Supplement to Electrical and Radio Trading, June 5, 1986

ERT SERVICE CHART

2532

AMSTRAD SM103
Vertical stack modul
(Part 1)

General

Audio output
8 Watts RMS per channel into 4 ohms.

Distortion
1% at 1kHz at full power.
0·2% at 1kHz, half power.

Signal-to-noise ratio
Better than 50dB.

Transistors

TR1	2SC535 or BF595
TR2	2SC1417 or BF595
TR3	2SC461 or BF595
TR-5	2SC732 or BC237
TR101-104	2SC732 or BC237
TR201	2SD471 or BD139
TR301-302	BC547
TR401-404	2SC732 or BC237
TR405-412	BC547
TR413-414	2SC1317 or BC237

Diodes

D1	1N4148
D2	SD117
D3-5	1N60
D6-7	1N4148
D201-208	1N4002
D401-402	1N4148
D403-406	1N60
ZD1	10V zener

Integrated circuits

IC1	µPC1018 (IF amp.)
IC2	µPC587C2 (stereo decoder)
IC3-4	TDA2030 (audio amp.)

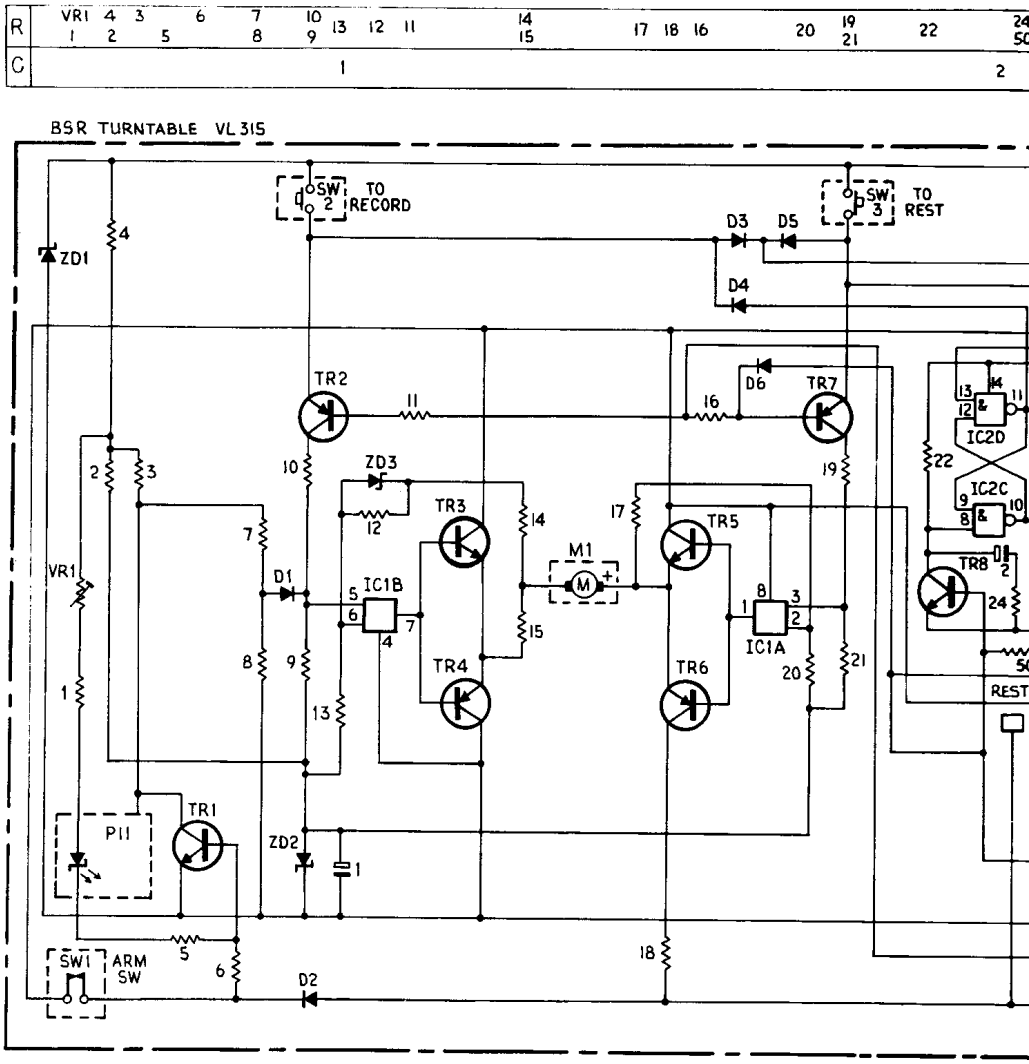
Fuses
FS201-202: T2A (mains secondary)
FS203: T315mA (mains primary)
A fusible resistor (R43) is also fitted.

Power supply
220-240V 50Hz.

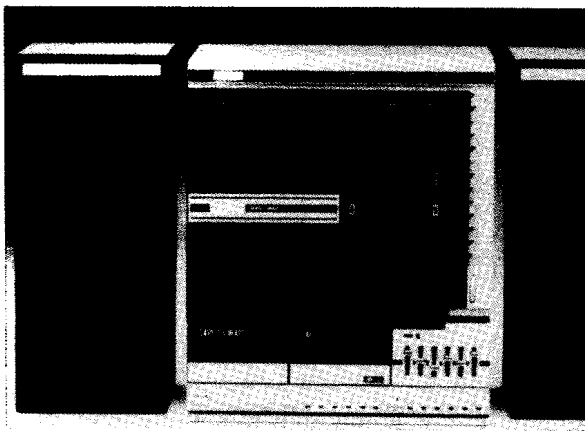
Manufacturer
Amstrad Consumer Electronics plc, Brentwood House, 169 Kings Road, Brentwood, Essex CM14 4EF. Tel: 0277 228888.

