

repeated several times to ensure accurate alignment. Alignment frequencies and adjustments are listed in the table which follows:

Range	Frequency	Trimmer	Frequency	Core
1	20.0 Mc/s.	C39	8.6 Mc/s.	L12
2	8.0 Mc/s.	C40	3.6 Mc/s.	L13
3	3.5 Mc/s.	C41	1.5 Mc/s.	L14
4	1400 kc/s.	C42	550 kc/s.	L15
5	330 kc/s.	C43	160 kc/s.	L16

Alignment of the R.F. (Aerial) and Mixer circuits can now be commenced. The generator is connected to "A 1" and "earth" as before but must now be adjusted to match the receiver input impedance (75 ohms) for Ranges 1/3 and 400 ohms for Ranges 4/5. The output meter is connected as for I.F. alignment. Adjustments are made at the same frequencies used for oscillator alignment but using the adjustments listed in the following table. Care should be taken to ensure that the aerial circuits are set for best s/n ratio.

Range	Trimmer			Core		
	Frequency	Aerial	Mixer	Frequency	Aerial	Mixer
1	20.0 Mc/s.	C3	C21	8.6 Mc/s.	L2	L7
2	8.0 Mc/s.	C4	C22	3.6 Mc/s.	L3	L8
3	3.5 Mc/s.	C5	C23	1.5 Mc/s.	L4	L9
4	1400 kc/s.	C6	C24	550 kc/s.	L5	L10
5	330 kc/s.	C7	C25	160 kc/s.	L6	L11

On completion of these adjustments, select 550 kc/s. on Range 4, tune the generator to 465 kc/s. and increase its level until an indication is obtained on the output meter. Adjust the I.F. rejector coil L1 for *minimum* signal.

F.M. Alignment: Alignment of the F.M. tuner unit is most conveniently carried out by using an A.M. signal and with D4 shorted out as in alignment of the 10.7 Mc/s. stages. The generator is required only to establish the accuracy of the dial calibration, all other adjustments being made on noise to avoid the need for continual re-tuning of the generator to cope with pulling of the receiver oscillator which occurs when either the input or output circuits of the mixer transistor are re-tuned.

The calibration check should be carried out at 100 Mc/s. with the generator connected either to the F.M. coaxial socket or to "A2" and "earth". Oscillator trimmer C106 should be adjusted to nullify any error which may be present. Now switch off the generator and adjust C99, L21 and L22 for maximum noise output. Re-check C106 setting at 100 Mc/s. and then carry out a sensitivity check at this frequency. A figure of the order 10 μ V. should be obtained for 50 mW. output. Finally, tune the generator to 10.7 Mc/s. and adjust the I.F. rejector L17 for minimum signal output. Disconnect the short across D4 before putting the set back into its case.