

ERT

SERVICE CHART

2086



THE Alba 9071 music centre has a power output of 7.5W RMS per channel. The receiver covers LW and MW plus VHF with AFC and stereo decoder facilities.

The record play section employs a BSR single play, auto/manual, three-speed turntable unit with cueing device and is fitted with a stereo ceramic cartridge with dual turnover sapphire styli.

The cassette recorder section features facilities for recording direct from tuner or record player and from external sources, auto level control, auto CrO₂ switching, mixing and counter.

The amplifier section incorporates rotary controls for treble, bass and volume. The volume control also provides automatic bass boost at low settings. Two sets of loudspeakers can be connected and a socket for stereo headphones is provided.

Mains supply
240V AC 50Hz.

Fuse
FS1 0.5A.

Wavebands
LW 150-350kHz
MW 535-1605kHz
VHF 88-108MHz

IF
AM 470kHz
FM 10.7MHz

Aerials
AM Ferrite rod and socket for external aerial
VHF 75ohm coaxial socket

Transistors

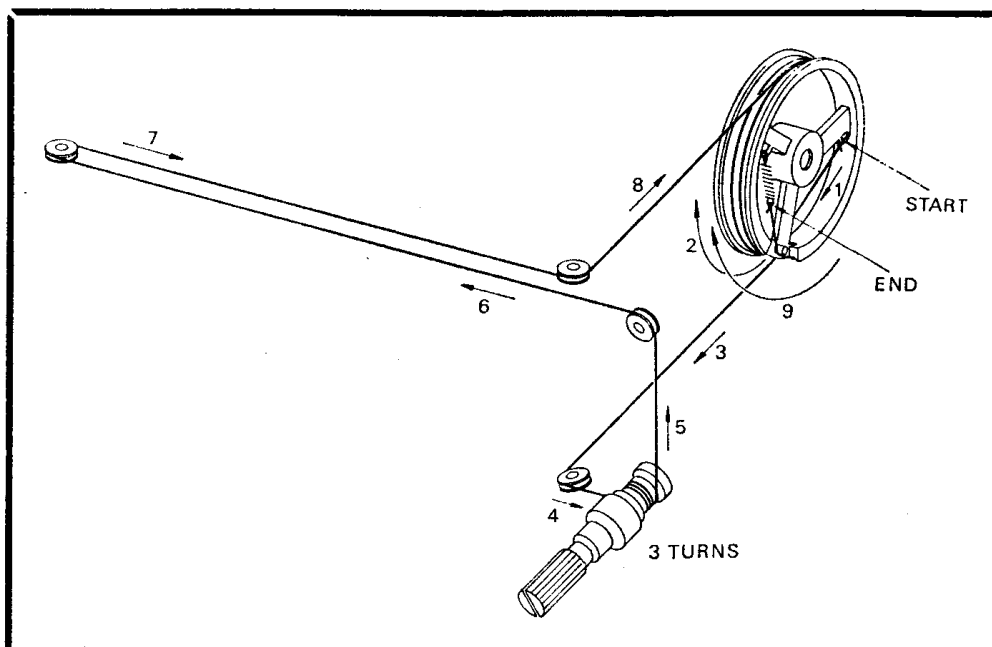
FET1	2SK33(D)
TR1	2SC710(C)
TR2	2SC710(C)
TR3	2SC710(C)
TR4	2SC710(C)
TR5	2SC710(C)
TR6	2SC710(D)
TR7	2SC710(D)
TR8	2SC710(C)
TR9	2SC900(U, E)
TR10	2SC900(U, E)
TR11	2SC923(U, E)
TR12	2SC923(U, E)
TR13	2SC923(U, E)
TR14	2SC923(U, E)
TR15	2SD365
TR501	2SD261(V, R)
TR502	2SC923(U, E)

Diodes

D1	1S2236
D3	1S188AM
D4	1S188FM
D5	1S188FM
D7	ERD11-01
D8	ERD11-01
D9	ERD11-01
D10	ERD11-01
D11	ERD11-01
D501	1S188FM
D502	1S188FM
D503	1S188FM
D504	1S188FM
D505	1S188FM
D506	1S188FM
ZD1	EQB-01-16R

Integrated circuits

IC1	LA3350
IC2	STK415
IC501	M5130P



ALBA 9071

Music Centre

(Part 1)

Indicators

- LED1 Dial pointer
- LED2 Stereo broadcast
- LED3 Recording

3. Microphone sockets for L, R and L+R

4. Stereo headphone socket.

Cassette signal/noise ratio
Better than 35dB.

Erase and bias
AC

Manufacturer

Alba (Radio and Television) Ltd, Bull Lane, Edmonton, London N18 1RA. 01-803 4451.

Inputs/outlets

1. 5-pin DIN socket for tape out (L pin 1, R pin 4) at 90mV and auxiliary input (L pin 3, R pin 5) with 180mV sensitivity.