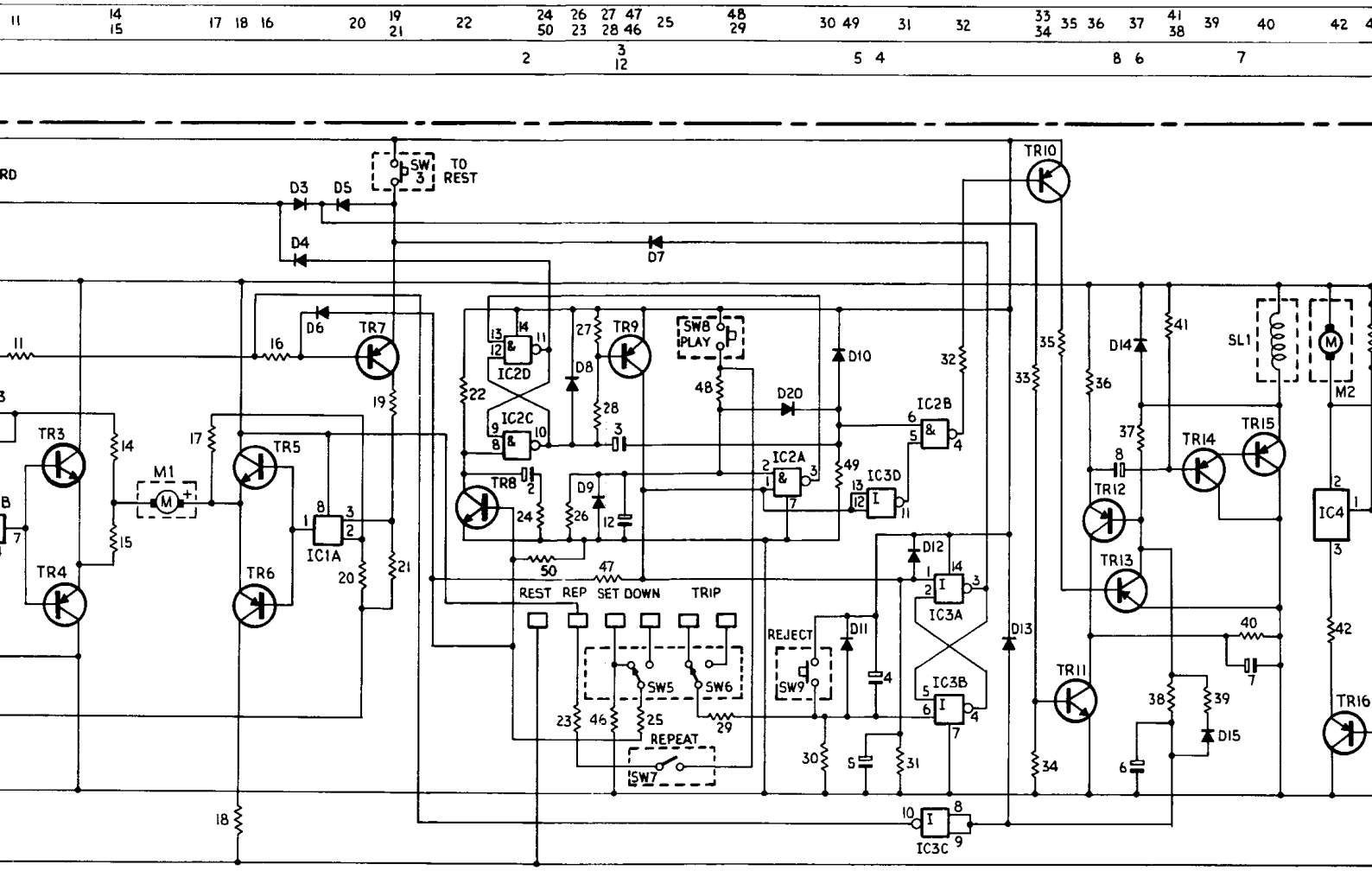
Safety components

All parts shown on the circuit diagrams with the BEAB hazard symbol are safety critical items and should be replaced only with items having an identical safety specification. These parts are:
Mains transformer T201.
Fuses FS201 and FS202.
Diodes D205-D208.
Capacitors C216-C219.
Resistors R43, R217 and R439.



TRAD SM103/104
ical stack modules
(Part 1)





Additional copies of this service chart, price 50p including postage, are available from: The Cashier, Business Press International, Sales and Distribution, Quadrant House, The Quadrant, Sutton, Surrey SM2 5AS. Most service chart back numbers are also available, price 50p.

