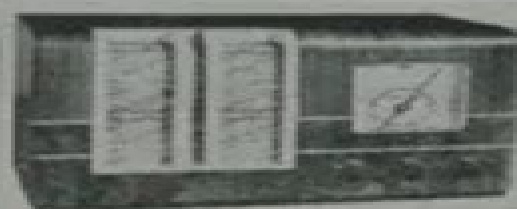


"TRADER" SERVICE SHEET

742

# FERGUSON 910

AC SHORT-WAVE "MAINS MINOR"



The appearance of the Ferguson 910 short-wave "Mains Minor."

**S**HORT waves and medium waves are covered in this worthwhile set, the Ferguson 910 Mains Minor, a 4-valve (plus rectifier) superhet designed for AC mains of 200-250 V.

*Release date:* May, 1945. *Original price:* £13 12s., plus £3 14s. *Ed. purchase tax.*

## CIRCUIT DESCRIPTION

Aerial input via C1 and coupling coils L1 (SW) and L2 (MW) to single tuned circuit L3 (SW), plus L4 (MW), tuned by C23.

First valve (V1, Mullard ECH35) is a

triode-heater operating as frequency changer with internal coupling. Triode-rectifier anode coils L7 (SW) and L8 (MW) are tuned by C17. Parallel tuning by C26 (SW) and C28 (MW); series tracking by C8 (SW) and C29 (MW). Detection by L5 (SW) and L6 (MW) and constant impedance of trackers in grid and anode circuits.

Second valve (V2, Mullard EF34) operates as IF amplifier with tuned primary, tuned secondary transformer couplings.

Intermediate frequency 475 kc/s.

Diode second detector in part of double diode triode valve (V3, Mullard EBC33). Audio frequency component is rectified output in developed across load resistor R8 and passed via C13 and manual volume control R9 to CG of triode section. IF filtering by C16, R7, C11.

Second diode of V3, fed from V2 anode via C12, provides DC potentials which are developed across load resistors R12, R13 and fed back through decoupling circuits to G2 of PC and IF valves, giving automatic volume control.

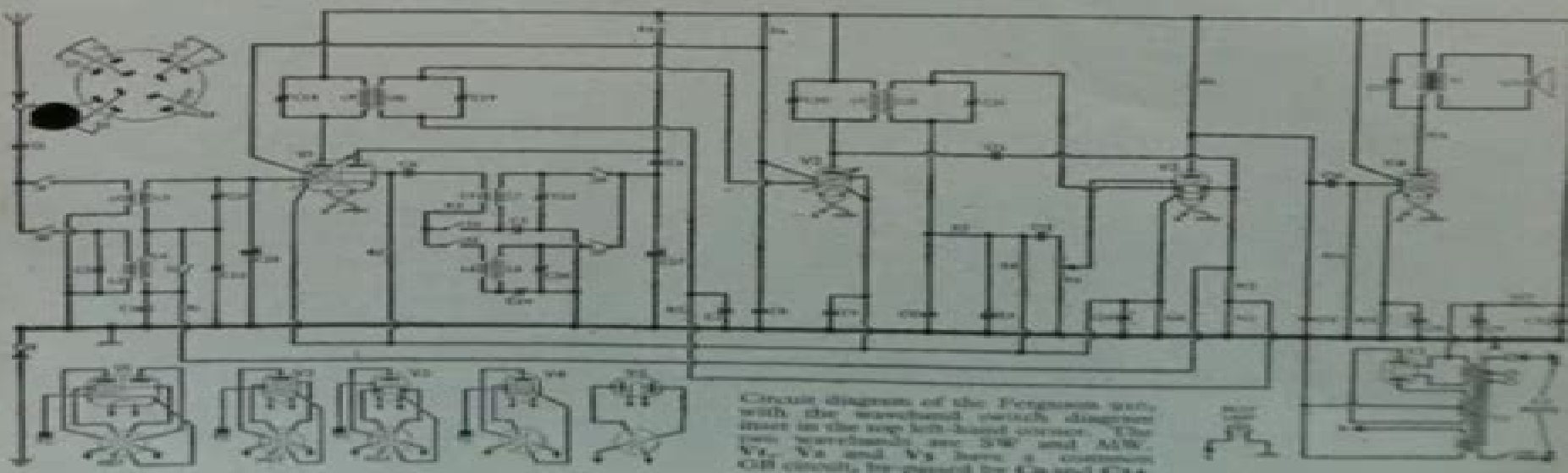
Resonance capacitance coupling by R11, C14, R14 between V2 triode and pentode output valve (V4, Mullard EL33). Fixed bias circuitry by C17 in anode circuit.

RT current is supplied by full-wave rectifying valve (V5, Mullard A231). Rectifying by R17 and electrolytic capacitors C18, C25.

## COMPONENTS AND VALUES

RESISTORS		Values (ohms)
R1	V1 bias, C12 decoupling	500,000
R2	V1 an. G2 resistor	10,000
R3	Cap. feedback coupling	50
R4	V1 an. plate RT load	10,000
R5	V1 CG decoupling	500,000
R6	V1 V2 50V RT load	100,000
R7	IF output	100,000
R8	V2 signal plate load	500,000
R9	Manual volume control	2,000,000
R10	V1-2-3-4-5 RT load	100
R11	V2 triode anode load	500,000
R12	V3 AVC diode load	500,000
R13	V4 G2 resistor	1,000,000
R14	V4 bias resistor	100,000
R15	V4 screen stopper	500
R16	IFT winding resistor	1,000

CAPACITORS		Values (pF)
C1	Aerial input coupling	5,000
C2	detuned SW circuit	50,000
C3	V1 bias, V2 G2 decoupling	50
C4	V1 an. RT capacitor	10,000
C5	Cap. dec. RT transformer	0.001
C6	V1 an. anode coupling	10,000
C7	V2 CG decoupling	50
C8	V1 V2 50V decoupling	50
C9	V1-5 capacitors by-pass	50
C10	IFT for-pipe capacitance	0.0005
C11	V2 AVC diode coupling	0.0005
C12	AT coupling to V3 triode (continued overleaf)	5,000



Circuit diagram of the Ferguson 910 with the waveband switch diagram inset in the top left-hand corner. The two wavebands are SW and MW. V1, V2 and V3 form a common ON circuit, by-passed by C6 and C24.

# Ferguson 378 Ac All Wave Superhet Repair Manual

**Michael Brown**



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