COMPLETE INDEX

FOR

VOLUMES XVI, XVII, XVIII, XIX AND XX

AND

HOW IT WORKS

FOR

VOLUME XX

JOHN F. RIDER PUBLISHER, INC.

480 Canal Street New York 13, N. Y.

TABLE OF CONTENTS

Printed in the United States of America

IMPEDANCE MATCHING
OF RECEIVERS TO TRANSMISSION LINES

By John F. Rider

QUITE frequently communication receivers have input impedance ratings which do not properly match the impedance of the transmission line which feeds it. Surprisingly enough such mismatch can very greatly affect the sensitivity of the receiver, so much so that we have, on more than one occasion, noted great dissatisfaction expressed by the owner of the receiver concerning its performance. The receiver was condemned, whereas in truth, there was nothing at all wrong with the receiver; rather it was a simple case of incorrect use of matching the line to the receiver.

Increase in sensitivity, amounting to as much as 18 db, has been noted when such a receiver was properly matched to its transmission line. The loss of this amount of signal strength in a communication system is sufficient in every case to very materially influence the utility of the device. The matching method to be described is intended to remedy such conditions.

Matching Considerations

It must, of course, be understood that any impedance-matching arrangement, which is based upon a match at a specific frequency such as shall be described, is most effective at the frequency used in the equation. However, it must also be understood that a certain latitude in operation prevails and while the matching may be done at one frequency, it will be found effective over a range of frequencies. Thus, if the center frequency of a band is selected, the matching system will be found to be effective over that band, provided that the band is not too broad, although the greatest effectiveness will be found at the frequency for which the match is planned.

Range of Frequencies

The range of frequencies over which an improvement will be noted with such a match is a variable depending a great deal upon the operating parameters employed. In amateur communication receivers, the design of the circuitry is such that if, for example, the 10-meter band is selected and an impedance match is planned at the midfrequency, or around 28.8 Mc, an improvement will be noted throughout the range of from 28 to 29.7 Mc. Naturally, the improvement will decrease both sides of the match frequency, becoming least at the extremes of the band. This means that the choice of the matching frequency, relative to the portion of the band over which the receiver will be operated most in any one location, is an important consideration. This is so because the less the bandwidth over which the receiver is expected to perform, the less will be the loss when matching is accomplished at the midpoint or center frequency of that band.

For example, let us assume that, for one amateur station, the normal frequency of operation extends from 28 to 29 Mc and, in another station, it extends from 28 to 29.7 Mc. Let us further assume that the receiver in each case is matched to the transmission line at the center frequency of each band, which for the first case is 28.5 Mc and for the second case is about 28.8 Mc. If both stations are receiving a 28-Mc signal, a lower loss will occur with the station that is matched to 28.5 Mc. Admittedly, the difference is not too great but since communication operations demand the utmost in signal strength, such conditions warrant more than just casual thought.

Quarter-Wave Line

The basis of matching is the use of the impedance-transforming properties of a quarter-wave line which is shorted at one end and has the other end open. The open end joins the higher impedance of the two sources to be matched, which, in the example to be illustrated, is the receiver. Somewhere along the line between the open end and the shorted end is the point where the transmission line or lower impedance is connected as shown in Fig. 1. This point is dependent upon the ratio of the lower to higher impedance and hence upon the ratio of the line impedance to receiver impedance. Regardless of the characteristic impedance of a line, the open end of the shorted quarter-wave line will present a very high impedance. Therefore, the open end of a shorted quarter-wave line may be connected across a point without loading the circuit at that point. By tapping a feed point onto such a shorted quarter-wave line at the appropriate place along its length, the system can be employed to make one end look like the impedance of the load and the other end look like the impedance of the source, thus making the source devices see the proper impedances at the respective ends.

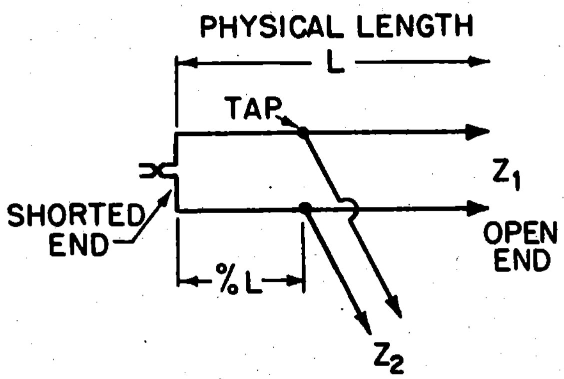


Fig. 1.—Diagram of quarter-wave stub used for impedance matching transmission line to receiver. One end of the stub is shorted and the other end open. The lower impedance to be matched is the one that is connected to the tap along the stub. The higher impedance is connected to the open end. Calculations as to the length *L* and the tap are included in the text.

Impedance Calculations

The determination of the impedance and physical length of the quarter-wave section and also the proper tapping point is simple if certain definite steps are followed. The impedance of the matching section is determined by the following equation

$$Z_s = \sqrt{Z_1 \times Z_2}$$

where Z_s is the impedance of the quarter-wave section, Z_1 is the impedance of the antenna transmission line, and Z_2 is the impedance of the load, which in this case is the receiver.

Let us take two typical cases. The first of these calls for the matching of a 52-ohm line to a 300-ohm receiver. Substituting these numbers into the equation above, as follows,

$$Z_s = \sqrt{52 \times 300}$$

results in the approximate answer of 125 ohms. This quotient indicates that the characteristic impedance of the line which will be used for the quarter-wave section must be 125 ohms. No such line is available commercially so that a compromise must be made by using that commercial line which most closely approximates 125 ohms. Such a line is the conventional 150-ohm line used in television systems.

Free-Space Length

Assuming that a line with a characteristic impedance of 150 ohms will be used one-quarter wave long, the next consideration is the determination of the free-space length of this line. In order to compute this length, it is necessary to select the frequency at which the match will be made. Let us assume that operation will be carried on in the 10-meter band and that since, in the majority of cases, operation is limited to the band embracing 28 to 29 Mc, a satisfactory midfrequency is 28.5 Mc, so we shall use 28.5 Mc as the base frequency. The equation which gives the result in inches for the free-space length of this line is

$$\frac{2950}{f_o}$$

where f_o is the base frequency. Substituting our figures, the equation reads

$$\frac{2950}{28.5}$$

Thus the free-space length of this line is 103.5 inches. However, the determination of the free-space length of the line is only the first step. We must now determine the physical length based upon the velocity of propagation along the line. According to Table I relative to the commonplace transmission lines available on the open market, the velocity of propagation of the 150-ohm twin lead is 77 per cent, which means that the free-space length must be multiplied by 0.77 in order to arrive at the final or physical length of the line.

TABLE I

Line	*Velocity of Propagation*
75-ohm twin	68%
150-ohm twin	77%
300-ohm twin	82%
72-ohm coaxial (RG59U)	66%
95-ohm twin shielded	66%

This length is found to be 80 inches which means that the quarter-wave matching section made of 150-ohm twin lead will be 80 inches long. One end will remain open and the other end will be shorted by exposing a small piece of each of the conductors and soldering them together. The minimum amount necessary to enable soldering should be exposed.

Tap Location

The location of the tap where the transmission line will be connected is determined from Table II. Since Z_2 in our example is 52 ohms and Z_1 is 300 ohms, the ratio of Z_2/Z_1 is 17.3. As can be seen, this ratio lies between 0.15 and 0.20 on Table II or between 25 and 30 per cent in from the shorted end. An approximation corresponding to midway between these two limits results in the tapping point being about 27.5 per cent from the shorted end. Since the line is 80 inches long, 27.5 per cent amounts to 22 inches, and this is the location of the tap from the shorted end.

TABLE II

STUB CONNECTIONS FOR SPECIFIC IMPEDANCE RATIOS

$\frac{Z_2}{Z_1}$	% of L from Shorted End	$\frac{Z_2}{Z_1}$	% of L from Shorted End
0.05	14	0.55	53
0.10	20	0.60	56
0.15	25	0.65	59
0.20	30	0.70	63
0.25	34	0.75	67
0.30	37	0.80	70
0.35	41	0.85	75
0.40	44	0.90	80
0.45	47	0.95	90
0.50	50	1.00	100

where: Z_1 is the larger of the two impedances
Z_2 is the smaller impedance.

Courtesy Crosley Div. Avco Mfg. Corp.

Let us take another example in which the transmission-line impedance is 104 ohms, such as would be the case if two 52-ohm coaxial lines were used in parallel with the shields joined. The solution is as follows

$$\text{Stub impedance } Z_s = \sqrt{104 \times 300} = 176 \text{ ohms.}$$

Closest to this value is the 150-ohm line.

Free-space length for the midfrequency of the chosen band is

$$\frac{2950}{28.5} = 103.5 \text{ inches.}$$

$$\text{Physical length} = 103.5 \times 0.77 = 80 \text{ inches.}$$

The location of the tap is computed as follows

$$\frac{Z_2}{Z_1} = \frac{104}{300} = 34.7$$

Percentage of L from shorted end (see Table II) is, therefore, approximately 41 per cent. Thus the tap length is

$$80 \times 0.41 = 32.8 \text{ inches.}$$

It is, of course, possible that the transmission line may have a higher impedance than the receiver. The solution of the matching-section length is carried out in exactly the same way as before except that the connections are inverted, that is, the open end of the line would be connected to the higher impedance, which is the transmission line, and the tapped point along the line would be connected to the receiver. For the sake of illustration, the process of solving a typical case, such as a 600-ohm line and a 300-ohm receiver, is to use the 300-ohm impedance as Z_2 and the 600-ohm impedance as Z_1, in which case the location of the tap will be midway along the length of the line. Such a match would require the use of a 425-ohm ***open line*** because commercial transmission lines approximating this impedance are not available. As can be seen, the application of such matching stubs is much more convenient when the transmission-line impedance is less than that of the receiver, if for no other reason than that commercial lines approximating the required impedances are more easily available. As a matter of fact, in the case just given where the transmission line is of a higher impedance than the receiver, the use of a 300-ohm twin lead in place of the 425-ohm open line would afford some benefit, although not as much as if the proper line were used. At any rate, it would be preferable to no matching section at all.

The early reference to the possible gain in signal strength may seem incongruous with respect to the losses due to impedance mismatch, yet it has been found in virtually every case that proper match of this type affords very substantial improvements. The possible reason for this is that the rating of receiver input systems is nominal and that, in many cases, the actual input impedance exceeds the nominal rating by an appreciable magnitude so that the match attained in this fashion is more beneficial than would be anticipated from a 4:1 or 5:1 mismatch in impedance.

Band Changing

It is, of course, natural to consider the matter of behavior of the bands other than the 10-meter band for which the impedance match is used. What is the action when the receiver, which is matched on 10 meters, is used on another band? Obviously a quarter-wave section on 10 meters becomes an eighth-wave section on 20 meters, and the match no longer prevails. As a matter of fact, it would be detrimental to operation. Thus, the individual who employs a communication receiver on various bands is faced with the problem of providing the number of such matching stubs between the transmission line and the receiver, each of which may be switch-controlled so as to place the proper line into the circuit. In the event that different antennas and different transmission lines are used for operation in the different joints, individual matching sections can be constructed along the lines described for each of the joints. The open ends of these stubs may all be connected at the receiver end without doing too much harm, provided that the receiver presents the higher of the two impedances involved in each of the stub calculations.

COUPLED CIRCUITS

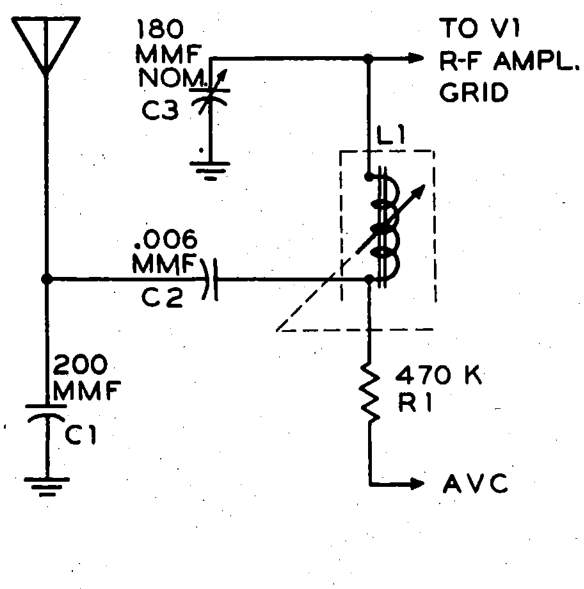
By Willard Moody

COMMUNICATIONS and standard commercial receivers use a variety of coupling methods for transferring energy from one part of a circuit to another. This energy may be in the form of a modulated or unmodulated r-f signal. It may, in some cases, be an i-f or an audio signal.

Various coupled circuits used in receivers shown schematically in Volume XX will be illustrated and described.

Motorola 309

The r-f input circuit of this set appears in Fig. 1. At first glance, the circuit appears to be quite simple.

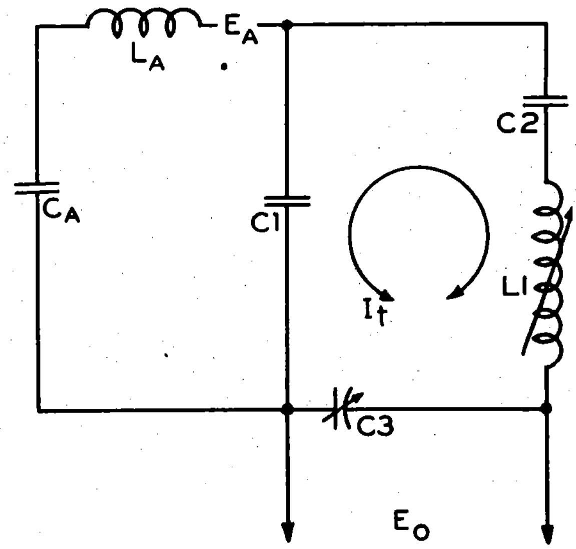


After Motorola

Fig. 1.—R-f input circuit of Motorola 309 auto radio.

Actually, there is more to it than meets the eye upon quick inspection. A careful study reveals some interesting aspects.

Suppose that, to simplify the analysis, we redraw the circuit as shown in Fig. 2. The capacitance C_A, for the sake of simplicity, may be assumed to be the lumped antenna capacitance, and the inductance L_A is the lumped antenna inductance.



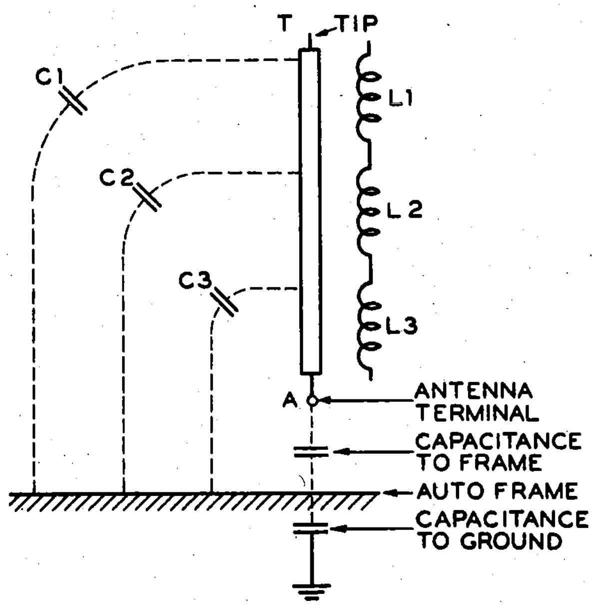
Courtesy Motorola

Fig. 2.—Equivalent and simplified circuit of Motorola 309 input arrangement.

How did we arrive at these assumptions? Consider that the antenna is a relatively short vertical wire or rod, much less than a half-wave long at broadcast frequencies. Then we have the equivalent antenna circuit shown in Fig. 3. The automobile frame is equivalent to a counterpoise and has such a large capacitance to earth or ground that we may consider the automobile metal body and frame to be at ground potential. As a vertical wire is used, its inductance will be the principal factor and its capacitance to ground will be relatively small. It will be a low-capacitance type antenna.

As we move along the antenna from the terminal *A* to the tip *T* we find that each elemental section of the antenna conductor has the property of inductance. We have shown *L1, L2,* and *L3,* as the series inductances. Every inch of the conductor, or even smaller linear parts, has an *L* value. If we add *L1* + *L2* + *L3,* we get a lumped or sum inductance value which we have called L_A in Fig. 2.

Similarly, every inch of the conductor or point on it has a capacitance with respect to the frame of the car and, therefore, to earth or ground, since the car or



Courtesy Motorola

Fig. 3.—Diagram of vertical antenna circuit used with auto radio.

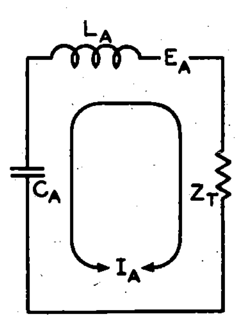
automobile frame is virtually at ground potential. As we move from terminal *A* to the tip of the antenna, the capacitance of a point on the antenna with respect to ground decreases, since the distance between the point and ground has also increased. *C3* is greater than *C2; C2* is greater than *C1*, etc. Consequently, we can consider that the main component of capacitance will be *C3* and the return path for current flow at the end of the antenna will be *C1*. This end value is shown as C_A in Fig. 2, and it should not be confused with *C1* in Fig. 2 or Fig. 1.

As *C1* is very large, comparatively, and is in shunt with *C3*, with reference to Fig. 2 and Fig. 3, we can simplify the circuit considerably by neglecting *C3* and considering only *C1*.

Now, with reference to Fig. 2, the voltage induced in the antenna when a radio wave links with it is marked E_A. This voltage causes a current to flow in the

Courtesy Motorola

Fig. 4. — Equivalent series-resonant circuit.

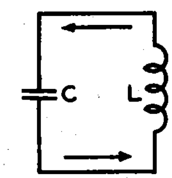


antenna circuit, which is a series circuit consisting of E_A, L_A, C_A and the parallel *L-C* circuit. For further simplicity, this parallel *L-C* circuit of *C1, C3* and *L1-C2* may be represented by an impedance symbol Z_T, as shown in Fig. 4. At resonance of this circuit *C1-C3-C2-L1*, Z_T has a maximum value and the value of I_A is a minimum value. The voltage across Z_T is I_A multiplied by Z_T and is a maximum. Off resonance, the voltage decreases according to the slope of the selectivity curve, as in any tuned circuit.

This aspect of the *C1-C2-L1-C3* circuit as a series impedance Z_T, resistive in nature, is one feature of the circuit. However, from parallel resonant circuit theory, we know that when energy is fed to an *L-C* circuit such as that in Fig. 5, the circuit will oscillate and a maximum circulating current will be obtained at resonance. The frequency of resonance is given by the familiar equation or formula shown in the drawing.

Courtesy Motorola

Fig. 5.—Simple *L-C* circuit in which oscillation occurs and exchange of energy between inductance and capacitance.



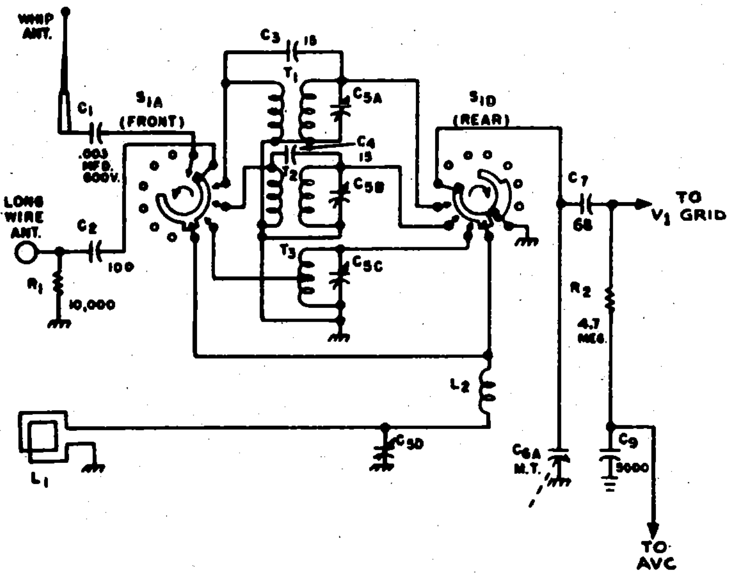
This current is marked I_t in Fig. 2 and is apart from the exciting current I_A in Fig. 4. In this receiver, the Motorola 309, from a practical standpoint, the tuning is controlled in traversing the receiver dial, by varying the inductance of *L1*. At resonance, when I_t is a maximum, the voltage across *C3* (Fig. 2) is also a maximum. This follows from the fundamental fact that $E_c = IX_c$ in a capacitance circuit. Above resonance, the voltage across *L1* rises and that across *C3* drops, since the reactance of *L* increases and that of *C3* diminishes. This follows from the familiar formulas $X_L = 2\pi fL$ and $X_c = 1/(2\pi fC)$.

C3 is essentially a trimmer capacitor which is adjusted at the high end of the band. The output voltage of the network is marked E_O in Fig. 2 and is the signal potential fed to *V1*, which is an r-f amplifier tube in the receiver.

This concludes the discussion on the Motorola 309 input circuit. It has been demonstrated that this circuit, which appears to be simple, can be considered more complex than would ordinarily seem to be the case, upon closer inspection.

Hallicrafters S-72

The input circuit of this receiver is shown in Fig. 6. The switching system permits selection of four bands



After Hallicrafters
Fig. 6.—Antenna input and switching circuit of Hallicrafters S-72.

of frequencies. Band 1 extends from 550 to 1,600 kc; Band 2 extends from 1,500 kc to 4.4 Mc; Band 3 extends from 4.5 to 11.5 Mc; and Band 4 extends from 11 to 30 Mc.

L1 is a loop antenna. *C5d* is a trimmer on broadcast operation. *L2* is an antenna loading coil used only on the broadcast band. *T1* is used on Band 4; *T2* on Band 3; and *T3* on Band 2.

The bandswitch elements *S1A* and *S1B* permit selection of *L1*, *T3*, *T2*, or *T1*. The switch is shown in the broadcast-band position. The long-wire antenna circuit is connected through *C2* and *S1A* to *L2* and *S1B*. The circuit then traces to the *V1* grid circuit. The whip antenna is disconnected on Band 1, which is the broadcast band.

When the switch is rotated to the 2nd position, referring to *S1A* and a counterclockwise direction, *S1B* moves simultaneously in a clockwise direction. These two switch segments are ganged together by a common shaft.

On the 2nd position, *L2* is connected to the tap on *T3* for Band 2 operation from 1,500 kc to 4.4 Mc. The long-wire and whip antennas are connected to each other through *C2*, *S1A*, and *C1*. The *V1* grid is connected to *T3*. The loop and *L2* are out of the circuit.

In the third setting of the switch, the loop is disconnected from the *V1* grid circuit, and *T2* is connected to the whip and long-wire antenna circuit.

In the fourth position of the bandswitch, *T1* is connected to the whip and long-wire antenna circuit and the loop is out of the circuit (not connected). As shown, the antenna input circuit coupling and characteristics are varied to suit the requirements for broadcast, medium, and high frequencies.

Motorola 79XM21

This receiver uses a rather unusual method of coupling the *V1* r-f amplifier to the *V2* converter. Fig. 7 is a breakdown circuit used for explanation. On f.m., the plate load for *V1* consists essentially of *L4* shunted by the input impedance of the following *V2* stage. *R3* is shorted by *S2B* on f.m.

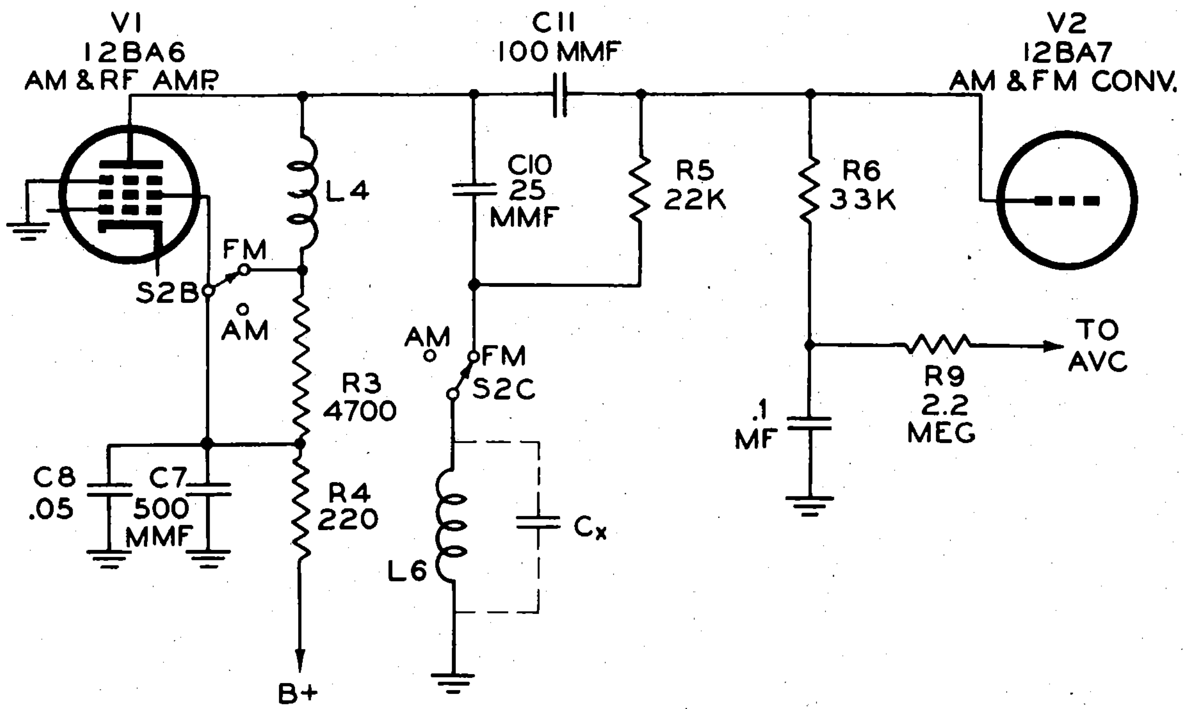
S2C connects *L6* in the circuit on f.m. As *L6* is the equivalent of a parallel *L-C* tuned circuit, functioning as a quarter-wave transmission line of variable length, we may visualize *L6* as being a coil with a paralleled capacitance C_X. Both the *L* and *C* values of the line are varied as the shorting plunger is moved into the coil-capacitor (*L6*) assembly, and the shorter in electrical length the line is made, the higher becomes the operating frequency.

Conversely, as the line length is increased electrically, the frequency becomes lower. Basically, we know that maximum voltage across the load will be obtained when the impedance is a maximum, and this condition is secured at resonance for a particular frequency.

On f-m frequencies of the order of 88 to 108 Mc, the reactance of *C11* is negligible and that of *C10* is very small. Therefore, we can visualize, at resonance, a simple resistive impedance of high value between *S2C* and ground, across the terminals of *L6*-C_X.

The voltage across this impedance is essentially that across the input circuit of *V2*, since *R5* is small in value and the reactances of *C11* and *C10* are insignificant.

On a.m., *R3* is not shorted by *S2B* and the *V1* plate load is essentially the total impedance of *L4* and *R3* shunted by the input impedance of the *V2* stage. The impedance of *L4*, however, is so small as to be negligible at broadcast frequencies and the input impedance

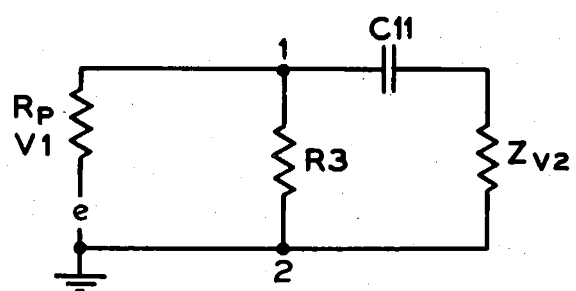


After Motorola

Fig. 7.—Coupling of *V1* r-f amplifier to *V2* converter in Motorola 79XM21.

of the *V2* stage is so high that, for all practical purposes, the *V1* plate load R_P is 4,700 ohms. *C10* has an appreciable reactance at broadcast frequencies and may be considered to have been removed from the circuit on a.m.

The coupled circuit now may be simplified to that of Fig. 8, as an approximation. Note that the f-m quarter-



Courtesy Motorola

Fig. 8.—Simplified coupled circuit in Motorola 79XM21.

wave line is out of the coupled circuit on a-m operation. With reference to Fig. 8, *e* is the internal voltage of *V1* considered as a potential generator, Z_{V2} is the input impedance of tube *V2* and the lower terminal of *R3* is considered to be grounded since the reactance of the parallel combination of *C8-C7* may be considered negligible.

