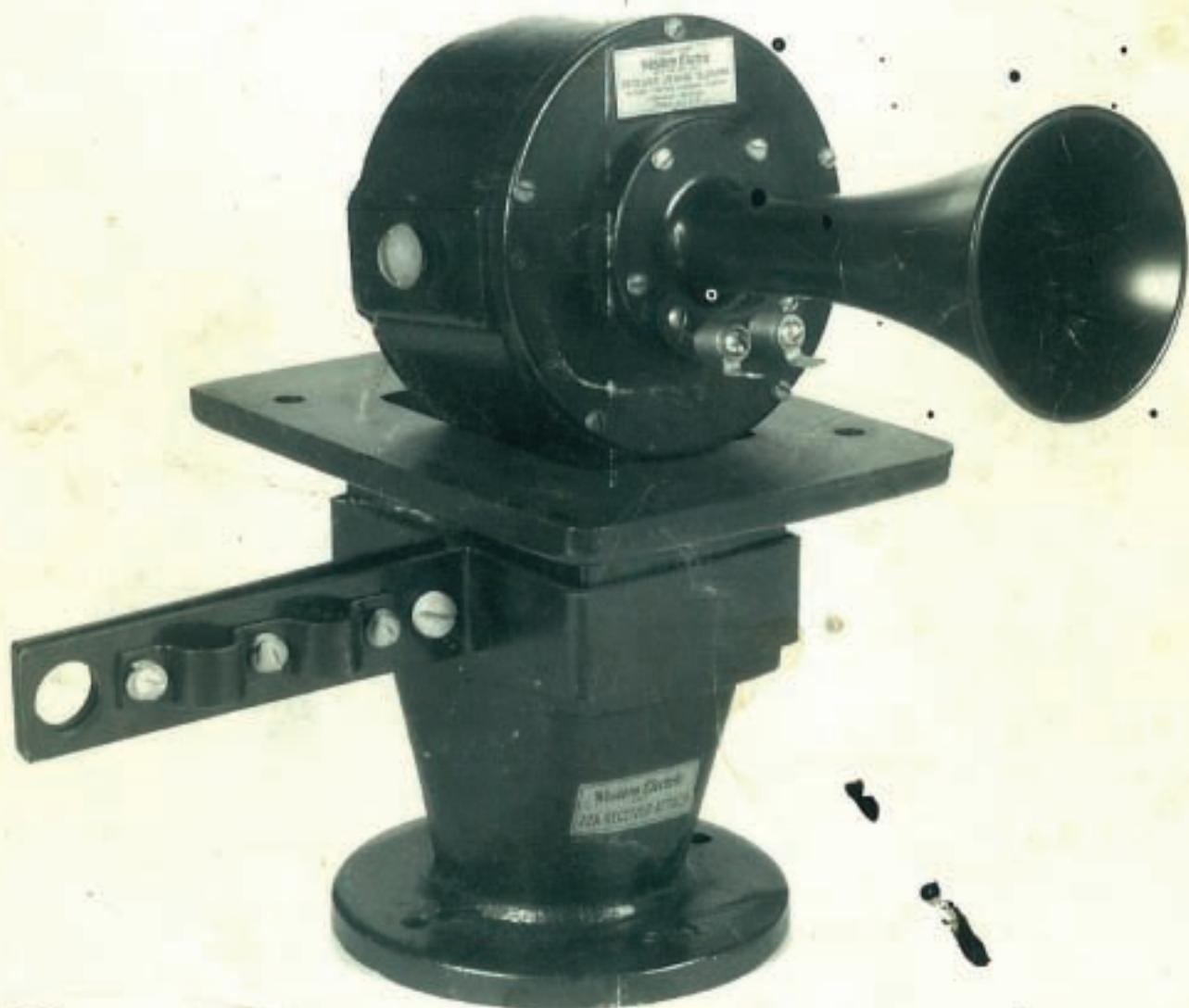


The Western Electric Loud Speaker and Horn Compendium

by Barry Nadel

Volume 2 in the Museum of Sound® Series



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The Historical Institute for the Study of Sound® H.I.S.S.
P.O. Box #29303, San Francisco, CA 94129



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by

BARRY NADEL



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FOREWORD

It is the Institute's hope that this book will provide to the casual collector and/or the serious student of the subject an overview of the great bulk of information that exists on Western Electric loud speakers and horns.

This volume represents an analogue effort on an analogue subject for analogue usage. Some original images were rendered on acid containing paper. They have deteriorated with time but are included for historical completeness.

The Institute has prefaced the individual loud speaker and horn sections with two leaves (pages 11 and 12) from RD-SL dated April 1, 1949. The Institute has done this in the hope of granting historical placement on many of the materials contained within the text.

The cover of this book depicts a Western Electric 597B loud speaking telephone resting on a 22A receiver attachment.

MICROPHONES, STANDS AND ACCESSORIES - CONTINUED

<u>CODE No.</u>	<u>DESCRIPTION</u>	<u>BULLETIN NUMBER</u>	<u>SUGGESTED LIST PRICE</u>
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TRANSMITTERS

(R) 639A (CONT'D)

	22A TRANSMITTER MOUNTING (FLOOR) -----	T2336C	\$35.85
	ES-764305-2 WEIGHTS ----- PER SET		\$4.40
	24A TRANSMITTER MOUNTING (DESK) -----		\$6.00
	639B (MICROPHONE) -----	T1755F	\$188.00
+	640AA (MICROPHONE, UNCALIBRATED) -----	T2221C	\$250.00
+	640AA (MICROPHONE, CALIBRATED) -----	T2221C	\$358.35
+	RA-1095 AMPLIFIER -----	T2221C	\$250.00

WEIGHTS

ES-764305-2 (FOR 22A TRANSMITTER MOUNTING) ----- PER SET \$4.40

LOUDSPEAKERS, HORNS, HEADSETS AND ACCESSORIESATTACHMENTS, RECEIVER

(R) 25A	(707 RECEIVER TO 31A HORN) -----	P.O.A.
(R) 27A	(713 RECEIVER TO 31A HORN) -----	9.25

BRACKETS713A FOR MOUNTING 25A AUTO-TRANSFORMER ON 728B
LOUDSPEAKER ----- \$4.875HORNS

(R) 31A	-----	T2346	63.15
(R) 32A	-----	T2347B	30.20
KS-12024	-----	T2423	36.45
KS-12025	-----	T2422	36.45
KS-12027	-----	T2424	72.40
KS-12047	-----	T2543	200.00**

** SUGGESTED RESALE TO RAILROADS \$150.00; DEALER'S \$140.00.

NETWORKS

(R) 702A	-----	109.20
D-173048 (FOR 753B OR C LOUDSPEAKER)	-----	52.10

PARTS

D-173471 CONVERSION PARTS TO REPLACE 707F RECEIVER WITH 720A 15.20

* PRICE APPLIES ONLY ON THE PRESENT FACTORY STOCK AND SUBJECT TO PRIOR SALE.

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1A HORN



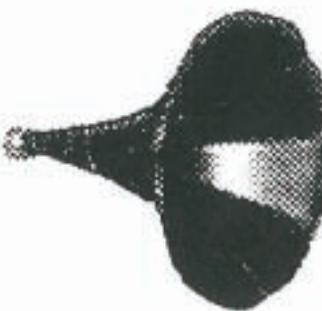
3A HORN

DIAMETER AT MOUTH - 13 inches
DIAMETER AT THROAT (INSIDE) - .75 inch
DIAMETER AT THROAT (OUTSIDE) - 1.125 inch
APPROXIMATE LENGTH - 20 inches
REQUIRES - 1 555 RECEIVER or
1 551-W MOVING ARMATURE TYPE
LOUD SPEAKING TELEPHONE

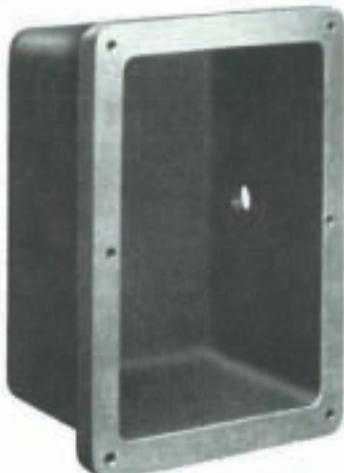


4A HORN

DIAMETER AT MOUTH - 15 inches
DIAMETER AT THROAT (INSIDE) - .5 inch
DIAMETER AT THROAT (OUTSIDE) - .75 inch
APPROXIMATE LENGTH - 15 inches

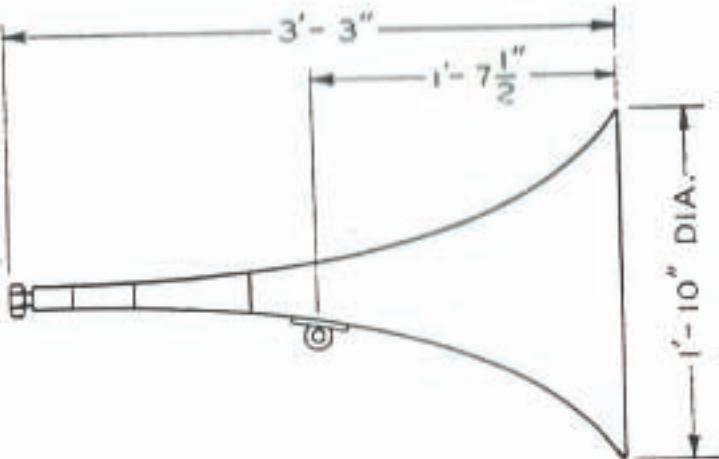


5A RECEIVER HOLDER AND BRACKET



6A HORN

USE - P.A. SYSTEMS
DESCRIPTION - STRAIGHT (FABRIC)
AIR COL. LGTH. - APPROX. 3 FEET
HOR. COVERAGE - 30 DEGREES
VERT. COVERAGE - 30 DEGREES
REQUIRES - 1 - 555
WEIGHT - 10 POUNDS



7A RECEIVER ATTACHMENT

USE - FOR ATTACHING ONE 555 RECEIVER OR ONE 30150-B
RECEIVER TO A 15A HORN

8B RECEIVER ATTACHMENT

USE - FOR ATTACHING TWO 555 OR 30150-B RECEIVERS
TO A 15B HORN

9A RECEIVER ATTACHMENT

USE - FOR ATTACHING TWO 555 OR 30150-B RECEIVERS
TO A 16A HORN

10A RECEIVER ATTACHMENT

USE - FOR ATTACHING FOUR 555 OR 30150-B RECEIVERS
TO A 17A HORN

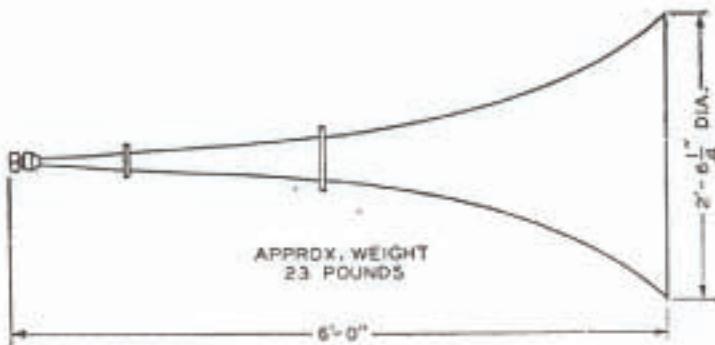
10D LOUDSPEAKER



11A HORN

USE - P.A. SYSTEMS

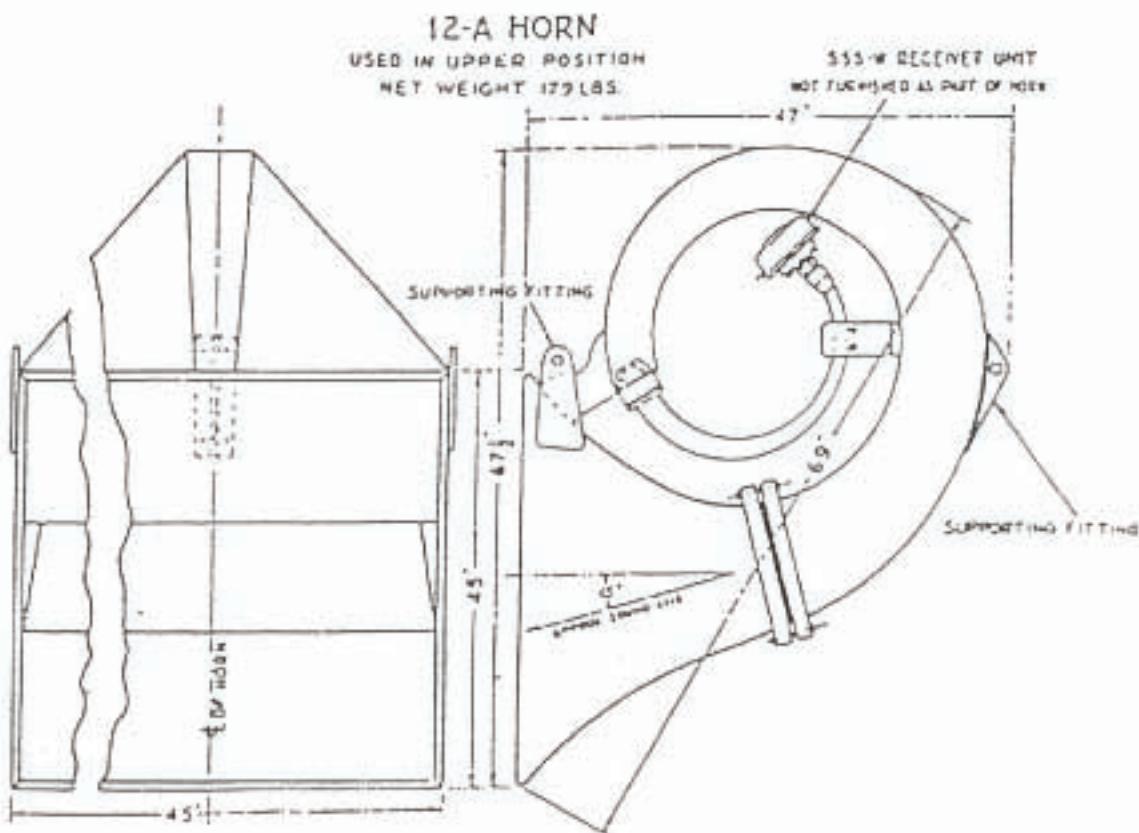
DESCRIPTION - STRAIGHT (FABRIC)
AIR COL. LGTH. - APPROX. 6 FEET
HOR. COVERAGE - 30 DEGREES
VERT. COVERAGE - 30 DEGREES
REQUIRES - 1 555
WEIGHT - 23 POUNDS



12A HORN

USE - STAGE

DESCRIPTION - CURVED (WOOD)
AIR COL. LGTH. - 11 FEET
HOR. COVERAGE - 30 DEGREES
VERT. COVERAGE - 40 DEGREES
REQUIRES - 1 - 555
2 - 555 (D-290177)



12A RECEIVER ATTACHMENT

USE - FOR ATTACHING 1 - 555 RECEIVER
TO A 22A HORN

13A HORN

USE - STAGE

DESCRIPTION - FOLDED (WOOD)

AIR COL. LGTH. - 14 FEET

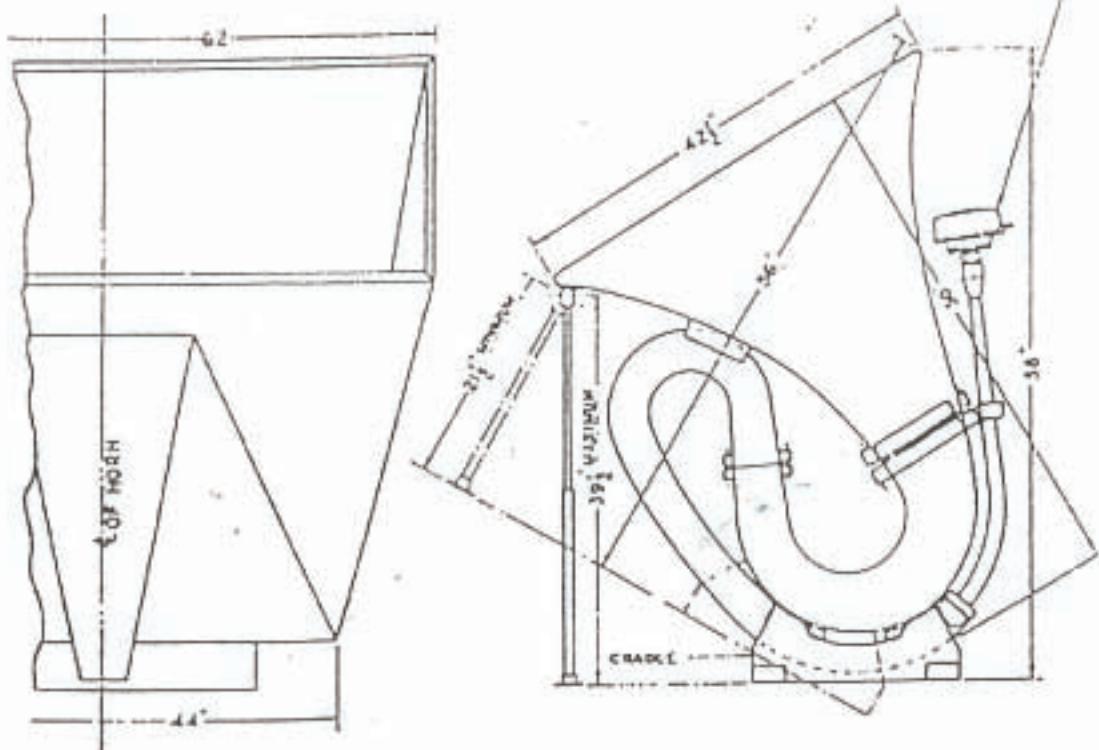
HOR. COVERAGE - 30 DEGREES

VERT. COVERAGE - 40 DEGREES

REQUIRES - 1 - 555 RECEIVER

WEIGHT - 250 POUNDS

555-W RECEIVER UNIT
NOT FURNISHED AS PART OF HORN

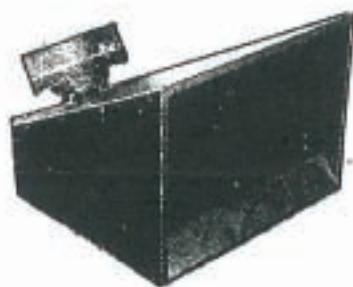


13A RECEIVER ATTACHMENT

USE - FOR ATTACHING 2 - 555 RECEIVERS
TO A 22A HORN

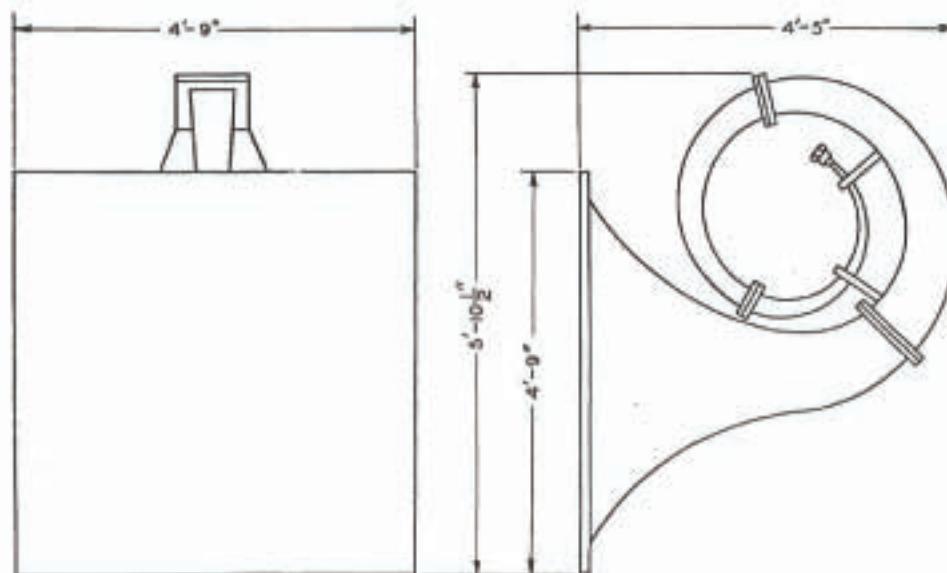
14A HORN

USE - MONITOR
DESCRIPTION - CURVED (WOOD)
AIR COL. LGTH. - 3 FEET
REQUIRES - 1 - 555 RECEIVER
WEIGHT - APPROX. 5 POUNDS



15A HORN

USE - USED FOR GENERAL PURPOSES
IN OLD SYSTEMS
DESCRIPTION - EXPONENTIAL - WOODEN
HOR. COVERAGE - 40 DEGREES
VERT. COVERAGE - 60 DEGREES
WEIGHT - INCL. LOUDSPRS. - APPROX 150 POUNDS



15A RECEIVER ATTACHMENT

USE - FOR ATTACHING 3 - 555 RECEIVERS
TO A 22A HORN

15B HORN

DESCRIPTION AND USE - SAME AS 15A, BUT INCLUDES 8-B RECEIVER ATTACHMENT FOR TWO 555 OR 30150-B RECEIVERS.

16A HORN

USE - STAGE

REQUIRES - 2-9A R.A. FOR 2-555 REC.

DESCRIPTION - FOLDED (METAL)

2-8B R.A. FOR 4-555 REC.

