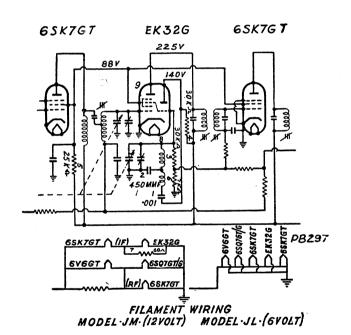
#### MODEL JL — SUBSTITUTE RECTIFIER VALVE

Model JL; rectifier socket is wired so that either an OZ4G or a 6X5GT valve may be used without any changes being made to the socket wiring. Different size valve shields are required for each type of valve.

	024G	6X5GT
Valve Shield	39/30C	PM468
Valve Shield Earth Lug	22/30C	22/30C
Valve Shield Ring	<u>-</u>	248/30C

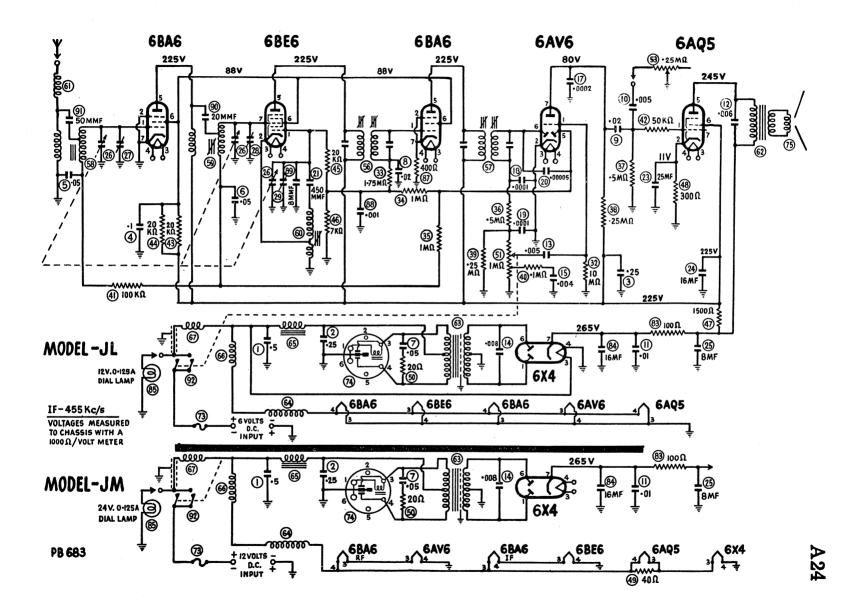
#### SUBSTITUTE CONVERTER VALVE

The first production run of 6 volt Model - JL and 12 volt Model - JM have been modified to use an EK32G valve in place of the 6SA7GT/G valve. The circuit alterations and component parts shown below for the EK32G are identical for both models except that for the 12 volt Model JM a 60 ohm 1 watt resistor is wired in parallel with the EK32G filament. All other circuit components and details are the same as shown by the circuit on page 4.



Circuit No. Part Name. Tol. ± Rating. Part No. .001 MF Mica Condenser 10% 1000 VT PC108 1. .00045 MF Mica Condenser 1000 VT PC692 or PC727 21/2% 2. 3. 30,000 ohm Carbon Resistor 10% 1/2 Watt PR151 PR151 30,000 ohm Carbon Resistor ½ Watt 10% 4. 1 Watt PR116 5. 25,000 ohm Carbon Resistor 10% 7,000 ohm Carbon Resistor 10% 1/2 Watt PR247 6. PR627 60 ohm wire wound resistor 10% 1 Watt 7. Oscillator Coil Valve type EK32G PT793 or PT860 8. Terminal strip (single lug) Terminal strip (double lug) A107/30C A103/509 873/495 Small Grid Clip

Note: Oscl. coil PT793 or PT860 connections are the same as PT792.



# — MODELS "JL" AND "JM" —

## 6-VALVE SUPERHETERODYNE CAR RADIO RECEIVERS

For operation from:

Model ''JL'' 6-volt Accumulator Model ''JM'' 12-volt Accumulator

Tuning Range: 535-1610 Kilocycles

560.7-186.3 Metres

Battery Consumption: Model ''JL'' 6 Amps. does not include dial lamp. Model ''JM'' 3.25 Amps.

This Bulletin Contains:

1. General Description.

2. Alignment Procedure.

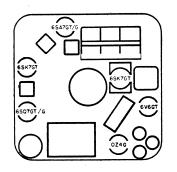
3. Circuit Diagram.

4. Electrical and Mechanical Parts List.

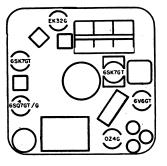
5. Connections for Transformers.

Vibrator: 150 Cycle Non-synch. Power Output: 5 Watts maximum.