2. Sockets for front and rear speakers for each channel.

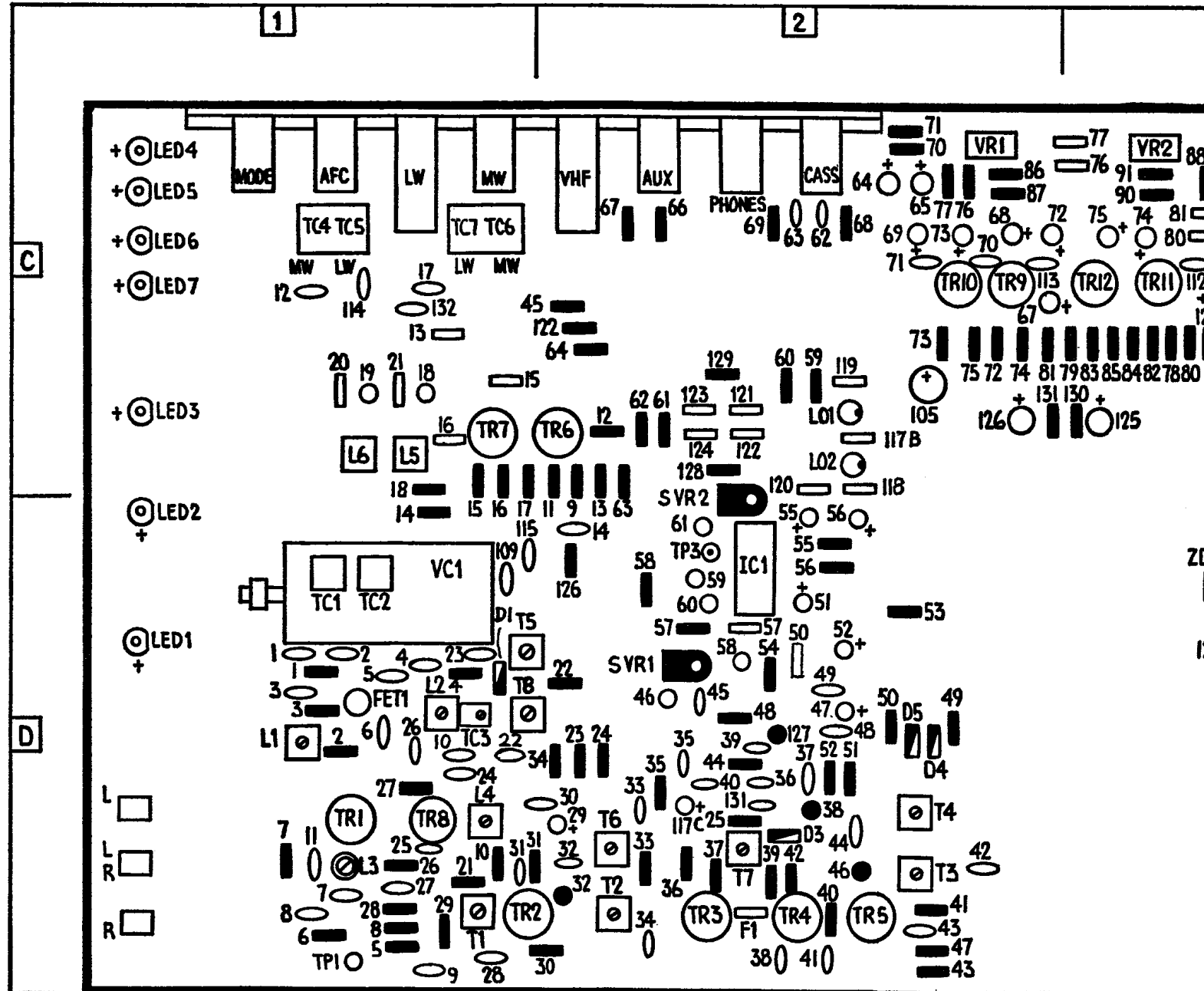
Output

7.5W RMS per channel into 8ohm load with five per cent THD.

Cassette wow/flutter

Less than 0.35 per cent RMS.

Service Dept
As above.



ALBA 9071

Music Centre

(Part 1)

Microphone sockets for L, R and

Stereo headphone socket.

Output
W RMS per channel into 8ohm load
five per cent THD.

Cassette wow/flutter
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Service Dept
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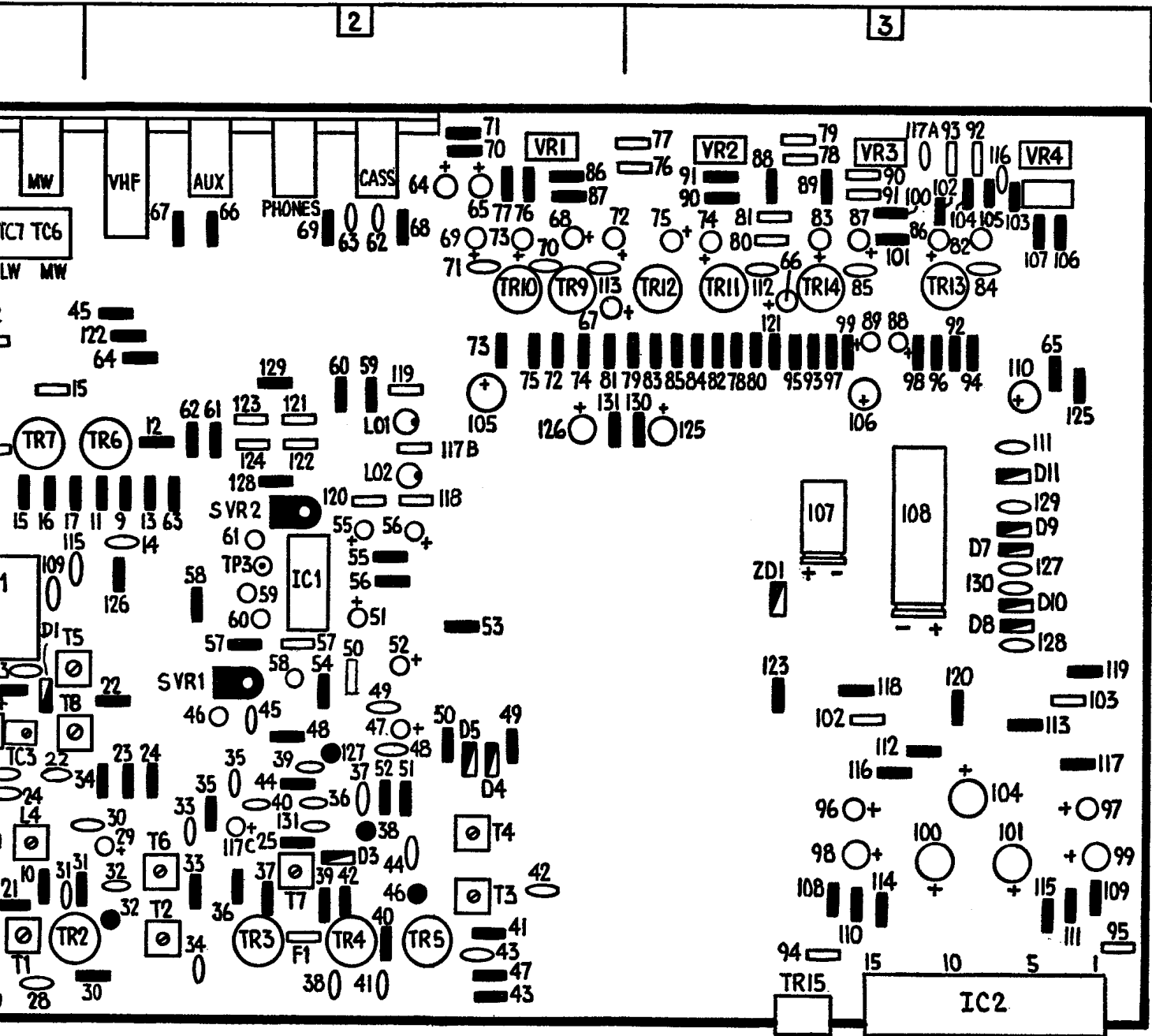
Safety