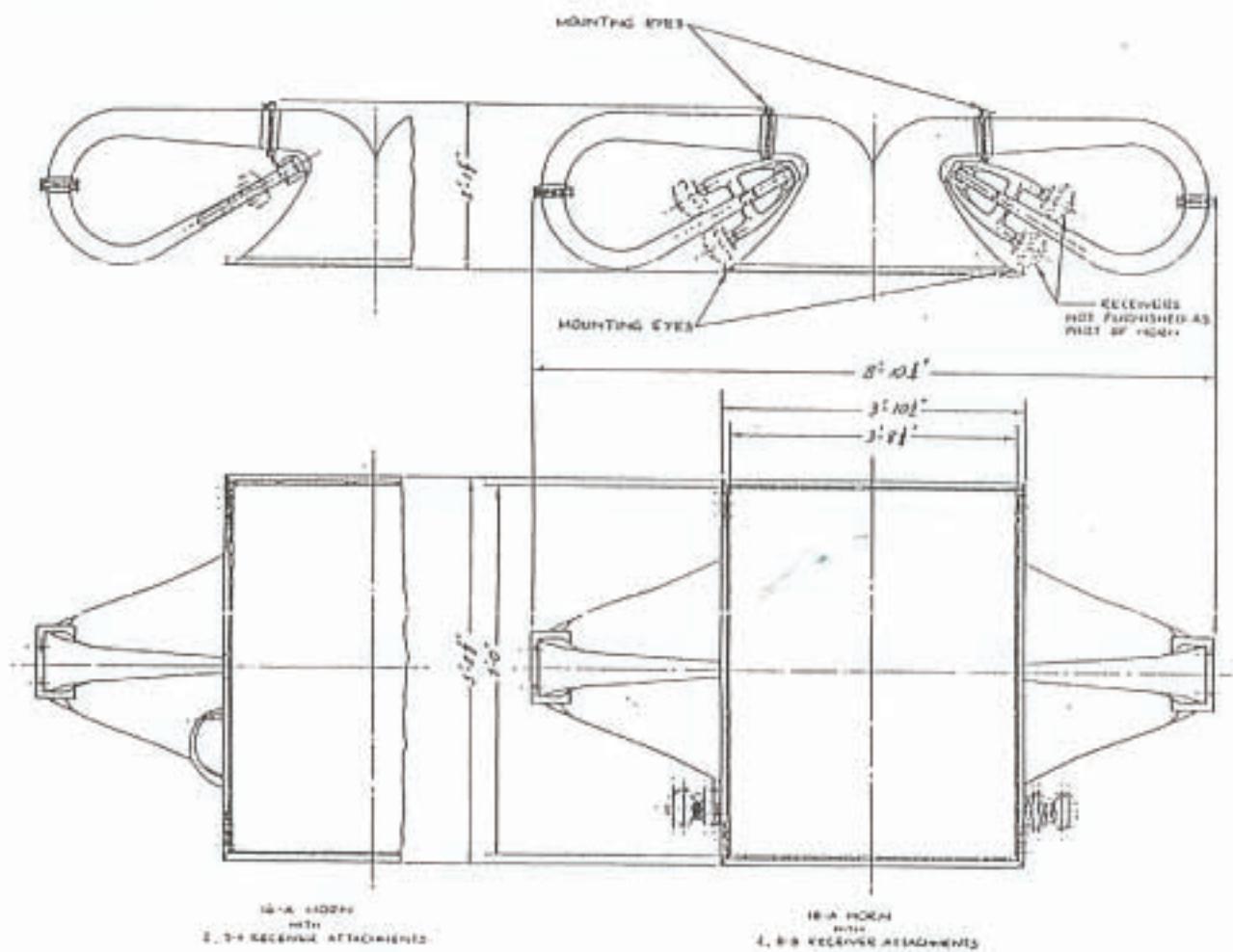
AIR COL. LGTH. - 9 FEET 11 INCHES

2-15A R.A. FOR 6-555 REC.

HOR. COVERAGE - 60 DEGREES

VERT. COVERAGE - 50 DEGREES

WEIGHT - 110 POUNDS



16A RECEIVER ATTACHMENT

USE - FOR ATTACHING 3 - 555 RECEIVERS TO A 17A HORN

17A HORN

USE - STAGE
DESCRIPTION - CURVED (WOOD)
AIR COL. LGTH. - 11 FEET
HOR. COVERAGE - 30 DEGREES
VERT. COVERAGE - 40 DEGREES
APPLICATION - SAME AS 15-TYPE BUT WITHOUT
RECEIVER ATTACHMENTS

REQUIRES - 1-7A R.A. FOR 1-555 REC.

19A RECEIVER ATTACHMENT

USE - FOR ATTACHING ONE 594 RECEIVER
TO A 24A HORN

19B RECEIVER ATTACHMENT

USE - FOR ATTACHING TWO 594 RECEIVERS
TO A 24A HORN

19C RECEIVER ATTACHMENT

USE - FOR ATTACHING ONE 555 RECEIVER
TO A 24B HORN

20A RECEIVER ATTACHMENT

USE - FOR ATTACHING ONE 555 RECEIVER
TO A 25A HORN

20B RECEIVER ATTACHMENT

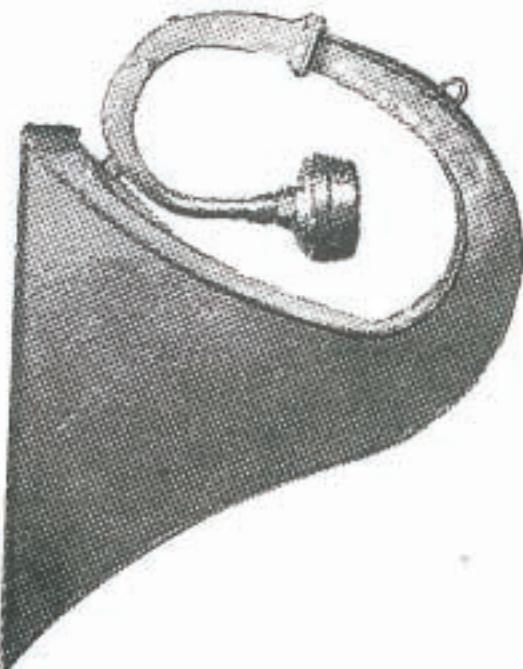
USE - FOR ATTACHING TWO 555 RECEIVERS
TO A 25A HORN

21A HORN



22A HORN

USE - STAGE (WIDE FREQUENCY)
DESCRIPTION - CURVED (METAL)
HOR. COVERAGE - 20 DEGREES
VERT. COVERAGE - 40 DEGREES
WEIGHT - 40 POUNDS
REQUIRES - 1-12A R.A. FOR
1-555 RECEIVER

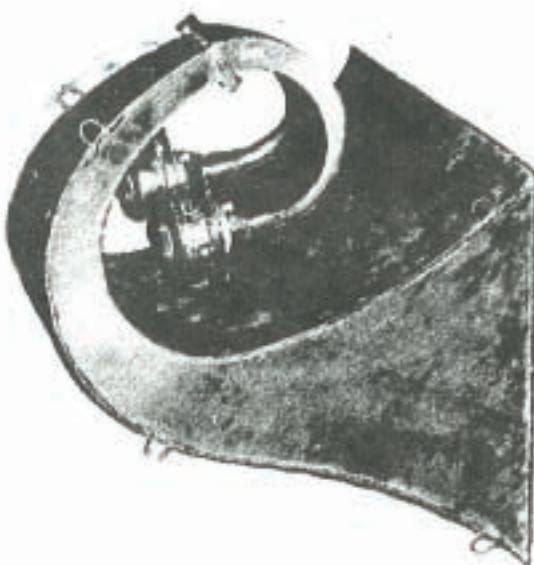


22A RECEIVER ATTACHMENT

USE - FOR ATTACHING ONE 594 RECEIVER
TO A 26A HORN

22B HORN

DISCUSSION - SAME AS 22A HORN BUT HAS
A 13A RECEIVER ATTACHMENT
FOR TWO 555 RECEIVERS



22B RECEIVER ATTACHMENT

USE - FOR ATTACHING TWO 594 RECEIVERS
TO A 26A HORN

23A RECEIVER ATTACHMENT

USE - FOR ATTACHING ONE 594 RECEIVER
TO A 27A HORN

23B RECEIVER ATTACHMENT

USE - FOR ATTACHING TWO 594 RECEIVERS
TO A 27A HORN

24A HORN

USE - STAGE HIGH FREQUENCY

DESCRIPTION - FLAT FACED, 12 CELL, 3 X 4 (METAL)

HOR. COVERAGE - UP TO 70 DEGREES

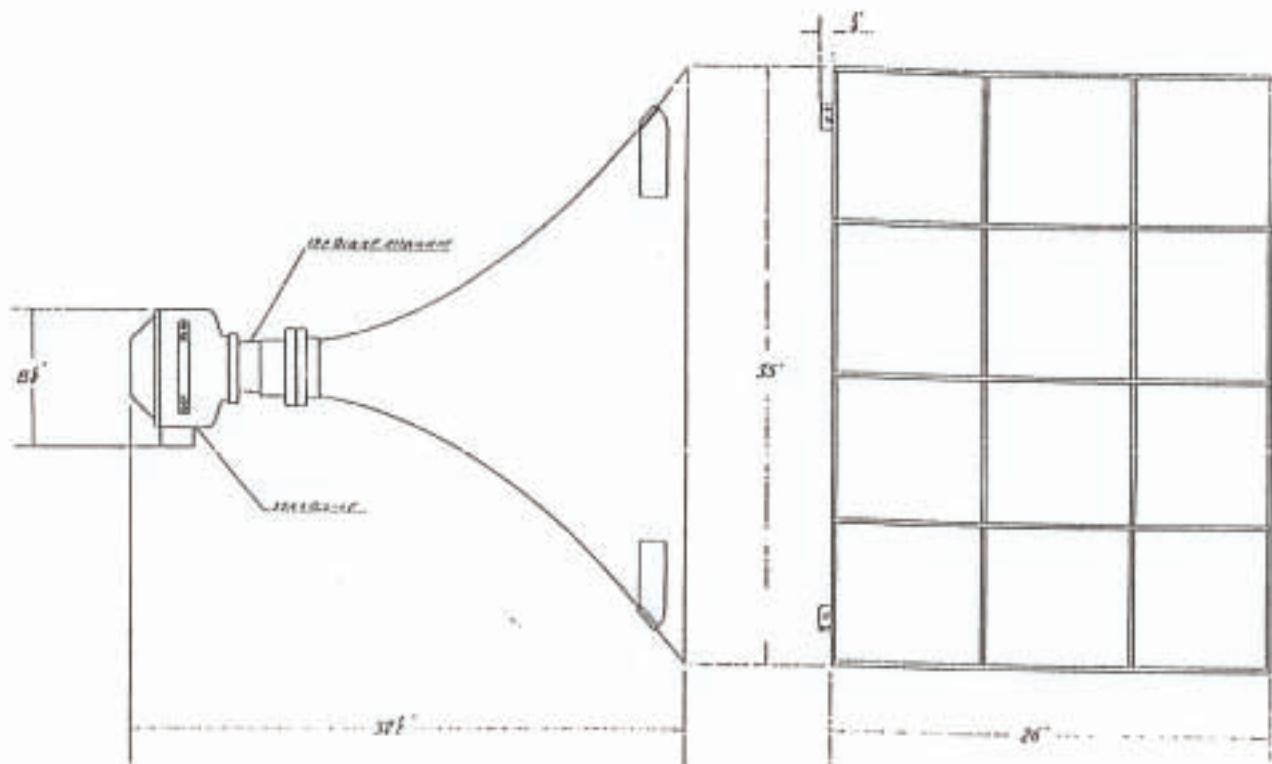
WEIGHT - 41 POUNDS

FREQUENCY RANGE - 300 - 8000 CYCLES/SECOND

VERT. COVERAGE - 40 DEGREES

COVERS AUDITORIUM WIDTH OF - 35 - 75 FEET

FURTHER COMMENT - USED WITH ONE 19A RECEIVER ATTACHMENT
AND ONE 594 LOUDSPEAKER FOR H.F. IN
MIRROPHONIC SYSTEMS, MADE OF ERPI
LAMINATED METAL, BLACK



24A RECEIVER ATTACHMENT

USE - FOR ATTACHING ONE 594 RECEIVER TO A 28A HORN

24B HORN

USE - STAGE HIGH FREQUENCY

DESCRIPTION - FLAT FACED, 12 CELL, EXPONENTIAL, 3 X 4, MADE OF LONG TERNE PLATE PARTITIONS & ERPI LAMINATED METAL, BLACK

REQUIRES - 19C RECEIVER WITH ONE 555 RECEIVER

OVERALL SIZE - 26 INCHES HIGH X 35 INCHES WIDE X 35.75 INCHES DEEP

WEIGHT - 35 POUNDS

FREQUENCY RANGE - 300 TO 7000 CYCLES/SECOND

24B RECEIVER ATTACHMENT

USE - FOR ATTACHING TWO 594 RECEIVERS TO A 28A HORN

25A HORN

USE - STAGE HIGH FREQUENCY

DESCRIPTION - FLAT FACED, 15 CELL EXPONENTIAL, 3 X 5, OF LONG TERNE PLATE & ERPI LAMINATED METAL OUTSIDE, BLACK

APPLICATION - USED WITH 1 20A RCVR. ATTACH. & 1 555 LOUDSPR., OR WITH 1 20B RCVR. ATTACH. & 2 LOUDSPKRS IN MIRROPHONIC SYSTEMS

DIMENSIONS - 25 INCHES HIGH X 40.5 INCHES WIDE X 34.125 INCHES DEEP

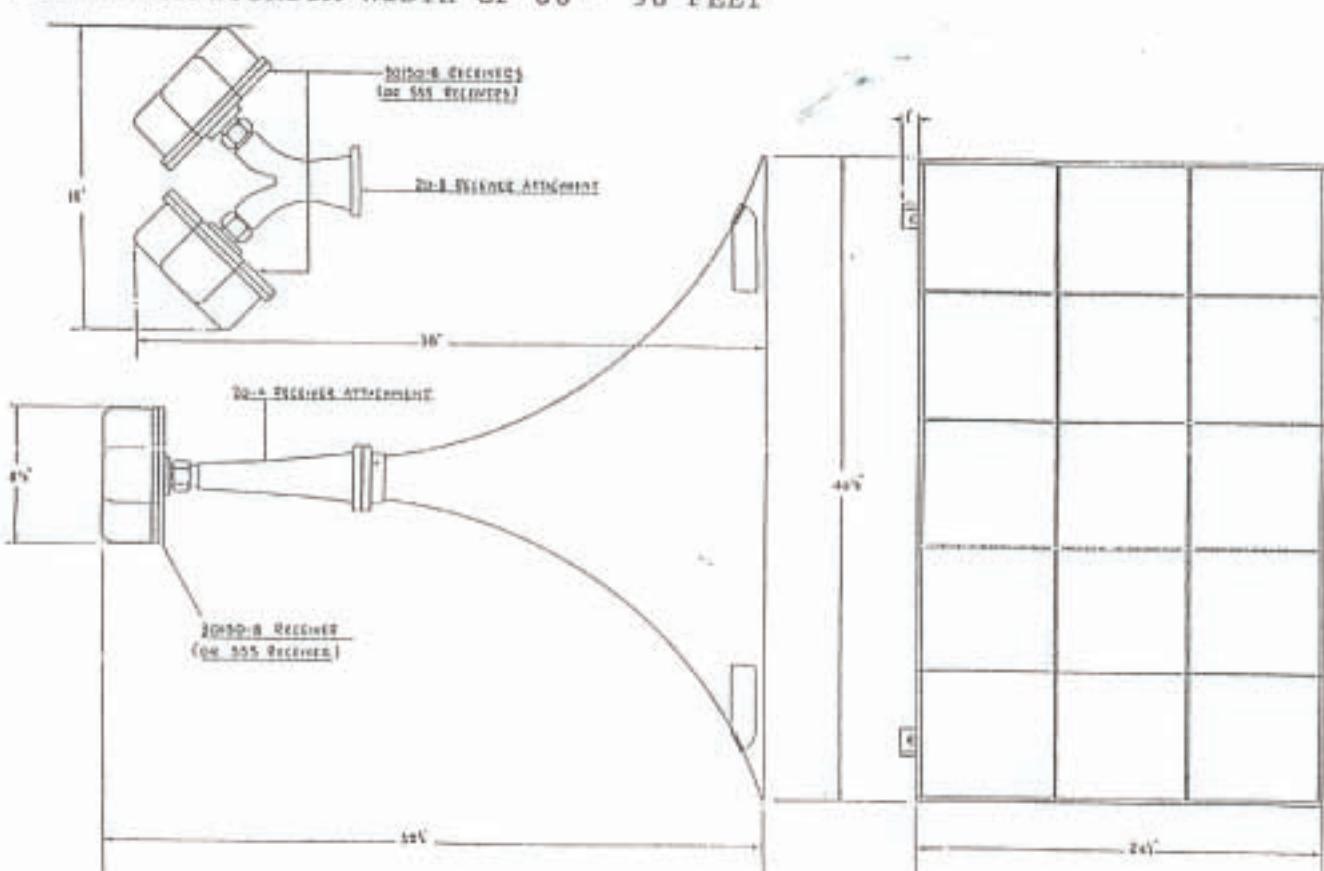
WEIGHT - 60 POUNDS WITH ONE RECEIVER, 80 POUNDS WITH TWO RECEIVERS

FREQUENCY RESPONSE - 300 TO 7000 CYCLES/SECOND

HOR. COVERAGE - 80 DEGREES

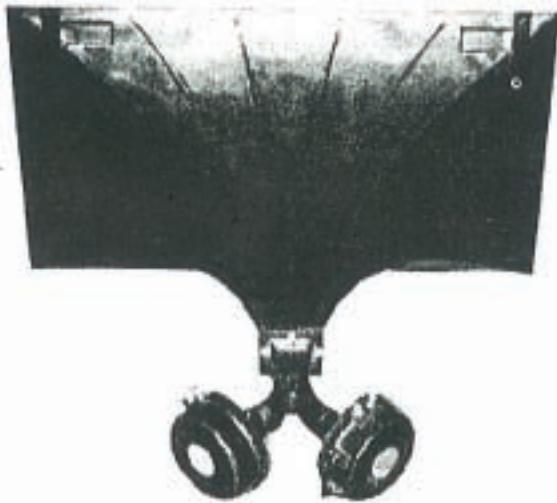
VERT. COVERAGE - 40 DEGREES

COVERS AUDITORIUM WIDTH OF 60 - 90 FEET



25B HORN

DISCUSSION - SAME AS 25A HORN BUT HAS
A 20B RECEIVER ATTACHMENT
FOR TWO 555 RECEIVERS



26A HORN

USE - STAGE HIGH FREQUENCY

DESCRIPTION - SPHERICAL FACED, 12 CELL, EXPONENTIAL, 3 X 5, ERPI
LAMINATED METAL, BLACK

APPLICATION - USED WITH 1 22A RECVR. ATTACH. & 1 594A LOUDSPR, OR WITH
1 22B RECVR. ATTACH. & 2 LOUDSPEAKERS IN MIRROPHONIC SYSTEMS

DIMENSIONS - 25 INCHES HIGH X 37 INCHES WIDE X 32.5 INCHES DEEP

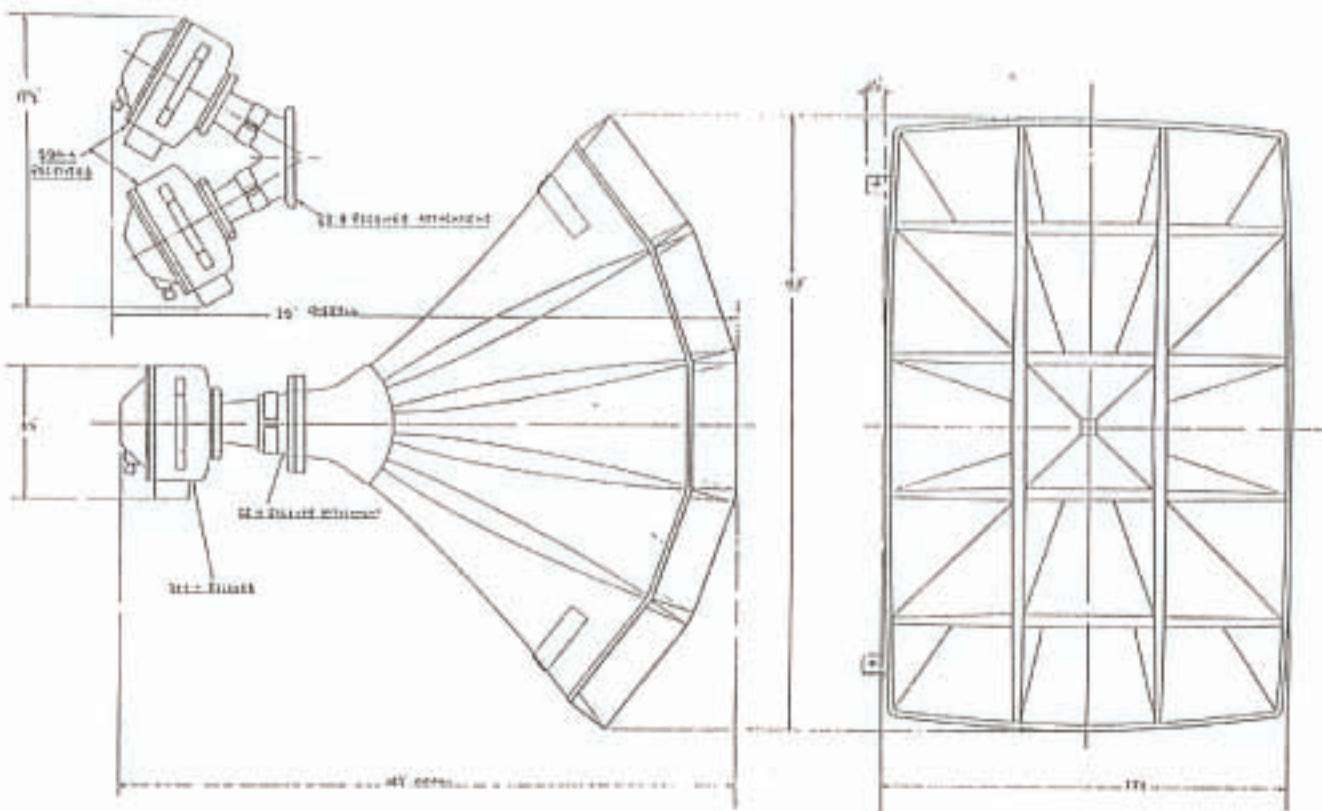
WEIGHT - 125 POUNDS WITH ONE RECEIVER, 150 POUNDS WITH TWO RECEIVERS

FREQUENCY RESPONSE - 300 CYCLES TO 8000 CYCLES/SECOND

HOR. COVERAGE - 110 DEGREES

VERT. COVERAGE - 40 DEGREES

COVERS AUDITORIUM WIDTH OF 75 - 120 FEET



26A RECEIVER ATTACHMENT

USE - FOR ATTACHING A 707F RECEIVER TO A 31A HORN



27A HORN

USE - STAGE HIGH FREQUENCY

DESCRIPTION - SPHERICAL FACED, 12 CELL, EXPONENTIAL, 2 X 6,
MADE OF ERPI LAMINATED METAL, BLACK

APPLICATION - USED WITH 1 23A RCVR. ATTACH. & 1 594 LOUDSPR., OR WITH
1 23B RCVR. ATTACH. & 2 594 LOUDSPEAKERS.

DIMENSIONS - 17 INCHES HIGH X 42 INCHES WIDE X 30 INCHES DEEP

WEIGHT - 80 POUNDS

FREQUENCY RESPONSE - 300 TO 8000 CYCLES/SECOND

HOR. COVERAGE - GREATER THAN 110 DEGREES

27A RECEIVER ATTACHMENT

USE - THE 27A RECEIVER ATTACHMENT SERVES AS AN ADAPTER
FOR COUPLING THE 713 TYPE OR 720A RECEIVERS AND
THE 31A HORN.

