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CATALOGUE 67
AUGUST, 1956

HAMMOND

TRANSFORMERS FABRICATED METAL PARTS

FOR THE ELECTRONIC INDUSTRY

HAMMOND MANUFACTURING COMPANY LIMITED • GUELPH, ONTARIO, CANADA

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C.S.A. APPROVAL

The Transformers listed in this Catalogue are C.S.A. Approved
APPROVAL NO. 3902

G U A R A N T E E

We guarantee Hammond products to be free from defects in workmanship or material, and will, without charge, replace or repair within one year from date of shipment from our factory any product that may be found defective upon inspection at our factory. This guarantee does not obligate us where products have been subjected to careless handling, improper application or faulty installation, and we expressly disclaim any obligation, guarantee or liability whatsoever except as above stated.

CABLE ADDRESS — "HAMEC", GUELPH, CANADA

All items listed in this Catalogue are
MADE IN CANADA

TRANSISTOR & MINIATURE TYPES 142 SERIES

Overall Dimensions $\frac{7}{16} \times \frac{3}{4} \times \frac{9}{16}$ "
Weight $\frac{1}{3}$ oz. (.02 lb.)
 $\frac{3}{2}$ " Insulated Leads

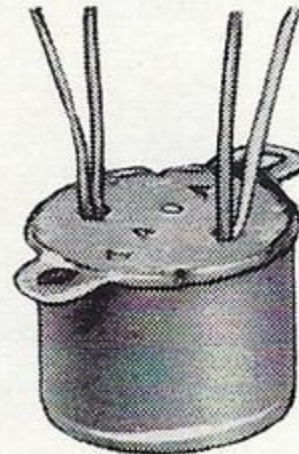


Type	Primary	Secondary	Pri. DC	MW*	Code
142B	200,000	1000	0	4	Fbfoz
142D	50	80000	0	10	Fbfpa
142F	25000	50	2	100	Fbfge
142J	25000	500	2	100	Fbfri
142K	25000	1000	2	100	Fbfsj
142M	30000	1200 ct	2	100	Fbftk
142Q	1200	3.2	5	250	Fbful
142R	1200	50	5	250	Fbfvm
142T	1200 ct	3.2	10 per side	250	Fbfwn

*Max. power for 2 DB Insertion loss at 200 CPS.

140 SERIES SHIELDED INPUTS

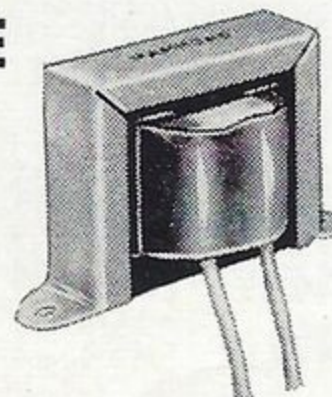
Mumetal Core Drawn Steel Case
Vacuum Impregnated Insulated Leads
 $1\frac{1}{2}$ " Mtg. Cts. $1\frac{1}{8}$ " High



Type	Primary	Secondary	Ratio	Code
140A	4	60,000	1:122	Fbeba
140B	30	60,000	1:45	Fbeec
140C	50	60,000	1:34.5	Fbegf
140E	30	60,000 ct	1:45	Fbfec
140F	50	60,000 ct	1:34.5	Fbfio
140K	150	60,000	1:20	Fbfmb

REPLACEMENT INTERSTAGE

Hammond Replacement Audios have been accepted by the trade for over twenty-five years because of their efficiency, reliability, appearance and low cost. RTMA color coded leads.



Type	Ratio*	Core	Mtg. Cts.	Wt.	Code
51	1:2 ct	$\frac{1}{2} \times \frac{1}{2}$	2	$\frac{3}{8}$ lb.	Farsu
111	1:3	$\frac{3}{4} \times \frac{3}{4}$	$2\frac{13}{16}$	1 lb.	Fauga
112	1:3 $\frac{1}{2}$ ct	$\frac{3}{4} \times \frac{3}{4}$	$2\frac{3}{8}$	1 lb.	Fault
113	1:3 $\frac{1}{2}$ ct	$\frac{3}{4} \times \frac{3}{4}$	$2\frac{13}{16}$	1 lb.	Fauna
116	1:2 ct	$\frac{3}{4} \times 1$	$2\frac{3}{8}$	$1\frac{1}{4}$ "	Favor

*OVERALL

130 SERIES AUDIOS

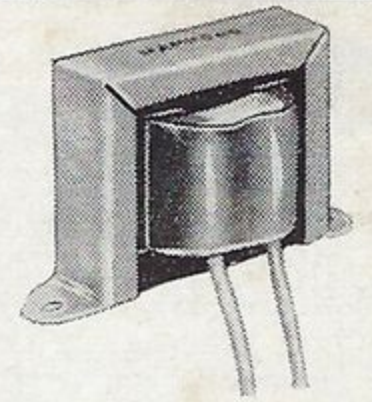
This series has $\frac{5}{8} \times \frac{5}{8}$ core, horizontal bracket, $2\frac{3}{8}$ mounting centres. They are largely used in Talk-back Systems and in Replacement work.

Type	Primary	Secondary	PRI. DC	Code
130	4	80000	*	Fazam
131	200 ct	50000	60	Fazap
132	500	50000	z	Fazar
134	20000	80000	10 ma.	Fazat
135	20000	37500 ct	10 ma.	Fazav
139	7000	500 ct	40 ma.	Fazef

*400 ma. AC Max. signal
z 100 ma. AC max. signal

REPLACEMENT OUTPUTS

This complete line of Output Transformers will look after all of your replacement needs. You will find a type listed which will give maximum performance for all of the various power tubes in use from a 1T5 to P.P. 6V6 or 6L6. The newest types of materials and latest manufacturing processes give you the ultimate in performance and dependability.



SINGLE PLATE TYPES

Type	Pri.	Sec.	Core	Mtg. Cts.	Wt.	Code
43	2000	3.2	$\frac{3}{8} \times \frac{3}{8}$	$1\frac{3}{4}$	$\frac{1}{4}$	Epfal
45	5000	3.2	$\frac{3}{8} \times \frac{3}{8}$	$1\frac{3}{4}$	$\frac{1}{4}$	Epfbe
48	8000	3.2	$\frac{3}{8} \times \frac{3}{8}$	$1\frac{3}{4}$	$\frac{1}{4}$	Epfci
53	2500	3.2	$\frac{1}{2} \times \frac{1}{2}$	2	$\frac{3}{8}$	Ephit
54	4500	3.2	$\frac{1}{2} \times \frac{1}{2}$	2	$\frac{3}{8}$	Ephbe
57	7000	3.2	$\frac{1}{2} \times \frac{1}{2}$	2	$\frac{3}{8}$	Ephar
63	2500	3.2	$\frac{5}{8} \times \frac{5}{8}$	$2\frac{3}{8}$	$\frac{1}{2}$	Ephes
64	4500	3.2	$\frac{5}{8} \times \frac{5}{8}$	$2\frac{3}{8}$	$\frac{1}{2}$	Ephet
67	7000	3.2	$\frac{5}{8} \times \frac{5}{8}$	$2\frac{3}{8}$	$\frac{1}{2}$	Ephow
69	18000	3.2	$\frac{5}{8} \times \frac{5}{8}$	$2\frac{3}{8}$	$\frac{1}{2}$	Ephum
74	4500	3.2	$\frac{3}{4} \times \frac{3}{4}$	$2\frac{13}{16}$	1	Ephyt
77	7000	3.2	$\frac{3}{4} \times \frac{3}{4}$	$2\frac{13}{16}$	1	Ephyb

PUSH-PULL OUTPUT TYPES

Type	Pri.	Sec.	Core	Mtg. Cts.	Wt.	Code
58	14000 ct.	3.2	$\frac{1}{2} \times \frac{1}{2}$	2	$\frac{3}{8}$	Ekech
68	14000 ct.	3.2	$\frac{5}{8} \times \frac{5}{8}$	$2\frac{3}{8}$	$\frac{1}{2}$	Ekart
78	8000 ct.	3.2	$\frac{3}{4} \times \frac{3}{4}$	$2\frac{13}{16}$	1	Ekiou
79	10000 ct.	3.2	$\frac{3}{4} \times \frac{3}{4}$	$2\frac{13}{16}$	1	Ekome
80	14000 ct.	3.2	$\frac{3}{4} \times \frac{3}{4}$	$2\frac{13}{16}$	1	Ekure
126	8000 ct.	3.2	$\frac{3}{4} \times 1$	$2\frac{3}{8}$	$1\frac{1}{4}$	Ekuzi

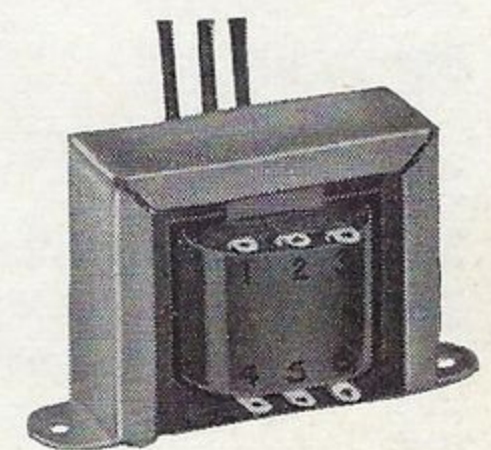
HUM REDUCING OUTPUTS

Primary has 3% Humbucking Tap., Secondary 3.2 ohms

Type	Pri.	Sec.	Core	Mtg. Cts.	Code
52	2500	3.2	$\frac{1}{2} \times \frac{1}{2}$	2	Epdkr
62	2500	3.2	$\frac{5}{8} \times \frac{5}{8}$	$2\frac{3}{8}$	Epist

UNIVERSAL OUTPUTS

This new line of Hammond Universal Output Transformers will efficiently match a wide range of voice coil impedances ranging from 1.5 ohms to 15 ohms to any single or push-pull output stage, impedance range 1200 to 25000 ohms.



Type	Core	Mtg. Cts.	Wt. Lb.	Code
125B	$\frac{1}{2} \times \frac{1}{2}$	2	$\frac{3}{8}$	Fetga
125C	$\frac{5}{8} \times \frac{5}{8}$	$2\frac{3}{8}$	$\frac{1}{2}$	Fethe
125D	$\frac{3}{4} \times \frac{3}{4}$	$2\frac{3}{4}$	1	Fetgi

300 SERIES

A complete and very popular range of audio transformers.

Sealed in drawn steel housing with attractive black wrinkle finish. Recessed terminal plate with plainly marked terminal lugs. For chassis or base mounting.

Good power transfer at up to 5 watts at 100 cps. or 1½ watts 50 cps.

Height 2 $\frac{7}{16}$ " Width 2" Length 2 $\frac{1}{2}$ "
Mounting Centres 2 $\frac{3}{4}$ " Net Weight 1 $\frac{1}{4}$ lbs.

Type	Pri. Imp.	Sec. Imp.	Ratio*	Ma.	Code
306	50/200	200 ct	1:1	100	Dally
307	500/125	500 ct	1:1	100	Daine
308	50/200	500 ct	1:1.58	100	Daisy
310	50/200	80000	1:20	100	Dairy
312	50/200	100000 ct	1:22.4	100	Daily
322	500 ct	50/250/500	1:1	60	Dance
324	500 ct	50000	1:10	40	Darky
326	500 ct	65000 ct	1:11.4	40	Darnel
330	10000	90000	1:3	10	Dative
331	10000	120000 ct	1:3½	10	Datov
332	20000	80000 ct	1:2	10	Datum
333	20000 ct	20000/5000	1:1	10	Datus
334	20000	10500 ct	1.37:1	10	Datob
335	20000 ct	9000/2250	1.5:1	10	Dauber
337	20000 ct	3200/800	2.5:1	10	Dauby
340	15000	500 ct	5.75:1	10	Daunt
342	20000 ct	500 ct	6.3:1	10	David
344	4000	500 ct	2.8:1	35	Davit
346	8000 ct	500 ct	4:1	35	Dealt
347	7000	500 ct	3.75:1	35	Deari
348	14000 ct	500 ct	5.3:1	35	Deaso
351	2000	0—3.2—6.4	17:1	60	Deaxi
353	5000	0—3.2—6.4	28:1	40	Deban
354	7000	0—3.2—6.4	33:1	40	Debut
365	5000 ct	0—3.2—6.4	28:1	50	Decal
367	8000 ct	0—3.2—6.4	35:1	50	Decar
368	10000 ct	0—3.2—6.4	39:1	40	Decat
369	14000 ct	0—3.2—6.4	46:1	35	Decay
372	700 henrys ct	4350 ohms		10	Decry
374	10 henrys	235 ohms		65	Decum
375	25 henrys	600 ohms		40	Decov
382	500/1000	0—3.2—6.4		8	Defer
383	1500/2000/ 3000	0—3.2—6.4		6	Defie

*OVERALL

400 SERIES

A heavy duty type of audio transformer employing a 1 x 1 core of extra high grade silicon steel. Design is similar to 300 Series but larger core and coil provides excellent response from 80 to 7000 cy. in most types. Permanently sealed in black wrinkle finished steel housing with recessed bakelite terminal plate. Marked terminal lugs are provided for chassis or base mounting.

Height 3 $\frac{1}{4}$ " Width 2 $\frac{3}{8}$ " Length 3 $\frac{1}{8}$ "
Mounting Centers 3 $\frac{9}{16}$ " $\pm \frac{1}{16}$ " Net Weight 2.9 lbs.

Type	Pri. Imp.	Sec. Imp.	Ratio*	Ma.	Code
422	500 ct	50/250/500	1:1	100	Delve
424	500 ct	50000	1:10	100	Demon
426	500 ct	20000/80000	1:12.6	100	Demur
427	500 ct	7500/30000	1:7.7	130	Denim
430	20000	80000	1:2	8	Depot
432	20000	20000/80000	1:2	8	Depth
434	7500/30000	30000/120000	1:2	10	Derby
435	10000/40000	10000/40000	1:1	10	Derma
436	20000	8400/33600	1:1.3	10	Devil
437	40000 ct	2500/10000	2:1	10	Diana
438	20000	800/3200	2.5:1	10	Dibel
439	40000 ct	400/1600	5:1	10	Difer
440	20000	50/125/250/500	6.3:1	10	Diner
442	7500/30000	50/125/250/500	7.7:1	10	Dingo
444	4000	50/125/250/500	2.8:1	40	Dirge
445	7000	50/125/250/500	3.7:1	40	Ditty
446	8000 ct	50/125/250/500	4:1	40	Divan
447	6000	660/2640	1.5:1	40	Diver
448	6000	2400/9600	1:1.25	40	Dives
449	10000 ct	1500/6000	1.25:1	40	Divot
453	2500	3.2, 6.4, 10	15.8:1	60	Dobad
454	4000	3.2, 6.4, 10	20:1	60	Dober
457	7000	3.2, 6.4, 10	26:1	60	Dodge
463	3000 ct	3.2, 6.4, 10	17.3:1	70	Donna
465	5000 ct	3.2, 6.4, 10	22:1	70	Dolly
467	8000 ct	3.2, 6.4, 10	28:1	60	Doric
468	10000 ct	3.2, 6.4, 10	31.5:1	50	Dorog
469	14000 ct	3.2, 6.4, 10	37:1	50	Dogma
470	175/700 H, 10/5 ma	1600/6400 ohms			Dormy
472	25/100 H, 70/35 ma	250/1000 ohms			Doubt
477	25H, 75 ma	400 ohms			Douci
478	10 H, 125 ma	157 ohms			Douda
481	50, 125, 200, 250, 500	1½, 3¾, 6, 7½, 10, 15			Douet
482	500/1000	3.2, 6.4, 10	15 watts		Dough
483	1500/2000/ 3000	3.2, 6.4, 10	15 watts		Douty

*OVERALL

800 SERIES



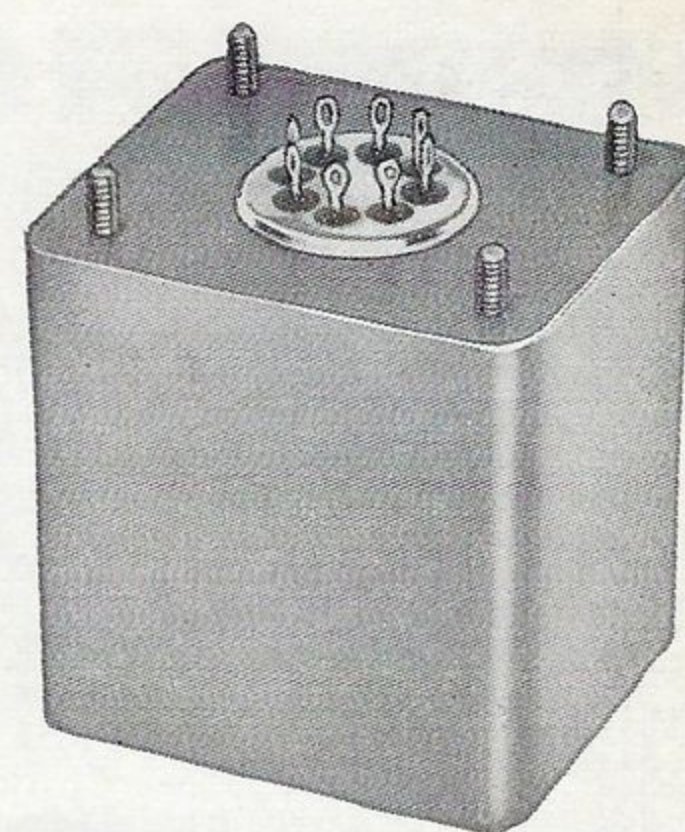
- Hermetically Sealed
- 50-15000 CPS $\pm$ 1/2 db.
- Balanced Core and Coil Construction
- Low Hum Pickup
- Mumetal Core
- Unbalance 1 Ma. Max.
- Strength and rigidity —
Unsurpassed for Shock and vibration
- Mounting Studs for Convenience of mounting
- Efficient shielding — Magnetic and Electrostatic
- Compact
- Neat, Streamlined Appearance
- Multi-terminal Headers
- Finished in Gray Enamel
- Dimensions 1 1/4" x 1 3/4" x 2 1/2" High
- Mounting Centres 1 5/16"
- Net Weight 0.5 lb.

Type	Pri. Imp.	Sec. Imp.	DBM§	Code
801	50/200 z	50/200	+15	Dravi
802	50/200 z 60/240	125/500 150/600	+15	Drawl
804	125/500 z 150/600	125/500 150/600	+15	Drazo
806	7.5/30 z	10000/40000	+15	Dreab
808	50/200 z	10000/40000	+15	Dread
812	125/500 z 150/600	10000/40000 12000/48000	+15	Dream
818	20000/80000	50/200	+15	Drex
832	5000/20000	20000/80000	+15	Dried
834	5000/20000	10000/40000	+15	Drier
835	10000/40000	10000/40000	+15	Driff
841	5000/20000	50/200	+20	Drift
842	5000/20000 6000/24000	125/500 150/600	+20	Drill
843	10000/40000	50/200	+20	Deily
844	10000/40000 12000/48000	125/500 150/600	+20	Drink
870	130 H, 3 ma	6000 ohms		Drive
872	24 H, 15 ma	1000 ohms		Drone

§ Max. level for 50-15000 CPS $\pm$ 1/2 db.

z Electrostatic shield between primary and secondary.

900 SERIES



Incorporated in each transformer is the correct type of alloy core, balanced coil construction to give identical voltage, capacity, resistance, etc., each side of centre. Hum-bucking core is used to reduce inductive pickup in the input and intermediate stages and stray field in the output stage. There is a complete range of types, most with multi-tap connections, and mounting studs are provided. The use of alloy cores makes it necessary to keep direct current out of the windings or arrange for very close balance of plate current in the case of push-pull stages.

Dim. 2 5/16" x 2 1/8" x 3 1/2" High Mtg. Cts. 1 1/16" x 2 1/16" Wt. 1 3/4 lbs.

Type	Primary	Secondary	Pri. DC*	DBM§	Code
903	*M-Line	*M-Line	125 z	+20	Drool
905	†A-Line	*M-Line	200 z	+20	Droop
906	200-200-200	*M-Line	65 z	+20	Dross
909	25000/100000	*M-Line	5	+15	Druid
910	*M-Line	25000/100000	100 z	+15	Drupe
912	*M-Line	12500/50000	130 z	+30	Dryad
917	2500/10000	*M-Line	100 z	#	Duber
918	2500/10000	25000/100000	60 z	#	Duchy
930	2500/10000	22500/90000	10	+20	Dulce
932	5000/20000	20000/80000	10	+20	Dumpy
933	5000/20000	5000/20000	13	+25	Dunce
934	5000/20000	2250/9000	13	+25	Durst
935	5000/20000	1250/5000	13	+25	Dusty
936	2500/10000	2500/10000	40	+35	Dutch
937	2500/10000	1100/4400	40	+35	Dwarf
938	2500/10000	625/2500	40	+35	Dwelt
940	2500/10000	*M-Line	13	+20	Dying
942	5000/20000	*M-Line	13	+20	Eager
943	750/3000	*M-Line	60	+35	Eagest
944	1000/4000	*M-Line	60	+35	Eagle
945	1250/5000	*M-Line	60	+35	Eagmi
946	2000/8000	*M-Line	60	+35	Eagro
947	2500/10000	*M-Line	50	+35	Early
948	3500/14000	*M-Line	50	+35	Earth
953	750/3000	‡M-V.C.	60	10w	Easle
954	1000/4000	‡M-V.C.	60	10w	Eaves
955	1250/5000	‡M-V.C.	60	10w	Ebony
956	1500/6000	‡M-V.C.	40	10w	Edict
957	1750/7000	‡M-V.C.	40	10w	Edify
958	2000/8000	‡M-V.C.	40	10w	Educe
959	2500/10000	‡M-V.C.	40	10w	Egrie
960	3500/14000	‡M-V.C.	40	10w	Egret
982	*M-Line	‡M-V.C.	200	10w	Easby

*M-Line matches 50, 125, 200, 250, 333, 500 ohm lines.

Exact balance on 125, 200 and 500 ohm taps.

†A-Line matches 10, 25, 40, 50, 67, 100 ohm lines.

Exact balance on 25, 40 and 100 ohm taps.

‡M-V.C. matches 1.5, 3.75, 6, 7.5, 10, 15 ohm voice coils.

Exact electrical balance on 3.75, 6 and 15 ohm taps.

*Max. DC per leg.

§Max level for 50-15000 CPS $\pm$ 1/2 db.

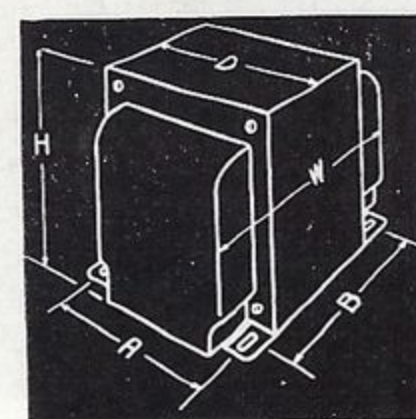
z Electrostatic shield between primary and secondary.

HAMMOND OUTPUT TRANSFORMERS



1600 SERIES

The importance of using a properly designed output transformer is becoming well known by sound men. Correct construction to give low leakage loss, freedom from saturation on peaks as well as low copper losses is essential for quality at the higher audio powers. The following outputs are the result of long experience, careful design and rigorous testing and will be found highly efficient for all regular sound work.



Type	Output Tubes	Watts	Primary	Output Taps	A	B	D	H	W	Wt.	Code
1610	6V6, 6AQ5	15	10000 ct	4/16	2 1/8	2 1/4	2 1/2	3	3 1/8	3	Elalx
1611	6V6, 6AQ5	15	10000 ct	8/32	2 1/8	2 1/4	2 1/2	3	3 1/8	3	Elaki
1615	PP 6B4G, 6A3, 6L6, 6V6	15	5000 ct	3.2, 6.4, 10	2 1/8	2 1/4	2 1/2	3	3 1/8	3	Elamz
1618	PP 6F6, 6A6, 6V6, 6AQ5	15	10000 ct	3.2, 6.4, 10	2 1/8	2 1/4	2 1/2	3	3 1/8	3	Eland
1633	PP 2A3, 6A3	30	3000 ct	4, 8, 15, 250, 500	2 1/2	2 1/4	3 1/8	3 3/4	3 3/4	5	Elder
1634	PP 45, PPP 6V6	30	4000 ct	4, 8, 15, 250, 500	2 1/2	2 1/4	3 1/8	3 3/4	3 3/4	5	Elegy
1635	PP 6L6, 6V6, PPP 6A6	30	5000 ct	4, 8, 15, 250, 500	2 1/2	2 1/4	3 1/8	3 3/4	3 3/4	5	Elims
1636	PP 46, 59, 6L6	30	6000 ct	4, 8, 15, 250, 500	2 1/2	2 1/4	3 1/8	3 3/4	3 3/4	5	Elate
1637	PP 6L6	30	6600 ct	4, 8, 15, 250, 500	2 1/2	2 1/4	3 1/8	3 3/4	3 3/4	5	Elide
1639	PP 6F6, 6A6, 6B5	30	10000 ct	4, 8, 15, 250, 500	2 1/2	2 1/4	3 1/8	3 3/4	3 3/4	5	Elite
1664	PP 6L6, 807, 6146	60	3800 ct	4, 8, 15, 30, 250, 500	2 1/2	3 1/4	3 1/8	3 3/4	4 1/2	8	Elude
1668	PP 807, 6146	75	4500 ct	4, 8, 15, 30, 250, 500	3	3	3 3/4	4 1/2	4 1/2	10	Eluge
1678	PP 809, 807, 6146	90	8000 ct	4, 8, 15, 30, 250, 500	3	3 3/8	3 3/4	4 1/2	4 3/4	11	Eluza
1682	PPP 6L6, 807	120	1900 ct	4, 8, 15, 30, 250, 500	3	4	3 3/4	4 1/2	5 3/4	15	Embue
1684	PP 807, 6146, 838	120	7000 ct	4, 8, 15, 30, 250, 500	3	4	3 3/4	4 1/2	5 3/4	15	Emcar



1700 SERIES

The 1700 series output transformers will give you finer quality reproduction. They have extremely low leakage reactance and are free of core saturation at full rated output down to 30 cycles. Other refinements in design reduce wave form distortion to negligible values. Frequency range is 30 to 12000 C.P.S. plus or minus 1 db. at full rated output. Low insertion loss of less than 1 db. means maximum power transfer. No feed back winding.