In order to comply with the latest safety regulations a low voltage ohm-meter is not suitable for testing the insulation between the mains input connections and the chassis.

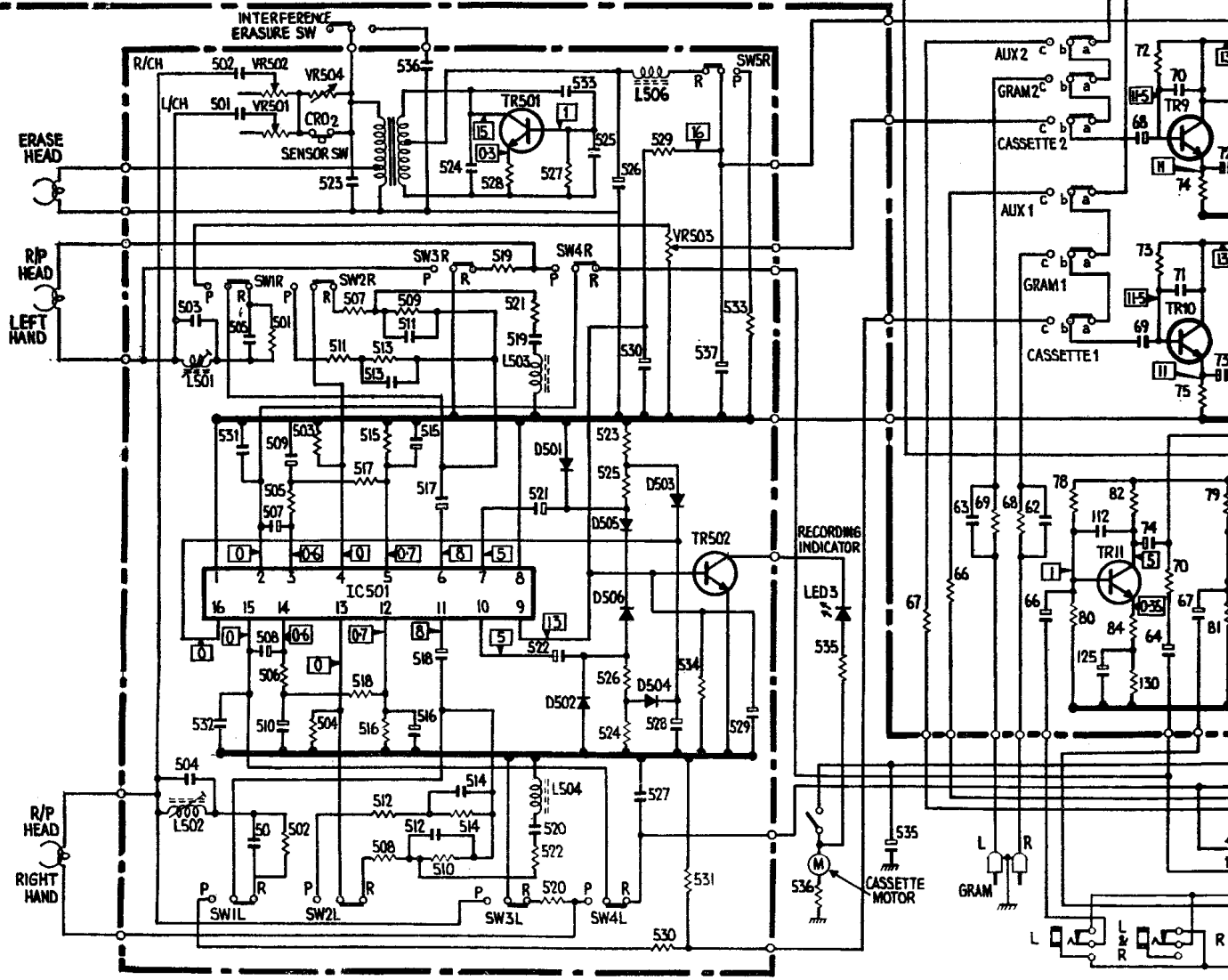
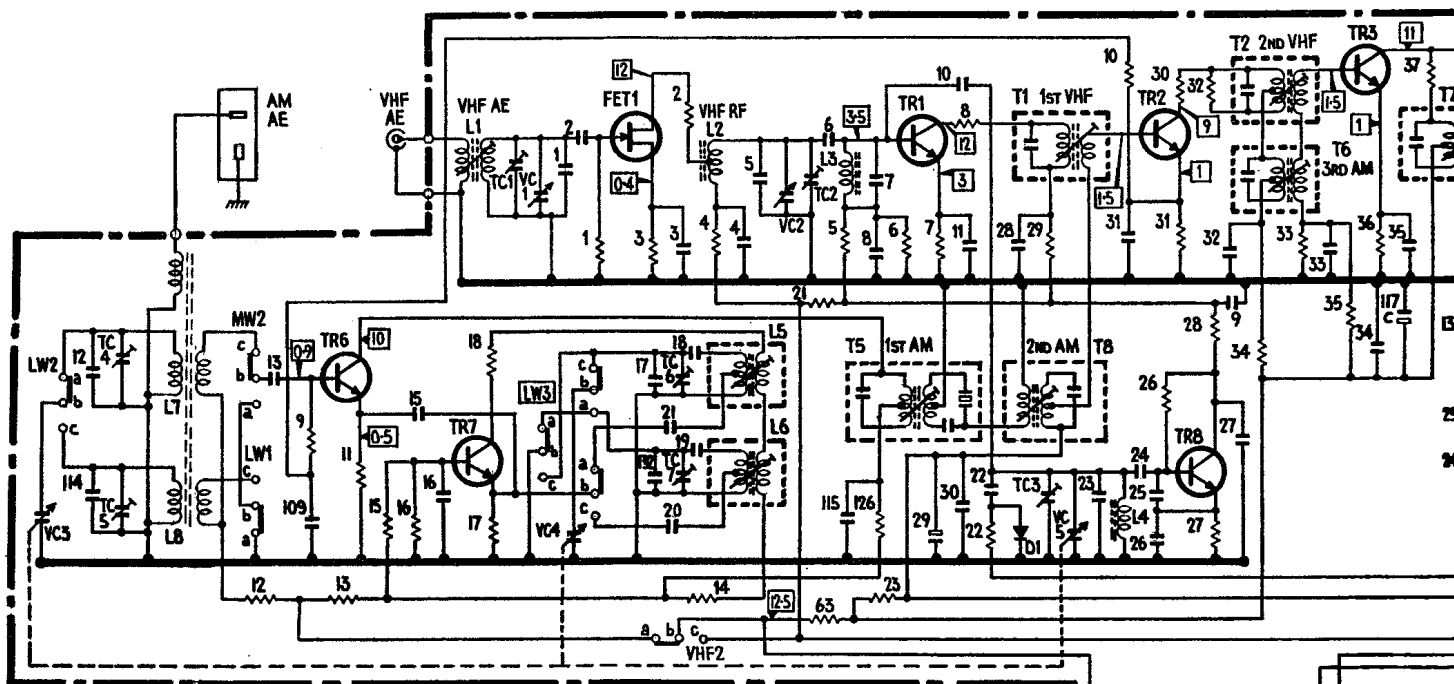
An insulation tester, of at least 500V source potential, should be used to measure the insulation resistance, in turn, between each mains lead and chassis.