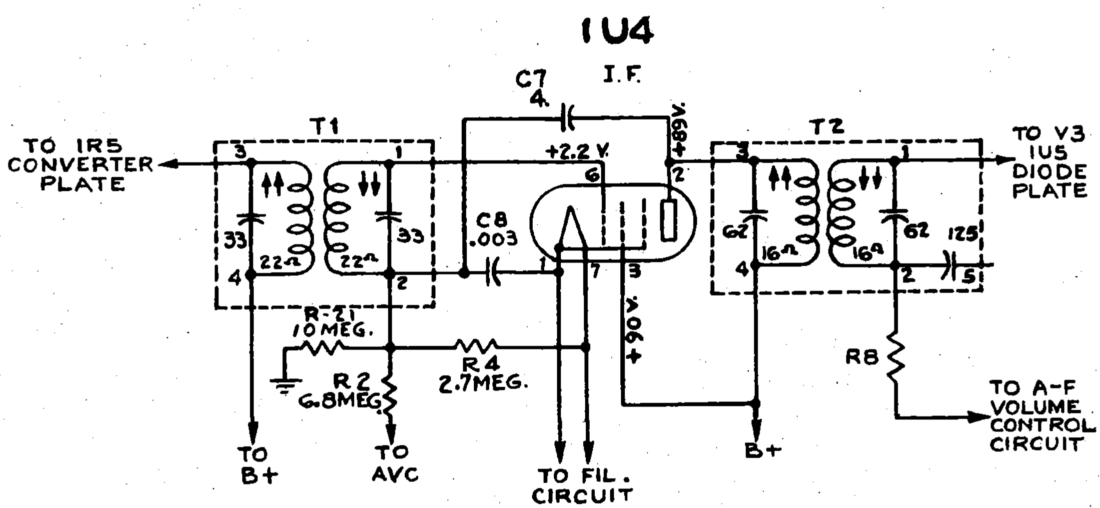
C11 and Z_{V2}, it is seen, form the elements of a simple voltage divider. The potential across *R3* is applied to Z_{V2} through *C11*, which is the linking element in the coupled circuit. The voltage attenuation of *C11* tends to increase with decreasing frequency, but as the input impedance of *V2* is essentially capacitive and rises with decreased frequency, a compensating or balancing action is achieved.

For maximum voltage across terminals 1-2, *R3* should have a high value, and the net impedance across these terminals should be high, but by making *R3* low in value a broader band-pass characteristic is obtained at the expense of voltage gain.

The tuned input circuit of *V1* is not shown here but is shown in the complete schematic in Volume XX, and is adequate for preselection on the broadcast band.

RCA 9BX5

Coupling between the 1U4 i-f plate- and grid-return circuits, shown in Fig. 9, results in gain reduction accompanied by increased stability at the i-f level. A



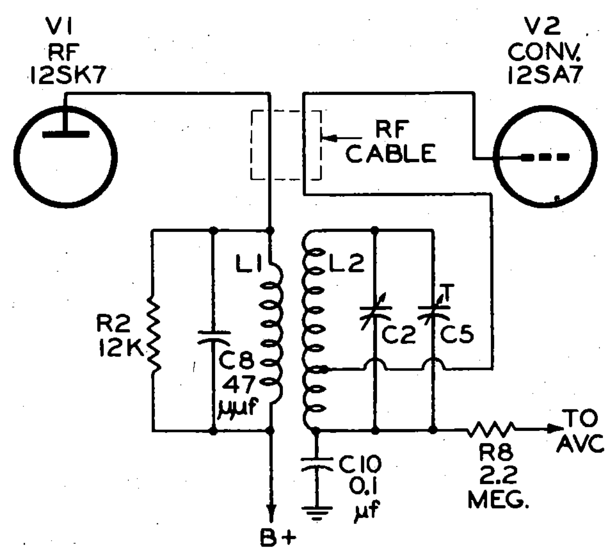
After RCA

Fig. 9.—Coupled circuit in RCA 9BX5.

signal voltage developed in the plate circuit is fed to *C8*, a 0.003-μf capacitor, through *C7*, a 4-$\mu\mu f$ unit. A voltage drop develops across *C7* and the impedance of *C8* is not large at the i-f level. However, only a small amount of voltage is required and a sufficient potential for the desired purpose, negative feedback, is obtained across *C8*. This potential acts in series with the grid-filament input circuit of the 1U4. As the feedback voltage is out of phase with the input voltage across the secondary of *T1*, partial cancellation results. The stage is thus limited in the tendency to oscillate, a trouble often encountered in i-f stages.

RCA 9X641

This receiver uses an unusual coupling circuit for signal transfer from r-f plate to converter grid, as shown in Fig. 10. *L1-C8* is a resonant primary circuit. *L2-C2, C5,* is the usual resonant secondary circuit. However, the capacitance loading effect of the *V2* input circuit is minimized by tapping down on the secondary coil and a voltage reduction is also secured. The primary purpose of the circuit is evidently to achieve selectivity and equalized sensitivity over the tuning range. Capacitive coupling at the high end of the band is obtained by means of the "gimmick", an r-f cable, shown in the drawing. An r-f voltage is transferred through this capacitance from the 12SK7 r-f plate to the 12SA7 converter grid. This is equivalent to the usual coupling capacitance or "gimmick" often found to provide coupling between the primary and secondary of broadcast antenna transformers in receivers.

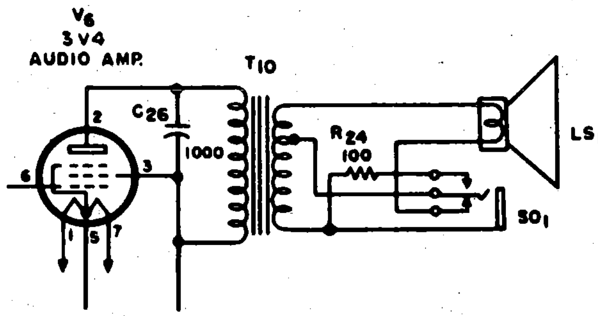


After RCA

Fig. 10.—Signal transfer from r-f plate to converter grid in RCA 96X641.

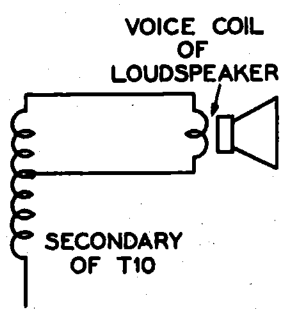
Hallicrafters S-72

The output circuit of this receiver is shown in Fig. 11. This coupled circuit uses a transformer. The voice coil is connected in the circuit of Fig. 11, which can be simplified to the equivalent circuit in Fig. 12. The plug is out of the headphone jack. The voice coil is connected across a section of the secondary. The impedance of the voice coil is usually quite low, less than about 10 ohms. The impedance of the headphones will usually be quite high, 2,000 ohms or higher. To accom-



After Hallicrafters

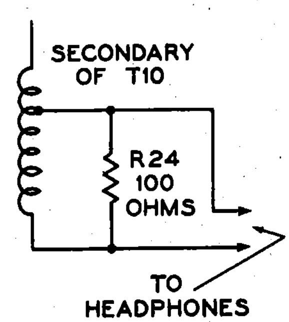
Fig. 11.—Audio output circuit of Hallicrafters S-72.



Courtesy Hallicrafters

Fig. 12.—Secondary circuit of output transformer stage in Hallicrafters S-72 when loudspeaker arrangement is used.

modate the changed impedance of the circuit when a headphone plug is inserted in *S01,* the circuit is equivalent to that of Fig. 13. The voice coil is disconnected, silencing the loudspeaker. The 100-ohm loading resistor limits the voltage across the headphone circuit to prevent damage and overloading of the headphones.

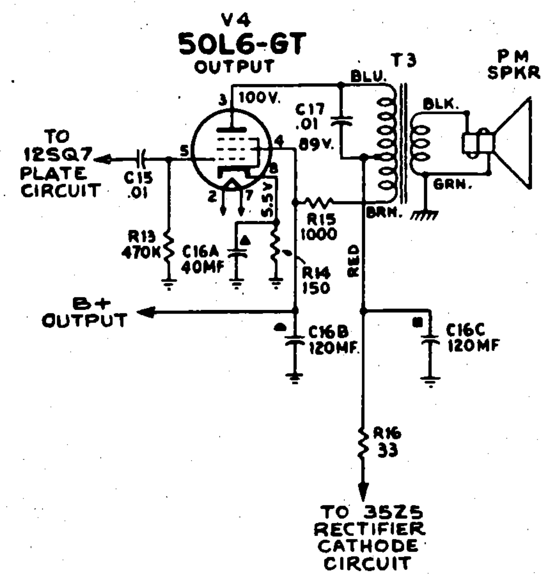


Courtesy Hallicrafters

Fig. 13.—Secondary circuit of output transformer stage in Hallicrafters S-72 when headphones are used.

RCA 9X571

Coupling between the upper section of the primary winding of *T3* and the lower portion permits hum cancellation in the output transformer. With reference to Fig. 14, a hum current may be assumed to flow from



After RCA

Fig. 14.—Hum reduction circuit in output stage of RCA 9X571.

the 50L6 plate to the primary tap, producing core flux having a hum frequency cyclic change. An opposite current, producing an opposing electromagnetic field and cancelling the first hum flux, may be assumed to flow from the screen circuit and *R15* through the lower portion of the *T3* primary and to the tap. The common path from the tap to the 35Z5 cathode is through *R16. C16C* assists in hum reduction.

Using the circuit arrangement described, economy and efficiency are obtained simultaneously.

INDEX TO A-M AND F-M DATA IN RIDER'S "HOW IT WORKS" BOOKS FOR VOLUMES VIII THROUGH XX

This subject listing has been prepared to be used as a convenient reference for all technical material which has appeared in "HOW IT WORKS" books to date.

INDEX

ALAMO ELECTRONICS CORP.

MODEL	FROM	THROUGH
Radioette	Misc.18-2	---
AEC-3RCMB	Misc.16-1	---
PR-1, Radioette	Misc.18-2	---
PR-2	17-1	17-2
2RCM	Misc.16-1	---
50	17-3	17-4

ALDEN, INC.

MODEL	FROM	THROUGH
40-1500	Misc.16-2	---
1525	18-1	---
1561	18-2	18-4
1562	17-1	17-4
1600, 1601	17-5	---
1602L	17-6	---
1613L	17-6	---
1636L	18-5	18-6
1755, 1756, 1757, 1758	18-7	---
1800, 1801, 1802, 1803	19-1	---
1810	18-8	---
1815, 1816	18-9	---
1818	18-10	---
1855, 1856, 1857, 1858, 1859, 1860	19-2	---
1900, 1901	19-3	---
1902, 1903	19-4	---
1904, 1905	19-5	---
1924	19-6	---
1955	19-7	---
1996, 1997	19-8	---

ALGENE RADIO CORP.

MODEL	FROM	THROUGH
Middie	17-6	17-7
AR6M	17-1	17-2
	17-6	---
AR404, Jr.	17-3	17-5
AR406, Middie	17-6	17-7

ALLIED PURCHASING, INC.
(ARIA)

MODEL	FROM	THROUGH
554	17-1	17-3
558	17-4	17-6
571A, 571B	17-7	17-9
571X	17-10	17-12
572	17-6	---
	17-13	17-15
579	17-6	---
	17-16	17-17
701	Misc.19-2	---

ALLIED RADIO CORP.
(KNIGHT)

MODEL	FROM	THROUGH
4B-170	18-1	---
4E-515, 4E-516, 4F-515, 4F-516	19-1	19-2
5B-171	16-1	---
	16-6	---
5B-175, 5B-176, Ch. 200	16-2	---
5C-185	17-1	---
5C-290	17-2	---
5D-250, 5D-251	19-3	19-4
5D-455	19-5	---
5E-250, 5E-251	19-3	19-4
5E-455	19-5	---
5E-457	20-1	---
5F-525, 5F-526	19-6	19-7
5F-560, 5F-561	20-2	---
5F-565	19-8	19-9
5G-563	20-2	---
6A-127, Revised	C18-1	---
6B-122	16-3	16-5
6B-127	C18-1	---
6B-155, 6B-156	16-6	---
6C-122	C18-2	---
6C-127	C18-1	---
6C-225, 6C-226	17-3	17-4
6F-235	20-3	20-4
7B-220, 7C-220	17-5	17-8
8G-200, 8G-201	20-5	20-6
10C-249	18-2	18-6
11B-278, 11C-300	17-9	17-13
14F-490, 14F-495, 14F-496	19-10	19-14
19F-492, 19F-497, 19F-498	19-15	19-21
200, Ch.	16-2	---

ALTEC LANSING CORP.

MODEL	FROM	THROUGH
101	19-1,2	19-5

AMBASSADOR DISTRIBUTION CORP.

MODEL	FROM	THROUGH
141	Misc.17-1	---
144	Misc.17-1	---

AMC
See ASSOCIATED MERCHANDISING CORP.

AMERICAN COMMUNICATIONS CORP.

MODEL	FROM	THROUGH
HK-2	Misc.19-3	---

ANDREA RADIO CORP.

MODEL	FROM	THROUGH
CO-U15	17-1	17-6
CO-U15-R	18-4	---
J-5B	18-1,2	18-3
T-16	16-1	16-3
T-U15	17-1	17-6
T-U16	16-4	16-5
35HS	Misc.19-4	---

ANSLEY RADIO CORP.

MODEL	FROM	THROUGH
Dynaphone	17-6	17-9
FM-4, FM Tuner	16-2	16-3
WQXR	16-1	---
32A	C17-1	---
53	17-1,2	17-5
105, Dynaphone	17-6	17-9
677, 678	16-4	16-5
5111	16-5	16-6

ANSLEY RADIO & TELEVISION, CORP.

MODEL	FROM	THROUGH
113, Ch.	Misc.20-2	---
707, 708, Ch. 113	Misc.20-2	---

APEX RADIO & TELEVISION CORP.

MODEL	FROM	THROUGH
25	17-1	17-2
8146, 8347	17-3	17-6

APPROVED ELECTRONIC INSTRUMENT CORP.

MODEL	FROM	THROUGH
F-M Tuner	17-1	17-5
A-600	20-1	---
A-600 AC	20-2	---
A-710	20-3	20-8

ARCADIA
See WELLS-GARDNER & CO.

ARC RADIO CORP.

MODEL	FROM	THROUGH
601	16-1	16-2

ARIA
See ALLIED PURCHASING, INC.

ARTONE
See AFFILIATED RETAILERS, INC.

ART RADIO CO.

MODEL	FROM	THROUGH
6-Tube	Misc.19-5	---

ARVIN
See NOBLITT-SPARKS INDUSTRIES, INC.

ASSOCIATED MERCHANDISING CORP.
(AMC)

MODEL	FROM	THROUGH
125P	18-1	18-2
125Z	18-3	18-4
126	19-1	19-2

ATLAS COIL WINDERS, INC.

MODEL	FROM	THROUGH
FMF-3, Tuner	20-1	20-2

ATLAS SUPPLY CO.

MODEL	FROM	THROUGH
NU6, NUP	Misc.17-2	---

AUDAR, INC.

MODEL	FROM	THROUGH
PR-6	19-1	19-2
RER-9	18-1	18-3

AUTOMATIC RADIO MFG. CO., INC.
(TOM THUMB)

MODEL	FROM	THROUGH
Bike Radio	19-1	19-2
Tom Boy	17-1	---
	17-8	---

MODEL	FROM	THROUGH

AUTOMATIC RADIO MFG. CO., INC. (Cont'd)

MODEL	FROM	THROUGH
Tom Thumb Buddy	18-1	18-3
Tom Thumb Camera	18-4	18-6
Tom Thumb Jr.	17-1	---
	17-8	---
A.T.T.P., (Automatic Tom Thumb Portable)	16-1	---
B-44, Bike Radio	19-1	19-2
C-60X	16-1	---
F-790	16-3	---
M10, M20	17-2	17-3
M86	17-5	---
M-90	20-1	20-2
M-92C	20-3	20-6
P30, P33	18-7	---
P43, P45	17-4	---
X-50	20-7	20-8
127	C18-2	---
601, Series B	16-2	---
601, Series C	16-2	---
602, Series B	16-2	---
602, Series C	16-2	---
620	16-3	---
640, Series B	C17-9	---
	C18-2	---
650	C17-9	---
660, 662, 666, Series C	17-6	17-7
677, Series B	16-4	---
677, Series C	18-8	---
720	16-4	---
801	18-9	---
801, Series B	18-9	---
802	18-9	---
802, Series B	18-9	---
803	18-9	---
803, Series B	18-9	---

AVALON RADIO CO.

MODEL	FROM	THROUGH
4-Tube, AC-DC	Misc.19-6	---

AVIOLA RADIO CORP.

MODEL	FROM	THROUGH
501	16-1	16-2
509	16-1	16-2
512	16-1	16-2
518	16-1	16-2

BELMONT RADIO CORP.

MODEL	FROM	THROUGH
Boulevard	16-10	---
A-7AF21, Series A	20-1	20-4
A-7DF21, Series A	20-5	20-9
B-8AF21	18-1	18-5
C-10AF21	18-6	18-10
4B115, Series A	17-1	17-3
5C12	18-11	18-16
5D110, Series A	17-4	17-5
5D118, Series A	17-6	17-7
5P19, Series A	17-8	17-9
5P113, 5P116, 5P117, Boulevard	16-10	---
6D110, Series A	17-10	17-11
6D111, Series B	16-1	16-2
6D120, Series A	16-3	16-4
6D121, Series A	17-12	17-13
6D127	C18-2	---
6D130, Series A	18-17	18-19
8A510	C17-9	---
8AF25	20-10	20-14
11AF21, Series A	16-5	16-9
5240, Series A	17-14	17-16

BENDIX RADIO DIV.

MODEL	FROM	THROUGH
0526	20-1	20-6
PAR-80	18-1	18-4
	C19-1	---
PAR-80A	18-1	18-3
	18-5	---
R526M	17-3	17-4
55L2, 55L3, 55P2, 55P3	20-7	20-9
55X4	20-10	20-12
65P4	20-13	20-15
69B8, 69M8, 69M9	19-1	19-8
	C20-1	---
75B5, 75M5, 75M8, 75P6, 75W5	20-16	20-23
79M7	20-24	20-30
95B3, 95B3 Revised, 95B4, 95M3, 95M3 Revised, 95M4, 95M9, 95M9 Revised	20-31	20-39

BENDIX RADIO DIV. (Cont'd)

MODEL	FROM	THROUGH
110, 110W, 111, 111W, 112, 114, 115	18-6	18-8
	C19-1	---
300, 300W, 301, 302	18-9	18-11
416A	17-1	17-2
526A, 526B, 526C, 526E	20-1	20-6
613	18-12	18-14
626A	16-1	16-3
	C19-1	---
646A	15-5	15-6
	C19-1	---
697A	17-5	17-6
847B	17-7	17-14
	18-15	18-20
	C19-1	---
1217B	19-9	19-19
	C20-1	---
1217D	19-20	19-33
	C20-1	---
1518, 1519	18-21,22	18-27
1521	18-28	18-37
1524, 1525	18-21,22	18-27
1531, 1533	18-38	18-40

DAVID BOGEN CO., INC.

MODEL	FROM	THROUGH
R502	18-3	18-4
R601	18-1,2	---

BREWSTER
See MEISSNER MFG. DIV.
MAGUIRE INDUSTRIES, INC.

BROWNING LABORATORIES, INC.

MODEL	FROM	THROUGH
RJ-12, RJ-14	18-1	18-3
RJ-20, RJ-22, Tuner	20-1	20-7
RV-10, RV-11	18-4	18-8

BRUNSWICK
See RADIO & TELEVISION INC.

BUICK
See UNITED MOTORS SERVICE

BUTLER BROTHERS
(AIR KNIGHT)
(SKYROVER)

MODEL	FROM	THROUGH
RD-290	Misc.18-3	---
RD-291	Misc.18-3	---
RD-292	Misc.19-7	---
RD-295	Misc.19-7	---

CADILLAC
See UNITED MOTORS SERVICE

CAPEHART-FARNSWORTH CORP.
Also See FARNSWORTH TELEV. & RADIO CORP.

MODEL	FROM	THROUGH
M-2AM, Series	20-11	20-16
M-2FM, Series; M-2 220, M-2 260	20-1	20-12
M-3AM, Series	20-11	20-16
M-3FM, Series; M-3 175, M-3 220	20-1	20-12
M-4	20-17	20-20
400-K, Series	20-21	20-31
A-7, Amplifier	20-29	---
400M, Extended and Remote Control	20-32	20-43

CAPITOL RADIO CORP.

MODEL	FROM	THROUGH
UN61	18-1	---
	18-4	---
UN62	18-2	---
UN72, UN72PC	18-3	18-4

CHANCELLOR
See RADIONIC EQUIPMENT CO.

CHEVROLET DIV. - GENERAL MOTORS
Also See MOTOROLA INC.
Also See UNITED MOTORS SERVICE

MODEL	FROM	THROUGH
985792	C17-1	---
986067	16-1	16-4

CHRYSLER
See PHILCO CORP.

MODEL	FROM	THROUGH
CISCO		
See CITIES SERVICE OIL CO.		
CITIES SERVICE OIL CO. (CISCO)		
1A5	17-1	17-2
9A5	17-3	17-4
CLARION		
See WARWICK MFG. CO.		
COAST-TO-COAST STORES CENTRAL ORGANIZATION INC. (MUSICAIRE)		
MA360, See WARWICH Model C100	15-1	---
MA361	19-1	19-2
MD3, See INTERNATIONAL DETROLA Model 571X	15-15	15-17
MD6, See TEMPLETONE Model E-514	15-5	15-6
MD8, See INTERNATIONAL DETROLA Model 554	15-2	15-4
MD9, See INTERNATIONAL DETROLA Model 579	15-7	---
	15-23	15-24
MD10, See INTERNATIONAL DETROLA Model 572	15-7	---
	15-18	15-20
MD11, See TEMPLETONE Model F-617	15-4	---
MD12, See INTERNATIONAL DETROLA Models 571B, 571X	15-12	15-17
MD13, See INTERNATIONAL DETROLA Model 576	15-7	---
	15-21	15-22
MD15, See SENTINEL Model 284T	15-6	15-8
MD16, See SENTINEL Model 284NR	15-6	15-8
MD17, See SENTINEL Model 294T	15-13	15-16
MD19, See SENTINEL Model 284NI	15-6	15-8
MD20, See SENTINEL Model 284NB	15-6	15-8
MD22, See WARWICK Model C110	16-1	---
MD23, See WARWICK Model C-102	15-3	---
MD24, See INTERNATIONAL DETROLA Model 7270	16-3	---
	16-5	16-6
MD25, See INTERNATIONAL DETROLA Model 571A	15-12	15-14
MD26, MD27	19-3	19-4
MD28, MD29	Misc.17-3	---
MD42, MD43, MD44	19-5	19-7
MD300, See SENTINEL Model 309-W	17-2	---
	17-10	---
MD310, See SENTINEL Model 309-I	17-2	---
	17-10	---
MD320, See SENTINEL Model 309-R	17-2	---
	17 10	---
MD380, See SENTINEL Model 294W	15-13	15-16
MD390, See SENTINEL Model 294I	15-13	15-16
MD400, See SENTINEL Model 294T	15-13	15-16
MD450, See SENTINEL Model 302-W	17-4	17-9
MD460, See SENTINEL Model 302-I	17-4	17-9
MD470, See SENTINEL Model 302-T	17-4	17-9
MD480, See SENTINEL Model 293CT	16-17	16-18
MD490, See SENTINEL Model 302-T	17-4	17-9
MD500, See SENTINEL Model 293CT	16-17	16-19
MD510, See SENTINEL Model 302-T	17-4	17-9
ME1	19-1	19-2

MODEL	FROM	THROUGH
COAST-TO-COAST STORES (Cont'd) CENTRAL ORGANIZATION, INC.		
ME5, See SENTINEL Model 289T	15-8	15-10
	15-17	15-19
ME6, See SENTINEL Model 285P	16-11	16-13
ME7, See WARWICK Model 11011	17-1	17-2
ME8	20-1	20-2
ME40, See SENTINEL Model 289T	15-8	15-10
	15-17	15-19
ME50, See SENTINEL Model 285P	16-11	16-13
ME60, See SENTINEL Model 286P	16-14	16-16
ME70, See SENTINEL Model 286PR	16-14	16-16
ME80, See SENTINEL Model 286P	16-14	16-16
ME90, See SENTINEL Model 286P	16-14	16-16
ME100, See SENTINEL Model 286P	16-14	16-16
ME110, See SENTINEL Model 286P	16-14	16-16
ME120, See SENTINEL Model 286P	16-14	16-16
5CX001, See SENTINEL Model 100X	9-29	9-30
5T08, See SENTINEL Model 80B	10-8	10-11
5T27, See SENTINEL Model 72A	9-13	9-14
5T37, See SENTINEL Model 73B	10-7	10-8
5T601, See SENTINEL Model 106A	10-26	---
	10-32	10-33
5TU55, See SENTINEL Model 55U	8-24	---
5TX001, See SENTINEL Model 100X	9-29	9-30
6AA27, See SENTINEL Model 72A	9-13	9-14
6AAE27, See SENTINEL Model 72A	9-13	9-14
6C28, See SENTINEL Model 82A	9-21	9-22
	10-1	10-2
	10-12	---
6C39, See SENTINEL Model 93L	9-25	9-26
6C56, See SENTINEL Model 65B	8-27	---
6CE69, See SENTINEL Model 96BE	10-25	10-26
6T28, See SENTINEL Model 82A	9-21	9-22
	10-1	10-2
	10-12	---
6T39, See SENTINEL Model 93L	9-25	9-26
6T56, See SENTINEL Model 65B	8-27	---
6TE27, See SENTINEL Model 72A	9-13	9-14
6TE69, See SENTINEL Model 96BE	10-25	10-26
7C59, See SENTINEL Model 95B	10-1	10-2
	10-12	---
	10-23	10-24
7CE87, See SENTINEL Model 78B	10-1	10-2
	10-9	10-10
	10-12	---
7T59, See SENTINEL Model 95B	10-1	10-2
	10-12	---
	10-23	10-24
7TE87, See SENTINEL Model 78B	10-1	10-2
	10-9	10-10
	10-12	---
8CE68, See SENTINEL Model 86AE	10-1	10-2
	10-12	---
	10-15	10-16

COAST-TO-COAST STORES (Cont'd)
CENTRAL ORGANIZATION, INC.

MODEL	FROM	THROUGH
11C67, See SENTINEL Model 76A	9-17	9-19
14AC, See SENTINEL Model 14A	9-1,2	---
	9-5	---
19A66, See SENTINEL Model 19A	8-7	---
19A102, See SENTINEL Model 19A	8-7	---
20A100, See SENTINEL Model 20A	7-1	---
20A102, See SENTINEL Model 20A	7-1	---
30A, See SENTINEL Model 30A	8-8	---
36L73, See SENTINEL Model 36L	8-12	---
36L102, See SENTINEL Model 36L	8-12	---
37B91, See SENTINEL Model 37B	8-13	---
37BT, See SENTINEL Model 37B	8-13	---
38B92, See SENTINEL Model 38B	8-14	---
38B102, See SENTINEL Model 38B	8-14	---
46A102, See SENTINEL Model 46A	9-9,10	9-11
46A108, See SENTINEL Model 46A	9-9,10	9-11
46AC, See SENTINEL Model 46A	9-9,10	9-11
46ACE, See SENTINEL Model 46A	9-9,10	9-11
46AT, See SENTINEL Model 46A	9-9,10	9-11
46ATE, See SENTINEL Model 46A	9-9,10	9-11
47A112, See SENTINEL Model 47A	7-2	7-4
47ACE, See SENTINEL Model 47A	7-2	7-4
48A107, See SENTINEL Model 48A	8-17	---
50B93, See SENTINEL Model 50B	8-19	8-20
50B102, See SENTINEL Model 50B	8-19	8-20
51BL, See SENTINEL Model 151BL	10-72	10-74
52A, See SENTINEL Model 52A	8-21	---
52A110, See SENTINEL Model 52A	8-21	---
52ACE, See SENTINEL Model 52A	8-21	---
52ATE, See SENTINEL Model 52A	8-21	---
60BT, See SENTINEL Model 60B	8-25	---
63BC, See SENTINEL Model 63B	8-26	---
63BT, See SENTINEL Model 63B	8-26	---
66BCE, See SENTINEL Model 66B	9-3,4	---
	9-6	---
67LC, See SENTINEL Model 67L	10-4	10-5
67LT, See SENTINEL Model 67L	10-4	10-5
68BC, See SENTINEL Model 68B	10-4	---
	10-6	---
68BT, See SENTINEL Model 68B	10-4	---
	10-6	---
70AT, See SENTINEL Model 70A	8-28	---
99ACE, See SENTINEL Model 99AE	10-29	10-31
002XC, See SENTINEL Model 200X	11-43	11-44
002XT, See SENTINEL Model 200X	11-43	11-44

COAST-TO-COAST STORES (Cont'd)
CENTRAL ORGANIZATION, INC.

