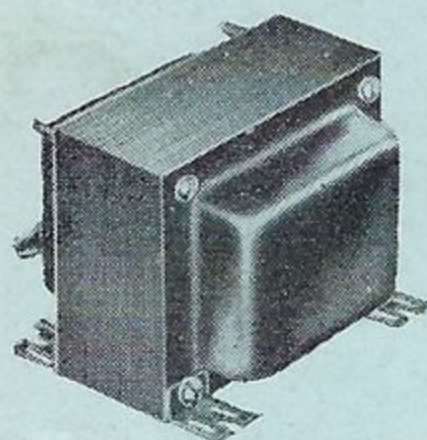


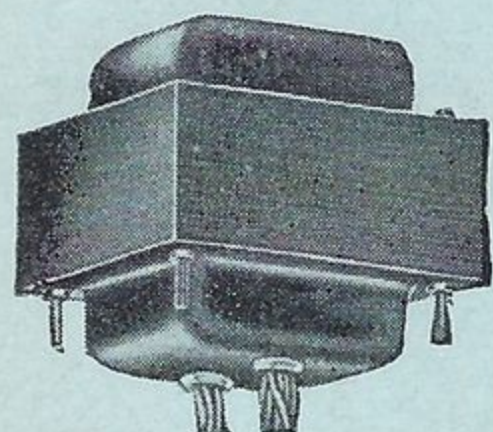


# VARITAP

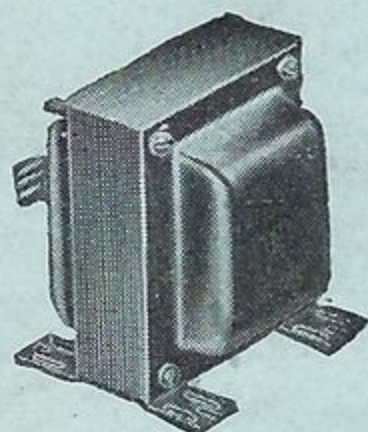
UNIVERSAL DUPLICATE TRANSFORMERS, AUDIO FILTER & POWER COMPONENTS



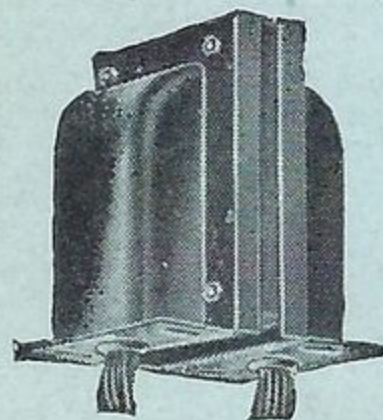
SR type horizontal mounting with removable slotted brackets.



SR type for bottom chassis mounting, slotted brackets removed.



SR type vertically mounted with removable slotted brackets.



VR type with slotted holes for mounting with leads through chassis.

## UTC VARITAP UNIVERSAL DUPLICATE TRANSFORMERS

UTC is first to introduce a truly workable, non-complicated, highly desirable VARITAP arrangement on filament and plate windings of Universal Duplicate Transformers.

UTC VARITAP Universal Duplicate Transformers are adapted to fit more than 4000 types of sets with a minimum of chassis alterations. The SR types are provided with removable slotted brackets which permit a wide degree of flexibility in meeting mounting centers and overall chassis dimensions on any radio receiver. The VR types permit of vertical mounting with leads through bottom of chassis. However the same degree of flexibility is permitted as to mounting centers. The mounting holes on the VR types are slotted to fit the majority of receiver mounting hole dimensions.

Thus the SR-2, VR-2, SR-3, VR-3 units will not only fit receivers requiring two separate  $2\frac{1}{2}$  volt windings, but also on all the new 6.3 volt receivers requiring two separate 6.3 windings.

The SR-6, VR-6 units will not only fit a great many receivers which cannot operate unless 3 separate  $2\frac{1}{2}$  volt windings are available—indeed these units are arranged so that they can be used in new receivers using three separate 6.3 volt windings.

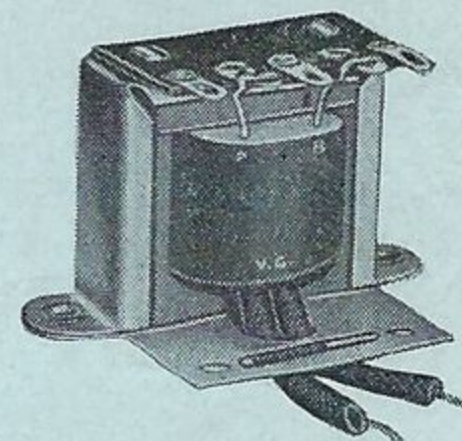
The SR-5 is arranged so that it can be used on receivers using 210, 250 tubes or on Class B sets using 46 and 59 tubes at plate voltages of 425 or over.

The SR-1 is arranged so that it can be used either with 2A3 or 42A prime tubes in 10 to 15 tube sets. Either  $2\frac{1}{2}$  or 6.3 volt tubes can be accommodated.

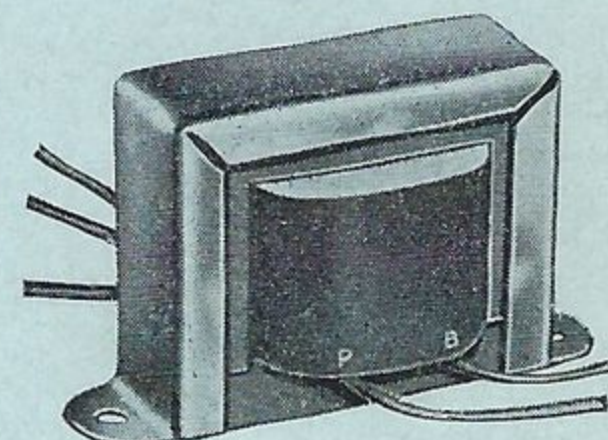
The SR-4 may be used in sets using  $1\frac{1}{2}$  and  $2\frac{1}{2}$  and 5 volt tubes or  $2\frac{1}{2}$  and 5 volt tubes.

The VARITAP units fulfill all the requirements of universality in the radio service replacement field. These are just the units the serviceman will recommend for that replacement job.

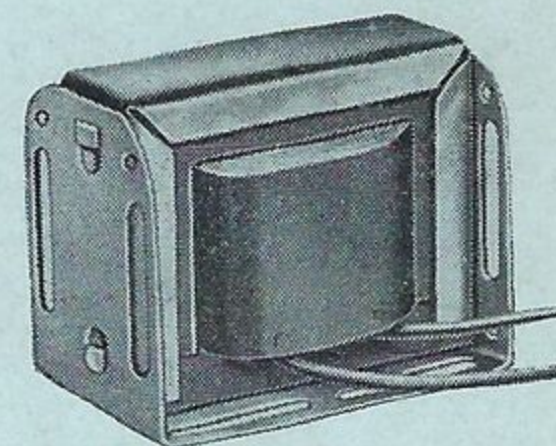
UTC also manufactures a complete line of Universal and All Purpose Audio Transformers as well as Flush type Power Transformers, all of superior construction, mechanically and electrically. Finest raw materials only are used and a most rigid engineering control is maintained in all the manifold production operations to assure the consumer long lasting service and satisfaction on all UTC products.



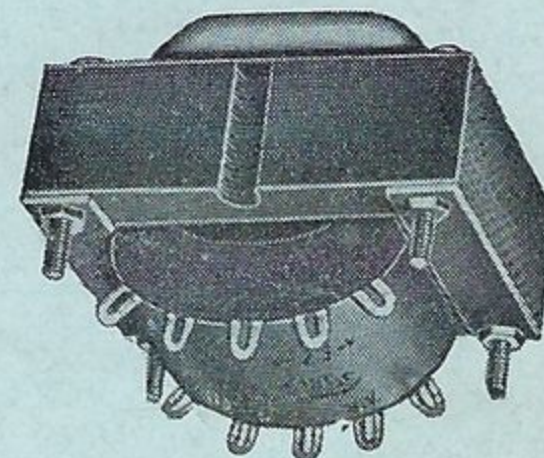
All purpose output transformers.



Open channel frame input and output transformers.



Universal mount audio transformers.



Flush type power transformers.

VR-1 BULLETIN

**UNITED TRANSFORMER CORP.**

**72-78 Spring Street**

**::**

**New York, N. Y.**



### OPEN CHANNEL FRAME AUDIO TRANSFORMERS

Mounting Centers 2 13/16" — L 3 5/16" W 1 1/2" H 2"

|       |                                               |        |
|-------|-----------------------------------------------|--------|
| U-31  | 1 plate to 1 grid 3:1 ratio.                  | \$1.75 |
| U-32  | 1 plate to 2 grids 2:1 ratio                  | 1.85   |
| U-32X | 1 plate to 2 grids 2:1 ratio split secondary  | 1.90   |
| U-33  | 2 plates to 2 grids 1.75:1 ratio              | 2.00   |
| U-47  | Single power pentode to single voice coil     | 1.50   |
| U-247 | Push pull power pentodes to single voice coil | 1.60   |
| U-45  | Single power triode to single voice coil      | 1.50   |
| U-245 | Push pull power triodes to single voice cell  | 1.60   |

### UNCASED UTC MIGHTY MITE AUDIO TRANSFORMERS

For Transceivers. For compact head amplifiers. For Pee Wee and aeroplane receivers.  
Mounting Centers 2 3/8" — L 2 7/8" W 1 3/8" H 1 11/16"

|      |                                                                           |        |
|------|---------------------------------------------------------------------------|--------|
| U-41 | Interstage audio 4:1 ratio.                                               | \$1.50 |
| U-51 | Single plate to two grids 2 1/2:1 ratio.                                  | 1.55   |
| UPM  | Single pentode 18, 20, 33, 41, 32, 2A5 plate to 4000 and 2000 ohms.       | 1.75   |
| UTM  | Single triode 71, 45, 59 plate to 4000 and 2000 ohms.                     | 1.75   |
| UMG  | Single or double button mike to 1 grid.                                   | 1.60   |
| UTG  | Single plate and carbon mike to single grid                               | 1.65   |
| UVO  | Velocity mike to 500 and 200 ohms.                                        | 2.00   |
| UHO  | Single 56, 27, or 864 plate to 500 and 200 ohms.                          | 2.00   |
| UPPM | Push pull triodes 71, 45, 59 to 4000 and 2000 ohms.                       | 1.75   |
| UTTM | Push pull pentodes 18, 20, 33, 41, 32, 42, 2A5, 47 to 4000 and 2000 ohms. | 1.75   |
| U30B | Driver 30 plate to Class B 19, 49, 79, 89 grids.                          | 1.75   |
| U19B | Class B 19, 49, 79 or 89 plates to 5000 or 3500 ohms                      | 1.75   |

### PEE WEE DYNAMIC SPEAKER OUTPUTS

|      |                                        |        |
|------|----------------------------------------|--------|
| MA-1 | Single power pentode to voice coil     | \$1.25 |
| MA-2 | Push pull power pentodes to voice coil | 1.35   |
| MA-3 | Single power triode to voice coil      | 1.25   |
| MA-4 | Push pull power triodes to voice coil  | 1.35   |

### UTC ALL-PURPOSE REPLACEMENT OUTPUT TRANSFORMERS

Due to their ingenious mounting arrangement, these transformers will easily fit a Rola, Wright DeCoster, Jensen, Utah, Magnovox, and other small dynamic speakers.

