FOREWORD

The circuit diagrams in the following section have been selected to represent satisfactory commercial practice in the application of receiving tube types. None of the circuits represent an actual commercial piece of equipment but rather a composite of several designs of a particular class. This has been necessary in order to illustrate in one diagram many different circuit possibilities which may not necessarily be economical in one commercial model. It is therefore quite feasible to utilize portions of several circuits to arrive at a design for a particular service.

Wherever possible, actual circuit values are shown with the exception of parallel coil and condenser combinations which should be chosen from commercial components for the frequencies desired. While values of resistances, capacitances, and voltages are furnished, it is most important that reference be made to the individual tube rating sheets to ascertain that maximum and minimum ratings are not exceeded when attempting to combine several of these circuits.

The scope of the diagrams included represents the most popular circuit applications. As a result, a strict adherence to the current "preferred tube types" list has been made wherever possible. In several instances two tube type designations are shown since comparable performance can be expected when interchanging the indicated types.

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PLATE
1730
SEPT. 2
1946

4 TUBE PORTABLE SUPERHETERODYNE RECEIVER

TYPICAL CIRCUIT

TUNG-SOL

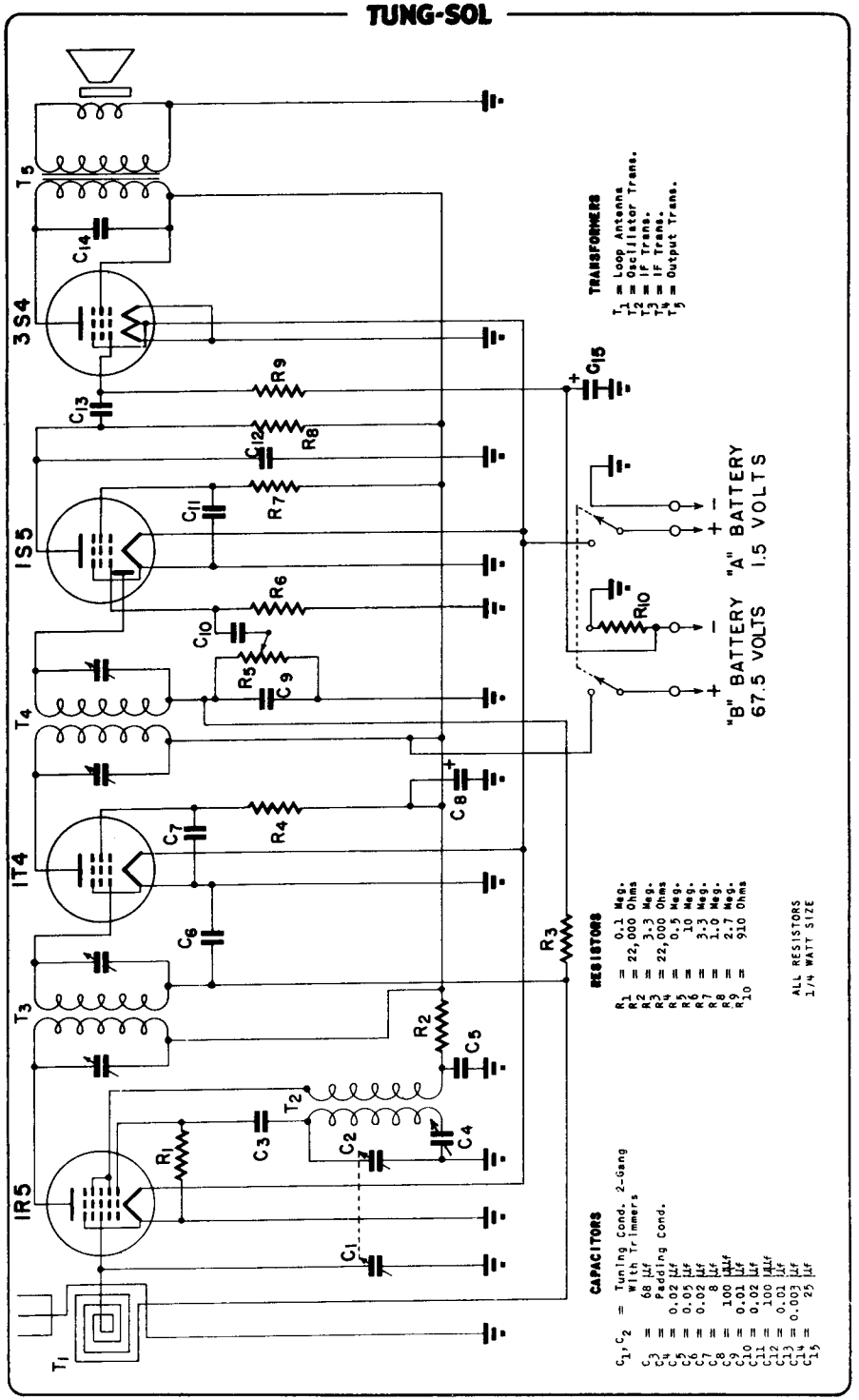

PLATE 1731
SEPT. 2 1946

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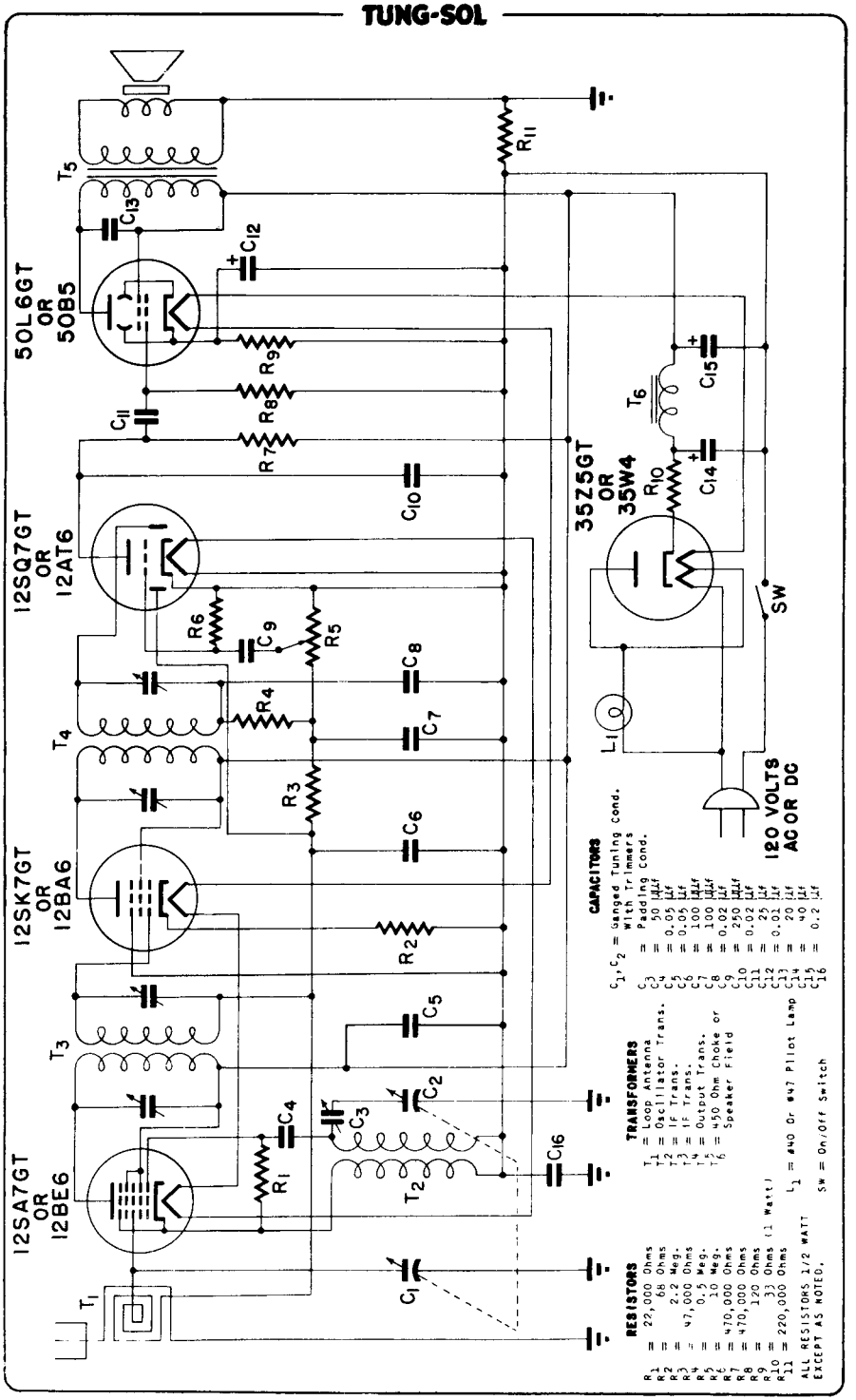
 ELECTRONIC TUBE DIVISION NEWARK, NEW JERSEY, U.S.A.