Additional copies of this chart 50p, including postage. Payment with order please to Room 11, Dorset House, Stamford Street, London SE1 9LU. Because of increasing storage costs, back numbers will also cost 50p including postage from now on.

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R	12 9 11 13	15	18	1	3	2	4	21	5	126	6	7	8	22	29	30	28	33	35	36	37							
C	12 TC4	109	15	TC1	VC1	1	2	17	TC6	3	18	4	5	VC2	TC2	6	7	8	29	10	11	28	31	24	32	9	33	35
L	VC3	114	TC5	16	VC4	132	TC7	21	19	14	15	L6	L3	11	22	TC3	VC5	23	25	26	27	T1	L4	T2	T6	T7	T8	T9
	L7	L8		L1		L2		L5																				



R	501	VR502	505	503	VR504	507	513	515	512	509	528	521	520	523	526	529	534	533	536	535	67	66	69	68	78	72	82	73	74
C	502	VR501	506	504	511	517	518	516	508	510	514	519	522	527	525	524	VR503	530	531	532	535	63	65	67	70	71	74	75	76
L	LS01	LS02																											

ERT SERVICE CHART

2087

ALBA 9071 Music Centre

(Part 2)

Adjustments

Cassette channel balance

Insert a 333Hz test cassette. Connect an electronic voltmeter between TP501 (junction of R530/R531) and chassis. Depress the play button and note the EVM indication. Transfer the EVM connections to TP502 (slider of VR503) and chassis. Adjust VR503 to obtain on the EVM the previously noted indication.

Cassette CrO₂ bias

Insert blank CrO₂ cassette. Connect EVM between TP503 (junction of L501, VT501 slider), and chassis. Depress record and play buttons.

Adjust L501 for maximum EVM indication. Transfer EVM connections to TP504 (junction of L502, VR502 slider) and chassis. Adjust L502 for maximum EVM indication. Adjust VR502 for an EVM indication of 5.6mV.

Transfer the EVM connections to TP503 (junction of L501, VR501 slider) and chassis. Adjust VR501 for an EVM indication of 5.6mV.

Cassette FeO bias

Insert blank FeO cassette. Connect an EVM between TP503 (junction of L501, VR501 slider) and chassis. Depress record and play buttons. Adjust VR504 for an EVM indication of 3.6mV. Transfer the EVM connections to TP504 (junction of L502, VR502 slider) and chassis. Check that the EVM indication is 3.6mV.

Alignment

During alignment the signal input is to be kept as low as possible to avoid AGC and limiting action.

AM IF

Switch to MW and set tuning to a quiet point on band. Connect a sweep generator, set to 470kHz, between VC3 and chassis. Connect a scope between junction R38/R127 and chassis.

Adjust T5, T8, T6 and T7 for maximum amplitude consistent with a double peaked response curve.

AM RF

Switch to MW. Connect an AM signal generator, set to 1500kHz (modulation 400Hz at 30 per cent), between VC3 and chassis. Connect an EVM across one of the loudspeakers. Set tuning to 1500kHz (200m).

Adjust TC6 for maximum EVM indication. Set signal generator and tuning to 600kHz (500m). Adjust L5 for maximum EVM indication. Repeat 1500 and 600kHz adjustments.

Set signal generator and tuning to 1400kHz (214m). Adjust TC4 for maximum EVM indication. Set signal generator and tuning to 600kHz (500m). Adjust L7 on the ferrite rod for maximum EVM indica-

tion. Repeat 1400 and 600kHz adjustments.

Switch to LW. Set signal generator and tuning to 300kHz (1000m). Adjust TC7 for maximum EVM indication. Set signal generator and tuning to 150kHz (2000m). Adjust L6 for maximum EVM indication. Repeat 300 and 150kHz adjustments.

Set signal generator and tuning to 300kHz (1000m). Adjust TC5 for maximum EVM indication. Set signal generator and tuning to 170kHz (1760m). Adjust L8 on the ferrite rod for maximum EVM indication. Repeat 300 and 170kHz adjustments.