DIMENSIONS - 8 INCHES HIGH, WITH FLANGES AT BOTH ENDS
WHICH ARE 4 INCHES IN DIAMETER

WEIGHT - 1.75 POUNDS, APPROXIMATELY

FINISH - GRAY



28A HORN

USE - STAGE HIGH FREQUENCY

DESCRIPTION - SPHERICAL FACED, 18 CELL, EXPONENTIAL, 3 X 6, MADE
OF ERPI LAMINATED METAL, BLACK

APPLICATION - USED WITH 1 24A RECEIVER ATTACH. & 1 594 LOUDSPEAKER, OR
WITH 1 24B RECEIVER ATTACH. & 2 594 LOUDSPEAKERS.

DIMENSIONS - 21.5 INCHES HIGH X 43 INCHES WIDE X 29.5 INCHES DEEP
WEIGHT - 118 POUNDS

HOR. COVERAGE - GREATER THAN 110 DEGREES

FREQUENCY RESPONSE - 300 CYCLES TO 8000 CYCLES

RESTRICTED FOR USE IN THEATRES THAT ARE WIDE, COMPARATIVELY SHORT,
WITH HIGH BALCONY, REQUIRING DISTRIBUTION THAT IS
HORIZONTALLY GREATER THAN 110 DEGREES.

31A HORN

USE - WIDE ANGLE SPEECH AND MUSIC REPRODUCTION

HOR. COVERAGE - 120 DEGREES

VERT. COVERAGE - 40 DEGREES

REQUIRES - 1 594 LOUD SPEAKING TELEPHONE OR WITH 27A RECEIVER ATTACHMENT, A 720A, 713A, 713B, OR 713C RECEIVER CAN BE USED.

DIMENSIONS - 23 INCHES WIDE X 9 INCHES HIGH X 15 INCHES DEEP

WEIGHT - 9.5 POUNDS

FINISH - GRAY

FREQUENCY RESPONSE - 400 TO 10,000 CYCLES/SECOND WITH 594A RECEIVER



32A HORN

USE - WIDE ANGLE SPEECH AND MUSIC REPRODUCTION

HOR. COVERAGE - 90 DEGREES

VERT. COVERAGE - 60 DEGREES

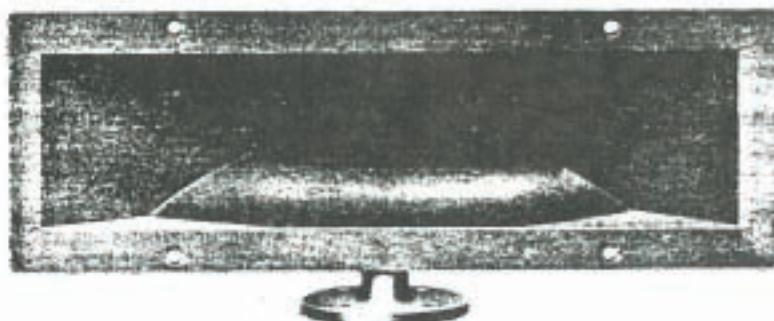
REQUIRES - 1 720A, 722A, 713A, 713B, OR 713C RECEIVER

DIMENSIONS - 16 INCHES WIDE X 10 INCHES DEEP X 8.5 INCHES HIGH

WEIGHT - 5 POUNDS

FINISH - GRAY

FREQUENCY RESPONSE - 500 TO 6500 CYCLES/SECOND WITH 720A RECEIVER,
800 TO 10,000 CYCLES/SECOND WITH 713B RECEIVER,
800 TO 15,000 CYCLES/SECOND WITH 713C RECEIVER



518 LOUD SPEAKING TELEPHONE

USE - PROGRAM MONITORING

TOTAL HEIGHT - 20 1/2 INCHES



521-CW LOUD SPEAKING TELEPHONE

USE - PROGRAM MONITORING

TOTAL HEIGHT - 41 INCHES



521-W LOUD SPEAKING TELEPHONE

USE - PROGRAM MONITORING

TOTAL HEIGHT - 43 INCHES



540-AW CONE TYPE LOUD SPEAKING TELEPHONE

USE - PROGRAM MONITORING

CONE DIAMETER - 18 INCHES

TOTAL HEIGHT - 20 1/2 INCHES



543-W LOUD SPEAKING TELEPHONE

USE - PROGRAM MONITORING

TOTAL HEIGHT - 31 INCHES



548-AW CONE TYPE LOUD SPEAKING TELEPHONE FOR PEDESTAL MOUNTING

USE - PROGRAM MONITORING

CONE DIAMETER - 36 INCHES

TOTAL HEIGHT - 49 INCHES



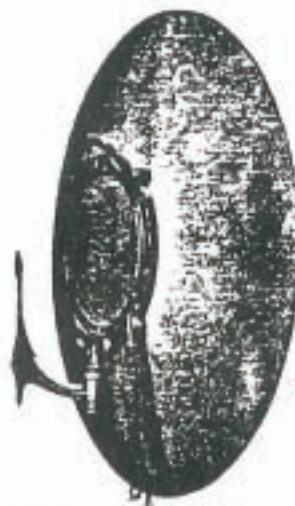
548-CW CONE TYPE LOUD SPEAKING TELEPHONE FOR WALL MOUNTING

CONE DIAMETER - 36 INCHES

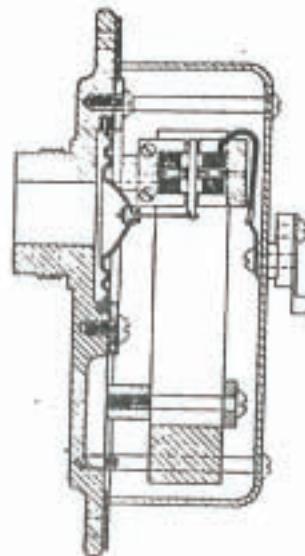


548-DW CONE TYPE LOUD SPEAKING TELEPHONE FOR HINGED WALL MOUNTING

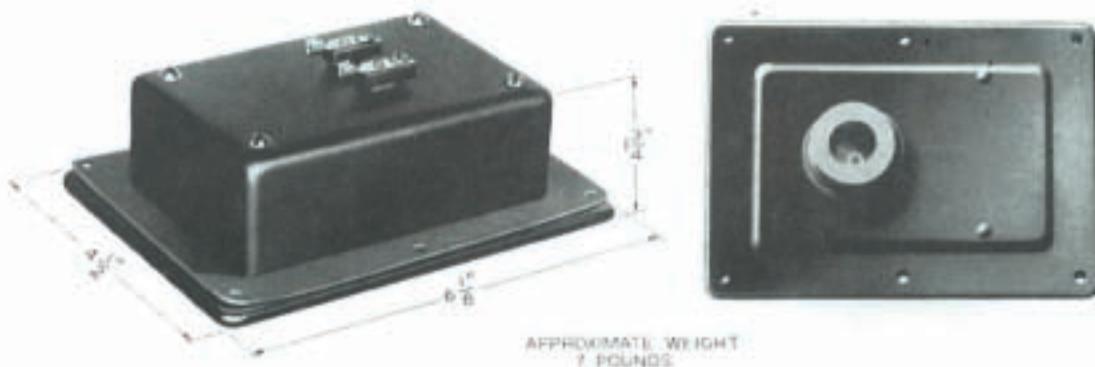
CONE DIAMETER - 36 INCHES



549-W MOVING ARMATURE TYPE LOUD SPEAKING TELEPHONE



551-W MOVING ARMATURE TYPE LOUD SPEAKING TELEPHONE RECEIVER



555 RECEIVER

DESCRIPTION - DYNAMIC UNIT, FOR WESTERN HORN

USE - ALL SYSTEMS USING HORNS; MEDIUM FREQUENCY UNIT, WIDE RANGE SYSTEMS

SPEECH COIL - RESISTANCE (OHMS) A MAX, CONTINUOUS INPUT (WATTS)
12.8 OHMS DC/ 16-25 OHMS - SPEECH / 6 WATTS

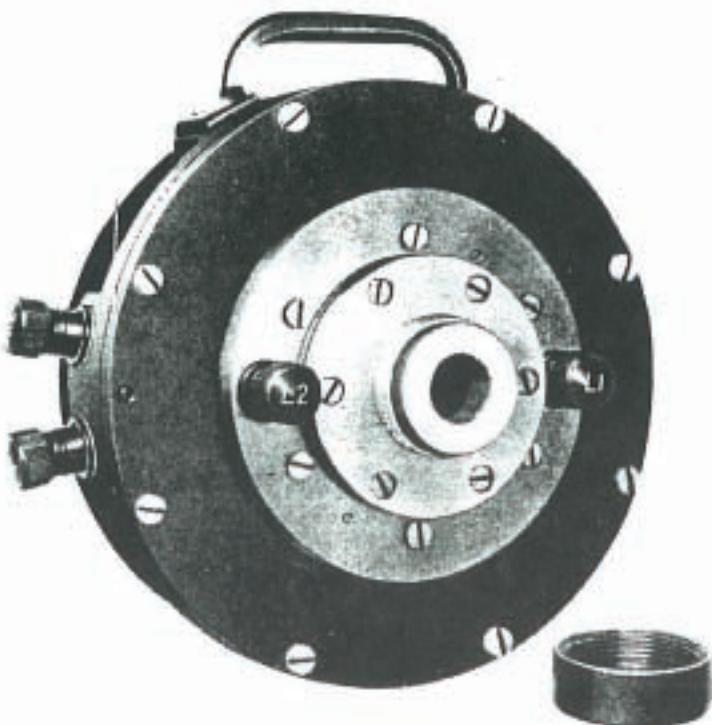
FIELD COIL DC RESISTANCE (OHMS) 4.5

VOLTS - 7 DC

POWER SUPPLY - 1.5 AMPS, 10.5 WATTS

DIMENSIONS - 7 INCHES DIAMETER, 4.5 INCHES HIGH

WEIGHT - 20 POUNDS



560 AW CONE TYPE LOUD SPEAKING TELEPHONE

USE - PROGRAM MONITOR

CONE DIAMETER - 24 INCHES

TOTAL HEIGHT - 26.5 INCHES

WEIGHT - 8 POUNDS



575 LOUD SPEAKING TELEPHONE

USE - TABLE TYPE PROGRAM MONITOR



575A LOUD SPEAKING TELEPHONE

USE - FLUSH TYPE PROGRAM MONITOR



576A LOUD SPEAKING TELEPHONE

USE - SURFACE TYPE PROGRAM MONITOR



594A LOUD SPEAKING RECEIVER

USE - HIGH FREQUENCY DRIVER IN DIPHONIC SOUND SYSTEMS

WEIGHT - 30 POUNDS

DIAMETER - 7 INCHES

DEPTH - 6 INCHES

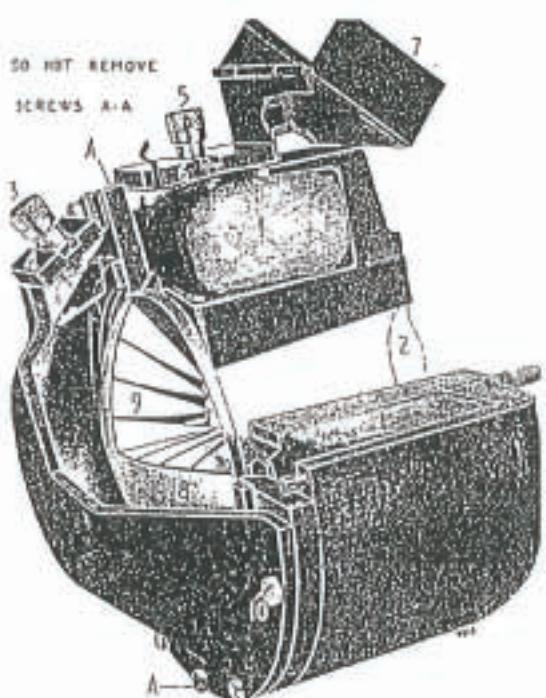
FIELD COIL - 24 VOLTS DC

18 OHMS DC

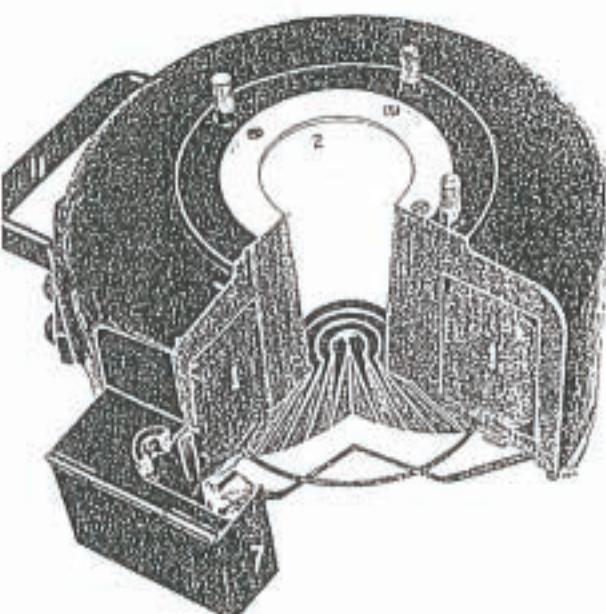
32 WATTS

1.3 AMPERES

VOICE COIL - 12 OHMS DC



- 1 Det. 8, E50-751607 Field Coil-24V, 1 Amp.
- 2 Det. 29, E50-751610 Screen-Ring Assembly,
#10-20x3/8" RHIM Screws (4)
- 3 P-213920 (L1) and P-213921 (L2) Terminals
- 4 Det. 38, E50-752080 Terminal Block (Sound)
- 5 P-213918 (-24V), P-213919 (+24V) Terminals
- 6 Det. 10, E50-751608 Terminal Block (Field)
- 7 Det. 13, E50-751608 Cover
- 8 Det. 12, E50-751608 Cover Pin



- 9 *Diaphragm (Aluminum Alloy .002" Thick)
- 10 #10-24"x11/16" Pl. RHIM Screws (8)
- 11 Det. 24, E50-751609 Handle
1/4"-20x5/8" RHIM Screws
- 12 Standard 1/4"-20 Hex Nuts and
Lockwashers (4) (Not shown)

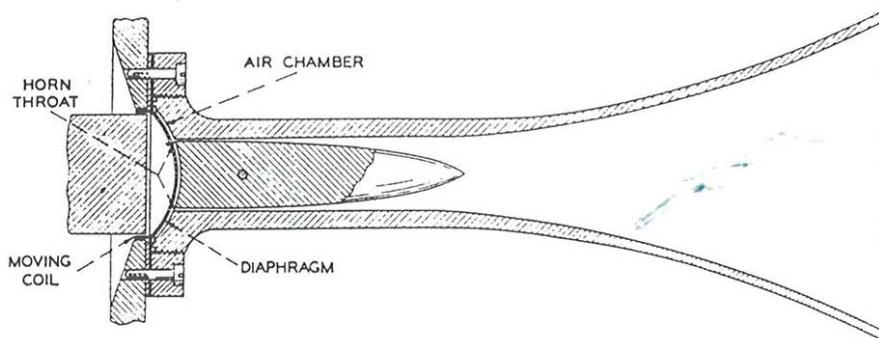
*Indicates items not replaceable.

595A LOUD SPEAKING TELEPHONE

DESCRIPTION - DYNAMIC, 12 INCH PAPER CONE, MOUNTS ON FLAT BAFFLE
USE - RADIO DISTRIBUTION AND PUBLIC ADDRESS SYSTEMS
SPEECH COIL - 16 OHMS DC
FIELD COIL DC RES. (OHMS) - 20
VOLTS - 24 DC
POWER SUPPLY - 1.2 AMPS, 28.8 WATTS
DIMENSIONS (OVERALL) - 14 5/8 INCHES DIAMETER, 6 INCHES DEEP
WEIGHT (LBS.) - 27

596A LOUD SPEAKING TELEPHONE

DESCRIPTION - DYNAMIC RECEIVER, HORN TYPE RADIATOR 4 3/4 INCH AIR COLUMN
USE - HF UNIT, WIDE RANGE SYSTEMS
SPEECH COIL - RESISTANCE (OHMS) & MAX CONTINUOUS INPUT (WATTS) -
20 OHMS DC & 6 WATTS
FIELD COIL - DC RES. (OHMS) - 6.6
VOLTS - 7 DC
POWER SUPPLY - AMPS 1.1, WATTS 7.5
DIMENSIONS (OVERALL) - 4 1/4 INCH DIAMETER, 7 1/8 INCHES DEEP
WEIGHT (LBS.) - 6 1/4



A-596-A LOUD SPEAKING TELEPHONE

DESCRIPTION - SAME AS 596-A EXCEPT FOR FIELD WINDING
USE - TA-7272-A LOUD SPEAKING TELEPHONE OUTFITS
SPEECH COIL - RESISTANCE (OHMS) & MAX CONTINUOUS INPUT (WATTS) -
20 OHMS DC & 6 WATTS
FIELD COIL - DC RES. (OHMS) - 750
VOLTS - 75 DC
POWER SUPPLY - AMPS .1, WATTS 7.5
DIMENSIONS - 4 1/4 INCH DIAMETER, 7 1/8 INCHES DEEP
WEIGHT (LBS.) - 6 1/4

A-596-B LOUD SPEAKING TELEPHONE

DESCRIPTION - SAME AS 596-A EXCEPT FOR FIELD WINDING

USE - SPECIAL USE, AS HF UNIT, WIDE RANGE SYSTEMS

SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
20 OHMS DC & 6 WATTS

FIELD COIL - DC RES. (OHMS) 84

VOLTS - 24 DC

POWER SUPPLY - AMPS. .285 & WATTS 6.8

DIMENSIONS (OVERALL) - 4 1/4 INCHES DIAMETER, 7 1/8 INCHES DEEP

WEIGHT (LBS.) - 6 1/4

597-A LOUD SPEAKING TELEPHONE

DESCRIPTION - SAME AS 596-A BUT INCLUDES BRACKET FOR MOUNTING ON
FLAT BAFFLE

USE - HIGH FREQUENCY UNIT, WIDE RANGE SYSTEMS

SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
20 OHMS DC & 6 WATTS

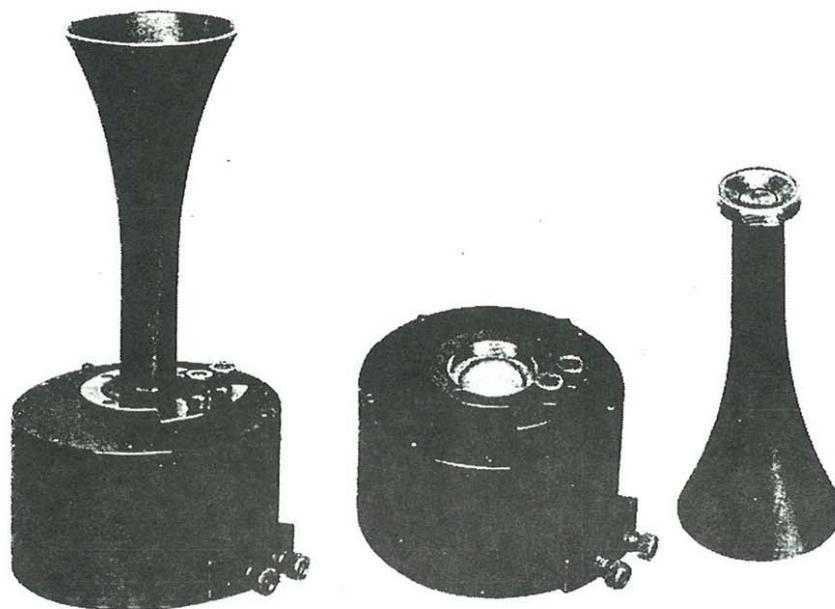
FIELD COIL - DC RES. (OHMS) 6.6

VOLTS - 7 DC

POWER SUPPLY - 1.06 AMPS & 7.5 WATTS

DIMENSIONS (OVERALL) - 4 1/4 INCH DIAMETER, 7 1/8 INCHES DEEP
(LESS BRACKET)

WEIGHT (LBS.) - 6 1/2

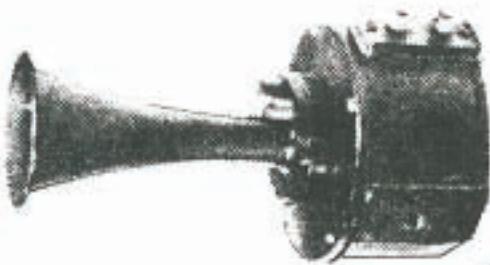


A-597-A LOUD SPEAKING TELEPHONE

DESCRIPTION - SAME AS 597-A EXCEPT FOR FIELD WINDING
USE - TA-7272-A LOUD SPEAKING TELEPHONE OUTFITS
SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
20 OHMS DC & 6 WATTS
FIELD COIL - DC RES. (OHMS) - 750
VOLTS - 75 DC
POWER SUPPLY - .1 AMPS & 7.5 WATTS
DIMENSIONS (OVERALL) - SAME AS 597-A
WEIGHT (LBS.) - 6 1/2

597-B LOUD SPEAKING TELEPHONE

DESCRIPTION - SAME AS 597-A EXCEPT FOR FIELD WINDING
USE - SPECIAL USE AS HIGH FREQUENCY UNIT, WIDE RANGE SYSTEMS
SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
20 OHMS DC & 6 WATTS
FIELD COIL - DC RES. (OHMS) - 84
VOLTS - 24 DC
POWER SUPPLY - .285 AMPS & 6.8 WATTS
DIMENSIONS (OVERALL) - SAME AS 597-A
WEIGHT (LBS.) - 6 1/2



A-597-B LOUD SPEAKING TELEPHONE

DESCRIPTION - MODIFICATION OF 597-A TO EQUIVALENT OF 597-B
USE - SPECIAL USE AS HIGH FREQUENCY UNIT, WIDE RANGE SYSTEMS
SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
20 OHMS DC & 6 WATTS
FIELD COIL - DC RES. (OHMS) - 84
VOLTS - 24 DC
POWER SUPPLY - .285 AMPS & 6.8 WATTS
DIMENSIONS (OVERALL) - SAME AS 597-A
WEIGHT (LBS.) - 6 1/2

702A - NETWORK

USE - DESIGNED FOR TWO CHANNEL LOUDSPEAKERS SYSTEMS FOR PUBLIC ADDRESS AND ALL TYPES OF MONITORING SYSTEMS. THE INPUT WILL WORK FROM A 4 OHM SOURCE IMPEDANCE AND THE TWO OUTPUTS ARE EACH DESIGNED TO FEED 4 OHM VOICE COILS. THE CROSS-OVER FREQUENCY IS 1000 CYCLES.

