ALIGNMENT TABLE

Order of Operations	*Connect High Side of Generator To*	*Tune Generator To*	*Tune Receiver To*	*Adjust for Maximum Peak Output*
Connect a 33K ohms resistor between tags 1 and 4 of transformer T4.				
1	R.F. Section of Gang	455 Kc/s	L.F. Limit	Core T7
2	R.F. Section of Gang	455 Kc/s	L.F. Limit	Core T6
3	R.F. Section of Gang	455 Kc/s	L.F. Limit	Core T5
4	R.F. Section of Gang	455 Kc/s	L.F. Limit	Core T4
Repeat steps 1 - 4 until maximum output is obtained and then remove the 33K ohm resistor. *				
5	—	—	L.F. Limit	Pointer should lie on the white line on the dial.
6	Aerial Input **	600 Kc/s	White Line at 600 Kc/s	Core Osc. Coil (T3) ***
7	Aerial Input Repeat 6 and 7	1500 Kc/s	White Line	Osc. Trimmer (VC5)
8	Aerial Input	1500 Kc/s	White Line at 1500 Kc/s	Aerial Trimmer (VC1)
9	Aerial Input	1500 Kc/s	White Line at 1500 Kc/s	R.F. Trimmer (VC3)
10	Aerial Input	600 Kc/s	White Line at 600 Kc/s	Aerial Coil (T1) ****
11	Aerial Input Repeat steps 8 - 11	600 Kc/s	White Line at 600 Kc/s	Core R.F. Coil ****

* These transformers are a very high Q miniature type. It should be appreciated then, that the amount of travel, for the tuning core to cover its tuning range, is much less than in normal I.F. transformers. Tuning the I.F. thus becomes more critical, and the following hints will prove useful.

(a) The tuning tool used should be a small metal screwdriver, whose tip fits cleanly into the tuning core.

(b) When turning the core, do not use any downward pressure, as the thread in the former has enough resilience to detune the I.F. when the pressure is removed.

(c) The thread in the former may be damaged if the core is wound in and forced against the printed board. This should never happen, as only a light torque is normally required to turn the tuning core.

** Use a resistor of 4.7K ohms in series with the generator for accurate alignment.

*** Rock the tuning control back and forth through the signal and allow for a maximum of 1 pointer width error between the white line and 600 Kc/s generator frequency for maximum output.

**** These coils have been pre-aligned in production and under normal conditions no adjustment is necessary. To find if these coils are aligned, place a piece of ferrite and then a piece of brass near the loopstick and into the top of the former of the R.F. coil. If the coils are properly aligned, the receiver's output will drop. If the output increases at any stage in this check, re-alignment of these coils is necessary.

NOTE:

All J4 receivers after Serial No. 24250 include facilities for connecting a car type aerial. A co-axial socket, suitable for car aerial lead plugs, has been mounted on the rear of the chassis and is accessable from the rear of the cabinet.

Operation of the receiver remains the same with the added advantage of the car aerial for distant reception.

Any further service information may be obtained by addressing an inquiry to:

"The Service Division," E.M.I. (Australia) Limited
575-577 Parramatta Road, Leichhardt.
Telephone LM 0291.