5 TUBE AC/DC SUPERHETERODYNE RECEIVER

TYPICAL CIRCUIT

TUNG-SOL



RESISTORS

R1 = 22,000 Ohms
R2 = 68 Ohms
R3 = 2.2 Meg.
R4 = 47,000 Ohms
R5 = 0.5 Meg.
R6 = 2.0 Meg.
R7 = 470,000 Ohms
R8 = 470,000 Ohms
R9 = 120 Ohms
R10 = 33 Ohms (1 Watt)
R11 = 220,000 Ohms

ALL RESISTORS 1/2 WATT EXCEPT AS NOTED.

TRANSFORMERS

T1 = Loop Antenna
T2 = Oscillator Trans.
T3 = IF Trans.
T4 = IF Trans.
T5 = Output Trans.
T6 = 450 Ohm Choke or Speaker Field

L1 = #40 Or #47 Pilot Lamp

SW = On/Off Switch

CAPACITORS

C1, C2 = Ganged Tuning Cond. With Trimmers
C3 = Padding Cond.
C4 = 50 Mmf
C5 = 0.05 Mf
C6 = 0.05 Mf
C7 = 100 Mmf
C8 = 100 Mmf
C9 = 0.02 Mf
C10 = 250 Mmf
C11 = 0.02 Mf
C12 = 25 Mf
C13 = 0.01 Mf
C14 = 20 Mf
C15 = 40 Mf
C16 = 0.2 Mf