These units are compact. The mounting centers are from 3/4" to 2 3/8"; the height 1 5/8". A fine grade of silicon core material is used and each unit has a high degree of efficiency. A tapped secondary winding will match voice coils from two to eight ohms. A top lug terminal bracket is supplied so that field coil leads may be soldered directly to each unit.

|        |                                                                                 |        |
|--------|---------------------------------------------------------------------------------|--------|
| US-47  | Single power pentode like 18, 20, 33, 41, 32, 57, 2A5 to single voice coil      | \$1.50 |
| UPP-47 | Push pull power pentodes like 18, 20, 33, 41, 32, 47, 2A5 to single voice coil. | 1.50   |
| US-45  | Single power triode like 71, 45, or 59 to single voice coil.                    | 1.50   |
| UPP-45 | Push pull power triodes like 71, 45, or 59 to single voice coil.                | 1.50   |
| UPP-48 | Push pull 48's to single voice coil.                                            | 1.50   |

### UNCASED FILTER CHOKES AND FILAMENT TRANSFORMERS

|       |                                                                                                             |        |       |                                           |      |
|-------|-------------------------------------------------------------------------------------------------------------|--------|-------|-------------------------------------------|------|
| PC-1  | 10 henrys, 40 MA; 200 ohms D.C.                                                                             | \$0.95 | PC-11 | Parallel feed choke. Max. D.C.; 3 MA      | 1.75 |
| PC-2  | 15 henrys, 35 MA; 300 ohms D.C.                                                                             | .95    | PC-12 | 15 henrys, 250 MA; 120 ohms D.C.          | 5.50 |
| PC-3  | 16 henrys, 30 MA; 450 ohms D.C.                                                                             | .95    | PC-13 | Class B input choke. Max. D.C. 350 MA.    | 5.50 |
| PC-4  | 20 henrys, 25 MA; 600 ohms D.C.                                                                             | 1.10   | FT-1  | Pri. 115 A.C. Secondary 2 1/2 V.C.T. 3 A. | 1.25 |
| PC-5  | 25 henrys, 25 MA; 1000 ohms D.C.                                                                            | 1.25   | FT-2  | Pri. 115 A.C. Secondary 6.3 V.C.T. 1.2 A. | 1.25 |
| PC-6  | 12 henrys, 60 MA; 265 ohms D.C.                                                                             | 1.25   | FT-3  | Pri. 115 A.C. Sec. 2 1/2 V.C.T. 6 A.      | 1.50 |
| PC-7  | 20 henrys, 80 MA; 450 ohms D.C.                                                                             | 2.00   | FT-4  | Pri. 115 A.C. Sec. 6.3 V.C.T. 2 1/2 A.    | 1.75 |
| PC-8  | .125 henrys, 250 MA; 40 ohms D.C.                                                                           | 2.50   | FT-5  | Pri. 115 A.C. Sec. 2 1/2 V.C.T. 10 A.     | 1.75 |
| PC-9  | 8 henrys, 150 MA; 105 ohms D.C.                                                                             | 2.50   | FT-6  | Pri. 115 A.C. Sec. 5 V. 3 A.              | 1.75 |
| PC-10 | Class B input choke. Max. D.C. 165 MA.                                                                      | 2.50   | FT-7  | Pri. 115 A.C. Sec. 7 1/2 V.C.T. 3 A.      | 1.75 |
| UTF   | Pri. 105, 115, 125 A.C. Secondary tapped at 1.1, 1 1/2, 2, 2 1/2, 3.3, 5, 6.3, 7.5, 12.6, 15, 25, 30 volts. |        |       |                                           | 3.00 |

### UNIVERSAL REPLACEMENT INPUT AND OUTPUT TRANSFORMERS

|      |                                                                                                                                  |        |
|------|----------------------------------------------------------------------------------------------------------------------------------|--------|
| UR-1 | Interstage, 1 plate to 1 grid, 3:1 ratio.                                                                                        | \$1.75 |
| UR-2 | One plate to two grids, 2:1 ratio.                                                                                               | 1.85   |
| UR-3 | Push pull plates to push pull grids 1.75:1 ratio.                                                                                | 2.00   |
| USO  | Universal output—single and push pull triodes and pentodes Class A, push push triodes Class B to voice coils from .1 to 30 ohms. | 1.75   |

# FLUSH TYPE PLATE AND POWER TRANSFORMERS

Electrostatic shield separately grounded to frame. Primary 115 volts A.C. 50/60 cycles

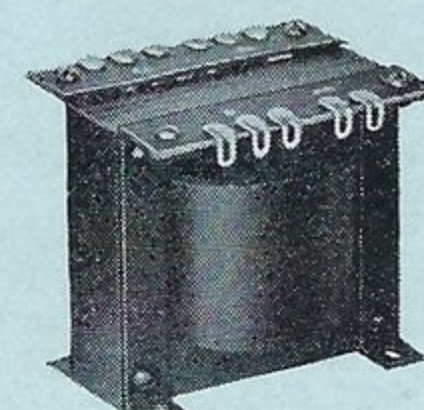
|       |                                                                                                                                                                                                                                                |        |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| UMX   | For short wave sets and tuners. Overall dimensions 3 x 2 1/2, mounting dimensions 2 1/2 x 2. Secondaries 500 V.C.T. 40 MA, 5 volts 2 amps, 2 1/2 V.C. T. 5 1/2 amps. ....                                                                      | \$2.00 |
| UMO   | For four tube midget sets. Overall dimensions 3 x 2 1/2. Mounting dimensions 2 1/2 x 2. Secondaries: 600 V.C.T. 45 MA, 5 volts 2 amps, 2 1/2 V.C.T. 5 1/2 amps. ....                                                                           | 2.25   |
| UM-1  | For four to five tube midget sets. Overall dimensions 3 3/8 x 2 13/16. Mounting dimensions 2 13/16 x 2 1/2. Secondaries: 650 V.C.T. 55 MA. 5 volts 2 amps., 2 1/2 V.C.T. 7 amps. ....                                                          | 2.50   |
| UM-2  | For five to six tube midget sets. Overall dimensions 3 3/8 x 2 13/16. Mounting dimensions 2 13/16 x 2 1/2. Secondaries: 680 V.C.T. 60 MA. 5 volts 2 amps., 2 1/2 V.C.T. 9 amps. ....                                                           | 2.75   |
| UM-3  | For six to seven tube midget sets. Overall dimensions 3 3/4 x 3 1/8. Mounting dimensions 3 1/8 x 2 1/2. Secondaries: 700 V.C.T. 75 MA. 5 V. 2 amps, 2 1/2 V.C.T. 10 1/2 amps. ....                                                             | 3.25   |
| UM-4  | For six to seven tube midget sets. Overall dimensions 3 3/4 x 3 1/8. Mounting dimensions 3 1/8 x 2 1/2. Secondaries: 700 V.C.T. 75 MA. 5 V. 2 amps, 2 1/2 V.C.T. 9 amps, 2 1/2 V.C.T. 3 amps. ....                                             | 3.50   |
| UM-4X | For seven to eight tube midget sets. Overall dimensions 3 3/4 x 3 1/8. Mounting dimensions 3 1/8 x 2 1/2. Secondaries: 650 V.C.T. 100 MA, 5 volts 2 amps, 2 1/2 V.C.T. 12 amps. ....                                                           | 4.00   |
| UM-5  | For nine to ten tube sets and power amplifiers. Overall dimensions 3 3/4 x 3 1/8. Mounting dimensions 3 1/8 x 2 1/2. Secondaries: 750 V.C.T. 100 MA, 5 volts 3 amps, 2 1/2 V.C.T. 3 amps, 2 1/2 V.C.T. 12 A. ....                              | 4.50   |
| UM-6  | For ten to twelve tube sets and power amplifiers. Overall dimensions 4 5/8 x 3 3/4. Mounting dimensions 3 3/4 x 3. Secondaries: 800 V.C.T. 125 MA, 5 volts 3 amps, 2 1/2 V.C.T. 5 amps, 2 1/2 V.C.T. 12 amps. ....                             | 5.50   |
| UM-7  | For receivers and power amplifiers using 2A3 and 46 power tubes. Overall dimensions 4 5/8 x 3 3/4. Mounting dimensions 3 3/4 x 3. Secondaries: 850 V.C. T. 175 MA, 5 volts 3 amps. 2 1/2 V.C.T. 5 amps, 2 1/2 V.C.T. 14 amps. ....             | 7.50   |
| UM-8  | For high power receivers and amplifiers using class B 46 and 59 power tubes. Overall dimensions 4 5/8 x 3 3/4. Mounting dimensions 3 3/4 x 3. Secondaries: 1100 V.C.T. 175 MA, 5 volts 3 amps, 2 1/2 V.C.T. 5 amps, 2 1/2 V.C.T. 10 amps. .... | 8.75   |

