

MODEL ARG134 is a quality radio-gram using a 5-valve, 3-wave-band, superheterodyne chassis and a Garrard automatic record changer.

MAINS SUPPLY. 200/250 volts, 50 cps. A.C.

Note.—The RC72 gram unit is supplied by the makers for operation on 50 cycle A.C. mains. Where it is desired to operate from 40 or 60 cycle A.C. mains, special driving wheels are obtainable from Garrard's to suit the mains frequency.

CONSUMPTION. 230 volts input. Radio—235 ma. Gram—355 ma.

CONTROLS. Tone, Tuning and Selector Switch are spaced below the tuning scale. The Volume On/Off is on the cabinet front. At the rear is the speaker switch.

The change-over from radio to gram is effected when the selector switch is turned to GR.

CHASSIS DETAILS. The chassis is basically the A104 and the published data for this model will, in the main, apply to the ARG134. In V2 anode circuit, the modified load entails increased voltage drop across R28.R10 and a lower anode voltage will be noticed when compared to the A104.

The pick-up earth is on the opposite socket to that shown for A104.

Negative feed-back is employed across V2 via C52.R32.

Negative feed-back across V3 triode via C47.

Modified AF circuit in the gram position of the selector switch. The pick-up is connected via C53.R29 and the "cold" end of L9 to

V2 grid. Amplified at AF by V2, the output is taken via R33.C51. S5.C30 and R12 to V3 triode grid. From V3 anode the AF follows the same sequence as for A104.

SPEAKER SWITCHING. A three position switch, S6, enables the internal, external or both speakers to be operated as desired. When the internal speaker is disconnected, a load resistor, R30, is connected in its place.

AUTOMATIC RECORD CHANGER. Garrard Model RC72. A separate instruction booklet which fully covers Installation, Operation and Service is published by Garrard Eng. & Mfg. Co. Ltd., Technical Service Dept., Newcastle Street, Swindon, Wilts.

Spare parts for the gram unit should be ordered direct from Garrard's at Service and Spares Dept., Okus Road, Swindon.

The RC72 does **not** play mixed loads of 10 in. and 12 in. records, but will play up to eight 10 in. or eight 12 in. providing its selector switch is set to 10 in. or 12 in. as appropriate.

To permit playing of most types of records, the unit provides three speeds, 78, 45 and $33\frac{1}{3}$ r.p.m., and two pick-up heads of the plug-in type are supplied. One head is designed for normal records running at 78 r.p.m., and the other is for micro-groove records at 45 or $33\frac{1}{3}$ r.p.m.

The stylus in either head is detachable and replacements are obtainable direct from Garrards.

To facilitate changing over the heads, the locking screw under the tone arm neck can be removed permanently providing the radio-gram is to remain stationary. The screw must be replaced as a safeguard against damage if the radio-gram is to be moved frequently or transported.

The pressure of the stylus on the record is adjustable by a tension spring visible at the pivot end of the tone arm. This adjustment is set by the makers and, as the setting is fairly critical, should not be altered unless deemed really necessary.

The spring terminates on a threaded stem held below deck by a captive 6BA nut, and the stem has to be pulled downward to free the nut, which can then be screwed either way to increase or decrease tension.

CHASSIS REMOVAL. Release the volume control and its leads from the cabinet front.

Disconnect the chassis mains leads from the junction block on the inner side of the cabinet.

Disconnect the plugs from the A and E, pick-up and speaker sockets. Remove the two wood screws near the top edge of the cabinet rear, and two at front edge, to free the chassis fascia board.

This board, along with the chassis and its wooden cradle can now be lifted clear.