DIMENSIONS - 14 INCHES LONG, 8 1/4 INCHES WIDE, 4 1/4 INCHES HIGH.

707F RECEIVER

USE - WIDE APPLICATION FOR SPEECH REPRODUCTION WHERE HIGH ACOUSTIC OUTPUTS ARE REQUIRED OVER A WIDE ANGLE. WHEN USED IN CONJUNCTION WITH A 31A HORN, THE 707F WILL HANDLE THE FULL OUTPUT OF A 25 WATT AMPLIFIER, PROVIDED ALL FREQUENCIES AROUND AND BELOW 300 CYCLES, THE CUT-OFF FREQUENCY OF THE HORN, ARE SUFFICIENTLY ATTENUATED.

713A LOUD SPEAKER RECEIVER

USE - AS A HIGH FREQUENCY LOUD SPEAKER IN HIGH QUALITY DUAL LOUD SPEAKER SYSTEMS.

FREQUENCY RESPONSE WITH 31A, 32A HORNS - 800 - 10,000 CYCLES/SECOND;
WITH KS-12024, KS-12025, KS-12027 HORNS - 800 - 15,000 CYCLES/SEC.
VOICE COIL IMPEDANCE - 16 OHMS

POWER HANDLING CAPABILITY - 25 WATTS

SOUND LEVEL AT DISTANCE OF 30 FEET ON THE AXIS AT RATED POWER-
WITH 31A HORN - 92 DB

WITH 32A HORN - 94 DB

WITH KS-12024 HORN - 97 DB

WITH KS-12025 HORN - 95 DB

WITH KS-12027 HORN - 94 DB

DIMENSIONS - 4 5/16 INCHES X 4 7/8 INCHES

WEIGHT - 8 POUNDS



713B LOUD SPEAKER RECEIVER

USE - AS A HIGH FREQUENCY LOUD SPEAKER IN HIGH QUALITY DUAL LOUD SPEAKER SYSTEMS.
FREQUENCY RESPONSE WITH 31A, 32A, KS-12024, KS-12025 AND KS-12027 HORNS - 800 - 10, 000 CYCLES/SECOND
VOICE COIL IMPEDANCE - 4 OHMS
POWER HANDLING CAPABILITY - 25 WATTS
SOUND LEVEL AT DISTANCE OF 30 FEET ON THE AXIS AT RATED POWER -
WITH 31A HORN - 95 DB
WITH 32A HORN - 97 DB
WITH KS-12024 HORN - 100 DB
WITH KS-12025 HORN - 98 DB
WITH KS-12027 HORN - 97 DB
DIMENSIONS - 4 5/16 INCHES X 4 7/8 INCHES
WEIGHT - 8 POUNDS



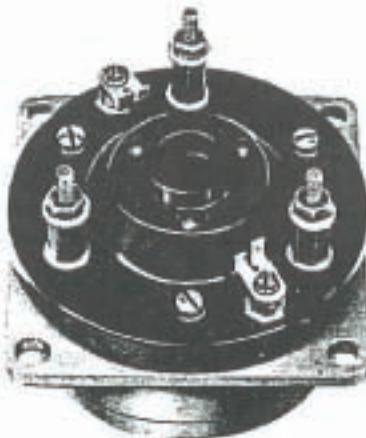
713C LOUD SPEAKER RECEIVER

USE - PRIMARILY INTENDED AS A HIGH FREQUENCY LOUD SPEAKER IN THE 757A LOUD SPEAKING SYSTEM.
FREQUENCY RESPONSE WITH 31A, 32A, KS-12024, KS-12025 AND KS-12027 HORNS - 800 - 15,000 CYCLES/SECOND
VOICE COIL IMPEDANCE - 4 OHMS
POWER HANDLING CAPABILITY - 25 WATTS
SOUND LEVEL AT DISTANCE OF 30 FEET ON THE AXIS AT RATED POWER -
WITH 31A HORN - 92 DB
WITH 32A HORN - 94 DB
WITH KS-12024 HORN - 97 DB
WITH KS-12025 HORN - 95 DB
WITH KS-12027 HORN - 94 DB
DIMENSIONS - 4 5/16 INCHES X 4 7/8 INCHES
WEIGHT - 8 POUNDS



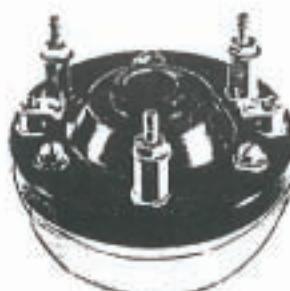
720A RECEIVER

USE - DESIGNED FOR ANNOUNCING AND PUBLIC ADDRESS SYSTEMS
FREQUENCY RESPONSE WITH 31A, 32A, KS-12024, KS-12025, KS-12027
HORNS - 500 - 6500 CYCLES/SECOND
VOICE COIL IMPEDANCE - 8 OHMS
POWER HANDLING CAPABILITY - 30 WATTS (CONTINUOUS)
SOUND LEVEL AT DISTANCE OF 30 FEET ON THE AXIS AT RATED POWER -
WITH 31A HORN - 98 DB
WITH 32A HORN - 100 DB
WITH KS-12024 HORN - 103 DB
WITH KS-12025 HORN - 101 DB
WITH KS-12027 HORN - 100 DB
DIMENSIONS - 3 1/4 INCHES X 4 1/16 INCHES
WEIGHT - 4 POUNDS



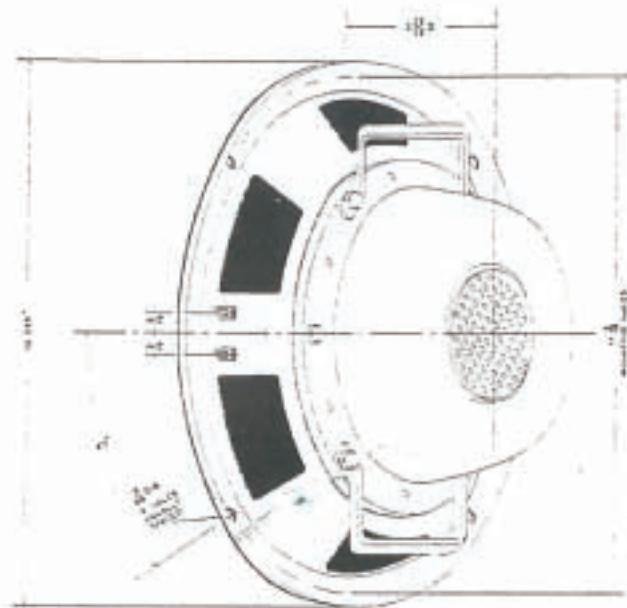
722A RECEIVER

USE - DESIGNED AS A HIGH FREQUENCY LOUD SPEAKER IN TWO CHANNEL
MUSIC REPRODUCING SYSTEMS OR FOR INDEPENDENT USE IN
ANNOUNCING SYSTEMS.
FREQUENCY RESPONSE WITH 31A, 32A, KS-12024, KS-12025, KS-12027
HORNS - 500 - 6500 CYCLES/SECOND
VOICE COIL IMPEDANCE - 16 OHMS
POWER HANDLING CAPABILITY - 25 WATTS
SOUND LEVEL AT DISTANCE OF 30 FEET ON THE AXIS
AT RATED POWER - WITH 31A HORN - 93 DB
WITH 32A HORN - 95 DB
WITH KS-12024 HORN - 98 DB
WITH KS-12025 HORN - 96 DB
WITH KS-12027 HORN - 95 DB
DIMENSIONS - 4 1/16 INCHES X 2 3/4 INCHES
WEIGHT - 3 POUNDS



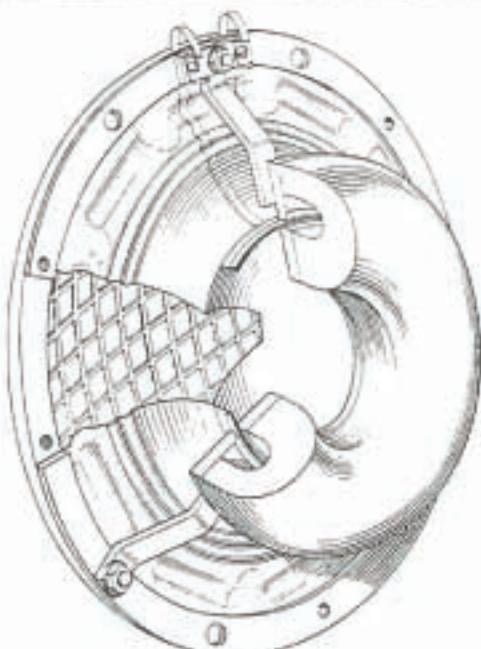
728B LOUD SPEAKER

USE - INTENDED FOR HIGH QUALITY REPRODUCTION OF SOUND FOR RADIO MONITORING OF SPEECH AND MUSIC, AND FOR MUSIC REPRODUCTION AND PUBLIC ADDRESS SYSTEMS.
POWER HANDLING CAPABILITY - 30 WATTS CONTINUOUS
FREQUENCY RESPONSE - 60 - 10,000 CYCLES/SECOND
SOUND LEVEL - (WITH WARBLE FREQUENCY SOURCE 500 - 2400 CPS AT LEVEL ABOVE 10^{-16} WATTS PER SQ. CM. AT 30' ON AXIS AT POWER INDICATED) 93.5 DB
ANGLE OF COVERAGE - 50 DEGREES
RECOMMENDED SPEAKER ENCLOSURE (TOTAL ENCLOSURE) - 3 CU. FT.
DIAMETER - (OVERALL) 12 11/32 INCHES
DEPTH (OVERALL) - 3 25/32 INCHES
WEIGHT - 17 POUNDS - VOICE COIL IMPEDANCE - 4 OHMS
BAFFLE HOLE DIAMETER - 10 15/16 INCHES
MOUNTING HOLES - FOUR EQUALLY SPACED ON 11 9/16 INCHES DIAMETER



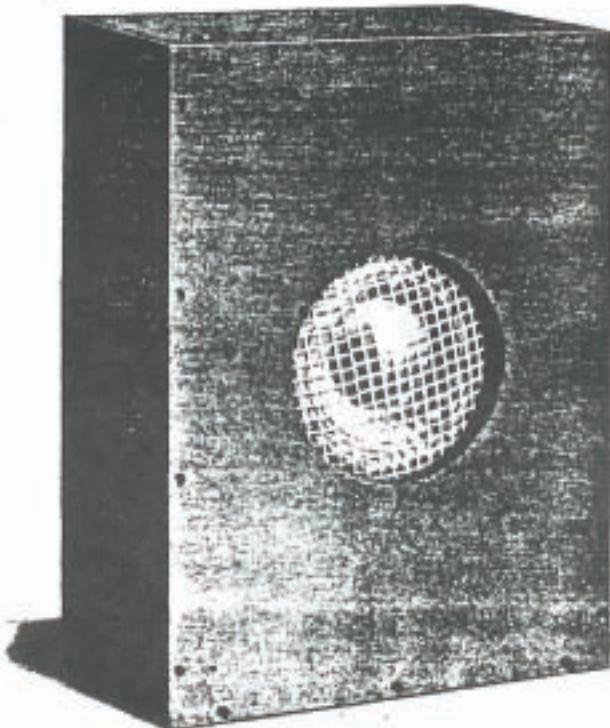
750A LOUD SPEAKING TELEPHONE

USE - BROADCAST MONITOR
NATURE - FORMED METAL DIAPHRAGM
DIAMETER - 9 1/2 INCHES
FREQ. RES. - 60 - 10,000 CPS
DISPERSION - 45 DEGREES
POWER HANDLING CAPABILITY - 20 WATTS
DEPTH - 3 3/4 INCHES
WEIGHT - 9 POUNDS



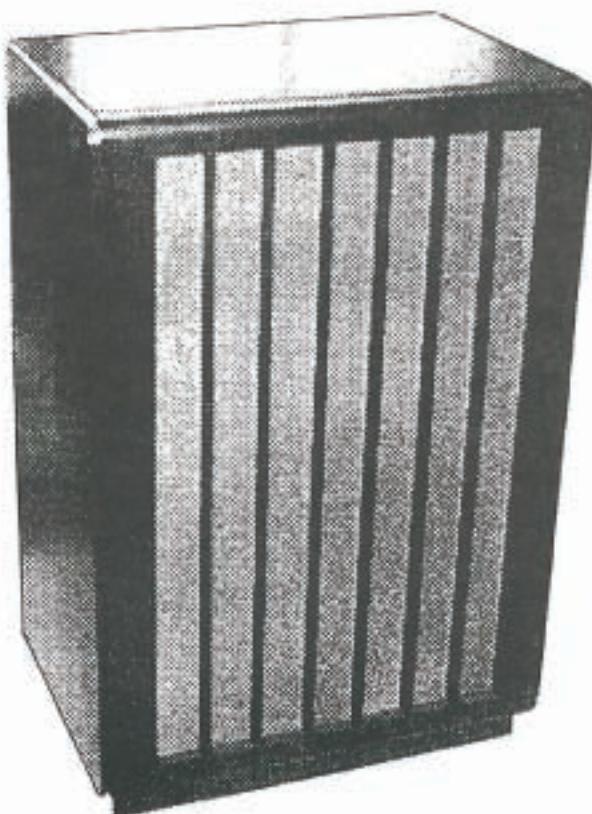
751A LOUD SPEAKING TELEPHONE

DIMENSIONS - 24 INCHES HIGH X 18 INCHES WIDE X 13 1/2 INCHES DEEP.
WEIGHT - 42 POUNDS
DRIVER - 1 750A RECEIVER



753A LOUD SPEAKING TELEPHONE SYSTEM

USE - DESIGNED FOR P.A. AND MUSIC
REPRODUCTION
CONTAINS - KS-12004 (15 INCH) L.S. +
722A RECEIVER + 32A HORN +
752A LOUD SPEAKING TELEPHONE
NETWORK D-173048
NETWORK D-173049
CABINET - 20 INCHES WIDE X 30 INCHES
HIGH X 13.5 INCHES DEEP
HOR. DISP. - 90 DEGREES
VERT. DISP. - 60 DEGREES
FREQ. RESP. - 60 - 15,000 C.P.S.
AC IMPEDANCE - 16 OHMS
EFFICIENCY - WITH 25 WATT AMPLIFIER,
73 DB ABOVE 10^{-16} WATT/
SQ. CM @ 100 FEET ON THE
AXIS OF THE LOUD SPEAKER



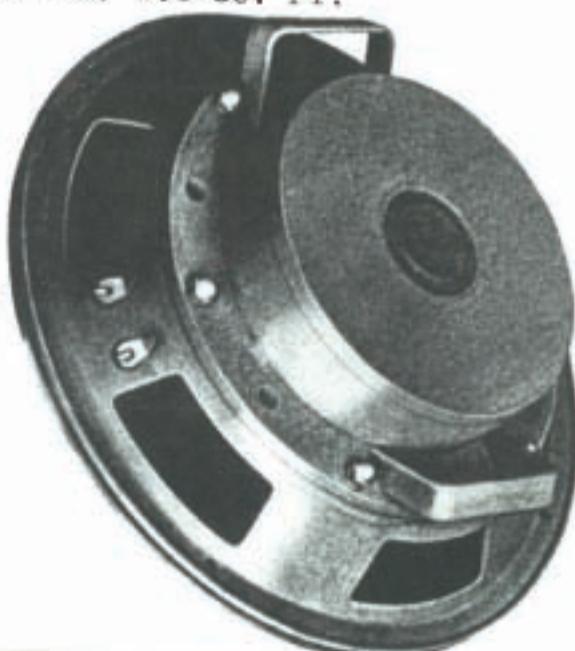
754A LOUD SPEAKER

USE - PUBLIC ADDRESS; SOUND DISTRIBUTION
POWER HANDLING CAPABILITY - 15 WATTS CONTINUOUS
FREQUENCY RESPONSE - 60 - 10,000 CYCLES/SECOND
SOUND LEVEL - (WITH WARBLE FREQUENCY SOURCE 500 - 2500 CPS AT
LEVEL ABOVE 10^{-16} WATTS PER SQ. CM. AT 30 FEET
ON AXIS AT POWER INDICATED) 94 DB
ANGLE OF COVERAGE - 50 DEGREES
RECOMMENDED SPEAKER ENCLOSURE - (TOTAL ENCLOSURE) - 3 CU. FEET
DIAMETER (OVERALL) - 12 11/32 INCHES
DEPTH (OVERALL) - 3 3/4 INCHES
WEIGHT - 17 POUNDS
BAFFLE HOLE DIAMETER - 10 15/16 INCHES
MOUNTING HOLES - SAME AS 728B
FINISH - GRAY CRINKLE
DIMENSIONS ENCLOSURE - 23 3/4 INCHES HEIGHT
21 INCHES WIDTH
TOP DEPTH 9 1/4 INCHES
BOTTOM DEPTH 12 3/8 IN.
VOICE COIL IMPEDANCE - 4 OHMS



754B LOUD SPEAKER (PHENOLIC DIAPHRAGM)

USE - PROGRAM DISTRIBUTION; PUBLIC ADDRESS; SHIPBOARD INSTALLATIONS;
ESPECIALLY DESIGNED FOR OUTDOOR USE
POWER HANDLING CAPABILITY - 50 WATTS CONTINUOUS
FREQUENCY RESPONSE - 60 - 10,000 CYCLES/SECOND
SOUND LEVEL - (WITH WARBLE FREQUENCY SOURCE 500 - 2500 CPS AT
LEVEL ABOVE 10^{-16} WATTS PER SQ. CM. AT 30 FEET
ON AXIS AT POWER INDICATED) 94DB
ANGLE OF COVERAGE - 50 DEGREES
RECOMMENDED SPEAKER ENCLOSURE (TOTAL ENCLOSURE) 2.5 CU. FT.
DIAMETER (OVERALL) - 12 11/32 INCHES
DEPTH (OVERALL) - 3 3/4 INCHES
WEIGHT - 17 POUNDS
BAFFLE HOLE DIAMETER - 10 15/16 INCHES
MOUNTING HOLES - SAME AS 728B
VOICE COIL IMPEDANCE - 4 OHMS
DIMENSIONS ENCLOSURE - WIDTH 19 INCHES
HEIGHT - 22 INCHES
TOP DEPTH - 8 7/8 INCHES
BOTTOM DEPTH - 11 13/16 INCHES



755A LOUD SPEAKER

USE - RADIO SETS; WIRED PROGRAM; GENERAL UTILITY; PROGRAM DISTRIBUTION; BROADCAST STATION MONITORING

POWER HANDLING CAPABILITY - 8 WATTS

FREQUENCY RESPONSE - 70 TO 13,000 CYCLES/SECOND

SOUND LEVEL - (WITH WARBLE FREQUENCY SOURCE 500 TO 2500 CPS AT LEVEL ABOVE 10^{-16} WATTS PER SQ. CM. AT 30 FT. ON AXIS AT POWER INDICATED) - 81.5 DB

ANGLE OF COVERAGE - 70 DEGREES

RECOMMENDED SPEAKER ENCLOSURE (TOTAL ENCLOSURE) - 2 CU. FT.

DIAMETER (OVERALL) - 8 3/8 INCHES

DEPTH (OVERALL) - 3 1/8 INCHES

WEIGHT (LBS.) - 4 3/4

BAFFLE HOLE DIAMETER - 7 INCHES

MOUNTING HOLES - FOUR EQUALLY SPACED ON 7 5/8 INCHES DIAMETER

VOICE COIL IMPEDANCE - 4 OHMS



755AA LOUD SPEAKING TELEPHONE SYSTEM

USE - WIRED PROGRAM; GENERAL UTILITY; PROGRAM DISTRIBUTION; BROADCAST STATION MONITORING

NOTE - COMPOSED OF KS 12035 CABINET AND KS 14703 LOUD SPEAKER

SIZE - 11 1/2 IN. (W) X 18 IN. (H) X 6 IN. (D) AT TOP AND 9 INCHES (D) AT BOTTOM



756A LOUD SPEAKER

USE - RADIO SETS; WIRED PROGRAM; GENERAL UTILITY

POWER HANDLING CAPABILITY - 20 WATTS CONTINUOUS

FREQUENCY RESPONSE - 65 TO 10,000 CYCLES/SECOND

VOICE COIL IMPEDANCE - 4 OHMS

SOUND LEVEL - (WITH WARBLE FREQUENCY SOURCE 500 TO 2500 CPS AT LEVEL ABOVE 10^{-16} WATT PER SQ. CM. AT 30 FT. ON AXIS AT POWER INDICATED) - 89.5 DB

ANGLE OF COVERAGE - 60 DEGREES

RECOMMENDED SPEAKER ENCLOSURE (TOTAL ENCLOSURE) - 2 1/2 CU. FT.

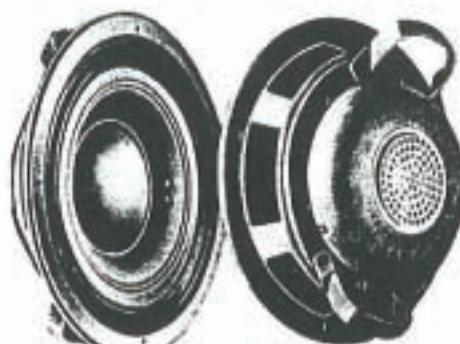
DIAMETER (OVERALL) - 10 1/4 INCHES

DEPTH (OVERALL) - 3 1/4 INCHES

WEIGHT (LBS.) - 10

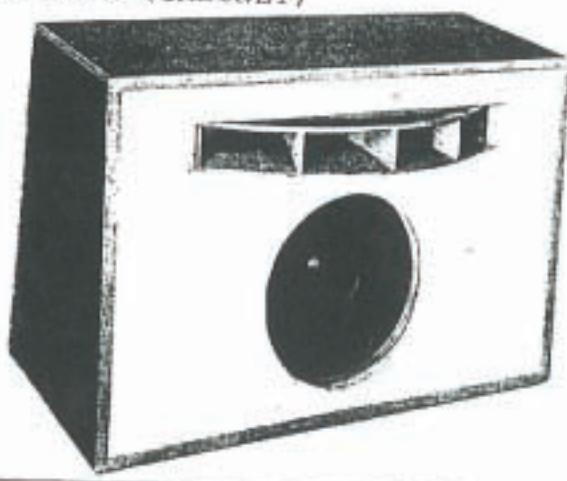
BAFFLE HOLE DIAMETER - 8 13/16 INCHES

MOUNTING HOLES - FOUR EQUALLY SPACED ON 9 5/8 INCHES DIAMETER.