Type	Watts	Pri. Imp.	Output Taps	Dimensions	Mtg. Cts.	Wt., Lbs.	Code
1713	15	3000 ct	4, 8, 15, 30, 125, 250, 500	3 1/16 x 4 5/16 x 4	3 x 3 5/8	6 1/2	Drelt
1715	15	5000 ct	4, 8, 15, 30, 125, 250, 500	3 1/16 x 4 5/16 x 4	3 x 3 5/8	6 1/2	Drend
1731	30	1500 ct	4, 8, 15, 30, 125, 250, 500	3 1/16 x 4 5/16 x 4 3/4	3 x 3 5/8	8 1/2	Drenf
1736	30	6600 ct	4, 8, 15, 30, 125, 250, 500	3 1/16 x 4 5/16 x 4 3/4	3 x 3 5/8	8 1/2	Dresi
1739	30	9000 ct	4, 8, 15, 30, 125, 250, 500	3 1/16 x 4 5/16 x 4 3/4	3 x 3 5/8	8 1/2	Drexo
1764	60	3800 ct	4, 8, 15, 30, 125, 250, 500	4 5/16 x 5 3/16 x 5 1/2	3 5/8 x 4 1/2	15	Dreza

"ULTRA-LINEAR" TAPPED TYPES

The following output transformers have "Screen" taps on the primary to allow "Ultra-Linear" operation of output stage. 20 cps. to 30 KC at full rated output.

Type	Watts	Pri. Imp.	Output Taps	L. Ind.	Pri. Ind.*	Overall Dim.	Wt.	Code
1626	20	6600 ct	4/16	20 mh.	50 H	3 1/8 x 3 1/4 x 3 3/4	5	Elapa
1726	20	6600 ct	4, 8, 16	20 mh.	50 H	3 9/16 x 4 3/16 x 4	6 1/2	Drena

EXTENDED RANGE TYPES

These "Extended Range" types employ latest methods of construction, including multi-section coils, oriented steel core, Mylar insulation, etc. They are ideal for circuits requiring minimum phase shift, such as "Williamson," etc.

Type	Primary	Secondary	Pri. Ind.*	Leakage Ind.	Dimensions	Code
1770	10,000 ct	4, 8, 16 ohms	150 H.	12.8 mh.	4 5/16 x 5 3/16 x 6 H.	Dreab
1772	10,000 ct	4, 8, 16 ohms	100 H.	29.4 mh.	4 5/16 x 5 3/16 x 5 1/4 H.	Drebe

AMPLIFIER-TO-DISTRIBUTION SYSTEM MATCHING AUTO TRANSFORMER

1789 To match 500 ohm output of 30, 60, 100 or 120 watt amplifier to 70 volt distribution system. Compound-filled case. Wt. 11 lbs. Feiqr

*Min. measured at 5 v, 50 cy.

LINE TO SPEAKER

These matching transformers are useful where sound is required at distance of more than 100 feet from the amplifier. The 119-B and C are usually mounted on or at the speaker, but the 1782 and 1786 are useful where groups of speakers are required along a long line or on different floors of a building.

Primary Taps at 500, 1000 and 1500 ohms, allowing one, two, or three transformers to be connected across a 500 ohm line.

Type	Watts	Sec.	Wt.	Mtg. Cts.	Code
119B	3	3.2	3/8	2	Feigr
119C	5	3.2	1/2	2 3/8	Feigs
1782	30	4, 8, 15, 30	8	—	Doure
1786	60	4, 8, 15, 30	16	—	Dousa

Also see 382, 383, 481, 482, 483, Page 2.

SOUND DISTRIBUTION AUTOTRANSFORMERS with "POWER RATED" TAPS

This Popular Series makes an efficient and easily engineered sound installation possible. Six types match 3.2, 8 or 16 ohm speakers to a 70 volt distribution system, allowing power adjustments from 1/8 watt to 16 watts* in small increments. Open horizontal bracket. Solder lug terminals.

119-E 4 watts maximum, tapped to supply 4, 3, 2, 1 1/2, 1 3/4, 1/2 or 1/4 watts to a 3.2 ohm V.C. 1/2 x 1/2 core. Mounting centers 2 inches. Weight 1/2 lb. Code: Feigv.

119-F Same as 119-E except for 8 ohm V.C.* Code Feihk.

119-G 8 watts maximum, tapped to supply 8, 6, 4, 3, 2, 1 1/2, 1 or 1/2 watt to a 3.2 ohm V.C. 3/4 x 3/4 core. Mounting centers 2 3/4". Weight 1 lb. Code: Feif.

119-H Same as 119-G except for 8 ohm V.C.* Code: Feija.

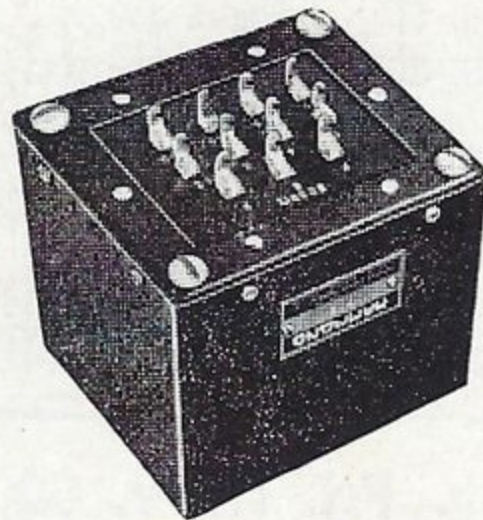
119-J 16 watts maximum, tapped to supply 16, 12, 8, 6, 4, 3, 2 or 1 watt to a 3.2 ohm V.C. 1 x 1 core. Mounting centers 3 5/8". Weight 2 1/4 lbs. Code: Feijk.

119-K Same as 119-J except for 8 ohm V.C.* Code: Feikx

*If a 16 ohm speaker is used, the power will be half that for an 8 ohm.

DRIVER TRANSFORMERS

Class "B" and "AB" Universal Single or P.P. Drivers to P.P. Grids. Ratios available, Primary to 1/2 Secondary: 1.25, 1.57, 2, 2.5, 3.2, 4, 5, 6.3 to 1.



Type	Watts	D.C.	Dim.	Wt. Lbs.	Code
1703	15	70	3 1/8 x 3 5/8 x 4 1/4 H	6	Mibia
1705	30	100	3 1/16 x 4 5/16 x 4 3/4 H	10	Mibos

MODULATION TRANSFORMERS

AMATEUR TYPES

These efficient and low cost modulation transformers have good response from 150 to 7,000 cps. "X" mounting. Black Wrinkle finish.

Type	Watts	Primary	Secondary	Sec. Ma.	Code
*2002	2	10000 ct	5000, 8000	20	Moert
†2004	3.5	10000 ct	4000, 6000	40	Moent
‡2010	10	10000 ct	4000, 6000	80	Moeny
2018	18	5000 ct	3500, 5500	120	Moeot
2030	30	6000 ct	5000, 7000	135	Moeak
2035	30	6000 ct	4000 & sc. wdg.	135	Moeed
2060	60	3800 ct	5000, 7000	150	Moark
2065	60	3800 ct	3000 & sc. wdg.	200	Moick
2067	60	6200 ct	2660 & sc. wdg.	150	Moita
2100	100	8000 ct	5000, 7000	200	Moitg
2180	175	15000 ct	5000, 7000	250	Moiab
2182	175	15000 ct	10000 & sc. wdg.	185	Moiot
2183	175	15000 ct	5000 & sc. wdg.	265	Moiax

* Brkt. Mtg. † 300 Series ‡ 400 Series Others "X" Mtg.

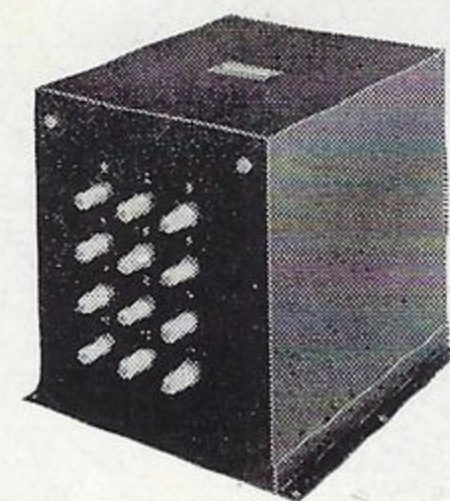
SEALED PROFESSIONAL TYPES

In compound filled, flange mounted cases. Ceramic insulated terminals on top. Ample primary inductance, low leakage reactance for high performance.

Type	Watts	Primary	Secondary	Sec. Ma.	Code
2205	50	6600 ct	3, 5, 7000	150	Moboy
2210	100	8500 ct	3, 5, 7000	200	Mobak
2220	175	15000 ct	3, 5, 7000	250	Mobbcc
2230	300	8000 ct	3, 5, 7000	350	Mobit
2250	500	11000 ct	3, 4, 5, 7000	500	Mobor

UNIVERSAL OIL-FILLED TYPES

Hermetically sealed, oil filled construction. Four tapped coils brought out to twelve solder-seal terminals. 200 impedance combinations listed.



Type	Watts	Pri. DC*	Sec. DC§	Wt.	Code
2310	100	150 Ma.	150/300	17	Modia
2320	175	200 Ma.	200/400	28	Modab
2330	300	350 Ma.	350/700	42	Modek
2350	500	500 Ma.	500/1000	60	Modot

*This value is average DC Ma. per side.

§This value is DC Ma. for series/par.

All values of watts specified are audio watts, and input to R.F. final may be double this power.

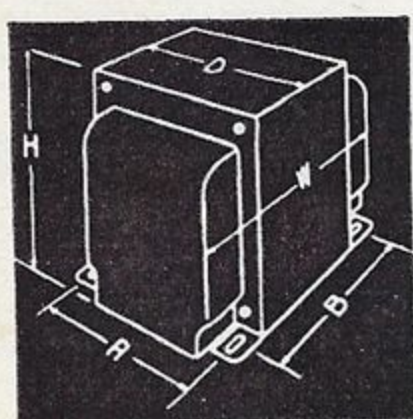
TYPE 2300 — GAP ASSEMBLY

For protection of Class "B" modulators up to 2 KW, 3000 volts DC. Glastic insulation. Spacing 0 to 3/8 inch. 4 x 3/4 x 2 3/4 inches high. Weight 2 1/2 oz. Mounting centers 3 1/2 inch. Code: Mobxv.

TYPE 2000 — TRANSCEIVER TRANSFORMER

Mic. and 10,000 ohm primary windings to single grid, 1/2 x 1/2 core Horizontal Bracket. 2" mounting centers. Code: Moibe.

HAMMOND POWER TRANSFORMERS



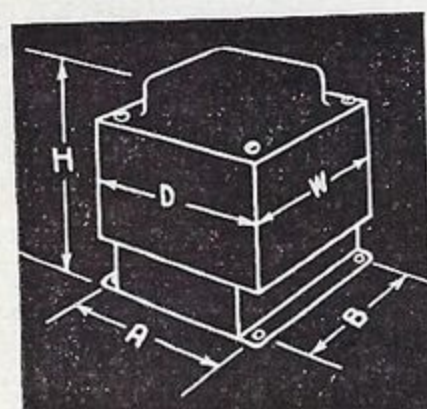
"X" TYPE MTG.

CSA APP. 3902

These have cores of high grade transformer steel, operated at moderate flux density for low temperature rise and high efficiency. The coils are multiple-machine wound for maximum copper cross-section and uniformity. They are then processed in the latest methods of vacuum drying and pressure varnish impregnation for long period reliability. Complete mechanical and electrical checking assure you of perfect performance. Standard finish black wrinkle. Insulated leads 9" to 12" to RMA standard color code.

All primaries 115 volts, 60 cycles — 25 cycle types on special order,

Type	VA	Sec. Volts	DC Ma.	Fil.	Fil.	Overall Dim.	Mtg. Centres	Wt.	Code
263AX	25	100-0-100	100	5.0 v., 2.0 a.	—	2½ x 2½ x 3 H	2⅛ x 1¾	2½	Fidak
263CX	78	180-0-180	250	5.0 v., 3.0 a. ct	—	3⅛ x 4 x 3¾ H	2½ x 2½	5½	Fidam
269BX	40	150-0-150	75	—	6.3 v., 2.0 a.	2½ x 2½ x 3 H	2⅛ x 1¾	2½	Fidab
270X	42	240-0-240	40	5.0 v., 2.0 a.	6.3 v., 1.5 a.	2½ x 2½ x 3 H	2⅛ x 1¾	2½	Fidde
270AX	42	240-0-240	50	—	6.3 v., 2.5 a.	2½ x 2½ x 3 H	2⅛ x 1¾	2¼	Fidev
270BX	51	275-0-275	50	5.0 v., 2.0 a.	6.3 v., 2.0 a.	2½ x 3 x 3 H	2⅛ x 2¼	3¼	Fidfi
270CX	50	275-0-275	65	6.3 v., 0.6 a.	6.3 v., 2.5 a.	2½ x 3 x 3 H	2⅛ x 2¼	3¼	Fidgk
271X	55	280-0-280	60	5.0 v., 2.0 a.	6.3 v., 2.0 a.	2⅞ x 3¼ x 3½ H	2⅜ x 2¼	3½	Fidhp
272X	70	310-0-310	70	5.0 v., 2.0 a.	6.3 v., 2.4 a.	3⅛ x 3½ x 3¾ H	2½ x 2¼	4½	Fidlr
272BX	86	300-0-300	100	5.0 v., 2.0 a.	6.3 v., 3.0 a.	3⅛ x 3¾ x 3¾ H	2½ x 2½	5½	Fidnt
273X	95	350-0-350	110	5.0 v., 2.0 a.	6.3 v., 4.0 a. ct	3⅛ x 4¼ x 3¾ H	2½ x 3	6½	Fidpv
273BX	133	350-0-350	175	5.0 v., 3.0 a.	6.3 v., 5.0 a. ct	3⅛ x 4⅞ x 3¾ H	2½ x 3⅝	8¾	Fidox
274X	115	375-0-375	110	5.0 v., 3.0 a.	6.3 v., 5.0 a. ct	3¾ x 4⅞ x 4½ H	3 x 2¼	7	Fidry
275X	135	400-0-400	135	5.0 v., 3.0 a. ct	6.3 v., 5.0 a. ct	3¾ x 4½ x 4½ H	3 x 2¾	8¾	Fidtz
276X	120	300-0-300	150	5.0 v., 3.0 a. ct	6.3 v., 5.0 a. ct	3¾ x 4 x 4½ H	3 x 2¼	7	Fidwb
278X	185	400-0-400	200	5.0 v., 3.0 a. ct	6.3 v., 6.0 a. ct	3¾ x 4¾ x 4½ H	3 x 3	10½	Fidyd
279X	131	425-0-425	150	5.0 v., 3.0 a.	6.3 v., 4.0 a. ct	3¾ x 4 x 4½ H	3 x 2¼	7	Fieaf



"Z" TYPE MTG.

CSA APP. 3902

A minimum of mounting area is required and the same fine constructional details are incorporated as in other Hammond Transformers. They have numerous applications, not only for replacement work but for use in Electronic Equipment for Industry, Amplifiers, etc. Standard finish black wrinkle; insulated leads 9" to 12" to RMA standard color code.

All primaries 115 volts, 60 cycles — 25 cycle types on special order,

Type	VA	Sec. Volts	DC Ma.	Fil.	Fil.	Overall Dim.	Mtg. Centres	Wt.	Code
268Z	25	200-0-200	35	—	6.3 v., 2.0 a.	2⅜ x 2⅝ x 3 H	1⅞	1¾	Fiado
269BZ	40	150-0-150	75	—	6.3 v., 2.0 a.	2½ x 3 x 3 H	2¼	2½	Fialt
270Z	42	240-0-240	40	5.0 v., 2.0 a.	6.3 v., 1.5 a.	2½ x 3 x 2¾ H	2¼	2½	Filch
270AZ	42	240-0-240	50	—	6.3 v., 2.5 a.	2½ x 3 x 3 H	2⅜	2½	Filkt
270BZ	51	275-0-275	50	5.0 v., 2.0 a.	6.3 v., 2.0 a.	2½ x 3 x 3¼ H	2¼	3¼	Filer
270CZ	50	275-0-275	65	6.3 v., 0.6 a.	6.3 v., 2.5 a.	2½ x 3 x 3¼ H	2¼	3¼	Filgr
271Z	55	280-0-280	60	5.0 v., 2.0 a.	6.3 v., 2.0 a.	2⅜ x 3⅜ x 3¼ H	2¼ x 2⅞	3½	Filly
272Z	70	310-0-310	70	5.0 v., 2.0 a.	6.3 v., 2.4 a.	3⅛ x 3¾ x 3⅝ H	2½ x 3⅞	4½	Finch
272BZ	86	300-0-300	100	5.0 v., 2.0 a.	6.3 v., 3.0 a.	3⅛ x 3¾ x 4 H	2½ x 3⅞	5½	Finod
273Z	95	350-0-350	110	5.0 v., 2.0 a.	6.3 v., 4.0 a. ct	3⅛ x 3¾ x 4⅜ H	2½ x 3⅞	6½	First
273BZ	133	350-0-350	175	5.0 v., 3.0 a.	6.3 v., 5.0 a. ct	3⅛ x 3¾ x 5 H	2½ x 3⅞	7	Fislm
274Z	115	375-0-375	110	5.0 v., 3.0 a.	6.3 v., 5.0 a. ct	3¾ x 4½ x 3¾ H	3 x 3¾	7	Fishy
275Z	135	400-0-400	135	5.0 v., 3.0 a. ct	6.3 v., 5.0 a. ct	3¾ x 4½ x 4¼ H	3 x 3¾	8¾	Fixed
276Z	120	300-0-300	150	5.0 v., 3.0 a. ct	6.3 v., 5.0 a. ct	3¾ x 4½ x 3¾ H	3 x 3¾	7	Flail
278Z	185	400-0-400	200	5.0 v., 3.0 a. ct	6.3 v., 6.0 a. ct	3¾ x 4½ x 4½ H	3 x 3¾	10¼	Flach
279Z	131	425-0-425	150	5.0 v., 3.0 a.	6.3 v., 4.0 a. ct	3¾ x 4½ x 4 H	3 x 3¾	7	Flusa

DUAL POWER TRANSFORMER, "X" Mounting. Pri. 115 v. 60 cy.

Type	VA	Sec. Volts	DC Ma.	Fil.	Fil.	Overall Dim.	Mtg. Centres	Wt.	Code
277X	236	500-0-500 300-0-300	200 75	5.0 v., 3.0 a. ct 5.0 v., 2.0 a.	— 6.3 v., 6.0 a. ct	3¾ x 5½ x 4½ H	3 x 4⅞	15	Gamex

262 SERIES FOR SELENIUM, GERMANIUM OR SILICON RECTIFIERS

This series of power transformers will find many uses in construction of Test Equipment, Bias Supplies, or other pieces of Electronic Equipment. The 120-volt secondary of the transformers listed below are designed for half-wave, voltage doubler, single phase bridge, etc., rectifiers. Primary 115 v., 60 cycle.

Type	Va.	Sec.	Ma. DC	Filament	Core Size	Mtg.	Mtg. Cts.	Overall	Wt. Lbs.	Code
262 B 60	4	120 v.	15	6.3 v., 0.3 a.	$\frac{5}{8} \times \frac{5}{8}$	BRKT	$2\frac{3}{8}$	$2\frac{7}{8} \times 1\frac{3}{4} \times 1\frac{5}{8}$	$\frac{5}{8}$	Fodam
262 D 60	8	120 v.	30	6.3 v., 0.6 a.	$\frac{3}{4} \times \frac{3}{4}$	BRKT	$2\frac{1}{16}$	$3\frac{5}{16} \times 1\frac{7}{8} \times 2$	1	Fodux
262 F 60	16	120 v.	75	6.3 v., 1.0 a.	$\frac{7}{8} \times \frac{7}{8}$	BRKT	$3\frac{1}{8}$	$3\frac{3}{4} \times 2\frac{5}{8} \times 2\frac{1}{4}$	$1\frac{1}{2}$	Fodxc
262 G 60	25	120 v.	100	6.3 v., 2.0 a.	1 x 1	X	$2\frac{1}{8} \times 1\frac{3}{4}$	$2\frac{1}{2} \times 2\frac{5}{8} \times 3$	$2\frac{1}{2}$	Fodra
262 J 60	34	120 v.	150	6.3 v., 2.5 a.	1 x $1\frac{1}{2}$	X	$2\frac{1}{8} \times 2\frac{1}{4}$	$2\frac{1}{2} \times 3\frac{1}{8} \times 3$	$3\frac{1}{4}$	Fodsb
262 L 60	43	120 v.	200	6.3 v., 3.0 a.	1 x 2	X	$2\frac{1}{8} \times 2\frac{3}{4}$	$2\frac{1}{2} \times 3\frac{5}{8} \times 3$	$3\frac{1}{2}$	Fodtd
262 P 60	68	120 v.	300	6.3 v., 5.0 a.	$1\frac{1}{4} \times 1\frac{1}{4}$	X	$2\frac{1}{2} \times 2\frac{1}{4}$	$3\frac{1}{8} \times 3\frac{3}{4} \times 3\frac{3}{4}$	$4\frac{1}{2}$	Fodug
262 R 60	110	120 v.	500	6.3 v., 8.0 a.	$1\frac{1}{4} \times 2$	X	$2\frac{1}{2} \times 3$	$3\frac{1}{8} \times 4\frac{1}{2} \times 3\frac{3}{4}$	$6\frac{1}{2}$	Fodxl

A.C.-D.C. VIBRATOR-POWER TRANSFORMERS

These transformers have four separate windings — (a) 115 v. 50/60 cycles; (b) centre-tapped primary for vibrator; (c) H.V. secondary 300-0-300 v., 75 MA DC; (d) 6.3 v. ct, 4 a. filament. "X" mounting.

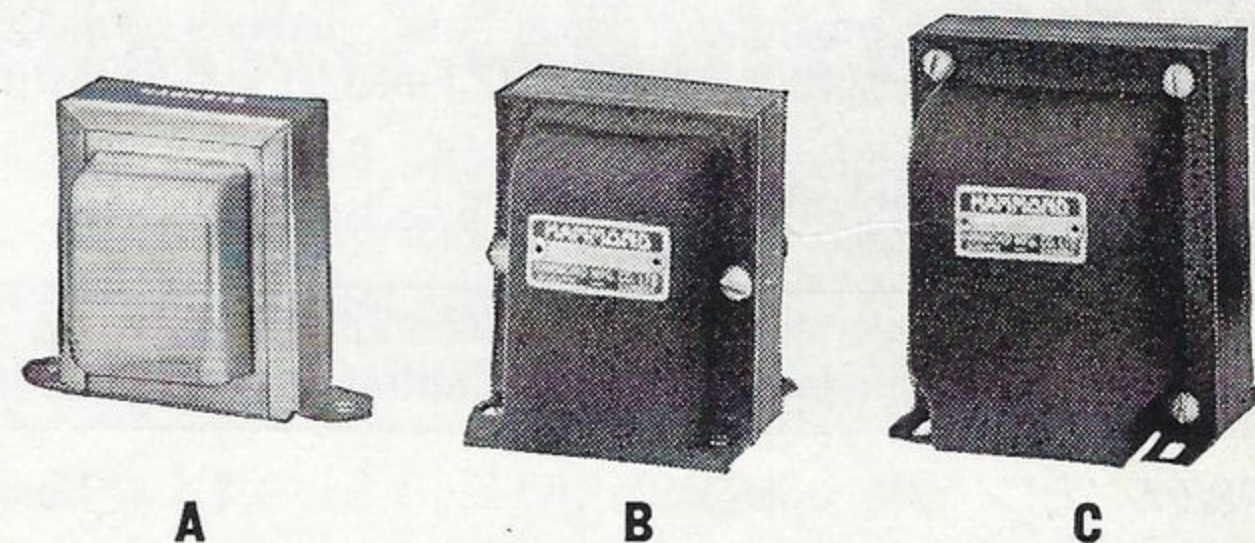
Type **284** for 6 volt vibrator or 115 volt 50/60 cycle. Dimensions $3\frac{1}{8} \times 4 \times 3\frac{3}{4}$ H. Weight $6\frac{1}{4}$ lbs. Gabil.

Type **285** for 12 volt vibrator or 115 volt 50/60 cycle. Dimensions $3\frac{1}{8} \times 4 \times 3\frac{3}{4}$ H. Weight $6\frac{1}{4}$ lbs. Gabom.

164 SERIES VIBRATOR TRANSFORMERS

FOR 6 & 12 VOLT VIBRATORS

For use in auto-radios and vibrator power supplies for mobile and marine radio receiving and transmitting equipment. Each one employs electrostatic shield and is designed for most efficient operation for minimum battery drain. Each model has steel side cases for necessary shielding.