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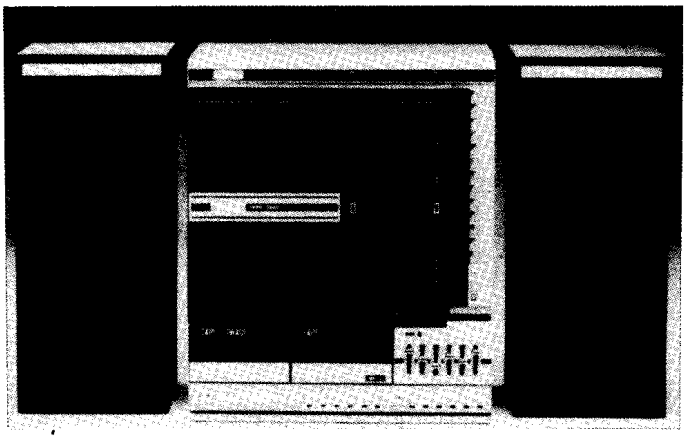

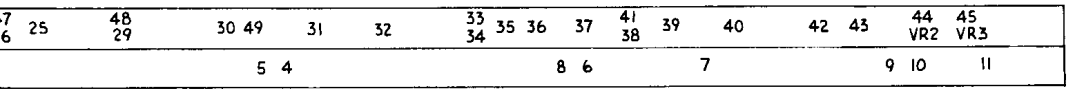

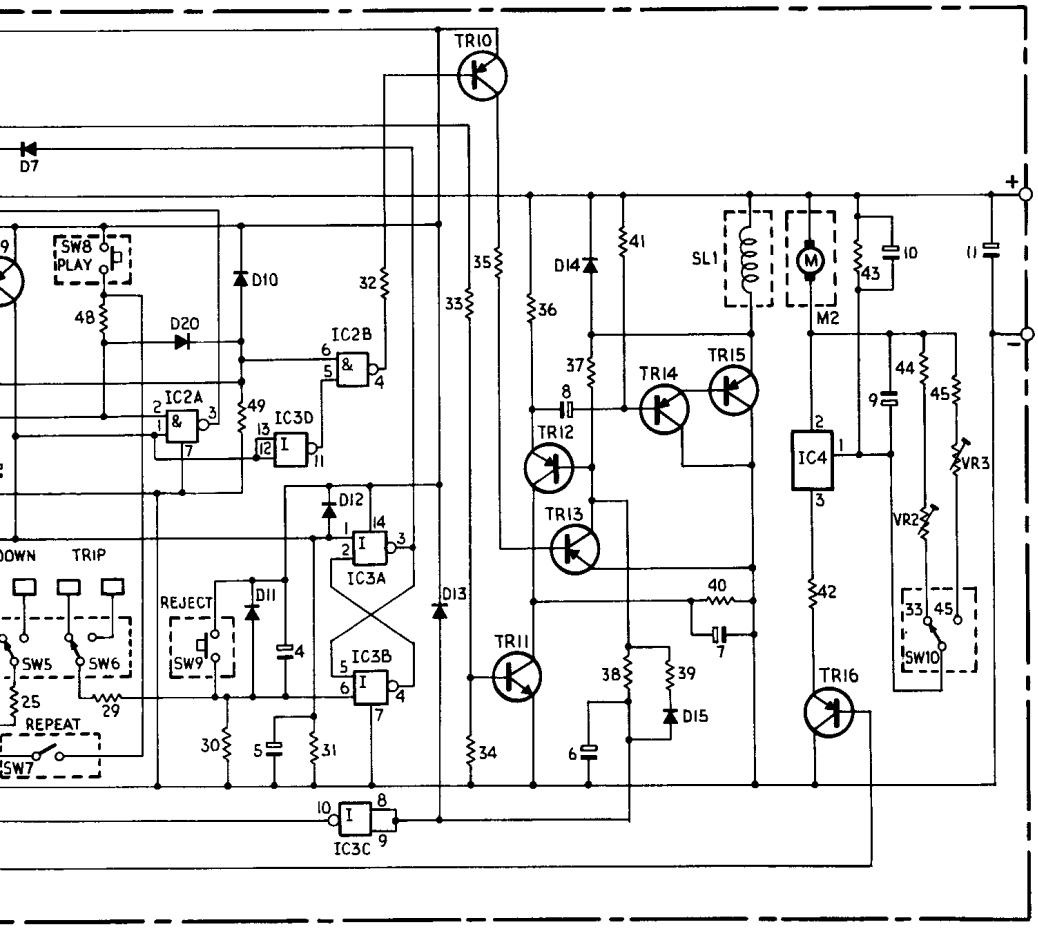

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RESISTORS

R1	270K	M2
R2	10k	M2
R3	1k8	M2
R4	560k	M2
R5	10k	L2
R6	2k7	L2
R7	8k2	L2
R8	6k8	L2
R9	22k	L1
R10	47k	L2
R11	56k	L2
R12	330k	L1
R13	22k	L1
R14	22k	L1
R15	10	L1
R16	56k	L2
R17	22k	L1
R18	560	L1
R19	15k	L2
R20	22k	L1
R21	22k	L1
R22	33k	M2
R23	10k	M1
R24	470	M2
R25	12k	M2
R26	100k	M2
R27	56k	L2
R28	6k8	M2
R29	10k	M2
R30	47k	L2
R31	47k	L2
R32	15k	M2
R33	33k	M2
R34	10k	L1
R35	1k	M2
R36	1k	M1
R37	68	M1
R38	1M	M1
R39	470	M1
R40	10k	L1
R41	6k8	M1
R43	470	M1
R44	680	M1
R45	330	M1
R46	47k	M2
R47	10k	L2
R48	1k	M2
R49	100k	M2
VR1	link	M2
VR2	2k2	M1
VR3	470	M2