FM IF

Switch to VHF and set tuning to quiet point on band. Connect a sweep generator, set to 10.7MHz, 75kHz deviation at 1000Hz, via a 2p capacitor between junction R6/L3 and chassis. Connect a scope between junction R46/C44 and chassis. Adjust T1, T2, T3 and T4 for maximum amplitude and optimum symmetry of the response curve about the centre frequency.

FM RF

Connect an FM signal generator to the aerial socket and an EVM across one of the loudspeakers. Set the signal generator and tuning to 104MHz. Adjust TC3 for maximum EVM indication.

Set tuning and signal generator to 88MHz. Adjust L4 for maximum EVM indication. Repeat 104 and 88MHz adjustments.

Set tuning and signal generator to 100MHz. Adjust TC1 and TC2 for maximum EVM indication. Set tuning and signal generator to 90MHz. Adjust L1 and L2 for maximum EVM indication. Repeat 100 and 90MHz adjustments.

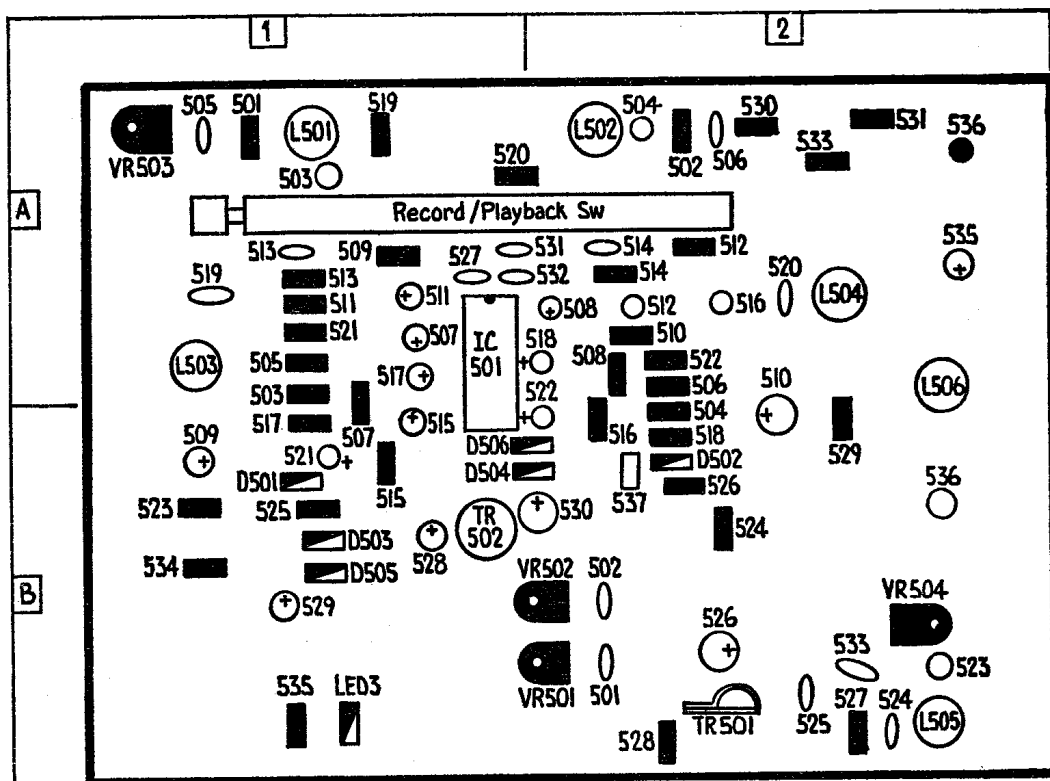
Stereo decoder

Connect an FM stereo signal generator, set to 95MHz (deviation 75kHz at 1000Hz) with 1.1mV output level, to the aerial socket. Connect a frequency counter between TP3 (located between C61 and C59) and chassis. Set tuning to 95MHz.

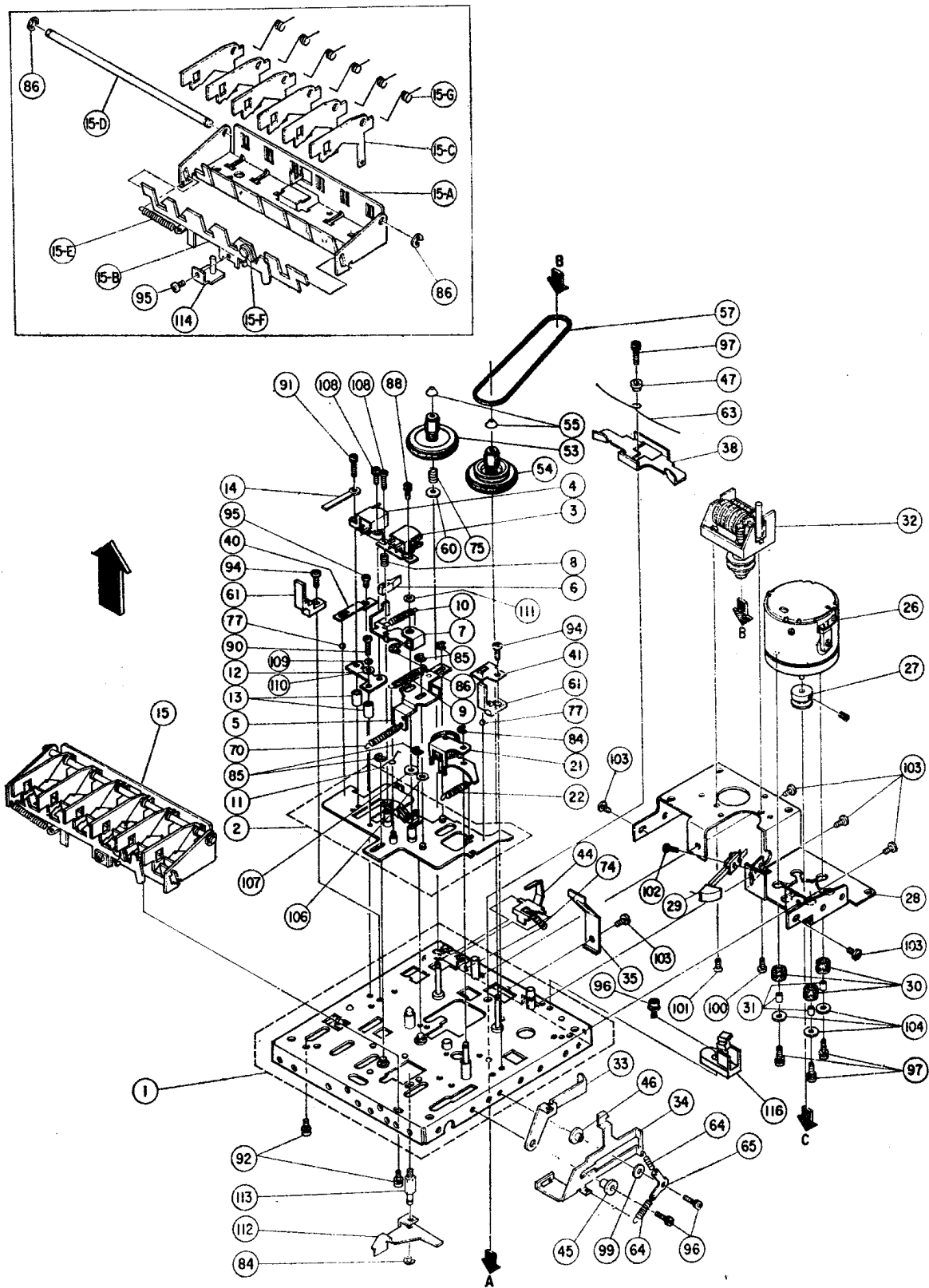
Adjust SVR1 for a frequency counter indication of 19kHz. Disconnect the frequency counter. Switch the stereo generator to left channel output. Connect an EVM across the right channel speaker. Adjust SVR2 for minimum EVM indication.