PLATE 1732
SEPT. 2 1946

6 TUBE AC/DC BATTERY PORTABLE RECEIVER

TYPICAL CIRCUIT

TUNG-SOL

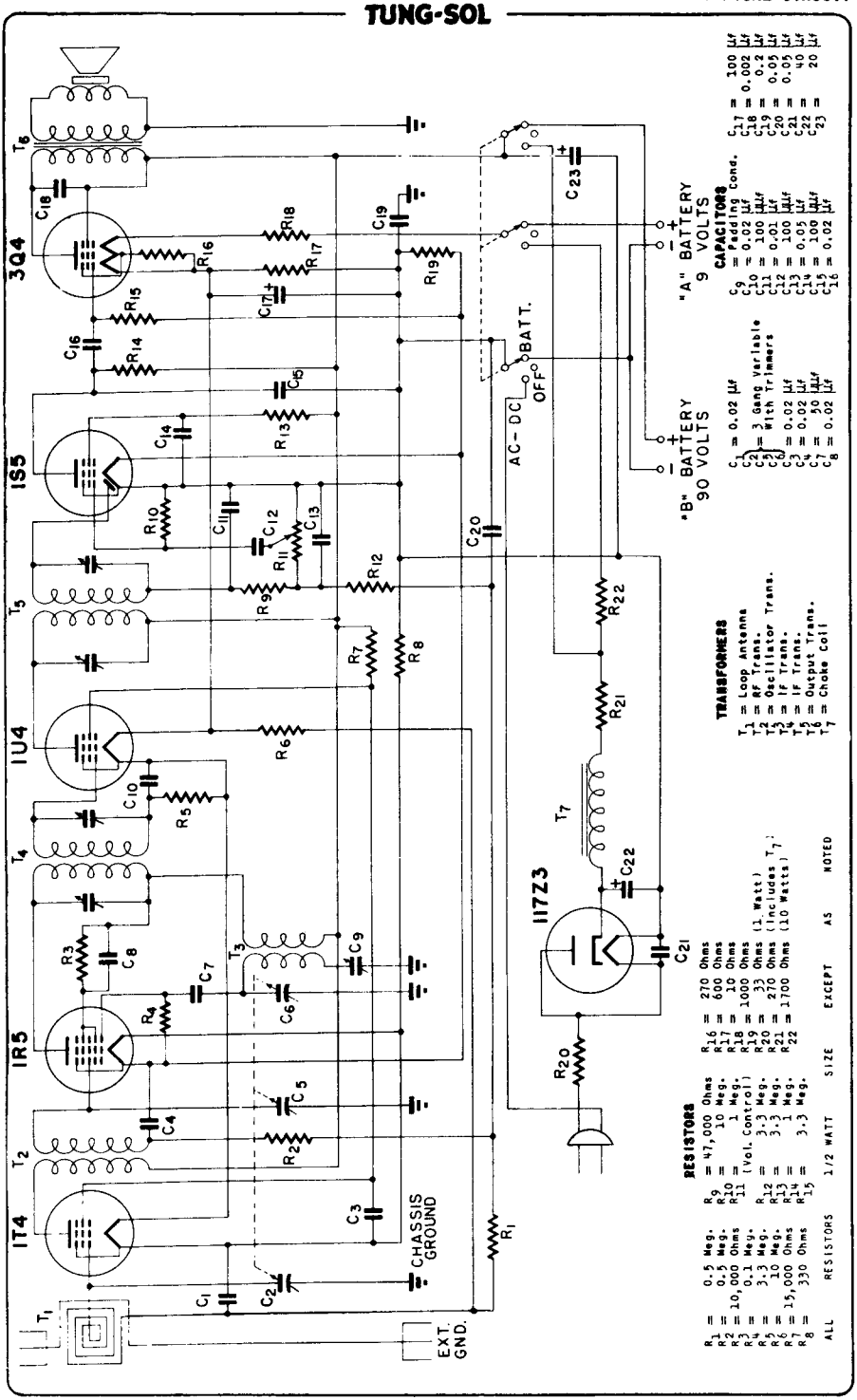


PLATE 1733
SEPT. 2 1946

PRINTED IN U.S.A.

