

B.R.C.

'Mark V' Chassis, 'Series 50' Chassis

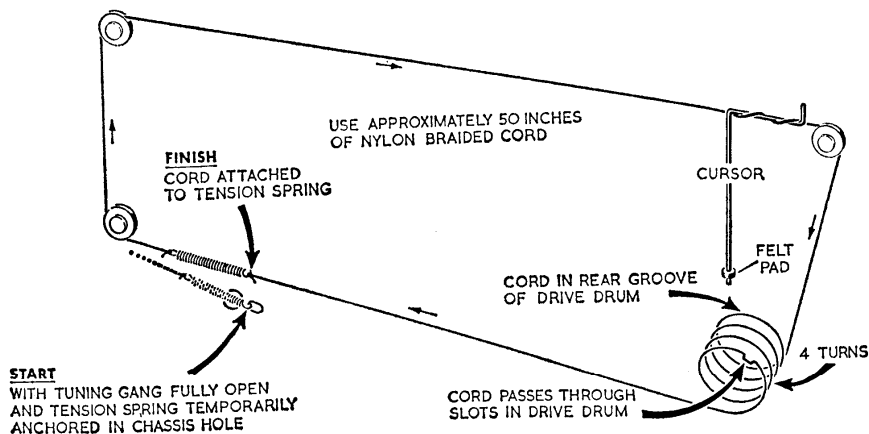
General Description: The Mk. V chassis is incorporated in the Ferguson Model 3357 (Sch.B) described in the 1970-71 volume. The Series 50 stereo-gram chassis is designed for use in B.R.C. models instead of the Mk V chassis which it replaces. Models 2351, 2352, 3359, 3360, 4351 and 6335 may be fitted with either type of chassis. The Series 50 chassis can be identified by an appropriate label on the rear of the scale backing-plate with a similar label affixed to the inside of the cabinet. The same pre-detector stages as the Mk V are used followed by modified stereo A.F. stages. Circuitry for the A.F. stages is given and should be used in conjunction with the Ferguson Model 3357 (Sch.B) information given in the 1970-71 volume. *Important:* The Series 50 and Mk. V mains transformers or loudspeakers are not interchangeable. Correct replacements must always be used.

Mk V Component Differences (Marked*): C47-2000 μ F, C62-400 μ F, C63-400 μ F, C64-2 μ F, C65-2 μ F. R32-1k5, R53-4k7, R58-10, R59-10, R64-2.2, R65-2.2, R66-2.2, R67-2.2, R68-680, R72-15, R73-15, R74-1k. LS1-15 Ω , LS2-15 Ω

Output Pairs: Series 50: OP3A/OP3B; Mk V: OP1A/OP1B: Wherever possible, the correct replacements must be used. OP1's used in Series 50 chassis would result in some loss of output. OP3's used in a Mk V chassis would marginally increase the possibility of transistor failure.

