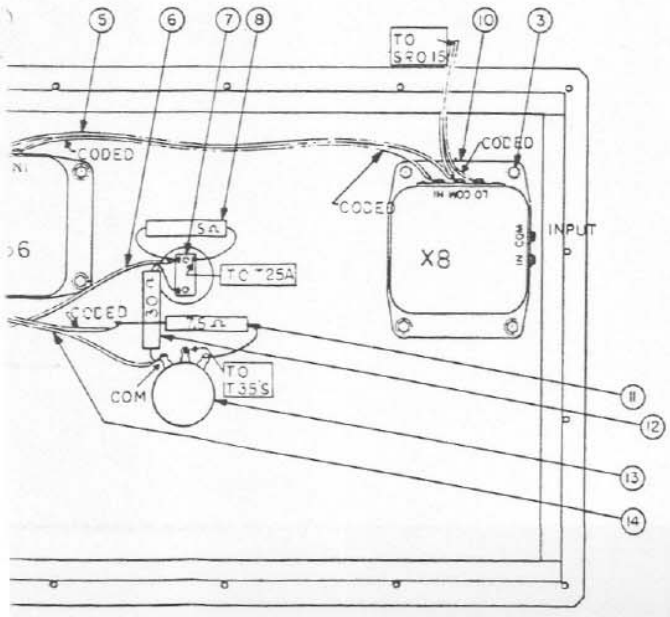
CROSSOVER NETWORKS
(Eliminator 1 PICTORIAL 1)

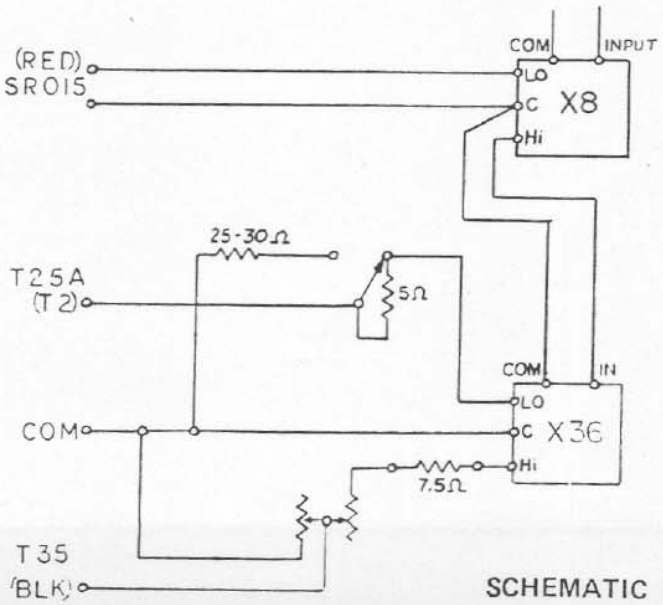
REF NO.	PART NO.	DESCRIPTION
1	87716	Crossover Assembly—Complete
2	28039	Tesamol (5 ft.)
3	56106	Switch—Toggle (SPDT)
4	46524	L-Pad 4W (Mallory L8A)
8	46526	Resistor—5Ω 20W (WW)
9	46525	Resistor—7.5Ω 10W (WW)
10	46527	Resistor—25/30Ω 20W (WW)
11	3575	Coil—0.73 mH (148 turns No. 18 Copper)
12	3525	Coil—2.99 mH (282 turns No. 18 Copper)
13	4217	Capacitor—13.28 μF/50V (Metalized Mylar)
14	4234	Capacitor—2.84 μF/50W (Metalized Mylar)
15	2717	Terminal Strip (3T)
16	62545	Screw—Hex (8 x ½)
	48411	Nameplate (Eliminator 1)
	38456	Lockwasher—Switch (½)
	20991	Knob—L-pad



(Eliminator 1 PICTORIAL 2)
(X8/X36 Employed)