Switch stereo generator to right channel output and transfer the EVM to the left channel speaker. Note setting of SVR2 and readjust for minimum EVM indication. Repeat adjustments as necessary to optimise the setting of SVR2 for minimum crosstalk.

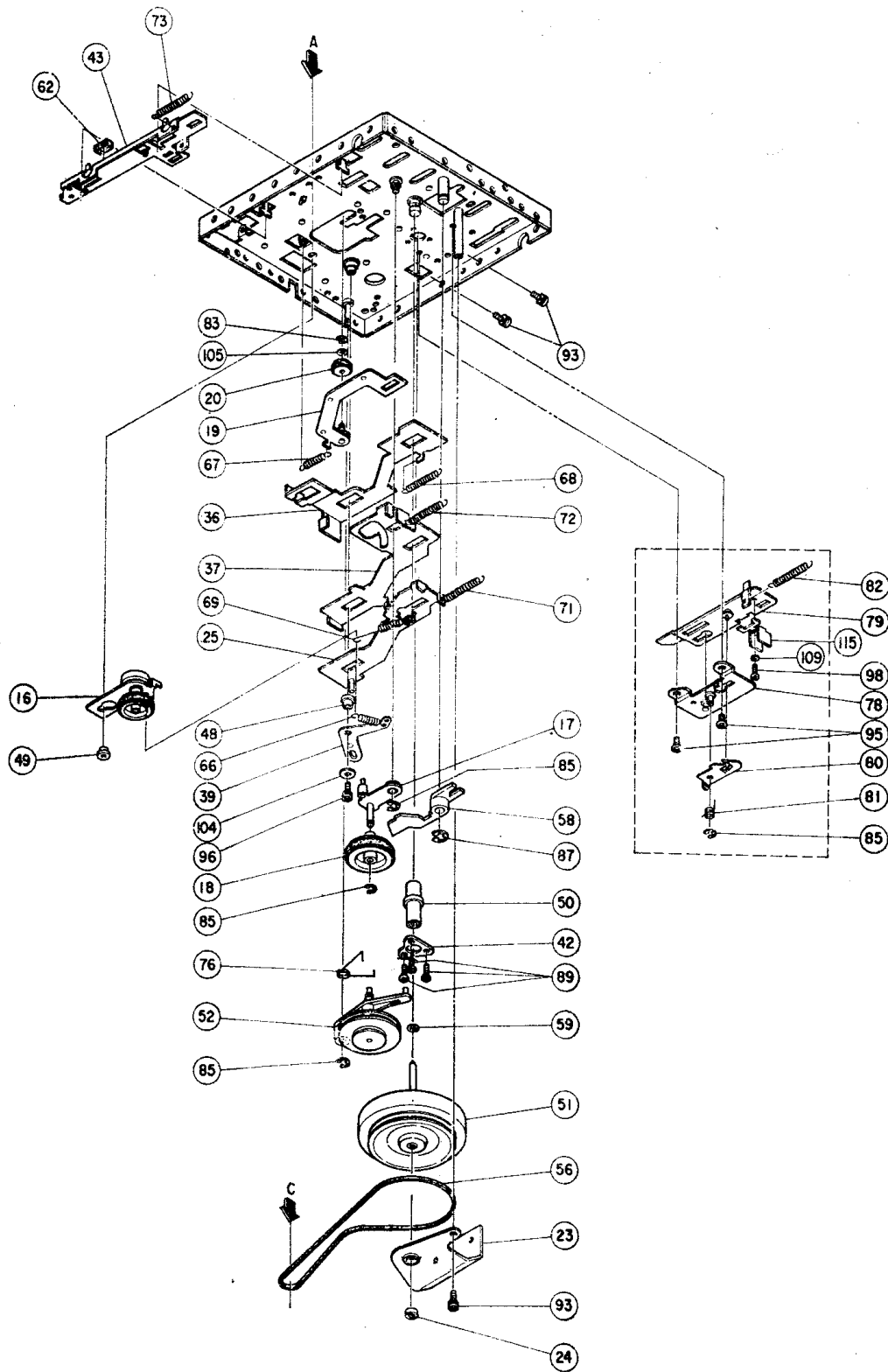
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RESISTORS		CAPACITORS	
R1	1M	D1	20p
R2	56	D1	50p
R3	270	D1	5n
R4	150	D1	20n
R5	12K	D1	12p
R6	5K6	D1	4p
R7	2K7	D1	30p
R8	100	D1	300p
R9	10K	C2	C9
R11	1K	C2	C10
R12	560	C2	C11
R13	390	C2	C12
R14	100	D1	C13
R15	27K	C1	C14
R16	12K	C1	C15
R17	2K2	C1	C16
R18	680	C1	C17
R21	100	D1	C18
R22	10K	D2	C19
R23	100K	D2	C20
R24	10K	D2	C21
R25	8K2	D2	C22
R26	820K	D1	C23
R27	1K	D1	C24
R28	100	D1	C25
R29	100	D1	C26
R30	1K5	D1/2	C27
R31	1K	D1	C28
R32	5K6	D2	C29
R33	10K	D2	C30
R34	100	D2	C31
R35	33K	D2	C32
R36	1K	D2	C33
R37	270	D2	C34
R38	1K	D2	C35
R39	560	D2	C36
R40	15K	D2	C37
R41	2K2	D2	C38
R42	1K	D2	C39
R43	1K5	D2	C40
R44	10K	D2	C41
R45	15K	D2	C42
R46	56	D2	C43
R47	560	D2	C44
R48	100K	D2	C45
R49	1K	D2	C46
R50	1K	D2	C47
R51	4K7	D2	C48
R52	4K7	D2	C49
R53	68	D2	C50
R54	4K7	D2	C51
R56	4K7	D2	C52
R57	8K2	D2	C53
R58	3K3	D2	C54
R59	15K	C2	C55
R60	15K	C2	
R61	68K	C2	
R62	68K	C2	
R63	100	C2	
R64	120	C2	
R65	270	C3	
R66	270K	C2	
R67	270K	C2	
R68	680K	C2	
R69	680K	C2	
R70	5K6	C2	
R71	5K6	C2	
R72	560K	C2	
R73	560K	C2	
R74	8K2	C2	
R75	8K2	C2	
R76	560	C2	
R77	560	C2	
R78	100K	C3	
R79	100K	C3	
R80	10K	C3	
R81	10K	C2	
R82	1K	C3	
R83	1K	C3	
R84	18	C3	
R85	18	C2	
R86	10K	C2	
R87	10K	C2	
R88	8K2	C2	
R89	8K2	C3	
R90	10K	C3	
R91	10K	C3	
R92	390K	C3	
R93	390K	C3	
R94	68K	C3	
R95	68K	C3	
R96	2K7	C3	
R97	2K7	C3	
R98	470	C3	
R99	470	C3	
R100	470	C3	
R101	470	C3	
R102	470	C3	
R103	470	C3	
R104	10K	C3	
R105	10K	C3	
R106	3K3	C3	
R107	3K3	C3	
R108	220K	D3	
R109	220K	D3	
R110	390K	D3	
R111	390K	D3	
R112	220K	D3	
R113	220K	D3	
R114	12	D3	
R115	12	D3	
R116	4R7	D3	
R117	4R7	D3	
R118	18K	D3	
R119	18K	D3	
R120	100	D3	
R121	150	C3	
R122	150	C2	
R123	470	D3	
R125	270	C3	
R126	3K3	D2	
R127	4K7	D2	
R128	2K2	C2	
R129	2K2	C2	
R130	27	C3	
R131	27	C2	
R201	270	—	
R202	270	—	
R501	12K	A1	
R502	12K	A1	
R503	390	A1	
R504	390	B2	
R505	56K	A1	
R506	56K	A2	
R507	12K	A/B1	
R508	12K	A2	
R509	180K	A1	