MODEL	FROM	THROUGH
022-F, See SENTINEL Model 220	12-20	12-21
031BCE, See SENTINEL Model 130B	10-51	10-52
031BCGE, See SENTINEL Model 130B	10-51	10-52
031BT, See SENTINEL Model 130B	10-51	10-52
081XL, See SENTINEL Model 180XL	11-13	11-14
091ATE, See SENTINEL Model 190A	11-25,26	---
	11-29	---
100AC, See SENTINEL Model 110A	10-37	10-39
122-CE, See SENTINEL Model 221	12-22	12-24
122-T, See SENTINEL Model 221	12-22	12-24
142-C, See SENTINEL Model 241	12-35	12-36
142-T, See SENTINEL Model 241	12-35	12-36
142-W, See SENTINEL Model 241	12-35	12-36
172-C, See SENTINEL Model 271	13-35	13-36
172-T, See SENTINEL Model 271	13-35	13-36
212C, See SENTINEL Model 212	12-1	12-2
212-I, See SENTINEL Model 212	12-1	12-2
212-T, See SENTINEL Model 212	12-1	12-2
212-W, See SENTINEL Model 212	12-1	12-2
262-P, See SENTINEL Model 262	13-23	13-24
302ULT, See SENTINEL Model 203UL	11-49	11-50
341LC, See SENTINEL Model 143L	10-46	---
	10-63	10-64
341LT, See SENTINEL Model 143L	10-46	---
	10-63	10-64
362-C, See SENTINEL Model 263	13-25	13-26
372-C, See SENTINEL Model 273	13-26	---
	13-37	---
372-T, See SENTINEL Model 273	13-26	---
	13-37	---
402AA, See SENTINEL Model 204A	11-51	11-52
412-Q, See SENTINEL Model 214	12-2	---
	12-5	---
	12-14	---
412-W, See SENTINEL Model 214	12-2	---
	12-5	---
	12-14	---
421ACE, See SENTINEL Model 124AE	10-43	10-44
421AT, See SENTINEL Model 124A	10-43	10-44
421ATE, See SENTINEL Model 124A	10-43	10-44
441XC, See SENTINEL Model 144X	10-31	---
	10-65	10-66
441XT, See SENTINEL Model 144X	10-31	---
	10-65	10-66
462-T, See SENTINEL Model 264	13-27	13-28
491UTI, See SENTINEL Model 194UL	11-31	11-32
491UTW, See SENTINEL Model 194UL	11-31	11-32
491UTWD, See SENTINEL Model 194UL	11-31	11-32

COAST-TO-COAST STORES (Cont'd)
CENTRAL ORGANIZATION, INC.

MODEL	FROM	THROUGH
502BL, See SENTINEL Model 205BL	11-53	11-54
521ACE, See SENTINEL Model 125AE	10-45	10-46
521ACGE, See SENTINEL Model 125AE	10-45	10-46
521ATE, See SENTINEL Model 125AE	10-45	10-46
541ACGE, See SENTINEL Model 145AG	10-35	---
	10-67	10-68
	10-81	---
571BC, See SENTINEL Model 175B	11-9	11-10
571TW, See SENTINEL Model 175B	11-9	11-10
591ULTO, See SENTINEL Model 195UL	11-33	11-34
591UTW, See SENTINEL Model 195UL	11-33	11-34
591UTWD, See SENTINEL Model 195UL	11-33	11-34
622-I, See SENTINEL Model 226	13-1	13-2
622-W, See SENTINEL Model 226	13-1	13-2
632-CE, See SENTINEL Model 236	12-3	---
	12-29	12-30
	12-34	---
632-TE, See SENTINEL Model 236	12-3	---
	12-29	12-30
	12-34	---
671BC, See SENTINEL Model 176B	11-11	11-12
671BT, See SENTINEL Model 176B	11-11	11-12
681BC, See SENTINEL Model 186B	11-21	11-22
681BT, See SENTINEL Model 186B	11-21	11-22
701ACE, See SENTINEL Model 107AE	10-33	10-36
721BC, See SENTINEL Model 127B	10-47	10-48
	10-81	---
721BT, See SENTINEL Model 127B	10-47	10-48
	10-81	---
791XCE, See SENTINEL Model 197X	11-35	11-36
811BC, See SENTINEL Model 118B	10-40	---
	10-42	---
811BT, See SENTINEL Model 118B	10-40	---
	10-42	---
811BTWD, See SENTINEL Model 118B	10-40	---
	10-42	---
812-G, See SENTINEL Model 218	12-7	12-8
812-T, See SENTINEL Model 218	12-7	12-8
831ACE, See SENTINEL Model 138AE	10-53	10-54
	10-81	---
831ATE, See SENTINEL Model 138AE	10-53	10-54
	10-81	---
841AT, See SENTINEL Model 148A	10-71	10-72
842-G, See SENTINEL Model 248-G	18-4	18-6
842-I, See SENTINEL Model 248-I	18-4	18-6
842-K, See SENTINEL Model 248-K	18-4	18-6
842-T, See SENTINEL Model 248-T	18-4	18-6
842-W, See SENTINEL Model 248-W	18-4	18-6
851AE, See SENTINEL Model 158AE	10-75	10-76
	10-81	---

COAST-TO-COAST STORES (Cont'd)
CENTRAL ORGANIZATION, INC.

MODEL	FROM	THROUGH
861BC, See SENTINEL Model 168B	11-7	11-8
861BT, See SENTINEL Model 168B	11-7	11-8
862-C, See SENTINEL Model 268	13-33	13-34
862-T, See SENTINEL Model 268	13-33	13-34
891ALCE, See SENTINEL Model 198A	11-37	11-38
891ALT, See SENTINEL Model 198A	11-37	11-38
911BC, See SENTINEL Model 119B	10-41	10-42
911BT, See SENTINEL Model 119B	10-41	10-42
912-P, See SENTINEL Model 219	12-18	12-19
932-C, See SENTINEL Model 239	12-3	---
	12-22	---
	12-33	12-34
932-T, See SENTINEL Model 239	12-3	---
	12-22	---
	12-33	12-34
942-C, See SENTINEL Model 249	13-15	13-16
942-I, See SENTINEL Model 249	13-15	13-16
942-T, See SENTINEL Model 249	13-15	13-16
942-W, See SENTINEL Model 249	13-15	13-16
962-C, See SENTINEL Model 269C	15-1	15-5
962-F, See SENTINEL Model 269F	15-1	15-5
962-T, See SENTINEL Model 269T	15-1	15-5
981LC, See SENTINEL Model 189L	11-23	11-24
981LT, See SENTINEL Model 189L	11-23	11-24
991AC, See SENTINEL Model 199A	11-39,40	11-41
991AE, See SENTINEL Model 199AE	11-39,40	11-41

COLLINS AUDIO PRODUCTS CO.

MODEL	FROM	THROUGH
25-A	18-1,2	---
25-C	18-3,4	---

CONCORD RADIO CORP.
(LINCOLN RADIO)

MODEL	FROM	THROUGH
1-404, 1-405	18-1	---
1-413	19-1	---
1-506	18-2	---
1-507, 1-508	18-3	18-4
1-513	18-5	18-6
1-514	18-7	18-8
1-518	18-9	18-11
1-601, 1-602, 1-603	18-12	18-15
1-608	19-2	19-3
1-610	18-16	---
1-611	18-17	---
1-702, 1-704	19-4	19-5
1-1100	19-7,8	19-9,10
1-1500, 1-1501, 1-1502	19-11,12	19-22
6C51B, 6C51W	16-1	---
6F26W, Ch. 105	17-1	17-2
7E51W	17-3	---
7E71PR	19-6	---
7G26C	16-2	16-4
105, Ch.	17-1	17-2

CORONADO
See GAMBLE-SKOGMO, INC.

CORONET RADIO & TELEVISION CO.

MODEL	FROM	THROUGH
Arista	18-1	18-5
6 Tube, 3 Band, AC	20-3	---
6B1	20-1	---
6B2	20-2	---
1405	20-4	---

CORONET RADIO & TELEVISION CO. (Cont'd)

MODEL	FROM	THROUGH
1481	20-5	---
1491	20-6	---
1583	16-1	16-2
1701	16-3	16-4
1701X, Arista	18-1	18-5

CROMWELL
See W.T. KNOTT CO., INC.
Also See MERCANTILE STORES CO., INC. (N.Y.)

CROSLEY CAR CO.
See ZENITH RADIO CORP.

CROSLEY DIV.
AVCO MFG. CORP.

MODEL	FROM	THROUGH
9-101	18-1	18-3
	C19-1	---
9-101, Revised	19-1	19-3
9-102	18-4	18-6
9-103, 9-104W	18-7	18-9
9-105, 9-106W	19-4	19-7
9-113, 9-114W	19-8	19-10
9-117	18-10	18-11
9-118W	18-4	18-6
9-119, 9-120W	18-12	18-13
9-121, 9-122W	19-22	19-25
9-201, 9-202M, 9-203B	18-14	18-19
	C19-1	---
9-204, 9-205M	19-11	19-18
9-207M	20-1	20-8
9-209	19-19	19-21
9-209, Revised	19-26	19-29
9-209L	19-26	19-29
9-212B	19-19	19-21
	C20-1	---
9-212M	19-19	19-21
9-212M, Revised	19-26	19-29
9-212ML, 9-213B	19-26	19-29
9-302	18-20	18-23
10-145M	20-9	20-11
10-307M	20-12	20-14
52TQ	C18-2	---
56FC	16-1	16-3
56PA, 56PB	C17-1	---
	C18-2	---
56TD	16-4	16-6
56TD-W	17-1	17-2
56TN	17-3	17-6
56TN-L	16-6	16-9
56TP-L	18-24	18-26
56TR, 56TS	18-27	18-29
56TU	17-7	17-8
56TU-Q, 56TV-Q	18-30	18-32
56TX-L	16-2	---
	16-6	---
	16-12	16-13
56TY	17-9	17-10
56TZ, 1st and 2nd Production	16-6	---
	16-10	16-11
56XTA, 56XTW	16-8	---
	16-14	16-15
	16-19	---
57TK, 57TL	17-11	17-12
57TQ, 1st and 2nd Production	16-6	---
	16-10	16-11
58TA	17-13	17-14
58TC	17-15	17-16
58TH, 58TH-Q	18-33	18-36
58TK	17-17	17-18
58TL	17-13	17-14
58TW	17-15	17-16
58XA, 58XA-10, 58XA-20	18-37	18-39
58XTA, 58XTW, Revised	20-15	20-18
58XW, 58XW-10, 58XW-20	18-37	18-39
66CS, 66CSM	16-16	16-19
66CS(0)	18-40	18-43
	C18-2	---
66CS(s)	16-16	16-19
66CT	18-44	18-46
66TC-S	16-19	16-22
66XTA, 66XTA-10, 66XTA-20	18-47	18-49
66XTW, 66XTW-10, 66XTW-20	19-39	19-41
68CP, 68CR	19-42	19-44
68TA, 68TW	19-45	19-47
86CR	16-23,24	16-30
86CR, Revised	17-19,20	17-26

CROSLEY DIV. (Cont'd)
AVCO MFG. CORP.

MODEL	FROM	THROUGH
86CS	16-23,24	16-30
86CS, Revised; 87CQ, 88CR	17-19,20	17-26
88TA, 88TC	18-50	18-60
146CS, 146CS(V)	17-27,28	17-39,40
148CP, 148CP(W), 148CQ, 148CR	19-48	19-63

J.W. DAVIS & CO.
(WATTERSON)

MODEL	FROM	THROUGH
4810, 4820	Misc.20-3	---

DAYTON
See W.W. GRAINGER CO.

DELCO
See UNITED MOTORS SERVICE

DETROLA
See INTERNATIONAL DETROLA CORP.

DEWALD RADIO

MODEL	FROM	THROUGH
A-504, A-505	20-1	---
A-507	16-1	---
A-509	16-2	16-3
A-514	17-2	---
B-400	17-1	---
B-401	18-1	---
B-504	18-2	18-3
B-506	18-4	---
B-511	18-5	18-6
B-512	19-1	19-2
B-612	19-3	19-5
C-615	20-2	20-3
C-800	20-4	20-5
JB-523	17-2	---

DUAL ENGINEERING CORP.

MODEL	FROM	THROUGH
A6-C5389	Misc.17-4	---

ECA
See ELECTRONIC CORP. OF AMERICA

ECHOPHONE
See THE HALLICRAFTERS CO.

ECKENROTH CO., INC.

MODEL	FROM	THROUGH
100, Musagrand	Misc.18-4	---

ECKO
See ECKSTEIN RADIO & TELEVISION CO.

ECKSTEIN RADIO & TELEVISION CO.
(ECKO)
(KARADIO)

MODEL	FROM	THROUGH
The Airport	17-3	17-7
The Amateur	17-3	17-7
The International	17-3	17-7
T-5	17-1	17-2
80-A (The Amateur), 80-B (The Airport), 80-C (The International)	17-3	17-7
1275	20-1	20-2

EDWARD'S FM RADIO CORP.

MODEL	FROM	THROUGH
F-M Tuner	16-1	16-2

ELECTROMATIC MFG. CORP.

MODEL	FROM	THROUGH
A.P.H. 301-A	Misc.17-5	---
A.P.H. 301-B	Misc.17-5	---
A.P.H. 301-C	Misc.17-5	---
607AC	Misc.19-8	---

ELECTRONIC CORP. OF AMERICA
(ECA)

MODEL	FROM	THROUGH
131	17-1	---
132	18-1	18-4
201	Misc.16-3	---
204	17-2	---

ELECTRONIC LABORATORIES, INC.

MODEL	FROM	THROUGH
Orthosonic	16-5	16-7
Radio Utiliphone	16-1	16-4
76RU, Radio Utiliphone, Ch. 2865	16-1	16-4

ELECTRONIC LABORATORIES, INC. (Cont'd)

MODEL	FROM	THROUGH
710PB-AC, 710PB-DC, 710PC-AC, 710PC-DC, Ch. 2887	17-1	17-4
710T, Orthosonic, Ch. 2875	16-5	16-7
2701, Issue B	C17-1	---
2811	16-8	---
	C18-3	---
2865, Ch.	16-1	16-4
2875, Ch.	16-5	16-7
2887, Ch.	17-1	17-4

EMERSON RADIO & PHONOGRAPH CORP.

MODEL	FROM	THROUGH
BF-169, BF-204, BF-207	C18-3	---
FS, Ch.	17-1	17-2
FS-423, Ch. FS	17-1	17-2
FT	17-3	---
GP, Ch.	17-4	17-5
456, Ch. GP	17-4	17-5
503, Ch. 120000, 120029, 120030, 120032, 120035, 120044	16-1	16-3
505, Ch. 120002, 120020, 120041	16-4	16-7
507, 509, Ch. 120004, 120045	16-2	---
	16-8	---
510, Ch. 120000, 120029, 120030, 120032, 120035, 120044	16-1	16-3
510A, Ch. 120035	16-1	16-3
512, Ch. 120006, 120056	15-11	15-12
	C17-1	---
512SW, Ch. 120057A	19-1	---
513, 514, Ch. 120007	17-6	17-8
515, 516, Ch. 120006, 120056	15-11	15-12
	C17-1	---
516SW, Ch. 120057A	19-1	---
518, Ch. 120004, 120045	16-2	---
	16-8	---
520, Ch. 120000, 120029, 120030, 120032, 120035, 120044	16-1	16-3
521, Ch. 120013	17-9	17-10
522, Ch. 120004, 120045	16-2	---
	16-8	---
523, Ch. 120041	16-5	16-7
524, Ch. 120011; 524-2, Ch. 120022	16-9	16-13
525, Ch. 120037	16-2	---
	16-7	---
	16-14	---
528, Ch. 120038	18-1	18-6
530, Ch. 120006, 120056	17-11	17-12
531, Ch. 120040	16-15	16-16
531SW, Ch. 120057A	19-1	---
532, 533, Ch. 120040	16-15	16-16
534, Ch. 120007	17-6	17-8
535, Ch. 120004, 120045	16-2	---
	16-8	---
536, Ch. 120036	17-13	17-15
536A, Ch. 120053A	17-16	17-18
537, Ch. 120043	19-2	19-8
539, Ch. 120000, 120029, 120030, 120032, 120035, 120044	16-1	16-3
540, Ch. 120027, 120042, 120065	18-7	18-9
540A, Ch. 120042A	17-19	17-21
542, Ch. 120031	17-9	17-10
543, 544, Ch. 120046, 120052	16-2	---
	16-17	16-18
546, Ch. 120049	17-22	17-24
547A, Ch. 120050A	17-25	17-27
550, Ch. 120006, 120056	15-11	15-12
	C17-1	---
551A, Ch. 120053A	17-16	17-18
552, Ch. 120037	16-2	---
	16-7	---
	16-14	---
553A, Ch. 120053A	17-16	17-18
554, 555, Ch. 120057A	19-1	---
556, Ch. 120018B	19-9	19-12
557, Ch. 120018B	19-9	19-12
557, Ch. 120048B	18-10	18-11
558, Ch. 120058	17-28	17-29
559, Ch. 120059A	18-12	---
560, Ch. 120016	17-30	17-32

EMERSON RADIO & PHONOGRAPH CORP. (Cont'd)

MODEL	FROM	THROUGH
561, Ch. 120001B	19-13	19-15
563, Ch. 120063B	19-19	19-24
564, Ch. 120027, 120042, 120065	18-7	18-9
565, Ch. 120018B	19-9	19-12
568, Ch. 120070A, 120070B	19-16	19-18
569, Ch. 120062A	18-13	18-15
570, Ch. 120064	18-16	18-17
572, Ch. 120027, 120042, 120065	18-7	18-9
573, Ch. 120039B	19-25	19-28
574, Ch. 120064	18-16	18-17
575, Ch. 120068A, 120068B	20-1	20-5
576, Ch. 120069A	19-29	19-31
577, Ch. 120012B	18-18	18-20
579, Ch. 120034A	19-32	19-34
580, Ch. 120064	18-16	18-17
581, Ch. 120014A, 120014B	20-6	20-8
583, Ch. 120039B	19-25	19-28
586, Ch. 120023B, 120083B	19-35	19-39
587, Ch. 120033A, 120033B	20-9	20-11
590, Ch. 120101A, 120101B	20-12	20-16
591, Ch. 120055A	19-40	19-42
593, Ch. 120063B	19-19	19-24
594, 595, Ch. 120071A	20-6	20-8
596, Ch. 120034A	19-32	19-34
597, Ch. 120073B, 120074A	20-17	20-20
599, 601, Ch. 120075B	20-21	20-23
603, Ch. 120063B	19-19	19-24
605, Ch. 120076B	19-43	19-46
607, Ch. 120073B, 120074A	20-17	20-20
610, Ch. 120100A, 120100B	20-9	20-11
613, Ch. 120085A, 120085B	20-24	20-27
615, Ch. 120001B	19-13	19-15
616, Ch. 120100A, 120100B	20-9	20-11
623, Ch. 120101A, 120101B	20-12	20-16
635, Ch. 120108B	20-12	20-16
643, Ch. 120111A	20-28	20-31
1002, 1003, Ch. 129003	16-19	16-20
120000, Ch.	16-1	16-3
120001B, Ch.	19-13	19-15
120002, Ch.	16-4	16-7
120004, Ch.	16-2	---
	16-8	---
120006, Ch.	17-11	17-12
	C17-1	---
120007, Ch.	17-6	17-8
120011, Ch.	16-9	16-13
120012B, Ch.	18-18	18-20
120013, Ch.	17-9	17-10
120014A, 120014B, Ch.	20-6	20-8
120016, Ch.	17-30	17-32
120018B, Ch.	19-9	19-12
120020, Ch.	16-4	16-7
120022, Ch.	16-9	16-13
120023B, Ch.	19-35	19-39
120027, Ch.	18-7	18-9
120029, 120030, Ch.	16-1	16-3
120031, Ch.	17-9	17-10
120032, Ch.	16-1	16-3
120033A, 120033B, Ch.	20-9	20-11
120034A, Ch.	19-32	19-34
120035, Ch.	16-1	16-3
120036, Ch.	17-13	17-15
120037, Ch.	16-2	---
	16-7	---
	16-14	---
120038, Ch.	18-1	18-6
120039B, Ch.	19-25	19-28
120040, Ch.	16-15	16-16
120041, Ch.	16-5	16-7
120042, Ch.	18-7	18-9
120042A, Ch.	17-19	17-21
120043, Ch.	19-2	19-8
120044, Ch	16-1	16-3
120045, Ch.	16-2	---
	16-8	---
120046, Ch.	16-2	---
	16-17	---
120048B, Ch.	18-10	18-11
120049, Ch.	17-22	17-24
120050A, Ch.	17-25	17-27
120052, Ch.	16-2	---
	16-18	---
120053A, Ch.	17-16	17-18
120055A, Ch.	19-40	19-42
120056, Ch.	17-11	17-12
	C17-1	---

EMERSON RADIO & PHONOGRAPH CORP. (Cont'd)

MODEL	FROM	THROUGH
120057A, Ch.	19-1	---
120058, Ch.	17-28	17-29
120059A, Ch.	18-12	---
120062A, Ch.	18-13	18-15
120063B, Ch.	19-19	19-24
120064, Ch.	18-16	18-17
120065, Ch.	18-7	18-9
120068A, 120068B, Ch.	20-1	20-5
120069A, Ch.	19-29	19-31
120070A, 120070B, Ch.	19-16	19-18
120071A, Ch.	20-6	20-8
120073B, 120074A, Ch.	20-17	20-20
120075B, Ch.	20-21	20-23
120076B, Ch.	19-43	19-46
120083B, Ch.	19-35	19-39
120085A, 120085B, Ch.	20-24	20-27
120100A, 120100B, Ch.	20-9	20-11
120101A, 120101B, Ch.	20-12	20-16
120108B, Ch.	20-12	20-16
120111A, Ch.	20-28	20-31
129003, Ch.	16-19	16-20

EMOR RADIO, LTD.

MODEL	FROM	THROUGH
100	16-1	16-2

EMPIRE DESIGNING CORP.

MODEL	FROM	THROUGH
55	Misc.16-4	---
5´	Misc.16-4	---

EMPIRE MFG. CORP.

MODEL	FROM	THROUGH
G7-801	Misc.19-9	---

ESPEY MFG. CO., INC.

MODEL	FROM	THROUGH
FJ-97A, Ch., Revised	16-1	16-2
7B	17-1,2	17-3,4
7B, Revised	17-5,6	17-7,8
7B, AC-DC	19-1,2	---
7B-1	18-1,2	---
7B-1T	Misc.20-4	---
7B-12	19-3	19-5
501	18-3	18-4
502K	19-6	19-7
509	18-1,2	---
	C20-1	---
511	19-9,10	---
512	19-11,12	---
513	19-13,14	---
514	19-15	---
528	19-8	---
5181	16-3	16-6
10536A	19-16	---
20516	18-5	---

FADA RADIO & ELECTRIC CO., INC.

MODEL	FROM	THROUGH
C33	18-1	---
F711, F750	18-2	18-4
FM16	17-1,2	17-11
P80	17-12	---
P80, Late	18-5	18-7
P82	17-13	17-15
P100	17-14	17-17
P111	20-1	20-3
6A39	17-18	17-20
172	16-1	16-2
368	18-8	18-10
372	17-21	17-23
602	C17-2	---
711, 740	17-15	---
	17-20	---
	17-24	---
	C19-1	---
790	19-1	19-4
790, Series B, etc.	19-5	19-8
795, F-M Tuner	19-9	19-11
830	20-4	20-6
845	20-7	20-9
855	20-10	20-12
1001	17-25	17-27
1005	19-12	19-14

FARNSWORTH TELEV. & RADIO CORP. (CAPEHART)

MODEL	FROM	THROUGH
AC-55, Ch. C2-3	C18-3	---
ACL55, ACL56, AKL58, AKL59	C18-3	---

FARNSWORTH TELEV. & RADIO CORP. (Cont'd)

MODEL	FROM	THROUGH
BT-68	16-1	16-2
C-152, C-153, Ch.	15-7	15-9
	C20-2	---
C-156, C-157, Ch.	16-3	16-5
C-164, Ch.	19-1	19-6
C-170, Ch.	17-3	17-10
	C20-2	---
C-171, Ch.	18-1	18-5
C-172, Ch.	19-1	19-6
C-193, Ch.	16-3	16-5
C-194, Ch.	17-3	17-10
	C20-2	---
C-196, Ch.	17-1	17-3
C-201, C-216, Ch.	17-3	17-10
	C20-2	---
C2-3, Ch.	C18-3	---
EF-451, Ch. C-196	17-1	17-3
EK-081, Ch. C-156; EK-082, Ch. C-157; EK-083, Ch. C-193	16-3	16-5
EK-263, EK-264, EK-265	C17-3	---
EK-681, Ch. C-156	16-3	16-5
ET-060	C17-3	---
ET-061	C17-1	---
	C17-3	---
ET-063, ET-064, ET-065, ET-066	C17-3	---
ET-069	C17-1	---
	C17-9	---
ET-650BRZ, ET-651BKZ, ET-651BUZ, ET-651RDZ, Ch. C-171	18-1	18-5
ET-667BRV, Ch. C-172; ET-667BRX, Ch. C-164; ET-668WTV, Ch. C-172; ET-668WTX, Ch. C-164	19-1	19-6
GK-084, GK-085, GK-086, GK-087	18-6	18-12
GK-100, Ch. C-170; GK-102, Ch. C-194; GK-103, Ch. C-216; GK-104, Ch. C-201	17-3	17-10
	C20-2	---
GK-111, GK-112, GK-113, GK-114, GK-115	17-3	17-10
GK-140, GK-141, GK-142, GK-143, GK-144, Preliminary	16-6	16-11
	18-15	---
	C18-3	---
	C20-2	---
GK-266, Ch. C-152; GK-267, Ch. C-153	15-7	15-9
	C20-2	---
GK-699	17-11	17-16
GP-350	17-17	17-18
GT-050, GT-051	17-19	17-20
GT-060, GT-061, GT-064, GT-065	17-21	---
GT-699	17-11	17-16
K-084, K-086	18-6	18-12
	C20-1	---
K-262P	19-7	19-9
K-267, Ch. C-153	15-7	15-9
	C20-2	---
K-287P	18-6	18-12
K-289	18-6	18-12
	C20-1	---
K-699, Ch. C-152	15-7	15-9
	C20-2	---
N4 Series, Capehart	19-10	19-18
P4 Series, Capehart	19-10	19-18
P7, P9, P10 Series, Capehart	19-19	19-33
	C20-2	---
P-860	18-13,14	---
19N3, Panamuse	18-17	18-44
19N4, Capehart	19-10	19-18
21N2, Panamuse	18-17	18-44
21P4, Capehart	19-10	19-18
24N4, Capehart	19-10	19-18
24P4, Capehart	19-10	19-18
25N2, 26N2, Panamuse	18-17	18-44
26N4, Capehart	19-10	19-18
29P4, 30P4, Capehart	19-10	19-18
31N4, Capehart	19-10	19-18
31P4, Capehart	19-10	19-18
32P9, 33P9, 34P10, 35P7	19-19	19-33
100N Series, Capehart	18-16	18-44
114N4, Capehart	19-10	19-18
116N4, Capehart	19-10	19-18

FARNSWORTH TELEV. & RADIO CORP. (Cont'd)

MODEL	FROM	THROUGH
116P4, Capehart	19-10	19-18
118P4, Capehart	19-10	19-18
400M Series, Capehart	19-34	19-54
400N Series, Capehart	18-16	18-44

FEDERAL RECORDER CO. DIV. C.G. CONN, LTD.

MODEL	FROM	THROUGH
Little Pro	20-8	20-9
PR-12	20-1	20-7
12LP, Little Pro	20-8	20-9
12LP, Revised	20-10	20-16
101	20-17	20-19
106	20-27	20-28
111, 116	20-20	20-21
118, 119	20-22	20-24
201	20-25	20-26
211	20-27	20-28
301	20-29	20-30
306, 311	20-31	20-32
401, 402, 403, 404, 405, 406, 407	20-33	20-35

FEDERAL TEL. & RADIO CORP.

MODEL	FROM	THROUGH
1021	16-5	16-8
	C20-3	---
1024TB	17-1	17-3
	C20-3	---
1025TB	16-1	16-4
1027	16-1	16-4
	C19-1	---
1028TB, 1029	17-1	17-3
	C20-3	---
1030T	16-5	16-8
1031, 1032	16-5	16-8
	C20-3	---
1034	17-1	17-3
	C19-1	---
1035	16-1	16-4
	C19-1	---
1040TB	17-4	17-6
1540	16-5	16-8
	C20-3	---
1540T	16-5	16-8
6001 PO	19-1	19-2

FERGUSON RADIO CORP.

MODEL	FROM	THROUGH
5X47	Misc.16-5	---
7X47	Misc.16-5	---

FERRAR RADIO & TELEVISION CORP.