## FOR THE NEW 6.3 VOLT HEATER TUBES

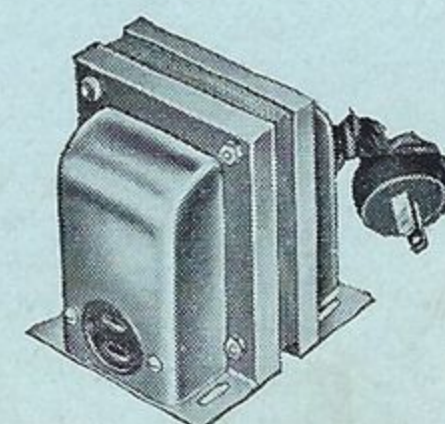
|      |                                                                                                                                                                                                                                                                |        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| UH-1 | For four to five tube sets. Overall dimensions 3 x 2 1/2. Mounting dimensions 2 1/2 x 2. Secondaries: 600 V.C.T. 50 MA, 5 volts, 2 amps, 6.3 V.C.T. 2 amps. ....                                                                                               | \$2.50 |
| UH-2 | For six to seven tube sets. Overall dimensions 3 3/4 x 3 1/8. Mounting dimensions 3 1/8 x 2 1/2. Secondaries: 700 V.C.T. 75 MA; 6.3 V.C.T. 3 amps, 2 1/2 V.C.T. 3 amps, 5 volts 3 amps. ....                                                                   | 4.00   |
| UH-3 | For eight to ten tube sets. Overall dimensions 3 3/4 x 3 1/8. Mounting dimensions 3 1/8 x 2 1/2. Secondaries: 750 V.C.T. 100 MA, 6.3 V.C.T. 4 amps, 2 1/2 V.C.T. 4 amps, 5 volts 3 amps. ....                                                                  | 5.00   |
| UH-4 | For amplifiers and receivers using 45, 2A3, 42, 6A3, and 6 volt metal tubes. Secondaries: 800 V.C.T. 125 MA; 5 volts 3 amps; 2 1/2 V.C.T. 5 amps, 6.3 V. C.T. 2 amps, 6.3 V.C.T. 3 amps. Overall dimensions 4 5/8 x 3 3/4. Mounting dimensions 3 3/4 x 3. .... | 6.00   |
| UH-5 | For heavy duty power amplifiers and receivers using 45, 2A3, 6A3, 42 and 6 volt metal tubes. Secondaries: 850 V.C.T. 200 MA; 5 volts 3 amps; 2 1/2 V.C.T. 5 amps, 6.3 V.C.T. 2 amps, 6.3 V.C.T. 4 amps. ....                                                   | 8.00   |

## FILAMENT TRANSFORMERS FOR LOW AND HIGH POWER TRANSMITTERS, PRIMARY 115 VOLTS A.C. 50/60 CYCLES

|       |                                                                                        |      |
|-------|----------------------------------------------------------------------------------------|------|
| LM-1  | 2 1/2 V.C.T. 20 A; 2500 V. insulation. OT mtg. ....                                    | 3.00 |
| LM-2  | 7 1/2 V.C.T. 6.5 A; 2500 V. insulation. OT mtg. ....                                   | 3.50 |
| LM-3  | 10 V.C.T. 6 1/2 A; 2500 V. insulation. OT mtg. ....                                    | 4.00 |
| LM-4  | 6.3 V.C.T. 5 A; 5 V.C.T. 6 A; 2500 V. insulation. OT mtg. ....                         | 4.00 |
| LM-5  | 2 1/2 V.C.T. 12 A; 5000 V. insulation. OT mtg. ....                                    | 3.50 |
| LM-6  | 5 V.C.T. 3 A; 5 V.C.T. 3 A; 5 V.C.T. 6 A; 2500 V. insulation. OT mtg. ....             | 4.00 |
| LM-7  | Three 7 1/2 V.C.T. 2 1/2 Amp. windings; 2500 V. insulation. OT mtg. ....               | 4.00 |
| LM-8  | 2 1/2 V.C.T. 5 A; 2 1/2 V.C.T. 5 A; 5 V.C.T. 3 A; 2500 V. insulation. OT mtg. ....     | 3.50 |
| LM-9  | 2 1/2 V.C.T. 5 A; 5 V.C.T. 3 A; 7 1/2 V.C.T. 3 A; 2500 V. insulation. OT mtg. ....     | 4.00 |
| LM-10 | 2 1/2 V.C.T. 5 A; 7 1/2 V.C.T. 3 A; 7 1/2 V.C.T. 3 A; 2500 V. insulation. OT mtg. .... | 4.00 |
| LM-11 | 5 V.C.T. 3 A; 7 1/2 V.C.T. 3 A; 7 1/2 V.C.T. 3 A; 2500 V. insulation. OT mtg. ....     | 4.00 |
| LM-12 | 2 1/2 V.C.T. 5 A; 5 V.C.T. 3 A; 6.3 V.C.T. 3 A; 2500 V. insulation. OT mtg. ....       | 4.00 |

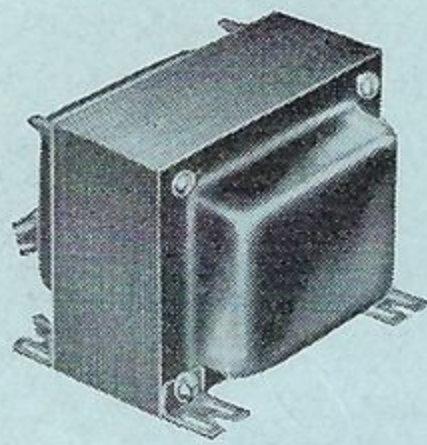


OT mtg.

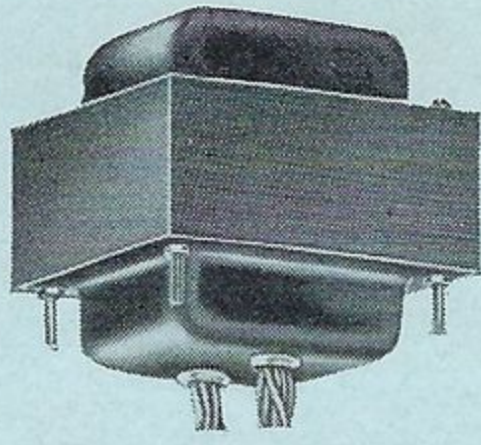


## Chromshield Step Down Transformers 220-240 to 110-120 Volts, 50-60 Cycles.

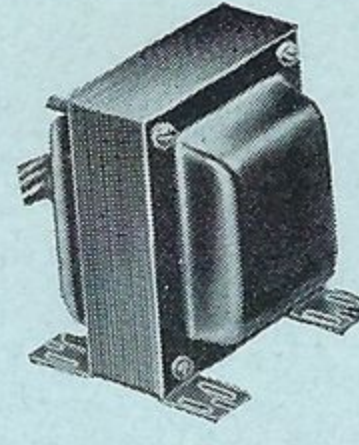
|        |                         |         |
|--------|-------------------------|---------|
| CS-120 | 85 Watt capacity .....  | \$ 4.50 |
| CS-121 | 125 Watt capacity ..... | 5.50    |
| CS-122 | 175 Watt capacity ..... | 6.50    |
| CS-123 | 250 Watt capacity ..... | 7.50    |



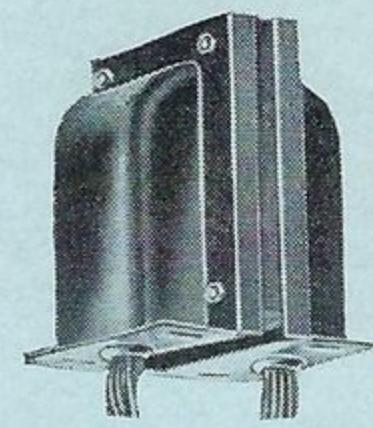
SR type horizontal mounting with removable slotted brackets.



SR type for bottom chassis mounting, slotted brackets removed.



SR type vertically mounted with removable slotted brackets.



VR type with slotted holes for mounting with leads through chassis.

### VARITAP UNIVERSAL DUPLICATE TRANSFORMERS

**SR-1 400-0-400 @ 135 MA**  
 (1) 6.3 volts @ 1.6 A, or 2.5 volts @ 10 A  
 (2) 6.3 volts @ 5 A, or 2.5 volts @ 5 A  
 (3) 5 volts @ 3 A

**SR-2 350-0-350 @ 75 MA**  
**VR-2** (1) 6.3 @ 1.2 A, or 2 1/2 volts @ 9 A  
 (2) 6.3 @ 3 A, or 2 1/2 volts @ 3 A  
 (3) 5 volts @ 3 A

**SR-3 350-0-350 @ 100 MA**  
**VR-3** (1) 6.3 @ 3 A, or 2 1/2 volts @ 3 A  
 (2) 6.3 @ 1.2 A, or 2.5 volts @ 10 A  
 (3) 5 volts @ 3 A

**SR-4 300-0-300 @ 100 MA**  
**VR-4** (1) 2 1/2 volts @ 10 A, or 1 1/2 volts @ 10 A  
 (2) 1 1/2 volts @ 1 A  
 (3) 5 volts @ 3 A, or 2 1/2 volts @ 3 A  
 (4) 5 volts @ 2 A

**SR-5 550-480-0-480-550 @ 150 MA**  
 (1) 2 1/2 volts @ 10 A, or 1 1/2 volts @ 10 A  
 (2) 2 1/2 volts @ 4 A, or 1 1/2 volts @ 4 A  
 (3) 7 1/2 volts @ 2 1/2 A  
 (4) 7 1/2 volts @ 3 A, or 5 volts @ 3 A

**SR-6 350-0-350 @ 100 MA**  
**VR-6** (1) 6.3 volts @ 3 A, or 2 1/2 volts @ 3 A  
 (2) 6.3 volts @ 2 A, or 2 1/2 volts @ 2 A  
 (3) 6.3 volts @ 1.2 A, or 2 1/2 volts @ 9 A  
 (4) 5 volts @ 3 A

#### SR-1 DIMENSIONS

Upright from 2" to 3" wide by from 2 9/16" to 3 9/16" long  
 Horizontal from 2" to 3" wide by from 3 1/4" to 4 1/4" long

#### SR-2 DIMENSIONS

Upright from 1 3/4" to 2 3/4" wide by from 2" to 3" long  
 Horizontal from 1 3/4" to 2 3/4" wide by from 2 5/8" to 3 5/8" long

#### VR-2 DIMENSIONS

Overall 3 5/16" by 3 5/16" by 4 1/8" high  
 Mtg. Dimensions 2 1/2" wide by from 1 3/4" to 2 3/8" long

