## TRADER" SERVICE SHEET

F.M. table receiver designed to from A.C. mains of 200-250V, 50 c, bands covered are: A.M., If 960-1,900m; F.M., 87.5-100 Mc/s. MPLOYING four speakers and a tuning indicator, the Pye FenMan II
is a 9-valve (plus rectifier) A.M./
I, table receiver designed to operate 185-562m,

gram employing a modified FenM chassis. Differences between the models are explained in "General N overleaf. The FenMan I is cover Service Sheet 1257.  $\mathbf{FenMan}_{\mathbf{II}}\mathbf{RG}$ G is a 3-speed of a modified Find the control of th ed autoradio-FenMan II en the two neral Notes" s covered in

Release e date, both models, May, 19 prices: FenMan II, £30 4s II RG, £67 11s 5d; Purchase 1955. 4s 2*d*;

## CIRCUIT DESCRIPTION

A.M. aerial input is coupled via I.F. rejector L9, G16 and common impedance of C17 to aerial tuning coils L10 (M.W.)

# FENMAN

and **Autoradiogra** 

trimming by G26 (M. W.)

(I.W.): series tracking by G27 (M. W.)

and G29 (L.W.). Reaction coupling from the oscillator grid circuit via the common impedance of the trackers, with additional coupling on M.W. via L12.

V4 is a variable mn R.F. pentode operating as I.F. amplifier with tuned transformer couplings L15, L16 and L21, L22, L16 is coupled to V4 control grid circuit via C35, C36 and F.M. winding

One diode section of double diode triode valve V6 operates as detector. Audio frequency component in its output is developed across R28 and is passed via treble tone control circuit C55, R34, C56 control circuit and is passed via uit C55, R34, C56
ne control circuit
d switches S20-S22

and L11 (L.W.). V3 is a triode heptode valve operating as frequency changer with external coupling.

Oscillator anode coils L13 (M.W.) and L14 (L.W.) are tuned by G32. Parallel trimming by G28 (M.W.) and G30

anode coils L13 (M.W.) and are tuned by G32. Parallel by G28 (M.W.) and G30 ries tracking by G27 (M.W.)

and volume control R38 to of V6, which operates as A **6** 

Second diode C61 from V4 a sulting D.C. potential **R46** is fed back as bias automatic le section of V anode circuit, gain developed us via **S19** t 6

Provision is made for the connection of gramophone pick-up, whose output is d via \$10 to V3a, which operates as A.F. mplifier. \$7 opens to increase V3a bias

a gramophone pick-up, whose output is fed via \$10 to V3a, which operates as A.F. amplifier. \$7 opens to increase V3a bias via R15. V3a output is coupled via tone corrector R29, C52, R30, R33, C53, and \$18 to the tone control circuits.

Output of V6 is resistance-capacitance coupled via R45, C77, R61, R60 to V8, which together with V9 operates in the push-pull output circuit. A proportion of the output of V6, that developed across R60 in potential divider R61, R60, is fed via phase invertor valve V7c to V9. R60 and R61 attenuate the input to the phase invertor in order to compensate for amplification of the circuit this circuit.