CAPACITORS

C1	22u 10V	L1
C2	10u 40V	M2
C3	2u2 63V	M2
C4	1-u 40V	L2
C5	4u7 40V	L2
C6	4u7 40V	M2
C7	2u2 63V	M1
C8	33u 16V	M1
C9	2u2 63V	M1
C10	22u 10V	M1
C11	2200u 16V	L1
C12	10u 40V	M2

TRANSISTORS

TR1	2SC945	L2
TR2	2SA733P	L2
RE3	2SC2001L	L1
TR4	2SA9526	L1
TR5	2SC2001L	L1
TR6	2SA952L	L1
TR7	2SA733P	L2
TR8	2SC945	M2
TR9	2SA733P	L2
TR10	2SA733P	M2
TR11	2SC945	L1
TR12	2SA733P	L1
TR13	2SC2001L	M1
TR14	2SA952L	M1
TR15	2SB507P	L1
TR16	2SA952L	M1

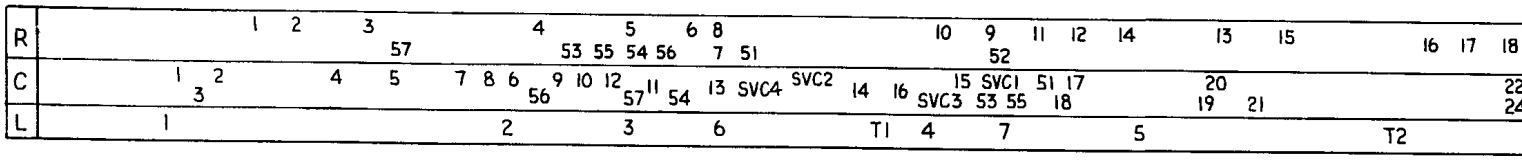
DIODES

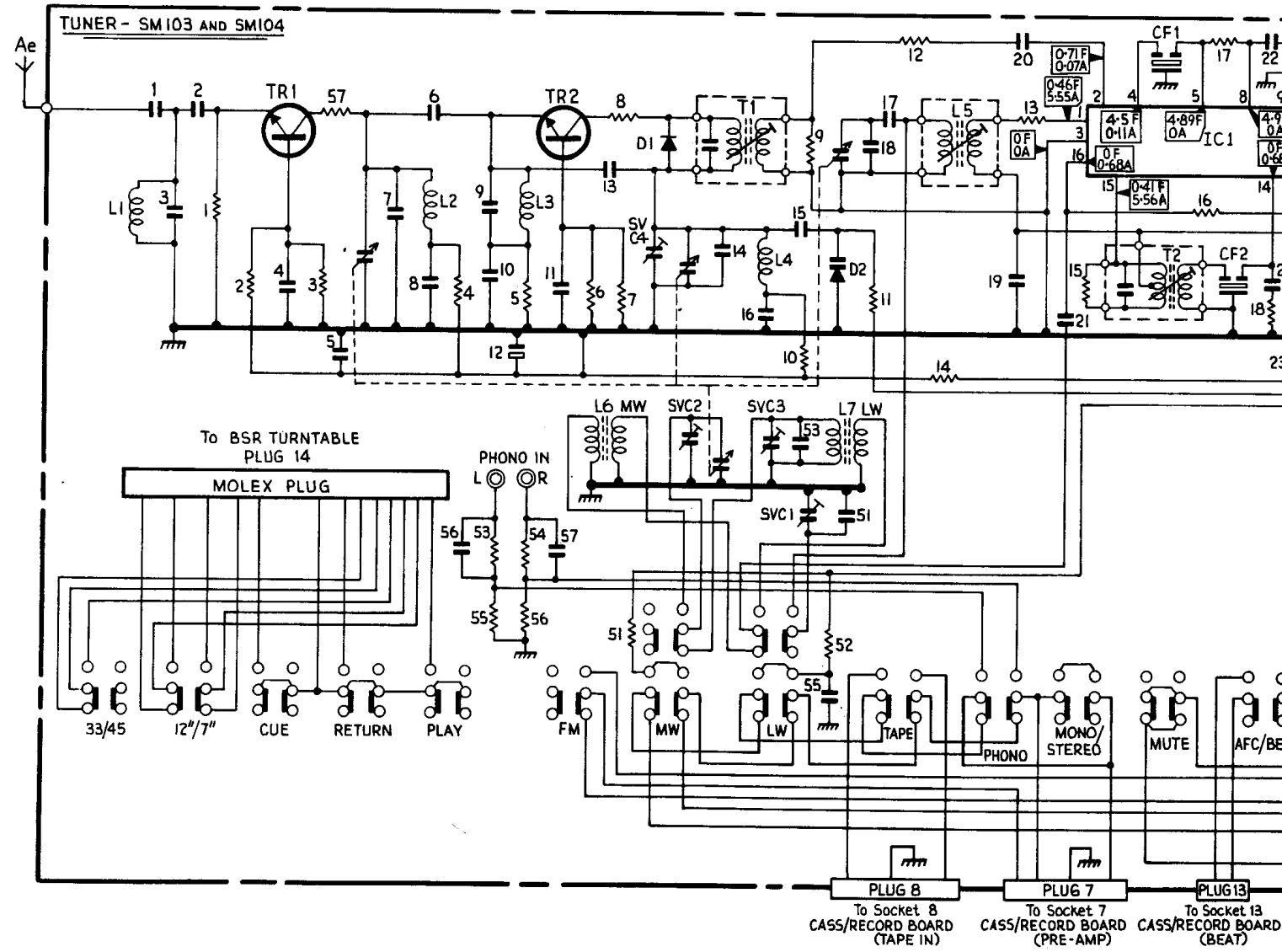
D1-15	1N4148L2/M2	
D20	1N4148	M2
ZD1	10V 0.5W Zener	L2
ZD2	3V3 0.5W	L1
ZD3	3V3 0.5W	L1