#### SR-3 DIMENSIONS

Upright from 2 1/2" to 3 1/2" wide by from 2" to 3" long  
 Horizontal from 2 1/2" to 3 1/2" wide by from 2 5/8" to 3 5/8" long

#### VR-3 DIMENSIONS

Overall 3 5/16" by 4 1/16" by 4 1/8" high  
 Mtg. Dimensions 2 1/2" wide by from 2 1/2" to 3 1/8" long

#### SR-4 DIMENSIONS

Upright from 2 1/2" to 3 1/2" wide by from 2" to 3" long  
 Horizontal from 2 1/2" to 3 1/2" wide by from 2 5/8" to 3 5/8" long

#### VR-4 DIMENSIONS

Overall 3 5/16" by 4 1/16" by 4 1/8" high  
 Mtg. Dimensions 2 1/2" wide by from 2 1/2" to 3 1/8" long

#### SR-5 DIMENSIONS

Upright from 3 3/16" to 4 3/16" wide by from 2 9/16" to 3 9/16" long  
 Horizontal from 3 3/16" to 4 3/16" wide by from 3 1/4" to 4 1/4" long

#### SR-6 DIMENSIONS

Upright from 2 1/2" to 3 1/2" wide by from 2" to 3" long  
 Horizontal from 2 1/2" to 3 1/2" wide by from 2 5/8" to 3 5/8" long

#### VR-6 DIMENSIONS

Overall 3 5/16" by 4 1/16" by 4 1/8" high  
 Mtg. Dimensions 2 1/2" wide by from 2 1/2" to 3 1/8" long

#### LIST

SR-1.....\$6.25

SR-2.....\$4.25

VR-2.....\$4.75

SR-3.....\$5.00

VR-3.....\$5.50

SR-4.....\$4.75

VR-4.....\$5.25

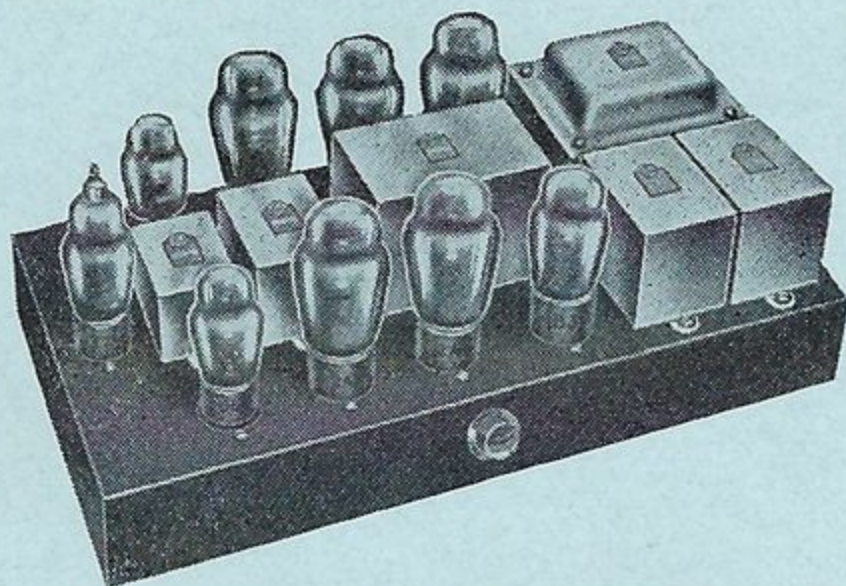
SR-5.....\$9.00

SR-6.....\$5.25

VR-6.....\$5.75

### UTC CHROMSHIELD AMPLIFIER KITS

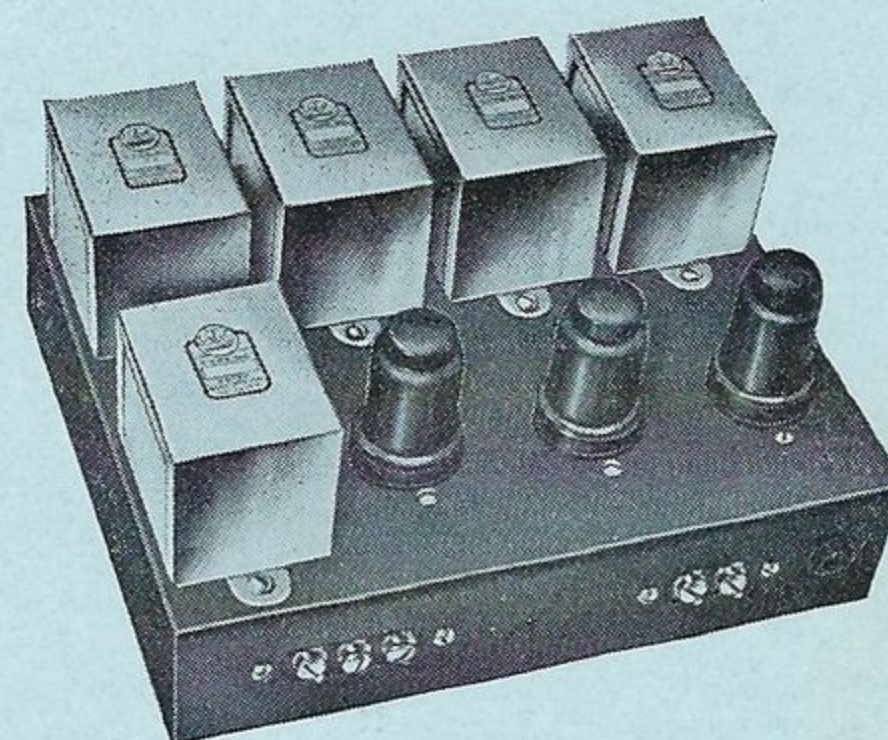
Another source of revenue for the enterprising service dealer. Schematic and point to point layout furnished with each amplifier kit.



The CK-4 amplifier kit commends itself for its high output and its simplicity in actual constructional details. The 2A3 or 45 tubes are used in A prime amplification and a fixed bias rectifier makes possible an undistorted output of 30 watts normal. The peak output is 40 watts. The gain is more than 80 DB. The tubes used are a triode connected 57, push pull 56's, push pull parallel 2A3's or 45's, an 83 plate rectifier and a 45 C bias rectifier.

CK-4 transformer kit including CS 452 output and chassis .....\$33.50

AK-4 Accessory kit includes all necessary resistors, condensers, sockets, terminal strips, AC cord and plug, hardware, wire \$11.00



The CK-7 preamplifier kit uses two metal 6C5 tubes in cascade amplification. A 6C5 is used as a rectifier. Careful placement of parts and shielded components is responsible for the extremely low hum and noise level in the CK-7 preamplifier. The overall gain is 55 DB.

CK-7 transformer kit mounted on chassis .....\$16.00

AK-7 accessories includes all necessary resistors, condensers, sockets, AC cord and plug, hardware, wire .....\$ 6.00