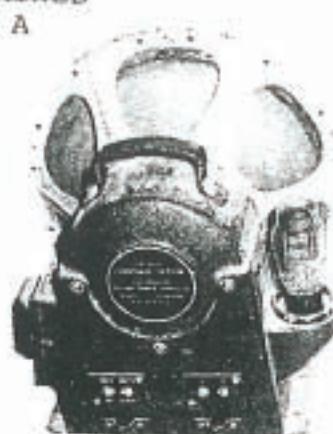
757A LOUD SPEAKER SYSTEM

USE - WIRED PROGRAM; RECORDING STUDIOS; PROGRAM DISTRIBUTION;
BROADCAST STATION MONITORING
POWER HANDLING CAPABILITY - 30 WATTS SPEECH AND MUSIC PEAKS
FREQUENCY RESPONSE - 60 - 15,000 CYCLES/SECOND
SOUND LEVEL - (WITH WARBLE FREQUENCY SOURCE 500 - 2500 CPS
AT LEVEL ABOVE 10^{-16} WATTS PER SQ. CM. AT
30 FEET ON AXIS AT POWER INDICATED) - 93 DB
ANGLE OF COVERAGE - 90 DEGREES
RECOMMENDED SPEAKER ENCLOSURE (TOTAL ENCLOSURE) - 3 CU. FT.
(ENCLOSURE FURNISHED WITH SYSTEM)
DIAMETER (OVERALL) - 30 1/2 INCHES WIDTH (CABINET)
13 3/4 INCHES (CABINET) 20 INCHES HEIGHT (CABINET)
WEIGHT - 82 POUNDS (COMPLETE UNIT)
CONTAINS - 728B LOUD SPEAKER, 713C
RECEIVER, KS-12027 HORN
702A NETWORK AND CABINET



TA 4151 LOUD SPEAKING TELEPHONE

DESCRIPTION - DYNAMIC, 11 1/2 INCH DIAPHRAGM, MOUNTS ON FLAT BAFFLE
USE - LOW FREQUENCY UNIT, WIDE RANGE SYSTEMS & TA-7272
LOUD SPEAKING TELEPHONE OUTFIT
SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
6 OHMS DC / 10.5 OHMS (2-MIN) 300 C.P.S. - 15 WATTS
VOLTS - 105-125 AC 50 - 60 CYCLES
POWER SUPPLY - .5 AMPS / 60 WATTS
DIMENSIONS - 13 3/4 INCHES HEIGHT
13 5/16 INCHES WIDTH
8 7/8 INCHES DEPTH
WEIGHT - 43 POUNDS
NOTE - HAS A SELF CONTAINED
RECTIFIER USING A
W.E. 274A TUBE



TA 4151A LOUD SPEAKING TELEPHONE

DESCRIPTION - SAME AS TA 4151 EXCEPT HAS IMPROVED DIAPHRAGM
FOR MORE UNIFORM FREQUENCY RESPONSE.

USE - LOW FREQUENCY UNIT, WIDE RANGE SYSTEMS & TA 7272-A LOUD
SPEAKING TELEPHONE UNIT

SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
6 OHMS DC & 10.5 OHMS (Z-MIN) 300 CPS 15 WATTS

VOLTS - 105 - 120 AC / 50 - 60 CYCLES

POWER SUPPLY - .5 AMP / 60 WATTS

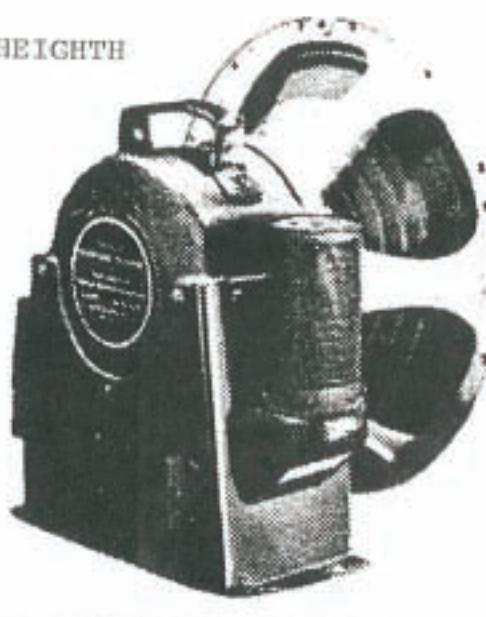
DIMENSIONS (OVERALL) - 13 3/4 INCHES - HEIGHT

13 5/16 INCHES - WIDTH

8 7/8 INCHES - DEPTH

WEIGHT - 43 POUNDS

NOTE - HAS A SELF CONTAINED
RECTIFIER USING A
W.E. 274A TUBE



TA 4153 LOUD SPEAKING TELEPHONE

DESCRIPTION - DYNAMIC, 11 1/2 INCH "TIM-FLEX" DIAPHRAGM, MOUNTS
ON FLAT BAFFLE

USE - L.F. UNIT, WIDE RANGE SYSTEMS

SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
6 OHMS DC / 10.5 OHMS (Z-MIN) 300 CPS 15 WATTS

FIELD COIL - DC RES. OHMS - 460

VOLTS - 105 - 125 DC

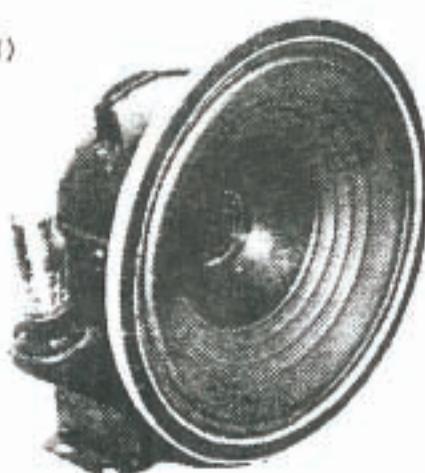
POWER SUPPLY - .25 AMPS / 35 WATTS

DIMENSIONS (OVERALL) - 13 3/4 INCHES (H)

13 5/16 INCHES (W)

8 7/8 INCHES (D)

WEIGHT (LBS.) - 30



TA 4153A LOUD SPEAKING TELEPHONE

DESCRIPTION - SAME AS TA 4153 EXCEPT HAS IMPROVED DIAPHRAGM FOR
MORE UNIFORM FREQUENCY RESPONSE
USE - LF UNIT, WIDE RANGE SYSTEMS
SPEECH COIL - RESISTANCE (OHMS) & MAX CONTINUOUS INPUT (WATTS) -
6 OHMS DC / 10.5 OHMS (Z-MIN) 300 CPS / 15 WATTS
FIELD COIL - DC RES. (OHMS) - 460
VOLTS - 105 - 125 DC
POWER SUPPLY - .25 AMPS / 35 WATTS
DIMENSIONS - 13 3/4 INCHES (H)
13 5/16 INCHES (W)
8 7/8 INCHES (D)
WEIGHT (LBS.) - 30

TA 4154 LOUD SPEAKING TELEPHONE

DESCRIPTION - DYNAMIC, 9 5/8 INCH DIAPHRAGM, MOUNTS IN KS-7130
CARRYING CASE
USE - D-94675 TYPE LOUD SPEAKING TELEPHONE OUTFIT; SUPERSEDES
TA-7109
SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
5.5 OHMS DC
FIELD COIL - DC RES. (OHMS) - 2150
VOLTS - 150 DC
POWER SUPPLY - .054 AMPS / 6.25 WATTS
DIMENSIONS - 13 INCHES DIAMETER
6 INCHES DEEP
WEIGHT (LBS.) - 7 1/2

TA 4165 LOUD SPEAKING TELEPHONE

DESCRIPTION - DYNAMIC, PLAIN PAPER DIAPHRAGM. MOUNTS ON FLAT
BAFFLE, 10 1/2 INCHES DIAMETER ROLE, EQUIPPED
FOR DIFFUSER
USE - FULL RANGE UNIT, SMALL SYSTEMS
SPEECH COIL - DC RES. (OHMS) - 5.7 OHMS DC / 8 OHMS (Z-MIN)
400 CPS / 10 WATTS
FIELD COIL - DC RES. (OHMS) - 2700
VOLTS - 105 - 125 AC / 50 -60 CYCLES
POWER SUPPLY - .41 AMPS / 50 WATTS
DIMENSIONS - 12 INCHES DIAMETER, 12 1/4 INCHES (W), 8 INCHES (D)
WEIGHT (LBS) - 25 POUNDS

TA 4166 LOUD SPEAKING TELEPHONE

DESCRIPTION - DYNAMIC PLAIN PAPER DIAPHRAGM, MOUNTS ON FLAT BAFFLE, 10 1/2 INCH DIAMETER HOLE, EQUIPPED FOR DIFFUSER.

USE - FULL RANGE UNIT, SMALL SYSTEMS

SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
5.7 OHMS DC / 8 OHMS (Z-MIN) 400 CYCLES PER SECOND/
10 WATTS

FIELD COIL - DC RES. (OHMS) - 860 (547 WITH 1500 SHUNT)

VOLTS - 105 - 125 DC

POWER SUPPLY - .23 AMPS / 28 WATTS

DIMENSIONS - 12 INCHES DIAMETER / 12 1/4 INCH (H) X 8 INCHES (D)

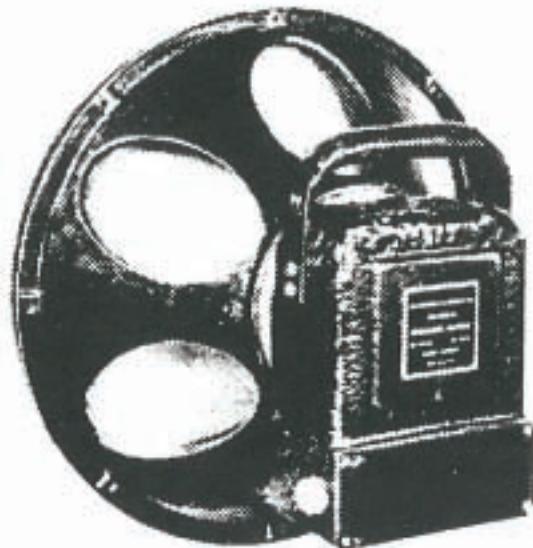
WEIGHT - 16 POUNDS

TA 4172 LOUD SPEAKING TELEPHONE

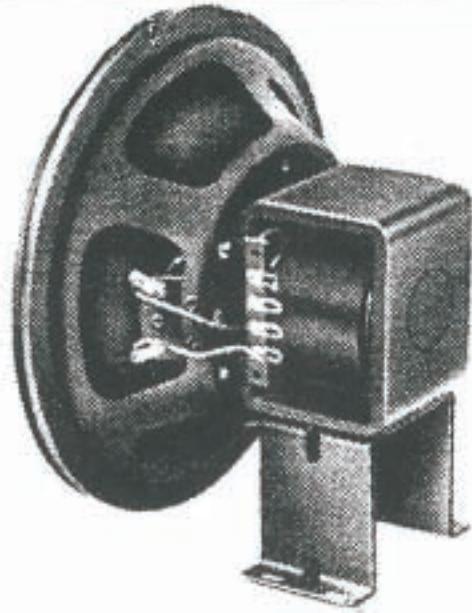


TA 4181 LOUD SPEAKING TELEPHONE

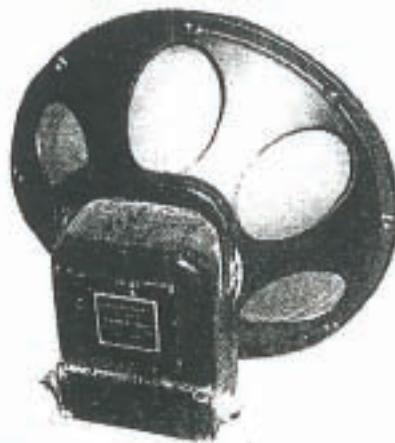
CONE DIAMETER - 18 INCHES



TA 4189 LOUD SPEAKING TELEPHONE, DYNAMIC

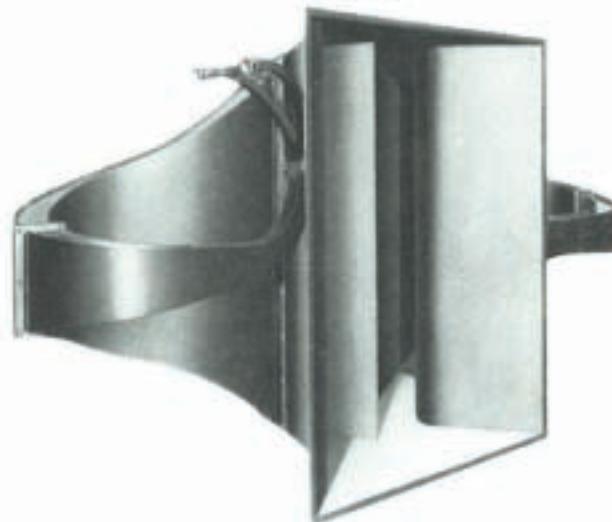


TA 4194A LOUD SPEAKING TELEPHONE, DYNAMIC



6116A HORN

SEE - 16A HORN



KS-6353 HORN

USE - STAGE
DESCRIPTION - CURVED (FABRIC)
AIR. COL. LENGTH - 14 FEET
HOR. COVERAGE - 30 DEGREES
VERT. COVERAGE - 40 DEGREES
REQUIRES - ONE 555 RECEIVER
DIMENSIONS - 69 3/4 INCHES (H)
56 5/8 INCHES (W)
53 INCHES (D)
WEIGHT (LBS.) - 100

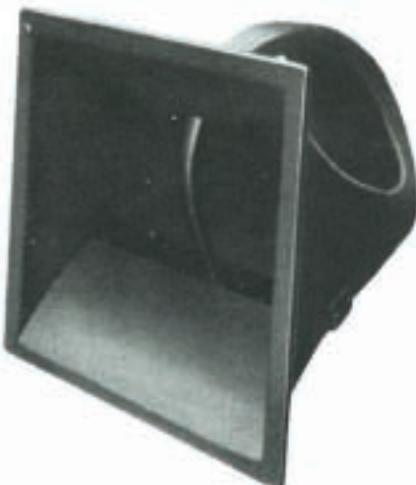
KS-6368 HORN

USE - MONITOR
DESCRIPTION - CURVED (FABRIC)
AIR. COL. LENGTH - 2 FEET 6 INCHES
HOR. COVERAGE - 30 DEGREES
REQUIRES - ONE 555 RECEIVER
DIMENSIONS - 16 5/8 INCHES (H)
11 INCHES (W)
12 INCHES (D)
WEIGHT (LBS.) - 7



KS-6373 HORN

USE - P.A. & STAGE
DESCRIPTION - CURVED (FABRIC)
AIR. COL. LENGTH - 6 FEET
HOR. COVERAGE - 30 DEGREES
VERT. COVERAGE - 40 DEGREES
REQUIRES - ONE 555 RECEIVER
DIMENSIONS - 29 3/4 INCHES (H)
29 3/4 INCHES (W)
26 7/8 INCHES (D)
WEIGHT (LBS.) - 24



KS-6575 HORN

USE - STAGE - REPLACED BY 16A
DESCRIPTION - FOLDED (FABRIC)
AIR COL. LENGTH - 10 FEET
HOR. COVERAGE - 55 DEGREES
VERT. COVERAGE - 55 DEGREES
REQUIRES - TWO 555 RECEIVERS
DIMENSIONS - 29 3/4 INCHES (H)
 29 3/4 INCHES (W)
 26 7/8 INCHES (D)
WEIGHT (LBS.) - 24

KS-6576 HORN

USE - STAGE - REPLACED BY 16A
DESCRIPTION - FOLDED (FABRIC)
AIR. COL. LENGTH - 10 FEET
HOR. COVERAGE - 55 DEGREES
VERT. COVERAGE - 55 DEGREES
REQUIRES - FOUR 555 RECEIVERS
DIMENSIONS - 84 3/4 INCHES (H)
 102 3/8 INCHES (W)
 24 INCHES (D)
WEIGHT (LBS.) - 375

KS-7109 LOUD SPEAKING TELEPHONE

DESCRIPTION - DYNAMIC, 9 1/2 INCH PAPER DIAPHRAGM, MOUNTS IN
KS-7130 CARRYING CASE
USE - D-94675 TYPE LOUD SPEAKING TELEPHONE OUTFITS; SUPERSEDED
BY TA-4154
SPEECH COIL - RESISTANCE (OHMS) & MAX. CONTINUOUS INPUT (WATTS)
 5.5 OHMS DC
FIELD COIL - DC RES. (OHMS) - 2300
VOLTS - 115 DC
POWER SUPPLY - .05 AMPS / 5.75 WATTS
DIMENSIONS - 13 INCHES DIAMETER, 6 INCHES DEEP
WEIGHT (LBS.) - 7 1/2

TA-7179 LOUD SPEAKING TELEPHONE, DYNAMIC

DESCRIPTION - DYNAMIC, 9 3/8 INCHES DIAPHRAGM, MOUNTS ON FLAT AND IS BOX BAFFLED
USE - STAGE AND MONITOR IS 4A-30, 4A-41, 4A-46 and I.D.S. SYSTEMS
SPEECH COIL - DC RES. (OHMS) & MAX. CONTINUOUS INPUT (WATTS) -
5.5 OHMS DC
FIELD COIL - DC RES. (OHMS) - 40
VOLTS - 20 DC
POWER SUPPLY - 0.5 AMPS / 10 WATTS
DIMENSIONS (OVERALL) - 13 INCHES DIAMETER
6 INCHES DEEP
WEIGHT (LBS.) - 9 1/2

TA-7272 LOUD SPEAKING TELEPHONE

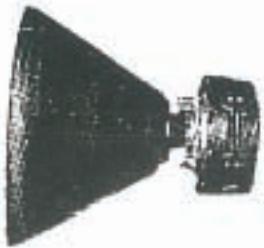
DESCRIPTION - TA-4151 LOUD SPEAKING TELEPHONE IN TA-4157 CARRYING CASE
USE - SPECIAL MP-16 SYSTEMS
VOLTS - 105 - 125 AC / 50 - 60 CYCLES
POWER SUPPLY - .5 AMPS / 60 WATTS
DIMENSIONS (OVERALL) - 25 1/2 INCHES (H)
32 INCHES (W)
10 3/4 INCHES (D)
WEIGHT (LBS.) - 84 1/2

TA-7272A LOUD SPEAKING TELEPHONE

DESCRIPTION - TA-4151-A LOUD SPEAKING TELEPHONE; A-596-A (OR A-597-A)
LOUD SPEAKING TELEPHONE & D-95184 NETWORK; IN TA-4157
CARRYING CASE
USE - SPECIAL DEMONSTRATING SYSTEMS WITH TA-7259 REPRODUCER SET
VOLTS - 105 - 125 AC / 50 - 60 CYCLES
POWER SUPPLY - .5 AMPS / 60 WATTS
DIMENSIONS (OVERALL) - 25 1/2 INCHES (H)
32 INCHES (W)
10 3/4 INCHES (D)
WEIGHT (LBS.) - 95

TA 7322 HORN

REQUIRES - ONE 555 RECEIVER



TA-7395 BAFFLE

DESCRIPTION & USE - HORN TYPE. USED WITH ONE TA-4194 LOUD SPEAKER FOR L.F. IN 40 SYSTEM

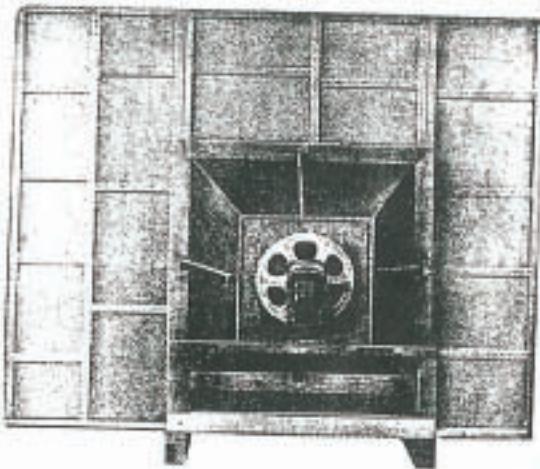
APPROXIMATE OVERALL DIMENSIONS INCLUDING LOUD SPEAKERS -

7 FEET 7 INCHES (H)

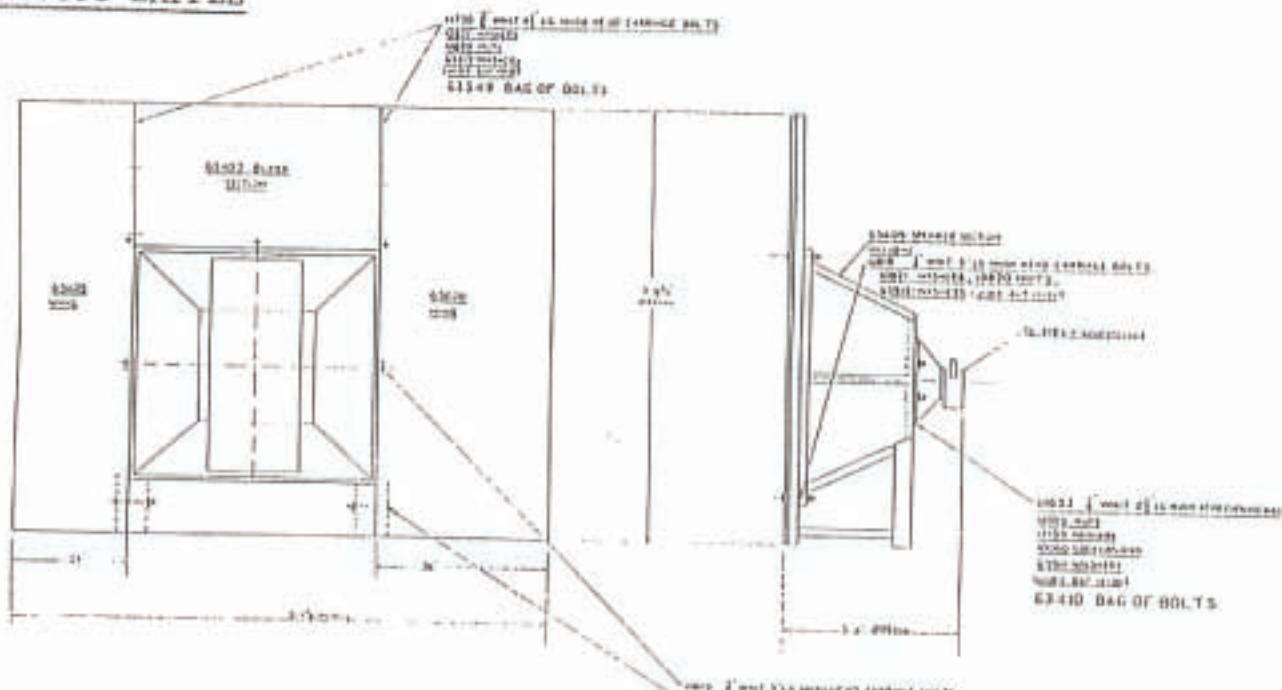
9 FEET 2 INCHES (W)