MODEL	FROM	THROUGH
C61B	17-1	17-4
T61B	17-5	17-7
TA61B	17-8	17-11

THE FIRESTONE TIRE & RUBBER CO. (AIR CHIEF)

MODEL	FROM	THROUGH
Brilliantone	16-11	---
	16-14	---
Diplomat	17-7	17-9
Georgian	17-22	17-29
The Journal	19-27	19-29
The Marlborough	18-34	18-40
Mercury	17-5	17-7
The Metropolitan	18-34	18-40
The Narrator	18-7	18-10
The Newscaster	18-24	18-26
Reporter	17-12	17-14
The Sunrise	19-30	19-32
R-3157A	12-6	---
	12-19,20	12-21
	C19-1	---
S-7402-8	20-1	20-2
S-7404-9	17-1	17-4
S-7425-1	19-1	---
4-A-1, Mercury	17-5	17-7
4-A-3, Diplomat	17-7	17-9
4-A-10, Reporter	17-12	17-14
4-A-10, Late	18-1	18-3
4-A-11	18-4	18-6
4-A-12, The Narrator	18-7	18-10
4-A-15	18-11,12	18-23
4-A-17	16-1	16-2
	16-9	---
4-A-26, The Newscaster	18-24	18-26
4-A-27, Cameo	17-15	17-16

THE FIRESTONE TIRE & RUBBER CO. (Cont'd)

MODEL	FROM	THROUGH
4-A-30	18-27,28	18-31
4-A-37	17-17	17-21
4-A-39	20-3	20-8
4-A-40	20-9	20-12
4-A-41	17-7	---
	17-10	17-11
4-A-42, Georgian	17-22	17-29
4-A-60	19-2	19-15
4-A-61, The Cameo	18-32	18-33
4-A-62, The Marlborough; 4-A-63, The Metropolitan	18-34	18-40
4-A-64, 4-A-65	19-16	19-23
4-A-67	19-24	19-26
4-A-68, The Journal	19-27	19-29
4-A-69, The Sunrise	19-30	19-32
4-B-6	17-30	17-34
4-B-31, The Roamer	19-33	19-37
4-C-3	19-38	19-40
4-C-13	19-41	19-43
7379-1	16-3	16-5
7383-4	16-6	16-8
7384-2	17-35	17-36
7396-1	16-9	16-11
7402-4	C18-3	---
7402-6, Roamer	16-8	---
	16-12	16-13
7403-1, Brilliantone	16-11	---
	16-14	---
7405-2	17-37	17-38
7405-3	16-3	16-5
7405-4	17-37	17-38
7406-1	16-3	16-5
7423-5	C18-3	---
7423-6	C17-2	---

FM SPECIALTIES, INC.

MODEL	FROM	THROUGH
Fidelotuner	17-1	17-4
	C18-3	---
Fidelotuner, Revised	18-1	18-2

FONOTALK CORP.

MODEL	FROM	THROUGH
500BI, 500BW	Misc.18-5	---

FORD MOTOR CO.

See ZENITH RADIO CORP.

GAMBLE-SKOGMO, INC. (CORONADO)

MODEL	FROM	THROUGH
7P Series	18-1	18-3
43-5005	17-1	17-7
43-5006	19-1	19-4
43-6301	17-8	17-10
43-6321	18-4	18-7
43-6485	20-1	20-2
43-6730	20-3	20-4
43-6927	19-5	19-10
43-6951	19-11	19-16
43-7601, 43-7601A, 43-7601B	16-1	16-5
	C17-3	---
43-7602	16-1	16-6
43-7603, 43-7604	19-17	19-22
43-7651, 43-7652	19-23	19-29
43-7660	18-8	18-14
43-7660B	20-5	20-9
43-7851	19-30	19-35
43-8129A, 43-8130A, 43-8130B, 43-8131A, 43-8131B	19-36	19-37
43-8160	16-7	16-9
43-8177, 43-8178, 43-8179	17-11	17-13
43-8180	17-14	17-16
43-8213	15-1	---
	17-17	17-18
43-8240, 43-8241	17-19	17-22
43-8305	17-23	17-26
43-8312	17-27	17-29
43-8351, 43-8352	17-30	17-33
43-8437	16-10	16-12
43-8470	17-34	17-37
43-8471	17-37	17-40
43-8576	16-2	---
	16-13	16-16
43-9196	17-16	---
	17-41	17-42
43-9201	17-43	17-45
43-9751	17-26	---
	17-46	17-47

MODEL	FROM	THROUGH
GAMBLE-SKOGMO, INC. (Cont'd)		
43-9865	19-38	19-39
94RA1-43-6945A	20-10	20-13
94RA1-43-6945B	20-14	20-17
94RA1-43-7605A	20-18	20-21
94RA1-43-7656A, 94RA1-43-7657A	20-22	20-26
94RA1-43-7751A	20-27	20-30
94RA1-43-7853A	20-31	20-34
94RA1-43-8510A	20-35	20-38
94RA1-43-8520B	20-39	20-42
94RA1-43-8511A	20-35	20-38
94RA1-43-8511B	20-39	20-42
94RA2-43-9195A	20-43	20-44
94RA31-43-8115A, 94RA31-43-8115B, 94RA31-43-8116A	20-45	20-47
94RA31-43-9841A	20-48	20-51
94RA33-43-8130C, 94RA33-43-8131C	20-52	20-53
GAROD RADIO CORP.		
The Companion	16-2	---
The Ensign	16-1	16-2
The Thriftee	19-1	---
BP24, BP25	17-1	17-2
3AP	17-3	---
4A1, 4A2	17-4	17-5
4AP	17-3	---
4B1	18-1	18-2
5A1, The Ensign	16-1	16-2
5A2-Y	17-6	---
5A3	18-3	---
5A4, The Thriftee	19-1	---
5AP1-Y, The Companion	16-2	---
5D3, 5D3A	16-3	16-4
5D5	17-7	17-8
5K-1	Misc.20-5	---
5RC-1	17-9	---
6A	17-10	---
6A2	17-11	---
9FMP, 9FMPA, 9FMPU	18-4	18-5
11FMP	19-2	19-4
62B	18-6	18-7
306	18-8	---
GENERAL ELECTRIC CO.		
Musaphonic	17-1,2	17-15
	C19-2	---
A51, A56	C17-10	---
	C18-3	---
GB-400	17-24	17-25
GD-50	19-1	---
GD-506	19-1	---
GD-510, GD-511, GD-512, GD-512W, GD-512X, GD-513	18-2	18-3
GD-550	19-1	---
H-639AC-DC	C18-3	---
L-604	C18-3	---
LB-673	17-25	17-26
LM1A, Charging Cable	18-1	---
X-415	18-4	18-12
XFM-1	19-2	19-7
YRB60-12	C18-3	---
YRB79-1, YRB79-2, YRB83-1	17-19	17-20
YRB92-2	C18-3	---
4SJ3A1	20-1	20-2
41, 42, 43, Musaphonic	17-1,2	17-15
	C19-2	---
	C20-3	---
44, 45, Musaphonic	17-1,2	17-15
	C19-2	---
50	15-1	15-4
	C19-2	---
	C20-3	---
60, 62	17-16	17-18
64, 65	20-3	20-8
66, 67, Clock Radio	20-9	20-12
102, 102W, 107, 107W	18-13	18-14
112	18-15	18-16
113	18-17	18-18
114, 114W, 115, 115W	18-13	18-14
118, 119M, 119W	19-8	19-10
	C20-3	---
123, 124	20-13	20-15
135, 136	20-16	20-18
140	17-21	17-23
	C19-2	---
141, 143	20-19	20-22
145	19-13	19-16
	C20-4	---

MODEL	FROM	THROUGH
GENERAL ELECTRIC CO. (Cont'd)		
150	19-10	19-12
	C20-4	---
160	19-17	19-21
	C20-4	---
165	20-23	20-26
180	16-1	16-2
200	18-19	18-20
201, 202	18-19	18-20
	C20-4	---
203, 205	18-19	18-20
210, 211, 212	18-21	18-25
	C19-2	---
	C20-5	---
219, 220, 221	15-28	15-31
	C17-10	---
	C18-3	---
	C20-5	---
226	20-27	20-29
230, Kaiser-Frazer	18-26	18-28
	C19-2	---
	C20-4	---
233, Kaiser-Frazer	18-29	18-36
	C20-4	---
250	15-32	15-36
	C17-3	---
	C19-1	---
	C20-5	---
254	16-3	16-5
	C18-3	---
260	16-6	16-12
	C18-3	---
	C20-5	---
280	16-13	16-16
304	18-37	18-39
321A	15-46	15-52
	C20-5	---
324, 328	19-22	19-27
329, 330	20-30	20-31
354, 355	19-28	19-35
356, 357, 358	18-40	18-44
	C20-5	---
376, 377, 378	19-36	19-41
	C20-5	---
417	16-16	16-24
	C20-5	---
417A	17-27,28	17-38
	C17-2	---
	C20-5	---
502	17-4	17-7
	17-39,40	17-47
	C19-2	---
801	16-25,26	16-38
GENERAL IMPLEMENT CORP.		
1A5	17-1	17-2
9A5	Misc.19-10	---
GENERAL MOTORS CORP. See UNITED MOTORS SERVICE		
GENERAL TELEVISION & RADIO CORP.		
4B5	16-1	16-2
5A5	19-1	19-2
5B5	16-2	16-4
6C5	19-3	19-4
9A5	16-2	---
	16-4	16-5
9B6P	18-1	---
14A4F	19-5	19-6
17A5	19-7	19-8
20A3A, 20A3P	17-1	---
21A4	18-2	---
22A5C	18-3	---
23A6	16-2	---
	16-4	---
	16-6	---
24B6	16-2	---
	16-4	---
	16-7	16-8
25B5	16-2	---
	16-4	---
	16-9	16-10
26B5	17-2	17-4
27C5L	18-4	---
526, 534, 547, 549, 558, 588, 591 (Single-ended tubes)	18-5	---

GENERAL TELEVISION & RADIO CORP. (Cont'd)

MODEL	FROM	THROUGH
526, 534, 547, 549, 558, 588, 591 (Double-ended tubes)	18-6	---
635	19-9	---

GILFILLAN BROS., INC.

MODEL	FROM	THROUGH
Overland	16-3	---
56A, 56B, 56C, 56D, 56E	16-1	---
58M, 58W	18-3	---
66AM	16-2	---
66B, Series 2, Series 3, Overland	16-3	---
66DM	16-2	---
66PM	16-4	---
68-48	18-1,2	---
68B, 68D	18-4	---
68F	17-1	17-2
86 Series	16-5	16-6
108C-M	17-3,4	17-5,6
118C-M	17-7,8	17-9,10

GLOBE ELECTRONICS, INC.

MODEL	FROM	THROUGH
454	18-1	18-3
552	19-1	19-2
558	19-3	19-4
559	19-5	19-6

THE B.F. GOODRICH CO. (MANTOLA)

MODEL	FROM	THROUGH
AG, Ch.	19-22	19-23
R-635	16-1	16-4
R-655W	C18-3	---
R-661	16-5	16-6
R-685	18-1	18-2
R-743-W	17-1	17-2
R-75152	17-3	17-5
R-76162	17-10	17-12
R-76262	17-13	17-15
R-78162, R-78262	18-3	18-10
W, Ch.	19-26	19-29
11-701	19-1	19-3
92-523, 92-524, 92-525, 92-526	20-1	20-6
93-104, 93-105, 93-106	19-4	19-10
93-107, 93-108	19-11	19-17
75434	17-6	17-7
76143	17-8	17-9
92502	18-11	18-12
92503, 92504	19-18	19-19
92505, 92506	19-20	19-21
92514, 92515, Ch. AG	19-22	19-23
92516, 92517	19-24	19-25
92752, Ch. W	19-26	19-29

GOTHAM

See HAROLD SHEVERS, INC.

W.W. GRAINGER CO. (DAYTON)

MODEL	FROM	THROUGH
1R73, See FONOTALK Model 500BI	Misc.18-5	---
1R74, See FONOTALK Model 500BW	Misc.18-5	---

W.T. GRANT CO. (GRANTLINE)

MODEL	FROM	THROUGH
Series H, Ch.	Misc.19-11	---
Series R, Ch.	Misc.19-11	---
300, Series B	17-1	---
405/7	17-2	---
500, 501, Series A	16-1	16-2
	16-5	---
502, 503, Series A	16-3	16-5
510, Series A	16-6	16-8

GRANTLINE

See W.T. GRANT CO.

THE HALLICRAFTERS CO.

MODEL	FROM	THROUGH
Sky Courier	19-1	19-5
Skyranger	16-20	16-28
Skyrider Panoramic	17-1	17-5
	C18-3	C18-4
Super Skyrider	16-3,4	16-16
CA-2	18-1	18-5
EC-1B, Echophone	16-1	16-2
EC-306	18-6	18-9

THE HALLICRAFTERS CO. (Cont'd)

MODEL	FROM	THROUGH
EC-403, Echophone	16-29,30	16-36
EC-403, Revised	20-14	20-21,22
EC-404, Echophone	16-29,30	16-36
EC-404, Revised	20-14	20-21,22
EX-102, EX-103	20-1	20-4
EX-104, EX-106	20-5	20-13
EX-306	18-6	18-9
RE-1, Sky Courier	19-1	19-5
S-38	C17-3	---
S-39, Skyranger	16-20	16-28
S-40	C17-3	---
S-40A	C18-3	---
S-47	17-17,18	17-29
S-51	20-23,24	20-33
S-53	19-6	19-13
S-55, S-56	19-14	19-22
S-58	19-23	19-28
S-59	19-29	19-34
S-72	20-34	20-39,40
SP-44, Skyrider Panoramic	17-1	17-5
	C18-3	C18-4
SX-28A, Super Skyrider	16-3,4	16-16
SX-42	17-6	17-16
	C18-4	---
	C19-3	---
SX-43	18-10	18-28
SX-62	20-41,42	20-51
400, 406, 409, 410, 411, 412	19-35,36	19-45
414	19-46	19-53

HEATH CO.

MODEL	FROM	THROUGH
FM-1, FM Tuner	20-1	20-4

HOFFMAN RADIO CORP. (MISSION BELL)

MODEL	FROM	THROUGH
A202, A309, Ch. 119	16-1	16-2
A700, Ch. 110S	16-4	---
B400, Ch. 118	16-2	16-3
B502, Ch. 113	17-1	17-6
B503, Ch. 115	15-9	---
	17-8	17-13
B504, Ch. 123	17-1	---
	17-3,4	17-7
B508, B509, B510, Ch. 129	18-1	18-2
B1000, Ch. 114	17-10	17-13
C501, Ch. 108	15-6	15-10
	C20-5	---
C502, Ch. 113	17-1	17-6
	C19-3	---
C504	17-1	---
	17-3,4	17-7
	C19-3	---
C511, Ch. 108	15-6	15-10
	C20-5	---
C512, Ch. 113	17-1	17-6
	C19-3	---
C514	17-1	---
	17-3,4	17-7
	C19-3	---
C530, Ch. 137	20-1	20-6
C1006, C1007, Ch. 131, 132	18-3	18-8
108, Ch.	15-6	15-10
	C20-5	---
110S, Ch.	16-4	---
113, Ch.	17-1	17-6
	C19-3	---
114, Ch.	17-10	17-13
115, Ch.	15-9	---
	17-8	17-13
118, Ch.	16-2	16-3
119, Ch.	16-1	16-2
123, Ch.	17-1	---
	17-3,4	17-7
129, Ch.	18-1	18-2
131, 132, Ch.	18-3	18-8
137, Ch.	20-1	20-6
530, Ch. 137	20-1	20-6

HOWARD RADIO CO.

MODEL	FROM	THROUGH
FM-718	17-20	17-21,22
M901-A	16-1	---
472-AC, 472-AF	17-4	17-10
472-C, 472-F	17-1	17-7
474	17-11	17-14
481-A	19-1	---
481-B, 481-C, 481-M	18-1	18-6

HOWARD RADIO CO. (Cont'd)

MODEL	FROM	THROUGH
482, 482-A	19-2	19-7
718, Series X	17-15	17-19
718-FM-5-6	17-23	17-28
901-A	16-1	---
	C17-4	---
901-AP-A	16-2	---
902-A	18-7	18-8
906	16-3	16-4
906-C	16-4	16-6
906-S	17-29	17-33
906-SB	18-9	18-11
909-M	17-34	17-37
909-MR	C18-4	---

HUDSON MOTOR CAR CO.
See ZENITH RADIO CORP.

INTERNATIONAL DETROLA CORP.
(DETROLA)

MODEL	FROM	THROUGH
339, 340, 340-1	C18-4	---
582	16-1	16-4
626, with loctal tubes	17-1	---
626, with miniature tubes	17-2	---
626, with octal tubes	17-3	---
2744	C18-4	---
7156	17-4	17-6
7270	16-3	---
	16-5	16-6
7901	17-7	17-12

INTERSTATE HOME EQUIPMENT CORP.

MODEL	FROM	THROUGH
68F	Misc.18-6	---

INTERSTATE STORES BUYING CORP.
(PLYMOUTH)

MODEL	FROM	THROUGH
501	20-1	20-2
503	20-3	20-4

JEWEL RADIO CORP.

MODEL	FROM	THROUGH
Pixie	19-3	19-4
Trixie	19-5	19-7
300	19-1	19-2
304, Pixie	19-3	19-4
500	18-1	18-4
505, Clock Radio	18-5	18-7
801, Trixie	19-5	19-7
814	19-8	19-9
910	20-1	---
920A	20-2	---
921, 935, 936	20-3	20-4
949	20-5	---
955	20-6	---
964	20-7	---
970	20-8	---
980	20-9	---

KAISER-FRAZER
See GENERAL ELECTRIC CO.

THE KAPPLER CO.

MODEL	FROM	THROUGH
102T, Tuner	19-1	19-3

KARADIO
See ECKSTEIN RADIO & TELEVISION CO.

KAROLA
See RADIO & TELEVISION PRODUCTS CO.

KERNWOOD RADIO CORP.

MODEL	FROM	THROUGH
5-Tube, AC-DC	Misc.19-12	---

KETAY MFG. CORP.

MODEL	FROM	THROUGH
RP507T	Misc.15-8	---
	C20-5	---

KNIGHT
See ALLIED RADIO CORP.

W.T. KNOTT CO., INC.
(CROMWELL)

MODEL	FROM	THROUGH
205	Misc.17-6	---

KRAFT MFG. & DISTRIBUTING CO.

MODEL	FROM	THROUGH
Puppytune	Misc.19-13	---

LAFAYETTE
See RADIO WIRE TELEVISION

LA MAGNA MFG. CO.
(LAMCO)

MODEL	FROM	THROUGH
3000	18-1	18-3

LAMCO
See LA MAGNA MFG. CO.

LAUREHK RADIO MFG. CO.

MODEL	FROM	THROUGH
L-52	Misc.16-6	---

LEANDER ELECTRONICS CORP.

MODEL	FROM	THROUGH
707	17-1	17-3

LEAR, INC.

MODEL	FROM	THROUGH
565, 565BL, 566, 567, 568	16-1	16-3
662, 663, 665	16-4	16-6
667PC	Misc.18-7	---
861-PC, 1281-PC	19-1	19-5
6610, 6610PC, 6611, 6611PC, 6612, 6612PC, Early and Late Production	17-1	17-6
6614, 6615, 6616	16-7	---
6617PC	16-5	16-6
	16-8	---
6618	16-4	16-6
6619	16-7	---

LINCOLN, LINCOLN-CONTINENTAL, LINCOLN-MERCURY, LINCOLN-ZEPHYR
See ZENITH RADIO CORP.

LINCOLN RADIO
See CONCORD RADIO CORP.

LYTLE & CANON

MODEL	FROM	THROUGH
6A47WT, 6A47WTR, 6AWC2, 6AWC3	20-1	20-9

MAGIC TONE
See RADIO DEVELOPMENT & RESEARCH CORP.

MAGNA ELECTRONICS CO.

MODEL	FROM	THROUGH
M300-6, M400-6	Misc.17-7	---

THE MAGNAVOX CO.

MODEL	FROM	THROUGH
Playfellow	20-1	20-4
AMP-101A	17-1	17-2
AMP-101C	17-1	17-2
	C20-5	---
AMP-108	17-3,4	17-6
AMP-109	18-1,2	18-3
AMP-109B, AMP-109C, AMP-109D	18-1,2	18-3
	C20-6	---
AMP-110	17-7,8	17-10
AMP-111	18-4	18-7
AMP-111D, AMP-111E	18-4	18-7
	C20-5	---
AMP-116	19-23,24	19-25
CR-190	C17-4	---
CR-197, CR-197A, CR-197B, CR-197C, CR-197D, CR-197E	16-1,2	16-7
	C20-6	---
CR-198, CR-198A, CR-198B, CR-198C, CR-198D, CR-198E, CR-198F, CR-198H, CR-198J	16-5	16-11
	C20-6	---
CR-199	16-12	16-16
CR-200 Series	18-8	18-15
CR-202, CR-202A, CR-202B, CR-202C, CR-202D	18-16	18-25,26
	C20-6	---
CR-203A, CR-203B	17-11,12	17-17
CR-204 Series	18-27,28	18-37
CR-206	19-1,2	19-7
CR-207A, CR-207B, CR-207C, CR-207D	17-13	---
	17-18	17-24
CR-208A, CR-208B	17-13	---
	17-25,26	17-31
CR-208C	17-13	17-25,26
	C20-7	---
CR-209A, CR-209B, CR-209C, CR-209D, CR-209E	19-8	19-15
CR-210A, CR-210B, CR-210C	19-16	19-21,22
CR-215, Ch.	20-1	20-4
CR-216	20-5	20-13

MODEL	FROM	THROUGH
THE MAGNAVOX CO. (Cont'd)		
CR-217	20-14	20-25,26
CR-223	20-27,28	20-35
CR-229	20-36	20-43,44
CR-231	20-45,46	20-57
CR-233	20-58	20-66
130, Playfellow, Ch. CR-215	20-1	20-4
MAGUIRE INDUSTRIES, INC.		
6K	Misc.19-14	---
6X	Misc.18-8	---
MAJESTIC RADIO & TELEVISION CORP.		
5A445, 5A445R	16-1	16-2
5AK711, Ch. 5B01A	17-1	17-2
5AK731, 5AK780, Ch. 5B05A	17-3	17-4
5AK781	17-3	17-4
	C19-4	---
5B01A, Ch.	17-1	17-2
5B05A, Ch.	17-3	17-4
6B02D, Ch.	18-1	18-2
6B11D, Ch.	18-3	18-4
6C14D, Ch.	18-3	18-4
	C20-7	---
6FM714, Ch. 6B02D	18-1	18-2
6FM769, Ch. 6C14D	18-3	18-4
	C20-7	---
6FM773, Ch. 6B11D	18-3	18-4
6FM783, Ch. 6C14D	18-3	18-4
	C20-7	---
7B04A, Ch.	17-7	17-10
7BK758	17-5	17-6
	C19-4	---
7C11D, Ch.	20-5	20-8
7C13D, Ch.	20-1	20-4
7C432, 7C447, Ch. 4706, 4707	16-3	16-4
7FM867, Ch. 7C13D	20-1	20-4
7FM877, 7FM888, Ch. 7C11D	20-5	20-8
7JK777R, Ch. 4708R	17-5	17-6
7P420, Ch. 4705	18-5	18-7
7YR752, Ch. 7B04A	17-7	17-10
8B06D, Ch.	17-11,12	17-16
8B07D, Ch.	17-17,18	17-22
	C18-4	---
8C07D, Ch.	20-9	20-13
8FM744, Ch. 8B06D	17-11,12	17-16
8FM776, Ch. 8B07D	17-17,18	17-22
8FM783, Ch. 8B07D	17-17,18	17-22
	C18-4	---
8FM889, Ch. 8C07D	20-9	20-13
8JL771A, Ch. 4810A	17-23	17-26
8JL885, Ch. 4810B	18-8	18-10
8S473	C17-4	---
10B27E	19-1,2	19-6
10C23E, Ch.	20-14	20-18
10FM782	19-1,2	19-6
10FM891, Ch. 10C23E	20-14	20-18
12B26E, Ch.	17-27,28	17-33
12C20E, Ch.	17-27,28	17-33
	C19-4	---
12C22E, Ch.	20-19	20-23
12FM475, Ch. 41201; 12FM778, 12FM779, Ch. 12B26E	17-27,28	17-33
12FM782, Ch. 12C20E	17-27,28	17-33
	C19-4	---
12FM895, Ch. 12C22E	20-19	20-23
4705, Ch.	18-5	18-7
4706, 4707, Ch.	16-3	16-4
4708R, Ch.	17-5	17-6
4810A, Ch.	17-23	17-26
4810B, Ch.	18-8	18-10
41201, Ch.	17-27,28	17-33

MANTOLA
See THE B.F. GOODRICH CO.

MODEL	FROM	THROUGH
McMURDO SILVER CO., INC.		
801	20-1	20-3
802	20-4	20-6
JOHN MECK IND., INC.		
F-M Converter	19-1	19-2
CA-500	19-4	---
CB-500	19-3	---
CD-500	18-2	---
CG-500	19-3	---
JOHN MECK IND., INC. (Cont'd)		
DA-601, DB-602, Ch. 4D7	19-5	---
	C20-7	---
DE-640, DF-641	18-1	18-2
EC-720, ED-721, Ch. 5A9	20-1	---
EF-730, EG-731	20-2	---
EV-760	20-1	---
4B7	20-1	---
4D7, Ch.	19-5	---
	C20-7	---
4D8	18-3	---
4F8	20-1	---
4H8	18-3	---
5A7	19-3	---
5A9, Ch.	20-1	---
5B5	19-3	---
5C5, 5D7-W18	19-4	---
5G8	18-4	---
5H8	18-4	---
6B8	19-5	---
MEISSNER MFG. DIV. MAGUIRE INDUSTRIES, INC. (BREWSTER)		
5A	17-9	---
5B	20-1	---
6D	C17-4	---
6H	17-10	---
8C	17-1	17-4
8C, 8CK, Revised	20-2	20-6
9-1053, 9-1054	18-1	18-4
9-1065	16-1	16-3
9-1091A, 9-1091B	17-5	17-8
9-1091C	19-1	19-6
9-1093	18-5	18-8
10-1193	18-9	---
10-1199	18-10	18-12
16A	20-7	20-12
574	17-9	---
661	17-10	---
2961	19-7,8	19-21
MERCANTILE STORES CO., INC. (N.Y.) (CROMWELL)		
1010	20-1	20-2
1020	20-3	20-4

MERCURY CAR
See ZENITH RADIO CORP.

MODEL	FROM	THROUGH
MICRO-ELECTRONIC PRODUCTS, INC.		
Micro Pocket Radio	20-1	20-2
MIDWEST RADIO CORP.		
C-12, Ch. JC-12	20-1	20-3
C-16, Ch. JC-16	20-4	20-8
JC-12, Ch.	20-1	20-3
JC-16, Ch.	20-4	20-8
LB-16, Ch.	19-4	19-6
LC-12, Ch.	19-1	19-3
P-6, PB-6	17-1	17-3
R-8, Ch. RTM-8	18-1	18-3
R-12, Ch. RGT-12	18-4	18-6
R-16, Ch. RGT-16	18-7	18-12
RB-12, Ch. LC-12	19-1	19-3
RB-16, Ch. LB-16	19-4	19-6
RC-12, Ch. JC-12	20-1	20-3
RC-16, Ch. JC-16	20-4	20-8
RG-12, Ch. RGT-12	18-4	18-6
RG-16, Ch. RGT-16	18-7	18-12
RGT-12, Ch.	18-4	18-6
RGT-16, Ch.	18-7	18-12
RM-8, Ch. RTM-8	18-1	18-3
RT-12, Ch. RGT-12	18-4	18-6
RT-16, Ch. RGT-16	18-7	18-12
RTM-8, Ch.	18-1	18-3
S-8	17-4	17-6
S-12, Ch. SGT-12	16-1	16-4
S-16, Ch. SGT-16	16-4	16-12
SC-12, Ch. LC-12	19-1	19-3
SC-16, Ch. LB-16	19-4	19-6
SG-12, Ch. SGT-12	16-1	16-4
SG-16, Ch. SGT-16	16-4	16-12
SGT-12, Ch.	16-1	16-4
SGT-16, Ch.	16-4	16-12
SK-12, Ch. JC-12	20-1	20-3
SK-16, Ch. JC-16	20-4	20-8
ST-8	17-4	17-6

MIDWEST RADIO CORP. (Cont'd)

MODEL	FROM	THROUGH
ST-12, Ch. SGT-12	16-1	16-4
ST-16, Ch. SGT-16	16-4	16-12
TM-8	17-4	17-6
8X12, Ch. RGT-12	18-4	18-6
88, 88A, Ch. RTM-8	18-1	18-3
98	18-1	18-3
	C19-4	---
712, Ch. SGT-12	16-1	16-4
716, 716A, Ch. SGT-16	16-4	16-12
816, Ch. RGT-16	18-7	18-12
916, Ch. LB-16	19-4	19-6
922, Ch. LC-12	19-1	19-3

MINERVA CORP. OF AMERICA

MODEL	FROM	THROUGH
W702	18-1	18-3
W725	19-1	19-2
W729, Portapal	18-4	18-6
729, Portapal	16-1	16-2
410, 411	19-3	19-4

MISSION BELL

See HOFFMAN RADIO CORP.

MITCHELL MFG. CO.

MODEL	FROM	THROUGH
Lullaby Bed Lamp Radio	Misc.18-9	---
1260	20-1	20-2

MOLDED INSULATION CO.

MODEL	FROM	THROUGH
RS-1	16-1	---
RS-1A	16-2	---

MONITOR EQUIPMENT CORP.