USE A VARITAP OR FLUSH TYPE TRANSFORMER AS REPLACEMENT IN FOLLOWING SETS

|                                                  |     |     |     |  |  |
|--------------------------------------------------|-----|-----|-----|--|--|
| A. C. DAYTON                                     |     |     |     |  |  |
| AC 9980, 9990                                    | SR3 | VR3 | UM5 |  |  |
| AC 63                                            | SR4 | VR4 |     |  |  |
| AC 65, 66                                        | SR5 |     |     |  |  |
| ACME                                             |     |     |     |  |  |
| 98                                               | SR1 |     | UM6 |  |  |
| AIRLINE                                          |     |     |     |  |  |
| 14,000, 62,000, 2955, 2957, 1355, 1955           |     |     |     |  |  |
| 1355X, 62-118, 62-107, 62-121, 62-101,           |     |     |     |  |  |
| 62-181, 62-040, 62-030, 62-232, 62-89, 62-40,    |     |     |     |  |  |
| 62-50                                            | SR1 |     | UM6 |  |  |
| 16X, 16, 18X, 7, 62-7, 62-8, 62-20, 62-204,      |     |     |     |  |  |
| 62-20, 62-30, 62-29 (2 type), 62-97, 62-99,      |     |     |     |  |  |
| 62-97X, 62-99X, 62-070, 62-060, 10,000,          |     |     |     |  |  |
| 500, 1111, 811, 11,000                           | SR2 | VR2 | UM4 |  |  |
| 62-1, 62-9, 62-14, 62-11, 62-14X, 62-34, 62-020, |     |     |     |  |  |
| 62-010, 1238, 1838, 1838X, 2822, 2827,           |     |     |     |  |  |
| 2895, 2897                                       | SR3 | VR3 | UM5 |  |  |
| AE10, AE11,                                      | SR4 | VR4 |     |  |  |
| 62-103, 62-105                                   | SR2 | VR2 | UH2 |  |  |
| 62-132, 62, 137                                  | SR1 |     | UH4 |  |  |
| AMRAD                                            |     |     |     |  |  |
| AC-6, AC-6C, AC-7                                | SR4 | VR4 |     |  |  |
| 81                                               | SR1 |     | UM6 |  |  |
| APEX                                             |     |     |     |  |  |
| 9 (900), 19 (902), 12, 120 Class B, 29, 31,      |     |     |     |  |  |
| 1006, 1007, 1009 (3070), 10                      | SR1 |     | UM6 |  |  |
| 5-A (502), 7, 7-D (700), 20, 24 (400), 25        |     |     |     |  |  |
| (500), 26, 27, 99                                | SR2 | VR2 | UM4 |  |  |
| 8, 28, 32, 41, 47, 47A, 48, 48A, 160, 90 (250)   | SR3 | VR3 | UM5 |  |  |
| 36, 37                                           | SR4 | VR4 |     |  |  |
| ATWATER-KENT                                     |     |     |     |  |  |
| 70, 74, 76 Type F, 70, 74, 76 Type L, 72 Type    |     |     |     |  |  |
| H-1, 72 Type H-2, 711                            | SR1 |     | UM6 |  |  |
| 80, 83, 82, 85, 84, 86 (2nd type), 92, 92F,      |     |     |     |  |  |
| 94, 96 (1st type), 145, 325, 165, 185,           |     |     |     |  |  |
| 525 (2nd type), 185A, 217, 427, 667, 246,        |     |     |     |  |  |
| 266 (2nd type), 555 (1st type), 555 (2nd         |     |     |     |  |  |
| type), 627                                       | SR2 | VR2 | UM4 |  |  |
| 55, 60, 60C (1 & 2 types), 60, 60C (3 types),    |     |     |     |  |  |
| 87, 89, 96 (2nd type), 96 (3rd type), 96F,       |     |     |     |  |  |
| 99 (1st type), 99 (2nd type), 99 (3rd            |     |     |     |  |  |
| type), 99-P, 99-F, 188F (1st type), 188          |     |     |     |  |  |
| (2nd type), 260, 260F (1st type), 260,           |     |     |     |  |  |
| 260F (2nd type), 260 (3rd type), 310, 510,       |     |     |     |  |  |
| 448, 469, 469F (1st type), 469 (2nd type),       |     |     |     |  |  |
| 480, 558, 708, 808, 788, 808-A, 76 Type P        | SR3 | VR3 | UM5 |  |  |
| 37, 38, 40, 42, 44, 62, 56, 46, 53, 55F,         |     |     |     |  |  |
| 55FC (early)                                     | SR4 | VR4 |     |  |  |
| 66                                               | SR5 |     |     |  |  |
| AUDIOLA                                          |     |     |     |  |  |
| D-14                                             | SR1 |     | UM6 |  |  |
| Super 31                                         | SR1 |     | UM6 |  |  |
| 31                                               | SR3 | VR3 |     |  |  |
| BALKEIT                                          |     |     |     |  |  |
| A                                                | SR2 | VR2 | UM4 |  |  |
| CF                                               | SR3 | VR3 | UM5 |  |  |
| BELMONT                                          |     |     |     |  |  |
| 70                                               | SR2 | VR2 | UM4 |  |  |
| 40, 47, 48, 50, 50A, 50B, 50C, 51A, 60           |     |     | UM2 |  |  |
| BOSCH                                            |     |     |     |  |  |
| 370, 310A, 260, 261, 250, 251, 60, 60D,          |     |     |     |  |  |
| 60E, 61                                          | SR1 |     | UM6 |  |  |
| 4 (Essex), 5, 31, 32, 36, 37, 40, 41, 91, 200,   |     |     |     |  |  |
| 201, 205, 206, 236, 237, 242, 243, 305A,         |     |     |     |  |  |
| 350, 352, 354, 360, 460                          | SR2 | VR2 | UM4 |  |  |
| 10 (Essex), 20, 48, 49, 58, 58A, 58B, 59, 73,    |     |     |     |  |  |
| 74                                               | SR3 | VR3 | UM5 |  |  |
| 28, 28A, 28AA, 28C                               | SR4 | VR4 |     |  |  |
| 27B, 29                                          | SR5 |     |     |  |  |
| 440                                              | SR2 | VR2 | UH2 |  |  |
| 480                                              | SR1 |     | UH4 |  |  |
| BREMER-TULLY                                     |     |     |     |  |  |
| 81, S-81, 82, S-82                               | SR3 | VR3 | UM5 |  |  |
| 6-40, 6-41, 7-70, 7-71                           | SR4 | VR4 |     |  |  |
| 8-20, 8-21                                       | SR5 |     |     |  |  |
| BROWNING DRAKE                                   |     |     |     |  |  |
| 60, 63, 69                                       | SR3 | VR3 | UM5 |  |  |
| Junior                                           |     |     | UM2 |  |  |
| BRUNSWICK                                        |     |     |     |  |  |
| 10                                               |     |     | UM2 |  |  |
| 11, 12, 16, 18, 33                               | SR2 | VR2 | UM4 |  |  |
| 14, S-14, 21, S-21, 31, S-31, 15, 22, 32, 42     | SR3 | VR3 | UM5 |  |  |
| R-1, 2KRO, 3KRO, 5KR, 5KRO, 3NC8, 5NO,           |     |     |     |  |  |
| 5NC8                                             | SR4 | VR4 |     |  |  |
| 3KR8, 3NW8                                       | SR5 |     |     |  |  |
| BULOVA                                           |     |     |     |  |  |
| 600, 601, 605, 610, M-701-C, 751                 | SR2 | VR2 | UM4 |  |  |
| 501                                              |     |     | UM2 |  |  |
| BUSH & LANE                                      |     |     |     |  |  |
| 10, 12                                           | SR3 | VR3 | UM5 |  |  |
| CABLE-NELSON                                     |     |     |     |  |  |
| D-4, 5                                           | SR2 | VR2 | UM4 |  |  |
| CANADIAN MARCONI                                 |     |     |     |  |  |
| 20, 21, 31, 61                                   | SR2 | VR2 | UM4 |  |  |
| 22, 23                                           | SR3 | VR3 | UM5 |  |  |
| CANADIAN WESTINGHOUSE                            |     |     |     |  |  |
| 71, 81, 101, 801                                 | SR3 | VR3 | UM5 |  |  |
| CAPEHART                                         |     |     |     |  |  |
| CK, A-6098                                       | SR1 |     | UM6 |  |  |
| CASE                                             |     |     |     |  |  |
| TRF, 80, 81                                      | SR4 | VR4 |     |  |  |
| CLARION                                          |     |     |     |  |  |
| 320                                              |     |     | UM2 |  |  |
| TC-20, TC-21, 40, 80, 81, 84, 85, 90, 91, 94,    |     |     |     |  |  |
| 25-94, 100, 220, 240, 241, 470, 472              | SR2 | VR2 | UM4 |  |  |
| 160, 25-160, 280, 260, 480, 490                  | SR1 |     | UM6 |  |  |
| 25, 51, 53, 55, AC 60, 25-60, 61, 70, 340        | SR3 | VR3 | UM5 |  |  |
| 73, T-397, C-495                                 |     |     | UM2 |  |  |
| CLARK                                            |     |     |     |  |  |
| TRF                                              | SR3 | VR3 |     |  |  |
| COLONIAL                                         |     |     |     |  |  |
| 33, 34, 35, 44, 46, 49, 51, 52, 62, C-595        |     |     |     |  |  |
| 600, 600-A, C-695                                | SR2 | VR2 | UM4 |  |  |
| 32 (AC), 36, 38, 114, 117, 37, 37-P, 39, 125,    |     |     |     |  |  |
| 41, 42, 47, 48, 50, 604                          | SR3 | VR3 | UM5 |  |  |
| 31 (AC)                                          | SR4 | VR4 |     |  |  |
| 601, 658                                         | SR6 | VR6 | UH3 |  |  |
| 603, 652, 653, 656                               | SR2 | VR2 | UH2 |  |  |
| 602                                              | SR1 |     | UH4 |  |  |
| COLUMBIA                                         |     |     |     |  |  |
| C-101                                            |     |     | UM2 |  |  |
| C-90                                             | SR1 |     | UM6 |  |  |
| 31, 33, 34 (Series C102), C80A, C80B             |     |     |     |  |  |
| (C800A)                                          | SR2 | VR2 | UM4 |  |  |
| 8, C-100                                         | SR3 | VR3 | UM5 |  |  |
| C-5 (205)                                        | SR4 | VR4 |     |  |  |
| CROSLEY                                          |     |     |     |  |  |
| 40S, 41S, 42S, 82S, 160, 170, 171, 175, 180      | SR1 |     | UM6 |  |  |
| 48, 53, 54, 57, 59, 72, 7H2, 122, 125, 133,      |     |     |     |  |  |
| 134, 134-1, 135, 137, 141, 167, 167 (2           |     |     |     |  |  |
| series), 168, 169, 179, 181, 184, Buddy,         |     |     |     |  |  |
| Dual Sixty, Buddy Boy, 6V2, 7V2, Mate,           |     |     |     |  |  |
| Classmate, Pal                                   | SR2 | VR2 | UM4 |  |  |
| 30S, 31S, 33S, 34S, 77, 84, 120, 123, 124,       |     |     |     |  |  |
| 124-1, 127, 127-1                                | SR3 | VR3 | UM5 |  |  |
| 32, 41, 41A, 42, 704, 704A, 706, 608, 610,       |     |     |     |  |  |
| 631, 704A, 705, 804                              | SR4 | VR4 |     |  |  |
| 154, 129, 129-1                                  | SR6 | VR6 | UH3 |  |  |
| 50 (61-6H2), (72-7H3), 80AW, 148, 150,           |     |     |     |  |  |
| 158, 5M3 Fiver, 5 VI Fiver                       | SR2 | VR2 | UH2 |  |  |
| 136-1                                            | SR1 |     | UH4 |  |  |