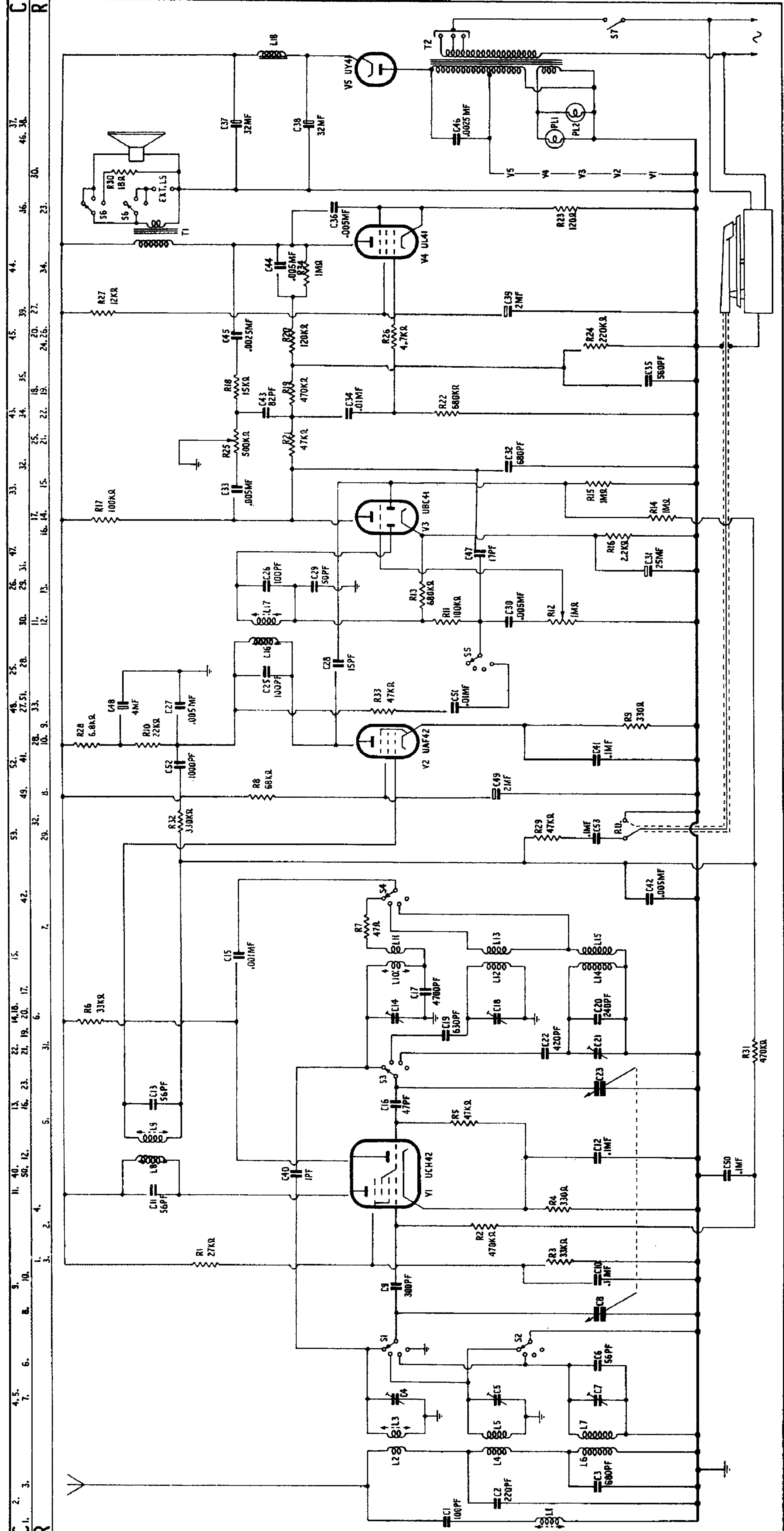
Pull off the three control knobs, then the two outer indicator discs.

The latter are held by plastic pegs moulded to the discs and although a snug fit should be removed without the aid of tools. Two screws, now exposed, should be removed.

Remove the screw at the top of each scale plate support bar.

Remove the four screws holding the base of the chassis.

Re-assemble in reverse order, and when connecting the pick-up leads, remember that the earthed side is farthest from the A and E panel.



C 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

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