REF NO.	PART NO.	DESCRIPTION
2	28039	Tesamol (5 ft.)
3	62545	Screw—Hex (8 x ½)
4*	860-7740	X36 Crossover (16 ohms)
7	56106	Switch—Toggle (SPDT)
8	46526	Resistor—5 Ω 20W (WW)
10*	863-7739	X8 Crossover (16 ohms)
11	46525	Resistor—7.5 Ω 10W (WW)
12	46527	Resistor—25/30 Ω 20W (WW)
13	46524	L-Pad 4 W (Mallory)
	48411	Nameplate (Eliminator 1)
	20991	Knob—L-Pad
	38456	Lockwasher—Switch (½)



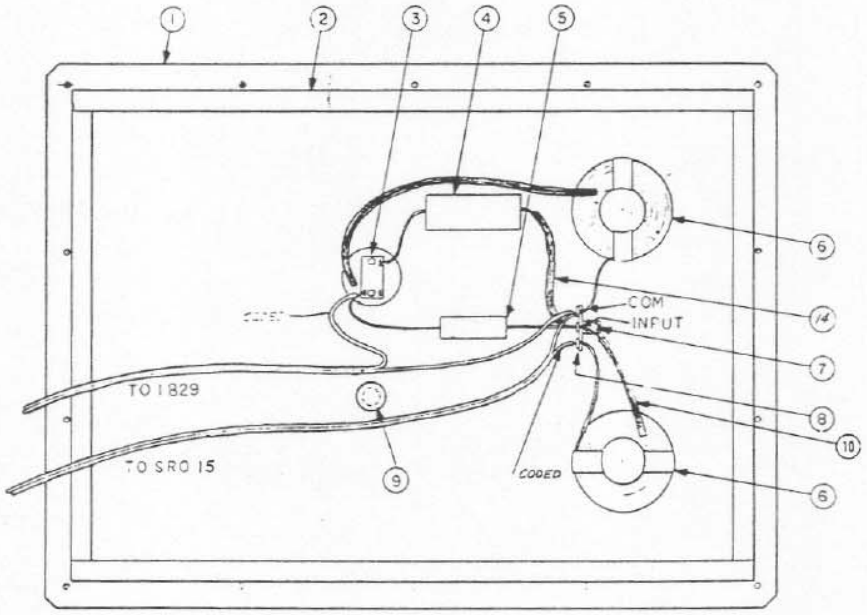


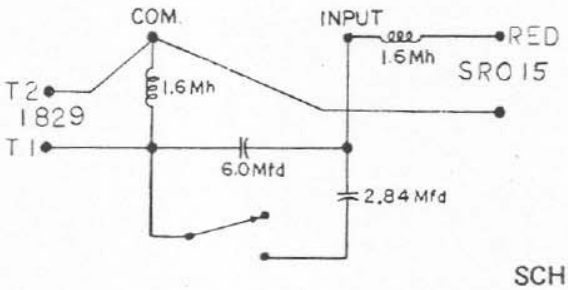
SCHEMATIC

(Eliminator 2 PICTORIAL 3)

REF NO.	PART NO.	DESCRIPTION
1	85969	Crossover Assembly—Complete
2	28039	Tesamol (5 ft.)
3	56106	Switch—Toggle (SPDT)
4	4234	Capacitor—2.84 μF/50V (metalized mylar)
5	42489	Capacitor—6 μF/100V
6	35034	Coil—1.6 mH (210 turns No. 18 Copper)
7	62545	Screw—Hex (8 x ½)
8	27071	Terminal Strip
9	76188	Pole Piece Cap
10	6617	Tubing (7 inch)
	A48411	Nameplate (Eliminator 2)
	38456	Lockwasher—Switch (½)

PICTORIAL 3





SCHEMATIC

THE HOME BUILT ELIMINATOR

Electro-Voice has made available home builders plans (342-9) on the Eliminator enclosure. This system uses the same components as the Eliminator 1 and 2 which are warranted under the high fidelity loudspeaker warranty only:

Electro-Voice high fidelity loudspeakers are guaranteed for five years from date of purchase against failures due to defects in workmanship and materials. If such failure occurs, your speaker will be repaired or replaced (at our option) without charge for materials or labor, if delivered to Electro-Voice or its service agency. The unit will be returned prepaid. Warranty does not cover finishes or failures due to abuse or operation at other than specified ratings. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

ELECTRO-VOICE, INC. / Buchanan, Michigan
A Subsidiary of Gulton Industries, Inc.