3 Watts undistorted.



VALVE PLACEMENT DIAGRAM-JL/JM 283 / 279

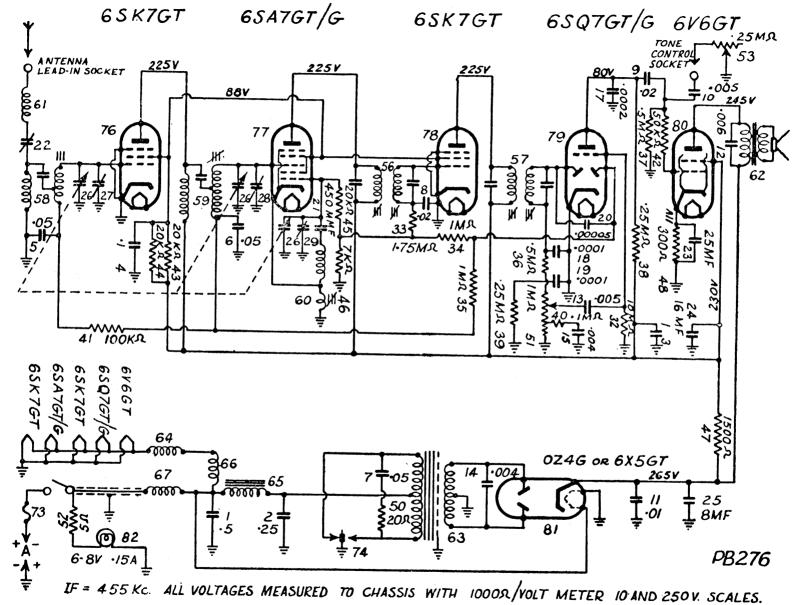


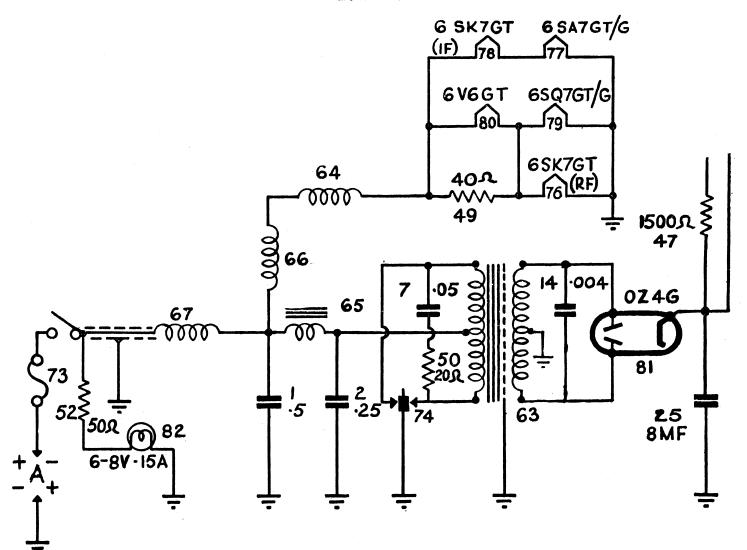
VALVE PLACEMENT DIAGRAM-JL/JM 301 / 279



VALVE PLACEMENT DIAGRAM \*JL.JM 549/279







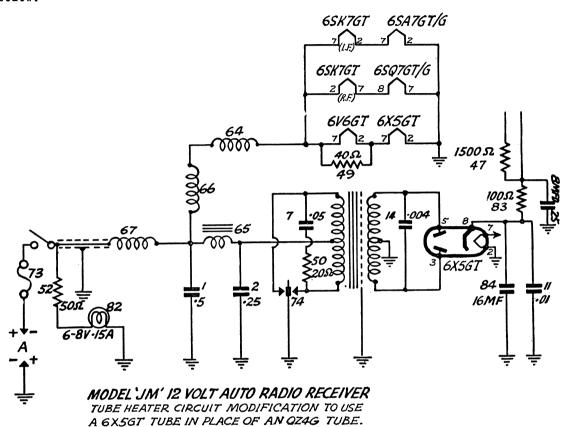
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## MODEL JM: SUBSTITUTE RECTIFIER VALVE

Future production of 12 volt Model ''JM'' receivers will use a 6X5GT rectifier valve in place of the OZ4G rectifier valve.

Due to import restrictions, type OZ4G rectifiers are not procurable.

When substituting a 6X5GT for an OZ4G on previous production of this model, a modification to the filament wiring is required as shown by the circuit diagram below.



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# MODEL JM: SUBSTITUTE VALVE FOR TYPE 6SK7GT VALVES

Model ''JM'' receivers, the serial numbers of which are between 5857 and 6456, will use a type 6BA6 valve in place of the type 6SK7GT valve in the RF stage and a type 6K7GT valve in place of the 6SK7GT valve in the IF. stage. The substitute valves are being used due to type 6SK7GT valves being in short supply.

6K7GT: A 1/4" dia. hole is drilled in the chassis 3/8" from the socket and between the screen and suppressor grid contacts. This hole is for the control grid lead on top of the valve and is in rubber covered flex part No. WM50 (6" required) grid clip part No. 873/495, grommet for grid lead hole 385/30C. The circuit is not changed only the wiring to the socket contacts as below:—

	6SK7GT.	6K7GT.
Pin No. 1. Pin No. 2. Pin No. 3. Pin No. 4. Pin No. 5. Pin No. 6.	No connection. Heater. Suppressor grid. Control grid. Cathode. Screen grid.	Earthed to chassis. Heater. Plate. Screen grid. Suppressor grid. No connection. Heater.
Pin No. 7.	Heater.	
Pin No. 8.	Plate.	Cathode.