3 FEET 1 INCH (D)

APPROXIMATE WEIGHT INCLUDING LOUD SPEAKERS - 325 POUNDS



TAE-7395 BAFFLE

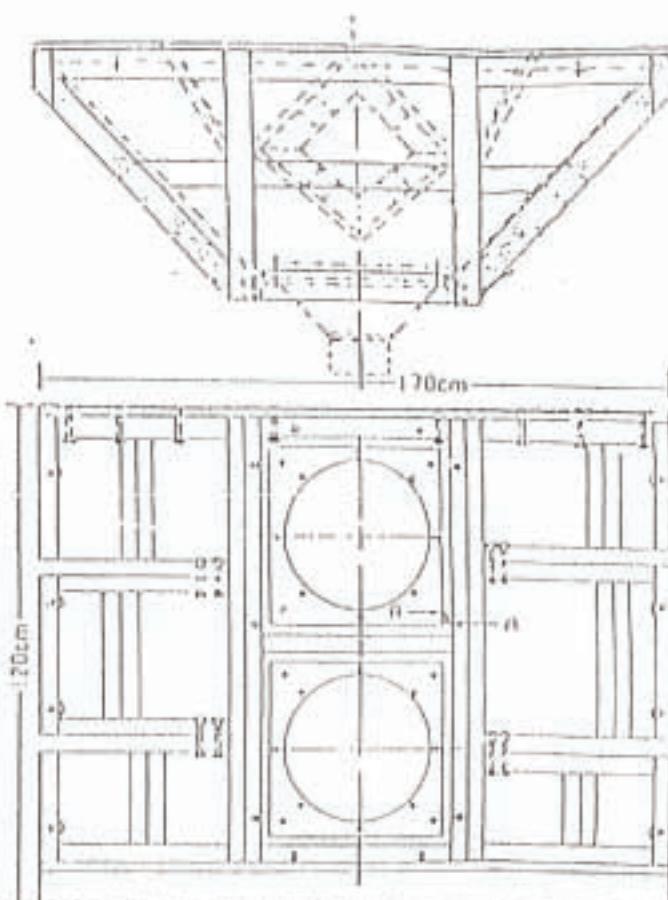
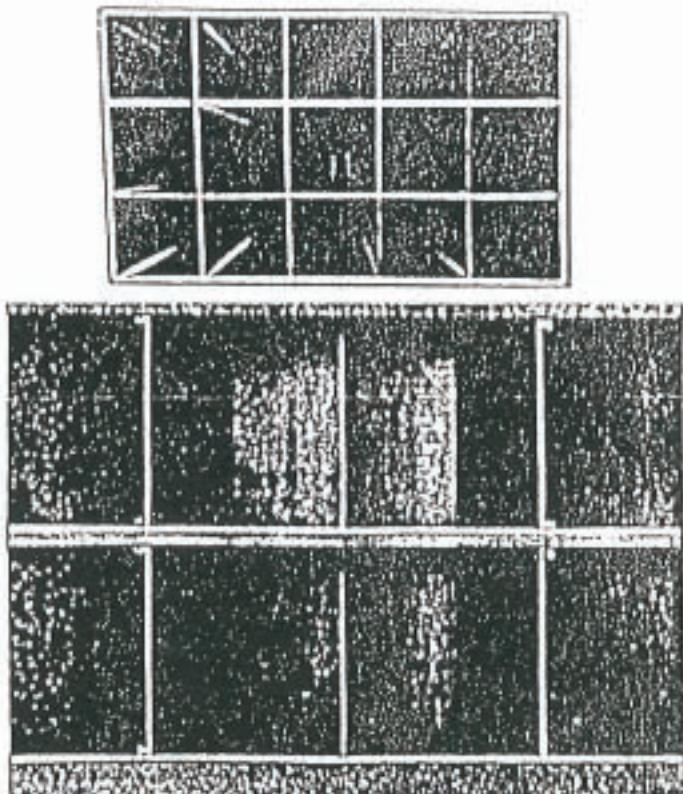


TA-7396 BAFFLE

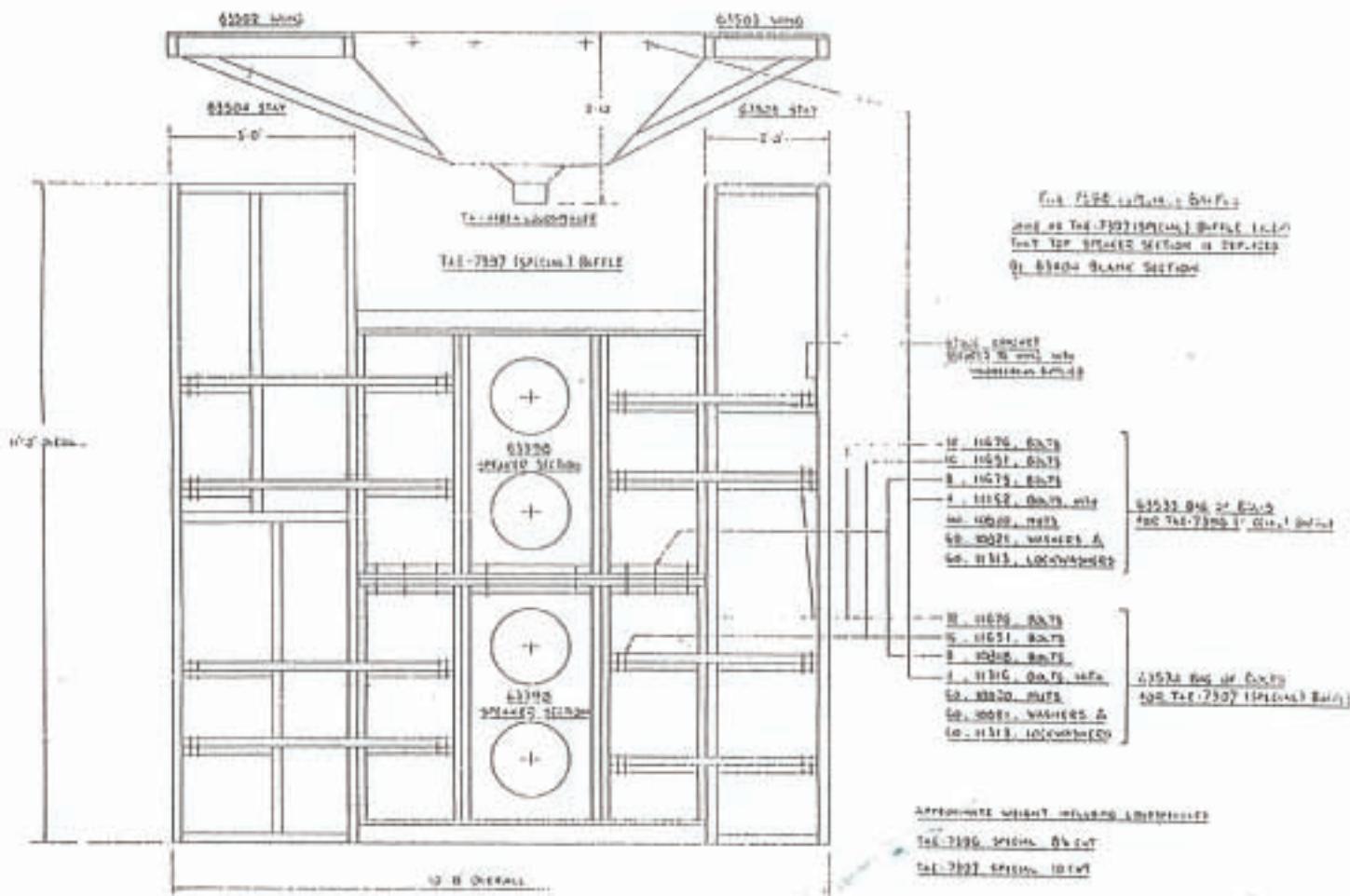
DESCRIPTION & USE - HORN TYPE. USED WITH TWO TA-4181 LOUD SPEAKERS FOR L.F. IN MEDIUM SIZED MIRROPHONIC SYSTEMS (D-5)
APPROXIMATE OVERALL DIMENSIONS INCLUDING LOUD SPEAKERS
8 FEET 10 INCHES (H)
11 FEET 0 INCHES (W)
2 FEET 10 INCHES (D)
APPROXIMATE WEIGHT INCLUDING LOUD SPEAKERS - 800 POUNDS

D-5 DI-PHONIC SPEAKER SYSTEM

25-A H.F. Horn above
TA-7396 L.F. Baffle below



TAE-7396 BAFFLE



TA-7397 BAFFLE

DESCRIPTION & USE - HORN TYPE

USED WITH FOUR TA-4181 LOUD SPEAKERS
FOR LOW FREQUENCY IN LARGE
MIRROPHONIC SYSTEMS

APPROXIMATE OVERALL DIMENSIONS INCLUDING LOUD SPEAKERS.

8 FEET 10 INCHES (H)

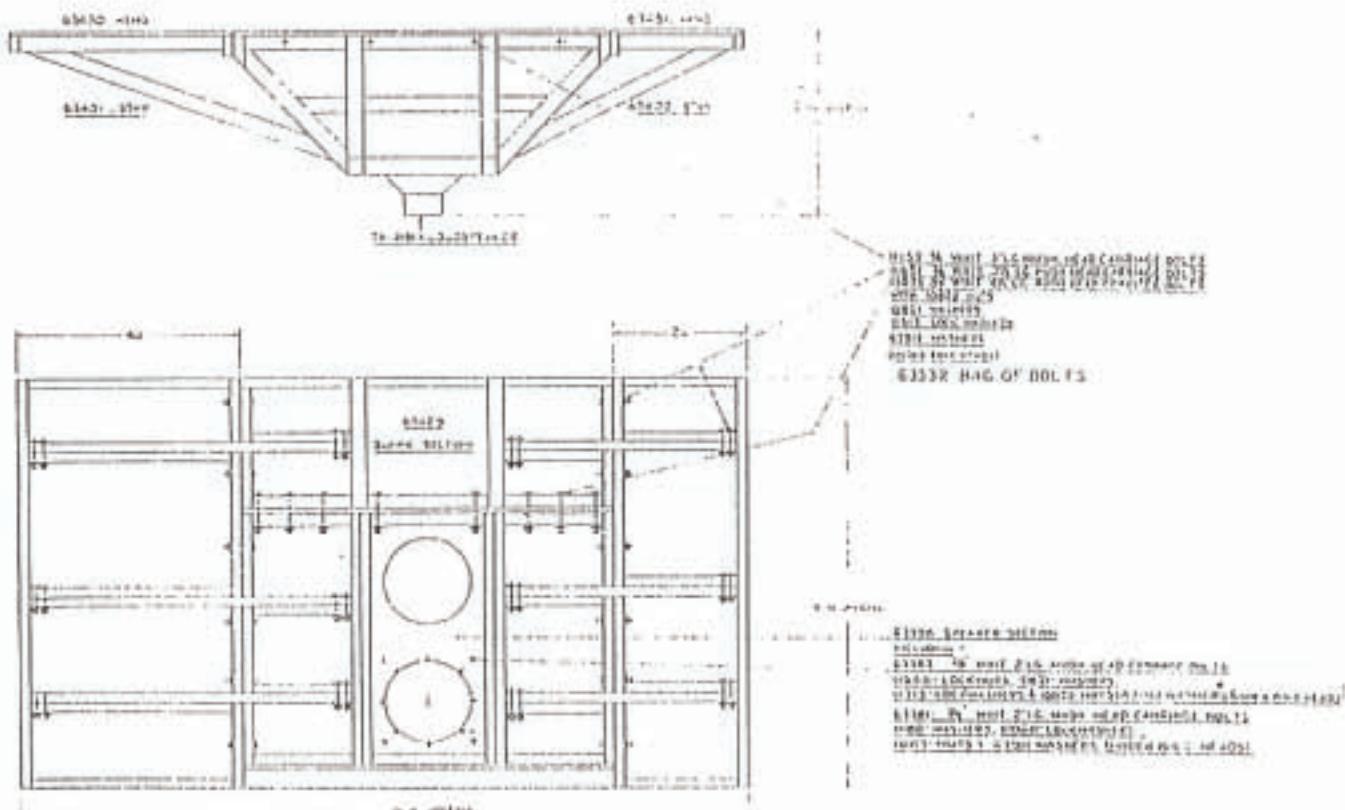
11 FEET 0 INCHES (W)

2 FEET 9 INCHES (W)
2 FEET 10 INCHES (P)

APPROXIMATE WEIGHT INCLUDING LOUD SPEAKERS

ENCODING E
975 BOUNDS

TAE-7401 BAFFLE



KS 12024 SECTORAL HORN

DIMENSIONS - 16 1/2 INCHES (LONG)
13 5/16 INCHES (WIDE)
6 3/8 INCHES (HIGH)

WEIGHT = 7 POUNDS

FINISH = DURABLE BLACK

HOB. DISP. = 50 DEGREES

VERT. DISP. = 40 DEGREES

USE - EXPONENTIAL TYPE FOR SPEECH
AND MUSIC REPRODUCTION IN SOUND
REINFORCEMENT SYSTEMS.

**REINFORCEMENT SYSTEMS:
REQUIRER - 713 OR 730 TYPE RECEIVER**

FREQUENCY RESPONSE - WITH 713B RECEIVER 800 - 10,000 CPS

WITH 713B RECEIVER, 800 = 15,000 CPS

WITH 713C RECEIVER, 800 - 15,000 CPS
WITH 330A RECEIVER, 500 - 6,500 CPS

WITH 720A RECEIVER

100 dB WITH 713B RECEIVER
86 dB WITH 713C RECEIVER

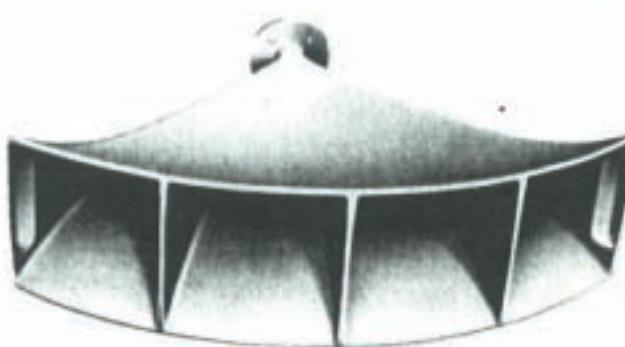
96 BB WITH 713C RECEIVER
103 BB WITH 330A RECEIVER

103 DB WITH 720A RECEIVER

SENSITIVITY LEVELS ARE ABOVE A REFERENCE LEVEL OF 10^{-10} WATT/SQ. CM @ DISTANCE OF 30 FT. ON THE AXIS OF THE HORN

KS 12025 SECTORAL HORN

DIMENSIONS - 19 INCHES (LONG)
23 21/32 INCHES (WIDE)
6 3/8 INCHES (HIGH)
WEIGHT - 12 POUNDS
FINISH - DURABLE BLACK
HOR. DISP. - 80 DEGREES
VERT. DISP. - 40 DEGREES
USE - EXPONENTIAL TYPE FOR SPEECH
AND MUSIC REPRODUCTION IN SOUND
REINFORCEMENT SYSTEMS.
REQUIRES - 713 OR 720 TYPE RECEIVER



FREQUENCY RESPONSE - WITH 713B RECEIVER, 800 - 10,000 CPS
WITH 713C RECEIVER, 800 - 15,000 CPS
WITH 720A RECEIVER, 500 - 6,500 CPS
SENSITIVITY - 98 DB WITH 713B RECEIVER
94 DB WITH 713C RECEIVER
101 DB WITH 720A RECEIVER
SENSITIVITY LEVELS ARE ABOVE A REFERENCE LEVEL OF 10^{-16}
WATT/SQ. CM @ DISTANCE OF 30 FT. ON THE AXIS OF THE HORN

KS 12027 SECTORAL HORN

DIMENSIONS - 13 1/2 INCHES (LONG)
19 5/16 INCHES (WIDE)
2 19/16 INCHES (HIGH)
WEIGHT - 10 POUNDS
FINISH - GRAY ENAMEL
HOR. DISP. - 90 DEGREES
VERT. DISP. - 90 DEGREES
USE - EXPONENTIAL TYPE FOR SPEECH
AND MUSIC REPRODUCTION IN SOUND
REINFORCEMENT SYSTEMS.



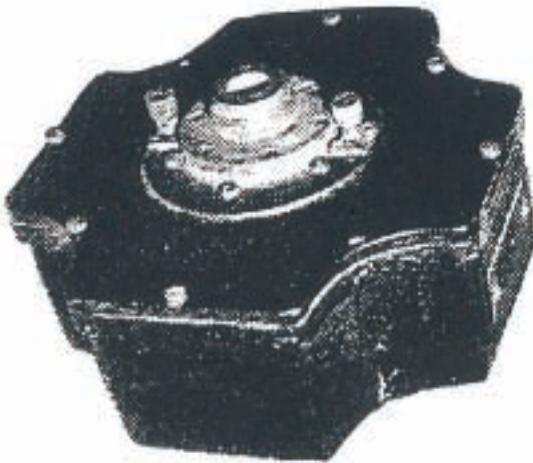
REQUIRES - 713C OR 720A RECEIVER
FREQUENCY RESPONSE - WITH 713C RECEIVER, 800 - 15,000 CPS
WITH 720A RECEIVER, 500 - 6,500 CPS
SENSITIVITY - 93 DB WITH 713C
100 DB WITH 720A
SENSITIVITY LEVELS ARE ABOVE A REFERENCE LEVEL OF 10^{-16}
WATT/SQ. CM @ DISTANCE OF 30 FT. ON THE AXIS OF THE HORN

KS 14703 LOUD SPEAKER

NOTE - SEE 755A

30150-B RECEIVER

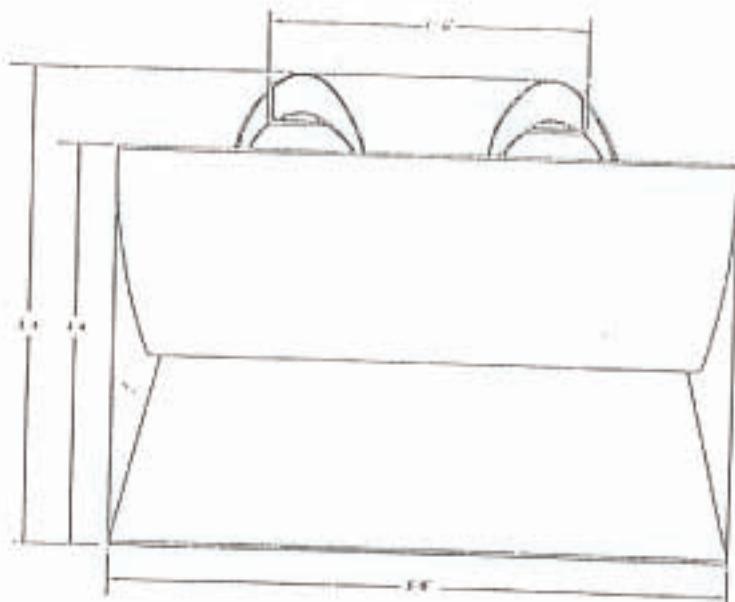
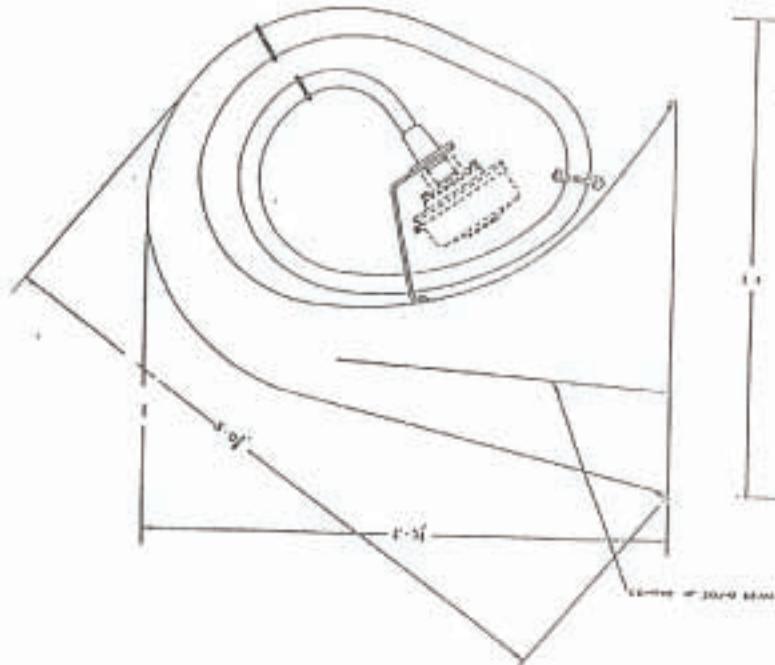
NOTE - ENGLISH MANUFACTURE



30154 TYPE HORN

USE - STAGE

NOTE - ENGLISH MANUFACTURE



30154-D HORN

DESCRIPTION & USE - EXPONENTIAL, STEEL, HAS
SINGLE THROAT FOR ONE 555 OR 30150-B
RECEIVER. USED WITH S.A. EQUIPMENT.