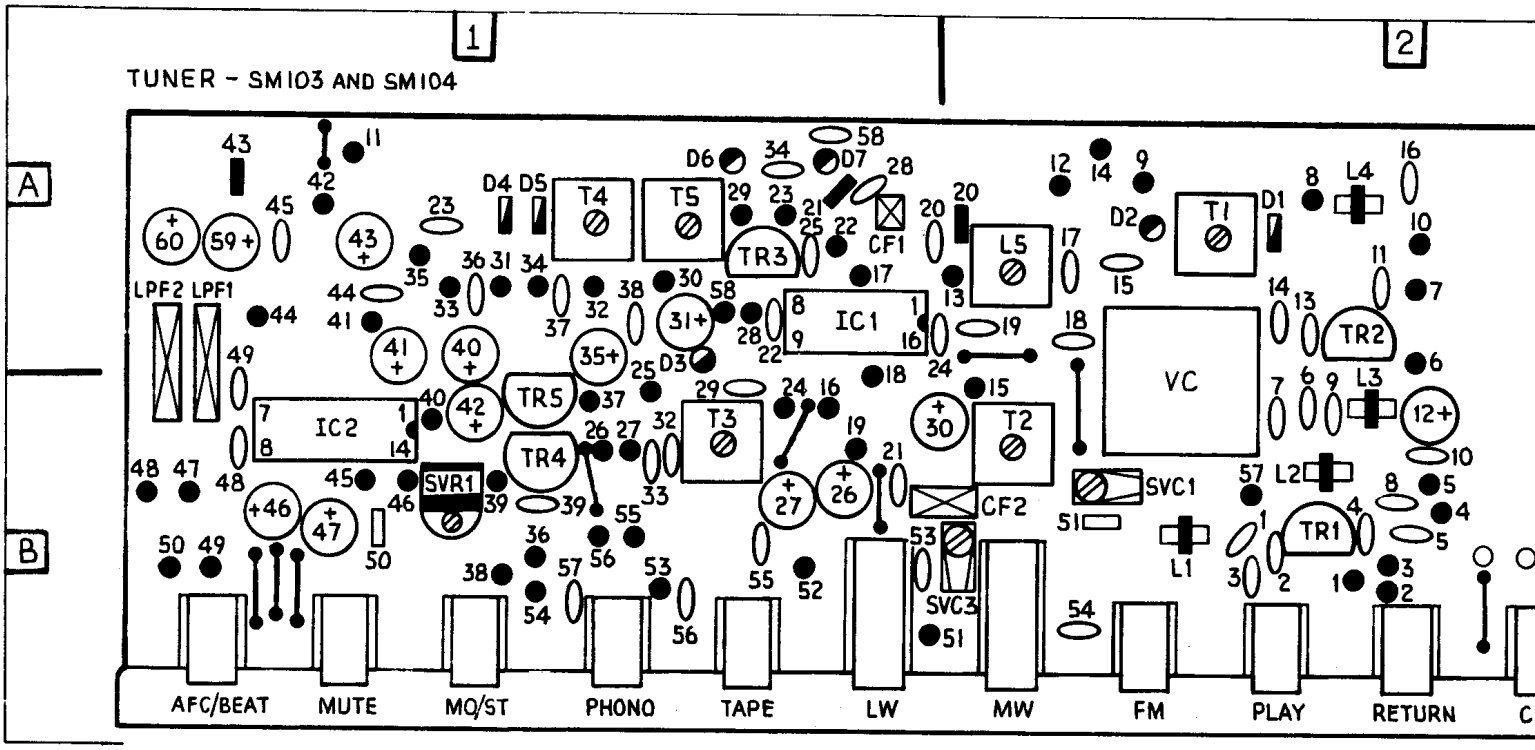
ICs

IC1	LM358N	L1
IC2	LP4011	M2
IC3	CD4001	L2
IC4	TDA1151	M1

ERT SERVICE CHART 2532 AMSTRAD SM103/104







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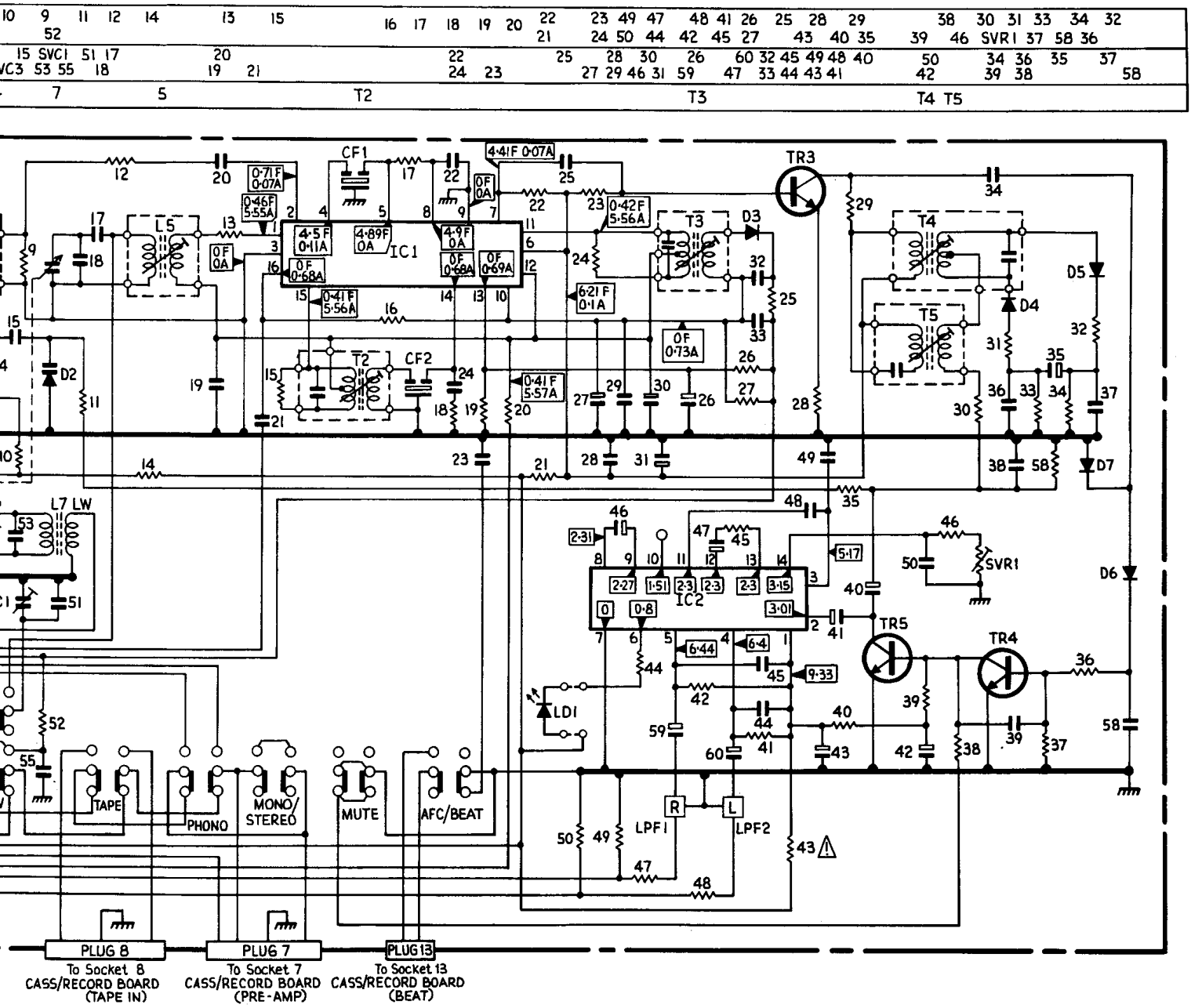

