

NUMBER 154

FERGUSON 378 (A.C.)

TABLE, CONSOLE AND RADIO-GRAM

FERGUSON radio-grammaphones are covered by the Ferguson 378 (A.C.) service sheet. Provision is made for both a gramophone pickup and an electronic speaker.

The same chassis is used in the 378 (A.C.) console and the 378 (A.C.) automatic radio-grammaphone.

An A.C./D.C. version of the 378 is also made.

This Service Sheet was prepared on a 378 (A.C.) table model receiver.

CIRCUIT DESCRIPTION

Antenna input via feed condenser C1 (M.W. and F.W.) and coupling condenser C2 (M.W. and M.W.) coupling condenser C4 (F.W. only), coupling condenser C5 (M.W. only) and condenser C9 (F.W.) to independently switched stage tuned circuits comprising C208 and L5 (F.W.), L4 (M.W.), L4 (M.W.), L7 (F.W.).

First valve (V1, National Union 626) is a variable-mu pentode signal frequency amplifier.

Classified tuned-grid coupling by L8, C6 and L9 (F.W.), L10 (M.W.), L11, L12 (M.W.), L13 (F.W.) which are tuned by C16 to pentode frequency changer valve V2 (National Union 627). Circuit

TRADER'S SERVICE SHEETS

FERGUSON 378 (A.C.)

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Third valve, a variable-mu 11.17 pentode (V3, National Union 406), operated as an intermediate frequency amplifier with tuned-pentode secondary transformer couplings C31, L21, L22, C32 and C33, L23, L24, C34.

Intermediate Frequency 428 K.C.S.

Selectivity control by variable resistors R44 in V1 and V3 common cathode circuit, which varies bias G.B. applied.

Second anode detector in pentode diode triode valve (V4, National Union 75). Radio-frequency component is rectified and passed via coupling condenser C26 and mutual voltage control R15 to C.C. of triode section which operates as L.P. amplifier. Variable bias control by R44 gives V15. C15. Provision for connection of gramophone pickup by change-over switch S22, S23. L17 filtering by bypass condensers C17, C18 and C22.

L1 C potential developed across diode load R13 is fed back through decoupling capacitor as G.B. to H.P., F.C. and L.P. valves, giving automatic volume control.

Variable-capacity coupling by R218, C28 and R22, C23 to末 section (V7) of pentode output stage comprising two

triodes and intermediate speaker triode transformer T1.

T1, which is supplied by full-wave rectifying valves (V5, National Union 59), is coupled by speaker field coil L27 and dry electrolytic condenser C29, C30. Mutual H.P. bypassing by C31.

DISMANTLING THE SET

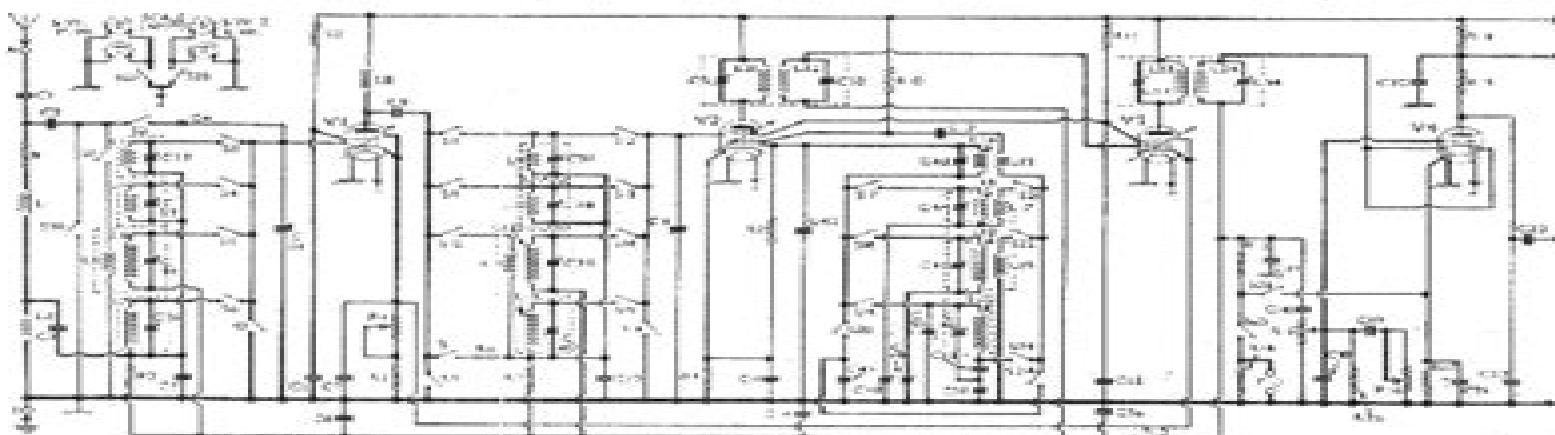
Removing Chassis.—If it is desired to remove the chassis from the cabinet, first remove the six control knobs (one with spring washers and three with nuts holding the chassis to the bottom of the cabinet). The chassis can now be withdrawn to the extent of the speaker leads, which is sufficient for normal purposes.

Wires.—After removing the four washers between the knobs and the cabinet, and note that the knobs are marked so that they must be placed on the correct spirals. Also note that the wave-length switch knob is marked "40 M.W.", "M.W.", "52 M.W." and "88 M.W.", and as there is no dot on the spirals, care must be taken to see that it is repeated correctly.

To free the chassis entirely, remove the speaker plug from the socket at the back of the cabinet.

Removing Speaker.—To remove the speaker from the cabinet, remove the nuts from the four bolts holding it to the sub-frame. **Wires.**—After fitting, see that the wave-length is on the right.

Alternatively, the speaker and the sub-



Antenna grid coils L14 (M.W.), L15 (F.W.), L16 (M.W.), L17 (F.W.) are tuned by C16, bypassed by C42 (F.W.), C43 (M.W.), C44 (M.W.), C45 (F.W.), C46 (M.W.), C47 (F.W.), C48 (M.W.), C49 (F.W.), C50 (M.W.); cathode bypass resistors are L18 (F.W.), L19 (M.W.).

pentodes (V3, V7, National Union 406), second section (V6) is fed by phase-reversing triode valve (V5, National Union 75), which obtains its input voltage from resistors of R22, R23. Third stage connection in output stage by condensers C26, C27. Provision for connection of high-impedance external speaker across

Circuit diagram of the Ferguson 378 (A.C.) all-wave speaker. A diagram of the speaker plug, viewed from the ends of the pins, is inset, the numbers corresponding with those in the circuit.

Ferguson 378 Ac All Wave Superhet Repair Manual

Xiaolong Qi

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