APPROXIMATE DISTRIBUTION ANGLES - HORIZONTAL - 30 DEGREES
VERTICAL - 25 DEGREES

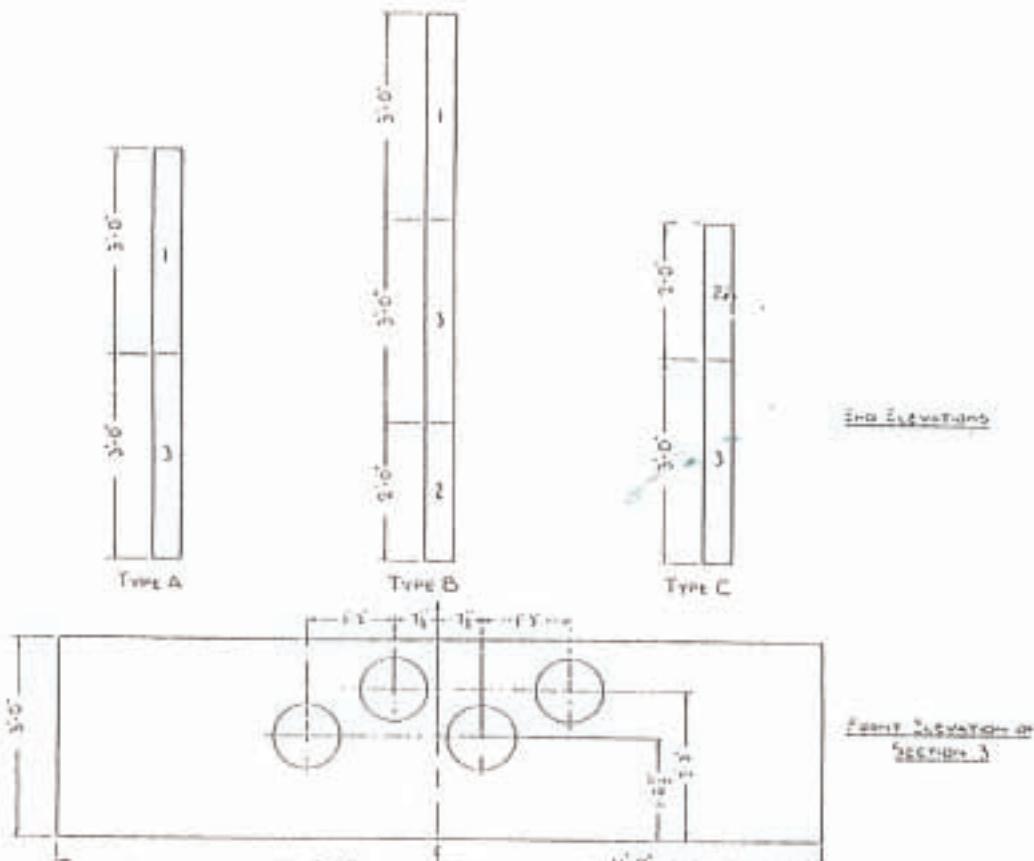
APPROXIMATE WEIGHT INCLUDING LOUD SPEAKERS -
92 POUNDS

30154 E HORN

DESCRIPTION & USE - SIMILAR TO 30154-D BUT HAS DOUBLE THROAT
FOR TWO RECEIVERS
APPROXIMATE DISTRIBUTION ANGLES - HORIZONTAL - 30 DEGREES
VERTICAL - 25 DEGREES
APPROXIMATE WEIGHT INCLUDING LOUD SPEAKERS - 125 POUNDS

30374-TYPE BAFFLE

DESCRIPTION - FLAT TYPE. USED WITH TA-4151 LOUD SPEAKER
FOR LOW FREQUENCY IN ALL WIDE RANGE SYSTEMS
EXCEPT 4-A-EW AND 4-AM.
APPROXIMATE OVERALL DIMENSIONS INCLUDING LOUD SPEAKERS -
SEE DRAWING



This baffle is made up of Sections which can be assembled in any order as Type A, B, or C.

Section 3 carries the TA-4151 Loudspeaker.

Type 4 is the standard baffle and should be used whenever possible.

Type B is used when the distance from the baffle to the loudspeakers is less than 10' and when the height of the baffle is greater than 10'.

Type C is used when the height beneath stage floor and bottom of baffle precludes the use of Type B.

30428-A BAFFLE

DESCRIPTION & USE - FLAT TYPE; USED WITH ONE
TA-4151 LOUD SPEAKER FOR
LOW FREQUENCIES IN 4-A-EW
AND 4-A SYSTEMS

APPROXIMATE OVERALL DIMENSIONS INCLUDING LOUD SPEAKERS -
4 FEET 0 INCHES (H)
6 FEET 0 INCHES (W)
10 INCHES (D)

APPROXIMATE WEIGHT INCLUDING LOUD SPEAKERS -
125 POUNDS

30515-A BAFFLE

DESCRIPTION & USE - BOX TYPE; USED WITH ONE
TA-4151 OR TA-4165 LOUD
SPEAKER IN SOUND ADDRESS
AND CAFE EQUIPMENT

APPROXIMATE OVERALL DIMENSIONS INCLUDING LOUD SPEAKERS -
2 FEET 2 INCHES (ACROSS FLATS)
1 FEET 2 INCHES (DEEP)

APPROXIMATE WEIGHT INCLUDING LOUD SPEAKERS -
WITH TA-4151 - 75 POUNDS
WITH TA-4165 - 57 POUNDS

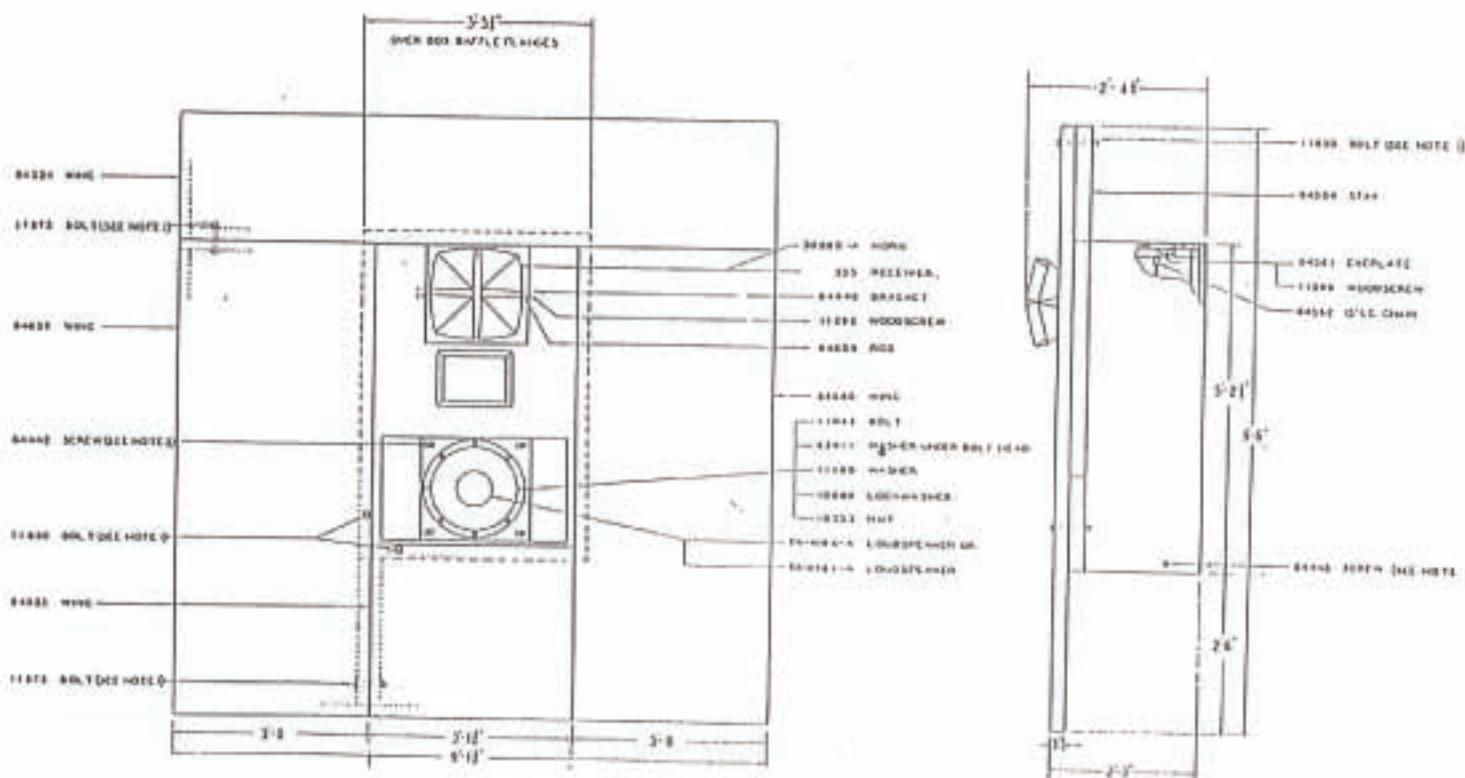
30539-A BAFFLE

DESCRIPTION & USE - HORN TYPE; MOULDED. USED
WITH ONE TA-4165 LOUD
SPEAKER IN SOUND ADDRESS
AND CAFE EQUIPMENT

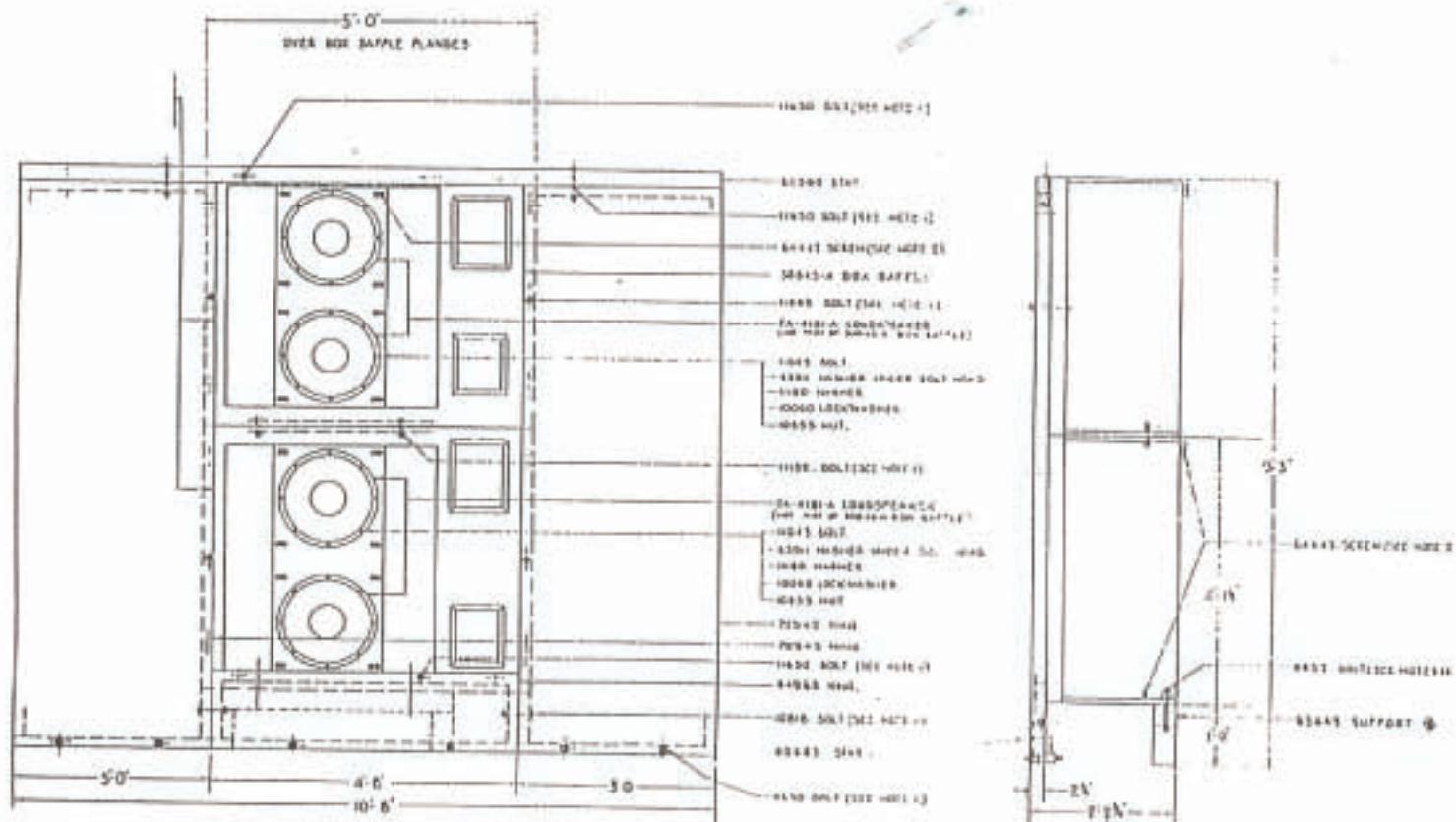
APPROXIMATE OVERALL DIMENSIONS INCLUDING LOUD SPEAKERS -
3 FEET 6 INCHES SQUARE FRONT
1 FOOT 11 INCHES (DEEP)

APPROXIMATE WEIGHT INCLUDING LOUD SPEAKERS -
45 POUNDS

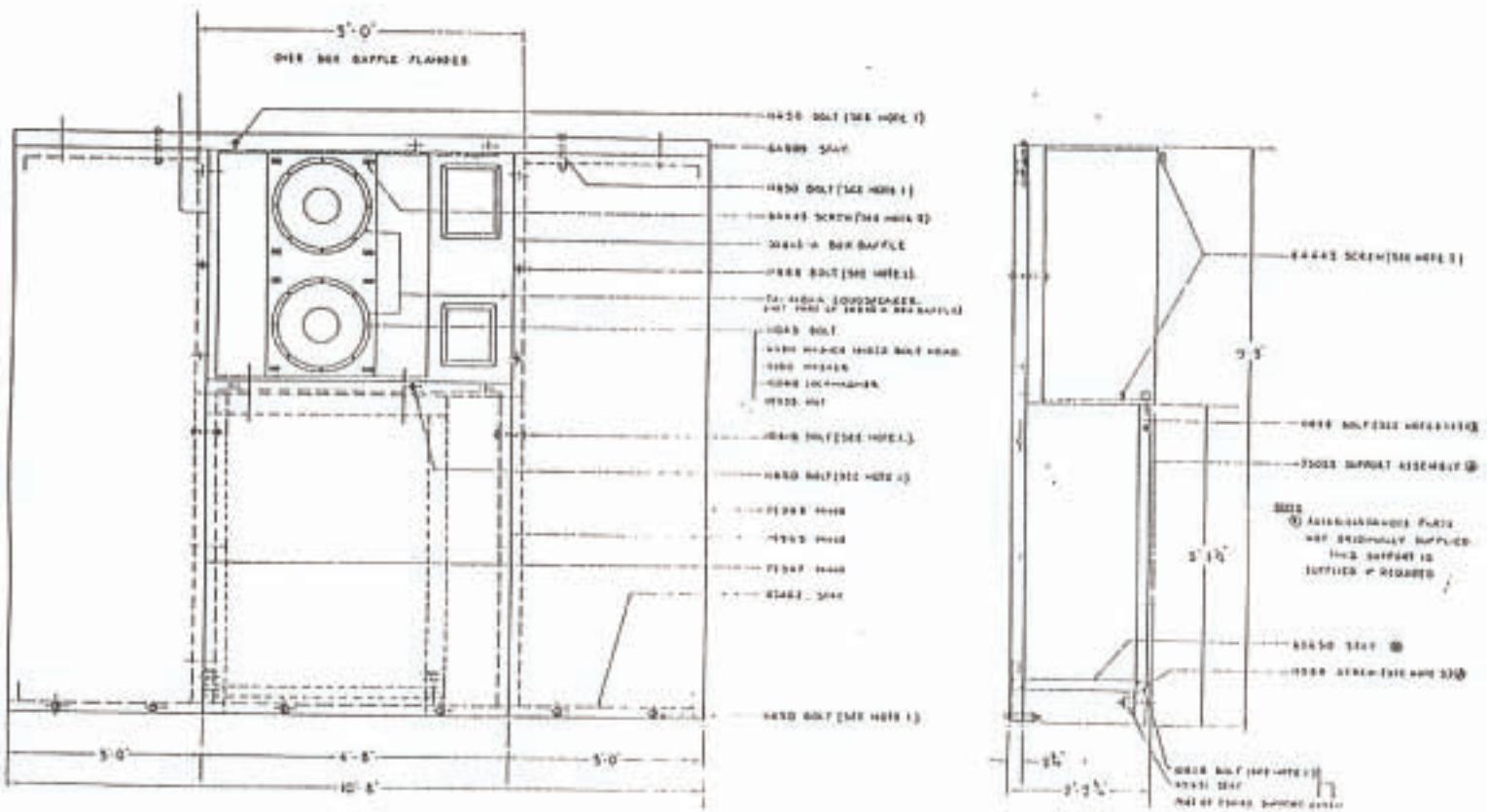
30870-A BOX BAFFLE AND HORN HOUSING WITH WINGS



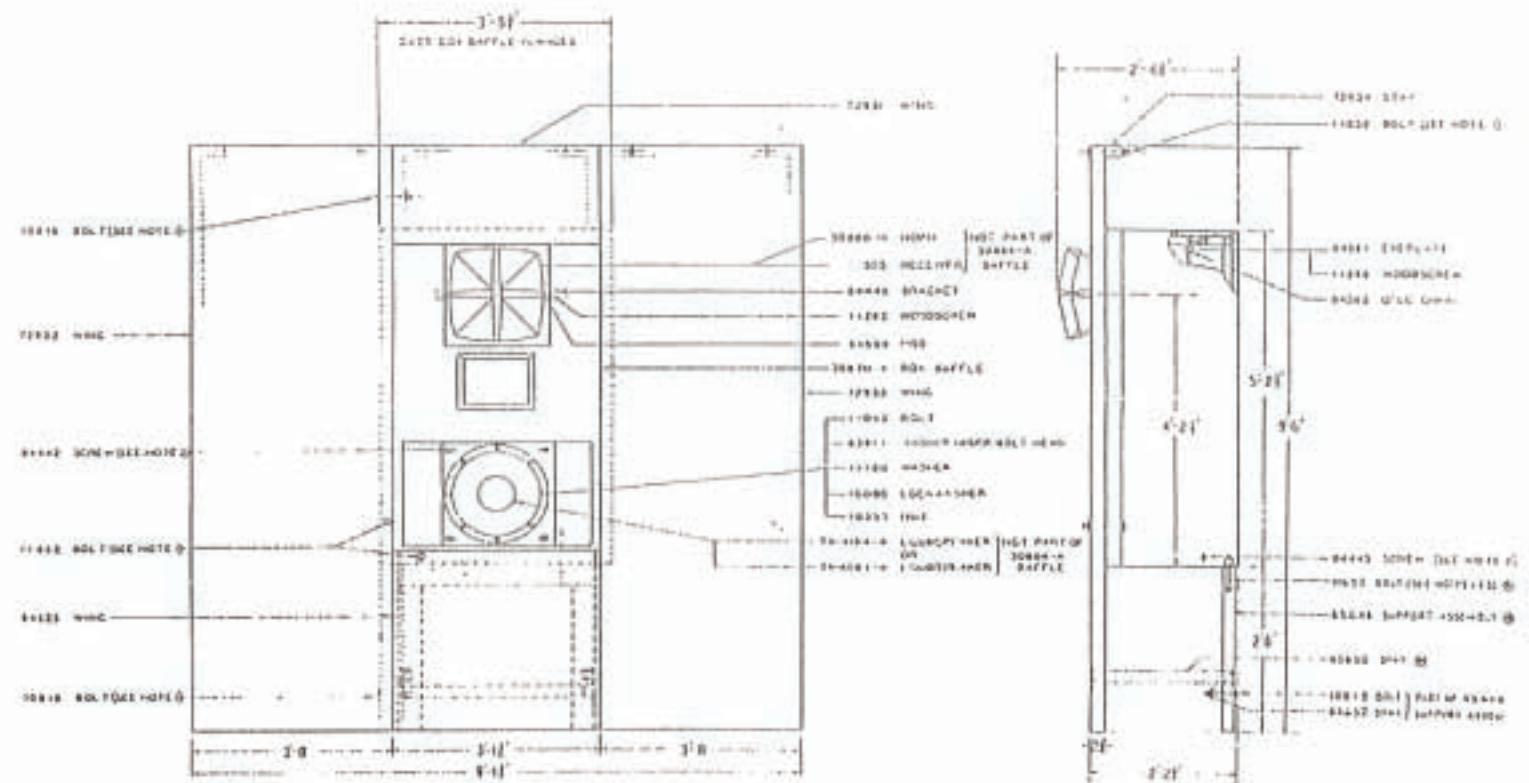
30882-A BAFFLE



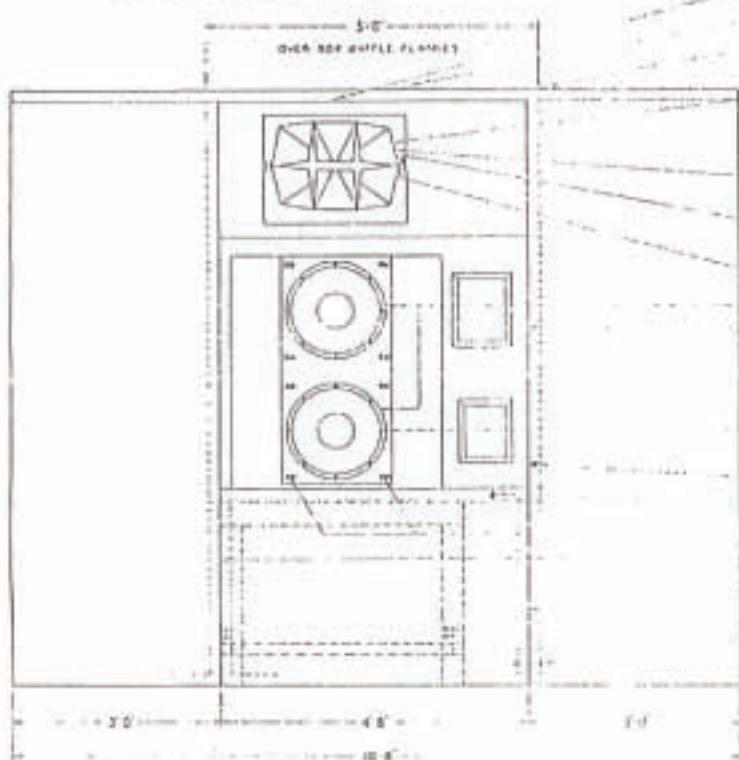
30883-A BAFFLE



30884-A BAFFLE

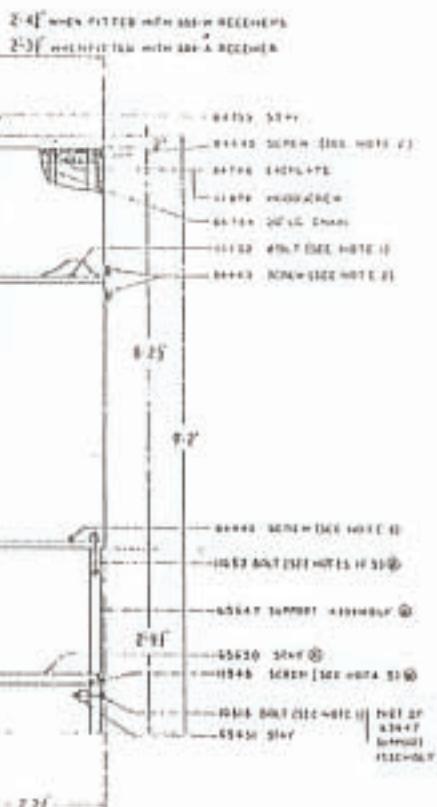


30885-B BAFFLE



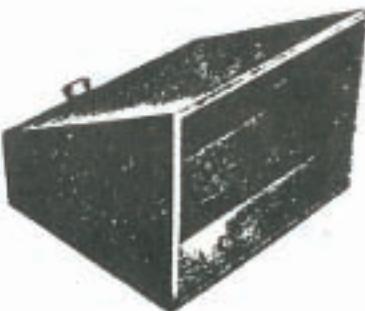
30885-B Baffle
OVER TOP BAFFLE FLANGE
17 1/2 INCHES (W)
10 1/2 INCHES (H)