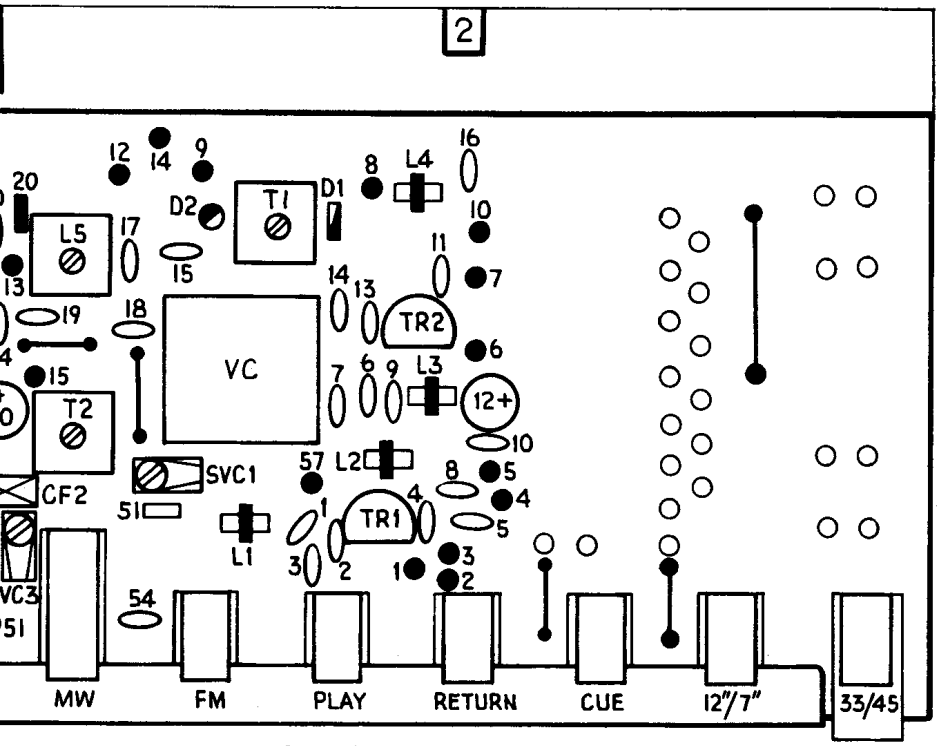

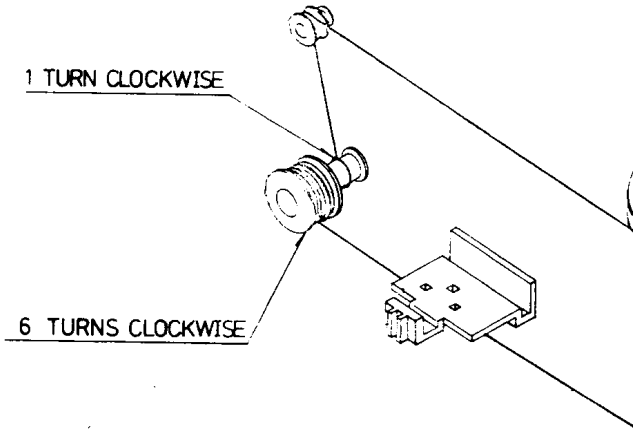

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