

AUTO RADIO SERVICE BULLETIN.

SUBJECT: ASTOR SIX TUBE AUTO RADIO RECEIVER SERVICE DATA.

Models:	6406 (6 volt)	12406 (12 volt)
Chassis Type:	"AL"	"AM"
Part Nos.:	4013	4014

The performance of these two receivers is substantially the same, and they differ only in minor arrangements of circuiting as shown in top and bottom views of sets, circuit diagrams and parts lists.

Alignment Procedure:

All padding adjustments are carefully made at the factory, and ordinarily no readjustments are necessary. However, when readjustments are required, the procedure given below must be followed in detail..

EQUIPMENT:

Fully charged heavy duty storage battery, dummy antenna (PM157), aligning tool (PM158), 1/8" flat spanner (PM254), and a dummy antenna adaptor (PM255).

GENERAL:

The output meter must be connected between the plate and screen of the 6V6 output tube.

With the receiver and signal generator set up for operation on the prescribed frequency, turn the volume control on full and set the signal generator attenuator so that a half scale reading is obtained on the output meter. The signal in the speaker should be audible but not loud. When aligning at broadcast frequencies use the dummy antenna adaptor (PM255) and unscrew the synchro tuning padder to its minimum before adjusting the gang trimmers.

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OPER.	----SIGNAL GENERATOR-- FREQ.	CONNECTION	DUMMY CAPACITY	INSTRUC- TIONS	ADJUST PADDER
1.	173Kc	To grid of 6A8	.01 mfd Cond. in series with generator lead	Short out oscillator section of gang.	91 92
2.	181Kc	To grid of 6A8	As above	As above	90
3.	165Kc	To grid of 6A8	As above	As above	89
4.	1550Kc	To antenna socket	40μuf (Note 1)	Turn gang plates fully out of mesh.	32
5.	1400Kc	To antenna socket	40μuf (Note 1)	Set gang at 1400Kc	94 95

Note 1. The dummy antenna (PM157) consists of a 55 mfd. leadin and a 40 mmfd. antenna capacity, fitted with the dummy antenna adaptor (PM255). The lead from the dummy antenna adaptor is connected to the top right hand lug of the synchro tuning padder during alignment.

Note 2. Alignment of the receiver can be effected without removing the chassis from the can by using the 1/8" flat spanner (PM254) for the RF and aerial gang trimmer adjustment.

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DESIGN DEPT.

ISSUED BY ENGINEER  
J.P.S.

11 - 21 STURT STREET, SOUTH MELBOURNE

AUTO RADIO SERVICE BULLETIN.

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SUBJECT: ASTOR SIX TUBE AUTO RADIO RECEIVER SERVICE DATA.  
REMOVAL OF AERIAL FILTER CAN.

Models:	6406 (6 volt)	12406 (12 volt)
Chassis type:	"AL"	"AM"
Part Nos.:	4013	4014

The aerial filter can is located on top of the chassis at the end of the gang condenser beneath the drive gears. (See Circuit No.107.)

Should it be necessary to remove this filter can, the following procedure should be observed.

Remove the solder from the lugs holding the unit to the chassis, straighten the lugs, unsolder the connection to the synchr b padder and the earth braid from the can.

Next, remove the self tapping screws holding the gang platform to the chassis and gently raise the platform approximately 1/4". This will allow sufficient space under the gears to lift the filter can up and out.

Do not remove the condenser drive gears, as these are very difficult to adjust without the necessary jigs and apparatus.

DESIGN DEPARTMENT

ISSUED BY ENGINEER  
J.P.S.