MODEL	FROM	THROUGH
M-403	16-3	16-4
M-500	19-1	19-2
M-510	16-5	16-6
M-3070	17-1	17-4
RA-50	17-5	17-6
RAM-47	18-1	18-2
TA-56M, TC-56M, TW-56M	16-1	16-2

MONTGOMERY WARD (AIRLINE)

MODEL	FROM	THROUGH
04BR-420B	C18-4	---
14WG-635B	C18-4	---
54KP-1209B	16-1	16-4
54WG-2700A	C17-5	---
62-49, 62-68, 62-68X, 62-88	17-1	17-2
64BR-916A	17-3	---
64BR-916B	17-4	---
64BR-1051A	C17-4	---
64BR-1051B	C17-4	---
64BR-1513A, 64BR-1514A	17-5	17-8
64BR-1808A	17-9	17-14
64WG-1050B, 64WG-1050C	15-75	15-77
	C19-5	---
64WG-1050D	15-75	15-77
	C18-4	---
	C19-5	---
64WG-1052B	16-5	16-7
64WG-1207A, 64WG-1207B	16-3	---
	16-8	16-10
64WG-1804B	C18-4	---
64WG-1804C	16-3	---
	16-10	16-12
	C17-4	---
64WG-1807B	C17-10	---
	C18-5	---
64WG-2009B	C17-5	---
64WG-2010A, 64WG-2010B	16-13	16-17
64WG-2500B	C18-5	---
64WG-2700A	C17-5	---
64WG-2700B	C17-5	---
	C18-5	---
74BR-1053A	17-15	17-17
74BR-1055A	17-18	17-20
74BR-1501B, 74BR-1502B	17-21	17-23
74BR-1507A, 74BR-1508A	17-24	17-25
74BR-1513B, 74BR-1514B	17-5	17-8
74BR-1812A	16-17	16-21
74BR-1812B	C18-5	---
74BR-2001A	17-26	17-28
74BR-2003A, 74BR-2003B	17-29	17-31
74BR-2003C	C18-5	---
74BR-2702A, 74BR-2702B	17-32	17-38
74BR-2707A	18-1	18-9

MONTGOMERY WARD (Cont'd)

MODEL	FROM	THROUGH
74BR-2708A, 74BR-2708B, 74BR-2708C	18-15	18-22
74BR-2710A	18-5,6	18-7,8
	18-10	18-14
74BR-2715A	18-23	18-30
74BR-2717A	18-31	18-34
74KR-1210A	17-39	17-41
74KR-2706A, 74KR-2706B, 74KR-2713A	17-43	17-46
74WG-1050B	C18-4	---
74WG-1050D	15-75	15-77
	C19-5	---
74WG-1052B	16-5	16-7
74WG-1054A	C17-5	---
74WG-1056A	17-47	17-49
	C18-6	---
74WG-1057A	17-50	17-52
74WG-1207B	16-3	---
	16-8	16-10
74WG-1509A, 74WG-1509B	17-53	17-56
74WG-1510A, 74WG-1510B	17-53	17-56
74WG-1801C	C18-5	---
74WG-1801D	C18-5	---
74WG-1802A, 74WG-1803A	17-57	17-59
74WG-1804B	C18-4	---
74WG-1804C	C17-4	---
74WG-1804D, 74WG-1805A	17-60	17-62
74WG-1807B	C17-10	---
	C18-5	---
74WG-2002A	17-63	17-65
74WG-2004A	17-58	17-59
	17-66	---
74WG-2009B	C17-5	---
74WG-2010B	16-13	16-17
74WG-2500B	C18-5	---
74WG-2504A, 74WG-2504B, 74WG-2504C	17-67	17-71
74WG-2505A	16-16	---
	16-22	16-26
74WG-2700A	C17-5	---
74WG-2703A	16-27	16-30
74WG-2704A, 74WG-2704B, 74WG-2704C	17-67	17-71
74WG-2705A	16-16	---
	16-22	16-26
74WG-2705B	C17-5	---
74WG-2709A	17-72	17-75
74WG-2711	C18-5	---
84BR-1065A	18-35	18-37
84BR-1503D, 84BR-1504D	18-38	18-40
84BR-1507B, 84BR-1508B	18-41	18-43
84BR-1515A, 84BR-1516A	18-44	18-46
84BR-1517A, 84BR-1518A	19-1	19-3
84BR-1815A, 84BR-1816A	18-44	18-46
84BR-2003C	19-4	19-6
84BR-2005A	19-7	19-8
84BR-2715A, 84BR-2715B	18-23	18-30
84BR-2715C	19-9	19-13
84BR-2715D	19-14	19-18
84BR-2719A	19-19	19-24
84BR-2719B	19-25	19-29
84BR-2722A	19-9	19-13
84BR-2726A	19-30	19-34
84BR-2726B	20-1	20-5
84BR-2733A	20-6	20-10
84GCB-1062A	18-47	18-48
84HA-1527A, 84HA-1528A	19-35	19-37
84HA-1810A	19-38	19-41
84HA-1810C	19-42	19-45
84HA-2725A	20-11	20-19,20
84HA-2727A	20-21,22	20-28
84KR-1209B	18-49	18-51
84KR-1520A	18-52	18-53
84KR-2510A	18-54	18-56
84KR-2716A	19-46	19-48
84KR-2723A	19-49	19-51
84WG-1056B	18-57	18-60
84WG-1060A	18-61	18-63
84WG-1060C	18-64	18-66
84WG-1804D, 84WG-1806A	19-52	19-55
84WG-2015A, 84WG-2015B	19-84	19-93
84WG-2504D	19-56	19-59
84WG-2506A	18-67	18-70
84WG-2704D	18-76	18-78
84WG-2712A, 84WG-2712B	18-79	18-90
84WG-2714A, 84WG-2714B, 84WG-2714C, 84WG-2714D, 84WG-2714E	19-60	19-72

MODEL	FROM	THROUGH
MONTGOMERY WARD (Cont'd)		
84WG-2714F	19-73	19-77
84WG-2714G	19-78	19-83
84WG-2718A, 84WG-2718B	19-93	19-101
84WG-2720A	19-93	19-101
84WG-2721A, 84WG-2721B, 84WG-2721C	20-29	20-36
84WG-2721D	20-37	20-41
84WG-2724A	19-93	19-101
84WG-2728A	20-42	20-47
84WG-2732A, 84WG-2732B	20-48	20-53
84WG-2734A	20-42	20-47
94BR-1535A	20-54	20-58
94WG-1059A	20-59	20-62
94WG-1804D	20-63	20-65
94WG-2742A	20-66	20-69
94WG-2742C, 94WG-2742D	20-70	20-74
94WG-2745A	20-75	20-79
94WG-2746A, 94WG-2746B	20-80	20-84
94WG-2747A	20-85	20-89
94WG-2748A, 94WG-2748B	20-90	20-95
94WG-2749A	20-96	20-100
MOTOROLA INC.		
Airboy	17-1	17-3
AR-96-23, Airboy	17-1	17-3
AT-58	19-1	19-5
BK8, BK8X, Ch. 8A	19-6	19-12
CR6	16-1	16-8
CR7	15-9	15-10
	16-1	16-8
	C20-7	---
CR8	19-13	19-22
CT6	16-7	---
	16-9	16-17
CT8, Ch. 8A	19-6	19-12
CT9, 1949 Chevrolet	20-1	20-7
E-33-T	19-105	19-107
E-34-T	19-127	19-129
FD6	16-6	16-7
	16-18	16-22
FD8, Ch. 8A	19-6	19-12
HS-6, Ch.	15-1	---
	17-10	17-13
HS-15, Ch.	15-2	---
	17-10	---
	17-14	17-17
HS-26, Ch.	18-20	18-24
HS-32, Ch.	15-62	---
	17-56	17-60
HS-36, HS-36A, Ch.	18-52	18-72
HS-38, Ch.	19-91	19-107
HS-39, Ch.	19-91	19-107
HS-58, Ch.	17-80	17-84
HS-59, Ch.	17-75	17-79
HS-60, Ch.	17-52	17-55
HS-62, Ch.	17-18	17-21
	17-23	---
	17-25	17-26
HS-62A, Ch.	17-18	17-20
	17-22	---
	17-24	17-26
	20-8	20-14
HS-63, Ch.	17-68	17-74
HS-64, Ch.	18-25,26	18-39
HS-67, Ch.	15-62	---
	17-56	17-60
HS-69, Ch.	17-43	17-46
	17-48	17-49
	17-61,62	17-67
HS-70, Ch.	17-43	17-46
	17-48	17-49
	17-66	---
	17-95,96	17-100
HS-77, Ch.	17-40	17-51
HS-87, Ch.	19-108	19-129
HS-89, Ch.	19-64	19-81
HS-91, Ch.	18-47	18-51
HS-94, Ch.	17-36	17-39
HS-97, Ch.	19-64	19-81
HS-98, Ch.	18-52	18-72
HS-102, Ch.	18-73,74	18-88
HS-113, Ch.	18-7	18-12
HS-114, Ch.	18-13	18-19
HS-116, Ch.	19-39	19-44
HS-119, Ch.	18-40	18-46
HS-122, Ch.	19-51	19-57
HS-124, Ch.	20-44	20-53

MODEL	FROM	THROUGH
MOTOROLA, INC. (Cont'd)		
HS-125, Ch.	19-45	19-50
HS-127, HS-127A, Ch.	20-54	20-59
HS-128, Ch.	20-70	20-83,84
HS-132, Ch.	20-70	20-83,84
HS-133, Ch.	20-85,86	20-98
HS-140, Ch.	20-29	20-32
HS-144, Ch.	19-58	19-63
HS-148, Ch.	20-60	20-63
HS-150, Ch.	19-82	19-90
HS-155, Ch.	19-82	19-90
HS-158, Ch.	19-33	19-38
HS-160, Ch.	20-21	20-24
HS-165, Ch.	20-8	20-14
HS-168, Ch.	20-99	20-105
HS-175, Ch.	20-64	20-69
HS-183, Ch.	20-15	20-20
HS-184, Ch.	20-25	20-28
HS-187, Ch.	20-38	20-43
HS-188, Ch.	20-33	20-37
KR8, Ch. 8A	19-6	19-12
NH6	16-6	16-7
	16-18	16-22
NH8, Ch. 8A	19-6	19-12
OE2, Ch. 8A	19-6	19-12
OE6	16-7	---
	16-9	16-17
OE8, Ch. 8A	19-6	19-12
PC3, Ch. 8A	19-6	19-12
PC6	16-7	---
	16-9	16-17
PC8, Ch. 8A	19-6	19-12
PD6	16-6	16-7
	16-23	16-28
PT10, Tuner	18-67	18-69
PT14, Tuner	18-1	18-3
SR6, Ch. 8A	19-6	19-12
SR7	18-4	18-6
ST54, Tuner	17-4	17-9
ST56, Tuner	19-23	19-32
5A1, Ch. HS-6	15-1	---
	17-10	17-13
5A5, Ch. HS-15	15-2	---
	17-10	---
	17-14	17-17
5A7, Ch. HS-62	17-18	17-21
	17-23	---
	17-25	17-26
5A7A, Ch. HS-62A	17-18	17-20
	17-22	---
	17-24	17-26
5A9B, 5A9M, 5A9S, Ch. HS-62A; 5A9UB, 5A9UM, Ch. HS-165	20-8	20-14
8A, Ch.	19-6	19-12
8FDT, Ch. 8A	19-6	19-12
8GMT, Ch. 8A	19-6	19-12
47B11	17-27	17-31
48L11, Ch. HS-113	18-7	18-12
49L11Q, 49L13Q, Ch. HS-183	20-15	20-20
55F11	17-17	---
	17-32	17-35
56X11, Ch. HS-94	17-36	17-39
57B61V, Ch. HS-77	17-40	17-51
57X11, 57X12, Ch. HS-60	17-52	17-55
58A11, 58A12, Ch. HS-158	19-33	19-38
58G11, 58G12, Ch. HS-160	20-21	20-24
58L11, Ch. HS-114	18-13	18-19
58R11, Ch. HS-116	19-39	19-44
58R11A, Ch. HS-184	20-25	20-28
58R12, Ch. HS-116	19-39	19-44
58R12A, Ch. HS-184	20-25	20-28
58R13, Ch. HS-116	19-39	19-44
58R13A, Ch. HS-184	20-25	20-28
58R14, Ch. HS-116	19-39	19-44
58R14A, Ch. HS-184	20-25	20-28
58R15, Ch. HS-116	19-39	19-44
58R15A, Ch. HS-184	20-25	20-28
58R16, Ch. HS-116	19-39	19-44
58R16A, Ch. HS-184	20-25	20-28
58X11, Ch. HS-125	19-45	19-50
58X11Q, Ch. HS-140	20-29	20-32
58X12, Ch. HS-125	19-45	19-50
58X12Q, Ch. HS-140	20-29	20-32
59F11, Ch. HS-188	20-33	20-37
59L11Q, 59L12Q, Ch. HS-187	20-38	20-43
65F21, Ch. HS-26	18-20	18-24
65T21, Ch. HS-32; 65T21B, Ch. HS-67	15-62	---
	17-56	17-60

MOTOROLA, INC. (Cont'd)

MODEL	FROM	THROUGH
67F11, 67F12, 67F12B, Ch. HS-63	17-68	17-74
67F14, Ch. HS-122	19-51	19-57
67F61BN, Ch. HS-69	17-43	17-46
	17-48	17-49
	17-61,62	17-67
67L11, Ch. HS-59	17-75	17-79
67T61BN, Ch. HS-69	17-43	17-46
	17-48	17-49
	17-61,62	17-67
67X11, 67X12, 67X13, Ch. HS-58	17-80	17-84
67XM21, Ch. HS-64	18-25,26	18-39
68F11, 68F12, 68F14, 68F14B, 68F14M, Ch. HS-124	20-44	20-53
68L11, Ch. HS-119	18-40	18-46
68T11, Ch. HS-144	19-58	19-63
68X11, 68X11A, Ch. HS-127, HS-127A	20-54	20-59
68X11Q, Ch. HS-148	20-60	20-63
68X12, 68X12A, Ch. HS-127, HS-127A	20-54	20-59
68X12Q, 68X13Q, Ch. HS-148	20-60	20-63
69L11, Ch. HS-175	20-64	20-69
75F21, Ch. HS-91	18-47	18-51
75F31, 75F31A, 75F31B, 76F31, Ch. HS-36, HS-36A, HS-98	18-52	18-72
PT10, Tuner	18-67	18-69
77FM21, 77FM22, 77FM22M, 77FM22WM, 77FM23, Ch. HS-89, HS-97	19-64	19-81
77XM21, 77XM22, 77XM22B, Ch. HS-102	18-73,74	18-88
78FM21, 78FM21M, Ch. HS-132; 78FM22M, Ch. HS-128	20-70	20-83,84
78F11, 78F11-M, 78F12-M, Ch. HS-150, HS-155	19-82	19-90
79XM21, 79XM22, Ch. HS-168	20-99	20-105
85F21	17-59	---
	17-85	17-91
85K21	17-59	---
	17-86	17-88
	17-91	17-94
87T61BN, Ch. HS-70	17-43	17-46
	17-48	17-49
	17-66	---
	17-95,96	17-100
88FM21, Ch. HS-133	20-85,86	20-98
95F31, Ch. HS-38; 95F31B, 95F31M, Ch. HS-39; 95F33, Ch. HS-38	19-91	19-107
E-33-T	19-105	19-107
107F31, 107F31B, Ch. HS-87	19-108	19-129
E-34-T	19-127	19-129
309	20-106	20-109
402	C18-5	---
405	16-7	---
	16-16	---
	16-29	---
	16-33	---
	16-35	16-36
408	18-89	18-91
409	19-130	19-132
505	15-9	---
	15-77	---
	16-7	---
	16-16	---
	16-30	---
	16-33	---
	16-35	16-36
508	18-90	---
	18-92	18-94
509	20-110	20-112
605	16-7	---
	16-16	---
	16-31	---
	16-33	16-36
608	18-90	---
	18-95	18-97
609	20-113	20-115
705	16-7	---
	16-16	---
	16-32	16-36
708	18-90	---
	18-98	18-100
709	20-116	20-118

MUSICAIRE

See COAST-TO-COAST STORES CENTRAL ORGANIZATION INC.

NASH

See RADIO CORP. OF AMERICA
Also See ZENITH RADIO CORP.

NATIONAL ACOUSTIC PRODUCTS

MODEL	FROM	THROUGH
WRA-1	Misc.16-7	---

NATIONAL CO., INC.

MODEL	FROM	THROUGH
HRO Series	17-7	17-20
HRO-5	17-4	17-6
HRO-5-1 Series	17-16	17-17
HRO-5A1	17-21	17-34
HRO-5R	17-4	17-6
HRO-5RA	17-16	---
HRO-5T	17-4	17-6
HRO-5TA	17-16	---
HRO-7	17-21	---
	17-28	---
	17-35	17-48
HRO-M, HRO-MX, HRO-M-RR, HRO-M-TM	17-1	17-3
NC-57	18-1	18-16
NC-108R, NC-108T	19-1	19-10
NC-173	17-49,50	17-62
NC-183	19-11	19-35
686S	17-28	---
697	17-21	---

NATIONAL COOPERATIVES, INC.

MODEL	FROM	THROUGH
R-546	Misc.16-8	---
R-646	Misc.19-15	---
6A47WT, 6A47WTC, 6A47WTR, 6AFMT, 6AMM, 6AWC2, 6AWC3	18-1,2	18-8

NATIONAL UNION RADIO CORP.

MODEL	FROM	THROUGH
Fraternity	17-1	---
G-517-B, G-517-W, Fraternity	17-1	---
G-613	16-1	16-2
G-615	16-3	16-4
G-617-SN	Misc.18-10	---
571	17-2	17-4

NOBLITT-SPARKS INDUSTRIES, INC. (ARVIN)

MODEL	FROM	THROUGH
RE-91, Ch.	19-12	19-13
RE-200, Ch.	19-12	19-13
RE-200M, Ch.	C17-6	---
RE-202, Ch.	16-1	16-4
	C20-7	---
RE-204, Ch.	C17-6	---
RE-206-1, Ch.	20-17	20-18
RE-206-2, Ch.	17-16	17-18
RE-209, Ch.	17-1	17-4
RE-228, Ch.	17-5	17-8
RE-231, Ch.	16-1	16-4
	C20-7	---
RE-232, Ch.	19-1	19-3
RE-233, Ch.	18-1	18-3
RE-237, Ch.	17-9,10	17-15
	C19-4	---
RE-242, Ch.	19-13	19-14
RE-243, Ch.	18-6	18-7
RE-244, Ch.	19-4	19-6
RE-248, Ch.	18-4	18-6
RE-251, Ch.	19-7	19-8
RE-252, Ch., Revised	20-1	20-4
RE-253, Ch.	18-8	18-12
RE-254, RE-255, RE-256, Ch.	19-4	19-6
RE-259, Ch.	19-4	19-6
RE-260, Ch.	20-14	20-16
RE-265, Ch.	19-9	19-11
RE-267, Ch.	20-7	20-10
RE-273, Ch.	20-11	20-13
RE-274, Ch.	20-5	20-6
140P, Ch. RE-209	17-1	17-4
150TC, 151TC, Ch. RE-228	17-5	17-8
152T, 153T, Ch. RE-233	18-1	18-3
160T, 161T, Ch. RE-232	19-1	19-3
182TFM, Ch. RE-237	17-9,10	17-15
	C19-4	---
240P, Ch. RE-243	18-6	18-7
241P, Ch. RE-244, RE-254, RE-255, RE-256, RE-259	19-4	19-6
242T, 243T, Ch. RE-251	19-7	19-8

NOBLITT-SPARKS INDUSTRIES, INC. (Cont'd)

MODEL	FROM	THROUGH
244P, Ch. RE-244, RE-254, RE-255, RE-256, RE-259	19-4	19-6
250P, Ch. RE-248	18-4	18-6
253T, 254T, 255T, 256T, Ch. RE-252, Revised	20-1	20-4
264T, 265T, Ch. RE-265	19-9	19-11
280TFM, 281TFM, Ch. RE-253	18-8	18-12
341T, Ch. RE-274	20-5	20-6
350P, 351P, Ch. RE-267	20-7	20-10
356T, 357T, Ch. RE-273	20-11	20-13
360TFM, 361TFM, Ch. RE-260	20-14	20-16
442, Ch. RE-91, RE-200	19-12	19-13
444AH, Ch. RE-91, RE-200	19-12	19-13
444AM, 444M, Ch. RE-200M	C17-6	---
544	C17-10	---
544AR	C17-5	---
544R	C17-5	---
	C17-10	---
547, 547A, Ch. RE-242	19-13	19-14
552AN, 552N, 555, 555A, Ch. RE-202, RE-231	16-1	16-4
	C20-7	---
558, Ch. RE-204	C17-6	---
664, 664A, Ch. RE-206-1	20-17	20-18
665	16-5	16-7
2410P, Ch. RE-244, RE-254, RE-255, RE-256, RE-259	19-4	19-6
6640, Ch. RE-206-2	17-16	17-18

NORTHERN RADIO CO.

MODEL	FROM	THROUGH
Type N600, Model A	19-1	19-21
Type N600, Model AJ	18-1	18-8
Type N600, Model B	19-1	19-21
Type N600, Model BJ	18-1	18-8
Type N600, Model C	19-1	19-21
Type N600, Model CJ	18-1	18-8
Type N600, Model D	19-1	19-21
Type N600, Model DQ	19-1	19-21
Type N600, Model DQT	19-1	19-21
Type N600, Model DT	19-1	19-21
Type N600, Model E	19-1	19-21
Type N600, Model ED	19-1	19-21
Type N600, Model EDJ	18-1	18-8
Type N602, Model A	19-1	19-21
Type N602, Model B	19-1	19-21
Type N602, Model C	19-1	19-21
Type N602, Model D	19-1	19-21
Type N602, Model DQT	19-1	19-21
Type N602, Model DT	19-1	19-21
Type N602, Model E	19-1	19-21
Type N602, Model ED	19-1	19-21
N605-E	16-1	16-4

OLDSMOBILE

See UNITED MOTORS SERVICE

OLYMPIC RADIO & TELEVISION INC.

MODEL	FROM	THROUGH
PQ61	18-1	18-2
PT50, PT51	18-4	---
6-507	18-5	18-6
6-604V-110, 6-604V-220, Early	17-1	17-4
6-604V-110, 6-604V-220, Late	17-3	17-6
6-604W-110, 6-604W-150, 6-604W-220, Early	17-1	17-4
6-604W-110, 6-604W-150, 6-604W-220, Late	17-3	17-6
6-606U	17-7	17-9
6-608-110, 6-608-220	18-7	18-10
6A-501V-U, 6A-501W-U, 6A-502-U	C18-7	---
6A-606	16-1	16-2
6A-606-U	17-8	---
	17-10	17-11
6B-606	16-3	16-4
7-421V, 7-421W, 7-421X	18-2	18-3
7-435V, 7-435W	18-13	18-15
7-526	16-5	16-6
7-532V, 7-532W	19-1	19-3
7-537V, 7-537W	19-3	19-5
7-622	19-6	19-8
7-638	19-6	19-8
7-724	17-12	17-14
7-925, 7-934	19-9,10	19-13
7-936	19-9,10	19-13
7-939	19-9,10	19-13
8-618, 8-618-220	18-10	18-12
8-925	19-14	19-15,16

OLYMPIC RADIO & TELEVISION INC. (Cont'd)

MODEL	FROM	THROUGH
8-934, 8-936	19-14	19-15,16
530	18-16	---
730	19-17	---

OPERADIO MFG. CO.

MODEL	FROM	THROUGH
855-AR	Misc.17-9	---

THE ORTHON CORP.

MODEL	FROM	THROUGH
605, 615, 705, 715	20-1	20-2

PACENT ENGINEERING CORP.

MODEL	FROM	THROUGH
9-R	18-1	18-2

PACKARD-BELL CO.

MODEL	FROM	THROUGH
Phonocord	17-8	17-13
5DA	16-1	16-2
5D8, 100	20-1	20-2
471	17-1	17-2
568	16-3	16-4
571, 572	17-3	17-4
581	20-1	20-2
673	17-5	17-7
673A, 673B	18-1	18-3
682	20-3	20-4
771, 771X	18-4	18-6
791	20-5	20-7
861, Phonocord	17-8	17-13
872	17-14	17-16
880	18-1	18-3
881	18-7	18-9
882	18-10	18-12
884, 892	19-1	19-3
1063	18-13	18-16
1181, 1181A	20-8	20-11
1272	19-4	19-10
1273	19-11	19-14
1472	19-15,16	19-19

PACKARD MOTOR CAR CO.

Also See PHILCO CORP.

MODEL	FROM	THROUGH
PA-33915, Early; PA-33915, Late; See STEWART-WARNER Models 3341, 3341-R Late, 3371	18-11	18-14
PA-351099, PA-351100; See STEWART-WARNER Models R-3271, R-3271C	18-7	18-8
PA-351101, PA-351102; See STEWART-WARNER Models R-3291, R-3291C	18-9	18-10
PA-353832; See STEWART-WARNER Models 3341, 3341-R Late, 3371	18-11	18-14

PENTRON CORP.

MODEL	FROM	THROUGH
748, Astra-Sonic	Misc.19-16	---

PHILCO CORP.

MODEL	FROM	THROUGH
Mopar 802, Chrysler	19-1	19-9
C-4608, Codes 121, 122; Mopar 802, Chrysler	19-1	19-9
CR-2, Code 121	16-1	16-3
CR-4, Code 121	16-4	---
	16-6	16-8
CR-6, Code 121	16-5	16-8
CR-8	19-10	19-15,16
CR-9	19-17,18	19-23
CR-10	20-1	20-7
CR-12	20-8	20-13,14
P-4635, Packard	20-26	20-33
P-4735, Packard	19-24	19-29,30
S-4624, S-4625, Studebaker	20-34	20-41
S-4626, S-4627, Studebaker	19-31	19-38
S-4824, Studebaker	20-42	20-46
UN6-100	18-1	18-7
UN6-400	19-39	19-46
UN6-450	17-1	17-5
UN6-500	17-5	17-9
UN6-550	18-8	18-15
46-131	20-47	20-54
46-132	20-55	20-62
46-200, Code 125	16-9	16-11
46-421, 46-421-I	19-47	19-54
46-427	18-16	18-23
46-1203, Code 125	16-12	16-14
47-204, 27-205	20-63	20-68
47-1227	19-55	19-69,70
47-1230	19-71	19-83,84
48-141, 48-145	18-24	18-31

PHILCO CORP. (Cont'd)

MODEL	FROM	THROUGH
48-150	18-32	18-39
48-200, 48-200-I, Codes 121, 122	18-40	18-47
48-214, Code 125	17-10	17-13
	18-40	18-47
48-250, 48-251, Codes 121, 122, 126	18-48	18-55
48-300	18-56	18-63
48-360	18-64	18-71
48-460, Code 121	17-14	17-15,16
	17-19	---
48-461, Code 121	17-17,18	---
	17-20	17-22
48-464	18-72	18-79
48-472, Code 122	18-80	18-90
48-482	18-91	18-107
48-485	18-108	18-113,114
48-1201	18-115	18-121
48-1253	19-85	19-91,92
48-1256	18-122	18-129
48-1260	18-115	18-121
48-1262, Code 121	18-130	18-137
48-1263	18-138	18-145
48-1264	19-93,94	19-107
48-1270	18-146	18-164
48-1274, 48-1276	19-108	19-129
48-1283	18-130	18-137
48-1284	20-69	20-77
48-1286	18-165	18-179
48-1290	18-180	18-198
49-100	19-130	19-137
49-101	19-138	19-145
49-500, 49-500-I	19-146	19-153
49-501, 49-501-I	19-154	19-161
49-503	19-162	19-169
49-504, 49-504-I	19-170	19-177
49-505	19-178	19-185
49-506	19-146	19-153
49-602	19-186	19-193
49-603	18-199	18-205
49-605	19-194	19-201
49-900-E, 49-900-I	18-206	18-212
49-901	18-213	18-219
49-902	19-202	19-207,208
49-904	19-209	19-215,216
49-905	18-220	18-229,230
49-906	20-15,16	20-25
49-909	18-231	18-241,242
49-1100	20-78	20-83
49-1101	18-231	18-241,242
49-1401	20-84	20-89
49-1405	19-217	19-223,224
49-1600	20-90	20-95
49-1602, 49-1603, 49-1604, 49-1605	20-96	20-101,102
49-1606, 49-1609, 49-1611	20-103,104	20-113
49-1613	20-119	20-133,134
49-1615	20-135,136	20-152
50-520	20-114	20-118
50-522, 50-522-I, 50-524	20-153	20-157
50-527, 50-527-I	20-158	20-162
50-620	20-163	20-168
50-621	20-169	20-172
50-925	20-173	20-182
50-1420	20-183	20-188
50-1725	20-189	20-199,200
50-1726	20-201,202	20-216
80	C17-5	---

PHILHARMONIC RADIO CORP.