Type	Pri. Volts	DC Volts	DC Ma.	Core	Mtg.	Mtg. Cts.	Overall	Wt. Lbs.	Code
164-6	6	150	40	$\frac{3}{4} \times \frac{3}{4}$	A	$2\frac{3}{8}$	$2 \times 2\frac{3}{8} \times 2\frac{3}{4}$	1	Guaab
164-12	12	150	40	$\frac{3}{4} \times \frac{3}{4}$	A	$2\frac{3}{8}$	$2 \times 2\frac{3}{8} \times 2\frac{3}{4}$	1	Guacd
164 A 6	6	180	45	$\frac{3}{4} \times 1$	A	$2\frac{3}{8}$	$2\frac{1}{4} \times 2\frac{3}{8} \times 2\frac{3}{4}$	$1\frac{1}{3}$	Guagi
164 A 12	12	180	45	$\frac{3}{4} \times 1$	A	$2\frac{3}{8}$	$2\frac{1}{4} \times 2\frac{3}{8} \times 2\frac{3}{4}$	$1\frac{1}{3}$	Guahj
164 B 6	6	200	45	$\frac{7}{8} \times \frac{7}{8}$	A	$2\frac{7}{8}$	$2\frac{3}{8} \times 2\frac{3}{4} \times 3\frac{5}{8}$	$1\frac{1}{2}$	Guars
164 B 12	12	200	45	$\frac{7}{8} \times \frac{7}{8}$	A	$2\frac{7}{8}$	$2\frac{3}{8} \times 2\frac{3}{4} \times 3\frac{5}{8}$	$1\frac{1}{2}$	Guaqn
164 C 6	6	250	50	1 x 1	B	$2\frac{1}{8} \times 1\frac{3}{4}$	$2\frac{1}{2} \times 3 \times 2\frac{5}{8}$	$2\frac{1}{4}$	Guess
164 C 12	12	250	50	1 x 1	B	$2\frac{1}{8} \times 1\frac{3}{4}$	$2\frac{1}{2} \times 3 \times 2\frac{5}{8}$	$2\frac{1}{4}$	Guetu
164 J 6	6	275	60	1 x $1\frac{1}{2}$	B	$2\frac{1}{8} \times 2$	$2\frac{1}{2} \times 3 \times 2\frac{7}{8}$	$2\frac{3}{4}$	Gueux
164 J 12	12	275	60	1 x $1\frac{1}{2}$	B	$2\frac{1}{8} \times 2$	$2\frac{1}{2} \times 3 \times 2\frac{7}{8}$	$2\frac{3}{4}$	Gueyz
164 D 6	6	300	70	$1\frac{1}{8} \times 1\frac{1}{8}$	C	$2\frac{1}{4} \times 2\frac{1}{8}$	$2\frac{1}{16} \times 3\frac{1}{2} \times 3\frac{1}{8}$	$3\frac{1}{3}$	Guery
164 D 12	12	300	70	$1\frac{1}{8} \times 1\frac{1}{8}$	C	$2\frac{1}{4} \times 2\frac{1}{8}$	$2\frac{1}{16} \times 3\frac{1}{2} \times 3\frac{1}{8}$	$3\frac{1}{3}$	Guete
164 E 6	6	325	100	$1\frac{1}{4} \times 1\frac{1}{4}$	C	$2\frac{1}{2} \times 2\frac{1}{4}$	$3\frac{1}{8} \times 3\frac{3}{4} \times 3\frac{5}{8}$	$4\frac{1}{2}$	Guelz
164 E 12	12	325	100	$1\frac{1}{4} \times 1\frac{1}{4}$	C	$2\frac{1}{2} \times 2\frac{1}{4}$	$3\frac{1}{8} \times 3\frac{3}{4} \times 3\frac{5}{8}$	$4\frac{1}{2}$	Guemo

SMALL FILAMENT TRANSFORMERS

All primaries 115 volts, 60 cycle.

Type	Sec. Volts	Sec. Amps	Mtg.	Mtg. Cts.	Wt.	Code
165B	5.0	2.0	Brkt.	2 $\frac{3}{8}$	1.3	Gunee
167B	6.3	0.3	Brkt.	2	0.4	Guobe
167C	6.3	1.0	Brkt.	2 $\frac{3}{4}$	1.0	Guobl
167D	6.3	2.0 ct	Brkt.	2 $\frac{3}{8}$	1.3	Guobo
167E	6.3	4.0 ct	X	1 $\frac{3}{4}$ x 2 $\frac{1}{8}$	2.3	Guolt
167F*	6.3	1.2	Brkt.	2 $\frac{3}{4}$	1.0	Guonw
167K	12.6	0.3 ct	Brkt.	2 $\frac{3}{8}$	0.6	Guoos
167L	12.6	1.0 ct	Brkt.	2 $\frac{3}{8}$	1.3	Guore
167M	12.6	2.0 ct	X	1 $\frac{3}{4}$ x 2 $\frac{1}{8}$	2.3	Guosf
167P	25.0	1.5 ct	X	2 $\frac{3}{8}$ x 2 $\frac{1}{8}$	3.1	Guosg
167Q	25.0	3.0 ct	X	2 $\frac{1}{2}$ x 2 $\frac{1}{8}$	4.4	Guotn

*High voltage insulation (7000 volts RMS test) for Damper Tube.

LINE REGULATING and VOLTAGE-CHANGING AUTOTRANSFORMERS

The following units are ideal for correcting high or low line voltage. They have a single winding correctly proportioned and tapped for this type of work. Accurate voltage adjustment with good regulation is provided. "Knock-outs" enable easy installation to be made in special equipment. Finished in black wrinkle baked enamel.

Taps at 85, 95, 105, 110, 115, 125 volts. 50/60 cycle.

Type	Output V.A.	Overall Dimensions	Mounting Centres	Wt.	Code
168B	200	3 $\frac{1}{8}$ x 3 $\frac{1}{4}$ x 3 $\frac{3}{4}$ H	2 $\frac{1}{2}$ x 2	4 $\frac{1}{4}$	Gulch
168D	500	3 $\frac{3}{4}$ x 4 x 4 $\frac{1}{2}$ H	3 x 2 $\frac{5}{8}$	8	Gumbo
168F	1000	5 x 5 $\frac{1}{4}$ x 6 $\frac{1}{2}$ H	4 $\frac{1}{2}$ x 3 $\frac{1}{4}$	18	Gusum
168H	1500	5 x 5 $\frac{3}{4}$ x 6 $\frac{1}{2}$ H	4 $\frac{1}{2}$ x 3 $\frac{3}{4}$	23	Gustz
168J	2000	5 x 6 $\frac{1}{2}$ x 6 $\frac{1}{2}$ H	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	31	Gusuu

230 to 115 VOLTAGE-CHANGING TYPES

Input for 220 to 250 volts, 50/60 cycle.

Output tap gives half input volts or 110 to 125 volts.

Type	Output V.A.	Overall Dimensions	Mounting Centres	Wt.	Code
170A	100	3 $\frac{1}{8}$ x 3 $\frac{3}{4}$ x 3 $\frac{3}{4}$ H	2 $\frac{1}{2}$ x 2 $\frac{1}{4}$	5	Gynoc
170B	200	3 $\frac{1}{8}$ x 4 $\frac{1}{4}$ x 3 $\frac{3}{4}$ H	2 $\frac{1}{2}$ x 3	7	Gynar
170C	300	3 $\frac{3}{4}$ x 4 $\frac{1}{4}$ x 4 $\frac{1}{2}$ H	3 x 2 $\frac{7}{8}$	9	Gyxar
170D	500	3 $\frac{3}{4}$ x 5 $\frac{1}{2}$ x 4 $\frac{1}{2}$ H	3 x 4 $\frac{1}{8}$	15	Gyxal
170F	1000	5 x 6 $\frac{1}{2}$ x 6 $\frac{1}{2}$ H	4 $\frac{1}{2}$ x 4 $\frac{1}{4}$	26 $\frac{1}{2}$	Gyxat
170G	1500	5 x 7 $\frac{1}{4}$ x 6 $\frac{1}{2}$ H	4 $\frac{1}{2}$ x 5 $\frac{1}{4}$	36	Gyxbx

TYPE 165 Dual Sec. 2.5/5 Volts

Rectifier Service, 1000 v., DC Max.

Primary 115 volts, 60 cycle, X mounting.

Type	Sec. Volts	Sec. Amps	Overall Dimensions	Mounting Centres	Wt.	Code
165	2.5 2.5	3.0 3.0	2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 3 H	2 $\frac{1}{8}$ x 1 $\frac{3}{4}$	2 $\frac{1}{4}$	Guida

TYPE 166 Dual Sec. 2.5/5 Volts

Rectifier Service, 1000 v., DC Max.

Primary 115 volts, 60 cycle, X mounting

Type	Sec. Volts	Sec. Amps	Overall Dimensions	Mounting Centres	Wt.	Code
166	2.5 2.5	6.0 6.0	2 $\frac{1}{2}$ x 3 x 3H	2 $\frac{1}{8}$ x 2 $\frac{1}{4}$	3 $\frac{1}{2}$	Guild

DUAL FILAMENT TRANSFORMERS

For Rectifier and Heaters.

Primary 115 volts, 60 cycle, X mounting.

Type	Sec. Volts	Sec. Amps	Overall Dimensions	Mounting Centres	Wt.	Code
266	5.0 6.3	2.0 4.0	2 $\frac{1}{2}$ x 2 $\frac{7}{8}$ x 3 H	2 $\frac{1}{8}$ x 2	3	Galmm
267	5.0 6.3	3.0 6.0	3 $\frac{1}{8}$ x 3 $\frac{1}{2}$ x 3 $\frac{3}{4}$ H	2 $\frac{1}{2}$ x 2 $\frac{1}{4}$	4 $\frac{1}{2}$	Galop

TAPPED ISOLATING and LINE REGULATING TRANSFORMERS

Primary 115 volts, 60 cycle, X mounting. Electrostatic shield.
Secondary tapped at 90, 100, 110, 115, 120, 130 volts.

Type	Output V.A.	Overall Dimensions	Mounting Centres	Wt.	Code
169C	100	3 $\frac{1}{8}$ x 4 x 3 $\frac{3}{4}$ H	2 $\frac{1}{2}$ x 2 $\frac{1}{2}$	6	Gvkac
169E	250	3 $\frac{3}{4}$ x 5 $\frac{3}{4}$ x 4 $\frac{1}{2}$ H	3 x 4	12	Gvkef
169G	500	5 x 5 $\frac{1}{2}$ x 6 $\frac{1}{2}$ H	4 $\frac{1}{2}$ x 3 $\frac{3}{4}$	22	Gvkgh

ISOLATING TRANSFORMERS

115 volts to 115 volts, 50/60 cycle, X mounting.

Type	Output V.A.	Overall Dimensions	Mounting Centres	Wt.	Code
171A	100	3 $\frac{3}{4}$ x 4 x 4 $\frac{3}{4}$ H	3 x 2 $\frac{3}{8}$	7 $\frac{1}{2}$	Jogat
171B	200	3 $\frac{3}{4}$ x 5 $\frac{1}{8}$ x 4 $\frac{3}{4}$ H	3 x 3 $\frac{7}{8}$	12	Jogta
171C	300	3 $\frac{3}{4}$ x 6 $\frac{1}{2}$ x 4 $\frac{3}{4}$ H	3 x 4 $\frac{3}{8}$	18	Joqul
171E	500	5 x 6 x 6 $\frac{1}{2}$ H	4 $\frac{1}{2}$ x 3 $\frac{3}{4}$	24	Joqua

ISOLATING TRANSFORMERS

230 volts to 115 volts, 50/60 cycle, X mounting.

Type	Output V.A.	Overall Dimensions	Mounting Centres	Wt.	Code
172A	100	3 $\frac{3}{4}$ x 4 x 4 $\frac{3}{4}$ H	3 x 2 $\frac{3}{8}$	7 $\frac{1}{2}$	Johoz
172B	200	3 $\frac{3}{4}$ x 5 $\frac{1}{8}$ x 4 $\frac{3}{4}$ H	3 x 3 $\frac{7}{8}$	12	Johve

TYPE 173 300 WATT LINE VOLTAGE REGULATOR

FOR TELEVISION OR SMALL ELECTRONIC UNITS

Ten point tap switch accomodates line voltages of 85 to 125. Output from 115 volt tap. 0-150 voltmeter — on-off switch — 8 ft. cord and plug — single receptacle at rear of cabinet.

Type 173

Dim. $6\frac{1}{2} \times 5 \times 5\frac{3}{4}$ High

Weight $9\frac{1}{2}$ lbs.

Code: Julbo



C.S.A. Approved

174 SERIES LINE VOLTAGE REGULATORS



Heavy steel cabinet, $8\frac{1}{2} \times 13\frac{1}{4} \times 8\frac{1}{2}$, gray Hammerlin finish. Accurate 0-150 voltmeter. Ten-point heavy duty type tap switch with silver contacts. Double outlet receptacle. Plastic carrying handle. Input voltages of 85 to 125 volts can be accomodated for a normal output of 110 or 115 volts, 60 cycles.

Type	Max. Output	Net Weight	Code
174D60	500 V.A.	19 lbs.	Jojiz
174F60	1000 V.A.	23 lbs.	Jojuc
174H60	1500 V.A.	29 lbs.	Jujkm

C.S.A. Approved

H.V. OSCILLOSCOPE TRANSFORMERS

In addition to the 115 v. primary, a high voltage winding capable of supplying up to 10 ma. D.C. after half-wave rectifier, a 2.5 v. rectifier filament winding and a shielded 6.3 v. 0.6 A. CRT filament winding are provided. The filament windings and H.V. end of secondary have insulated leads. Primary and "Low" terminal of high-voltage secondary have solder lug terminals.

214-60	Sec. 800 v. R.M.S., 2.5 v. 1.75 A., 6.3 v. 0.6 A.	Dim. $3\frac{1}{8} \times 3\frac{5}{8} \times 3\frac{1}{4}$ H.	Weight $3\frac{3}{4}$ lbs.	Code: Impid
215-60	Sec. 1500 v. R.M.S., 2.5 v. 1.75 A., 6.3 v. 0.6 A.	Dim. $3\frac{1}{8} \times 3\frac{5}{8} \times 3\frac{1}{4}$ H.	Weight $4\frac{1}{4}$ lbs.	Code: Impor
216-60	Sec. 3000 v. R.M.S., 2.5 v. 1.75 A., 6.3 v. 0.6 A.	Dim. $3\frac{1}{16} \times 4\frac{5}{16} \times 4$ H.	Weight $10\frac{1}{2}$ lbs.	Code: Impox
218-60	Sec. 7000 v. R.M.S., 2.5 v. 5A., 6.3 v. 0.6 A.	Dim. $4\frac{5}{16} \times 5\frac{3}{16} \times 4\frac{1}{2}$ H.	Weight 15 lbs.	Code: Impoz

T.V. COMPONENTS

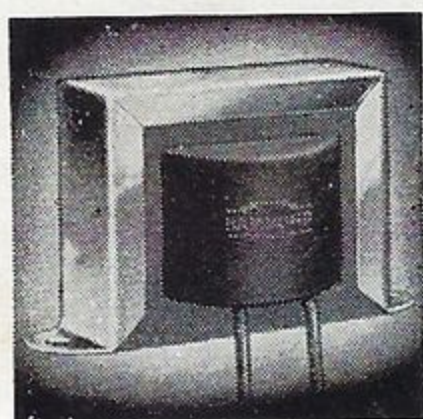
VERTICAL OUTPUTS — (For coupling vertical output tube to yoke.)

This series covers the general range of Vertical Output replacements. All have horizontal bracket mounting, 8" color coded leads. Designed and insulated to give high performance and trouble-free service.

Type	Ratio	Core	Mtg. Cts.	Min. Imp.	Net Weight	Code
161C	11.4:1	$\frac{3}{4} \times \frac{3}{4}$	$2\frac{1}{16}$	16,000*	1 lb.	Imqaf
161E	10:1	$\frac{7}{8} \times \frac{7}{8}$	$3\frac{1}{8}$	18,000*	$1\frac{3}{4}$ lbs.	Imqdg
161J	14:1	$\frac{7}{8} \times \frac{7}{8}$	$3\frac{1}{8}$	20,000*	$1\frac{3}{4}$ lbs.	Imqek
161Q	44:1	$\frac{7}{8} \times \frac{7}{8}$	$3\frac{1}{8}$	21,000#	$1\frac{3}{4}$ lbs.	Imqfl

* at 30v. 60 cy. 20 ma. # at 80 v. 60 cy. 15 ma.

Other TV Items — Chokes, page 10; Outputs, page 1; Fil. transformer for Damper tube (167F60) page 8.



The following chokes have quiet and carefully adjusted gaps to give maximum inductance with minimum DC resistance, size and weight. "Hi-Seal" vacuum impregnation for reliability is used. Tolerance is $\pm 10\%$ on resistance and $\pm 15\%$ on inductance. Inductance is measured with rated DC at 30v, 60 cycles (5 volts on heavy current type).

FILTER or SMOOTHING CHOKES — Replacement Types

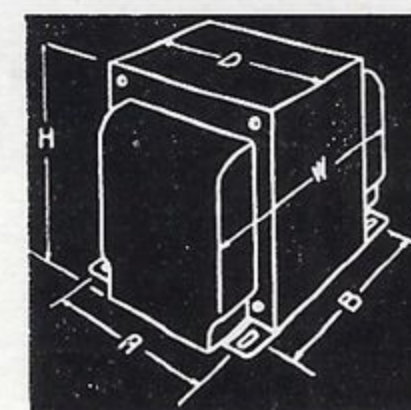
Bracket type mounting, insulated leads. For radio replacements, for sound equipment and for low voltage circuits in transmitters and electronic equipment. Cadmium finish.

Type	Henrys at Max.	Current Ma.	Resistance Ohms	Max. Op. Peak Volts	Mounting Centres	Weight Lbs.	Core Size	Code
148	9	40	700	400	1 $\frac{3}{4}$ "	$\frac{1}{4}$	$\frac{3}{8}$ x $\frac{3}{8}$	Hapfa
149	2	100	175	400	1 $\frac{3}{4}$ "	$\frac{1}{4}$	$\frac{3}{8}$ x $\frac{3}{8}$	Hapgd
150	60	8	2750	400	2"	$\frac{3}{8}$	$\frac{1}{2}$ x $\frac{1}{2}$	Hapix
151	150	8	3700	400	2 $\frac{3}{8}$ "	$\frac{1}{2}$	$\frac{5}{8}$ x $\frac{5}{8}$	Haplo
152	7	40	340	400	2"	$\frac{3}{8}$	$\frac{1}{2}$ x $\frac{1}{2}$	Hapos
153	9	40	300	400	2 $\frac{3}{8}$ "	$\frac{1}{2}$	$\frac{5}{8}$ x $\frac{5}{8}$	Hindu
154	10	65	205	400	2 $\frac{3}{4}$ "	1	$\frac{3}{4}$ x $\frac{3}{4}$	Happy
155	30	40	595	400	2 $\frac{3}{4}$ "	1	$\frac{3}{4}$ x $\frac{3}{4}$	Hardy
156	50	30	950	400	2 $\frac{3}{8}$ "	1 $\frac{1}{4}$	$\frac{3}{4}$ x 1	Harem
157	27	75	395	500	3 $\frac{5}{8}$ "	2 $\frac{1}{4}$	1 x 1	Harpy
158	10	125	155	500	3 $\frac{5}{8}$ "	2 $\frac{1}{4}$	1 x 1	Harry
159	4	225	65	500	3 $\frac{5}{8}$ "	2 $\frac{1}{4}$	1 x 1	Harta

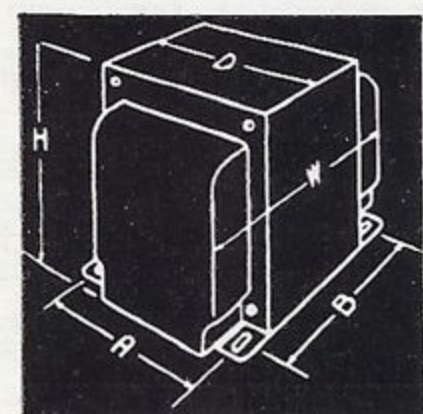


FILTER or SMOOTHING CHOKE — Shielded Type

"X" type drawn steel cases make this series of chokes desirable for sound equipment, transmitters and electronic equipment. Insulated leads 8" to 10" long. Black wrinkle finish.

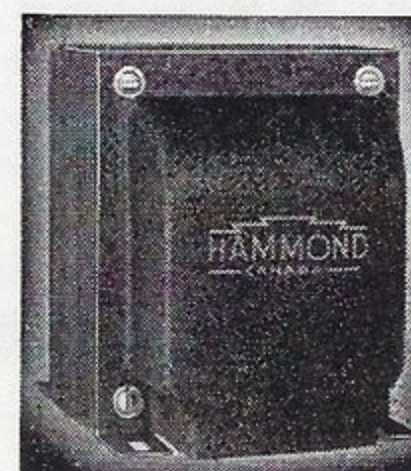


Type	Induc. Henrys	Current Ma.	Resist. Ohms	Max. Op. Pk. Volts	A	B	D	H	W	Weight Lbs.	Core Size	Code
10-100X	15	100	155	600	2 $\frac{1}{8}$	1 $\frac{3}{4}$	2 $\frac{1}{2}$	3	2 $\frac{1}{2}$	2 $\frac{1}{2}$	1 x 1	Helix
10-150X	10	150	102	800	2 $\frac{1}{2}$	2	3 $\frac{1}{8}$	3 $\frac{3}{4}$	3 $\frac{1}{2}$	4 $\frac{1}{4}$	1 $\frac{1}{4}$ x 1	Hello
5-200X	5	200	65	600	2 $\frac{1}{8}$	1 $\frac{3}{4}$	2 $\frac{1}{2}$	3	2 $\frac{3}{4}$	2 $\frac{1}{2}$	1 x 1	Helid
10-200X	10	200	82	800	2 $\frac{1}{2}$	2 $\frac{1}{4}$	3 $\frac{1}{8}$	3 $\frac{3}{4}$	4	5 $\frac{1}{2}$	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$	Helve
5-300X	5	300	57	800	2 $\frac{1}{2}$	2 $\frac{1}{4}$	3 $\frac{1}{8}$	3 $\frac{3}{4}$	4	5 $\frac{1}{2}$	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$	Hemab
10-300X	10	300	63	800	3	3	3 $\frac{3}{4}$	4 $\frac{1}{2}$	5	10 $\frac{1}{2}$	1 $\frac{1}{2}$ x 2	Hence
5-500X	5	500	26	800	3	3 $\frac{1}{4}$	3 $\frac{3}{4}$	4 $\frac{1}{2}$	5	10 $\frac{3}{4}$	1 $\frac{1}{2}$ x 2 $\frac{1}{4}$	Hendi
10-500X	10	500	53	1000	4 $\frac{9}{16}$	3 $\frac{1}{2}$	5	6 $\frac{3}{8}$	5 $\frac{1}{2}$	21	2 x 2	Henna
30-65X	30	65	380	600	2 $\frac{1}{8}$	1 $\frac{3}{4}$	2 $\frac{1}{2}$	3	2 $\frac{3}{4}$	2 $\frac{1}{4}$	1 x 1	Henni
30-100X	30	100	280	800	2 $\frac{1}{2}$	2 $\frac{1}{4}$	3 $\frac{1}{8}$	3 $\frac{7}{8}$	3 $\frac{1}{4}$	4 $\frac{3}{4}$	1 $\frac{1}{4}$ x 1 $\frac{1}{4}$	Henry
30-150X	30	150	210	800	3	2 $\frac{1}{2}$	3 $\frac{3}{4}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	8	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$	Heron
30-200X	26	200	152	800	3	3 $\frac{3}{8}$	3 $\frac{3}{4}$	4 $\frac{1}{2}$	5 $\frac{3}{8}$	11 $\frac{1}{2}$	1 $\frac{1}{2}$ x 2 $\frac{1}{4}$	Hilly
30-300X	30	300	144	1000	4 $\frac{9}{16}$	3 $\frac{3}{4}$	5	6 $\frac{3}{8}$	5 $\frac{3}{4}$	21 $\frac{1}{2}$	2 x 2 $\frac{1}{4}$	Hiltz



HEAVY-CURRENT CHOKES — Shielded Type

Many requirements for chokes or reactors for exciter lamp supply units, floating battery chargers where ripple must be eliminated, machine control units, etc., can be met by the following types. They have maximum inductance and current ratings for their size and will operate continuously at full rated current with 35° C. rise or less.