6 TUBE AUTOMOBILE RECEIVER

TYPICAL CIRCUIT

TUNG-SOL

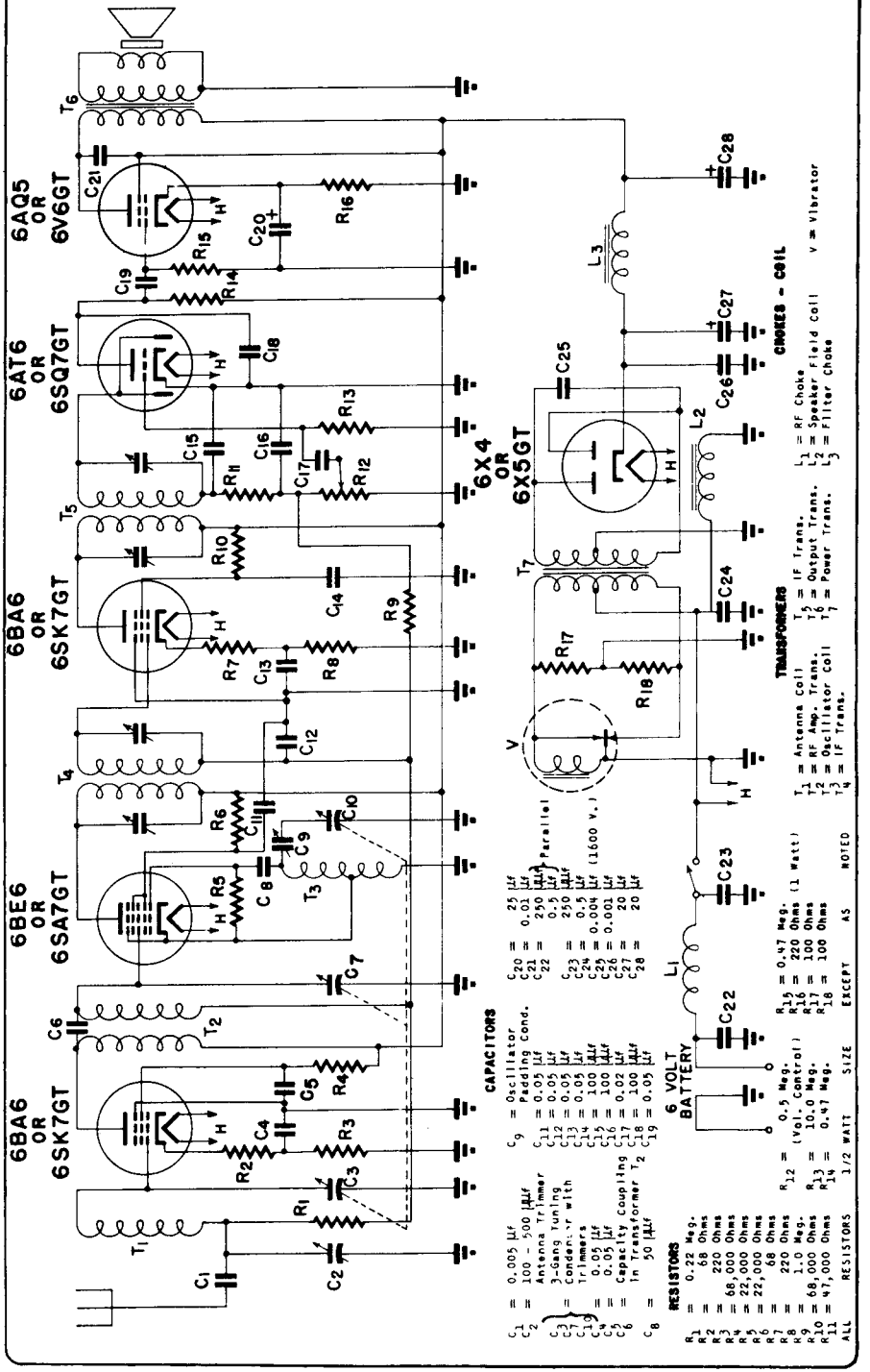


PLATE 1734
SEPT. 2 1946

10 TUBE AC SUPERHETERODYNE RECEIVER

TYPICAL CIRCUIT

TUNG-SOL