MODEL	FROM	THROUGH
Minuet	18-1	---
99T, Minuet	18-1	---
100, 148	18-2	---
149C	18-2	---
200	18-2	---
248C, 248CB	19-1	---
249C	18-2	---
300C	19-2	---
400C	18-3	18-6
448C	19-2	19-9
500C	18-3	18-6

PHILLIPS PETROLEUM CO.
(WOOLAROC)

MODEL	FROM	THROUGH
3-1AX, 3-2AX	16-1	16-2
3-5A	17-1	17-2

PHILLIPS PETROLEUM CO. (Cont'd)

MODEL	FROM	THROUGH
3-6A	17-3	---
3-12A	17-4	17-5
3-13A, 3-14A, 3-15A, 3-16A	17-6	---
3-17A, 3-18A	17-7	---
3-20A	17-5	---
	17-8	---
3-61A	17-9	17-12
3-62A	C18-6	---
3-63A	18-1	18-2
3-70A	19-1	19-2
3-71A	17-9	17-12
3-81A	18-2	18-6

PILOT RADIO CORP.

MODEL	FROM	THROUGH
Pilotuner	17-1,2	17-6
FM-210 Series	20-1	20-2
G-508, G-509	19-1,2	19-4
T-411-AB	20-3	20-4
T-411-U	16-1	16-3
T-521	16-4	16-6
T-530 Series	18-1,2	18-5
T-570	19-5,6	19-8
T-573	20-5	20-6
T-601, Pilotuner	17-1,2	17-6
T-612	20-7	---
T-700	17-7	17-8
T-741	17-9	17-12
V-652	20-8	20-9
X-203, X-205	18-6	---
650 Series	20-8	20-9
800 Series	20-10	20-11
810 Series	20-12	20-13

PLYMOUTH
See INTERSTATE STORES BUYING CORP.

PONTIAC
See UNITED MOTORS SERVICE

PORTO-PRODUCTS INC.

MODEL	FROM	THROUGH
Smokerette	17-1	17-2
PA-510, PB-520	18-1	18-2
SR-600, Ch. 9040A, Smokerette	17-1	17-2
9040A, Ch.	17-1	17-2

PURE OIL CO., U.S.A.
(PURITAN)

MODEL	FROM	THROUGH
5D15WG-5015, 5D25WG-5025	16-1	16-2
6D15SW, 6D25SW, Ch.	18-1	18-2
506X, 507X, Ch. 6D15SW, 6D25SW	18-1	18-2
509	17-1	17-2
515	Misc. 19-17	---
516, 517	17-3	---
518, 519	17-4	---

PURITAN
See PURE OIL CO., U.S.A.

RADIO CORP. OF AMERICA

MODEL	FROM	THROUGH
Receiver Drive Cords	C17-5	---
AC3689, Ch. RC-368, Nash	19-65	19-70
CV-42, Ch. RS-1000	17-27	17-28
CV-45, Ch. RS-1001	20-1	20-2
MI-13174-1, MI-13174-3	18-1	18-2
Q10, Q10-2, Q10A, Q10A2, Ch. RC-594C	15-4	15-7
	C19-5	---
Q36, Ch. RC-585	16-1	16-7
Q103, Q103-2, Q103A, Q103A-2, Ch. RC-1044	16-8	16-9
	16-11	16-13
	C17-6	---
Q103AX, Q103AX-2, Q103X-2, Ch. RC-1044B	16-8	---
	16-10	16-13
	C17-6	---
Q109, Q109X, Ch. RC-602, RC-602A	18-3	18-10
	C19-5	---
	C20-7	---
Q121, Ch. RC-507U	16-14	16-18
Q122, Q122a, Ch. RC-601, RC-601A	17-1	17-3
	17-6	17-8
Q122X, Q122Xa, Ch. RC-601D, RC-601E	17-3	17-8

RADIO CORP. OF AMERICA (Cont'd)

MODEL	FROM	THROUGH
QB12, Ch. RC-529A	15-8	15-12
	C17-5	---
QB13, Ch. RC-529A, RC-612	16-7	---
	16-19	16-24
QB55, Ch. RC-563A	15-27	15-29
	C18-8	---
	C19-5	---
QB55X, Ch. RC-563K	17-9	17-11
	C19-5	---
QU51C, QU51M, QU55, Ch. RC-568, RC-568A	14-37	14-41
	14-64	---
	C17-6	---
QU61, Ch. RC-568B	15-55	15-59
	C18-7	---
	C19-6	---
QU62, Ch. RC-602B	17-12	17-20
	C19-5	---
QU72, QU72A, Ch. RC-1035	17-21	17-24
RC-368, Ch.	19-65	19-70
RC-396, Ch.	11-15	11-16
	C17-5	---
RC-474D, Ch.	16-25	16-27
RC-490, Ch.	19-54	19-55
RC-507U, Ch.	16-14	16-18
RC-529A, Ch.	15-8	15-12
	16-7	---
	16-19	16-24
	C17-5	---
RC-563A, Ch.	15-27	15-29
	C18-8	---
	C19-5	---
RC-563K, Ch.	17-9	17-11
	C19-5	---
RC-568, RC-568A, Ch.	14-37	14-41
	14-64	---
	C17-6	---
RC-568B, Ch.	15-55	15-59
	C18-7	---
	C19-6	---
RC-585, Ch.	16-1	16-7
RC-589, RC-589A, RC-589B, RC-589D, RC-589U, RC-589UA, RC-589UB, Ch.	15-22	15-24
	C18-8	---
	C18-9	---
RC-594C, Ch.	15-4	15-7
	C19-5	---
RC-594D, Ch.	15-52	15-54
	C17-6	---
	C17-7	---
RC-601, RC-601A, Ch.	17-1	17-3
	17-6	17-8
RC-601D, RC-601E, Ch.	17-3	17-8
RC-602, RC-602A, Ch.	18-3	18-10
	C19-5	---
	C20-7	---
RC-602B, Ch.	17-12	17-20
	C19-5	---
RC-605, Ch.	15-44	15-48
	C17-7	---
RC-606, Ch.	16-35	16-39
	C19-5	---
	C19-7	---
RC-606C, Ch.	19-49	19-53
RC-608, Ch.	16-39	16-43
	C18-8	---
	C20-11	---
RC-610, RC-610C, Ch.	19-56	19-64
	C20-11	---
RC-612, Ch.	16-7	---
	16-19	16-24
RC-613A, Ch.	18-55	18-60
	C19-5	---
	C20-11	---
RC-615, Ch.	18-15	18-16
	19-47	19-48
	C19-5	---
RC-616, Ch.	18-17	18-24
	C20-9	---
RC-616A, Ch.	19-16	19-25
	C20-9	---
RC-616F, Ch.	18-17	18-24
	C20-9	---
RC-616H, Ch.	19-16	19-25
	C20-9	---

RADIO CORP. OF AMERICA (Cont'd)

MODEL	FROM	THROUGH
RC-618, RC-618A, Ch.	19-16	19-25
	C20-9	---
RC-618B, RC-618C, Ch.	19-35	19-44
	C20-8	---
	C20-10	---
Revised	20-13	---
RC-618D, Ch.	20-11	20-14
RC-1000C, Ch.	16-48	16-50
RC-1004E, Ch.	15-25	15-26
	17-27	17-28
	C17-6	---
RC-1011, RC-1011A, RC-1011B, Ch.	15-26	---
	15-31	---
	15-49	15-50
	C17-6	---
	C17-7	---
	C18-8	---
RC-1017, Ch.	15-16	---
	15-24	---
	C17-7	---
RC-1017A, Ch.	16-33	16-34
	C19-7	---
RC-1017B, Ch.	16-33	16-34
RC-1023, Ch.	15-32	15-34
	15-51	15-52
	C17-6	---
	C17-7	---
RC-1023A, Ch.	15-33	---
	15-37	15-39
	15-51	15-52
	C17-6	---
	C19-6	---
RC-1023B, Ch.	15-33	15-36
	15-51	15-52
	C17-6	---
	C17-7	---
	C19-6	---
RC-1023C, Ch.	15-33	---
	15-51	15-52
	C17-6	---
	C19-6	---
RC-1034, Ch.	15-61	15-62
	16-31	16-32
	C17-6	---
	C17-7	---
	C20-10	---
RC-1035, Ch.	17-21	17-24
RC-1037B, Ch.	20-1	20-2
RC-1038, RC-1038A, Ch.	15-89	15-91
	C18-10	---
RC-1040, RC-1040A, Ch.	15-87	15-88
	C17-7	---
	C20-10	---
RC-1040B, Ch.	15-87	15-88
	C17-7	---
	C19-7	---
	C20-10	---
RC-1040C, RC-1040D, Ch.	18-11	18-14
	C20-8	---
	C20-10	---
RC-1044, Ch.	16-8	16-9
	16-11	16-13
	C17-6	---
RC-1044B, Ch.	16-8	---
	16-10	16-13
	C17-6	---
RC-1045, Ch.	17-25	17-26
RC-1046, Ch.	17-29	17-30
	C19-5	---
RC-1046A, Ch.	17-29	17-30
	C19-5	---
RC-1046B, Ch.	17-29	17-30
	C19-5	---
RC-1046C, RC-1046D, RC-1046E, Ch.	17-29	17-30
	C18-10	---
	C19-5	---
RC-1047, Ch.	16-28	16-30
	C19-6	---
RC-1050, RC-1050A, Ch.	18-49	18-50
	C19-7	---
	C20-11	---
RC-1050B, Ch.	18-49	18-50
	C20-11	---
RC-1057A, Ch.	18-53	18-54
	C20-11	---
RC-1057B, Ch.	20-21	20-23

RADIO CORP. OF AMERICA (Cont'd)

MODEL	FROM	THROUGH
RC-1058, RC-1058A, Ch.	18-51	18-52
	C19-7	---
RC-1059, RC-1059A, Ch.	19-5	19-9
	C20-7	---
	C20-10	---
RC-1059B, RC-1059C, Ch.	20-3	20-6
RC-1060, RC-1060A, Ch.	19-10	19-15
	C20-8	---
	C20-9	---
RC-1061, Ch.	19-26	19-29
RC-1063A, Ch.	19-45	19-46
	C20-10	---
RC-1064, Ch.	18-41	18-42
	18-47	18-48
	C17-6	---
	C20-10	---
RC-1065, RC-1065A, Ch.	18-45	18-46
	C20-11	---
RC-1066, RC-1066A, Ch.	18-43	18-44
	C19-6	---
RC-1068, Ch.	20-7	20-10
RC-1069, RC-1069A, RC-1069B, RC-1069C, Ch.	19-1	19-4
RC-1070, Ch.	19-30	19-34
	C20-10	---
RC-1077, Ch.	20-27	20-30
RC-1079, RC-1079A, Ch.	20-17	20-18
RC-1079B, RC-1079C, Ch.	20-15	20-16
RC-1079D, Ch.	20-24	20-26
RC-1080, RC-1080A, Ch.	20-19	20-20
RK-117, Ch.	17-44	17-55
	C18-9	---
	C19-6	---
RK-121, Ch.	17-31	17-43
	C18-10	---
	C20-12	---
RK-121C, Ch.	18-25	18-40
	C20-9	---
RS-123, Ch.	17-31	17-55
	C18-9	C18-10
	C19-6	---
	C20-12	---
RS-123D, Ch.	18-25	18-40
	C20-9	---
RS-1000, Ch.	17-27	17-28
RS-1001, Ch.	20-1	20-2
X60, Ch. RC-474D	16-25	16-27
5Q5, Ch. RC-396	11-15	11-16
	C17-5	---
5Q12	11-4	---
	11-33	11-34
	C17-6	---
8B41, Ch. RC-1069; 8B42, Ch. RC-1069A; 8B43, Ch. RC-1069B; 8B46, Ch. RC-1069C	19-1	19-4
8BX5, Ch. RC-1059, RC-1059A	19-5	19-9
	C20-7	---
	C20-10	---
8BX6, Ch. RC-1040C, RC-1040D	18-11	18-14
	C20-8	---
	C20-10	---
8BX54, 8BX55, Ch. RC-1059, RC-1059A	19-5	19-9
	C20-7	---
	C20-10	---
8BX65, Ch. RC-1040C, RC-1040D	18-11	18-14
	C20-8	---
	C20-10	---
8F43, Ch. RC-1037B	20-1	20-2
8R71, 8R72, 8R74, 8R75, 8R76, Ch. RC-1060, RC-1060A	19-10	19-15
	C20-8	---
	C20-9	---
8V7, Ch. RC-615	18-15	18-16
	C19-5	---
8V90, Ch. RC-618, RC-618A; 8V91, Ch. RC-616A, RC-616H	19-16	19-25
	C20-9	---
8V112, Ch. RC-616, RC-616F	18-17	18-24
	C20-9	---
8V151, Ch. RK-121C, RS-123D	18-25	18-40
	C20-9	---
8X53, Ch. RC-1064	18-41	18-42
	C20-10	---
8X71, 8X72, Ch. RC-1070	19-30	19-34
	C20-10	---
8X521, 8X522, Ch. RC-1066, RC-1066A	18-43	18-44
	C19-6	---

RADIO CORP. OF AMERICA (Cont'd)

MODEL	FROM	THROUGH
8X541, 8X542, 8X543, 8X544, 8X545, 8X546, 8X547, Ch. RC-1065, RC-1065A	18-45	18-46
	C20-11	---
8X681, 8X682, Ch. RC-1061	19-26	19-29
9BX5, Ch. RC-1059B, RC-1059C	20-3	20-6
9BX56, Ch. RC-1068	20-7	20-10
9W51, Ch. RC-1079D	20-24	20-26
9W101, Ch. RC-618B	19-35	19-44
	C20-8	---
	C20-10	---
Revised	20-13	---
9W102, Ch. RC-618D	20-11	20-14
9W103, Ch. RC-618B; 9W105, Ch. RC-618C	19-35	19-44
	C20-8	---
	C20-10	---
Revised	20-13	---
9X561, Ch. RC-1079B; 9X562, Ch. RC-1079C	20-15	20-16
9X571, Ch. RC-1079; 9X572, Ch. RC-1079A	20-17	20-18
9X641, Ch. RC-1080; 9X642, Ch. RC-1080A	20-19	20-20
9Y7, Ch. RC-1057B	20-21	20-23
9Y51, Ch. RC-1077	20-27	20-30
54B1, Ch. RC-589; 54B1-N, Ch. RC-589D; 54B2, Ch. RC-589A; 54B3, Ch. RC-589B, Second Production, Ch. RC-589U, RC-589UA, RC-589UB	15-22	15-24
	C18-8	---
	C18-9	---
54B5, Ch. RC-1047	16-28	16-30
	C19-6	---
55F, Ch. RC-1004E	15-25	15-26
	C17-6	---
55U, Ch. RC-1017	15-16	---
	15-24	---
	C17-7	---
56X, 56X2, 56X3, Ch. RC-1011, RC-1011A, RC-1011B	15-26	---
	15-31	---
	C17-6	---
	C17-7	---
	C18-8	---
56X5, Ch. RC-1023	15-32	15-34
	C17-6	---
	C17-7	---
56X10, Ch. RC-1023B	15-34	15-36
	C17-6	---
	C17-7	---
56X11, Ch. RC-1023A	15-37	15-39
	C17-6	---
59V1, Ch. RC-605	15-44	15-48
	C17-7	---
61-1, 61-2, 61-3, Ch. RC-1011, RC-1011A, RC-1011B	15-49	15-50
	C17-6	---
	C17-7	---
61-5, Ch. RC-1023	15-33	---
	15-51	15-52
	C17-6	---
61-6, 61-7, Ch. RC-594D	15-52	15-54
	C17-6	---
	C17-7	---
61-8, Ch. RC-1034	16-31	16-32
	C17-6	---
61-8, Ch. RC-1064	18-47	18-48
	C17-6	---
61-9, Ch. RC-1034	16-31	16-32
	C17-6	---
61-9, Ch. RC-1064	18-47	18-48
	C17-6	---
61-10, Ch. RC-1023A, RC-1023B, RC-1023C	15-33	---
	15-51	15-52
	C17-6	---
	C19-6	---
62-1, Ch. RC-1017A, RC-1017B	16-33	16-34
	C19-7	---
65BR9, Ch. RC-1045	17-25	17-26
65F, Ch. RC-1004E; CV-42, Ch. RS-1000	17-27	17-28
65U-1	15-85	15-86
	C19-7	---

RADIO CORP. OF AMERICA (Cont'd)

MODEL	FROM	THROUGH
65X1, 65X2, Ch. RC-1034	15-61	15-62
	C17-7	---
	C20-10	---
65X8, 65X9, Ch. RC-1034	15-61	15-62
	C17-7	---
66BX, Ch. RC-1040, RC-1040A, RC-1040B	15-87	15-88
	C17-7	---
	C20-10	---
66BX, Ch. RC-1040B	15-87	15-88
	C17-7	---
	C19-7	---
66X1, 66X2, Ch. RC-1038; 66X3, 66X4, 66X7, 66X8, 66X9, Ch. RC-1038A	15-89	15-91
	C18-10	---
66X11, Ch. RC-1046A	17-29	17-30
	C19-5	---
66X11, Ch. RC-1046C	17-29	17-30
	C18-10	---
	C19-5	---
66X12, Ch. RC-1046	17-29	17-30
	C19-5	---
66X12, Ch. RC-1046D	17-29	17-30
	C18-10	---
	C19-5	---
66X13, Ch. RC-1046B	17-29	17-30
	C19-5	---
66X13, Ch. RC-1046E	17-29	17-30
	C18-10	---
	C19-5	---
66X14, 66X15, Ch. RC-1046B	17-29	17-30
67AV1, 67V1, Ch. RC-606	16-35	16-39
	C19-5	---
	C19-7	---
68R1, 68R2, 68R3, 68R4, Ch. RC-608	16-39	16-43
	C18-8	---
	C20-11	---
75X11, Ch. RC-1050, RC-1050A	18-49	18-50
	C19-7	---
	C20-11	---
75X11, Ch. RC-1050B	18-49	18-50
	C20-11	---
75X12, Ch. RC-1050, RC-1050A	18-49	18-50
	C19-7	---
	C20-11	---
75X12, Ch. RC-1050B	18-49	18-50
	C20-11	---
75X14, 75X15, 75X16, Ch. RC-1050, RC-1050A, RC-1050B	18-49	18-50
	C20-11	---
75ZU, Ch. RC-1063A	19-45	19-46
	C20-10	---
76ZX11, Ch. RC-1058, RC-1058A	18-51	18-52
76ZX12, Ch. RC-1058, RC-1058A	18-51	18-52
	C19-7	---
77U, Ch. RC-1057A	18-53	18-54
	C20-11	---
77V1, Ch. RC-615	19-47	19-48
77V2, Ch. RC-606C	19-49	19-53
85T8	16-44	16-47
96X5, Ch. RC-490	19-54	19-55
112A	4-56	4-58
	C17-8	---
515, Ch. RC-1000C	16-48	16-50
610V1, Ch. RC-610C; 610V2, Ch. RC-610	19-56	19-64
	C20-11	---
612V1, 612V3, 612V4, Ch. RK-121, RS-123	17-31	17-43
	C18-10	---
	C20-12	---
710V2, Ch. RC-613A	18-55	18-60
	C19-5	---
	C20-11	---
711V1, Ch. RK-117, RS-123	17-44	17-55
	C18-9	---
711V2, Ch. RK-117, RS-123	17-44	17-55
	C18-9	---
	C19-6	---
711V3, Ch. RK-117, RS-123	17-44	17-55
	C18-9	---

THE RADIO CRAFTSMEN INC.

MODEL	FROM	THROUGH
6-Tube Kit	17-1	17-2
RC-8	18-1	18-5

RADIO DEVELOPMENT & RESEARCH CORP. (MAGIC TONE)

MODEL	FROM	THROUGH
504	Misc.17-10	---
508	Misc.19-18	---
900	Misc.19-18	---

RADIO DISPLAYS CO.

MODEL	FROM	THROUGH
Beer Bottle Type	19-1	19-2
B-500, C-500, P-500	Misc.18-3	---

RADIO ENGINEERING LABS., INC.

MODEL	FROM	THROUGH
646	18-1,2	18-12
646B	20-1	20-10
647	18-1,2	18-12
647B	20-1	20-10
648	18-1,2	18-12
648B	20-1	20-10

RADIO KITS, INC.

MODEL	FROM	THROUGH
B4	18-1	18-2
FM-7	19-1	19-3
S5C	17-1	17-3
3W10A	19-4	19-7
210	17-3	17-5

RADIO MFG. ENGINEERS INC.

MODEL	FROM	THROUGH
VHF-152	19-1	19-10
VHF-152A	17-1	17-10
84	18-1	18-3
	18-5	18-13
84A	18-2	18-11
	18-14	18-15

RADIONIC EQUIPMENT CO. (CHANCELLOR)

MODEL	FROM	THROUGH
Y62W	18-1	18-2
14B	16-1	---
35P	Misc.17-11	---
240T	16-2	---

RADIO & TELEVISION INC. (BRUNSWICK)

MODEL	FROM	THROUGH
D-1000, D-1100	19-1	19-7
D-6876	16-1	16-5
SF-6810	16-1	16-5
T-2200, T-2200X	19-1	19-7
T-4000	16-1	16-5
T-4000½	16-1	16-5
T-4400, T-4400½	18-1	18-3
T-5000	18-3	18-5
T-9000	19-1	19-7

RADIO & TELEV. PRODUCTS CO. (KAROLA)

MODEL	FROM	THROUGH
47-601	Misc.19-19	---
47-602	18-1	18-2

RADIO WIRE TELEVISION (LAFAYETTE)

MODEL	FROM	THROUGH
A-23	18-1	18-5
A-41	18-6	18-7
B-43	18-8	---
B-80, See WELLS GARDNER Model 7L	8-33	---
BB-60, BB-61	18-8	---
BP-12	16-1	16-2
C-29, See GAROD Model 389	11-4	---
	11-14	---
C-36, See GAROD Model 4159	10-16	---
	10-25	10-26
C-95	18-9	18-14
C-104	18-15	---
CC-24, CC-25	18-16	18-17
CC-58A	18-18	---
D-13	18-19	18-21
D-45, D-46	18-22	---
D-50, D-51, D-53, D-54	20-1	20-2
E-76, E-77	18-23	18-25
F-62	19-1,2	19-6
FA-15	16-3	---
J-4	18-26	---
J-5	18-27	---
J-51P	16-4	---
J-62, J-62C	18-28	---
JA-328	18-29	---

MODEL	FROM	THROUGH
RADIO WIRE TELEVISION (Cont'd) (LAFAYETTE)		
JL-5	18-30	---
JL-6	19-7	---
JL-7, JL-8	19-8	---
JS-1	19-9	19-10
JS-2	19-11	---
JS-115	19-12	---
JS-135	19-13	---
JS-135A	19-14	---
JS-166, JS-167	19-15	---
JS-172, See FADA Models P24, PL72	13-2	---
JS-173	19-16	---
JS-174	19-17	---
JS-176	19-18	---
JS-183	19-19	---
JS-184, JS-185	19-16	---
JS-186, JS-187	19-20	---
JS-188, JS-189, JS-190	20-3	---
JS-191	20-4	---
JS-193	20-5	---
JS-241, See FADA Model 177	13-9	---
JS-242	20-6	---
JS-256	20-5	---
JS-300	20-4	---
JS-310, See FADA Model 278	13-19	---
JS-319	19-12	---
M-8	20-7	---
M-19	20-8	20-9
M-61	20-10	---
M-62, M-62C	20-11	---
M-70	17-1,2	17-6
M-70A	17-6	17-11
M-71	17-1,2	17-6
M-72, M-73	C18-8	---
MB-3, MB-3A	20-12	20-14
MC-10	20-15	---
MC-11	16-5	16-6
MC-16	20-16	---
1-421	20-17	---
1-422	20-18	---
1-427	20-19	---
1-524	20-20	---
1-542	20-17	---
1-819	20-21	20-22
1-1205	20-23	20-25
1E-629	20-31	---
617, 618	20-26	---
619, 620	20-27	---
621, 622	20-28	20-29
651, 653	20-32	---
655	20-33	---
1030TP	20-30	---
1300	20-34	---
THE RADOLEK CO.		
35	Misc.17-12	---
RAYMOND ROSEN & CO.		
MI-13154	18-1,2	18-5
REGAL ELECTRONICS CORP.		
BP-48	19-1	---
CR-761	19-2	19-4
CR-762	20-1	20-2
CR-762T	20-2	20-3
L-43	19-5	---
W800	16-1	---
	C20-11	---
W900	16-2	16-3
	C20-13	---
78	19-6	---
205	19-7	---
208	C18-11	---
700	17-1	---
747	17-2	17-3
777	18-1	---
800	16-1	---
	C20-11	---
801	16-1	---
	C20-11	---
900	16-2	16-3
	C20-13	---
1049	16-2	---
	16-4	---
1107	19-8	---
1500	19-9	19-10

MODEL	FROM	THROUGH
REGAL ELECTRONICS CORP. (Cont'd)		
1749	17-4	17-7
7152	18-2	---
7162	18-3	18-4
7163	18-5	18-6
7251	19-11	---
REMLER CO., LTD.		
Scottie	19-1	---
MP5-5-3	C17-8	---
5100	Misc.16-9	---
	C18-11	---
5300B, 5300BI, 5300I	Misc.17-13	---
5310, Early	18-1	18-2
	18-4	---
5310, Late	18-1	---
	18-3	18-4
5400	18-1	---
	18-4	18-5
5410	18-1	---
	18-5	---
5500	18-1	---
	18-4	18-5
5505	18-1	---
	18-5	---
5510	18-1	---
	18-5	---
5515	18-1	---
	18-5	---
5520	18-1	---
	18-4	18-5
5530	18-1	---
	18-4	18-5
5535	18-1	---
	18-5	---
5560	18-4	18-5
5565	18-4	18-5
6000, Scottie	19-1	---
7110, 7120	19-2	19-6
REXEL MERCHANDISE CO.		
L-266	16-1	16-2
L-266-A	16-3	16-4
L-266-U	16-5	16-6
ROBERT-LAWRENCE ELECTRONICS CORP.		
101-6T	17-1	17-2
102-L-6T	17-3	17-5
201W-6T	17-1	17-2
ROD RADIO MANUFACTURING CO.		
6R608	Misc.20-6	---
RYAN SALES CO.		
C5TS3	16-1	16-2
THE SARGENT-RAYMENT CO.		
SR28FAM	Misc.20-7	---
SCOTT RADIO LABS., INC.		
Export Receiver	18-1	18-41
Imperial, All Wave	16-1	---
Metropolitan	18-81,82	18-83,84
SLR-12-A	18-42	18-80
16A, Metropolitan	18-81,82	18-83,84
500	19-1	19-19
800-B	C17-8	---
800-B6	16-2	---
SEARS, ROEBUCK & CO. (SILVERTONE)		
100.156, Ch.	18-1	18-8
100.184, Ch.;	20-20	20-27
Moto-Matic Tuner	20-6	20-19
100.185, Ch.;	20-28	20-35
Moto-Matic Tuner	20-6	20-19
100.186, Ch.;	20-36	20-43
Moto-Matic Tuner	20-6	20-19
101.393, Ch.	C18-11	---
101.471, Ch.	18-9	18-14
101.581, Ch.	11-64	---
	11-80	---
	11-82	---
	C19-8	---
101.622-2E, Ch.	19-11	19-14

SEARS, ROEBUCK & CO. (Cont'd)

MODEL	FROM	THROUGH
101.662-3C, Ch.	19-11	19-14
101.662-4E, Ch.	19-11	19-14
101.662-5F, Ch.	19-11	19-14
101.666A, 101.666-1B, Ch.	19-15	19-17
101.667B, Ch.	19-18	19-21
101.667-1B, Ch.	19-22	19-25
101.800A, 101.800-1, Ch.	C18-11	---
101.802-1, Ch.	15-15	15-18
	C19-8	---
101.802A, Ch.	15-15	15-18
	C19-8	---
101.807, Ch.	16-1	16-3
101.807A, Ch.	16-1	16-3
101.808, Ch.	16-1	16-3
	C19-8	---
101.808-1C, 101.808-1D, Ch.	C18-11	---
	C19-8	---
101.809, Ch.	16-1	---
	16-4	16-5
	16-8	---
	C18-11	---
101.809-1A, 101.809-1B, Ch.	16-1	---
	16-4	16-5
	16-8	---
	C18-11	---
	C20-13	---
101.809-2, Ch.	16-1	---
	16-4	16-5
	16-8	---
	C18-11	---
	C20-13	---
101.809-3C, Ch.	16-1	---
	16-4	16-5
	16-8	---
	C18-11	---
	C20-13	---
101.810, Ch.	18-39	18-43
101.810-1A, Ch.	18-41	18-42
	18-44	---
101.810-3, Ch.	18-39	18-43
101.811, Ch.	16-1	---
	16-4	16-5
	16-8	---
	C18-11	---
	C19-8	---
101.813, Ch.	17-11	17-12
	17-15	---
101.814, 101.814-1A, Ch.	18-26	18-29
101.814-2B, Ch.	18-29	18-30
	18-33	18-34
101.814-3B, Ch.	18-29	---
	18-31	---
	18-33	---
	18-35	---
101.814-4C, Ch.	18-26	18-29
101.814-5C, Ch.	18-29	---
	18-31	---
	18-33	---
	18-35	---
101.814-6C, Ch.	18-29	---
	18-32	18-35
101.817, Ch.	17-2	17-3
	17-15	---
101.817-1A, 101.817-2A, Ch.	17-2	17-3
	17-5	---
	C20-12	---
101.819A, Ch.	18-49	18-51
101.820, Ch.	17-4	17-5
	17-15	---
101.821, Ch.	18-53	18-55
101.822, 101.822A, Ch.	19-45	19-47
101.823, 101.823A, 101.823-1, 101.823-1A, Ch.	16-6	16-8
101.828, 101.828-1A, Ch.	18-45	18-48
101.829, Ch.	19-33	19-34
101.833, 101.833-1A, Ch.	19-38	19-41
101.834, Ch.	17-13	17-14
101.835, Ch.	19-42	19-44
101.839, Ch.	19-29	19-30
101.849, Ch.	19-48	19-50
101.850, Ch.	19-51	19-52
101.852, Ch.	19-31	19-32
109.371, 109.371-1, Ch.	18-15	18-19
110.452, 110.452-1, Ch.	19-6	19-7
110.466, 110.466-1, Ch.	18-36	18-38
110.473, Ch.	19-35	19-37
132.802-2C, 132.802-2D, 132.802-2E, Ch.	C18-11	---