Type	Henrys at Max.	Current Amps.	Res. Ohms	Max. Op. Pk. Volts	A	B	D	H	W	Wt. Lbs.	Code
192C	0.06	2	0.7	300	2 $\frac{1}{8}$	1 $\frac{3}{4}$	2 $\frac{1}{2}$	3	2 $\frac{5}{8}$	3 $\frac{1}{2}$	Himba
192F	0.2	2	1.7	300	2 $\frac{1}{2}$	3	3 $\frac{1}{8}$	3 $\frac{3}{4}$	4 $\frac{3}{8}$	6 $\frac{3}{4}$	Hinla
193F	0.14	3	1.0	300	3	3	3 $\frac{3}{4}$	4 $\frac{1}{2}$	4 $\frac{3}{4}$	10 $\frac{1}{4}$	Hinno
195F	0.1	5	0.55	300	4 $\frac{9}{16}$	3 $\frac{3}{4}$	5	6 $\frac{1}{2}$	5 $\frac{1}{2}$	18 $\frac{1}{2}$	Hinre
197B	.008	10	0.1	300	2 $\frac{1}{2}$	2 $\frac{1}{2}$	3 $\frac{1}{8}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	5 $\frac{3}{4}$	Hintc
197C	.018	10	0.16	300	3	2 $\frac{3}{4}$	3 $\frac{3}{4}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	9	Hinuf
197D	0.05	10	0.18	300	4 $\frac{9}{16}$	4 $\frac{3}{4}$	5	6 $\frac{3}{8}$	6 $\frac{1}{2}$	26	Hinso



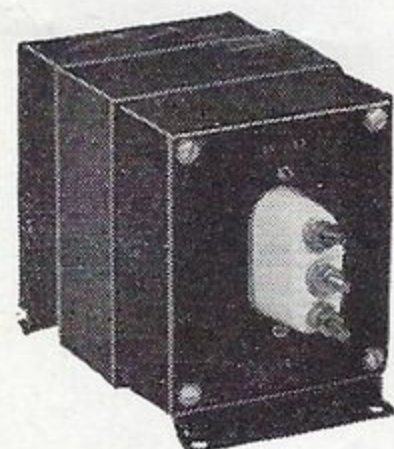
HIGH VOLTAGE FILTER CHOKES

In the tables below, actual inductance characteristics, within 15 per cent., and resistance values within 10 per cent. at 23° C. are shown. Porcelain insulators 1" diameter on 1½" centres are provided on all types. The height of the insulator and terminal bolt is 1¼".

Type	Current MA.	Henrys at Rated MA.	Resistance Ohms	Max. Optg. Peak Volts	Case Dimensions	Mounting Dimensions	Wt. Lbs.	Code
10V200	200	10	82	4000	3 $\frac{11}{16}$ x 4 $\frac{5}{16}$ x 4 H	3 x 3 $\frac{5}{8}$	7 $\frac{3}{4}$	Hatch
10V300	300	8.7	63	4000	4 $\frac{5}{16}$ x 5 $\frac{3}{16}$ x 4 $\frac{1}{2}$	3 $\frac{5}{8}$ x 4 $\frac{1}{2}$	13 $\frac{1}{2}$	Haunt
10V500	500	9.1	54	4000	5 $\frac{3}{4}$ x 6 $\frac{3}{4}$ x 5 $\frac{1}{2}$	4 $\frac{7}{8}$ x 5 $\frac{7}{8}$	24	Havoc
10V750	750	9.6	29	5000	5 $\frac{3}{4}$ x 6 $\frac{3}{4}$ x 8 $\frac{1}{2}$	4 $\frac{7}{8}$ x 5 $\frac{7}{8}$	35	Hawse
10V1000	1000	9.4	26	5000	7 x 8 $\frac{1}{4}$ x 7 $\frac{1}{2}$	6 $\frac{1}{8}$ x 7 $\frac{3}{8}$	54	Hazel
5V1000	1000	5.0	16	5000	5 $\frac{3}{4}$ x 6 $\frac{3}{4}$ x 7 $\frac{1}{2}$	4 $\frac{7}{8}$ x 5 $\frac{7}{8}$	36	Hozos
5V1500	1500	4.7	12	5000	7 x 8 $\frac{1}{4}$ x 7 $\frac{1}{2}$	6 $\frac{1}{8}$ x 7 $\frac{3}{8}$	59	Hazzi
5V2000	2000	4.5	9	5000	8 $\frac{5}{8}$ x 10 $\frac{1}{8}$ x 10	7 $\frac{3}{4}$ x 9 $\frac{1}{4}$	114	Hazzo
30V150	150	23	193	4000	4 $\frac{5}{16}$ x 5 $\frac{3}{16}$ x 4 $\frac{1}{2}$	3 $\frac{5}{8}$ x 4 $\frac{1}{2}$	11 $\frac{1}{2}$	Heath
30V200	200	23	155	4000	4 $\frac{5}{16}$ x 5 $\frac{3}{16}$ x 5 $\frac{1}{4}$	3 $\frac{5}{8}$ x 4 $\frac{1}{2}$	15	Heave
30V300	300	30	144	4000	5 $\frac{3}{4}$ x 6 $\frac{3}{4}$ x 5 $\frac{1}{2}$	4 $\frac{7}{8}$ x 5 $\frac{7}{8}$	24	Heavy
20V500	500	17	87	4000	5 $\frac{3}{4}$ x 6 $\frac{3}{4}$ x 8 $\frac{1}{2}$	4 $\frac{7}{8}$ x 5 $\frac{7}{8}$	40	Hedge
20V750	750	18	50	5000	7 x 8 $\frac{1}{4}$ x 7 $\frac{1}{2}$	6 $\frac{1}{8}$ x 7 $\frac{3}{8}$	59	Hedgi

HIGH VOLTAGE INPUT OR SWINGING CHOKES

Type	Average D.C. MA.	Henrys Rated MA.	Henrys at 0 MA.	Res. Ohms	Max. Optg. Peak Volts	Case Dimensions	Mounting Dimensions	Wt. Lbs.	Code
12S200	200	4.6	21.4	82	5000	3 $\frac{11}{16}$ x 4 $\frac{5}{16}$ x 4 H	3 x 3 $\frac{5}{8}$	7 $\frac{3}{4}$	Hedix
12S300	300	4.15	23.4	63	5000	4 $\frac{5}{16}$ x 5 $\frac{3}{16}$ x 4 $\frac{1}{2}$	3 $\frac{5}{8}$ x 4 $\frac{1}{2}$	13 $\frac{1}{2}$	Hediz
12S500	500	3.4	27.0	54	5000	5 $\frac{3}{4}$ x 6 $\frac{3}{4}$ x 5 $\frac{1}{2}$	4 $\frac{7}{8}$ x 5 $\frac{7}{8}$	24	Hedos
12S750	750	3.5	24.0	29	6000	5 $\frac{3}{4}$ x 6 $\frac{3}{4}$ x 8 $\frac{1}{2}$	4 $\frac{7}{8}$ x 5 $\frac{7}{8}$	35	Hedov
12S1000	1000	3.3	21.0	26	6000	7 x 8 $\frac{1}{4}$ x 7 $\frac{1}{2}$	6 $\frac{1}{8}$ x 7 $\frac{3}{8}$	54	Hedra



"T" Mounting

H. V. RECTIFIER FILAMENT TRANSFORMERS

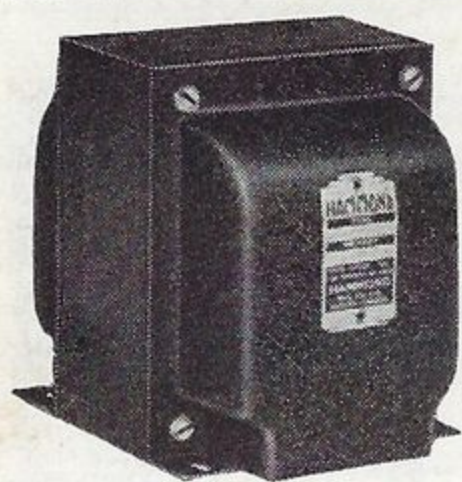
Hammond Rectifier Filament Transformers are the result of years of continual development and are known throughout the country for their accuracy and freedom from breakdown. They will be found ideal for power supplies for all types of equipment, such as Commercial and Amateur Transmitters, Induction Heating Units, etc.

**Special High-Voltage Filament Transformers for Voltages up to 50,000
can be built to order**



"X" Mounting

Type	Primary Taps	Secondary Volts, Amps.	Secondary Ins. Test	Maximum DC Volts	Overall Dimensions	Mounting Centres	Wt. Lbs.	Code
1165T60	100-115	2.5 ct 5	10000	4000	3 $\frac{1}{8}$ x 6 x 4 $\frac{1}{8}$ H	2 $\frac{1}{4}$ x 4 $\frac{1}{4}$	4	Globe
1165X60	100-115	2.5 ct 5	8000	3000	3 $\frac{1}{8}$ x 3 x 3 $\frac{3}{4}$ H	2 $\frac{1}{2}$ x 1 $\frac{5}{8}$	3	Glats
1166T60	100-115	2.5 ct 10	10000	4000	3 $\frac{1}{8}$ x 6 x 4 $\frac{1}{8}$ H	2 $\frac{1}{4}$ x 4 $\frac{1}{4}$	4	Glove
1166X60	100-115	2.5 ct 10	8000	3000	3 $\frac{1}{8}$ x 3 x 3 $\frac{3}{4}$ H	2 $\frac{1}{2}$ x 1 $\frac{5}{8}$	3	Glost
1167T60	100-115	2.5 ct 5 2.5 ct 5 2.5 ct 10	10000	4000	3 $\frac{3}{4}$ x 7 x 5 H	2 $\frac{7}{8}$ x 5 $\frac{1}{2}$	7 $\frac{3}{4}$	Glime
1167X60	100-115	2.5 ct 5 2.5 ct 5 2.5 ct 10	8000	3000	3 $\frac{3}{4}$ x 4 $\frac{1}{4}$ x 4 $\frac{1}{2}$ H	3 x 2 $\frac{1}{2}$	7 $\frac{3}{4}$	Gnaws
1168T60	100-115	2.5 ct 15	10000	4000	3 $\frac{1}{8}$ x 6 $\frac{1}{2}$ x 4 $\frac{1}{8}$ H	2 $\frac{1}{4}$ x 4 $\frac{3}{4}$	4 $\frac{3}{4}$	Goats
1168X60	100-115	2.5 ct 15	8000	3000	3 $\frac{1}{8}$ x 3 $\frac{1}{2}$ x 3 $\frac{3}{4}$ H	2 $\frac{1}{2}$ x 2 $\frac{1}{8}$	4 $\frac{1}{2}$	Gobli
1171T60	100-115	5 ct 7.5	10000	4500	3 $\frac{3}{4}$ x 6 $\frac{5}{8}$ x 5 H	2 $\frac{7}{8}$ x 5	6	Gnash
1171X60	100-115	5 ct 7.5	10000	4000	3 $\frac{3}{4}$ x 3 $\frac{3}{4}$ x 4 $\frac{1}{2}$ H	3 x 2	6	Golit
1172T60	100-115	5 ct 15	10000	4500	3 $\frac{3}{4}$ x 7 $\frac{1}{4}$ x 5 H	2 $\frac{7}{8}$ x 5 $\frac{3}{4}$	9	Going
1172X60	100-115	5 ct 15	10000	4000	3 $\frac{3}{4}$ x 4 $\frac{1}{2}$ x 4 $\frac{1}{2}$ H	3 x 2 $\frac{3}{4}$	9	Gossip
1173T60	100-115	5 ct 22.5	10000	4500	3 $\frac{3}{4}$ x 8 $\frac{1}{4}$ x 5 H	2 $\frac{7}{8}$ x 6 $\frac{3}{8}$	11	Goody
1173X60	100-115	5 ct 22.5	10000	4000	3 $\frac{3}{4}$ x 5 $\frac{1}{8}$ x 4 $\frac{1}{2}$ H	3 x 3 $\frac{3}{8}$	11	Gosly



FILAMENT TRANSFORMERS

"X" MOUNTING

Hammond Filament Transformers are well known for their rugged, compact construction, their accurate voltage output and also the provision for low line voltage. The "X" type is ideal for chassis installations. Two identical sec. on types with *.

Type	Primary Taps	Secondary Volts, Amps.	Secondary Ins. Test	Overall Dimensions	Mounting Centres	Weight	Code
1120X60	115	Dual 2.5 3*	2000	2½ x 2½ x 3 H	2½ x 1¾	2¼	Goric
1122X60	100-115	Dual 2.5 6*	2000	2½ x 3½ x 3H	2½ x 2¼	3	Goule
1123X60	100-115	5 ct 10	2500	3½ x 3½ x 3¾ H	2½ x 2½	5	Grams
1124X60	100-115	5 ct 20	3000	3¾ x 4 x 4½ H	3 x 2¼	7	Gront
1125X60	100-115	Dual 5 ct 13*	3000	3¾ x 4¼ x 4½ H	3 x 2½	8	Gratz
1126X60	100-115	5 ct 15	3000	3½ x 3¾ x 3¾ H	2½ x 2¾	5¾	Graqi
1127X60	100-115	5 ct 30	3000	3¾ x 4½ x 4½ H	3 x 2¾	9½	Grapa
1128X60	100-115	6.3 ct 5	2000	2½ x 3½ x 3 H	2½ x 2¼	3	Grags
1129X60	100-115	6.3 ct 10	3000	3½ x 3¾ x 3¾ H	2½ x 2¾	5½	Graoz
1130X60	100-115	7.5 ct 4	2500	2½ x 3½ x 3 H	2½ x 2¼	3	Gratf
1132X60	100-115	7.5 ct 6.5	2500	3½ x 3½ x 3¾ H	2½ x 2½	5	Grast
1136X60	100-115	5 ct 3, 6.3 ct 5, 6.3 ct 5	2500	3½ x 4 x 3¾ H	2½ x 2½	6¼	Grati
1140X60	100-115	10 ct 4	3000	3½ x 3¼ x 3¾ H	2½ x 1¾	4¼	Greba
1141X60	100-115	10 ct 5	3000	3½ x 3½ x 3¾ H	2½ x 2½	4¾	Grems
1142X60	100-115	10 ct 8	3000	3½ x 4 x 3¾ H	2½ x 2½	6¼	Grims
1143X60	100-115	Dual 10 ct 8*	3000	3¾ x 4½ x 4½ H	2¾ x 2¾	9¾	Groggy
1144X60	100-115	10 ct 10	3000	3½ x 4½ x 3¾ H	2½ x 3½	7½	Greds
1150X60	100-115	11 ct 5	3000	3½ x 3½ x 3¾ H	2½ x 2½	5¼	Groom
1152X60	100-115	11 ct 10	3000	3½ x 4½ x 3¾ H	2½ x 3½	7¾	Groqk
1153X60	100-115	11 ct 15	3000	3¾ x 4¾ x 4½ H	3 x 3	9½	Gross
1155X60	100-115	14 ct 6	3000	3½ x 4 x 3¾ H	2½ x 2½	5½	Grudg

FILAMENT TRANSFORMERS

"R" MOUNTING

The "R" series is identical, electrically, to the "X" types, but has a bakelite terminal board and solder lug terminals. These are ideal for equipment with cabled wiring. Two identical secondaries on types with *.



1120R60	115	Dual 2.5 3*	2000	2½ x 4½ x 3 H	1½ x 3½	2¼	Gorge
1122R60	100-115	Dual 2.5 3*	2000	2½ x 4½ x 3 H	1½ x 4½	3	Gouge
1123R60	100-115	5 ct 10	2500	3½ x 5¼ x 4½ H	2¼ x 4¾	5	Grand
1124R60	100-115	5 ct 20	3000	3¾ x 5¾ x 5 H	2¾ x 5¼	7	Graft
1125R60	100-115	Dual 5 ct 13*	3000	3¾ x 6½ x 5 H	2¾ x 5½	9	Granz
1126R60	100-115	5 ct 15	3000	3½ x 5½ x 4½ H	2¼ x 5	6	Graob
1127R60	100-115	5 ct 30	3000	3¾ x 6½ x 5 H	2¾ x 5¾	10	Grapx
1128R60	100-115	6.3 ct 5	2000	2½ x 4½ x 3 H	1½ x 4½	3	Grape
1129R60	100-115	6.3 ct 10	3000	3½ x 5½ x 4½ H	2¼ x 5	5½	Graox
1130R60	100-115	7.5 ct 4	2500	2½ x 4½ x 3 H	1½ x 4½	3	Grasp
1132R60	100-115	7.5 ct 6.5	2500	3½ x 5¼ x 4½ H	2¼ x 4¾	5	Grate
1136R60	100-115	5 ct 3, 6.3 ct 5, 6.3 ct 5	2500	3½ x 5¾ x 4½ H	2¼ x 5¼	6¼	Grite
1140R60	100-115	10 ct 4	3000	3½ x 5 x 4½ H	2¼ x 4½	4¼	Greek
1141R60	100-115	10 ct 5	3000	3½ x 5¼ x 4½ H	2¼ x 4¾	4¾	Gremo
1142R60	100-115	10 ct 8	3000	3½ x 5¾ x 4½ H	2¼ x 5¼	6¼	Grite
1143R60	100-115	Dual 10 ct 8*	3000	3¾ x 6¾ x 5 H	2¾ x 5¾	9¾	Grief
1144R60	100-115	10 ct 10	3000	3½ x 6¼ x 4½ H	2¼ x 5¾	7½	Gredi
1150R60	100-115	11 ct 5	3000	3½ x 5¼ x 4½ H	2¼ x 4¾	5½	Grime
1152R60	100-115	11 ct 10	3000	3½ x 6¼ x 4½ H	2¼ x 5¾	8	Grimy
1153R60	100-115	11 ct 15	3000	3¾ x 6¾ x 5 H	2¾ x 6	10	Grist
1155R60	100-115	14 ct 6	3000	3½ x 5¾ x 4½ H	2¼ x 5¼	5¾	Groan

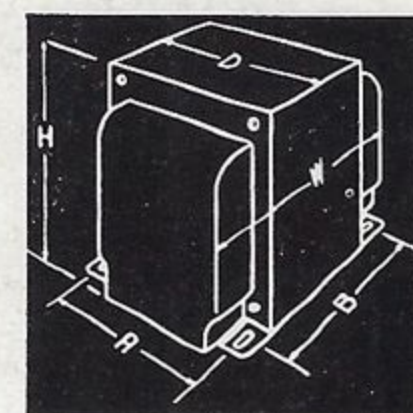
UNIVERSAL FILAMENT TRANSFORMER

Primary is tapped to give 5 volts ct, 6.5 amps, or 6.3 volts ct, 6.5 amps, or 7.5 volts ct, 6.5 amps, from secondary.

1109R60	115	5, 6.3 or 7.5	3000	3½ x 5 x 4½ H	2¼ x 4½	4	Goums
1109X60	115	5, 6.3 or 7.5	3000	3½ x 3¼ x 3¾ H	2½ x 1¾	3¾	Grubb

"X" MOUNTING TYPES

Here is a line of Plate Transformers that will be found ideal for transmitters, amplifiers and electronic equipment. They are housed in drawn steel cases, attractively finished in black wrinkle which matches most other equipment. Accurately wound coils with hi-seal vacuum impregnation assures maximum reliability. Insulated leads 10" long are provided and all ratings are for choke input. Continuous rating. Primaries wound for 115 volts.



Type	Cycle	Sec. Volts	DC Volts	DC MA.	Pri. Va.	A	B	D	H	W	Wt., Lbs.	Code
710	60	375-0-375	300	300	125	3	2¼	3¾	4½	4	7¼	Honey
714	60	510-0-510	400	170	122	3	2½	3¾	4½	4¼	7¾	Honpo
715	60	510-0-510	400	300	160	3	2¾	3¾	4½	4½	9	Hooch
717	60	510-0-510	400	500	300	4- ⁹ / ₁₆	3¾	5	6½	5¼	17¾	Hotel
720	60	625-0-625	500	300	190	3	3¾	3¾	4½	5½	13	Horse
722	60	625-0-625	500	500	375	4- ⁹ / ₁₆	3¾	5	6½	5¼	17¾	Hough
724	60	750-0-750	625	200	200	3	3½	3¾	4½	5¼	12	Houxi
726	60	890-0-890	750	175	205	3	3½	3¾	4½	5¼	13	Horta
728	60	1000-0-1000	850	150	205	3	3½	3¾	4½	5¼	13	Hosea
732	60	1250-0-1250	1000	200	320	4- ⁹ / ₁₆	3½	5	6½	5¼	17¾	Hoxil
733	60	1250-0-1250	1000	300	475	4- ⁹ / ₁₆	4¼	5	6½	6	24	Hoxum



HIGH-VOLTAGE TAPPED PLATE TRANSFORMER

Secondary is in two balanced pies for exact voltage and resistance balance. Each high-voltage winding is tapped at 70% of maximum and with the extended primary, which has three taps, six output voltages are available. All types designed for 115 volt lines. (120 volts max. on terminals 0 and 1.)

Type	Cycles	Max. Volts Per Side	Max. DC Ma.	DC Volts Output after Input Choke	Max. Pri. Amps.	Overall Dim.	Weight	Code
762-60	50/60	880	200	750, 675, 600, 525, 470, 420	2.0	3¾ x 8½ x 4¾	16	Kefil
763-60	50/60	880	300	750, 675, 600, 525, 470, 420	2.8	5 x 8¼ x 6½	22	Kenip
764-60	50/60	1180	200	1000, 900, 800, 700, 630, 560	2.6	5 x 8 x 6½	20	Keovy
766-60	50/60	1180	300	1000, 900, 800, 700, 630, 560	3.2	5 x 9 x 6½	27	Kepus
774-60	50/60	1740	200	1500, 1350, 1200, 1050, 945, 840	3.6	5 x 9 x 6½	27	Kerka
776-60	50/60	1740	300	1500, 1350, 1200, 1050, 945, 840	5.7	5 x 10½ x 6½	38	Kesop
777-60	50/60	1740	500	1500, 1350, 1200, 1050, 945, 840	8.7	6¼ x 11¼ x 8	57	Kejir
779-60	50/60	1740	1000	1500, 1350, 1200, 1050, 945, 840	16	7½ x 12¾ x 9½	87	Kelno
783-60	50/60	2320	300	2000, 1800, 1600, 1400, 1260, 1120	7.7	6¼ x 10½ x 8	48	Kekaj
784-60	50/60	2320	500	2000, 1800, 1600, 1400, 1260, 1120	12.0	7½ x 11¼ x 9½	65	Kegeg
787-60	50/60	2880	300	2500, 2250, 2000, 1750, 1570, 1400	8.0	6¼ x 11¼ x 8	56	Kalia
788-60	50/60	2880	500	2500, 2250, 2000, 1750, 1570, 1400	15.0	7½ x 11¾ x 9½	72	Karla
793-60	50/60	3450	300	3000, 2700, 2400, 2100, 1880, 1680	10.8	7½ x 11 x 9½	61	Kilek
795-60	50/60	3450	500	3000, 2700, 2400, 2100, 1880, 1680	18	7½ x 12¼ x 9½	80	Kolix

UNIVERSAL PLATE TRANSFORMERS

Primary and Secondary tapped to give nine output voltages.



Type 757-60 Wt. 22 lbs. Code Gliso
 1000 volts 250 ma. D.C.
 800 volts 250 ma. D.C.
 750 volts 250 ma. D.C.
 600 volts 250 ma. D.C.
 500 volts 500 ma. D.C.
 450 volts 250 ma. D.C.
 375 volts 500 ma. D.C.
 375 volts 200 ma. and 500 volts 300 ma. D.C.
 225 volts 200 ma. and 375 volts 300 ma. D.C.

Continuous Rating.
Choke Input.

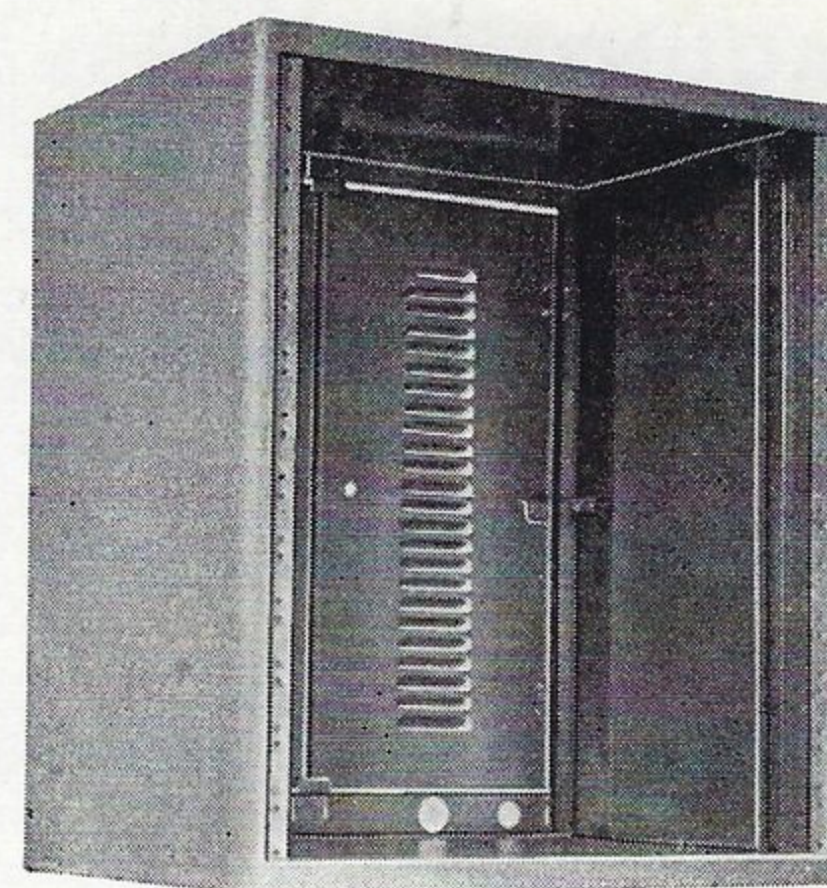
Type 767-60 Wt. 31 lbs. Code Glite
 1500 volts 250 ma. D.C.
 1200 volts 250 ma. D.C.
 1125 volts 250 ma. D.C.
 900 volts 250 ma. D.C.
 750 volts 500 ma. D.C.
 675 volts 250 ma. D.C.
 490 volts 500 ma. D.C.
 490 volts 200 ma. and 750 volts 300 ma. D.C.
 575 volts 200 ma. and 375 volts 300 ma. D.C.

Continuous Rating.
Choke Input.