|                                                                                 |     |     |     |                                                                                                                                                                                                     |     |     |     |
|---------------------------------------------------------------------------------|-----|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|
| DAY FAN                                                                         |     |     |     | FORDSON                                                                                                                                                                                             |     |     |     |
| 5005                                                                            | SR3 | VR3 | UM5 | FR                                                                                                                                                                                                  | SR2 | VR2 | UM4 |
| 25, 26, 66, 67, 68, 77, Peck & Hill, 5090, 5091                                 | SR4 | VR4 |     | FW                                                                                                                                                                                                  | SR6 | VR6 | UH3 |
| DE FOREST                                                                       |     |     |     | FRANKLIN                                                                                                                                                                                            |     |     |     |
| 800, 810                                                                        | SR1 |     | UM6 | 94                                                                                                                                                                                                  | SR1 |     | UM6 |
| 400, 410, 740, 750                                                              | SR3 | VR3 | UM5 | FREED EISEMAN                                                                                                                                                                                       |     |     |     |
| DE FOREST-CROSLEY                                                               |     |     |     | 58-AC, 54, 56, 59, MB-5, 92-AC                                                                                                                                                                      |     |     | UM2 |
| 500, 501                                                                        | SR2 | VR2 | UM4 | 78, 79, 95                                                                                                                                                                                          | SR3 | VR3 | UM5 |
| 840, 850, 853                                                                   | SR3 | VR3 | UM5 | 55-NR-80                                                                                                                                                                                            | SR4 | VR4 |     |
| DEWALD                                                                          |     |     |     | NR-85                                                                                                                                                                                               | SR5 |     |     |
| AC447M, AC535, AC536, AC547, AC547A, 51                                         |     |     | UM2 | FRESHMAN                                                                                                                                                                                            |     |     |     |
| DELCO                                                                           |     |     |     | EARL 31, 32, 41                                                                                                                                                                                     | SR3 | VR3 | UM5 |
| RB-1, RC-1                                                                      | SR2 | VR2 | UM4 | G, K, M, 3Q Earl21, 22                                                                                                                                                                              | SR4 | VR4 |     |
| DETROLA                                                                         |     |     |     | H-N                                                                                                                                                                                                 | SR5 |     |     |
| 503                                                                             | SR2 | VR2 | UM4 | FROST-MINTON                                                                                                                                                                                        |     |     |     |
| ECHOPHONE                                                                       |     |     |     | 4PW                                                                                                                                                                                                 | SR1 |     | UM6 |
| 12, 38                                                                          |     |     | UM2 | GENERAL ELECTRIC                                                                                                                                                                                    |     |     |     |
| 35, 36                                                                          | SR1 |     | UM6 | T-12                                                                                                                                                                                                |     |     | UM2 |
| S-3, S-4, 4, 5, 14, 44, 40, 50, 60, 81                                          | SR2 | VR2 | UM4 | H-91, H-91R, K-106, K-106-P, K-80, K-80-X, K-85                                                                                                                                                     | SR1 |     | UM6 |
| F, S-5, 10, 15, 16, 17, 18, 20, 80, 90                                          | SR3 | VR3 | UM5 | K-50, K-50-P, K-60, K-65, K-60-P, K-65-P, K-54, K-54-P, K-55, K-58, K-52, K-53, K-53, K-63, M-63, K-64, K-66, K-66-M, M-65, M-68                                                                    | SR2 | VR2 | UM4 |
| EDISON                                                                          |     |     |     | J-70, J-75, S-22, S22-X, S-22 (2), J-80, J-85, S-42, S-132, K-62, KZ-62-P, H-32, H-72, J-72, J-82, J-86, J-83-A, J-87, J-87-A, H-31, H-51, H-71, T-41, K-107, K-105, K-78, K-79, K-88, K-88-X, J-83 | SR3 | VR3 | UM5 |
| Phono. Comb., C-4, R3, R4, R5, R6, R7, R8                                       |     |     |     | M-69                                                                                                                                                                                                | SR6 | VR6 | UH3 |
| C-4                                                                             | SR1 |     | UM6 | M-61, M-67, K-51-P                                                                                                                                                                                  | SR2 | VR2 | UH2 |
| Phono. Comb., C-1, R-1, Z-2, C-2                                                | SR5 |     |     | M-81, M-86, M-106, M-125, M-129, M-89                                                                                                                                                               | SR1 | VR1 | UH4 |
| EMERSON                                                                         |     |     |     | GENERAL MOTORS                                                                                                                                                                                      |     |     |     |
| C3, JS, L-AC-5, T, TS, AW55                                                     |     |     | UM2 | 110, 180, 190, 211, (S-9B), (S-9A), 251                                                                                                                                                             |     |     |     |
| B-AC-10                                                                         | SR1 |     | UM6 | (S-2-A), (S-2-B)                                                                                                                                                                                    | SR2 | VR2 | UM4 |
| J, LAC-4, M, AC-7, 26, 39, 59 (D-S5), L-755, 50-L, M-755, 50-M, S-755, S-50, 77 | SR2 | VR2 | UM4 | A                                                                                                                                                                                                   | SR3 | VR3 | UM5 |
| F, K-S, 65                                                                      | SR3 | VR3 | UM5 | GILFILAN                                                                                                                                                                                            |     |     |     |
| 71, 770, (AW7)                                                                  | SR6 | VR6 | UH3 | 25-M, 25-C                                                                                                                                                                                          |     |     | UM2 |
| 23 (4-B), 45, (6BD), 28 (5-J)                                                   | SR2 | VR2 | UH2 | GRAYBAR                                                                                                                                                                                             |     |     |     |
| EMPIRE ELECTRIC                                                                 |     |     |     | GB-4                                                                                                                                                                                                |     |     | UM2 |
| 500AC, 550AC                                                                    |     |     | UM2 | GB-500, GB-550                                                                                                                                                                                      |     | VR2 | UM4 |
| ERLA                                                                            |     |     |     | GT-7, GC, GB8, GB-8-A, GT-8, GC-14                                                                                                                                                                  |     |     |     |
| 30, 31, 32, AR3, 224                                                            | SR1 |     | UM6 | GB-989, GB-678, GB-100, GB-600, GB-700                                                                                                                                                              |     |     |     |
| 5700, 5721, 6300, 6315, 6317, 6323                                              | SR2 | VR2 | UM4 | GB-770, GB-9, GB-9                                                                                                                                                                                  | SR3 | VR3 |     |
| EVEREADY                                                                        |     |     |     | 18, 60, GB-330, GB-310, GB-320, GB-311                                                                                                                                                              | SR4 | VR4 |     |
| 42, 43, 44, 52, 53, 54                                                          | SR1 |     | UM6 | GREBE                                                                                                                                                                                               |     |     |     |
| 1, 2, 3, 31, 33, 34                                                             | SR4 | VR4 |     | 1, 2, M-1, 2, 3, 4, 50                                                                                                                                                                              | SR2 | VR2 | UM4 |
| FADA                                                                            |     |     |     | AH-1, SK4                                                                                                                                                                                           | SR3 | VR3 | UM5 |
| 25, 35C, 35B, 48, 49, 65 (KW), 74, 76, 83, 88, 89 (RA), 78, 79 (RC)             | SR1 |     | UM6 | 6AC, 7AC                                                                                                                                                                                            | SR4 | VR4 |     |
| 51, 53, 57 (KO-KOC), 55 (RG), 73, 85 (RE)                                       | SR2 | VR2 | UM4 | GRUNOW                                                                                                                                                                                              |     |     |     |
| 25, 35, 40, 41, 42, 44, 46, 47, 43 (KF), 45 (KU), 66 (KY), 761, 762, 764, 766   |     |     |     | 650, 651, 660, 661, 662, 750, 751, 752, 753, 7B                                                                                                                                                     | SR2 | VR2 | UH2 |
| 767                                                                             | SR3 | VR3 | UM5 | 1151, 1152                                                                                                                                                                                          | SR1 |     | UH4 |
| 16, 17, 20, 32, 50, 70                                                          | SR4 | VR4 |     | GULBRANSEN                                                                                                                                                                                          |     |     |     |
| 50, 70, 71, 75, 77                                                              | SR5 |     |     | 352                                                                                                                                                                                                 |     |     | UM2 |
| 141, 141Z (NA)                                                                  | SR2 | VR2 | UH2 | 20, 23, 322,                                                                                                                                                                                        | SR1 |     | UM6 |
| FAIRBANKS-MORSE                                                                 |     |     |     | 10, 13, 63, 73, 352, 872                                                                                                                                                                            | SR2 | VR2 | UM4 |
| 51, 52, 53                                                                      | SR2 | VR2 | UM4 | 161,                                                                                                                                                                                                | SR3 | VR3 | UM5 |
| 7014, 7040, 7052                                                                | SR2 | VR2 | UH2 | C                                                                                                                                                                                                   | SR4 | VR4 |     |
| FEDERAL                                                                         |     |     |     | HAMMERLUND                                                                                                                                                                                          |     |     |     |
| Type M                                                                          | SR3 | VR3 | UM5 | Comet Pro AVC                                                                                                                                                                                       | SR3 | VR3 | UM5 |
| FEDERATED                                                                       |     |     |     | HiQ30, HiQ31                                                                                                                                                                                        | SR6 | VR6 |     |
| Acratone 2, 5, Cathedral                                                        |     |     | UM2 | HIGH FREQUENCY LAB.                                                                                                                                                                                 |     |     |     |
| 7A, 13A, 24A, 39A, 43A, 86, 87, 38A                                             | SR2 | VR2 | UM4 | 1931                                                                                                                                                                                                | SR1 |     | UM6 |
| 14-A, 79, 80                                                                    | SR3 | VR3 |     |                                                                                                                                                                                                     |     |     |     |
| 136, 317, 319                                                                   | SR6 | VR6 | UH3 |                                                                                                                                                                                                     |     |     |     |
| 93, 94, 96, 97                                                                  | SR2 | VR2 | UH2 |                                                                                                                                                                                                     |     |     |     |