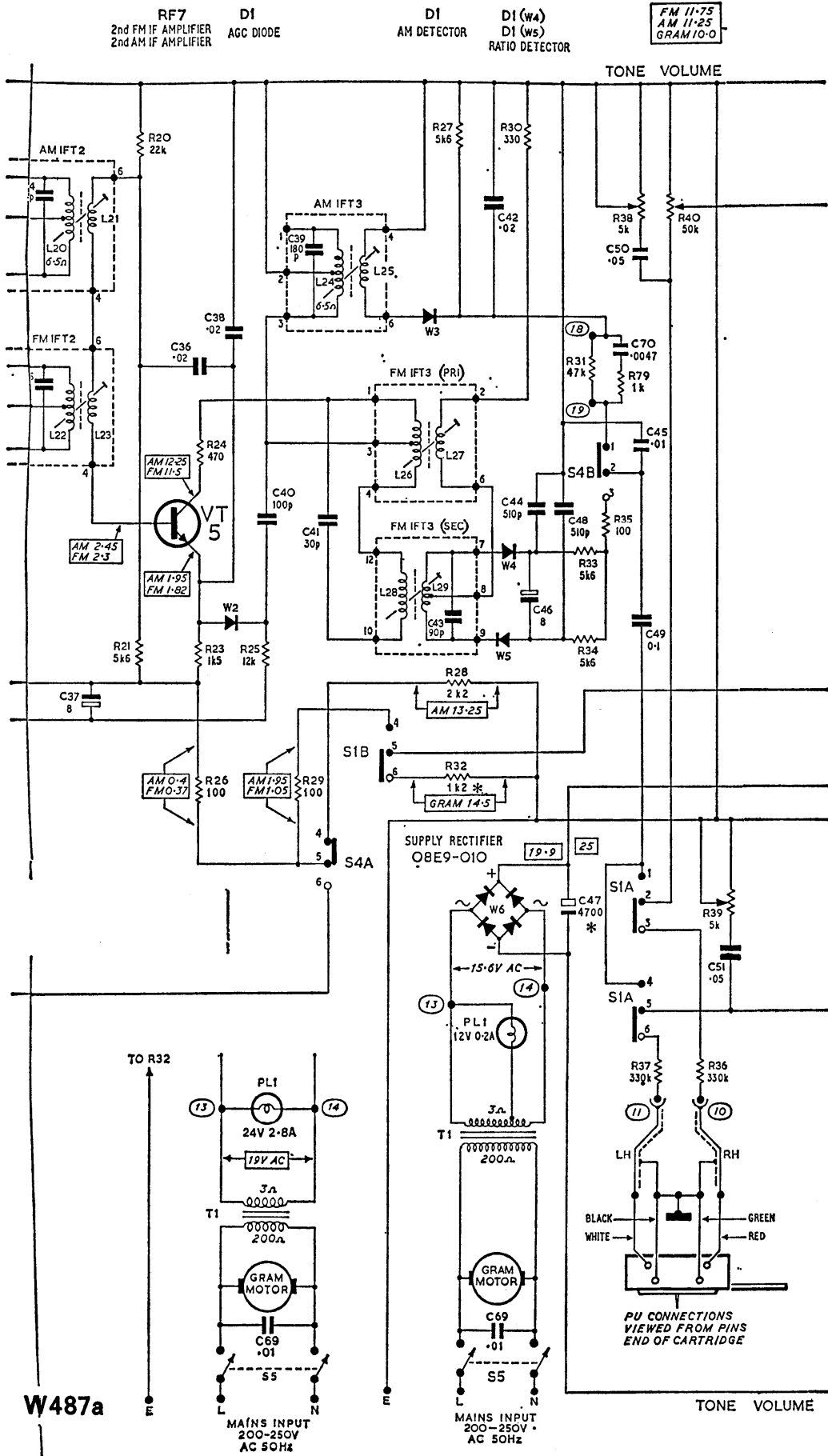
TOTAL CURRENT

Output	Series 50	Mk V
Quiescent	52 mA	58 mA
100mW	162 mA	140 mA
500mW	290 mA	255 mA
1.0 W	390 mA	330 mA
Max. Output	545 mA	430 mA