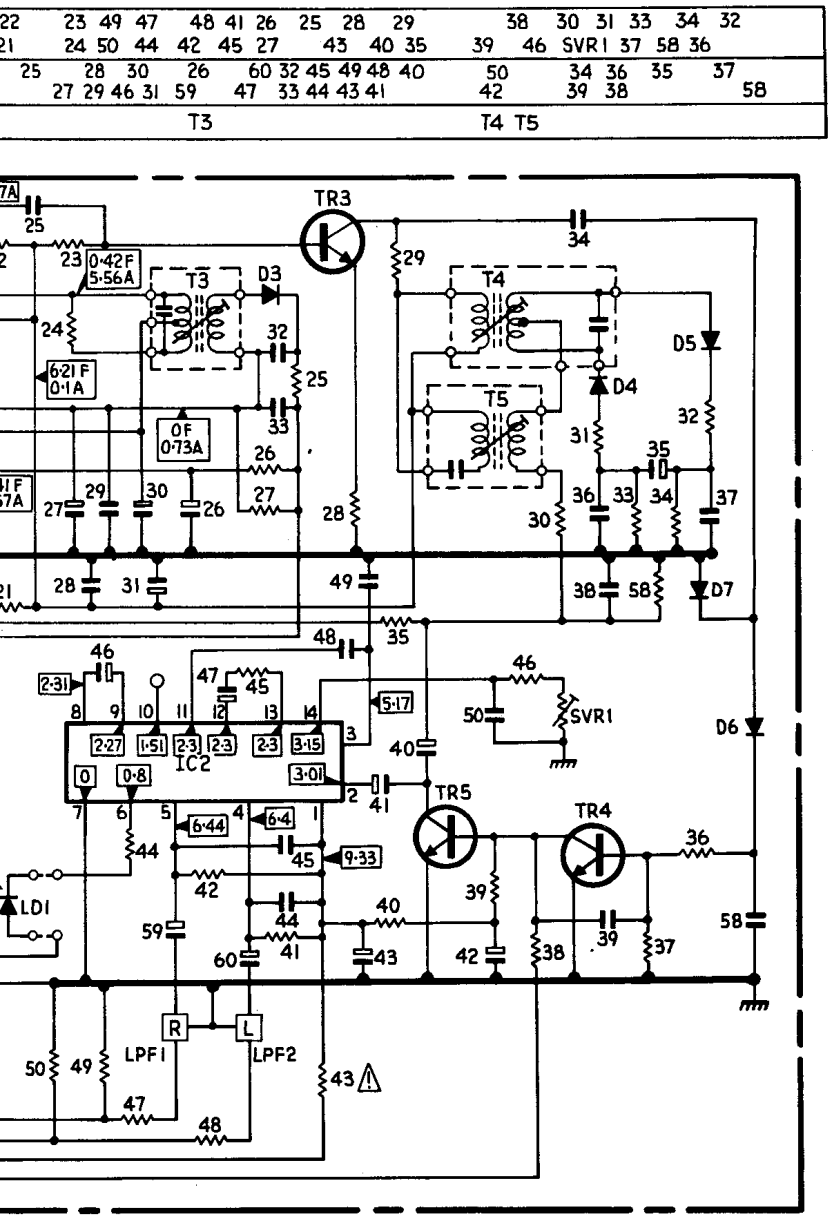
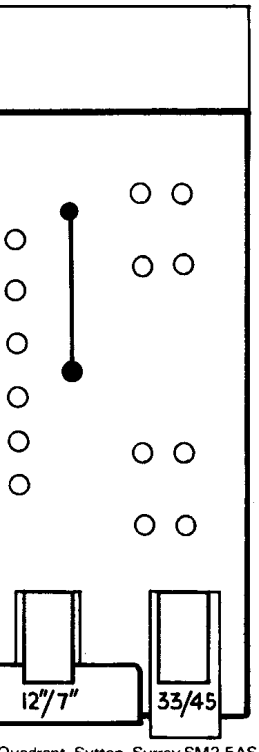
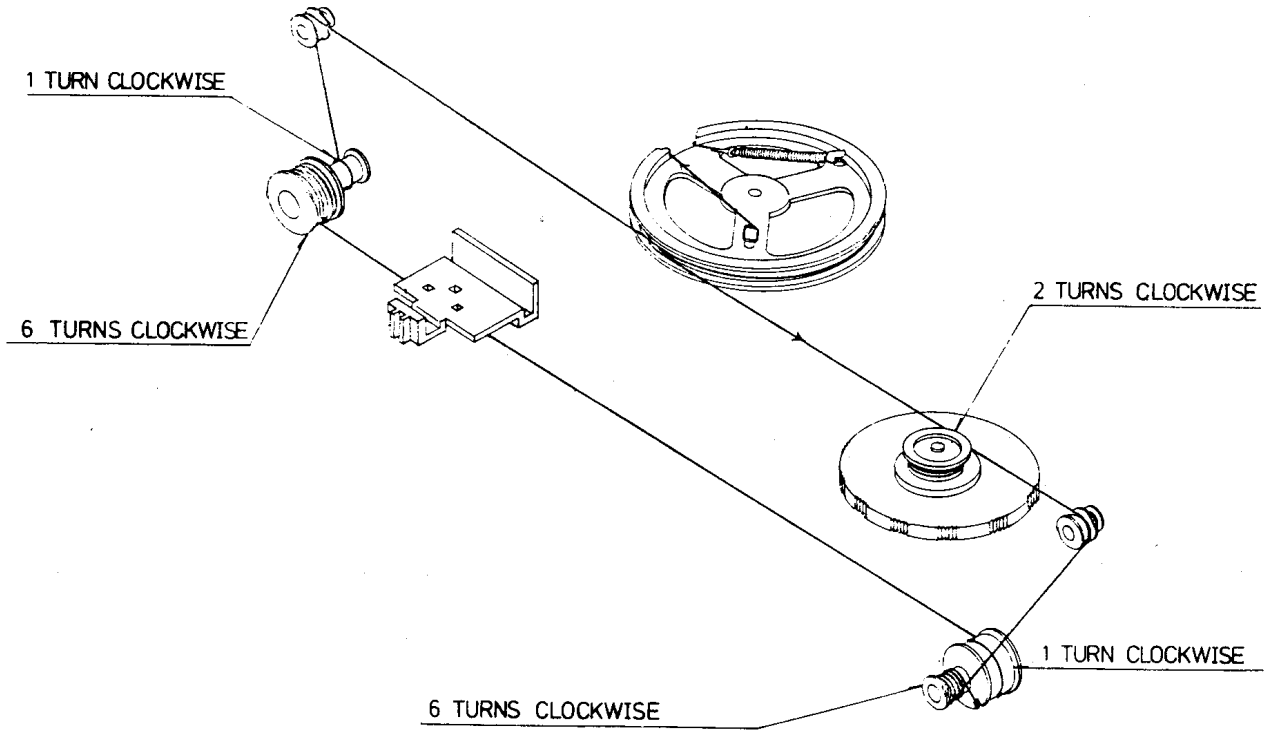