1460 SERIES DESK-TYPE CABINET RACK

A modern, rugged, all-welded cabinet, ideal for public address systems, transmitters' test equipment, etc. Beautifully designed — hinged lid for accessibility — rounded front corners. Panels fitted into a recess. Removable connection panel for BX or cables — hinged rear door on all but B, C, D — chassis support brackets supplied. Overall width 21¼" — depth, front to back, 16¼". Standard finish: Gray Hammerlin or Black Wrinkle.

Black Wrinkle	Gray Hammerlin	Panel Space	Overall Height	Ship Wgt.	Code
1460B-B	1460B-G	8¾"	10¾"	16 lbs.	Lilab
1460C-B	1460C-G	10½"	12½"	18 lbs.	Lilam
1460D-B	1460D-G	14"	16"	25 lbs.	Lilaf
1460F-B	1460F-G	22¾"	24¾"	42 lbs.	Lilac
1460H-B	1460H-G	28"	30"	47 lbs.	Lilax
1460J-B	1460J-G	33¼"	35¼"	52 lbs.	Lilay
1460K-B	1460K-G	40¼"	42¼"	58 lbs.	Lilbc
1460M-B	1460M-G	47¼"	49¼"	67 lbs.	Lilcd
1460P-B	1460P-G	54¼"	56¼"	75 lbs.	Lildh



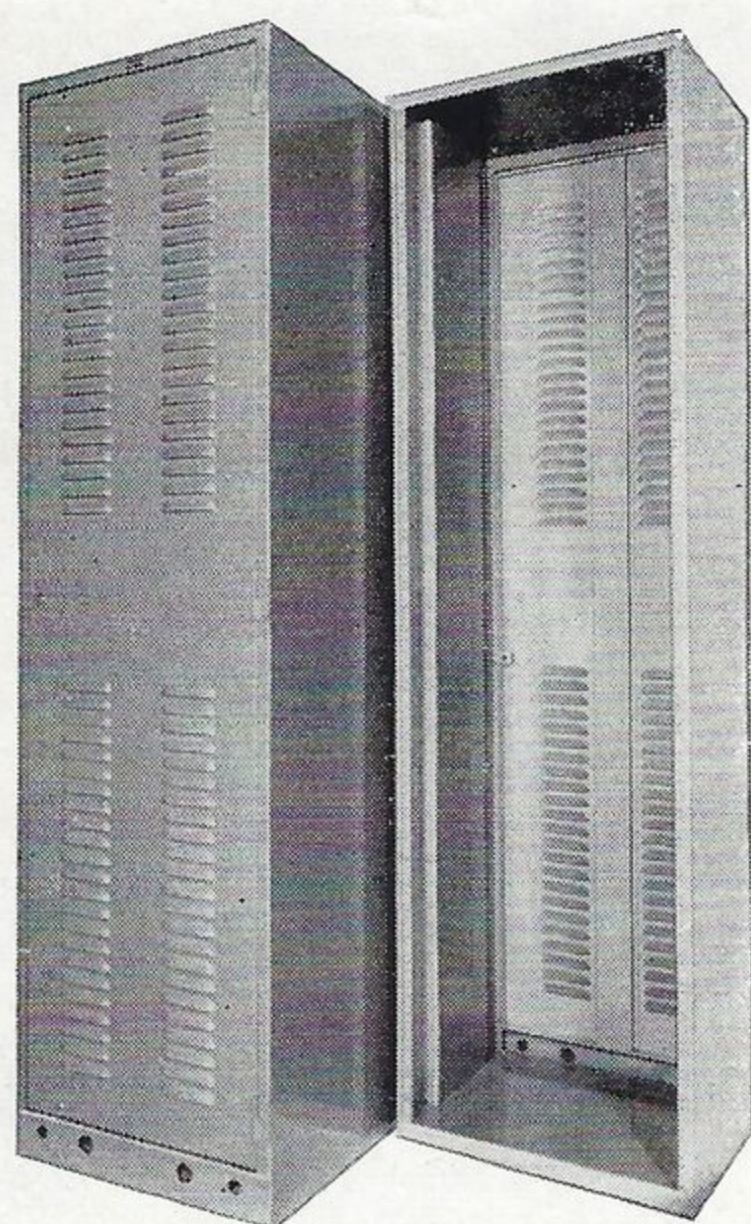
FLOOR TYPE CABINET RACKS

1462 SERIES

Heavy-duty, all-welded steel cabinets for commercial and industrial uses. Panels fitted into a recess. Panel holes, on standard 1¼" — ½" spacing are tapped for 10-32 screws. Single louvred door on rear. Panel for cable connections. Integral walls for cable ways and chassis support brackets — brackets and screws provided. Rectangular opening in bottom. Dimensions — 20" wide, 16" deep. Standard finishes — Gray Hammerlin or Black Wrinkle.

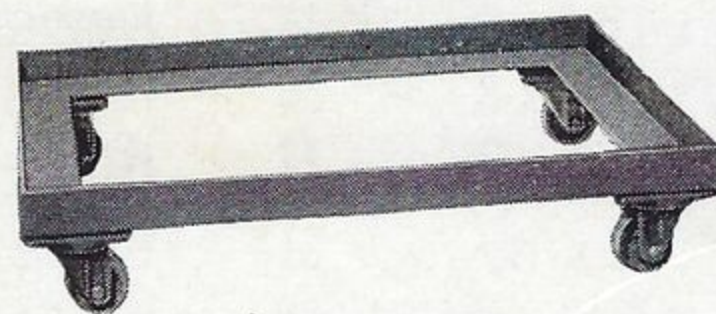
1463 SERIES

This streamlined cabinet rack combines the same rugged all-welded construction of our 1462 series with modern styling — rounded vertical edges, trim strip to cover panel mounting screws, chrome trim at the top. Makes a deluxe job of any amateur or broadcast transmitter or Hi-power installation. Rear door is hung on slip-pin hinges and provided with a keyed lock. Dimensions — 22½" wide, 17½" deep. Standard finish—Gray Hammerlin or Black Wrinkle. (Other finishes at slight extra cost.)



Panel Space	1462				1463				Shipping Weight
	Black Wrinkle	Gray Hammerlin	Overall Hgt.	Code	Black Wrinkle	Gray Hammerlin	Overall Hgt.	Code	
61¼"	1462B-B	1462B-G	64"	Limbo	1463B-B	1463B-G	64¾"	Limta	135 lbs.
70"	1462C-B	1462C-G	72¾"	Limga	1463C-B	1463C-G	73½"	Limub	150 lbs.
80½"	1462E-B	1462E-G	83½"	Limso	1463E-B	1463E-G	84"	Limve	165 lbs.

DOLLIES



Especially designed for use on our 1460-2-3 series of cabinets. Rigidly constructed of ½" steel. Castors are ball-bearing swivel type with 2" hard rubber wheels. Standard finish — Black Wrinkle or Gray Hammerlin.

Black Wrinkle	Gray Hammerlin	Will Fit Cabinet Series	Inside Clearance	Shipping Weight	Code
1424B-B	1424B-G	1460-2	21¼ x 16¼	15 lbs.	Lrbat
1424F-B	1424F-G	1463	23¼ x 17	16 lbs.	Lrbog



CASTORS

Suitable for attachment to the underside of our cabinet racks. Ball-bearing swivel type, with 2" hard rubber wheels. Overall height — 2½".

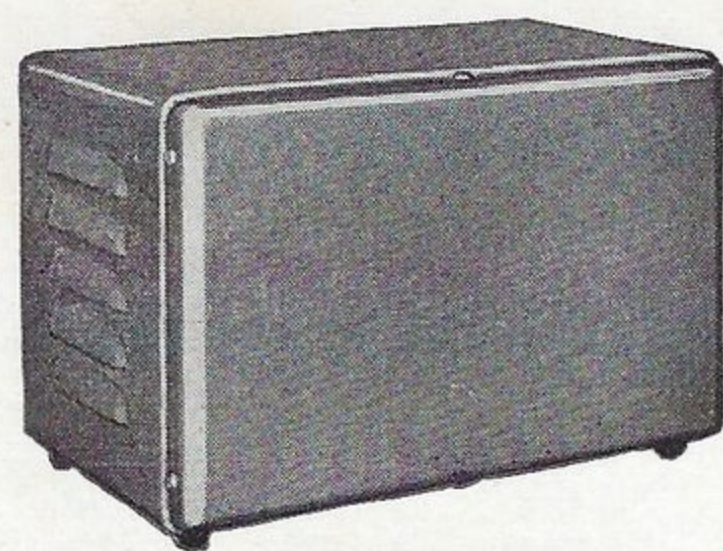
Supplied in sets of 4 with screws, nuts, and washers.

Type	Shipping Weight	Code
1425	3 lbs.	Lkape

CONSOLES — EQUIPMENT TABLES — TURRETS

A complete line of single, double and triple pedestal units for use in industry, broadcasting, communications, schools, etc., is available. Made of heavy gauge steel and beautifully finished in Gray Hammerlin. Top is covered with linoleum and trimmed with metal moulding. For detailed description, please send for bulletins.

Consoles..... Bulletin 5034 Equipment Tables..... Bulletin 5035 Turrets..... Bulletin 5036

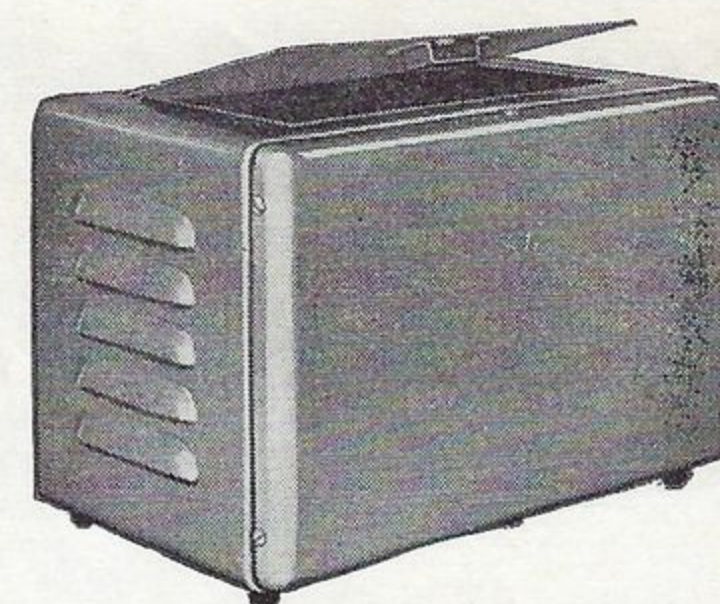


"1402"

MULTI-USE METAL CABINETS

1402 and 1403 SERIES

All-purpose cabinets of modern appearance with smooth rounded corners. Removable front panel, rubber feet and ventilating louvres on the ends and back. Openings provided in rear for leads, etc. 1403 series provided with hinged lid. Standard Finish — Gray Hammerlin.

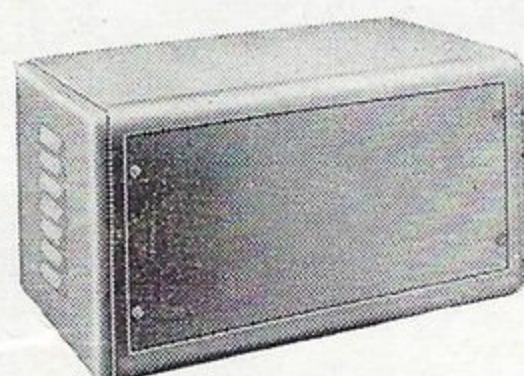


"1403"

Type	Code	Type	Code	Dimensions	Shipping Weight	For Chassis
1402-B	Luiba	1403-C	Leebe	4 $\frac{3}{8}$ x 9 $\frac{1}{8}$ x 6 $\frac{3}{8}$	4 lbs.	1440-10
1402-C	Luibe	1403-D	Leebs	5 $\frac{3}{8}$ x 10 $\frac{1}{8}$ x 7 $\frac{3}{8}$	5 $\frac{1}{2}$ lbs.	1440-14
1402-D	Luibs			6 $\frac{3}{8}$ x 11 $\frac{1}{8}$ x 7 $\frac{3}{8}$	7 lbs.	1440-16
1402-E	Luefa	1403-E	Leefr	8 $\frac{3}{8}$ x 13 $\frac{1}{8}$ x 8 $\frac{3}{8}$	10 lbs.	1440-22, 24
1402-G	Lulof	1403-G	Lelof	8 $\frac{3}{8}$ x 17 $\frac{1}{8}$ x 8 $\frac{3}{8}$	12 lbs.	1440-26, 28
1402-H	Lulta	1403-H	Lelta	10 $\frac{3}{8}$ x 18 $\frac{1}{8}$ x 8 $\frac{3}{8}$	16 lbs.	1440-30, 32
1402-I	Lufts	1403-I	Leftn	12 $\frac{3}{8}$ x 18 $\frac{1}{8}$ x 8 $\frac{3}{8}$	18 lbs.	1440-34, 36
1402-J	Lufor	1403-J	Lefor	14 $\frac{3}{8}$ x 18 $\frac{1}{8}$ x 10 $\frac{3}{8}$	22 lbs.	1440-38, 40

EQUIPMENT CABINETS

1405 SERIES



Length 22 $\frac{1}{8}$ " Depth 11 $\frac{1}{4}$ "
Recommended Chassis Size
10 x 17

This new line of cabinets, designed to take standard 19" panels front and rear, is of pleasing, modern appearance, with fully rounded corners. Louvres at both sides assure ample cooling. Rubber feet are provided.

Standard finish — Gray Hammerlin.

Gray Hammerlin	Height	For Panel Size	Shipping Weight	Code
1405-H	13 $\frac{1}{4}$ "	10 $\frac{1}{2}$ "	14	Lfebl
1405-J	15"	12 $\frac{1}{4}$ "	15	Lfebn
1405-L	16 $\frac{3}{4}$ "	14"	16	Lfebp

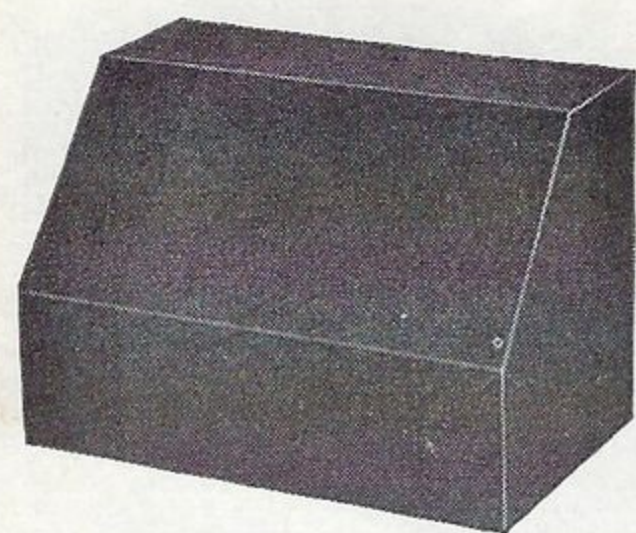
UNIVERSAL CABINET PARTS



11" Front to Back
For Standard 19" Panels
10 x 17 Chassis Recommended

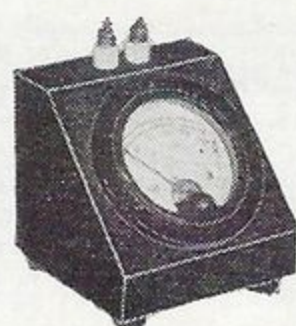
These Universal Cabinet Sections are 11" front to back, have rounded corners and make low cost construction of cabinets for electronic equipment available. It is now possible to add to your equipment by simply adding these new cabinet ends. Standard Finish — Black Wrinkle or Gray Hammerlin.

Black Wrinkle	Gray Hammerlin	Description	Height	Shipping Weight	Code
1490-B	1490-G	(Bottom Plate or Intersection Shield)		4	Lfaba
1492-B	1492-G	Hinged Top Assembly		6	Lfaff
1493-B	1493-G	Cabinet End	5 $\frac{1}{4}$ "	3	Lfagh
1494-B	1494-G	Cabinet End	7"	3 $\frac{1}{2}$	Lfajk
1495-B	1495-G	Cabinet End	8 $\frac{3}{4}$ "	4 $\frac{1}{2}$	Lfalm
1496-B	1496-G	Cabinet End	10 $\frac{1}{2}$ "	5	Lfano
1497-B	1497-G	Cabinet End	12 $\frac{1}{4}$ "	6	Lfapg
1498-B	1498-G	Cabinet End	14"	6 $\frac{1}{2}$	Lfars

**SLOPING-FRONT CABINETS**

May be rapidly adapted as instrument cases or for other equipment, for use in laboratories and commercial units. Front is removable and an opening in back for chassis connections. Standard Finish — Gray Hammerlin.

Type	Dimensions	For Chassis	Shipping Weight	Code
1404B	5½ x 10 x 6¼	1440-14	3 lbs.	Lefot
1404D	6½ x 11 x 7¼	1440-16	3 lbs.	Lefil
1404F	8½ x 13 x 9¼	1440-22	4 lbs.	Lefim
1404H	8½ x 17 x 9¼	1440-28	6½ lbs.	Lefjb

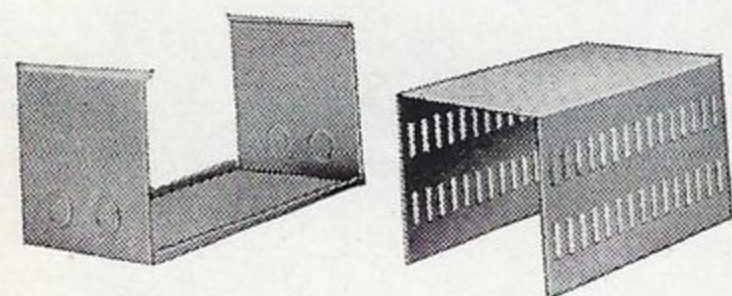
**METER CASES**

Back and Bottom removable for ease of installation. Standard finish — Black Wrinkle.

Type	Dimensions	Meter Size	Weight, Lbs.	Code
1412B	4 x 3¾ x 3¾	3"	1¼	Lfdet
1412D	5½ x 5½ x 5½	4"	2	Lfdex

1416 SERIES COMPONENT CASES

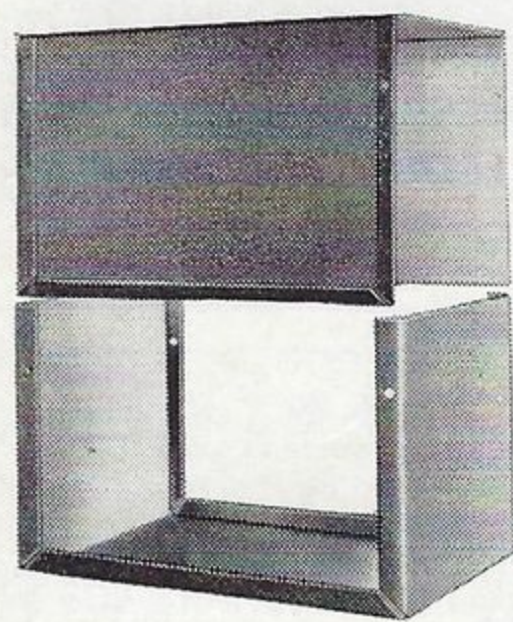
An enclosure designed especially for electrical or electronic apparatus. Combining rigid construction of fabricated steel, with ample ventilation. Knock-outs for electrical connections provided. Accessibility for easy wiring. Standard finish: Gray baked enamel.



Type	Depth	Width	Height	Ship. Weight	Code
1416D	4	6	3½	2	Lcvdf
1416F	4	10	3½	3	Lcvfk
1416J	4	10	5½	4	Lcvjd
1416L	6	10	5½	5	Lcvlf
1416N	10	15	7½	7	Lcvnk
1416P	10	20	7½	9	Lcvpg
1416R	10	20	9½	10	Lcvrj

1411 SERIES "HANDY" CASES

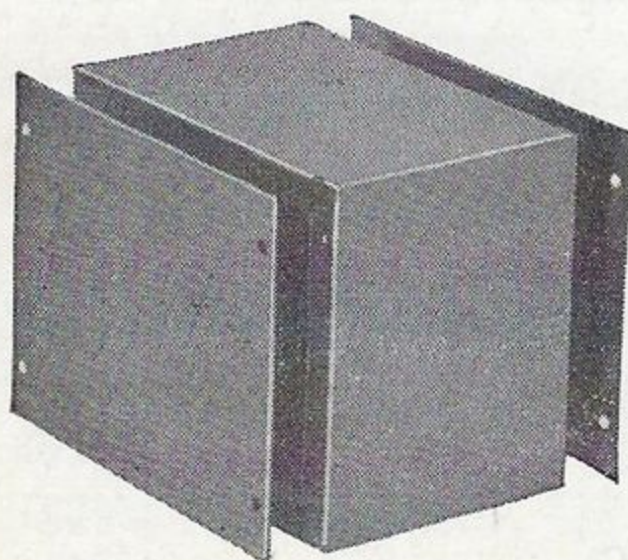
Made of 18 gauge aluminum, the design of this case permits the installation of more components than is possible with the more conventionally designed box of the same size. Standard finish — Gray Hammerlin.



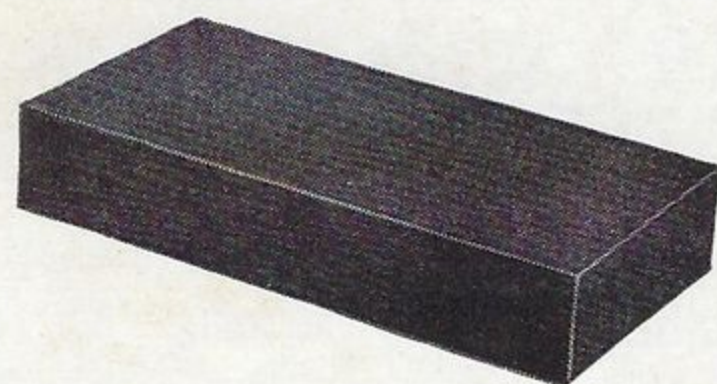
Type	Lgth	Wdth	Hght	Ship. Weight	Code	Type	Lgth	Wdth	Hght	Ship. Weight	Code
1411 B	2¾	2½	1½	¼ lb.	Lchas	1411 N	5¼	3	2½	¼ lb.	Lchbk
1411 C	3¼	2½	1½	¼ lb.	Lchae	1411 P	6	5	4	¾ lb.	Lchdm
1411 D	3¼	2½	1½	¼ lb.	Lchan	1411 Q	7	5	3	¾ lb.	Lchdp
1411 F	4	2	2¾	¼ lb.	Lchab	1411 R	8	6	3½	1 lb.	Lchet
1411 G	4	2½	1½	¼ lb.	Lchad	1411 T	10	2	1½	½ lb.	Lchay
1411 H	4	2¼	2¼	¼ lb.	Lchac	1411 U	10	6	3½	1¼ lbs.	Lcheu
1411 J	4¼	2¼	1½	¼ lb.	Lchaf	1411 W	12	2½	2¼	¾ lb.	Lchaj
1411 K	5	2¼	2¼	¼ lb.	Lchah	1411 X	12	7	4	1¾ lbs.	Lchfw
1411 L	5	4	3	½ lb.	Lchcl	1411 Z	17	5	4	2¼ lbs.	Lchdr

UTILITY CASES

Designed for portable equipment, oscilloscopes, transceivers, T.V. boosters, test equipment, etc. Spot-welded construction, with front and back removable. Standard finish — Black Wrinkle or Gray Hammerlin.



Black Wrinkle	Gray Hammerlin	Depth	Width	Height	Ship. Weight	Code
1415A-B	1415A-G	2	4	4	1	Lucbd
1415B-B	1415B-G	3	5	4	2	Luced
1415C-B	1415C-G	4	5	6	2½	Lucef
1415D-B	1415D-G	6	6	6	3	Lucfa
1415E-B	1415E-G	5	6	9	3½	Lucfj
1415F-B	1415F-G	7	8	10	5	Luchk
1415G-B	1415G-G	6	7	12	5	Lucgm
1415H-B	1415H-G	8	10	10	7	Lucrp
1415I-B	1415I-G	8	11	12	8.	Lucml
1415J-B	1415J-G	7	9	15	9	Lucjq



STEEL CHASSIS and BOTTOM PLATES

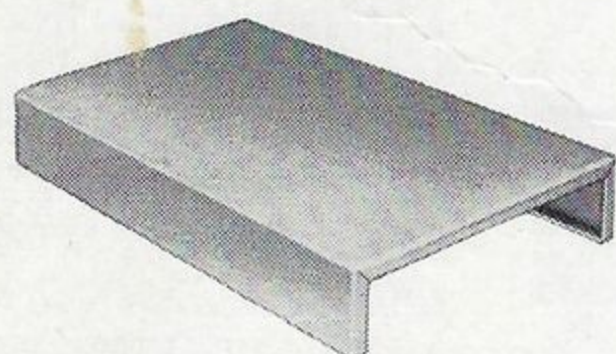
Substantially constructed for heavy-duty uses, with all corners reinforced and spotwelded. The bottom edges are flanged in on four sides for additional strength. Standard finishes — Black Wrinkle, Gray Hammerlin, Bright Zinc.