|                                                    |     |     |     |  |  |
|----------------------------------------------------|-----|-----|-----|--|--|
| HORN                                               |     |     |     |  |  |
| 102, 101B                                          | SR1 |     | UM6 |  |  |
| 15, 15M, 20                                        | SR2 | VR2 | UM4 |  |  |
| 59, 69, 70, 71, 79, 99, 109, 110,                  | SR3 | VR3 | UM5 |  |  |
| HOWARD                                             |     |     |     |  |  |
| D-4                                                |     |     | UM2 |  |  |
| T10, 20, 25, 30                                    | SR2 | VR2 | UM4 |  |  |
| A, H, 35, 40, 45, 60                               | SR3 | VR3 | UM5 |  |  |
| Diamond 8 (171), Diamond 8 (245), SH-245           | SR4 | VR4 |     |  |  |
| X-2, X-3, X-8, Q                                   | SR6 | VR6 | UH3 |  |  |
| Z-4                                                | SR1 |     | UH4 |  |  |
| INTERNATIONAL                                      |     |     |     |  |  |
| JS, CS, TS, T, Royal M, U-40 Regal                 |     |     | UM2 |  |  |
| AW-55,                                             | SR2 | VR2 | UM4 |  |  |
| KS                                                 | SR3 | VR3 | UM5 |  |  |
| INTEROCEAN                                         |     |     |     |  |  |
| 520, 521, 530, 531, 533                            | SR1 |     | UM6 |  |  |
| JACKSON BELL                                       |     |     |     |  |  |
| 25, 25A, 25U, 26, 26-SBL, 84, 25AV, 25UV           |     |     | UM2 |  |  |
| 62, 87                                             | SR2 | VR2 | UM4 |  |  |
| 68, 79, 89, 89-A, 96                               | SR3 | VR3 | UM5 |  |  |
| 59                                                 | SR4 | VR4 |     |  |  |
| JESSE FRENCH                                       |     |     |     |  |  |
| H-2 Jr.                                            |     |     | UM2 |  |  |
| Junior Model H-1                                   | SR2 | VR2 | UM4 |  |  |
| 5X, 6X, 7X, U-1                                    | SR3 | VR3 | UM5 |  |  |
| 8 tube AC, 5-093                                   | SR4 | VR4 |     |  |  |
| KELLOG                                             |     |     |     |  |  |
| 523, 526                                           | SR3 | VR3 | UM5 |  |  |
| 524, 525, 527, 528                                 | SR5 |     |     |  |  |
| KELLER-FULLER                                      |     |     |     |  |  |
| F, F12, 40, 50                                     |     |     | UM2 |  |  |
| KENNEDY                                            |     |     |     |  |  |
| 63A, 63, 50, 563A                                  |     |     | UM2 |  |  |
| 42                                                 | SR2 | VR2 | UM4 |  |  |
| 10, 20, 26, 30, 32, 52, 56                         | SR3 | VR3 | UM5 |  |  |
| KING                                               |     |     |     |  |  |
| 101, 218                                           | SR3 | VR3 | UM5 |  |  |
| 97                                                 | SR4 | VR4 |     |  |  |
| KNIGHT                                             |     |     |     |  |  |
| 6 tube                                             | SR2 | VR2 | UM4 |  |  |
| 7 tube superhet. 1932, SG-8, 9 tube superhet. 1932 | SR3 | VR3 | UM5 |  |  |
| KOLSTER                                            |     |     |     |  |  |
| K-140, K-142, K-90, K-92                           | SR1 |     | UM6 |  |  |
| B-15, B-16, 43, K-60, K-62, K-70, K-72, K-80       |     |     |     |  |  |
| K-82, K-110, K-112, K-120, K-122, K-130            |     |     |     |  |  |
| K-132                                              | SR3 | VR3 | UM5 |  |  |
| B-10, 6F, J, K, R, 6L, K-20, K-22, K-25, K-27      |     |     |     |  |  |
| K-37, 42                                           | SR4 | VR4 |     |  |  |
| K-21, K-23, K-24                                   | SR5 |     |     |  |  |
| LAFAYETTE                                          |     |     |     |  |  |
| L1, L2, L3, L4, 20                                 | SR1 |     | UM6 |  |  |
| Great Duo-symphonic, Duo-symphonic Jr.             |     |     |     |  |  |
| 1931, 10, L16, L17, L18, L19                       | SR3 | VR3 | UM5 |  |  |
| Duo-symphonic                                      | SR4 | VR4 |     |  |  |
| LANG                                               |     |     |     |  |  |
| BA-5P                                              |     |     | UM2 |  |  |
| LEWOL                                              |     |     |     |  |  |
| 63                                                 | SR6 | VR6 | UH3 |  |  |
| McMILLAN                                           |     |     |     |  |  |
| 8 tube AC                                          | SR4 | VR4 |     |  |  |
| MAJESTIC                                           |     |     |     |  |  |
| 370 Series, 460                                    |     |     | UM2 |  |  |
| 21, 22, 23, 251, 253, 254, 251-B, 253-B, 254-B     |     |     |     |  |  |
| 351, 353, 61, 62, 163, 90A, 91, 92, 181, 90        |     |     |     |  |  |
| 93, 101, 102, 103, 211, 214, 215, 344, 363         | SR1 |     | UM6 |  |  |
| 151, 153, 154, 155, 156, 56, 57, 58, 371           |     |     |     |  |  |
| 373                                                | SR2 | VR2 | UM4 |  |  |
| 31, 50, 51, 52, 85, 86, 998 (800), 130, 131        |     |     |     |  |  |
| 132, 233, 201, 203, 204, 291, 293, 294, 311        |     |     |     |  |  |
| 314, 315, 331, 336, 77, 393, 460, 461              |     |     |     |  |  |
| 463                                                | SR3 | VR3 | UM5 |  |  |
| 71, 72                                             | SR4 | VR4 |     |  |  |
| 180, 181                                           | SR5 |     |     |  |  |
| MARTE & SHAMROCK                                   |     |     |     |  |  |
| 2R-10T, 28, 29                                     | SR4 | VR4 |     |  |  |
| MOHAWK (All American)                              |     |     |     |  |  |
| SA-130, 90 Lyric                                   | SR1 |     | UM6 |  |  |
| D, F, S-63, SA-65                                  | SR2 | VR2 | UM4 |  |  |
| H, S-6, S-7, S-8, S-10, S-80, SA-90, 11, 19        |     |     |     |  |  |
| 29, 39, 69, SW-80, 90, SA-91, 94, 96, 175          | SR3 | VR3 | UM5 |  |  |
| 60, 61, 62, 65, 66, 80, 83, 84, 86, 88             | SR4 | VR4 |     |  |  |
| MONTGOMERY WARD                                    |     |     |     |  |  |
| 62-9, 62-2, 62-1, 62-1838, 62-PC-64, 62-22, 62-30  |     |     |     |  |  |
| 62-020, 62-38, 62-40, 62-50, 3067, 3065,           |     |     |     |  |  |
| 3037, 3035, 2955, 2897, 2895, 2827, 2822           | SR6 | VR6 |     |  |  |
| 27W Chassis, Collegiate, 62-PC-43                  |     |     | UM2 |  |  |
| NORCO                                              |     |     |     |  |  |
| 4 Comb.                                            |     |     | UM2 |  |  |
| Dual wave, 4-super                                 | SR2 | VR2 | UM4 |  |  |
| NORDEN HAUCK                                       |     |     |     |  |  |
| Super-D-5                                          | SR2 | VR2 | UM4 |  |  |
| 10, 30                                             | SR5 |     |     |  |  |
| NORTHERN ELECTRIC                                  |     |     |     |  |  |
| Banff, Tucern                                      | SR3 | VR3 | UM5 |  |  |
| OZARKA                                             |     |     |     |  |  |
| 91, Viking 91, Viking 92 (AC), 93A, 93B            |     |     |     |  |  |
| 94                                                 | SR3 | VR3 | UM5 |  |  |
| PHILCO                                             |     |     |     |  |  |
| 95, 96, 96A, 296, 296A, 111, 112, 112A             | SR1 |     | UM6 |  |  |
| 50, 50A, 51, 52                                    | SR2 | VR2 | UM4 |  |  |
| 65, 70, 70A, 76, 77, 90, 90A, 470, 490             | SR3 | VR3 | UM5 |  |  |
| 5, 8, 20, 20A, 82, 86, 87, 511, Baby Grand         | SR4 | VR4 |     |  |  |
| 43, 71, 84                                         | SR6 | VR6 | UH3 |  |  |
| 19, 89, 44, 45, 57, 58, 59, 60, 66, 80, 81         |     |     |     |  |  |
| 118, 144                                           | SR2 | VR2 | UH2 |  |  |
| 14, 91, 15, 16 (Code 122), 16 (Code 125)           |     |     |     |  |  |
| 16 (Code 126), 17 (Code 122), 18, 91               |     |     |     |  |  |
| 200                                                | SR1 |     | UH4 |  |  |
| PLAZA                                              |     |     |     |  |  |
| 711 Super, 711 Jr.                                 |     |     | UM2 |  |  |
| PILOT                                              |     |     |     |  |  |
| 5 tube Junior, AC Converter, 1010                  | SR2 | VR2 | UM4 |  |  |
| 40176, 7, 8, 81, 84, 39, 10 tube AC Super          | SR3 | VR3 | UM5 |  |  |
| RADIOTROPE                                         |     |     |     |  |  |
| 74-R                                               |     |     | UM2 |  |  |
| G, S-2, 62, 64                                     | SR3 | VR3 | UM5 |  |  |
| RADOLEK                                            |     |     |     |  |  |
| 57 Super, 5T De Luxe, Little Leader                |     |     | UM2 |  |  |
| 956, 958, 10, 956, 10962, 10963, 10964             | SR2 | VR2 | UM4 |  |  |
| 10966, 10970                                       | SR6 | VR6 | UH3 |  |  |
| RCA                                                |     |     |     |  |  |
| (9 tube) General Purpose AW, 140, 141, 240         |     |     |     |  |  |
| 140D, 141                                          | SR1 |     | UM6 |  |  |
| R-5-X                                              |     |     | UM2 |  |  |
| R-28, R28-BW, R-28-P, R-37, R-38, R-37-P           |     |     |     |  |  |
| R-38-P, R-54, RE-40, RE-40-P, RAD-44               |     |     |     |  |  |
| RAD-46, 210, 310, 110, 111, 115, 120, 124          |     |     |     |  |  |
| 121, 122, 220, 222, 221, Duo-320, 321              | SR2 | VR2 | UM4 |  |  |
| R-50, RAE-59, R-55, RAD-66, R-70, R-70-N           |     |     |     |  |  |
| R-71, R72, R-73 (47), R-73-A, R-75 (47)            |     |     |     |  |  |
| R-75-A, RAD-80, RAD-82, RAD-86, R-15               |     |     |     |  |  |
| RE-17, R-24-A (2A5), R-35, R-39, RE-57             |     |     |     |  |  |
| RAD-48, RE-80, R-90, R-90-P, R-4, R-6, R-7         |     |     |     |  |  |
| R-7-A, RE-16-A, R-8, R-12, R-9, R-10, R-11         |     |     |     |  |  |
| R21, RE-18, RE-18-A, 260, 261, 330, 331            |     |     |     |  |  |
| 340, 340-E                                         | SR3 | VR3 | UM5 |  |  |

## R. C. A. (continued)

|                                          |     |     |     |
|------------------------------------------|-----|-----|-----|
| RAD-60, RAD-13, RAD-17, RAD-51, RAD-18   |     |     |     |
| R-32, RAD-33, 9-16, 7-26, 7-11           | SR4 | VR4 |     |
| 64, RAD-67, RAD-41, 47, 67, 9-18, 9-54   |     |     |     |
| 9-56                                     | SR5 |     |     |
| 322                                      | SR6 | VR6 | UH3 |
| R-28-P (AC), 118, 211, 128, 224, ACR-136 | SR2 | VR2 | UH2 |
| 143, 242, 262, 281, 381, 341             | SR1 |     | UH4 |

## REMLER

|                        |     |     |     |
|------------------------|-----|-----|-----|
| HS-3, 10-3, 21,        |     |     | UM2 |
| 10, 11, 14, 21-3, 21-4 | SR2 | VR2 | UM4 |
| 15, 17, 19             | SR3 | VR3 | UM5 |
| 10-4                   | SR2 | VR2 | UH2 |