R510	180K	A2	
R511	33K	A1	
R512	33K	A2	
R513	820K	A1	
R514	820K	A2	
R515	1K5	B1	
R516	1K5	B2	
R517	100K	B1	
R518	100K	B2	
R519	10	A1	
R520	10	A1/2	
R521	150	A1	
R522	150	A2	
R523	1K	B1	
R524	1K	B2	
R525	1K5	B1	
R526	1K5	B2	
R527	82K	B2	
R528	33	B2	
R529	220	B2	
R530	4K7	A2	
R531	15K	A2	
R533	1K	A2	
R534	5K6	B1	
R535	270	B1	
R536	10	A2	
VR1	50K	C2	
VR2	50K	C3	
VR3	200K	C3	
VR4	100K	C3	
VR501	200K	B1/2	
VR502	200K	B1/2	
VR503	20K	A1	
VR504	100K	B2	
SVR1	5K	D2	
SVR2	1K	D2	
C56	1μ 16V	D3	
C57	47n	C3	
C58	1n5	C2	
C59	220n 50V	C3	
C60	470n 50V	C3	
C61	330n 50V	D2	
C62	25p	D2	
C63	25p	D2	
C64	470n 50V	D2	
C65	470n 50V	D2	
C66	4μ7 16V	D2	
C67	4μ7 16V	D2	
C68	220n 50V	D2	
C69	220n 50V	D2	
C70	50p	D2	
C71	50p	D2	
C72	4μ7 16V	D2	
C73	4μ7 16V	D2	
C74	4μ7 16V	D2	
C75	4μ7 16V	D2	
C76	39n	C2/3	
C77	39n	C2/3	
C78	39n	C3	
C79	39n	C3	
C80	2n2	C3	
C81	2n2	C3	
C82	4μ7 16V	C3	
C83	4μ7 16V	C3	
C84	600p	C3	
C85	600p	C3	
C86	4μ7 16V	C3	
C87	4μ7 16V	C3	
C88	10μ 6V3	C3	
C89	10μ 6V3	C3	
C90	3n9	C3	
C91	3n9	C3	
C92	47n	C3	
C93	47n	C3	
C94	47n	D3	
C95	47n	D3	
C96	3μ3 35V	D3	
C97	3μ3 35V	D3	
C98	220μ 16V	D3	
C99	220μ 16V	D3	
C100	470μ 25V	D3	
C101	470μ 25V	D3	
C102	47n	D3	
C103	47n	D3	
C104	330μ 35V	D3	
C105	470μ 16V	C2	
C106	470μ 16V	C3	
C107	220μ 25V	C/D3	
C108	2200μ 25V	C/D3	
C109	50n	C/D3	
C111	470μ 10V	D1	
C111	50n	C3	
C112	200p	C3	
C113	200p	C2	
C114	25p	C1	
C115	50n	D1/2	
C116	500p	C3	
C117A	500p	C3	
C117B	4n7	C2	
C117C	10μ 6V	D2	
C118	4n7	C/D2	
C119	1n	C2	
C120	1n	C/D2	
C121	15n	C2	
C122	15n	C2	
C123	6n8	C2	
C124	6n8	C2	
C125	100μ 6V3	C3	
C126	100μ 6V3	C2	
C127	50n	D3	
C128	50n	D3	
C129	50n	C3	
C130	50n	D3	
C131	5n	D2	
C132	62p	C1	
C501	200p	B2	
C502	200p	B2	
C503	140p	A1	
C504	140p	A2	
C505	2n2	A1	
C506	2n2	A2	
C507	470n 50V	A1	
C508	470n 50V	A2	
C509	47μ 16V	B1	
C510	47μ 16V	A/B2	
C511	100n	A1	
C512	100n	A2	
C513	2n2	A1	
C514	2n2	A2	
C515	10μ 16V	B1	
C516	10μ 16V	A2	
C517	10μ 16V	A1	
C518	10μ 16V	A1/2	
C519	39n	A1	
C520	39n	A2	
C521	4μ7 16V	B1	
C522	4μ7 16V	B1/2	
C523	5n	B2	
C524	20n	B2	
C525	10n	B2	
C526	47μ 16V	B2	
C527	2n2	A1	
C528	47μ 16V	B1	
C529	100μ 16V	B1	
C530	220μ 16V	B1/2	
C531	2n2	A1/2	
C532	2n2	A1/2	
C533	1n	B2	
C535	470μ 10V	A2	
C536	1n5	B2	
C537	100μ 16V	B2	