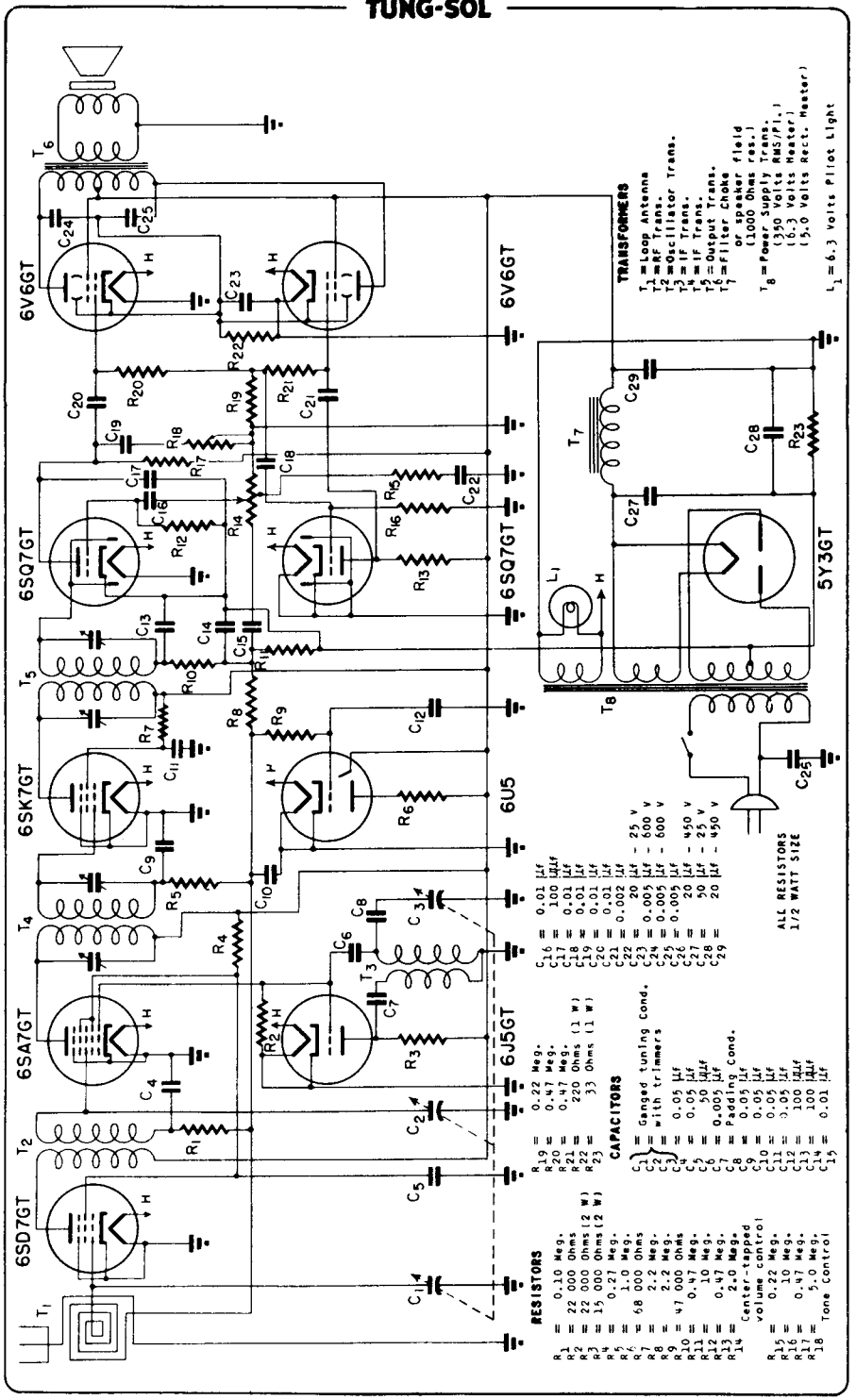


PLATE 1839
JULY 1, 1947

FREQUENCY MODULATION TUNER

TYPICAL CIRCUIT

TUNG-SOL

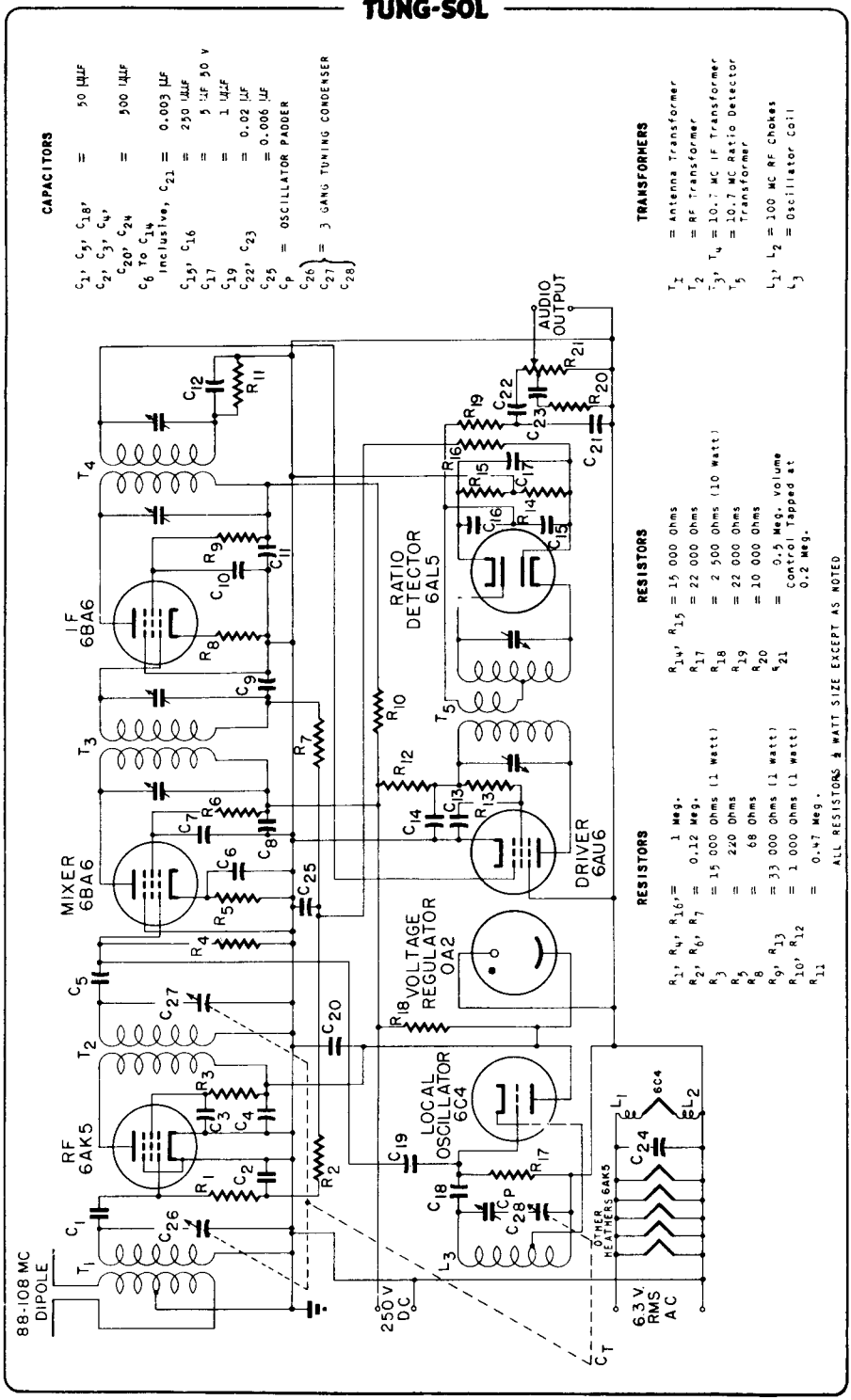


PLATE 2096

OCT. 1, 1948