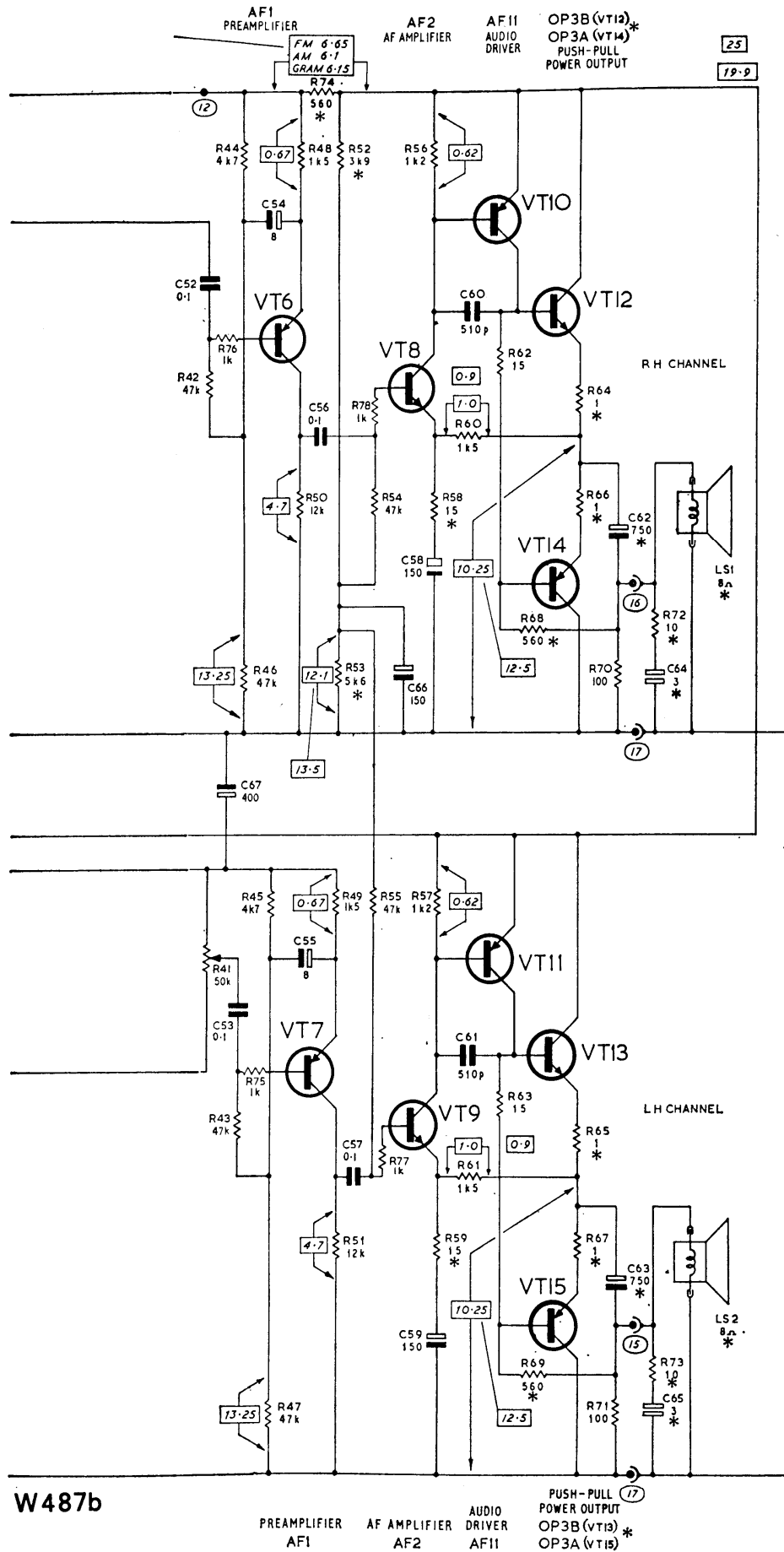
(W258) DRIVE CORD—
SERIES 50 CHASSIS

W258



(W487a) CIRCUIT DIAGRAM (A.F. STAGES)—SERIES 50 CHASSIS (Part)
 (Component Differences Marked with an Asterisk)

RADIO SERVICING



(W487b) CIRCUIT DIAGRAM (A.F. STAGES)—SERIES 50 CHASSIS (Continued)

General Description: Mains-operated stereo radiograms incorporating the B.R.C. Series 50 or Mk V chassis which is described elsewhere in this volume. Early production models are fitted with the Mk V chassis which is superseded in later production by the Series 50 chassis. Apart from a few early Mk V chassis which are unmarked, all other chassis have the type number printed on a label fixed to the rear of the scale backing plate. An important point to note is that the Series 50 and Mk V mains transformers or loudspeakers are not interchangeable.

Dismantling (Model 3359)

Chassis Removal: Take off back cover (4 screws). Pull off control knobs and take off nuts and washers either side of chassis frame securing chassis to cabinet. Ease chassis away from cabinet to clear screws and pull downwards to release from cabinet. To completely disconnect chassis, take off pickup tags and moulded speaker supply socket from chassis; release leads from terminal block (noting colour coding) and free mains lead from cleat.

Escutcheon and Scale Removal: Remove chassis, take off two nuts securing escutcheon and prise it away from cabinet. When necessary, the scale can be eased from its fixings after escutcheon removal.

Record Changer Removal: Pull off pickup leads from chassis, then unsolder motor mains feed leads from transformer. Remove four screws and cup washers securing motor board, lift and place motor board diagonally

across compartment floor. Screw transit screws fully in, pivot clips on transit screws to enable them to pass through holes in motor board, then separate changer and motor board.

Dismantling (Model 3360):

General: Removal of cabinet back gives access for removal of chassis, record changer and left-hand loudspeaker. Access to right-hand loudspeaker is gained by removing the sloping panel in record storage compartment.

Chassis Removal: Pull off control knobs and take off two nuts and washers (front and rear) securing chassis to cabinet. Ease chassis away from cabinet to clear screws and pull downwards to release from cabinet. To completely disconnect chassis, unplug pickup tags and moulded speaker supply socket from chassis; release chassis leads from terminal block (noting colour coding) and free mains lead from cleat; release aerial socket assembly. Withdraw chassis from rear of cabinet.

Scale Removal: To release scale, remove wooden retaining rail (one screw) and ease scale from under edge of control panel.

Record Changer Removal: Pull off pickup leads from chassis, then unsolder motor mains feed leads from transformer. Screw transit screws fully in, pivot clips on transit screws to enable them to pass through holes in motor board, then lift out changer.

Pick-up (Both models)

Stylus Replacement: Turn indicator flag to 78 position and with gentle downward pressure and forward movement pull stylus from cartridge. When fitting a replacement, insert stock of assembly under clip and push home, ensuring that the stylus arm is engaged in the V-shaped fork of the cartridge.

Cartridge Removal: Take out screw in pickup head to release cartridge. Pull off tags at rear of cartridge, noting colour coding for correct connection to the replacement.