## REPUBLIC

|      |     |     |     |
|------|-----|-----|-----|
| CS-6 | SR6 | VR6 | UH3 |
|------|-----|-----|-----|

## ROGERS

|     |     |     |     |
|-----|-----|-----|-----|
| 600 | SR3 | VR3 | UM5 |
|-----|-----|-----|-----|

## SENTINEL

|                                              |     |     |     |
|----------------------------------------------|-----|-----|-----|
| 1020-A, 1030-A, 1040                         | SR1 |     | UM6 |
| (5 tube) Superhet., (6 tube) Superhet., 513  |     |     |     |
| 622, 623, 634, 635, 5700, 5721, 6315, 6317   |     |     |     |
| 6321                                         | SR2 | VR2 | UM4 |
| 8, 9, 11, 12, 15, 16, 108-A, 108-B, 109, 111 |     |     |     |
| 114, 118, 125                                | SR3 | VR3 | UM5 |

## SILVER-MARSHALL

|                                               |     |     |     |
|-----------------------------------------------|-----|-----|-----|
| Q DeLuxe, V, 36-A, 37, 38, 39, 782, 726, 728  |     |     |     |
| SW, 4801, 4802                                | SR1 |     | UM6 |
| 737                                           | SR2 | VR2 | UM4 |
| D & E, 30, 30B, 60B, 70B, 90B, 34-A, 35-A, 43 |     |     |     |
| 60, 95, 63, 724                               | SR3 | VR3 | UM5 |

## SILVERTONE

|                                              |     |     |     |
|----------------------------------------------|-----|-----|-----|
| 1640, 71, 7043, 7044                         | SR1 |     | UM6 |
| 1082, 1083, 1252, 1250, 1370, 1390, 1400     |     |     |     |
| 1402, 1404, 1406, 1590, 1592, 1802-A         |     |     |     |
| 1803-A, 1807, 7048, 7049                     | SR2 | VR2 | UM4 |
| 53, 54, 60, 56, 1150, 1170, 1152, 1174, 1420 |     |     |     |
| 1320, 1322, 1324, 1580, 1582, 1584, 1708     | SR3 | VR3 | UM5 |
| 49, 50, 51, 58                               | SR4 | VR4 |     |
| 1708-A, 7118, 1709, 1729, 1760 (2), 1804,    |     |     |     |
| 1805, 1820, 1826, 1806, 1823, 1829           | SR6 | VR6 | UH3 |
| 1720, 1725, 1765, 1721, 1722, 1732, 1726-X   |     |     |     |
| 1821, 1827, 1828                             | SR1 |     | UH4 |

## SIMPLEX

|                 |     |     |     |
|-----------------|-----|-----|-----|
| K               |     |     | UM2 |
| W (all wave), X | SR6 | VR6 | UH3 |

## SLAGLE

|                  |     |     |  |
|------------------|-----|-----|--|
| 9                | SR4 | VR4 |  |
| 20, 25, 30, AP40 | SR5 |     |  |

## SONORA

|        |     |     |     |
|--------|-----|-----|-----|
| 74     | SR2 | VR2 | UM4 |
| 64, 70 | SR3 | VR3 | UM5 |

## SPARTON

|                                              |     |     |     |
|----------------------------------------------|-----|-----|-----|
| 60 SW Conv                                   |     |     | UM2 |
| 16AW, 18, 25, 26, 30, 26AW, 74, 134, 136     | SR1 |     | UM3 |
| 5, 9, 12                                     | SR2 | VR2 | UM4 |
| 9A, 410, 420, 9-X, 14-A, 15-X, 13, 14, 620-X |     |     |     |
| 10, 14, 15, 16, 45, 56, 75-A, 475-A, 478-A   | SR3 | VR3 | UM5 |
| 35, 89-A, 101, 103, 109, 110, 111, 870, 301  |     |     |     |
| 740, 750                                     | SR5 |     |     |
| 78, 80, 83, 84, 85X, 86X                     | SR6 | VR6 | UH3 |
| 67, 68, 691, 71, 71-B, 72                    | SR2 | VR2 | UH2 |
| 104                                          | SR1 |     | UH4 |

## STERLING MFG. CO.

|    |  |  |     |
|----|--|--|-----|
| VA |  |  | UM2 |
|----|--|--|-----|

## STEINITE

|                                     |     |     |     |
|-------------------------------------|-----|-----|-----|
| 600, 605, 630, 635                  | SR1 |     | UM6 |
| 40-C, 60-C, 120-C, 70, 80, 421, 425 | SR3 | VR3 |     |
| 40-A, 45-A, 40, 261, 262            | SR4 | VR4 | UM5 |
| 50-A, 120-A                         | SR5 |     |     |

## STEWART-WARNER

|                                        |     |     |     |
|----------------------------------------|-----|-----|-----|
| R-110, R-120 (1201), (1209), 950       | SR1 |     | UM6 |
| R-101-A, R-101-B, 103                  |     |     | UM2 |
| R-102-A, R-102-B, R-102-E, R-104, 1090 |     |     |     |
| 1099                                   | SR2 | VR2 | UM4 |
| R-100-A, 105, R-106, 900               | SR3 | VR3 | UM5 |
| 801                                    | SR4 | VR4 |     |
| R-116, 1261, 1269                      | SR6 | VR6 | UH3 |
| 1171, 1172, (R-117), 1271, 1279        | SR2 | VR2 | UH2 |

## STROMBERG-CARLSON

|                                                |     |     |     |
|------------------------------------------------|-----|-----|-----|
| 19, 20, 90, 22, 29, 37, 38, 39, 40, 48, 49, 50 |     |     |     |
| 51, 52, 54, 55, 56                             | SR1 |     | UM6 |
| 10, 11, 25, 26, 641, 642, 652, 654             | SR3 | VR3 | UM5 |
| 638-A, 635, 636                                | SR4 | VR4 |     |
| 60, 64                                         | SR6 | VR6 | UH3 |
| 68                                             | SR1 |     | UH4 |

## STUDEBAKER

|     |     |     |     |
|-----|-----|-----|-----|
| 31, | SR2 | VR2 | UM4 |
| 42  | SR3 | VR3 | UM5 |

## TEMPLE

|                              |     |     |     |
|------------------------------|-----|-----|-----|
| 860, 861, 880, 881, 890, 891 | SR3 | VR3 | UM5 |
|------------------------------|-----|-----|-----|

## WELLS-GARDNER

|                                        |     |     |     |
|----------------------------------------|-----|-----|-----|
| 052 Series, 352 Series                 |     |     | UM2 |
| 02-A, 02-AA, 22, 82, 502               | SR1 |     | UM6 |
| 00B, 40, 40-A, 50, 60, 63, 50, 72, 572 | SR3 | VR3 | UM5 |
| C, CG                                  | SR4 | VR4 |     |
| 07-A, 7-D                              | SR6 | VR6 | UH3 |
| OC, 2B                                 | SR1 |     | UH4 |

## U. S. RADIO TEL. CORP.

|                                         |  |  |     |
|-----------------------------------------|--|--|-----|
| 25 Series (500 Chassis 3040, 3056), 507 |  |  |     |
| Chassis                                 |  |  | UM2 |

## WESTINGHOUSE

|                                       |     |     |     |
|---------------------------------------|-----|-----|-----|
| WR-30, WR-31                          | SR1 |     | UM6 |
| WR-28, WR-14-CR, WR-29, WR-35, WR-36  |     |     |     |
| WR-37, WR-14-CR                       | SR2 | VR2 | UM4 |
| WR-21, WR-19, WR-22, WR-5, WR-6, WR-7 |     |     |     |
| WR-24, WR-4, WR-23, WR-17, WR-10      |     |     |     |
| WR-10-A, WR-13-A, WR-18, WR-12        |     |     |     |
| WR-15-A, WR-15, WR-38, WR-39          | SR3 | VR3 | UM5 |
| WR-49                                 | SR6 | VR6 | UH3 |
| WR-27, WR48, WR46                     | SR2 | VR2 | UH2 |
| WR-45                                 | SR1 |     | UH4 |

## WHOLESALE RADIO SERVICE

|     |     |  |     |
|-----|-----|--|-----|
| L-1 | SR1 |  | UM6 |
|-----|-----|--|-----|

## WILCOX GAY

|                                        |     |     |     |
|----------------------------------------|-----|-----|-----|
| 2-T-S                                  |     |     | UM2 |
| 4DB10, 4D10                            | SR1 |     | UM6 |
| 3SB5, 3V6, 3VA6, 3VB6, 4C5, 4CA5, 4CB5 |     |     |     |
| 4CD5, 4E6                              | SR2 | VR2 | UH2 |

## WURLITZER

|     |     |     |     |
|-----|-----|-----|-----|
| 450 | SR2 | VR2 | UM4 |
| 470 | SR6 | VR6 | UH3 |

## ZENITH

|                                              |     |     |     |
|----------------------------------------------|-----|-----|-----|
| 52, 53, 54, 55, 60, 61, 64, 62, 67, 602, 613 |     |     |     |
| 622, 642, 672, 71, 72, 73, 77, 712, 722, 732 |     |     |     |
| 777, 91, 92, 103, 410, 411, 420, 430, 440    |     |     |     |
| 760, 765, 767, 475, 476, 770, 476A, 775      |     |     |     |
| 780, 770-B, 775-B, 476-B, 715, 755           | SR1 |     | UM6 |
| LP                                           | SR2 | VR2 | UM4 |
| AH, CH, RH, Super 8 series, 10, 11, 12       |     |     |     |
| 102, 112, 122, 230, 240, 244, 245, 500, 600  |     |     |     |
| 503, 606, 501, 604, 514, 610, 515, 616,      |     |     |     |
| 516, 618, 711, 712, 750, 705, 706, 77        | SR3 | VR3 | UM5 |
| 33, 34, 35, 35A, 342, 352, 352A, 362, 33X    |     |     |     |
| 362X, 41                                     | SR4 | VR4 |     |
| 34P, 342P, 35P, 35AP, 352P, 352AP, 35PX      |     |     |     |
| 35APX, 352PX, 352APX, 37A, 39, 39A           |     |     |     |
| 40A, 392, 392A, 42                           | SR5 |     |     |
| 825, 827, 829, 870                           | SR6 | VR6 | UH3 |
| 805, 845, 806, 807, 5847, 850, 808, 809, 860 |     |     |     |
| 861, 5607                                    | SR2 | VR2 | UH2 |
| 835, 880                                     | SR1 |     | UH4 |