

GENERAL NOTES

Switches.—S1-S30 are the wavechange switches, in three rotary units beneath the chassis. These are indicated in our under-chassis view, and shown in detail in the diagrams in col. 6, where they are drawn as seen looking from the rear of the underside of the chassis. The table (col. 5) gives the switch positions for the three control settings, starting from fully anti-clockwise. A dash indicates open, and C closed.

S31 is the QMB mains switch, ganged with the volume control R22.

Coils.—The SW coils L1, L4; L7, L10 and L13, L16 are in three unscreened tubular units beneath the chassis, close to the switch units. The remaining coils and the IF transformers are in five screened units on the chassis deck, with their associated trimmers and, in some cases, additional components.

L24 is the smoothing choke, mounted on the speaker sub-baffle, and therefore not shown in our chassis pictures.

Scale Lamps.—These are four Ever Ready MES types, rated at 5.5 V, 0.3 A.

External Speaker.—Two sockets are provided at the rear of the chassis for a high impedance (10,000 Ω) external speaker.

Condensers C13, C28, C30.—These are three 8 μ F dry electrolytics in a single carton beneath the chassis, having a common negative (black) lead. The red lead emerging with the black one (connected to one Ext. LS socket) is the positive of C30.

Of the other two red leads, that to V6 holder is the positive of C28, while that to the L19, L20 unit is the positive of C13.

Resistance R23.—This is inside the top cap connector of V4.

► **Condenser C8.**—This is inside the L7, L10 coil unit.

Resistance R18.—This is 450 Ω in our chassis, but 250 Ω in the makers' diagram.

Pre-set Condensers.—Apart from those in the five coil units on the chassis deck, there is one trimmer mounted on each SW coil unit beneath the chassis, and two variable trackers adjustable from the rear of the chassis.

CIRCUIT ALIGNMENT

IF Stages.—Short-circuit the C40 section of the gang, and switch set to MW. Connect signal generator to control grid (top cap) of V2, via a 0.1 μ F condenser, and chassis.

Feed in a 473 KC/S signal, and adjust

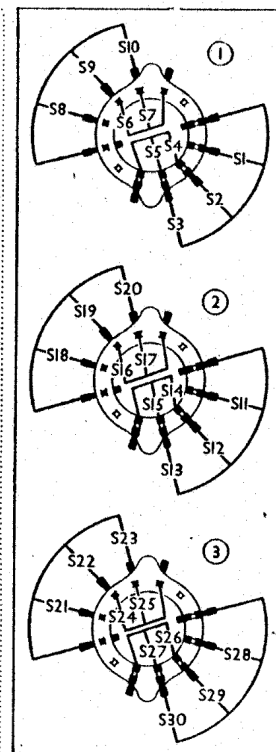
C49, C48, C47 and C46, in that order, for maximum output. Check these settings, then remove the short from the C40 section of the gang.

RF and Oscillator Stages.—With the gang at maximum, the pointer should

TABLE AND DIAGRAMS OF THE SWITCH UNITS

Switch	LW	MW	SW
S1	—	—	C
S2	—	C	—
S3	C	—	—
S4	—	—	C
S5	—	C	C
S6	—	—	C
S7	—	C	C
S8	—	—	C
S9	—	C	—
S10	C	—	—
S11	—	—	C
S12	—	C	—
S13	C	—	—
S14	—	—	C
S15	—	C	C
S16	—	—	C
S17	—	C	C
S18	—	—	C
S19	—	C	—
S20	C	—	—
S21	—	—	C
S22	—	C	—
S23	C	—	—
S24	—	—	C
S25	—	C	C
S26	—	—	C
S27	—	C	C
S28	—	—	C
S29	—	C	—
S30	C	—	—

Diagrams of the three wavechange switch units, as seen from the rear of the underside of the chassis.



Feed in a 500 m (600 KC/S) signal, tune it in, and adjust C41 for maximum output, while rocking the gang for optimum results.

Re-adjust C44, C37 and C33 at 214 m if necessary. Finally, see that the pointer is at the 500 m mark when receiving the 500 m signal, and if not make a final adjustment to the tracker C41.

SW.—Switch set to SW, and tune to 15 MC/S on scale. Unscrew C43 fully, and feed in a 15 MC/S (20 m) signal. Screw in C43, and adjust accurately to the first peak reached from the fully unscrewed position. Then adjust C36 and C32 for maximum output. Feed in a 6 MC/S (50 m) signal, and tune it in.

Adjust the top turn of L13, and at the same time rock the gang very slightly, for optimum output. Return to 15 MC/S, and re-adjust C43, C36 and C32 for maximum output.

cover the horizontal line on the scale. Connect signal generator, via a suitable dummy aerial, to the A and E sockets.

LW.—Switch set to LW, set C42 about two-thirds in, and tune to 1,000 m on scale. Feed in a 1,000 m (300 KC/S) signal, and adjust C45, then C38 and C34, for maximum output. Feed in a 1,700 m (176 KC/S) signal, tune it in, and adjust C42 for maximum output while rocking the gang for optimum results. Re-adjust C45, C38 and C34 at 1,000 m if necessary.

Finally, see that pointer is at the 1,700 m mark when receiving the 1,700 m signal, and if not, make a final slight adjustment to C42.

MW.—Switch set to MW, set C41 about two-thirds in, and tune to the 214 m mark on scale. Feed in a 214 m (1,400 KC/S) signal, and adjust C44, then C37 and C33, for maximum output.