SEARS, ROEBUCK & CO. (Cont'd)

MODEL	FROM	THROUGH
132.807-2, Ch.	C18-11	---
132.816, 132.816A, Ch.	20-1	20-3
132.818-1, Ch.	18-52	18-53
132.820, Ch.	18-20	18-22
132.825-1, 132.825-2, 132.825-3, 132.825-4, Ch.	19-1	19-5
132.826, 132.826-1, Ch.	19-8	19-10
132.838, Ch.	17-6	17-7
	17-15	---
132.839, Ch.	17-8	17-10
132.840, Ch.	19-26	19-28
	C20-13	---
132.841, Ch.	18-56	---
	18-58	18-60
	C20-13	---
132.841, Revised, Ch.	18-57	---
132.857, Ch.	20-63	20-64
132.858, Ch.	20-65	20-66
132.868, Ch., Revised	20-44	20-47
132.871, Ch.	20-67	20-69
135.242, Ch.	20-58	20-59
135.243, Ch.	20-60	20-62
135.244, Ch.	20-70	20-72
139.151, Ch.	17-1	---
141.416, Ch.	18-23	18-25
141.417, Ch.	C18-11	---
434.140, Ch.	20-4	20-5
478.206, Ch.	20-48	20-52
478.206-1, Ch.	20-53	20-57
547.245, Ch.	20-73	20-75
3351, 3451, 3551, Ch. 132.802-2C, 132.802-2D, 132.802-2E	C18-11	---
4486, Ch. 100.156	18-1	18-8
4518, Ch. 101.393	C18-11	---
4586, 4586-A, 4586-B, Ch. 100.156	18-1	18-8
4663, 4763, Ch. 101.471	18-9	18-14
5372, 5372-B, Ch. 109.371, 109.371-1	18-15	18-19
6011, Ch. 132.816; 6012, Ch. 132.816A	20-1	20-3
6015, 6016, Ch. 132.820	18-20	18-22
6050, Ch. 132.825, 132.825-1, 132.825-2, 132.825-3, 132.825-4	19-1	19-5
6052, Ch. 110.452; 6052A, Ch. 110.452-1	19-6	19-7
6071, Ch. 132.826, 132.826-1	19-8	19-10
6106, Ch. 101.662-2E; 6106A, Ch. 101.662-4E	19-11	19-14
6111, Ch. 101.662-3C; 6111A, Ch. 101.662-5F	19-11	19-14
6200A, 6203, Ch. 101.800-1, 101.800A	C18-11	---
6230A, Ch. 101.802-1	15-15	15-18
	C19-8	---
6285, Ch. 101.666A, 101.666-1B	19-15	19-17
6290, Ch. 101.667B	19-18	19-21
6290, Ch. 101.667-1B	19-22	19-25
6362, 6363, 6364, Ch. 101.581	11-64	---
	11-80	---
	11-82	---
	C19-8	---
6686, Ch. 139.151	17-1	---
7020, Ch. 101.807	16-1	16-3
7021, Ch. 101.807A	16-1	16-3
7025, Ch. 132.807-2	C18-11	---
7046, Ch. 141.416	18-23	18-25
7054, Ch. 101.808	16-1	16-3
	C19-8	---
7056, Ch. 141.417	C18-11	---
7070, Ch. 101.817	17-2	17-3
	17-15	---
7080, Ch. 101.809; 7080A, Ch. 101.809-2	16-1	---
	16-4	16-5
	16-8	---
	C18-11	---
	C20-13	---
7085, Ch. 101.814	18-26	18-29
7086, Ch. 110.466	18-36	18-38
7090, Ch. 101.810 101.810-3	18-39	18-43
7100, Ch. 101.811	16-1	---
	16-4	16-5
	16-8	---
	C18-11	---
	C19-8	---
7102, Ch. 101.814-1A	18-26	18-29
7103, Ch. 110.466-1	18-36	18-38

SEARS, ROEBUCK & CO. (Cont'd)

MODEL	FROM	THROUGH
7105, 7106, Ch. 101.828, 101.828-1A	18-45	18-48
7111, Ch. 434.140	20-4	20-5
7165, Ch. 101.823, 101.823-1	16-6	16-8
7166, Ch. 101.823A, 101.823-1A	16-6	16-8
7210, Ch. 101.820	17-4	17-5
	17-15	---
7216, Ch. 101.184;	20-20	20-27
Moto-Matic Tuner	20-6	20-19
7217, Ch. 100.185;	20-28	20-35
Moto-Matic Tuner	20-6	20-19
7218, 7222, Ch. 100.186;	20-36	20-43
Moto-Matic Tuner	20-6	20-19
7226, Ch. 101.819A	18-49	18-51
7230, Ch. 101.802A	15-15	15-18
	C19-8	---
8000, Ch. 132.838	17-6	17-7
	17-15	---
8003, Ch. 132.818-1	18-52	18-53
8005, Ch. 132.839	17-8	17-10
8010, Ch. 132.840	19-26	19-28
8011, Ch. 132.840	19-26	---
	C20-13	---
8020, Ch. 132.841	18-56	---
	18-58	18-60
	C20-13	---
8020, Revised, Ch. 132.841	18-57	---
8021, Ch. 132.868, Revised	20-44	20-47
8022, Ch. 478.206	20-48	20-52
8024, 8025, Ch. 478.206-1	20-53	20-57
8050, Ch. 101.813	17-11	17-12
	17-15	---
8051, Ch. 101.839	19-29	19-30
8052, Ch. 101.808-1C	C18-11	---
	C19-8	---
8053, Ch. 101.808-1D	C18-11	---
	C19-8	---
8070, Ch. 101.817-1A; 8070A, Ch. 101.817-2A	17-2	17-3
	17-5	---
	C20-12	---
8071, Ch. 135.242	20-58	20-59
8072, Ch. 101.834	17-13	17-14
8073, Ch. 135.243	20-60	20-62
8080, Ch. 101.852	19-31	19-32
8083, 8083A, Ch. 101.809-1A; 8084, 8084A, Ch. 101.809-1B	16-1	---
	16-4	16-5
	16-8	---
	C18-11	---
	C20-13	---
8085, Ch. 101.814-4C	18-26	18-29
8086, Ch. 101.814-5C	18-29	---
	18-31	---
	18-33	---
	18-35	---
8086A, 8086B, Ch. 101.814-6C	18-29	---
	18-32	18-35
8090, Ch. 101.821	18-53	18-55
8092, Ch. 101.810-1A	18-41	18-42
	18-44	---
8100, Ch. 101.829	19-33	19-34
8101, 8101A, 8101B, 8101C, Ch. 101.809-3C	16-1	---
	16-4	16-5
	16-8	---
	C18-11	---
	C20-13	---
8102, Ch. 101.814-2B	18-29	18-30
	18-33	18-34
8102A, Ch. 101.814-3B	18-29	---
	18-31	---
	18-33	---
	18-35	---
8102B, Ch. 101.814-2B	18-29	18-30
	18-33	18-34
8103, Ch. 110.473	19-35	19-37
8105, 8105A, 8106, 8106A, Ch. 101.833, 101.833-1A	19-38	19-41
8230, Ch. 101.835	19-42	19-44
8270, 8270A, Ch. 101.822, 101.822A	19-45	19-47
9000, Ch. 132.857	20-63	20-64
9005, 9006, Ch. 132.858	20-65	20-66
9022, Ch. 132.871	20-67	20-69
9054, Ch. 101.849	19-48	19-50
9073, Ch. 135.244	20-70	20-72
9101, Ch. 101.809-3C	16-1	---
	16-4	16-5
	16-8	---
	C18-11	---
	C20-13	---
9260, Ch. 101.850	19-51	19-52
9270, Ch. 547.245	20-73	20-75

THE SEIBERLING RUBBER CO.

MODEL	FROM	THROUGH
1A5	17-1	17-2
9AC	17-3	17-4

SENTINEL RADIO CORP.

MODEL	FROM	THROUGH
L-284I, L-284NA, L-284NI, L-284NR, L-284W	16-8	16-10
1U-248	18-4	18-6
1U-284GA	16-6	16-7
	16-19	---
1U-285P	16-11	16-13
1U-286	C18-12	---
1U-293CT	16-17	16-19
1U-309-I, 1U-309-R, 1U-309-W	17-1	17-3
1U-313I, 1U-313W	19-9	19-11
1U-314E, 1U-314I, 1U-314W	19-12	19-14
1U-316PM, 1U-316PT	19-15	19-17
1U-330-I, 1U-330-R, 1U-330-W	19-21	19-23
216J	18-1	18-3
247	16-1	16-2
	16-10	---
248	18-4	18-6
276P	16-4	16-5
284GA	16-6	16-7
	16-19	---
285P	16-11	16-13
286P, 286PR	16-14	16-16
	C18-11	---
292-K	20-1	20-3
293CT	16-17	16-19
296-B, 296-M	19-1	19-8
302-I, 302-T, 302-W	17-4	17-9
309-I, 309-N, 309-R, 309-W	17-2	---
	17-10	---
313I, 313W	19-9	19-11
314E, 314I, 314W	19-12	19-14
315-I, 315-W	20-4	20-8
316PM, 316PT	19-15	19-17
319PM, 319PT	19-18	19-20
323-K	20-9	20-11
329-I, 329-R, 329-W, Series A, Series B	20-12	20-14
330-I, 330-R, 330-W	19-21	19-23
331-I, 331-R, 331-W	20-15	20-17
332-I, 332-W	20-18	20-20
333-I, 333-W	20-21	20-25
510	16-20	---

SETCHELL-CARLSON, INC.

MODEL	FROM	THROUGH
Dor-A-Fone	20-2	---
408	17-1	---
416	C18-11	---
427	16-1	---
	C18-12	---
437	17-2	---
447	16-2	---
449	20-1	---
458RD, Dor-A-Fone	20-2	---
469	20-3	---
4182	20-4	---
4382	20-5	---

HAROLD SHEVERS INC. (GOTHAM)

MODEL	FROM	THROUGH
8121	18-1	18-7

SIGNAL ELECTRONICS, INC.

MODEL	FROM	THROUGH
AF252	20-1	20-3
241	19-1	19-2
341A	20-4	---
341T	Misc.16-10	---

SILVERTONE

See SEARS, ROEBUCK & CO.

MODEL	FROM	THROUGH

SIMMONS CO.

MODEL	FROM	THROUGH
AB-1, Electronic Blanket	19-2	---
AC-1, Electronic Blanket	19-1	---
AC-2, Electronic Blanket	19-2	---

SKYROVER
See BUTLER BROTHERS

SONORA RADIO & TELEV. CORP.

MODEL	FROM	THROUGH
A, Ch.	16-1	---
A-11, Ch. A	16-1	---
EA-33	19-1	19-2
KBU-168	C18-11	---
RBMU-176	16-2	---
RDA, RDAU	17-1	17-2
RDU-209	C17-8	---
RET	17-3	17-5
RGMF-212, RGMF-230	16-3	---
RK-215, RKRU-215	16-2	---
	16-4	---
RMR	17-6	17-8
RMR-219, RMR-220, RMR-245	C18-11	---
RQ-222, RQU-222	16-5	---
RYMU-224	16-6	---
RZLU	17-9	17-10
RZU-222	17-11	17-12
WA, WAU	16-4	---
	16-7	---
WBRU-239	18-1	18-2
WCU-246, WCU-247	17-13	---
WDU	17-14	17-15
WEU-240, WEU-262	18-3	18-4
WGF, WGFU	16-8	---
WJ, WJU	17-16	---
WKRU-254	19-3	19-4
WLRU-219, WLRU-220A, WLRU-254A	19-5	19-6
WTRU-254A	18-5	18-7
100I, 100M	18-8	---
101B, 101B-B	18-9	---
102B, 102G	18-10	---
171, 172	Misc.20-8	---
401	19-7	19-8
402A	C18-11	---
402F	19-5	19-6

SOUND VIEW MARINE CO.

MODEL	FROM	THROUGH
Sea Mate	Misc.17-14	---

THE SPARKS-WITHINGTON CO. (SPARTON)

MODEL	FROM	THROUGH
4E10, Ch.	20-14	20-16
5-07-PA	19-1	19-4
5A10, Ch.	20-10	20-13
5-16, 5-AW16	17-1	17-2
5-26, 5-26PS, 5-26X	16-1	16-2
6-26, 6-26PA	16-12	16-14
6-66	18-1	18-2
6F1	16-3	16-5
6F1D	16-5	16-8
6F2D	16-9	16-11
8L9, 8L9A, Ch.	20-1	20-9
8-57, Ch.	18-3	18-10
	C19-8	---
9L8, Ch.	19-14	19-22
10 Series, 10-21	17-3	17-6
10-76-PA	17-7,8	17-14
12L7, Ch.	19-5,6	19-13
121, Ch. 8L9, 8L9A	20-1	20-9
122, Ch. 8L9A	20-1	20-9
130, 132, 135, 139, Ch. 5A10	20-10	20-13
141, 142, Ch. 8L9A	20-1	20-9
150, 151, 152, 155, Ch. 4E10	20-14	20-16
843SX	17-15,16	17-22
1000, 1001, 1003, Ch. 12L7	19-5,6	19-13
1005, 1006, 1007, 1008, Ch. 8-57	18-3	18-10
	C19-8	---
1020, 1021, 1023, Ch. 12L7	19-5,6	19-13
1035, 1035A, 1036, 1036A, 1037, 1037A, Ch. 9L8	19-14	19-22
1058, 1059, 1060, 1061, 1064, Ch. 8L9, 8L9A	20-1	20-9
1071MGP, Ch. 8L9A	20-1	20-9
1072, Ch. 8L9, 8L9A	20-1	20-9
1072MGP, Ch. 8L9A	20-1	20-9

SPARTON
See THE SPARKS-WITHINGTON CO.

SPIEGEL (AIRCASTLE)

MODEL	FROM	THROUGH
CB-7553	19-1	19-2
G-516	19-3	19-4
G-518	17-1	---
G-521	18-1	18-2
G-722	18-3	18-5
G-724	18-6	18-8
G-725	17-3	17-6
SC-448, F-M Tuner	20-1	20-3
T-2625	16-1	16-3
WAU-243	19-5	19-6
9	18-9	18-10
77	18-11	18-16
179	18-17	18-19
180	18-20	18-22
201	20-4	---
211	20-5	20-6
212	20-7	20-8
213	20-9	20-10
572	19-7	---
770	18-11	18-16
831	16-4	16-6
5000	17-7	---
5000-2	17-8	---
5003	17-9	---
5008	17-10	---
5011, 5012	19-8	19-9
5015	17-11	---
5019	17-12	17-13
5020	16-3	---
	16-7	---
5021	17-14	---
5024	17-15	---
5025	17-13	---
	17-16	---
5027	19-10	19-11
5028	19-12	19-13
5029	18-23	18-24
5030, 5031	17-17	---
5035	18-25	---
5036	20-11	20-12
5050	17-18	---
5051	19-14	---
5052	17-2	---
6041	19-15	---
6042, 6050	20-13	---
6612	18-26	18-29
7541, 7547	19-16	19-18
8714, 8715, 8718	19-16	19-18
10001	18-30	---
10002	18-31	---
10003	20-14	---
10005	20-15	20-16
10023	20-17	---
11305	18-32	18-33
11802	18-34	18-35
13203	19-19	19-20
108014, 108504	18-36	18-38
114114	18-40	18-42
121104	20-18	20-22
121124	20-23	20-27
127084	18-38	18-39
131504	19-21	19-24
132564	18-43	18-44
138104	19-25	19-26
138124	19-27	19-28
139144	20-28	20-33
147114	19-29	19-30
149654	20-34	20-37
150084	20-38	20-41

STARK SOUND ENGINEERING CORP.

MODEL	FROM	THROUGH
1010	20-1	20-2
1020	20-3	20-4

STEWART-WARNER CORP.

MODEL	FROM	THROUGH
A41T1, Code 9032A	17-1	17-3
	C20-13	---
A51T1, Code 9020A; A51T2, Code 9020B; A51T3, Code 9020C; A51T4, Code 9020D	17-4	17-6
	C20-13	---
A61C20, Code 9034-P; A61CR1, Code 9034C; A61CR1LP, (Continued on next line)		

MODEL	FROM	THROUGH
STEWART-WARNER CORP. (Cont'd)		
Code 9034-CLPW; A61CR2, Code 9034-D; A61CR2LP, Code 9034-DLP; A61CR3, Code 9034-E; A61CR4, Code 9034-F; A61CR4X, Code 9034-FX; A61CR4LP, Code 9034-FLP; A61CR4LPX, Code 9034-FLPX; A61CR5, Code 9034-G; A61CR6, Code 9034-H; A61CR7, Code 9034-J; A61CR7LPW, Code 9034-JLPW; A61CR7LPWX, Code 9034-JLPWX; A61CR7X, Code 9034-JX; A61CR8, Code 9034-K; A61CR9, Code 9034-L; A61CR10, Code 9034-M; A61CR11, Code 9034-N; A61CR12, Code 9034-GR; A61CR12LP, Code 9034-GRLP; A61CR13, Code 9034-GL; A61CR13LP, Code 9034-GLLP; A61CR14, Code 9034-GM; A61CR14LP, Code 9034-GMLP; A61CR15, Code 9034-GT; A61CR15LP, Code 9034-GTLP; A61CR16, Code 9034-FH; A61CR16LP, Code 9034-FHLP; A61CR17, Code 9034-CM; A61CR17LP, Code 9034-CMLP; A61CR21, Code 9034-R	17-3	---
	17-7	17-8
	C20-14	---
A61P1, A61P2, A61P3	17-6	---
	17-9	17-10
A72T1, Ch. 9026A; A72T2, Ch. 9026B; A72T3, Ch. 9026C; A72T4, Ch. 9026D	19-1	19-7
A92CR3, A92CR6	17-11,12	17-21
B51T1, Code 9044-A; B51T2, Code 9044-B; B51T3, Code 9044-C; B51T4, Code 9044-D	20-1	20-2
B61T1, Code 9046-A; B61T2, Code 9046-B	20-3	20-4
B-72CR1, Code 9038-B	18-1,2	18-6
B92CR1, Ch. 9043A; B92CR2, Ch. 9043B; B92CR3, Ch. 9043C; B92CR4, Ch. 9043D	19-8	19-14
B92CR8, Ch. 9043K; B92CR9, Ch. 9043L; B92CR10, Ch. 9043M	19-8	19-14
C51T1, Code 9045-A; C51T2, Code 9045-B	20-5	20-6
R-3271, R-3271C	18-7	18-8
R-3291, R-3291C	18-9	18-10
51T126, 51T136, 51T146, 51T176, Codes 9018-B, 9018-C, 9018-F, 9018-H	18-15	18-16
61T, Code 9022T	15-7	15-8
	C20-14	---
61T1R, Code 9022A; 61T16W, Code 9022AW; 61T26, Code 9022B	15-7	15-8
	C20-14	---
61TR36, Code 9029-B	C18-12	---
61TR46, Code 9029-H	C18-12	---
61TR56, Code 9029-J	C18-12	---
61TR66, Code 9029-K	C18-12	---
61TR76, Code 9029-L	C18-12	---
3341, 3341-R Late, 3371	18-11	18-14
9010A	16-1,2	16-8
9013-A	16-8	16-12
9017-A, 9017-B	C17-8	---
9018-B, 9018-C, 9018-F, 9018-H, Codes	18-15	18-16
9020A, 9020B, 9020C 9020D, Codes	17-4	17-6
	C20-13	---
9022A, 9022AW, 9022B, 9022T, Codes	15-7	15-8
	C20-14	---
9026A, 9026B, 9026C, 9026D, Ch.	19-1	19-7
9029-B, 9029-H, 9029-J, 9029-K, 9029-L, Codes	C18-12	---
9032A, Code	17-1	17-3
	C20-13	---
9034-C, 9034-CLPW, 9034-CM, 9034-CMLP, 9034-D, 9034-DLP, 9034-E, 9034-F, 9034-FH, 9034-FHLP, 9034-FLP, 9034-FLPX. (Continued on next line)		

MODEL	FROM	THROUGH
STEWART-WARNER CORP. (Cont'd)		
9034-FX, 9034-G, 9034-GL, 9034-GLLP, 9034-GM, 9034-GMLP, 9034-GR, 9034-GRLP, 9034-GT, 9034-GTLP, 9034-H, 9034-J, 9034-JLPW, 9034-JLPWX, 9034-JX, 9034-K, 9034-L, 9034-M, 9034-N, 9034-P, 9034-R, Codes	17-3	---
	17-7	17-8
	C20-14	---
9038-B, Code	18-1,2	18-6
9041-A	20-7	20-10
9042-A	20-11	20-14
9043A, 9043B, 9043C, 9043D, Ch.	19-8	19-14
9043K, 9043L, 9043M Ch.	19-8	19-14
9044-A, 9044-B, 9044-C, 9044-D, Codes	20-1	20-2
9045-A, 9045-B, Codes	20-5	20-6
9046-A, 9046-B, Codes	20-3	20-4
9050-A	20-15	20-18
STROMBERG-CARLSON CO.		
1105	16-1	16-3
1110	16-4	16-7
1135	16-8	16-9,10
	16-16	16-19
1135A	16-11,12	16-15
1200, 1202	18-1	18-3
1204HB, 1204HI, 1204HME, 1204HMG, Ch. 112021	18-4	18-6
	C19-8	---
1210M2-M, 1210M2-W, 1210M2-Y, 1210PG-M, 1210PG-W, 1210PL-M, Series 10-11	17-1,2	17-7
	C19-8	---
1235	C18-12	---
1400, 1400 Special	18-1	18-3
	C19-8	---
1406PLA, 1406PLM	19-1,2	19-4
1407PFM, 1407PLM	19-5	19-11,12
1408M6A, 1408PLM	17-1	17-7
	C19-8	---
1409M-2W, 1409M2-M, 1409M2-Y, 1409M3A, 1409M3M, 1409PGM, 1409PGW	19-5	19-11,12
112021, Ch.	18-4	18-6
	C19-8	---
STUDEBAKER See PHILCO CORP.		
SYMPHONY RADIO & TELEV. CORP.		
Biltmore	18-1	18-2
200, 200L-R	18-3	---
250	19-1	---
255	19-2	---
260	18-4	---
348	18-5	18-6
TAFFET RADIO & TELEV. CO.		
A-46 Series	Misc.19-20	---
C47, D47, E47, Series	Misc.18-15	---
TP41	Misc.18-15	---
653	20-1	20-2
TELECHRON, INC.		
Musalarm	16-1	16-4
8H59, Musalarm	16-1	16-4
8H67	18-1	18-4
TELECOIN CORP.		
M5TS4	16-1	16-2
TELE-TONE RADIO CORP.		
Dynamite	Misc.16-11	---
Series H	Misc.16-11	---
Series N	Misc.16-11	---
A, Ch.	15-2	---
	C20-15	---
AA, AB, Ch.	18-3	---
AD, Ch.	18-1	18-2
AE, Ch.	18-5	---
AG, Ch.	18-6	---
AH, Ch.	Misc.19-21	---
AM, Ch.	18-9	---

TELE-TONE RADIO CORP. (Cont'd)

MODEL	FROM	THROUGH
AN, Ch.	18-6	---
AT, Ch.	18-7,8	---
AZ, Ch.	18-10	---
CA, Ch.	17-1	17-2
D, Ch.	15-4	---
	C20-15	---
H, Ch.	C18-13	---
R, Ch.	17-1	17-2
S, Ch.	18-1	---
T, Ch.	17-2	17-3
	C18-13	---
U, Ch.	17-4	---
	C20-15	---
W, Ch.	17-2	17-3
	C20-15	---
Y, Ch.	18-4	---
110, Ch. D	15-4	---
	C20-15	---
117, 117A, 118, 119	C17-8	---
119, Ch. D	15-4	---
	C20-15	---
123, Ch. A	15-2	---
	C20-15	---
124, Ch. D	15-4	---
	C20-15	---
125, Ch. A	15-2	---
	C20-15	---
126, Ch. D	15-4	---
	C20-15	---
127, Ch. A	15-2	---
	C20-15	---
131, Ch. A	15-2	---
	C20-15	---
132, Ch. D	15-4	---
	C20-15	---
133, Ch. CA	17-1	17-2
135, Dynamite, Series H	Misc.16-11	---
138, Series N	Misc.16-11	---
139, 140, 141, Ch. H	C18-13	---
145, Ch. R	17-1	17-2
148, Ch. S	18-1	---
149, Ch. H	C18-13	---
150, Ch. T	17-2	17-3
152, Ch. R	17-1	17-2
152, Ch. W	17-2	17-3
154, 155, Ch. W	17-2	17-3
	C20-15	---
156, Ch. U	17-4	---
157, Ch. H	C18-13	---
158, Ch. AT	18-7,8	---
159, Early, Late, Ch. AA, AB	18-3	---
160, Ch. Y	18-4	---
161, Ch. T	17-2	17-3
	C18-13	---
163, Ch. H	C18-13	---
164, Ch. H	C18-13	---
165 Early, Ch. AD	18-1	18-2
165 Late, Ch. AG	18-6	---
166 Early, Ch. AE	18-5	---
166 Late, Ch. AN	18-6	---
167, Ch. T	17-2	17-3
	C18-13	---
168, Ch. T	17-2	17-3
	C18-13	---
171, Ch. T	17-2	17-3
	C18-13	---
172, Ch. U	17-4	---
	C20-15	---
173, Ch. W	17-2	17-3
	C20-15	---
174, Ch. T	17-2	17-3
	C18-13	---
175, Ch. AG	18-6	---
176, Ch. U	17-4	---
	C20-15	---
177, Ch. W	17-2	17-3
	C20-15	---
184, Ch. AM	18-9	---
185, Ch. AH	Misc.19-21	---
190, Ch. AZ	18-10	---
198, Ch. AT	18-7,8	---

TEMPLE

See TEMPLETONE RADIO MFG. CORP.

TEMPLETONE RADIO MFG. CORP.
(TEMPLE)

MODEL	FROM	THROUGH
G-410	18-1	---
G-415	18-2	18-3

TEMPLETONE RADIO MFG. CORP (Cont'd)

MODEL	FROM	THROUGH
G-418	17-1	---
G-513, G-515	18-4	18-5
G-516	19-1	---
G-521	18-6	18-7
G-522	18-8	18-9
G-612	17-2	---
G-615, G-618	19-2	19-3
G-722, G-723	19-4	19-6
G-724	18-10	18-12
G-725	17-3	17-6
G-1430	19-7,8	19-10
G-5100, G-5101	18-4	18-5
H-127	17-3	17-6
H-411	19-11	---
H-415	18-2	18-3
H-501	19-12	19-13
H-521	19-14	---
H-622	19-15	19-16

TOM THUMB

See AUTOMATIC RADIO MFG. CO., INC.

TRADIO, INC.

MODEL	FROM	THROUGH
L5	17-1	17-2
L-U6	17-3	17-5
TF6	Misc.18-16	---
T-U6-1	17-6	17-10

TRANSVISION INC.

MODEL	FROM	THROUGH
7-Inch Kit	16-1,2	16-4

TRAV-LER RADIO CORP.

MODEL	FROM	THROUGH
SD54, Ch.	18-4	---
5003, 5004, 5005, 5006	16-1	---
5015	17-1	---
5019	16-2	---
5021	18-1	---
5025	18-2	18-3
5027	17-2	17-3
5028	17-3	17-4
5030, 5031	16-3	---
5035, Ch. SD54	18-4	---
5036	18-5	---
5044	20-1	---
5049	18-6	---
5050	17-5	---
5051	17-6	---
5052	17-7	---
5054	19-1	---
5055	17-8	---
5056	19-2	---
5066	19-3	---
6040	19-4	---
6050, 6053	20-2	20-3

TRUETONE

See WESTERN AUTO SUPPLY CO.