STEEL CHASSIS									BOTTOM PLATES					
Black W.	Gray H.	Bright Zinc	W	L	H	Gauge	Wt. Lbs.	Code	Black W.	Gray H.	Br. Zinc	Size	Wt. Lbs.	Code
1440-10	1441-10	1442-10	4	8	2	22	1	Lscdh	1430-10	1431-10	1432-10	4 x 8	1/2	Lbpdh
1440-12	1441-12	1442-12	5	7	2	22	1 1/4	Lsceg	1430-12	1431-12	1432-12	5 x 7	1/2	Lbpeg
1440-14	1441-14	1442-14	5	9	2	22	1 1/2	Lscej	1430-14	1431-14	1432-14	5 x 9	1/2	Lbpej
1440-16	1441-16	1442-16	6	10	2	20	1 3/4	Lscfk	1430-16	1431-16	1432-16	6 x 10	3/4	Lbpfk
1440-18	1441-18	1442-18	5	13 1/2	2	20	1 3/4	Lscen	1430-18	1431-18	1432-18	5 x 13 1/2	3/4	Lbpen
1440-20	1441-20	1442-20	4	17	3	20	2 1/2	Lscds	1430-20	1431-20	1432-20	4 x 17	3/4	Lbpsds
1440-22	1441-22	1442-22	8	12	2	20	2 1/2	Lschm	1430-22	1431-22	1432-22	8 x 12	1	Lbphm
1440-24	1441-24	1442-24	8	12	3	20	3	Lscmc						
1440-26	1441-26	1442-26	8	16	2	20	3 1/4	Lschr	1430-26	1431-26	1432-26	8 x 16	1 1/2	Lbp hr
1440-28	1441-28	1442-28	8	16	3	20	3 1/2	Lscrc						
1440-30	1441-30	1442-30	10	17	2	20	3	Lscks	1430-30	1431-30	1432-30	10 x 17	1	Lbpks
1440-32	1441-32	1442-32	10	17	3	20	4	Lscsc						
1440-34	1441-34	1442-34	12	17	2	18	4 1/2	Lscms	1430-34	1431-34	1432-34	12 x 17	2	Lbpms
1440-36	1441-36	1442-36	12	17	3	18	5	Lscvm						
1440-38	1441-38	1442-38	14	17	3	18	6	Lscpm	1430-38	1431-38	1432-38	14 x 17	2 1/2	Lbpme
1440-40	1441-40	1442-40	14	17	4	18	7	Lscpd						
1440-42	1441-42	1442-42	14	17	5	16	7 1/2	Lscme						

OPEN END ALUMINUM CHASSIS

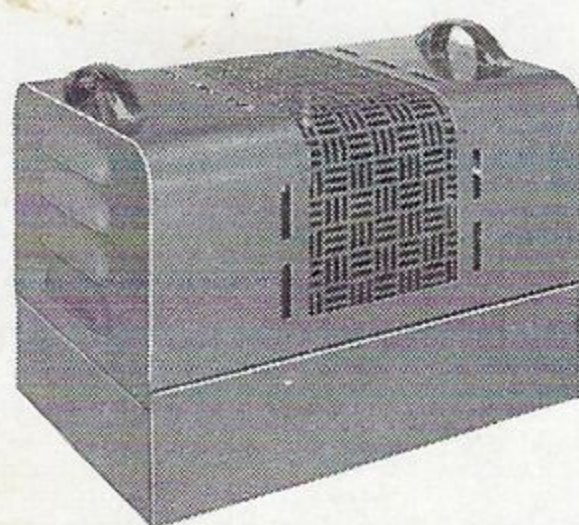
Made of half-hard aluminum, with ends folded over for additional strength. Self-finish.



Type	Width	Length	Height	Shipping Weight	Code
1419-D	5	7	2	1	Laceg
1419-F	5	13 1/2	2	1 1/2	Lacen
1419-H	8	12	2	2	Lachm
1419-J	8	16	3	2 1/2	Lachr

VENTILATED CHASSIS COVERS

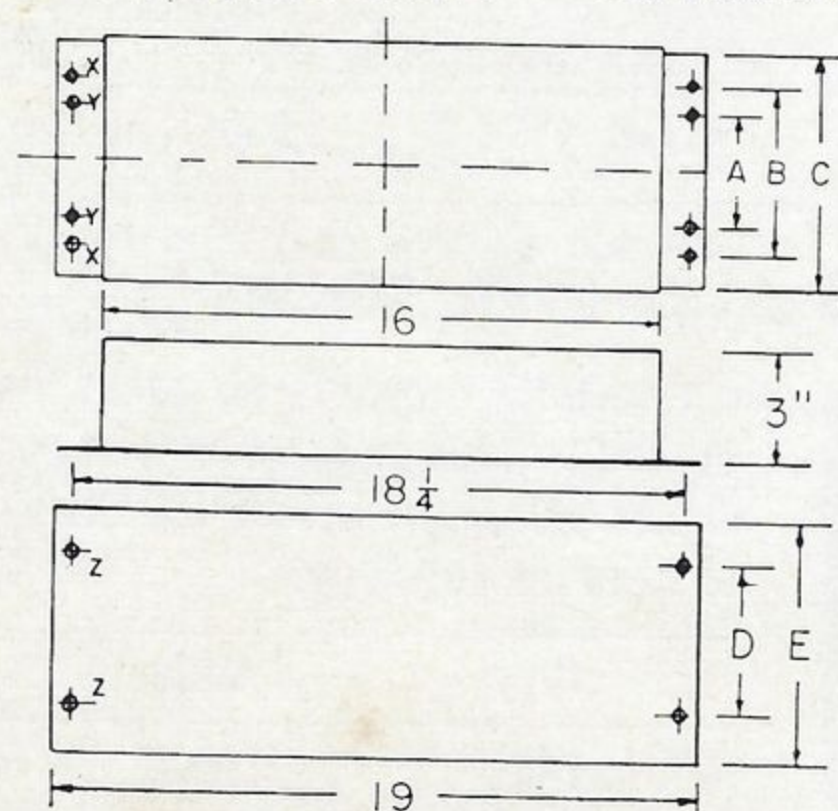
These attractive chassis covers give you modern appearance with ample ventilation and protection. Rigidly constructed. Standard finishes — Black Wrinkle and Gray Hammerlin. (Handles supplied as an extra; see page 19.)



Black Wrinkle	Gray Hammerlin	Dimensions	For Chassis Size	Shipping Weight	Code
1450-10	1451-10	4 x 8 x 5 1/4	10	2	Lvcdh
1450-14	1451-14	5 x 9 x 5 1/4	14	2 1/2	Lvcej
1450-16	1451-16	6 x 10 x 5 1/4	16	3	Lvcfk
1450-22	1451-22	8 x 12 x 5 1/4	22-24	3 1/2	Lvchm
1450-26	1451-26	8 x 16 x 5 1/4	26-28	5	Lvchr
1450-30	1451-30	10 x 17 x 5 1/4	30-32	5	Lvcks
1450-34	1451-34	12 x 17 x 5 1/4	34-36	5 1/2	Lvcms
1450-38	1451-38	14 x 17 x 5 1/4	38-40-42	6 1/2	Lvcps
1450-40	1451-40	14 x 17 x 7	38-40-42	7	Lvcsg

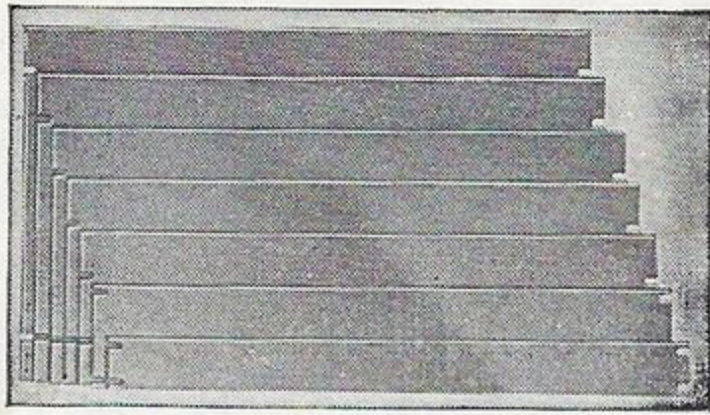
DEPRESSED CHASSIS PANELS

Ideal for constructing panel units. Made from 1/16" steel and consisting of chassis unit and panel. Standard finishes — Black Wrinkle and Gray Hammerlin.



Black Wrinkle	Gray Hammerlin	A	B	C	D	E	Ship Weight	Code
4-350D	5-350D	*	*	3 3/16	*	3 15/32	5	Ldpbc
4-525D	5-525D	1 1/4	2 1/4	4 15/16	2 1/4	5 7/32	6 1/2	Ldpde
4-700D	5-700D	3	4	6 11/16	4	6 31/32	8	Ldpfg
4-875D	5-875D	4 3/4	5 3/4	8 7/16	5 3/4	8 23/32	9	Ldphj
4-1050D	5-1050D	6 1/4	7 1/2	10 3/16	7 1/2	10 15/32	11	Ldpkl
4-1225D	5-1225D	8 1/4	9 1/4	11 15/16	9 1/4	12 7/32	13	Ldplm
4-1400D	5-1400D	10	11	13 11/16	11	13 31/32	14	Ldpnp

*Only one "X" and one "Y" hole each end.
 "X" holes 7/16" dia. "Y" holes 7/32" dia. and c/sk. "Z" holes 1/4" dia.
 Tolerances — A, B, D, E = 1/64" C = 1/32"

**CABINET and RACK PANELS, 19" Wide**

For Standard 1 1/4" x 1/2" Spacing

Available in 13 standard sizes in either 14 gauge Stress Relieved Steel, or 1/8" Aluminum Alloy.
All panels are slotted for rack and cabinet equipment with multiple 1 1/4" x 1/2" spacing.
Standard finishes — Black Wrinkle or Gray Hammerlin.

STEEL PANELS

Panel Height	Black Wrinkle	Gray Hammerlin	Shipping Weight	Code
1 3/4	4-175	5-175	1	Lspag
3 1/2	4-350	5-350	1 1/2	Lspce
5 1/4	4-525	5-525	2 1/4	Lspeb
7	4-700	5-700	2 3/4	Lspgy
8 3/4	4-875	5-875	3 3/4	Lsphg
10 1/2	4-1050	5-1050	4 1/4	Lspke
12 1/4	4-1225	5-1225	5	Lspmb
14	4-1400	5-1400	5 3/4	Lspyp
15 3/4	4-1575	5-1575	6 1/2	Lspqg
17 1/2	4-1750	5-1750	7 1/4	Lspse
19 1/4	4-1925	5-1925	8	Lsub
21	4-2100	5-2100	8 3/4	Lspwy
22 3/4	4-2275	5-2275	9 1/2	Lspgx

ALUMINUM ALLOY PANELS

Black Wrinkle	Gray Hammerlin	Shipping Weight	Code
6-175	7-175	1/2	Lapac
6-350	7-350	1	Lapce
6-525	7-525	1 1/2	Lapeb
6-700	7-700	1 3/4	Lapgy
6-875	7-875	2 1/4	Laphg
6-1050	7-1050	2 3/4	Lapke
6-1225	7-1225	3	Lapmb
6-1400	7-1400	3 1/2	Lapyp
6-1575	7-1575	4	Lapqg
6-1750	7-1750	4 1/2	Lapse
6-1925	7-1925	5	Lapub
6-2100	7-2100	5 1/4	Lapwy
6-2275	7-2275	5 1/2	Lapxg

**UTILITY ALUMINUM PANELS**

Made from 1/16" aluminum for use other than relay racks — not punched. Unfinished.

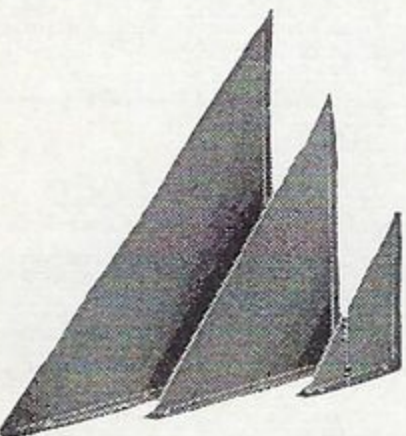
Type	Height	Length	Ship Wgt.	Code
8-690	6"	9"	1/2	Lupfj
8-710	7"	10"	1/2	Lupgk
8-812	8"	12"	3/4	Luphm
8-1017	10"	17"	1 1/4	Lupks

GRILLE VENTILATING PANELS

A distinctive unit for ventilating equipment. Consisting of chrome-plated bars on front and an aluminum baffle in the rear.

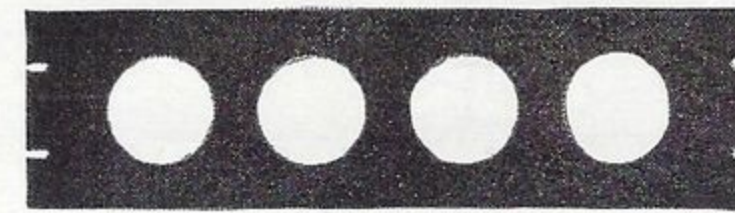
Bottom surface of baffle is bright aluminum for reflecting heat and top surface is dull black for absorbing. Made for 19" racks and cabinets.

Type	Width	Ship Weight	Code
9-175	1 3/4"	2 1/2	Lecfp
9-350	3 1/2"	4	Lelgr

**TRIANGULAR BRACKETS**

For support and reinforcing purposes. Holes punched to standard rack mounting centres.

Black Wrinkle	Gray Hammerlin	Dimensions	Wgt. Ga.	Lbs.	Code
1423B-B (pr.)	1423B-G (pr.)	5 1/4 x 4	20	1/2	Ligof
1423D-B (pr.)	1423D-G (pr.)	9 1/2 x 7 1/2	20	1	Ligol
1423F-B (pr.)	1423F-G (pr.)	12 x 10	18	1 1/2	Ligom

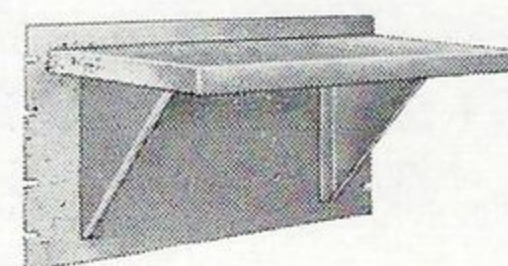
METER PANELS

Made from 14 ga. Stress Relieved Steel. Notched for standard racks and cabinets. Size 19" x 5 1/4" high. Punched for 2" and 3" meters. Standard finishes — Black Wrinkle and Gray Hammerlin.

Black Wrinkle	Gray Hammerlin	Number of Meters	Hole Size	Ship Wgt.	Code
4-525G	5-525G	Four 2" meters	2 1/8"	2	Lmpab
4-525H	5-525H	Five 2" meters	2 1/8"	2	Lmpac
4-525K	5-525K	Three 3" meters	2 13/16"	2	Lmpaf
4-525M	5-525M	Four 3" meters	2 13/16"	2	Lmpag

RACK MOUNTING DESK TOPS

Ideal where a work area in connection with cabinets or racks is required. Designed to carry 200 lbs.



PANEL — 10 1/2" high x 19" wide.
DESK TOP — 17" wide x 12" deep.

Black Wrinkle	Gray Hammerlin	Shipping Wgt.	Code
1417-B	1417-G	13 lbs.	Ldtab

CUP WASHERS and OVAL HEAD SCREWS

For mounting panels on racks or cabinets. Made of brass and bright nickel plated. A set of four supplied in an envelope.

Type	Code
1421	Limuf

1465 SERIES RELAY RACKS



DESK TYPE

These low-priced racks are ideal for small transmitters, test equipment, public address installations, or any units mounted on standard panels. All welded construction. Drilled and tapped for standard panels.

Standard Finishes — Black Wrinkle or Gray Hammerlin.

Black Wrinkle	Gray Hammerlin	Panel Space	Over-all Height	Shipping Weight	Code
1465B-B	1465B-G	21"	23"	13 lbs.	Lltbs
1465C-B	1465C-G	28"	30"	17 lbs.	Llter
1465E-B	1465E-G	35"	37"	23 lbs.	Lltfx
1465G-B	1465G-G	42"	44"	30 lbs.	Lltthe

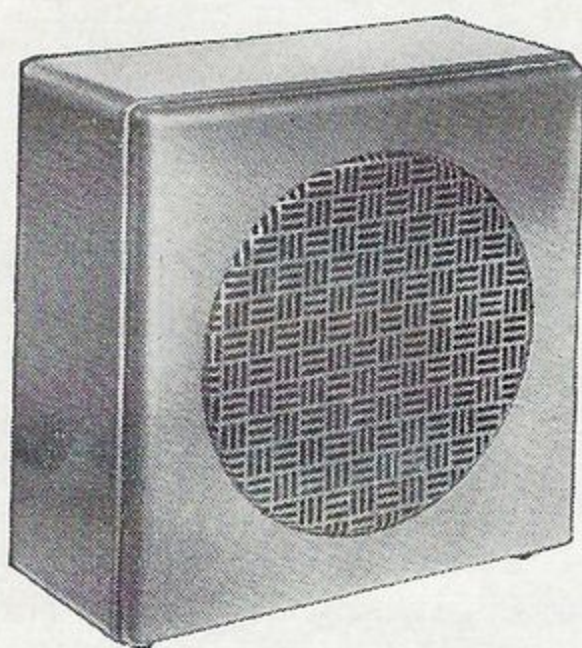
1466 SERIES STANDARD RELAY RACKS FLOOR TYPE



This Relay Rack is ideal for test equipment, transmitters, sound equipment and laboratory work. Rigidly arc-welded for permanent alignment, jig-drilled and tapped 10-32 for standard panels. (See page 18 for panels.) Standard finish Black Wrinkle or Gray Hammerlin. Over-all width, 20 $\frac{7}{16}$ ".

Black Wrinkle	Gray Hammerlin	Panel Space	Overall Height
1466D-B	1466D-G	53"	69 $\frac{1}{8}$ "
1466F-B	1466F-G	70"	76 $\frac{1}{8}$ "
1466H-B	1466H-G	77"	83 $\frac{1}{8}$ "

Black Wrinkle	Gray Hammerlin	Ship Wgt.	Code
1466D-B	1466D-G	100 lbs.	Liter
1466F-B	1466F-G	105 lbs.	Litix
1466H-B	1466H-G	110 lbs.	Lithe

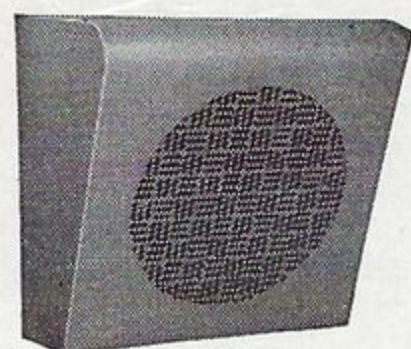


SPEAKER CABINETS

A series of modern, streamlined Speaker Cabinets, ideal for sound installations, etc. They are made of 20 gauge steel, sound-proofed, have all corners rounded and are equipped with rubber feet. Standard Finish — Grey Hammerlin.

Type	Dimensions	Speaker Size	Shipping Wgt.	Code
1406-C	6 $\frac{3}{8}$ x 6 $\frac{3}{8}$ x 3 $\frac{3}{8}$	4"	1 $\frac{1}{2}$	Lfbre
1406-D	7 $\frac{7}{8}$ x 7 $\frac{7}{8}$ x 3 $\frac{7}{8}$	5"	2 $\frac{1}{4}$	Lfbstd
1406-E	8 $\frac{3}{8}$ x 8 $\frac{3}{8}$ x 4 $\frac{3}{8}$	6"	2 $\frac{3}{4}$	Lfbtf
1406-F	10 $\frac{3}{8}$ x 10 $\frac{3}{8}$ x 5 $\frac{3}{8}$	8"	4	Lfbug
1406-G	12 $\frac{3}{8}$ x 12 $\frac{3}{8}$ x 6 $\frac{3}{8}$	10"	6	Lfbuh
1406-H	14 $\frac{3}{8}$ x 14 $\frac{3}{8}$ x 8 $\frac{3}{8}$	12"	8	Lfbwi

SLOPING FRONT SPEAKER CABINET

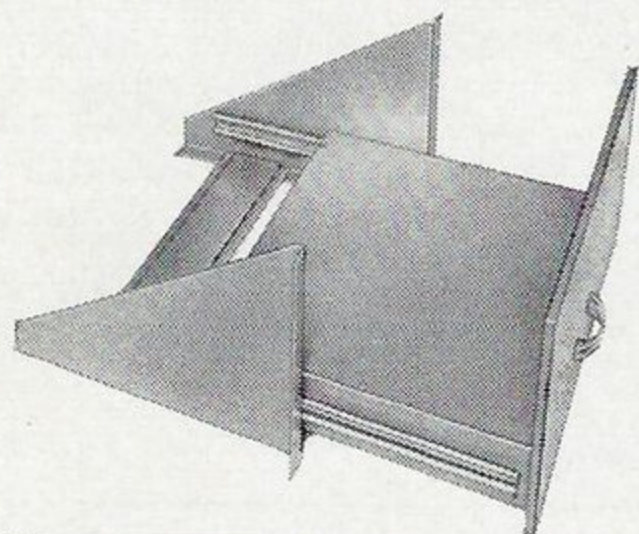


For wall mounting. Ideal for paging systems and sound installations.

Standard Finish — Gray Hammerlin.

Type	Dimensions	Speaker	Wt. Lbs.	Code
1407E	8 x 8 x 7	6"	2 $\frac{1}{4}$	Lfcre
1407F	10 x 10 x 8	8"	3 $\frac{1}{2}$	Lfcsd
1407G	12 x 12 x 9	10"	5	Lfctf
1407H	14 x 14 x 11	12"	7 $\frac{1}{2}$	Lfcug

TURNTABLE DRAWER FOR RACKS AND CABINETS



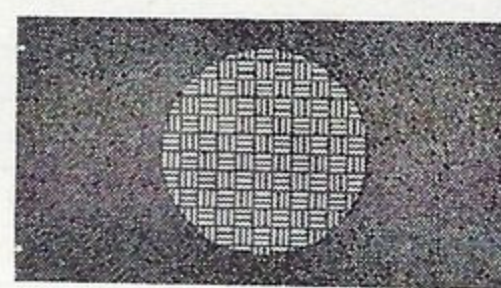
Designed for use where a turntable is required on a rack or cabinet. Smooth operation. A removable unpunched steel plate and plywood mounting board are supplied for mounting the turntable and controls. Complete with handle.

Black Wrinkle	Gray Hammerlin	Depth	Width	Height	Ship Wgt.	Code
1409B	1409G	Over-all	15	19	10 $\frac{1}{2}$	32
		Drawer	14	15 $\frac{3}{8}$	3	Lhcug

HANDLES

Type	Description	Code
1427	Chrome-finished, Heavy-duty Metal Handle	Lewit
1428	Heavy-duty, Black Leather Type Handle	Levoz
1429	Heavy-duty, Black Plastic Handle	Leurt

SPEAKER PANELS



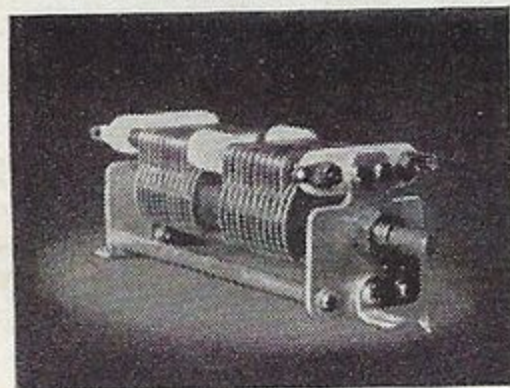
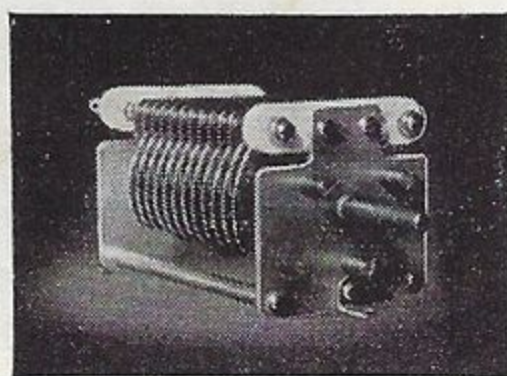
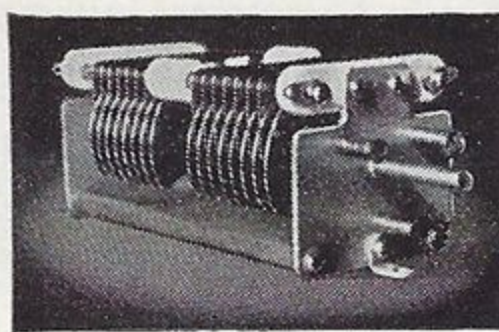
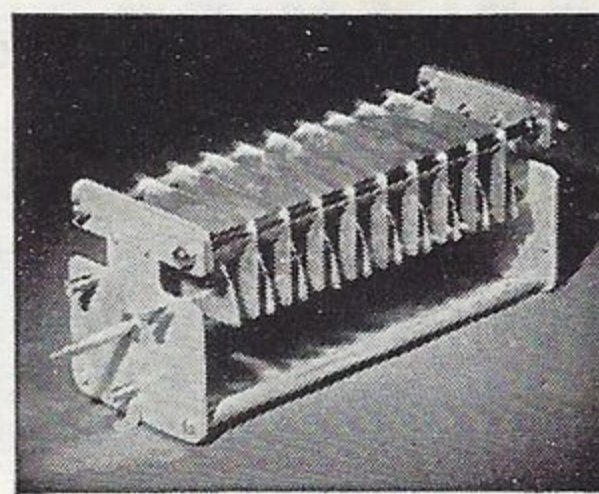
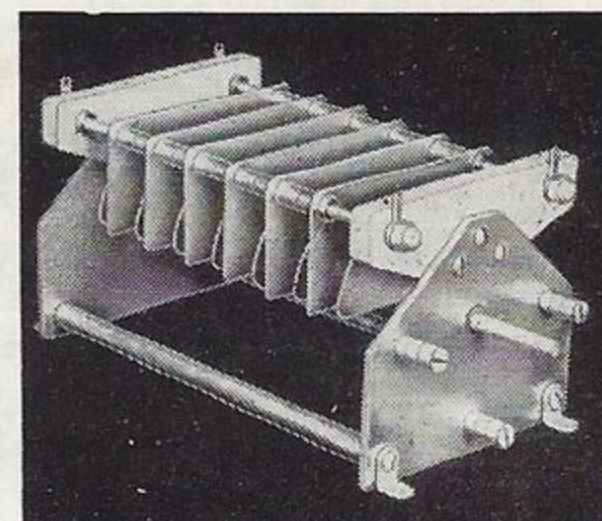
These 14 ga. Steel Speaker Panels are made for 5", 8" and 10" speakers, notched for standard racks and cabinets. Opening covered with steel grille. Speaker mounting holes not punched. Standard finishes — Black Wrinkle and Gray Hammerlin.

