

MODEL U29 is a 4-valve superheterodyne receiver covering the Medium and Long wavebands, for use on D.C. or A.C. mains. It has a plastic cabinet, vertical scale and three controls: Volume On/Off, Tuning, Wavechange.

MAINS SUPPLY: 200/250 D.C. or A.C. 50/100 c.p.s.

CONSUMPTION: D.C. 57.5 watts, A.C. 63 watts.

WAVE RANGES: M.W. 200-550 metres.
L.W. 900-2,000 metres.

VALVES: V1. CCH35 Frequency Changer. V2. EF39 I.F. Amplifier. V3. CBL31 2nd Det., AVC. L.F. Amplifier. V4. CY31 Half-wave Rectifier. All are Mullard with International Octal bases.

PILOT LAMP: 6.3v. 300 ma.

INTERMEDIATE FREQUENCY: 470 K/cs.

I.F. ALIGNMENT: (1) Switch to M.W. and fully mesh the gang. (2) Inject a 470 K/cs signal via a 0.1 mfd. condenser to the top cap of V1. (3) Connect output meter to the loudspeaker speech coil tags. (4) Adjust the four cores in the I.F.T.'s as follows: 2nd IFT upper and lower, then the 1st IFT upper and lower, all for maximum output. Reduce the signal input as necessary. NOTE: When using A.C. mains, check that the chassis is connected to the earthed side of the mains.

I.F. FILTER ADJUSTMENT: Remove the 0.1 mfd. condenser and inject the 470 K/cs. signal into the A and E sockets, then adjust the core of L5 for lowest meter reading.

POINTER SETTING: Fully mesh the gang then, if necessary, slide the pointer along the cord until it coincides with the datum lines beneath LONG and MEDIUM on the station scale.

CALIBRATION:

Switch to M.W.

Adjust—

M.W. Osc. Trimmer (C19) at 200, then the M.W. Osc. core at 500M.

M.W. Aer. Trimmer (C6) at 250M.

Repeat these adjustments until there is no further improvement.

Switch to L.W.

Adjust—

L.W. Osc. Trimmer (C16) at 1,000M, then the L.W. Osc. Core at 2,000M.

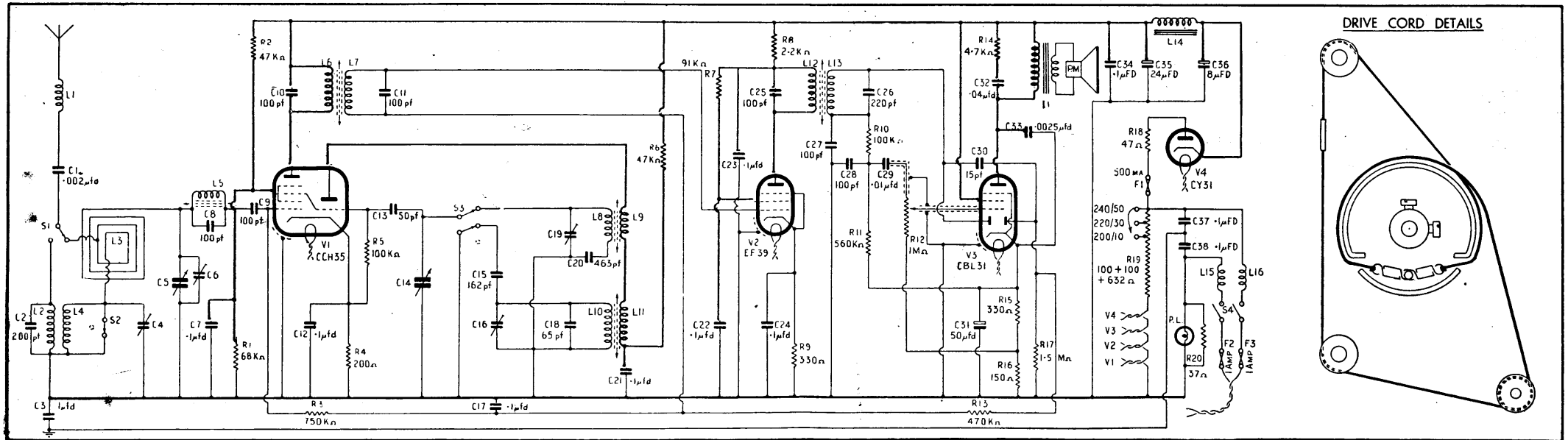
L.W. Aer. Trimmer (C4) at 1,300M.

Repeat until there is no further improvement.

CHASSIS REMOVAL: Remove the back cover and knobs. Remove the two screws securing the tops of the scale plate and baffle, then the four base screws. Chassis can now be drawn clear.

DRIVE CORD RENEWAL: Take approx. 24 inches of new cord and tie off one end to one of the springs. Next, slip on to the cord half an inch of 1 mm. sleeving, then tie off the remaining cord end to the second spring, at the same time adjusting the total length of cord plus springs to 22 inches. Trim off surplus cord. (A complete cord assembly as above can be supplied under Part Number DP. 10565). Remove the drive unit assembly by loosening the drive drum set screws, and then removing the two 2BA nuts holding the gang front. Next remove the two 4BA screws and nuts on the lower part of the unit. Draw unit clear. Lay in the new assembled drive cord as shown in the diagram, giving one complete turn round the small drive wheel. Keep the sleeving between the two loose pulleys. Refit the unit to the chassis and gang. To position the drive drum, fully mesh the gang and turn the drum until the two springs are vertical and to the left centre. Tighten the grub screws. Refit the pointer over the sleeving and slide into correct position. See pointer setting.

VARIATIONS: Some models are fitted with Mazda PEN 453 DD and Mazda valve holder in V3 position. In such cases, the lead from the volume control is disconnected from the junction of R15, R16 and connected to chassis, giving increased bias to the grid.



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