UNITED MOTORS SERVICE
(DELCO)

MODEL	FROM	THROUGH
Auto Permiability Tuner	20-1	20-7
R-705	17-1	17-6
	C19-8	---
	C20-15	---
Electro Tuner	18-1	18-5
R-1226	18-6	18-7
R-1227, R-1228, R-1229	16-1	16-2
R-1230, R-1230A, R-1231, R-1231A, R-1232	17-7	17-11
R-1233	18-8	18-10
R-1236	20-8	20-12
R-1238	19-1	19-4
R-1241	19-5	19-8
R-1242	19-9	19-12
R-1243	19-13	19-16
R-1244, R-1245, R-1246	19-17	19-20
R-1248, R-1249, R-1250	20-13	20-19
R-1251, R-1252, X	17-12	17-27,28
	17-31,32	---
R1251, R1252, XX, XXX	17-12	---
	17-15,16	---
	17-21	17-31,32
R-1253, R-1254	18-11,12	18-19
R-1408, R-1409	16-3	16-4
R-1410	19-21	19-24
508	19-25	19-28
608	19-29	19-33

UNITED MOTORS SERVICE (Cont'd)

MODEL	FROM	THROUGH
808	20-20	20-24
980690 Revised; 980733; Buick	16-5	16-7
980782, Buick	19-34	19-38
980797, 980798, Buick	18-20	18-21
980851, Buick	20-25	20-26
980868, Buick	20-26	20-31
982399, Oldsmobile	16-8	16-10
982375, Oldsmobile, Above Serial 700C001	20-32	20-35
982400, Oldsmobile	18-22	18-27
982420, Early, Late, Oldsmobile	19-39	19-43
982420, Oldsmobile, Serial B59-40001 and up	20-36	20-41
982421, Oldsmobile	19-44	19-49
	C20-15	---
982454, Oldsmobile	19-50	19-54
982455, Oldsmobile	19-55	19-59
984170, Pontiac	16-11	16-12
984172, Pontiac	17-33	17-35
984247, Pontiac	18-28	18-30
984248, Pontiac	18-31	18-35
984249, Pontiac	19-65	19-70
984273, Pontiac	19-71	19-73
984296, Pontiac	19-60	19-64
984570, Pontiac	20-42	20-47
986146, Chevrolet, Serial B47-1001 and up	19-74	19-75
986240, Chevrolet	20-48	20-58
986241, Chevrolet	18-42	18-46
2233029, GMC	18-36	18-41
7256609, Cadillac	18-47	18-51
7258155, Cadillac	19-76	19-80

U.S. TELEVISION MFG. CO.

MODEL	FROM	THROUGH
5-16M	16-1	16-2
5-36MPA	16-1	16-2
5-66 Series	20-1	---
8-16	Misc.19-22	---
8-16X	20-2	---
526	20-3	---
2001	20-4	---

VIEWTONE TELEVISION & RADIO CORP.

MODEL	FROM	THROUGH
VP100, VP100A, VP101A	16-1,2	16-4

V-LECTRICAL ENGINEERING CO.

MODEL	FROM	THROUGH
Z463, Z464P	Misc.17-15	---

WALGREEN CO. (AETNA)

MODEL	FROM	THROUGH
407, 3 Way Portable	18-1	---
407, 4 Tube Portable	18-2	---
418	18-2	---
505	17-1	17-2

WARWICK MFG. CO. (CLARION)

MODEL	FROM	THROUGH
C110	16-1	---
X132, YX132, Series	19-1	---
147 Series	19-2	---
149 Series	19-3	19-7
150 Series	19-8	19-12
155 Series	19-13	19-17
11011	17-1	17-2
11305	16-2	---
11411-N	17-3	17-4
11801	17-5	17-6
11802V-M	17-7	17-8
11901	19-18	19-19
12001	19-20	19-21
12110	19-22	19-26
12310W, 12312M	17-9	17-12
12708	18-1	18-2
12801	17-13	17-14
13101	19-27	19-31
13915	19-32	19-37
14515	19-38	19-43

WATTERSON RADIO MFG. CORP.
Also See J.W. DAVIS & CO.

MODEL	FROM	THROUGH
RC-4581	15-1	---
	C20-15	---
420, 424, 425, 440	18-1	---

WATTERSON RADIO MFG. CORP. (Cont'd)

MODEL	FROM	THROUGH
4582	C17-9	---
4725	Misc.17-15	---
4782	16-1	---
4790	16-2	---
4800	19-1	19-2
4801	18-2	---
4802	19-2	---

WELLS-GARDNER & CO. (ARCADIA)

MODEL	FROM	THROUGH
35A86-750	17-1	17-4
436A76-670	17-5	17-8

WESTERN AIR PATROL

MODEL	FROM	THROUGH
W-411, Ch.	18-1	---
W-835, Ch.	17-1	17-2
W-958, Ch.	18-2	---
185AW, Ch. W-411	18-1	---
258, Ch. W-958	18-2	---
587, Ch. W-835	17-1	17-2

WESTERN AUTO SUPPLY CO. (TRUETONE)

MODEL	FROM	THROUGH
D696	C18-13	---
D1118B	C18-13	---
D1180B	C17-8	---
D1612	18-1	18-2
D1644	17-1	17-2
D1645, Issue C	C17-8	---
D1747, D1748	17-3	17-7
D1752	18-3	18-9
D1835A	18-10	18-11
D1835B	19-1	19-3
D1836A, D1836B, D1836C	18-12	18-21
D1840	19-4	19-6
D1845A, D1845B	18-22	18-25
D1850	19-7	19-11
D1946	19-12	19-15
D1949	20-1	20-5
D1950	19-16	19-20
D1952	20-6	20-12
D2014	20-13	20-17
D2025A	20-18	20-22
D2616	16-1	16-3
D2619	16-3	16-5
D2621	17-8	17-9
D2622	18-26	18-27
D2623	17-10	17-11
D2624, Early	16-6	---
	16-8	16-10
D2624, Late	16-7	16-10
D2626	18-28	---
D2630	16-6	---
	16-8	16-10
D2634	18-29	18-30
D2640	18-31	---
D2642	17-12	17-13
D2644	16-10	16-11
D2645	16-12	16-14
D2661	17-14	17-15
D2663	18-32	18-33
D2665	18-34	18-36
D2690, 1st Type	19-21	---
D2690, 2nd Type	19-22	---
D2691	17-16	17-19
D2692	19-23	---
D2693A	18-37	---
D2693B	18-38	---
D2709	18-39	18-40
D2710	18-41	18-42
D2718, D2718A	17-20	17-23
D2718B	19-24	19-26
D2743	18-43	18-44
D2745	17-24	17-26
D2748	19-27	19-29
D2762	18-45	18-46
D2806, D2807	19-30	---
D2810	18-47	18-48
D2815	18-49	18-50
D2819A, D2819B, D2819C, D2819D, D2819E	19-31	19-41
D2851	19-42	19-44
D2906, D2907	19-45	---
D2910	19-46	19-47
D2919	20-23	20-28
D2923	19-48	19-50

MODEL	FROM	THROUGH
WESTERN AUTO SUPPLY CO. (Cont'd)		
D3615	20-29	20-31
D3619	19-51	19-53
D3630, D3630N	19-54	19-55
D3635	19-56	19-58
D3720	17-27	17-29
D3721	17-30	17-32
D3722	19-59	19-60
D3809	20-32	20-34
D3810	18-51	18-53
D3811	20-35	20-37
D3840	20-38	20-40
D3910	20-41	20-43
D4620	20-48	20-53
D4630A, D4630B, D4630C, D4630D, D4630E, D4630F	18-54	18-68
D4818	20-44	20-47
D4832A, D4832B	18-69	18-72
	C20-15	---
D4842A, D4842B	20-54	20-57
WESTINGHOUSE ELECTRIC CORP.		
H-104, H-104A	C17-9	---
H-104B, Ch. V-2102-3	17-1	17-4
H-104B, Ch. V-2102-5	17-4	17-8
H-105, H-105A	C17-9	---
H-105B, Ch. V-2102-3	17-1	17-4
H-105B, Ch. V-2102-5	17-4	17-8
H-107, H-107A	C17-9	---
H-107B, Ch. V-2102-3	17-1	17-4
H-107B, Ch. V-2102-5	17-4	17-8
H-108, H-108A	C17-9	---
H-108B, Ch. V-2102-3	17-1	17-4
H-108B, Ch. V-2102-5	17-4	17-8
H-110, Ch. V-2102-1	C18-13	---
H-110A, Ch. V-2102-2	C18-13	---
H-110B, Ch. V-2102-3	17-1	17-4
H-110B, Ch. V-2102-5	17-4	17-8
H-111, Ch. V-2102-1	C18-13	---
H-111A, Ch. V-2102-2	C18-13	---
H-111B, Ch. V-2102-3	17-1	17-4
H-111B, Ch. V-2102-5	17-4	17-8
H-113, H-114, H-116, H-117, H-119	16-1,2	16-7
H-122	15-5	15-7
	C17-9	---
H-124	15-8	15-10
	C19-8	---
H-125, H-126, H-127	15-8	15-10
	C20-15	---
H-130	15-5	15-7
	C17-9	---
H-133	16-8	---
	16-10	---
H-137, Ch. V-2102-1	C18-13	---
H-137A, Ch. V-2102-2	C18-13	---
H-137B, Ch. V-2102-3	17-1	17-4
H-137B, Ch. V-2102-5	17-4	17-8
H-138, Ch. V-2102-1	C18-13	---
H-138A, Ch. V-2102-2	C18-13	---
H-138B, Ch. V-2102-3	17-1	17-4
H-138B, Ch. V-2102-5	17-4	17-8
H-142	18-1	18-5
H-148	16-9	16-10
H-153, H-155, H-156	15-5	15-7
	C19-9	---
H-157	17-9	17-11
H-161, Ch. V-2118	18-6	18-11
H-163	18-1	18-5
H-164	18-12	18-19
	C19-9	---
	C20-15	---
H-165	17-12	17-14
	C19-9	---
H-166, H-166A, H-167	18-12	18-19
	C19-9	---
	C20-15	---
H-168, H-168A, H-168B, Ch. V-2118	18-6	18-11
H-169	19-1	19-11
H-171, H-171A, H-171C	15-5	15-7
	C19-9	---
H-172, H-175	18-1	18-5
H-178	19-12	19-14
H-182	18-20	18-22
H-183, H-183A	19-15	19-17
	C20-15	---

MODEL	FROM	THROUGH
WESTINGHOUSE ELECTRIC CORP. (Cont'd)		
H-184	15-5	15-7
	C19-9	---
H-185	18-23	18-25
	C19-9	---
H-186, H-187	18-26	18-30
	C19-8	---
	C20-15	---
H-188, Ch. V-2133	19-18	19-19
	C20-16	---
H-190, H-191, H-191A, Ch. V-2134	19-20	19-23
	C20-16	---
H-195	18-23	18-25
	C19-9	---
H-198, Ch. V-2137-2	20-1	20-4
H-199, Ch. V-2137-1	20-5	20-8
H-202, Ch. V-2128-2	19-24	19-28
	C20-16	---
H-203, Ch. V-2137	19-29	19-32
H-204, Ch. V-2128-2; H-204A, Ch. V-2128-4	19-24	19-28
	C20-16	---
H-210, H-211, Ch. V-2144, V-2144-1	19-33	19-35
	C20-16	---
H-212, Ch. V-2137	19-29	19-32
H-214, H-214A, Ch. V-2103-3	20-9	20-11
H-300T5, H-301T5, Ch. V-2148	20-15	20-17
H-302P5, Ch. V-2151-1	20-18	20-20
H-303P4, H-304P4, Ch. V-2153	20-12	20-14
V-2102-1, V-2102-2, Ch.	C18-13	---
V-2102-3, Ch.	17-1	17-4
V-2102-5, Ch.	17-4	17-8
V-2103-3, Ch.	20-9	20-11
V-2118, Ch.	18-6	18-11
V-2128-2, V-2128-4, Ch.	19-24	19-28
	C20-16	---
V-2133, Ch.	19-18	19-19
	C20-16	---
V-2134, Ch.	19-20	19-23
	C20-16	---
V-2137, Ch.	19-29	19-32
V-2137-1, Ch.	20-5	20-8
V-2137-2, Ch.	20-1	20-4
V-2144, V-2144-1, Ch.	19-33	19-35
	C20-16	---
V-2148, Ch.	20-15	20-17
V-2151-1, Ch.	20-18	20-20
V-2153, Ch.	20-12	20-14
WR-478	17-15	17-16
WILCOX-GAY CORP.		
6A10, 6A20	17-1	---
6B10, 6B20, 6B30, 6B40, 6B42	15-4	---
	C19-10	---
6B45B, 6B45M, 6B45W	17-2	---
7D42, 7D44	19-1,2	---
7E40, 7E44	19-3,4	19-7
8J10	18-1	18-2
	C19-9	C19-10

WILLY'S
See ZENITH RADIO CORP.

WOOLAROC
See PHILLIPS PETROLEUM CO.

MODEL	FROM	THROUGH
ZENITH RADIO CORP.		
Auto Permiability Tuner	20-1	20-11
DB47, Hudson	18-11	18-12
DB-48, Hudson	20-24	20-31
G500, Ch. 5G40	20-12	20-14
G510, Ch. 5G02	20-15	20-16
G511, Ch. 5G01	20-17	20-18
G615, Ch. 6G05	20-19	20-20
G660, G663, G665, Ch. 6G01	20-90	20-92
4C54, Ch.	16-1	16-3
4E41, Ch.	17-1	17-2
	C20-17	---
4F40, Ch.	20-21	20-23
4G800, Ch. 4E41	17-1	17-2
	C20-17	---
4G903, Ch. 4F40	20-21	20-23
4K040, 4K040G, Ch. 4C54	16-1	16-3
5C01, 5C02, 5C04, Ch.	15-8	15-9
	C17-10	---
	C20-16	---

ZENITH RADIO CORP. (Cont'd)

MODEL	FROM	THROUGH
5C40, 5C40Z, Ch.	16-4	---
	16-6	---
5C40ZZ, Ch.	16-5	16-6
5C50, Ch.	17-5	17-6
5C51, Ch.	17-3	17-4
5C80, Ch., Crosley	16-7	16-9
5D0 Series, Ch. 5C01, 5C02, 5C04	15-8	15-9
	C17-10	---
	C20-16	---
5D810, Ch. 5E02	18-1	18-2
5D811, Ch. 5F01	18-3	18-4
5E02, Ch.	18-1	18-2
5F01, Ch.	18-3	18-4
5G01, Ch.	20-17	20-18
5G02, Ch.	20-15	20-16
5G003, Ch. 5C40; 5G003Z, Ch. 5C40Z	16-4	---
	16-6	---
5G003ZZ, Ch. 5C40ZZ	16-5	16-6
5G036, Ch. 5C51	17-3	17-4
5G40, Ch.	20-12	20-14
5K037, Ch. 5C50	17-5	17-6
5MX080, Ch. 5C80, Crosley	16-7	16-9
5R0 Series, Ch. 5C01, 5C02, 5C04	15-8	15-9
	C17-10	---
	C20-16	---
6B16AT, 6B16BT, 6B16CT, Ch.	19-3	19-4
6C01, Ch.	15-26	---
	C20-18	---
6C05, Ch.	15-2	---
	15-28	15-29
	C20-16	---
6C06, Ch.	18-29	18-31,32
6C22Z, Ch.	17-12	---
	17-14	17-15
6C22ZZ, Ch.	17-13	17-15
6C40, Ch.	15-30	15-31
	C17-8	---
	C20-18	---
6C41, Ch.	16-10	16-12
6C50, Ch.	16-13	16-15
6C83, Ch., Willy's	16-16	16-19
6D0 Series	15-2	---
	15-26	---
	15-28	15-29
	C17-10	---
	C20-16	---
	C20-18	---
6D815, Ch. 6E05	18-5	18-6
6E02, Ch.	17-16	17-17
	18-19	18-20
	C19-10	---
6E02Z, Ch.	17-16	17-17
	C20-18	---
6E03, Ch.	18-16	18-18
6E05, Ch.	18-5	18-6
6E40, Ch.	18-7,8	18-10
	C20-17	---
6E89, Ch.	20-24	20-31
6G01, Ch.	20-90	20-92
6G001, 6G001YX, Ch. 6C40	15-30	15-31
	C17-8	---
	C20-18	---
6G004Y, Ch. 6C41	16-10	16-12
6G05, Ch.	20-19	19-20
6G038, Ch. 6C50	16-13	16-15
6G801, Ch. 6E40	18-7,8	18-10
	C20-17	---
6MF780, Ford	17-7	17-9
6MH089, DB47, Hudson	18-11	18-12
6MH889, Ch. 6E89, DB-48, Hudson	20-24	20-31
6MN088, 6MN788, Nash	17-10	17-11
6MN788E, Nash	19-1	19-2
6MN790, Mercury	18-13	18-15

MODEL	FROM	THROUGH
6MN988, Nash	20-32	20-38
6MW083, Ch. 6C83, Willy's	16-16	16-19
6R087Z, Ch. 6C22Z	17-12	---
	17-14	17-15
6R087ZZ, Ch. 6C22ZZ	17-13	17-15
6R880, Ch. 6E03	18-16	18-18
6R886, Ch. 6E02	17-16	17-17
	18-19	18-20
	C19-10	---
6R886Z, Ch. 6E02Z	17-16	17-17
	C20-18	---
6S624BT, Ch. 6B16BT	19-3	19-4
6S624CT, Ch. 6B16CT	19-3	19-4
6S643AT, Ch. 6B16AT	19-3	19-4
6S643BT, Ch. 6B16BT	19-3	19-4
6S643CT, Ch. 6B16CT	19-3	19-4
6S659AT, Ch. 6B16AT	19-3	19-4
6S659BT, Ch. 6B16BT	19-3	19-4
7E01, Ch.	19-5,6	19-12
7E02, Ch.	18-21,22	18-25
7E22, Ch.	18-33,34	18-36
	C19-10	---
7F01, Ch.	20-43	20-46
7F02, Ch.	20-55	20-58
7F03, Ch.	20-39	20-42
7F04, Ch.	20-47	20-50
7F04Z, Ch.	20-51	20-54
7H820, Ch. 7E01	19-5,6	19-12
7H822, Ch. 7E02	18-21,22	18-25
7H918, Ch. 7F03	20-39	20-42
7H920, Ch. 7F01	20-43	20-46
7H921, Ch. 7F04	20-47	20-50
7H921Z, Ch. 7F04Z	20-51	20-54
7H922, Ch. 7F02	20-55	20-58
7ML780, Lincoln	18-26	18-28
7ML780E, Lincoln	19-13	19-25
7ML781, Lincoln- Continental	18-26	18-28
7R070, Ch. 6C06	18-29	18-31,32
7R887, Ch. 7E22	18-33,34	18-36
	C19-10	---
8B03, Ch., Lincoln-Zephyr	16-20	16-24
8C01, Ch.	15-71	15-74
	C17-10	---
	C20-17	---
8C40, Ch.	15-63	15-70
	C20-18	---
8E20, Ch.	19-16	19-21
8E82, Ch., Lincoln	20-74	20-81
8E90, Ch., Lincoln-Mercury	20-82	20-89
8G005, 8G005YX, Ch. 8C40	15-63	15-70
	C20-18	---
8H023, 8H034, Ch. 8C01	15-71	15-74
	C17-10	---
	C20-17	---
8H832, Ch. 8E20	19-16	19-21
8H861, Ch. 8E20	19-16	19-21
8MF880, Ford	20-59	20-66
8MF881, Ford	20-67	20-73
8MF980, Ford	20-59	20-66
8ML692, Ch. 8B03, Lincoln-Zephyr	16-20	16-24
8ML882, 8ML882Z, Ch. 8E82, Lincoln	20-74	20-81
8ML982, 8ML982Z, Ch. 8E82, Lincoln	20-74	20-81
8MM890, Ch. 8E90, Lincoln-Mercury	20-82	20-89
8MM990, Ch. 8E90, Lincoln-Mercury	20-82	20-89
9E21, Ch.	19-22	19-29,30
	C20-18	---
9F22, Ch.	19-31,32	19-35
9H881, 9H882R, 9H885, 9H888R, Ch. 9E21	19-22	19-29,30
	C20-18	---
9H984, 9H984LP, Ch. 9F22	19-31,32	19-35
11C21Z, Ch.	C18-13	---
12H090, 12H091, 12H092, 12H093, 12H094, Ch. 11C21Z	C18-13	---
13D22, Ch.	19-36	19-46
14H789, Ch. 13D22	19-36	19-46

RECORD CHANGERS

ADMIRAL CORP.

RC-161	RCD.CH.17-1	RCD.CH.17-6
RC-161A	RCD.CH.17-7	---
RC-170, RC-170A	RCD.CH.16-1	RCD.CH.16-7
RC-180, RC-181	RCD.CH.18-1	RCD.CH.18-9
RC-182	RCD.CH.18-10	RCD.CH.18-12
RC-195, RC-196, RRC-197	RCD.CH.20-1	RCD.CH.20-8
RC-200	RCD.CH.17-8	RCD.CH.17-13

ADMIRAL CORP. (Cont'd)

RC-210, RC-211. RC-212	RCD.CH.20-1	RCD.CH.20-8
RC-221, RC-222	RCD.CH.20-9	RCD.CH.20-20
RC-400	RCD.CH.20-21	RCD.CH.20-29

AERO-METAL PRODUCTS

46-A	RCD.CH.16-1	RCD.CH.16-4

CAPEHART WIRECORDER

MODEL	FROM	THROUGH
CAPEHART-FARNSWORTH CORP. Also See FARNSWORTH TELEV. & RADIO CORP.		
P-43	RCD.CH.20-1	RCD.CH.20-15
P-77	RCD.CH.20-16	RCD.CH.20-19
P-777	RCD.CH.20-16	RCD.CH.20-24
41-E2	RCD.CH.20-5	RCD.CH.20-32
CRESCENT INDUSTRIES, INC.		
C-200	RCD.CH.17-1	RCD.CH.17-6
C-250	RCD.CH.18-1	RCD.CH.18-6
EMERSON RADIO & PHONOGRAPH CORP.		
819003	RCD.CH.17-1	RCD.CH.17-4
FARNSWORTH TELEV. & RADIO CORP. (CAPEHART)		
P51	RCD.CH.17-1	RCD.CH.17-6
	C17-2	---
P52	C17-2	---
P56, P56MP	RCD.CH.17-1	RCD.CH.17-16
	C17-2	---
P57	C17-2	---
P62	RCD.CH.18-10	RCD.CH.18-24
P71, Capehart	RCD.CH.19-1	RCD.CH.19-10
	C20-3	---
P72, P73	RCD.CH.18-1	RCD.CH.18-9
	C20-3	---
16-E, Capehart	RCD.CH.19-11	RCD.CH.19-44
41-E, Capehart	RCD.CH.18-25	RCD.CH.18-46
	C20-13	---
GARRARD SALES CORP.		
65	RCD.CH.19-1	RCD.CH.19-5
70	RCD.CH.19-6	RCD.CH.19-9
GENERAL ELECTRIC CO.		
P1	RCD.CH.18-1	RCD.CH.18-3
P2	RCD.CH.19-1	RCD.CH.19-4
P3	RCD.CH.17-1	RCD.CH.17-4
P4	RCD.CH.17-5	RCD.CH.17-9
	C19-1	---
P8	RCD.CH.20-1	RCD.CH.20-5
P10	RCD.CH.20-6	RCD.CH.20-10
P11	RCD.CH.20-11	RCD.CH.20-12
THE GENERAL INDUSTRIES CO.		
RC130, RC130L	RCD.CH.17-1	RCD.CH.17-9
GENERAL INSTRUMENT CORP.		
700F, 700R	RCD.CH.19-1,2	RCD.CH.19-9
INTERNATIONAL DETROLA CORP.		
650	RCD.CH.17-1	RCD.CH.17-13
7000	RCD.CH.17-14	RCD.CH.17-15
LEAR, INC.		
PC-206A	RCD.CH.17-1	RCD.CH.17-6
MILWAUKEE STAMPING CO.		
11200	RCD.CH.20-1	RCD.CH.20-14
MOTOROLA INC.		
B-27-RC, B-28-RC, B-29-RC, B-31-RC, B-32-RC, B-33-RC, WR6, WR7, WR8,	RCD.CH.18-1	RCD.CH.18-28
Ch. HS-18	RCD.CH.18-28	---
HS-18, Ch.	RCD.CH.18-28	---
RC-30-A, RC-34, RC-35	RCD.CH.19-1	RCD.CH.19-10
OAK MFG. CO.		
9000	RCD.CH.20-1	RCD.CH.20-10
PHILCO CORP.		
D-10, D-10A	RCD.CH.18-1	RCD.CH.18-13
M-4	RCD.CH.18-14	RCD.CH.18-31
M-7	RCD.CH.18-32	RCD.CH.18-45
M-8	RCD.CH.19-1	RCD.CH.19-17
M-9	RCD.CH.19-18	RCD.CH.19-34
M-9C	RCD.CH.19-35	RCD.CH.19-54

MODEL	FROM	THROUGH
PHILCO CORP. (Cont'd)		
M-12C	RCD.CH.19-55	RCD.CH.19-74
M-15	RCD.CH.19-75	RCD.CH.19-82
M-20	RCD.CH.20-1	RCD.CH.20-16
RADIO CORP. OF AMERICA		
RP-168, Series	RCD.CH.19-1	RCD.CH.19-8
RP-176	RCD.CH.17-1	RCD.CH.17-12
	C20-7	---
	C20-8	---
RP-177, RP-177A, RP-177B	RCD.CH.18-1	RCD.CH.18-13
	C20-8	---
RP-178, RP-178-2, RP-178-3	RCD.CH.18-14	RCD.CH.18-23
	C20-7	---
RS-132, Ch.	RCD.CH.19-9	RCD.CH.19-10
9EY3, Ch. RS-132	RCD.CH.19-9	RCD.CH.19-10
9JY	RCD.CH.19-11	RCD.CH.19-12
960001-1, 960001-2, 960001-3	C17-5	---
960001-4, 960001-5, 960001-6	C18-11	---
960015	C17-5	---
	C18-10	---
960276	RCD.CH.19-13	RCD.CH.19-22
RUSSELL ELECTRIC CO.		
C-9	RCD.CH.17-1	RCD.CH.17-6
C-10, C-10M	RCD.CH.18-1	RCD.CH.18-3
SEARS, ROEBUCK & CO.		
101.204	RCD.CH.18-1	RCD.CH.18-5
101.206	RCD.CH.18-6	RCD.CH.18-9
101.211, 101.211-1, 101.211-2, 101.211-3, 101.211-4	RCD.CH.19-1	RCD.CH.19-14
J.P. SEEBURG CORP.		
M	RCD.CH.17-1	RCD.CH.17-28
STEWART-WARNER CORP.		
A-505650	RCD.CH.18-1	RCD.CH.18-10
VM-504932, VM-504992	RCD.CH.17-4	RCD.CH.17-10
VM-505049	RCD.CH.17-11	RCD.CH.17-13
VM-505339	RCD.CH.17-14	RCD.CH.17-19
VM-506261	C18-11	---
W-504138	RCD.CH.17-1	RCD.CH.17-3
TRAV-LER RADIO CORP.		
A	RCD.CH.20-1	RCD.CH.20-9
V-M CORP.		
800	RCD.CH.17-1	RCD.CH.17-4
WEBSTER CHICAGO CORP.		
70	RCD.CH.17-1	RCD.CH.17-9
133-6, 146	RCD.CH.20-1	RCD.CH.20-11
148	RCD.CH.18-1	RCD.CH.18-11
156	RCD.CH.19-1	RCD.CH.19-11
160, 161, 164	RCD.CH.20-1	RCD.CH.20-11
246	RCD.CH.20-12	RCD.CH.20-24
256, 256-1	RCD.CH.20-25	RCD.CH.20-37
WILCOX-GAY CORP.		
6B40B, 6B40M, 6B42M, 6B42W	RCD.CH.17-1	RCD.CH.17-6
6B45B, 6B45W	RCD.CH.17-7	RCD.CH.17-12
7E40, 7E44	RCD.CH.19-1	RCD.CH.19-2
ZENITH RADIO CORP.		
S-11468	RCD.CH.15-1	RCD.CH.15-9
	C20-16	---
S-13200	RCD.CH.15-1	RCD.CH.15-8
	C19-10	---
S-13675	RCD.CH.19-1	RCD-CH.19-17
S-14002	RCD.CH.19-1	RCD.CH.19-17
S-14004	RCD.CH.18-1	RCD.CH.18-6
S-14006	RCD.CH.19-1	RCD.CH.19-17
S-14007	RCD.CH.18-1	RCD.CH.18-6
S-14008	RCD.CH.19-1	RCD.CH.19-17

WIRE RECORDERS

MODEL	FROM	THROUGH
MAJESTIC RADIO & TELEVISION CORP.		
7B04A, Ch.	WIREC.17-1	WIREC.17-4
7YR752, Ch. 7B04A	WIREC.17-1	WIREC.17-4
WEBSTER CHICAGO CORP.		
79	WIREC.17-1	WIREC.17-10
WIRECORDER CORP.		
A-1	WIREC.17-1	WIREC.17-8
PA	WIREC.17-9	WIREC.17-14

ADV Plans, LLC