- 8444-4 HORN HOUSING
- 8444-5 BOLT (SEE NOTE 1)
- 8444-6 BOLT (SEE NOTE 1)
- 330-A RECEIVER
- 330-A RECEIVER ATTACHMENT
- 30344-4 HORN DR.
- 3444-4 RECEIVER
- 3444-5 RECEIVER ATTACHMENT
- 30344-6 HORN
- 8444-6 BRACKET
- 8444-7 SCREWS
- 8444-8 ROD
- 8444-9 LONG SPACER
- 30344-10 SCREWS
- 11244-10 BOLT
- 8444-11 WASHER (SEE NOTE 1)
- 8444-12 WASHER
- 8444-13 LOCK WASHER
- 13344-14 ROD
- 8444-15 BOLT (SEE NOTE 1)
- 8444-16 BOLT (SEE NOTE 1)
- 8444-17 SCREW (SEE NOTE 1)
- 8444-18 WASP
- 8444-19 WASP
- 8444-20 WASP
- 8444-21 WASP (SEE NOTE 1)



D-78551 REFLEX HORN

SIZE OF OPENING - 14 INCHES X 10 1/2 INCHES
NOTE - EASILY CONCEALED BUT HAS LARGE
VOLUME



D-94675 LOUD SPEAKING TELEPHONE OUTFIT

DESCRIPTION - D-94531 AMPLIFIER & KS-7109 LOUD SPEAKING TELEPHONE
IN KS-7130 CARRYING CASE

USE - MP-16, L-30 & S-30 TYPE SYSTEMS AS COMBINED AMPLIFIER AND
LOUD SPEAKER

VOLTS - 100 - 125 AC / 50 - 65 CYCLES

POWER SUPPLY - 100 WATTS

DIMENSIONS (OVERALL) - 22 1/2 INCHES (H) X 20 3/4 INCHES (W) X
10 1/2 INCHES (D)

WEIGHT (LBS.) - 64

D-94675-A LOUD SPEAKING TELEPHONE OUTFIT

DESCRIPTION - SAME AS D-94675 EXCEPT MONITOR RECEPTACLE ADDED
USE - L.D.S. INSTALLATIONS
VOLTS - 100 - 125 AC / 50 - 65 CYCLES
POWER SUPPLY - 100 WATTS
DIMENSIONS (OVERALL) - 22 1/2 INCHES (H) X 20 3/4 INCHES (W) X
10 1/2 INCHES (D)
WEIGHT (LBS.) - 65

D-94675-B LOUD SPEAKING TELEPHONE OUTFIT

DESCRIPTION - D-94531-A AMPLIFIER; TA-4154 LOUD SPEAKING TELEPHONE,
RECEPTACLE & POTENTIOMETER FOR MONITOR; & RECEPTACLES
FOR EXTERNAL LOUD SPEAKING TELEPHONES IN KS-7130
CARRYING CASE
USE - SPECIAL MP-16 SYSTEMS, OR WITH TA-7259 REPRODUCER SET
VOLTS - 100 - 125 AC / 50 - 60 CYCLES
POWER SUPPLY - 100 WATTS
DIMENSIONS (OVERALL) - 22 1/2 INCHES (H) X 20 3/4 INCHES (W) X
10 1/2 INCHES (D)
WEIGHT (LBS.) - 70

D-94675-C LOUD SPEAKING TELEPHONE OUTFIT

DESCRIPTION - D-94531-A AMPLIFIER; RECEPTACLE & POTENTIOMETER
FOR MONITOR; AND RECEPTACLES FOR EXTERNAL LOUD
SPEAKING TELEPHONE
USE - SPECIAL MP-16 SYSTEMS, OR WITH TA-7259 REPRODUCER SETS
VOLTS - 100 - 125 AC / 50 - 60 CYCLES
POWER SUPPLY - 100 WATTS
DIMENSIONS (OVERALL) - 22 1/2 INCHES (H) X 20 3/4 INCHES (W)
10 1/2 INCHES (D)
WEIGHT (LBS.) - 70

D-94675-D LOUD SPEAKING TELEPHONE OUTFIT

DESCRIPTION - D-95036 AMPLIFIER; TA-4154 LOUD SPEAKING TELEPHONE,
RECEPTACLE AND POTENTIOMETER FOR MONITOR, AND
RECEPTACLE FOR EXTERNAL L.S.T. IN KS-7130 CARRYING
CASE.

USE - SPECIAL MP-16, B-30 AND R-30 TYPE SYSTEMS

VOLTS - 100 - 125 AC / 50 - 60 CYCLES

POWER SUPPLY - 100 WATTS

DIMENSIONS (OVERALL) - 22 1/2 INCHES (H) X 20 3/4 INCHES (W) X
10 1/2 INCHES (D)

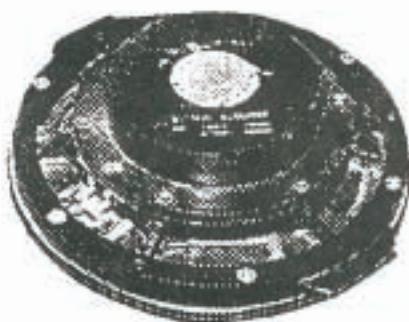
WEIGHT (LBS.) - 70

D-173048 NETWORK

DESCRIPTION - A LOUD SPEAKER NETWORK FOR USE IN TWO CHANNEL LOUD
SPEAKER SYSTEMS. THE CROSSOVER FREQUENCY IS 700
CYCLES. THIS NETWORK IS DESIGNED TO OPERATE FROM
A 16 OHM SOURCE IMPEDANCE AND FEED INTO A HIGH AND
LOW FREQUENCY LOUDSPEAKER EACH WITH 16 OHM VOICE
COILS.

DIMENSIONS - 10 INCHES (L)
8 INCHES (W)
3/4 INCHES (H)

D-173491 CONE TYPE LOUD SPEAKING TELEPHONE



BIBLIOGRAPHY

1A HORN - Field Research

3A HORN - Field Research

4A HORN - Field Research

5A RECEIVER HOLDER AND BRACKET - Western Electric Systems for Public Address, Music Reproduction, Announcing and Program Distribution - 1931 Edition - Manual of Data and Specifications for Architects, Engineers and Contractors - A.I.A. File No. 31-i-7. Copyright 1931, Western Electric Company, Inc.; Page 33.

6A HORN - Ibid. (See 5A RECEIVER HOLDER AND BRACKET)

Altec Service Corporation - Western Electric Sound Equipment Bulletin - 4220.15 - Horns & Receiver Attachment, General; Dated 7/31/46; Issued by Engineering Department.

7A RECEIVER ATTACHMENT - Western Electric General Equipment Bulletin; 1.1 Horn, General; Operating Department; Issue 1; March 1, 1937; Reference LSO-2835 (1.11).

8B RECEIVER ATTACHMENT - Ibid. (See 7A RECEIVER ATTACHMENT).

9A RECEIVER ATTACHMENT - Ibid. (See 7A RECEIVER ATTACHMENT); except REF is LSL-2286 (1.12).

10A RECEIVER ATTACHMENT - Altec Service Corporation - Western Electric Sound Equipment Bulletin; 4220.15; Horns and Receiver Attachment, General; dated 7/31/46; Issued by Engineering Department.

10D LOUDSPEAKER - Field Research

11A HORN - Ibid. (See 5A RECEIVER HOLDER AND ATTACHMENT) p. 34 and Ibid. (See 10A RECEIVER ATTACHMENT)

12A HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and Electrical Research Products, Inc., General Bulletin, Acoustic Department, New York, New York; Reference ASO-115; dated 6/3/27.

12A RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)

13A HORN - Ibid. (See 12A HORN)

BIBLIOGRAPHY

- 13A RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 14A HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and
Ibid. (See 5A RECEIVER HOLDER AND BRACKET) page 37.
- 15A HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and
Ibid. (See 5A RECEIVER HOLDER AND BRACKET) page 36.
- 15A RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 15B HORN - Ibid. (See 7A RECEIVER ATTACHMENT)
- 16A HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and
Western Electric Company, Ltd., London; G.E.B. 1.12;
LSL-2886; dated November 1, 1935.
- 16A RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 17A HORN - Ibid. (See 10A RECEIVER ATTACHMENT)
- 19A RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 19B RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 19C RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 20A RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 20B RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 21A HORN - Field Research
- 22A HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and
Field Research
- 22A RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 22B HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and Field Research
- 22B RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 23A RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 23B RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 24A HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and
Western Electric Company, Ltd., London; G.E.B. 1.131;
LSO-4108; dated December 29, 1936.

BIBLIOGRAPHY

- 24A RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 24B HORN - Ibid. (See 10A RECEIVER ATTACHMENT)
- 24B RECEIVER ATTACHMENT - Ibid. (See 10A RECEIVER ATTACHMENT)
- 25A HORN - Western Electric Company, Ltd., London; G.E.B. 1.131; LSO-4109; dated March 8, 1937
- 25B HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and Field Research
- 26A HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and Western Electric Company, Ltd., London; G.E.B. 1.13; dated March 11, 1937
- 26A RECEIVER ATTACHMENT - A New Line of Wide Range High Quality Loudspeakers by Western Electric; WECO-T1650; designated 1-I-39-8; page 5
- 27A HORN - Ibid. (See 10A RECEIVER ATTACHMENT)
- 27A RECEIVER ATTACHMENT - 713A Loudspeaker Receiver for Sound Systems; General Bulletin; WECO-T-2435, designated 1-I-47-7; page 2
- 28A HORN- Ibid. (See 10A RECEIVER ATTACHMENT)
- 31A HORN - Ibid. (See 26A RECEIVER ATTACHMENT) page 1
- 32A HORN - Western Electric Bulletin, Loud Speaking Horn, 32A; WECO-T-2347-B; designated 2-D-48-45C; pages 1 and 2
- 518 LOUD SPEAKING TELEPHONE - Western Electric Bulletin No. 3A Public Address System; page 8
- 521-CW LOUD SPEAKING TELEPHONE - Field Research
- 521-W LOUD SPEAKING TELEPHONE - Ibid. (See 518 LOUD SPEAKING TELEPHONE) page 6
- 540-AW CONE TYPE LOUD SPEAKING TELEPHONE - Western Electric General Bulletin; Music Reproducer; Reproducer Set No. 200A.
- 543-W LOUD SPEAKING TELEPHONE - Graybar Catalogue; designated 1-H-25-30 and WECO-7-733-D

BIBLIOGRAPHY

- 548-AW CONE TYPE LOUD SPEAKING TELEPHONE FOR PEDESTAL MOUNTING -
Ibid. (See 543-W LOUD SPEAKING TELEPHONE)
- 548-CW CONE TYPE LOUD SPEAKING TELEPHONE FOR WALL MOUNTING -
Ibid. (See 540-AW CONE TYPE LOUD SPEAKING TELEPHONE)
- 548-DW CONE TYPE LOUD SPEAKING TELEPHONE FOR HINGED WALL MOUNTING -
Ibid. (See 540-AW CONE TYPE LOUD SPEAKING TELEPHONE)
- 549-W MOVING ARMATURE TYPE LOUD SPEAKING TELEPHONE -
Ibid (See 540-AW CONE TYPE LOUD SPEAKING TELEPHONE)
- 551-W MOVING ARMATURE TYPE LOUD SPEAKING TELEPHONE RECEIVER -
Ibid. (See 5A RECEIVER AND BRACKET) page 33
- 555 RECEIVER - Western Electric Equipment Bulletin; Loud Speaking Telephones, General; 4.22; and
Ibid. (See 5A RECEIVER AND BRACKET) page 32
- 560-AW CONE TYPE LOUD SPEAKING TELEPHONE - Bell Laboratories Record; Vol. 8, #10; dated June 1930; pp. 468;
Die Castings. and Graybar Catalogue #100.
- 575 LOUD SPEAKING TELEPHONE - Ibid. (See 5A RECEIVER HOLDER AND BRACKET) page 38
- 575-A LOUD SPEAKING TELEPHONE - Ibid. (See 5A RECEIVER HOLDER AND BRACKET) page 38
- 576-A LOUD SPEAKING TELEPHONE - Ibid. (See 5A RECEIVER HOLDER AND BRACKET) page 38
- 594-A LOUD SPEAKING RECEIVER - Electrical Research Products, Inc.;
Photos 9915-1 and 9916-1; 4.2
- 595-A LOUD SPEAKING TELEPHONE - Western Electric Equipment Bulletin,
4.22, Loud Speaking Telephones, General.
- 596-A LOUD SPEAKING TELEPHONE - Bell Laboratory Record, Volume 9,
May 1931; A Loud Speaker Good to Twelve Thousand Cycles;
L.G. Bostwick; Transmission Instruments Research; page 433 &
Ibid. (See 595-A LOUD SPEAKING TELEPHONE)
- A-596-A LOUD SPEAKING TELEPHONE - Ibid. (See 595-A LOUD SPEAKING TELEPHONE)
- A-596-B LOUD SPEAKING TELEPHONE - Ibid. (See 595-A LOUD SPEAKING TELEPHONE)
- 597-A LOUD SPEAKING TELEPHONE - Ibid. (See 596-A LOUD SPEAKING TELEPHONE) and Ibid. (See 595-A LOUD SPEAKING TELEPHONE)

BIBLIOGRAPHY

- A-597-A LOUD SPEAKING TELEPHONE - Ibid. (See 595-A LOUD SPEAKING TELEPHONE)
- 597-B LOUD SPEAKING TELEPHONE - Ibid. (See 595-A LOUD SPEAKING TELEPHONE)
- A-597-B LOUD SPEAKING TELEPHONE - Ibid. (See 595-A LOUD SPEAKING TELEPHONE)
- 702A NETWORK - Sound Systems by Western Electric; designation 1-I-47-5; WECO T-2359; page 77
- 707P RECEIVER - Ibid. (See 26A RECEIVER ATTACHMENT) page 4
- 713A LOUD SPEAKER RECEIVER - Ibid. (See 702A NETWORK) page 76 and Western Electric General Bulletin, 713A Loud Speaker for Sound Systems; 1-I-47-7; WECO-T-2435
- 713B LOUD SPEAKER RECEIVER - Ibid. (See 702A NETWORK) page 76 and Western Electric General Bulletin, 713B Loud Speaker for Sound Systems;
- 713C LOUD SPEAKER RECEIVER - Ibid. (See 702A NETWORK) page 76 and Western Electric General Bulletin, 713C Loud Speaker for Sound Systems;
- 720A RECEIVER - Ibid. (See 702A NETWORK) page 77 and Western Electric General Bulletin, 720A Loudspeaker Receiver for Sound Systems; page 1
- 722A RECEIVER - Ibid. (See 702A NETWORK) page 77
- 728 LOUD SPEAKER - Western Electric 728B Loud Speaker, General Bulletin; and Ibid. (See 702A NETWORK) page 69
- 750A LOUD SPEAKING TELEPHONE - An Improved Loud-Speaking Telephone; H.F. Hopkins; Bell Laboratories Record; April 1940; p. 253; and Western Electric General Bulletin, Western Electric Loud Speaking Telephones 750A - 751A; Copyright 1939
- 751A LOUD SPEAKING TELEPHONE - Ibid. (See 750A LOUD SPEAKING TELEPHONE) page 6
- 753A LOUD SPEAKING TELEPHONE SYSTEM - Loud Speaking Telephones for Sound Systems and Radio Broadcasting Monitoring; Western Electric General Bulletin, designated 1-K-41-7 - WECO-T1924
- 754A LOUD SPEAKER - Western Electric General Bulletin, 754A; designation 1-J-47-8M; T2382; and Ibid. (See 702A NETWORK) page 70
- 754B LOUD SPEAKER - (Phenolic Diaphragm) Western Electric 754B Loud Speaker, General Bulletin; designated 2-H-47-8M - WECO-T-2380B

BIBLIOGRAPHY

- 755A LOUD SPEAKER - Ibid. (See 26A RECEIVER ATTACHMENT) and
Ibid. (See 702A NETWORK) page 71
- 755AA LOUD SPEAKING TELEPHONE - Western Electric Catalog #425;
dated May 31, 1960; and Field Research
- 756A LOUD SPEAKER - Ibid. (See 702A NETWORK) page 72
- 757A LOUD SPEAKER SYSTEM - Western Electric General Bulletin,
Western Electric 757A Loudspeaker; designation
4-1-47-B; WECO-T-2358S; and
Ibid. (See 702A NETWORK) page 73
- TA 4151 LOUD SPEAKING TELEPHONE - Ibid. (See 595A LOUD SPEAKING
TELEPHONE) and Field Research
- TA 4151A LOUD SPEAKING TELEPHONE - Ibid. (See 595A LOUD SPEAKING
TELEPHONE) and Field Research
- TA 4153 LOUD SPEAKING TELEPHONE - Ibid. (See 595A LOUD SPEAKING
TELEPHONE) and Field Research
- TA 4153A LOUD SPEAKING TELEPHONE - Ibid. (See 595A LOUD SPEAKING
TELEPHONE)
- TA 4154 LOUD SPEAKING TELEPHONE - Ibid. (See 595A LOUD SPEAKING
TELEPHONE)
- TA 4165 LOUD SPEAKING TELEPHONE - Ibid. (See 595A LOUD SPEAKING
TELEPHONE)
- TA 4166 LOUD SPEAKING TELEPHONE - Ibid. (See 595A LOUD SPEAKING
TELEPHONE)
- TA 4172 LOUD SPEAKING TELEPHONE - Field Research
- TA 4181 LOUD SPEAKING TELEPHONE - Field Research
- TA 4189 LOUD SPEAKING TELEPHONE, DYNAMIC - Field Research
- TA 4194A LOUD SPEAKING TELEPHONE, DYNAMIC - Field Research
- 6116A HORN - Field Research
- KS-6353 HORN - Ibid. (See 10A RECEIVER ATTACHMENT)
- KS-6368 HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and Field Research
- KS-6373 HORN - Ibid. (See 10A RECEIVER ATTACHMENT) and Field Research

BIBLIOGRAPHY

KS-6575 HORN - Ibid. (See 10A RECEIVER ATTACHMENT)

KS-6576 HORN - Ibid. (See 10A RECEIVER ATTACHMENT)

KS-7109 LOUD SPEAKING TELEPHONE - Ibid. (See 595A LOUD SPEAKING TELEPHONE)

TA-7179 LOUD SPEAKING TELEPHONE, DYNAMIC - Ibid. (See 595A LOUD SPEAKING TELEPHONE)

TA-7272 LOUD SPEAKING TELEPHONE - Ibid. (See 595A LOUD SPEAKING TELEPHONE)

TA-7272A LOUD SPEAKING TELEPHONE - Ibid. (See 595A LOUD SPEAKING TELEPHONE)

TA 7322 HORN - Field Research

TA-7395 BAFFLE - General Equipment Bulletin - 1.14 Baffles, General; Operating Department, Issue 1, February 1, 1937

TAE-7395 BAFFLE - Western Electric Company Limited London; LSO-4162; G.E.B. 1.14; LSO-4162; dated March 11, 1937

TA-7396 BAFFLE - Associated Photograph, Speaker System, DiPhonic; Electrical Research Products Incorporated

TAE-7396 BAFFLE - Western Electric Company Limited London; G.E.B. 1.14, LSO-4296; dated March 11, 1937

TA-7397 BAFFLE - Ibid. (See TA-7395 BAFFLE)

TAE-7401 BAFFLE - Western Electric Company Limited London; G.E.B. 1.14; LSO.4192;

KS 12024 SECTORAL HORN - General Equipment Bulletin Western Electric
KS 12024 SECTORAL HORN; and Ibid. (See 702A NETWORK) page 75

KS 12025 SECTORAL HORN - General Equipment Bulletin Western Electric
KS 12025 SECTORAL HORN; and Ibid. (See 702A NETWORK) page 75

KS 12027 SECTORAL HORN - General Equipment Bulletin Western Electric
KS 12027 SECTORAL HORN; and Ibid. (See 702A NETWORK) page 75

KS 14703 LOUD SPEAKER - Field Research and Catalogue No. 425, Western Electric Company; dated May 31, 1960

30150-B RECEIVER - Field Research

30154 TYPE HORN - Western Electric Company Limited London; LSO-2841; G.E.B. 1.13.

BIBLIOGRAPHY

- 30154-D HORN - General Equipment Bulletin, Horn; 1.10 Horns, General; Operating Department; Western Electric; Issue 1; dated March 1, 1937
- 30154-E HORN - Ibid. (See 30154-D HORN)
- 30374 TYPE BAFFLE - Western Electric Company Ltd. London; LSL-2904; G.E.B. 1.14; dated December 3, 1933
- 30428-A BAFFLE - General Equipment Bulletin; 1.14 Baffles General, Operating Department; Issue 1; February 1, 1937
- 30515-A BAFFLE - Ibid. (See 30428-A BAFFLE)
- 30539-A BAFFLE - Ibid. (See 30428-A BAFFLE)
- 30870-A BOX BAFFLE AND HORN HOUSING WITH WINGS - G.E.B. 1.14; LSO-4939; Western Electric Company Ltd. London; dated November 23, 1937.
- 30882-A BAFFLE - Western Electric Company Ltd. London; G.E.B. 1.14; LSO-5139; February 19, 1940
- 30883-A BAFFLE - Western Electric Company Ltd. London; G.E.B. 1.14; LSO-5031; dated April, 1939
- 30884-A BAFFLE - Western Electric Company Ltd. London; G.E.B. 1.14; LSO-4939; February 26, 1940
- 30885-B BAFFLE - Western Electric Company Ltd. London; G.E.B. 1.14; LSO-4295; March 11, 1937
- D-78551 REFLEX HORN - Field Research
- D-94675 LOUD SPEAKING TELEPHONE OUTFIT - Ibid. (See 595A LOUD SPEAKING TELEPHONE)
- D-94675-A LOUD SPEAKING TELEPHONE OUTFIT - Ibid. (See 595A LOUD SPEAKING TELEPHONE)
- D-94675-B LOUD SPEAKING TELEPHONE OUTFIT - Ibid. (See 595A LOUD SPEAKING TELEPHONE)
- D-94675-C LOUD SPEAKING TELEPHONE OUTFIT - Ibid. (See 595A LOUD SPEAKING TELEPHONE)
- D-94675-D LOUD SPEAKING TELEPHONE OUTFIT - Ibid. (See 595A LOUD SPEAKING TELEPHONE)
- D-173048 NETWORK - Ibid. (See 702A NETWORK) page 77
- D-173491 CONE TYPE LOUD SPEAKING TELEPHONE - Field Research