Black Wrinkle	Gray Hammerlin	Diam. Holes	Shipping Weight	Code
4-700S	5-700S	4 $\frac{11}{16}$ "	2 $\frac{1}{2}$	Lgsen
4-1050S	5-1050S	7 $\frac{5}{8}$ "	3 $\frac{1}{2}$	Lgsim
4-1225S	5-1225S	9 $\frac{5}{8}$ "	4 $\frac{1}{2}$	Lgsop

TOUCH-UP PAINT

Type	Quantity	Description	Code
1413-B	$\frac{1}{4}$ Pint	Black Wrinkle	Ltube .35
1413-G	$\frac{1}{4}$ Pint	Gray Hammerlin	Ltugu .50

HAMMOND VARIABLE CONDENSERS



7000 SERIES

- High Maximum to Minimum Capacity Ratio.
- Maximum Capacity and Voltage Rating for Size.
- Both Panel and Base Mountings.
- Rounded, Polished Plates (4600 v. up).
- Uniform Design in Four Distinct Series.

8000 SERIES

- Voltage and Capacity Stamped on Condenser.
- Long Leakage Path.
- All Types Available.
- Straight Line Capacity.
- Alsimag 196, or Isolantite Insulation.
- Spacer Type Construction.

8000 DUAL

9000 SERIES

12000 VOLT TYPE

- Rigid Stator Suspension.
- More Uniform Power Distribution in Plates.
- Ample Rotor Contact.
- Substantial Hot Tin-Dipped Lugs.
- Fully Guaranteed.
- Attractive Appearance.
- 1/4" Shaft

7000 SERIES

1 11/16" Wide
1 15/16" High

8000 SERIES

2 3/4" Wide
2 3/4" High

9000 SERIES

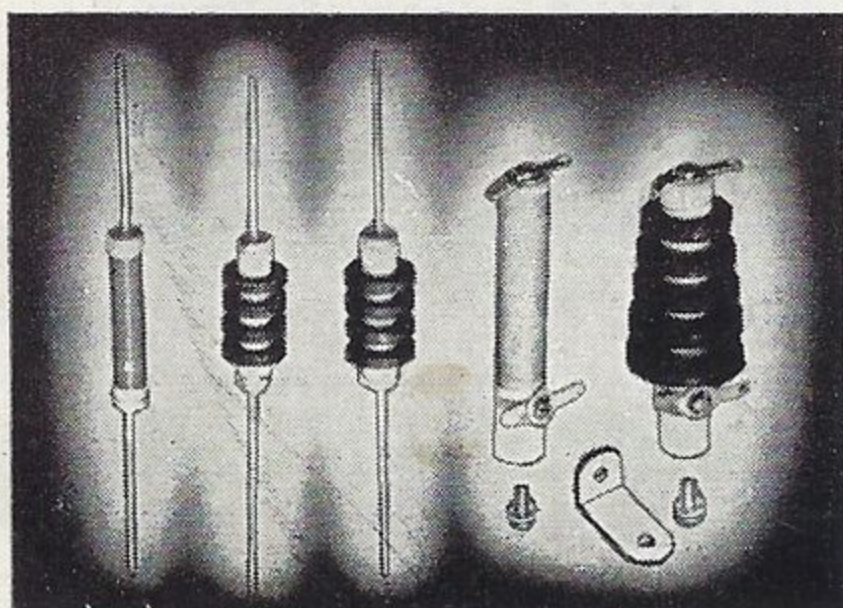
3 7/8" Wide
3 7/8" High

12000 V. SERIES

4 1/4" Wide
4 1/8" High

Type	Max.*	Min. z	Peak Volts	Spacing	Depth #	Code
7105	52	7 1/2	1500	.0375	2 1/4	Ideal
7110	100	10	1500	.0375	3	Idler
7115	149	11 1/2	1500	.0375	3 5/8	Igloo
7120	198	13	1500	.0375	4 1/4	Iglos
7705	52-52	7 1/2 - 7 1/2	1500	.0375	3 5/8	Imphy
7710	100-100	10-10	1500	.0375	4 7/8	Indue
8115	151	10	2400	.0375	3 1/8	Inert
8125	240	11	2400	.0375	3 7/16	Infer
8135	341	13	2400	.0375	3 13/16	Inlet
8820	205-205	10-10	2400	.0375	4 7/8	Inter
8302	25	8 1/2	4600	.080	3 1/8	Ionic
8305	51	9 1/2	4600	.080	3 1/8	Irate
8307	78	11	4600	.080	3 5/8	Irelt
8310	108	12 1/2	4600	.080	4	Irish
8315	162	17	4600	.080	4 7/8	Islet
8805	49-49	8 1/2 - 8 1/2	4600	.080	5	Issue
8810	106-106	11-11	4600	.080	6 5/8	Ivory
8815	165-165	14-14	4600	.080	8 1/8	Ivoxy
9315	155	11	4600	.080	4 1/4	James
9325	252	15	4600	.080	5 1/8	Janus
9335	355	18 1/2	4600	.080	6	Japan
9350	510	22 1/2	4600	.080	7 1/4	Jason
9522	225-225	13-13	4600	.080	11 1/2	Jasto
9602	28	10	7500	.185	4 5/8	Jaunt
9605	56	12 1/2	7500	.185	4 5/8	Jenny
9607	81	14 1/2	7500	.185	5 9/16	Jerky
9610	106	18	7500	.185	6 5/8	Jetty
9615	154	24	7500	.185	8 3/8	Jiffy
9905	56-56	12-12	7500	.185	8 1/4	Jingo
9910	103-103	18-18	7500	.185	11 9/16	Joint
9802	26	11-7	12000	.390	6	Joont
9805	50	18	12000	.390	7 3/4	Joupe
9807	78	24	12000	.390	10	Jousy
9810	96	33	12000	.390	12 1/2	Joule
9906	44 1/2 - 44 1/2	17 1/4 - 17 1/4	12000	.390	14 1/2	Joupo

*Capacity μmfd s $\pm 5\%$ with Plates In. z Capacity μmfd s $\pm 10\%$ Plates Out. # Depth Behind Panel.



R. F. CHOKES

Low loss ceramic forms. This series covers the spectrum from 2 MC to 60 MC.

Type	DC Ma.	MH.	DC Res.	Length	Weight	Mtg.	Code
1500	125	1	10 ohms	3/4"	1/4 oz.	Leads	Ibice
1501	75	10	45 ohms	1 1/8"	1/2 oz.	Leads	Ibeda
1502	500	.007	1.1 ohms	2"	1/2 oz.	Leads	Idabe
1504	125	2.5	43 ohms	2"	1 oz.	Leads	Idaco
1506	250	1.6	13 ohms	2"	1 oz.	Leads	Idagi
1508	500	.035	2.5 ohms	3 1/4"	1 oz.	Brkt.	Idalo
1510	400	4.4	12 ohms	3 1/4"	4 oz.	Brkt.	Idame
1512	1000	3.2	4.3 ohms	3 1/4"	5 oz.	Brkt.	Idasy

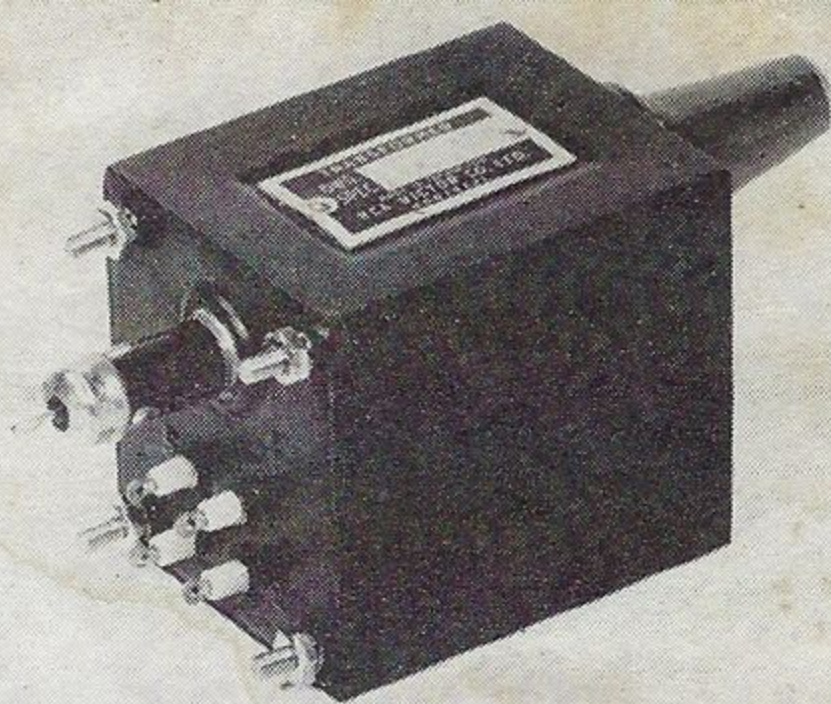
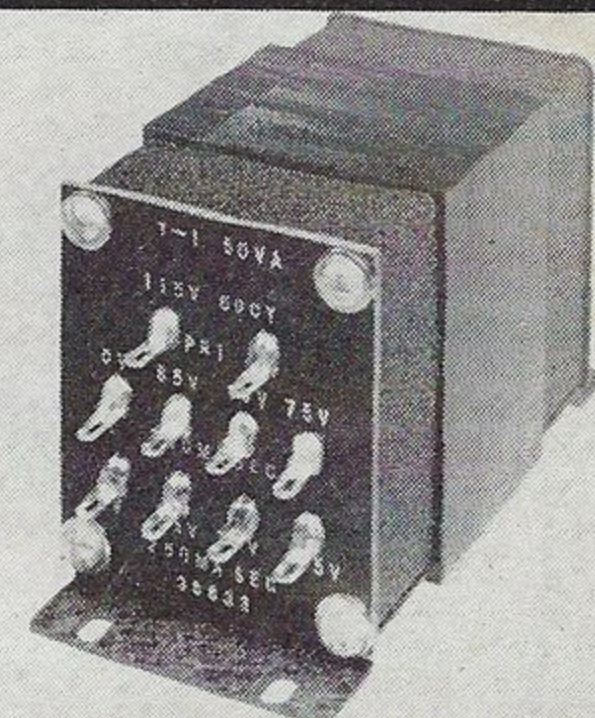
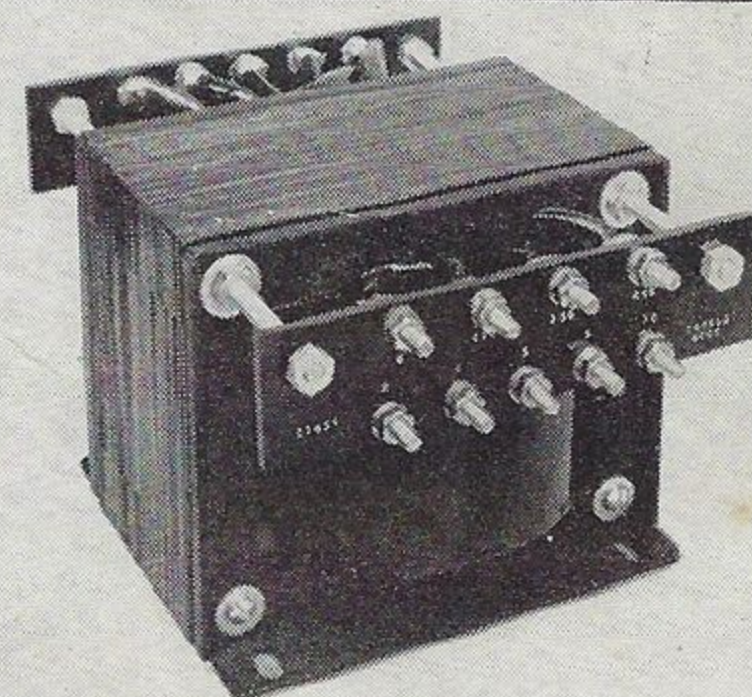
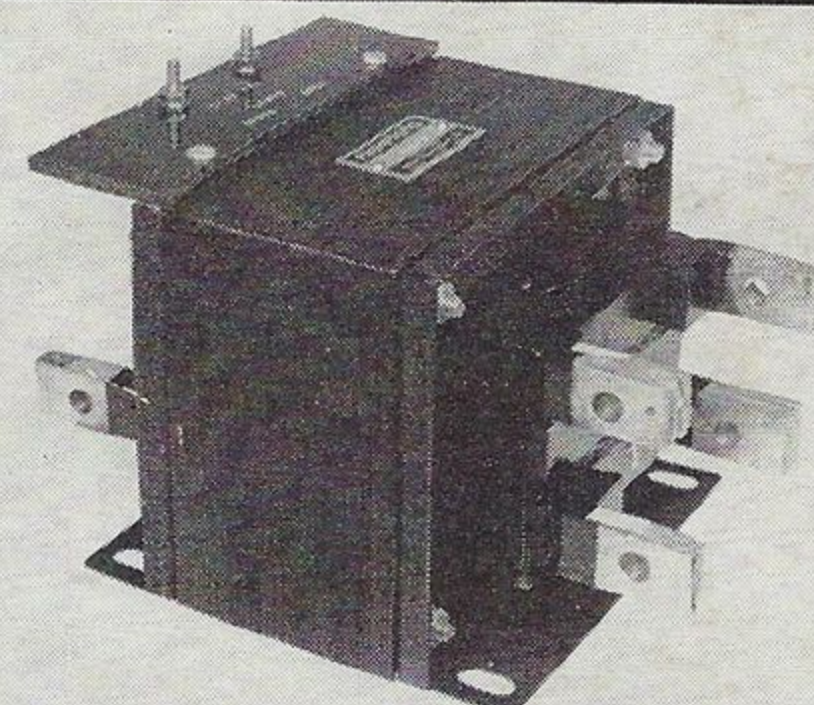
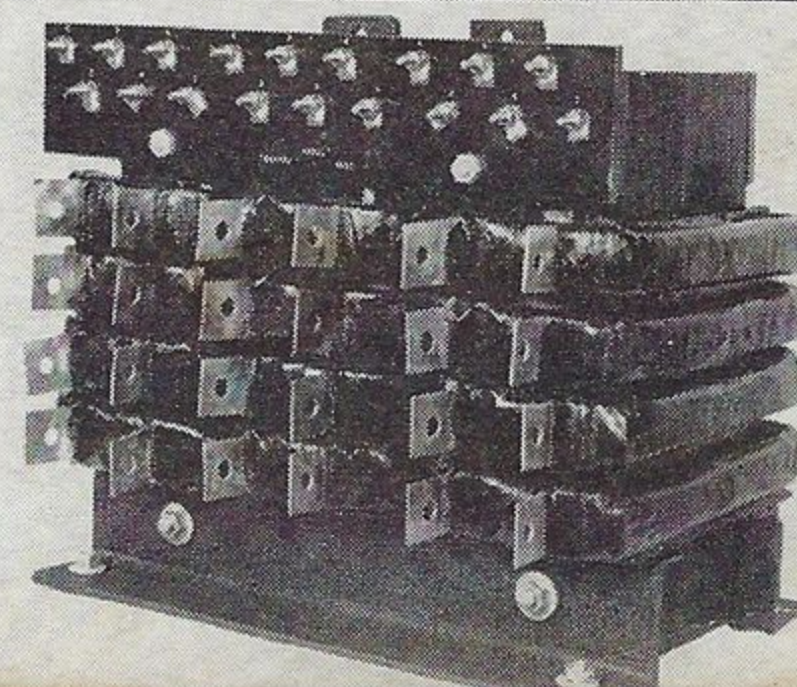
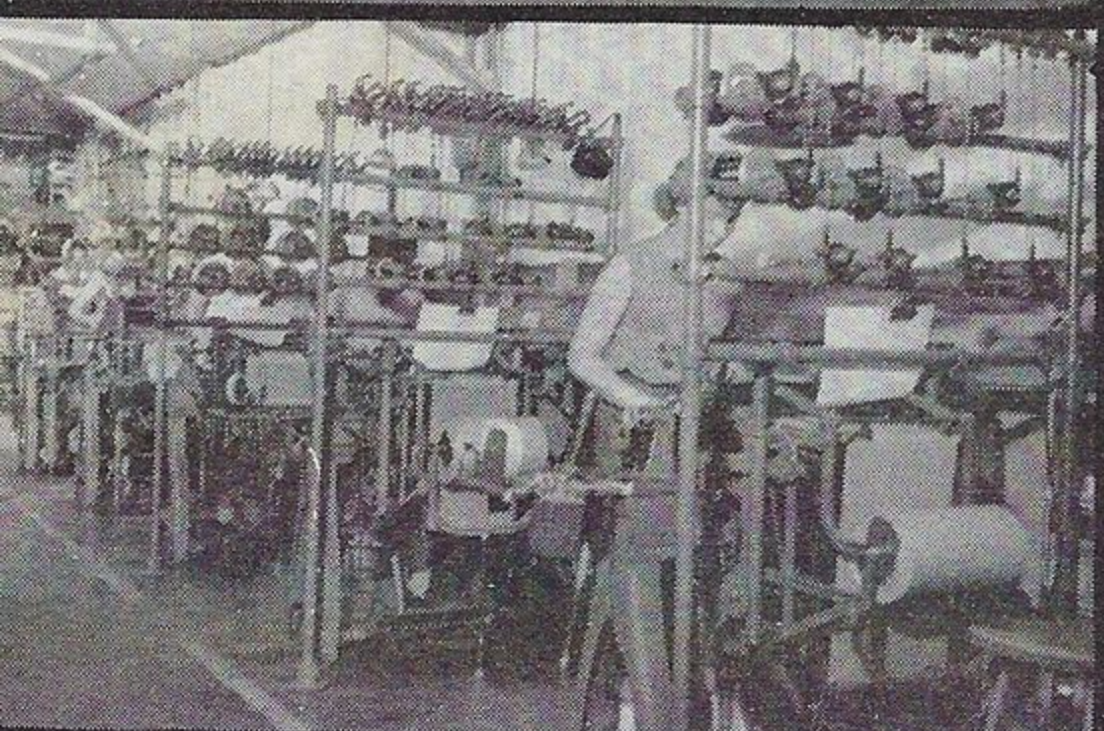
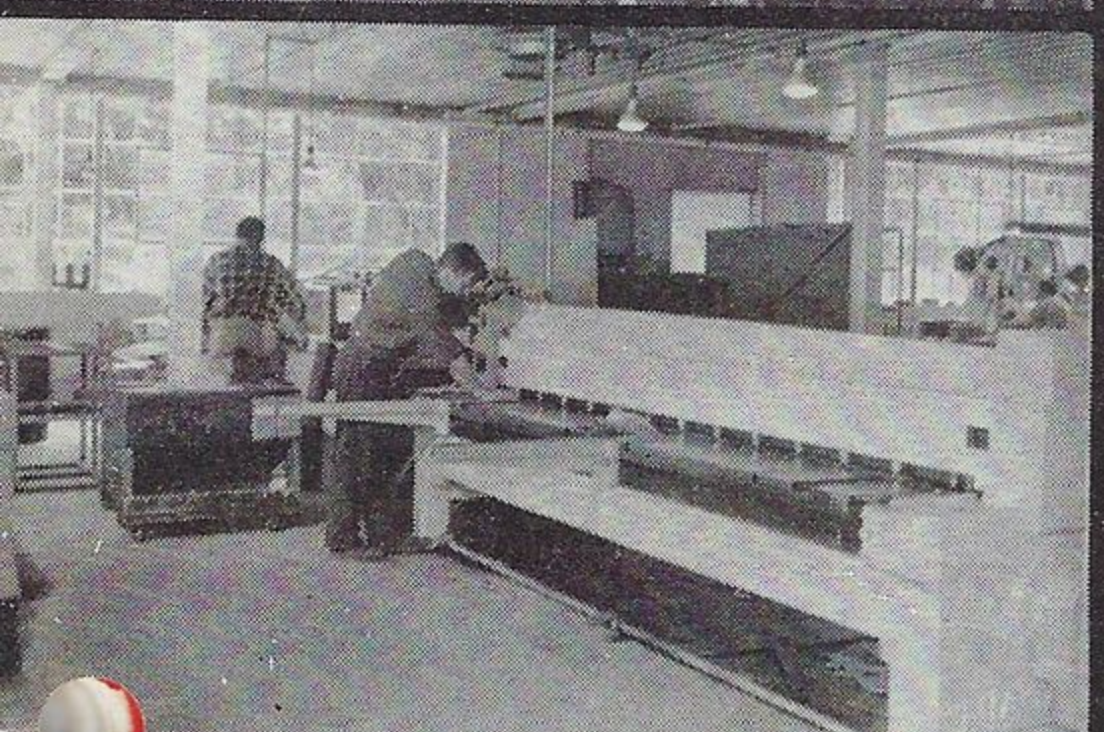
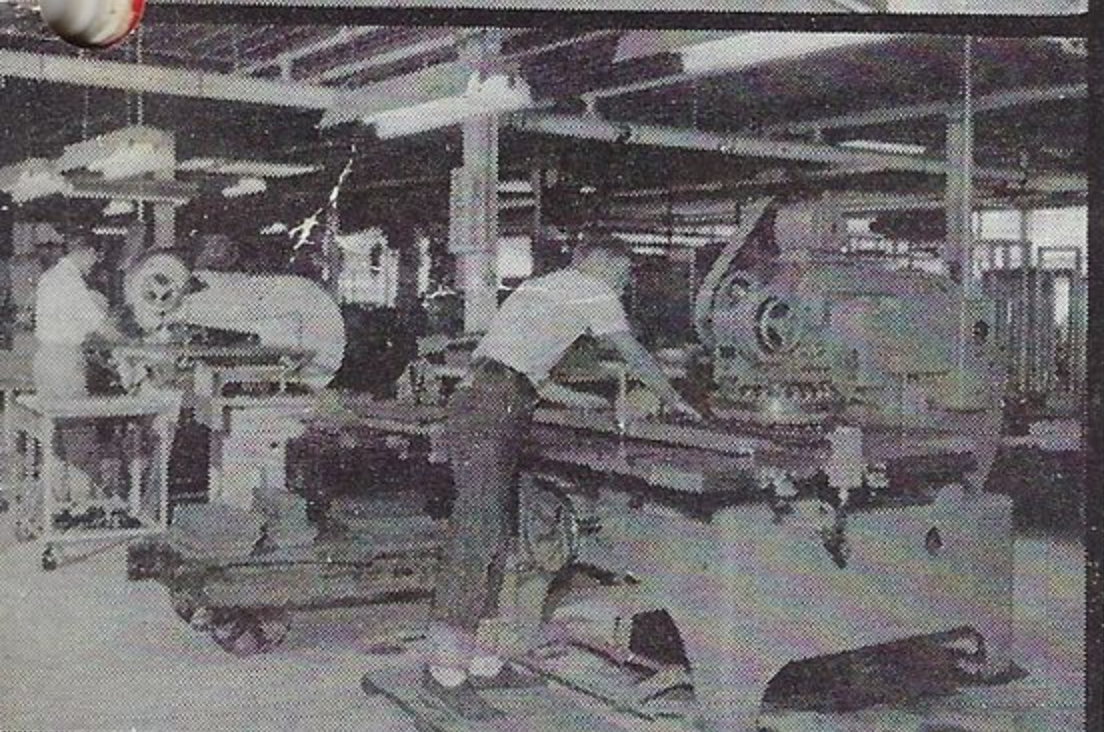
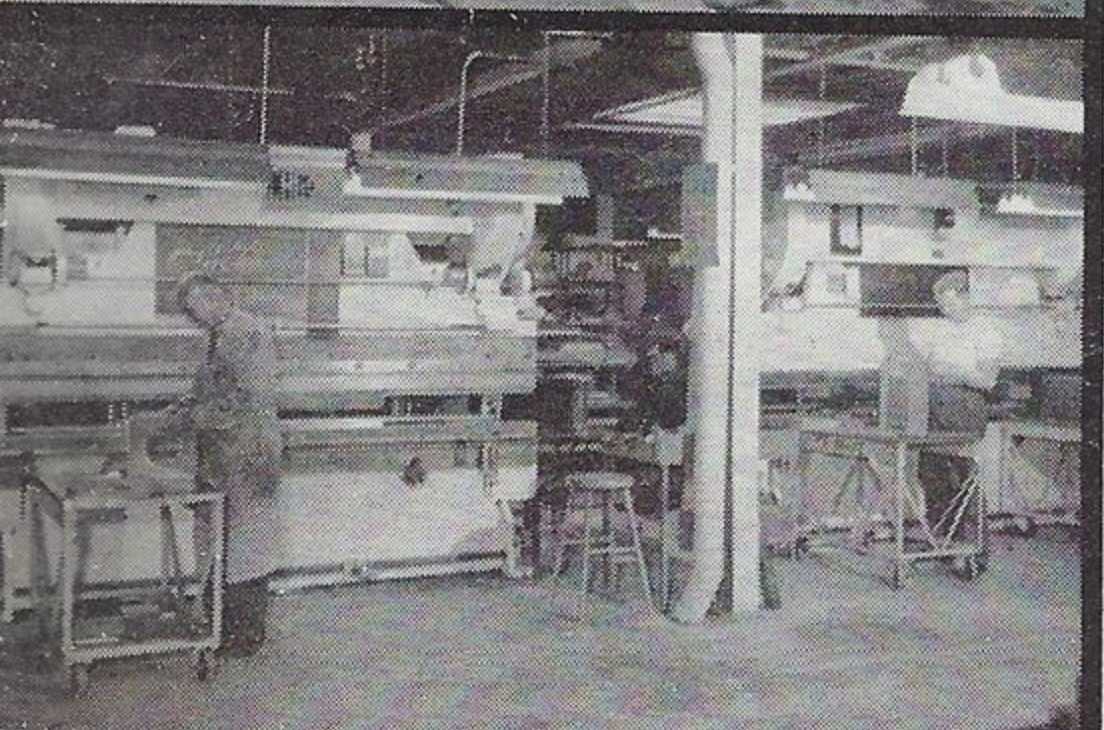
TRANSFORMERS

DESIGNED TO YOUR SPECIFICATIONS

For Electronic work, and for a great many replacement jobs, the stock items listed in this catalogue will likely meet your requirements. However, the transformer needs of the Electronic Industry are so varied that specials become a "must." Since 1927, HAMMOND has been known for their service and quality on special transformers, whether the specifications be simple or complicated.