- | | | |
|--|--|---|
| <ol style="list-style-type: none"> 1. Chassis assy. 2. Head panel assy. 3. R/P head 4. Erase head 5. Head panel pushing plate 6. Sensor. 7. Sensor arm. 8. R/P head spring. 9. Link spring. 10. Sensor spring. 11. Spring for pick up lever. 12. Erase head base. 13. Erase head stud. 14. Lug terminal. 15. Push button assy. 15A Push lever frame. 15B Push level lock plate assy. 15C Push lever. 15D Push lever shaft. 15E Push lever lock plate spring 15F Pop up lever spring. 15G Push lever spring. 16. FF idler arm assy. 17. Auto idler supportter. 18. Auto idler. | <ol style="list-style-type: none"> 19. REW idler arm assy. 20. REW idler. 21. Pinch roller assy. 22. Pinch roller spring. 23. Flywheel support. 24. Polyacetall screw. 25. FF arm assy. 26. Motor 27. Motor pulley. 28. Motor bracket. 29. Leaf switch. 30. Rubber cushion. 31. Spring tube. 32. Counter. 33. Pop up lever B. 34. Pop up lever C. 35. Cassette hold back spring plate. 36. Brake lever. 37. REW lever. 38. Brake arm. 39. FF tension arm. 40. Head panel retainer A. 41. Head panel retainer D. 42. Flywheel metal support. 43. Erase preventing latch A. | <ol style="list-style-type: none"> 44. Erase preventing latch B. 45. Spacer for pop up lever B. 46. Spacer for pop up lever C. 47. Brake arm collar. 48. Spacer for FF tension arm. 49. Spacer for FF idler arm. 50. Flywheel metal. 51. Flywheel. 52. Slip clutch. 53. Supply reel assy. 54. Take up reel assy. 55. Reel cap. 56. Drive belt. 57. Counter belt. 58. Auto lever. 59. Washer. 60. Washer. 61. Cassette guide. 62. Cushion. 63. Brake arm spring. 64. Pop up lever C spring. 65. Lug. 66. FF idler spring. 67. REW arm spring. 68. Brake lever spring. |
|--|--|---|



- | | |
|--|--|
| 69. REW tension spring. | 94. Screw M2-6 × 5 with spring washer. |
| 70. Head panel spring. | 95. Screw M2-6 × 3 with spring washer. |
| 71. FF arm spring. | 96. Screw M2-6 × 6 with spring washer. |
| 72. REW lever spring. | 97. Screw M2-6 × 8 with spring washer. |
| 73. Erase preventing latch spring A. | 98. Screw M2 × 3. |
| 74. Erase preventing latch spring B. | 99. Flat washer. |
| 75. Back tension spring. | 100. Screw M3 × 6. |
| 76. Slip clutch spring. | 101. Screw M3 × 6. |
| 77. Steel ball. | 102. Screw M2 × 6. |
| 78. Pause base assy. | 103. Screw M3 × 5. |
| 79. Pause arm assy. | 104. Flat washer M2-6. |
| 80. Pause cam. | 105. Washer 2. |
| 81. Pause cam spring. | 106. Washer 3. |
| 82. Pause arm spring. | 107. Washer 4. |
| 83. E ring 1-5. | 108. Screw M2 × 5. |
| 84. E ring 2-0. | 109. Spring washer M2. |
| 85. E ring 2-5. | 110. Flat washer M2. |
| 86. E ring 3-0. | 111. R/P head spacer. |
| 87. E ring 4-0. | 112. Pop up lever D. |
| 88. Screw M2 × 4 with spring washer. | 113. Pop up lever shaft. |
| 89. Screw M2 × 5. | 114. Auto stop kicker. |
| 90. Screw M2 × 10. | 115. Pause arm support. |
| 91. Screw M2 × 12. | 116. Chrome sensor switch. |
| 92. Screw M2-6 × 4 with spring washer. | |
| 93. Screw M2-6 × 5 with spring washer. | |