Type AL

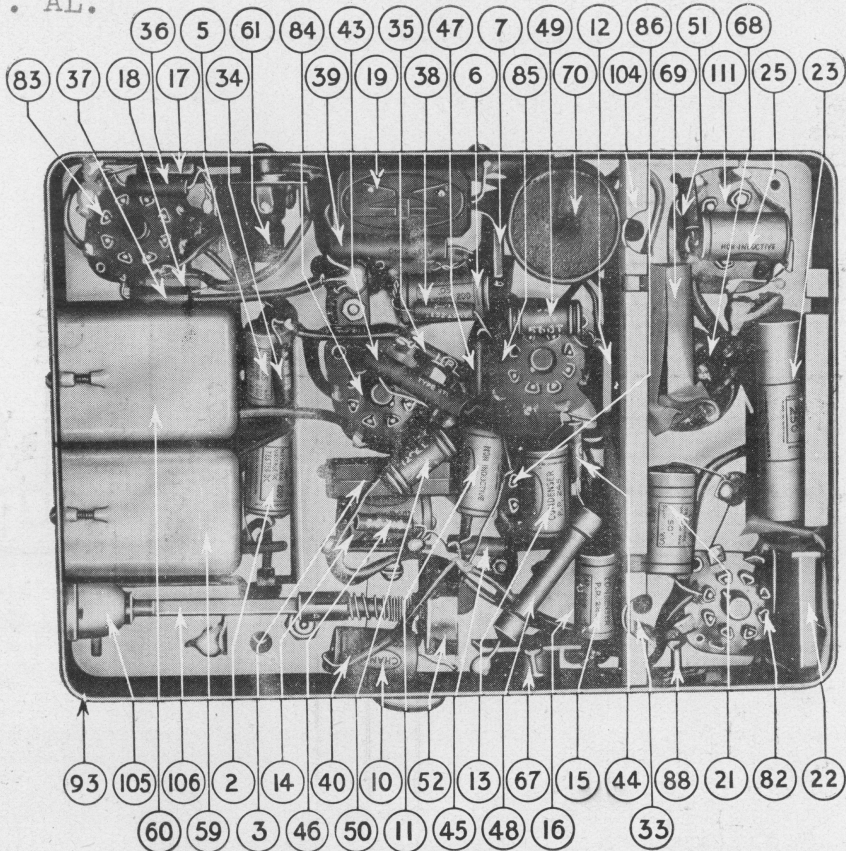
Model 6406

6 volt

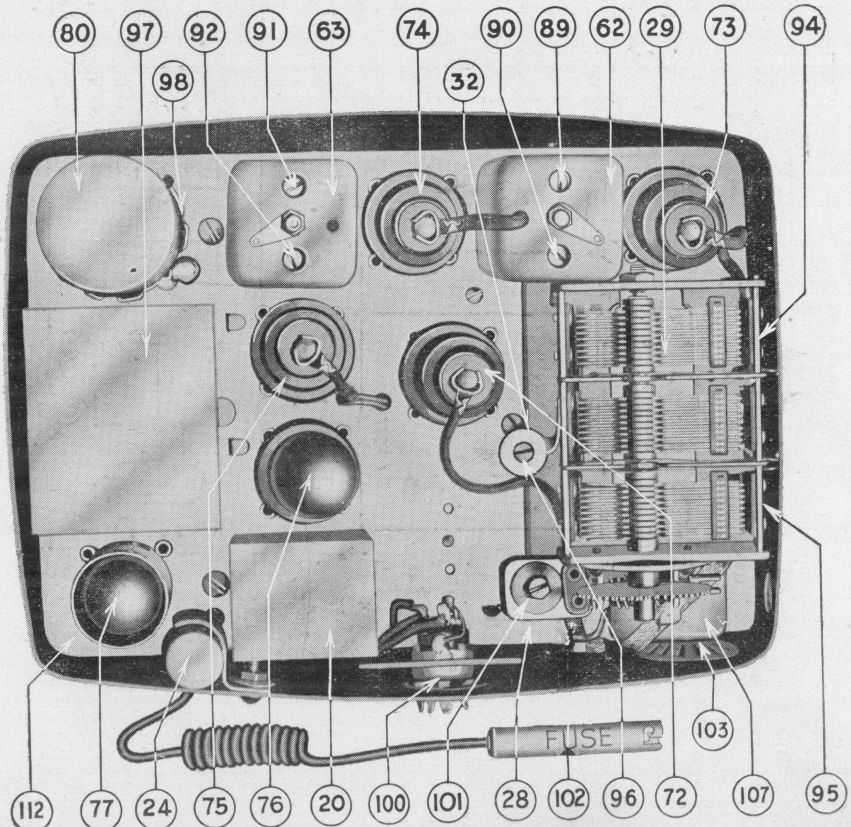
Two Unit

6V. AL.