To make this possible, Hammond has an extensive and completely equipped plant, manned by an experienced technical staff and well-trained production personnel. What is also very important — large stocks of Silicon laminations, Mumetal, "49" alloy, oriented strip and Hypersil cores are kept on hand at all times; together with magnet wire, insulation, etc., for Class "A", Class "B" and Class "C" applications. We are ready to give you service, whether your requirements be large or small.

In addition to the transformer division, we have a modern and fully equipped sheet metal fabrication department. This not only produces the required mountings for our transformers, but also produces cabinets, chassis, racks, etc., for the Electronic industry. To date, over 10,000 fabricated metal designs, ranging from a specially punched chassis to a large supervisory control panel 34 feet long and weighing 3000 lbs. have been made. Your enquiries are invited.



HAMMOND MANUFACTURING CO. LIMITED, GUELPH

Catalogue 67

Aug. 1, 1956-B

Type	Page	Net	Type	Page	Net	Type	Page	Net	Type	Page	Net	Type	Page	Net
1427	19	.39	1460B	14	19.28	1703	5	11.20	8815	20	10.61	4-875	18	1.78
1428	19	.57	1460C	14	20.68	1705	5	16.30	8820	20	7.68	4-1050	18	2.13
1429	19	.60	1460D	14	22.21	1713	4	16.90	9315	20	6.88	4-1225	18	2.46
1430-10	17	.40	1460F	14	25.72	1715	4	16.90	9325	20	8.36	4-1400	18	2.74
1430-12	17	.44	1460H	14	30.13	1726	4	17.95	9335	20	11.06	4-1575	18	3.09
1430-14	17	.48	1460J	14	34.60	1731	4	19.40	9350	20	13.79	4-1750	18	3.46
1430-16	17	.55	1460K	14	38.81	1736	4	19.40	9522	20	21.99	4-1925	18	3.88
1430-18	17	.61	1460M	14	43.01	1739	4	19.40	9602	20	5.22	4-2100	18	4.33
1430-20	17	.69	1460P	14	47.25	1764	4	26.60	9605	20	7.47	4-2275	18	4.86
1430-22	17	.72	1462B	14	84.38	1770	4	29.30	9607	20	11.07	5-Series	18	same
1430-26	17	.91	1462C	14	87.45	1772	4	20.80	9610	20	13.86	as 4-series		
1430-30	17	1.07	1462E	14	91.91	1782	5	16.90	9615	20	16.78	4-350D	17	5.36
1430-34	17	1.29	1463B	14	109.00	1786	5	20.15	9802	20	11.08	4-525D	17	5.96
1430-38	17	1.43	1463C	14	113.20	1789	4	16.15	9805	20	16.77	4-700D	17	6.81
1431		same	1463E	14	119.50	2000	5	2.55	9807	20	22.03	4-875D	17	7.40
Series	17		1465B	19	11.75	2002	5	2.35	9810	20	27.71	4-1050D	17	8.19
		as	1465C	19	12.09	2004	5	3.85	9905	20	16.96	4-1225D	17	8.79
1432	17	1430	1465E	19	14.32	2010	5	6.40	9906	20	29.44	4-1400D	17	9.68
Series			1465G	19	16.55	2018	5	6.60	9910	20	22.32	5-Series	17	same
1440-10	17	.90	1466D	19	42.09	2019	—	6.60	5-200X	10	3.44	as 4-series		
1440-12	17	.98	1466F	19	46.01	2030	5	7.12	5-300X	10	6.35	4-525G	18	1.42
1440-14	17	1.08	1466H	19	50.01	2035	5	7.55	5.500X	10	10.55	4-525H	18	1.52
1440-16	17	1.19	1490	15	1.61	2060	5	10.90	5V1000	11	36.90	4-525K	18	2.35
1440-18	17	1.30	1492	15	4.60	2065	5	11.40	5V1500	11	63.31	4-525M	18	2.63
1440-20	17	1.45	1493	15	2.81	2067	5	11.40	5V2000	11	94.90	5-525	18	same
1440-22	17	1.40	1494	15	3.04	2100	5	14.10	10-100X	10	3.53	Series	as 4-525	
1440-24	17	1.50	1495	15	3.32	2180	5	23.90	10-150X	10	5.00	4-700S	19	3.23
1440-26	17	1.70	1496	15	3.71	2182	5	24.40	10V200	11	9.50	4-1050S	19	4.37
1440-28	17	1.85	1497	15	4.10	2183	5	24.40	10-200X	10	6.35	4-1225S	19	5.36
1440-30	17	2.00	1498	15	4.50	2205	5	15.60	10V300	11	12.95	5-Series	19	same
1440-32	17	2.24	1500	20	.54	2210	5	19.95	10-300X	10	9.55	as 4-series		
1440-34	17	2.50	1501	20	.71	2220	5	30.80	10V500	11	22.40	6-175	18	1.33
1440-36	17	2.70	1502	20	.48	2230	5	42.60	10-500X	10	20.49	6-350	18	1.71
1440-38	17	3.04	1504	20	.61	2250	5	60.15	10V750	11	36.60	6-525	18	2.28
1440-40	17	4.27	1506	20	.84	2300	5	2.50	10V1000	11	58.60	6-700	18	2.87
1440-42	17	4.60	1508	20	1.41	2310	5	38.80	12S200	11	9.50	6-875	18	3.41
1441		same	1510	20	2.93	2320	5	48.90	12S300	11	12.95	6-1050	18	4.08
Series	17		1512	20	3.18	2330	5	89.60	12S500	11	22.04	6-1225	18	4.70
		as	1610	4	5.90	2350	5	96.00	12S750	11	36.60	6-1400	18	5.43
1442	17	1440	1611	4	5.90	7105	20	3.97	12S1000	11	58.60	6-1575	18	6.15
Series			1615	4	5.90	7110	20	4.50	20V500	11	39.29	6-1750	18	6.90
			1618	4	5.90	7115	20	5.20	20V750	11	60.13	6-1925	18	8.60
1450-10	17	3.09	1626	4	9.45	7120	20	5.90	30-65X	10	4.13	6-2100	18	9.30
1450-14	17	3.09	1633	4	7.35	7705	20	5.85	30-100X	10	5.71	6-2275	18	10.00
1450-16	17	3.09	1634	4	7.35	7710	20	6.80	30V150	11	10.52	7-Series	18	same
1450-22	17	4.13	1635	4	7.35	8115	20	4.26	30-150X	10	8.68	as 6-series		
1450-26	17	4.95	1636	4	7.35	8125	20	4.51	30V200	11	13.70	8-690	18	.49
1450-30	17	6.05	1637	4	7.35	8135	20	4.96	30-200X	10	10.80	8-710	18	.73
1450-34	17	6.63	1639	4	7.35	8302	20	4.08	30V300	11	23.70	8-812	18	.95
1450-38	17	7.41	1664	4	10.90	8305	20	4.73	30-300X	10	20.17	8-1017	18	1.45
1450-40	17	8.37	1668	4	12.65	8307	20	5.31	4-175	18	.55	9-175	18	8.20
1451		same	1678	4	13.10	8310	20	5.93	4-350	18	.73	9-350	18	9.10
Series	17	as	1682	4	16.50	8315	20	7.47	4-525	18	1.10			
		1450	1684	4	16.50	8805	20	7.59	4-700	18	1.56			
						8810	20	8.95						

Above Prices are Net F.O.B. Jobber Warehouses at: Toronto, Montreal, Hamilton, Ottawa, Quebec, London, Windsor, St. Catharines, Guelph, Belleville, Sudbury, Sault Ste. Marie, Chatham, North Bay, Ft. William, Oshawa.

For the Following F.O.B. Points the above prices are subject to an additional 5%—St. John, Halifax.

For the Following F.O.B. Points the above prices are subject to an additional 7%—Winnipeg.

For the Following F.O.B. Points the above prices are subject to an additional 8%—Regina, Saskatoon, St. John's.

For the Following F.O.B. Points the above prices are subject to an additional 9%—Calgary, Edmonton, Lethbridge.

For the Following F.O.B. Points the above prices are subject to an additional 10%—Vancouver, Victoria, Prince Rupert.

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Hammond Manufacturing Company, Limited

Catalogue 67

GUELPH, ONTARIO, CANADA

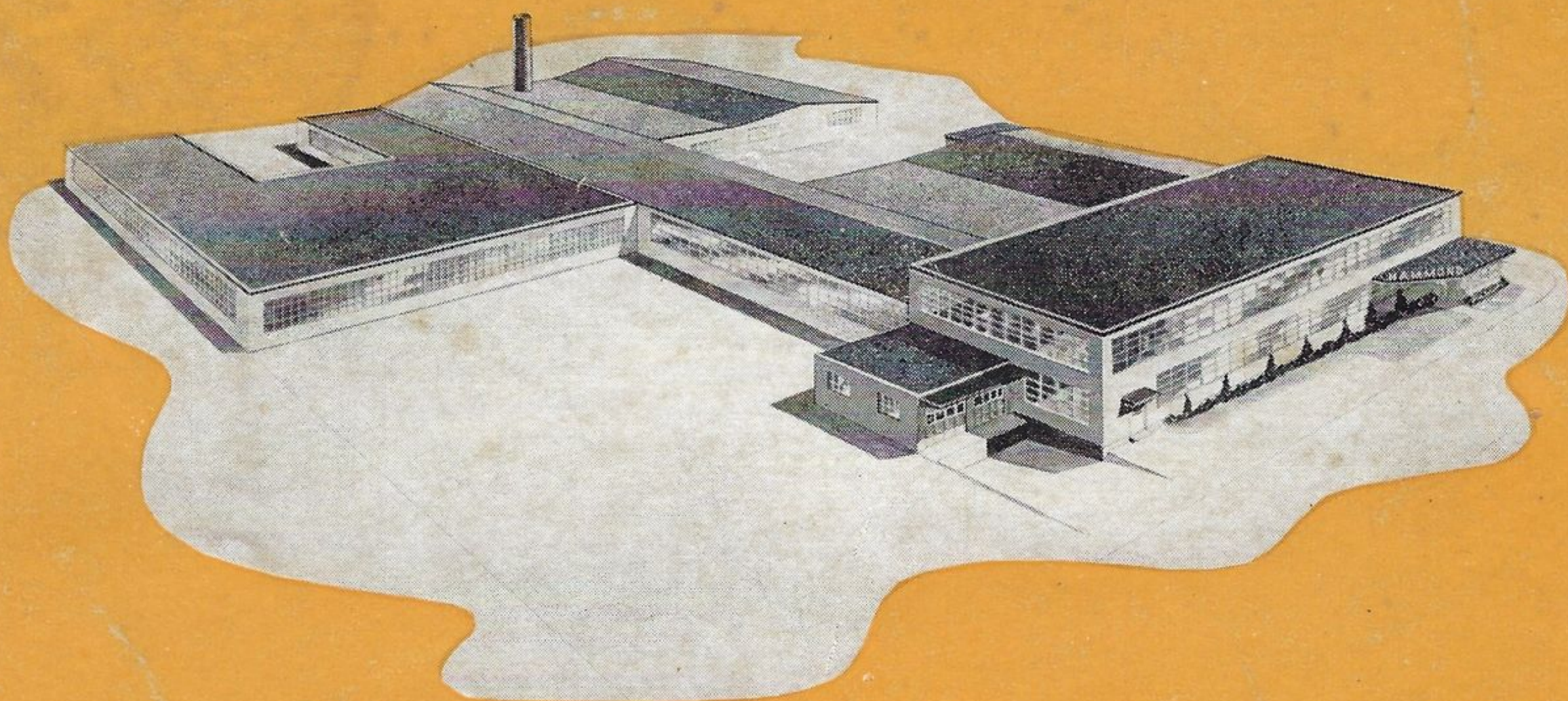
Aug. 1, 1956-B

Confidential Dealer's Net Price List
All Previous Prices and Conditions Cancelled

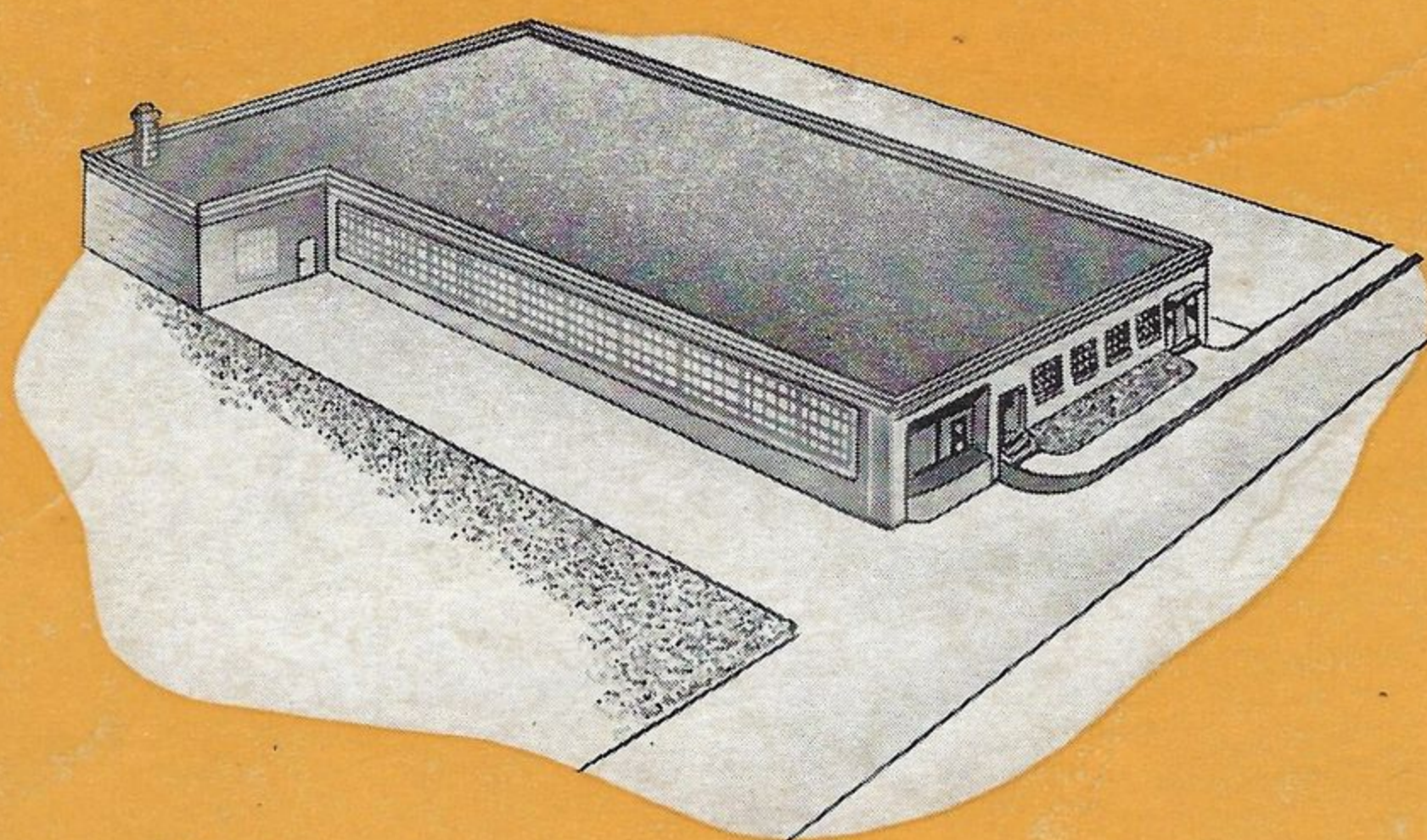
10% Sales Tax Included
For F.O.B. Points, see over

Type	Page	Net	Type	Page	Net	Type	Page	Net	Type	Page	Net	Type	Page	Net
43	1	1.16	159	10	2.89	262F60	7	3.50	1124X60	12	9.73	1405D	15	8.70
45	1	1.16	161-C	9	1.92	262G60	7	4.80	1125R60	12	15.75	1405F	15	9.20
48	1	1.16	161E	9	3.20	262J60	7	5.36	1125X60	12	11.85	1405H	15	9.80
51	1	1.38	161J	9	3.20	262L60	7	5.94	1126R60	12	11.10	1405J	15	10.40
52	1	1.38	161Q	9	3.20	262P60	7	6.76	1126X60	12	8.28	1405L	15	11.00
53	1	1.38	164-6	7	3.09	262R60	7	7.63	1127R60	12	15.05	1406C	19	2.58
54	1	1.38	164-12	7	3.09	263A60	6	4.68	1127X60	12	12.15	1406D	19	3.52
57	1	1.38	164A6	7	3.70	263C60	6	6.96	1128R60	12	6.98	1406E	19	4.34
58	1	1.38	164 A12	7	3.70	266-60	8	5.40	1128X60	12	4.81	1406F	19	5.43
62	1	1.50	164B6	7	3.89	267-60	8	6.15	1129R60	12	10.08	1406G	19	6.52
63	1	1.50	164B12	7	3.89	268-60	6	4.54	1129X60	12	7.14	1406H	19	7.59
64	1	1.50	164C6	7	4.94	269B60	6	4.68	1130R60	12	7.10	1407E	19	4.34
67	1	1.50	164C12	7	4.94	270-60	6	4.80	1130X60	12	5.05	1407F	19	5.44
68	1	1.50	164D6	7	6.55	270A60	6	4.68	1132R60	12	9.60	1407G	19	6.52
69	1	1.50	164D12	7	6.55	270B60	6	5.82	1132X60	12	6.78	1407H	19	7.59
74	1	2.08	164E6	7	7.12	270C60	6	5.82	1136X60	12	8.95	1409	19	22.60
77	1	2.08	164E12	7	7.12	271-60	6	6.55	1136R60	12	12.50	1411-B	16	.75
78	1	2.08	164J6	7	5.90	272-60	6	6.70	1140R60	12	8.95	1411-C	16	.75
79	1	2.08	164J12	7	5.90	272B60	6	7.15	1140X60	12	6.35	1411-D	16	.75
80	1	2.08	165-60	8	4.20	273-60	6	7.60	1141R60	12	9.60	1411-F	16	.85
111	1	1.92	165B60	8	2.92	273B60	6	10.55	1141X60	12	6.78	1411-G	16	.85
112	1	2.08	166-60	8	5.32	274-60	6	8.75	1142R60	12	11.30	1411-H	16	.85
113	1	2.08	167B60	8	1.78	275-60	6	10.30	1142X60	12	8.40	1411-J	16	.90
116	1	2.68	167C60	8	2.29	276-60	6	8.75	1143R60	12	16.90	1411-K	16	.95
119B	5	2.08	167D60	8	2.67	277-60	6	17.80	1143X60	12	12.10	1411-L	16	1.30
119C	5	2.48	167E60	8	3.80	278-60	6	11.05	1144R60	12	11.05	1411-N	16	1.00
119E	5	2.08	167F60	8	2.48	279-60	6	9.10	1144X60	12	9.15	1411-P	16	1.35
119F	5	2.08	167K60	8	2.21	284	7	8.40	1150R60	12	10.90	1411-Q	16	1.70
119G	5	2.98	167L60	8	2.80	285	7	8.40	1150X60	12	7.65	1411-R	16	2.00
119H	5	2.98	167M60	8	3.86	300 Series 2		3.95	1152R60	12	13.40	1411-T	16	1.25
119J	5	4.48	167P60	8	5.10	400 Series 2		7.82	1152X60	12	9.60	1411-U	16	2.55
119K	5	4.48	167Q60	8	6.16	710-60	13	8.49	1153R60	12	15.05	1411-W	16	1.55
125B	1	2.08	168B60	8	6.25	714-60	13	8.90	1153X60	12	11.70	1411-X	16	3.00
125C	1	2.48	168D60	8	8.93	715-60	13	10.09	1155R60	12	11.00	1411-Z	16	3.50
125D	1	2.78	168F60	8	17.40	717-60	13	17.90	1155X60	12	8.95	1412B	16	2.23
126	1	2.62	168H60	8	21.10	720-60	13	13.15	1165T60	11	9.45	1412D	16	3.60
130	1	1.98	168J60	8	26.65	722-60	13	17.90	1165X60	11	5.90	1413B	19	.35
131	1	1.98	169C60	8	9.95	724-60	13	12.60	1166T60	11	9.70	1413G	19	.50
132	1	1.98	169E60	8	17.01	726-60	13	12.90	1166X60	11	6.10	1415A	16	1.21
134	1	1.98	169G60	8	20.41	728-60	13	12.90	1167T60	11	15.90	1415B	16	1.38
135	1	1.98	170A60	8	6.38	732-60	13	18.05	1167X60	11	12.05	1415C	16	1.66
139	1	1.98	170B60	8	7.70	733-60	13	22.20	1168T60	11	10.85	1415D	16	1.81
140A	1	2.94	170C60	8	9.55	757-60	13	33.20	1168X60	11	7.45	1415E	16	2.64
140B	1	2.94	170D60	8	12.90	762-60	13	19.90	1171T60	11	10.85	1415F	16	3.17
140C	1	2.94	170F60	8	22.85	763-60	13	29.60	1171X60	11	7.45	1415G	16	3.49
140E	1	2.94	170G60	8	29.00	764-60	13	37.40	1172T60	11	12.90	1415H	16	4.28
140F	1	2.94	171A60	8	12.30	766-60	13	43.05	1172X60	11	10.49	1415I	16	4.61
140K	1	2.94	171B60	8	16.34	767-60	13	48.50	1173T60	11	20.95	1415J	16	4.75
142B	1	3.60	171C60	8	18.80	774-60	13	43.50	1173X60	11	16.11	1416D	16	1.74
142D	1	3.60	171E60	8	25.30	776-60	13	54.20	1402B	15	3.85	1416F	16	2.08
142F	1	3.60	172A60	8	12.60	777-60	13	68.80	1402C	15	4.13	1416J	16	2.36
142J	1	3.60	172B60	8	16.65	779-60	13	96.10	1402D	15	4.41	1416L	16	2.65
142K	1	3.60	173-60	9	32.20	783-60	13	60.80	1402E	15	4.81	1416N	16	3.18
142M	1	3.60	174D60	9	55.55	784-60	13	79.40	1402G	15	5.32	1416P	16	3.66
142Q	1	3.60	174F60	9	58.25	787-60	13	69.00	1402H	15	6.46	1416R	16	4.02
142R	1	3.60	174H60	9	62.99	788-60	13	81.50	1402I	15	6.97	1417B	18	8.90
142T	1	3.60	192C	10	3.84	793-60	13	73.65	1402J	15	8.30	1417G	18	8.90
148	10	1.05	192F	10	7.68	795-60	13	93.88	1403C	15	4.73	1419D	17	.91
149	10	1.05	193F	10	10.09	800 Series 3		8.40	1403D	15	5.50	1419F	17	1.31
150	10	1.27	195F	10	16.50	900 Series 3		14.81	1403E	15	6.38	1419H	17	1.42
151	10	1.43	197B	10	6.10	1109R60	12	9.60	1403G	15	7.28	1419J	17	1.82
152	10	1.27	197C	10	9.85	1109X60	12	6.87	1403H	15	8.55	1421	18	.11
153	10	1.43	197D	10	31.02	1120R60	12	6.80	1403I	15	9.28	1423B	18 Pr.	.57
153C	10	1.43	214-60	9	9.75	1120X60	12	4.69	1403J	15	11.49	1423D	18 Pr.	.78
154	10	1.67	215-60	9	10.60	1122R60	12	7.10	1404B	16	5.11	1423F	18 Pr.	1.13
155	10	1.72	216-60	9	17.62	1122X60	12	4.98	1404D	16	5.68	1424B	14	12.85
156	10	2.38	218-60	9	31.02	1123R60	12	9.60	1404F	16	6.77	1424F	14	13.50
157	10	3.10	262B60	7	2.68	1123X60	12	6.78	1404H	16	8.42	1425	14	
158	10	2.89	262D60	7	2.89	1124R60	12	12.80	1405B	15	8.25	Set of 4	5.30	

25 Cycle Types Add 50%



— PLANT NO. 1 —
 40 WELLINGTON STREET WEST, GUELPH
 (At Junction of Highways 6 & 7)



— PLANT NO. 2 —
 HAYES AVENUE, GUELPH
 (Devoted to JCNAAF Military Types)

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