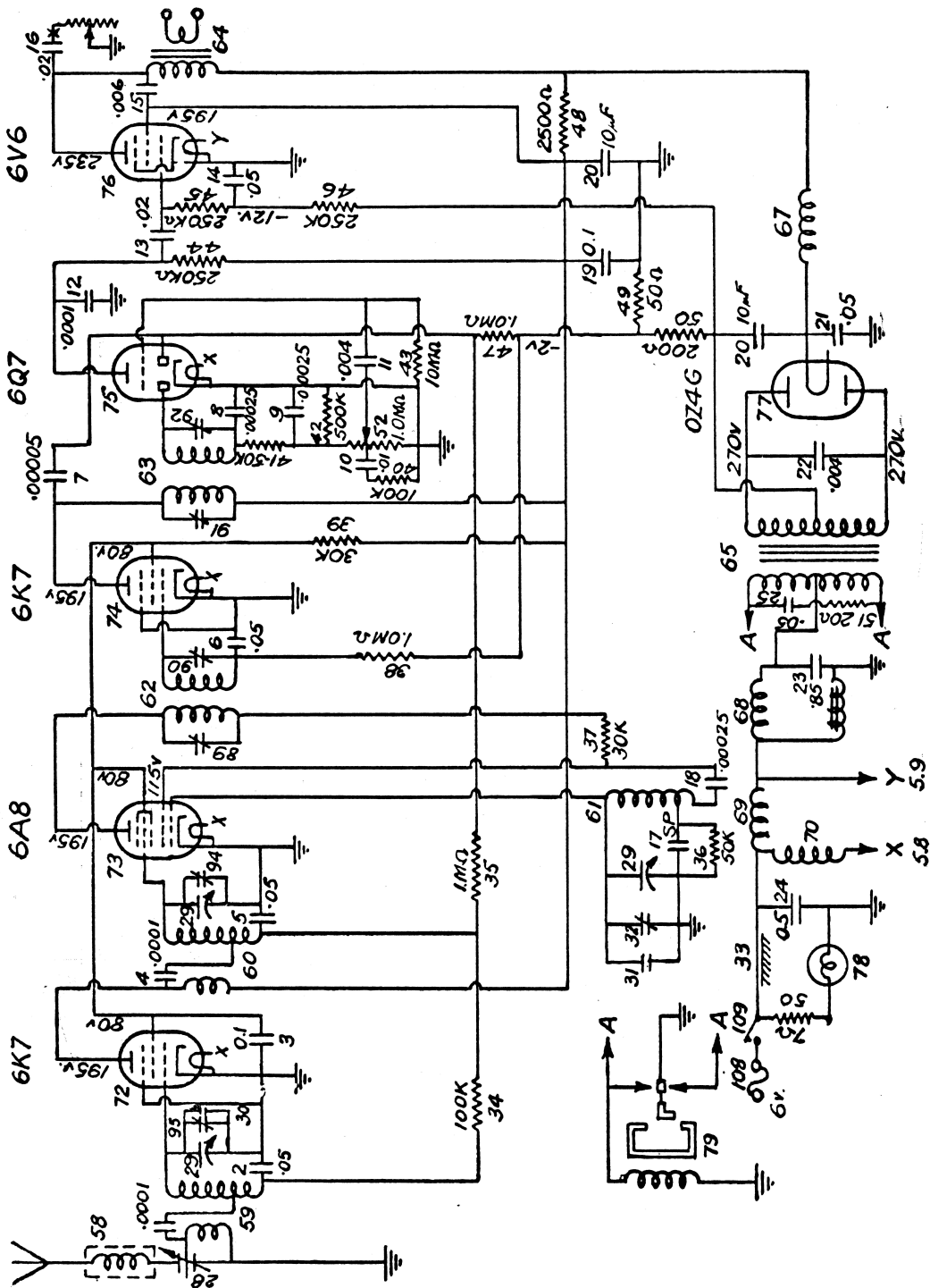
Bottom View



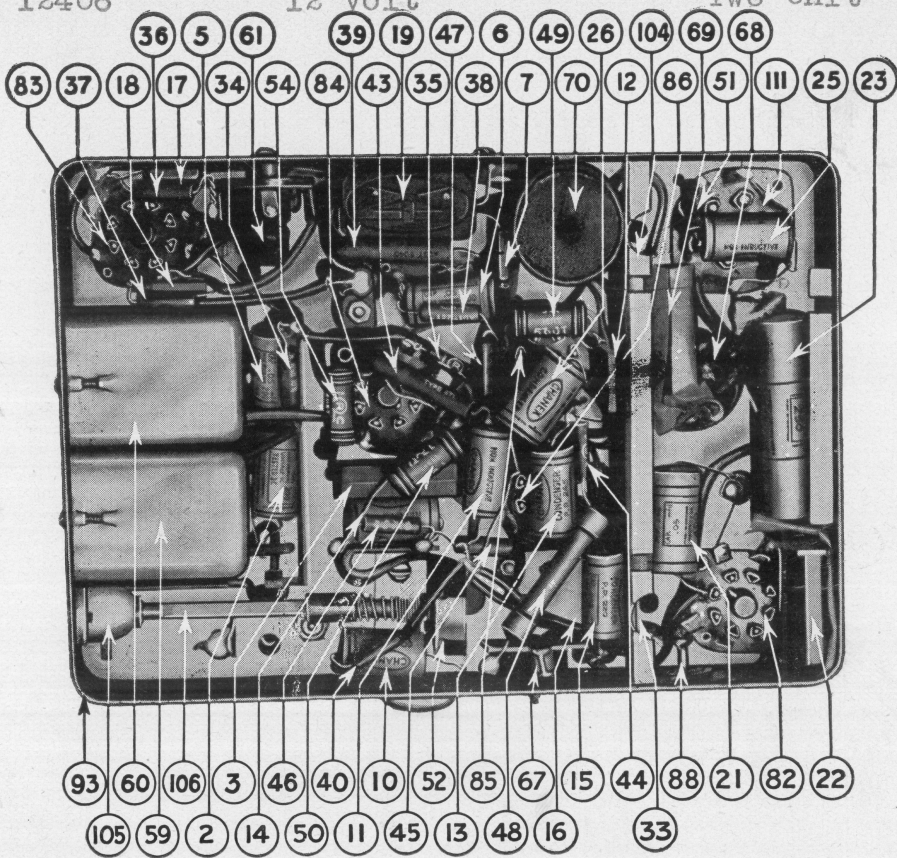
Top View



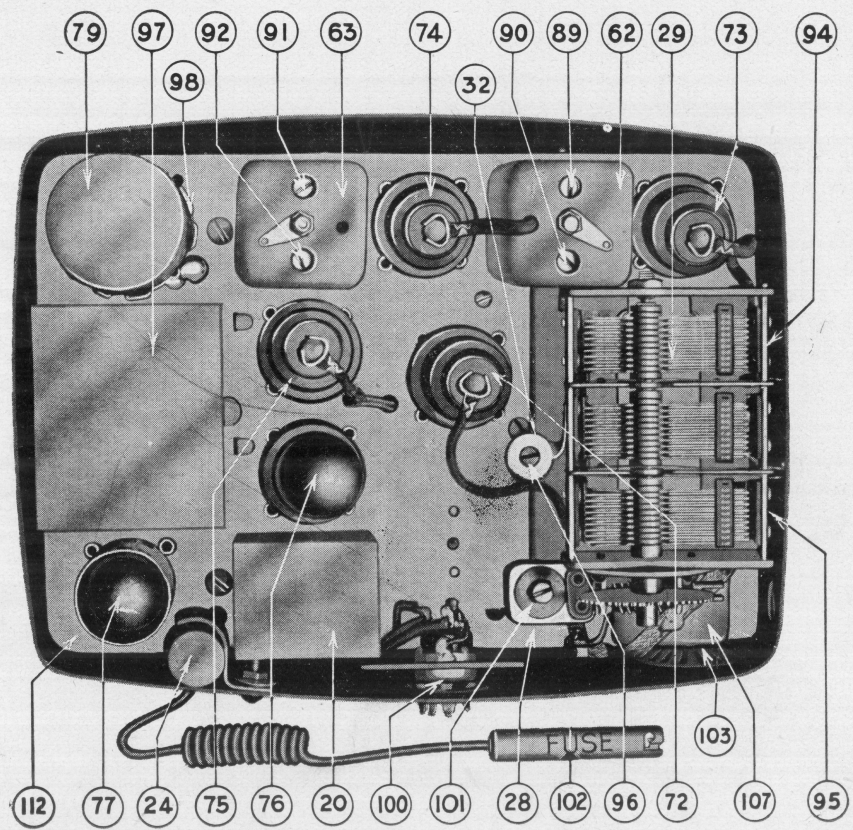


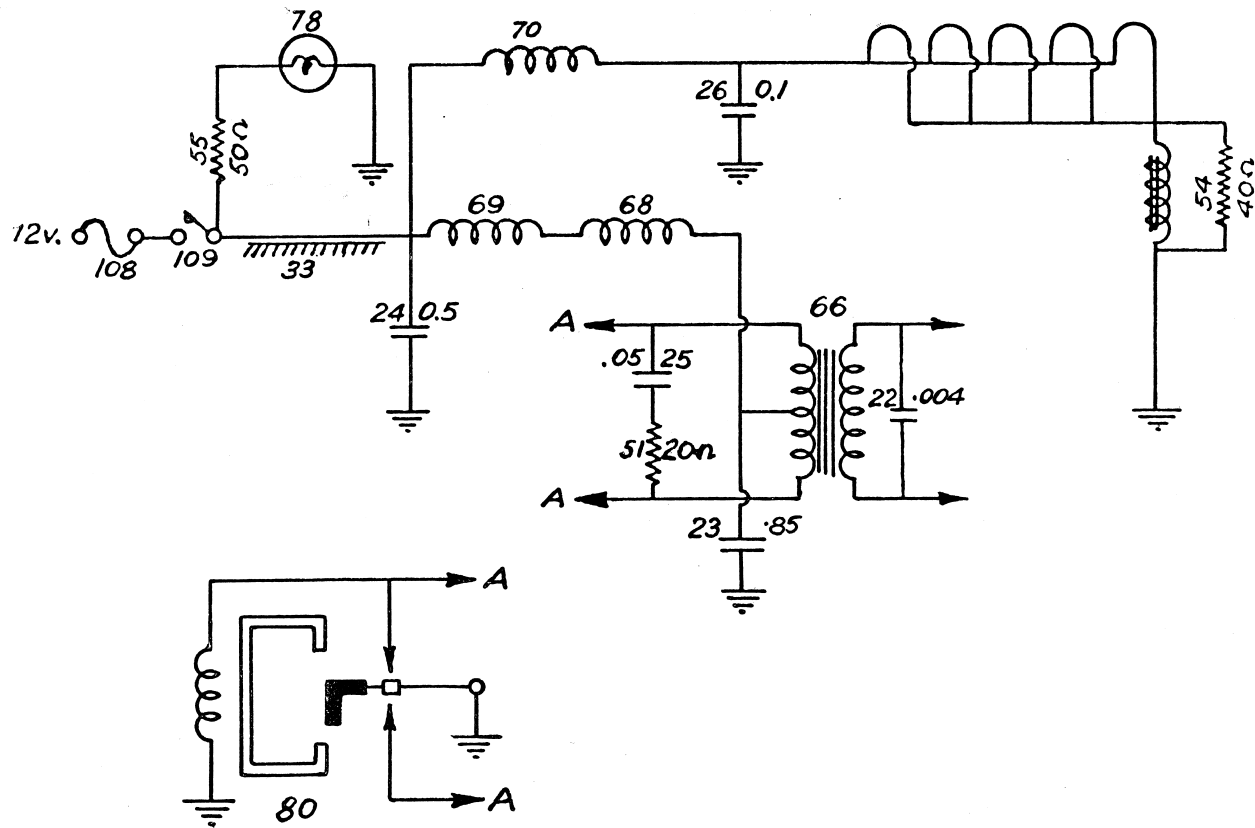


Bottom View



Top View





126-130 GRANT STREET, SOUTH MELBOURNEAUTO RADIO SERVICE BULLETIN.

SUBJECT - MODELS 6406 (6 volt)    12406 (12 volt)  
CHASSIS TYPE    "AL"                    "AM"  
PART NOS.        4013                    4014

A change has been made to these two receivers to use four glass tubes in place of the corresponding four metal tubes.

The tube change is as follows:

Circuit No.	72	6K7	tube	changed	to	6U7G	tube	PM261
"	" 73	6A8	"	"	"	6A8G	"	PM371
"	" 74	6K7	"	"	"	6U7G	"	PM261
"	" 75	6Q7	"	"	"	6B6G	"	PM299

There is no circuit alteration to the 6 volt receiver, but the 12 volt will have an additional mica condenser from the centre top of the transformer secondary to chassis. This condenser is a .001 mfd 1000V Mica PC108.

A new chassis is necessary to accommodate the above changes and the chassis number will be prefixed by the letters ALL (6 volt) and AMM (12 volt) in place of AL and AM as used on receivers using metal tubes. The number on the external number plate will also be prefixed by the letters ALL (6 volt) and AMM (12 volt). Please alter parts lists to conform to the above change. All other data and instructions remain as formerly.

ELECT. DESIGN DEPT.

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J.P.S.