RESISTORS			CAPACITORS		
R1	680	B2	C1	50p	B2
R2	27k	B2	C2	20p	B2
R3	8k2	B2	C3	40p	B2
R4	1k	B2	C4	5n	B2
R5	2k2	B2	C5	20n	B2
R6	22k	A2	C6	5p	B2
R7	4k7	A2	C7	20p	B2
R8	47	A2	C8	20n	B2
R9	680	A2	C9	25p	B2
R10	2k2	A2	C10	500p	B2
R11	100k	A1	C11	5n	A2
R12	330	A2	C12	220u 16V	B2
R13	68	A2	C13	5p	A2
R14	470	A2	C14	18p	A2
R15	150k	B2	C15	5p	A2
R16	15k	B1	C16	20n	A2
R17	470	A1	C17	300p	A2
R18	2k7	A1	C18	15p	A2
R19	47k	B1	C19	40n	A2
R20	470	A1	C20	1n	A1
R21	220	A2	C21	10n	B1
R22	2k2	A1	C22	20n	A1
R23	100k	A1	C23	40n	A1
R24	22k	B1	C24	1n	A1
R25	2k2	B1	C25	1n	A1
R26	10k	B1	C26	47u 16V	B1
R27	4k7	B1	C27	47u 16V	B1
R28	68	A1	C28	40n	A1
R29	330	A1	C29	20n	B1
R30	100	A1	C30	220u 16V	B2
R31	1k	A1	C31	220u 16V	A1
R32	1k	A1	C32	10n	B1
R33	10k	A1	C33	10n	B1
R34	10k	A1	C34	100p	A1
R35	1M	A1	C35	10u 16V	A1
R36	220k	B1	C36	300p	A1
R37	68k	B1	C37	300p	A1
R38	330	B1	C38	100p	A1
R39	22k	B1	C39	100n	B1
R40	1k	B1	C40	1u 50V	A1
R41	3k8	A1	C41	1u 50V	A1
R42	3k9	A1	C42	220u 16V	B1
R43	47	A1	C43	220u 16V	A1
R44	680	A1	C44	10n	A1
R45	470	B1	C45	10n	A1
R46	16k	B1	C46	0u47 50V	B1
R47	19k	B1	C47	0u47 50V	B1
R48	10k	B1	C48	40n	B1
R49	27k	B1	C49	1n	A1
R50	27k	B1	C50	470p	B1
R51	10k	B2	C51	200p	B2
R52	3k9	B1	C53	30p	B2
R53	1M	B1	C54	4n7	B2
R54	1M	B1	C55	4n7	B1
R55	220k	B1	C56	7p	B1
R56	220k	B1	C57	7p	B1
R57	47	B2	C58	100n	A1
R58	68k	A1	C59	0u47 50V	A1
SVR1	5k	B1	C60	0u47 50V	A1





Quadrant, Sutton, Surrey SM2 5AS by Williams Press (Berks) Ltd, Maidenhead, Berks.

Supplement to Electrical and Radio Trading. June 12. 1986

ERT SERVICE CHART

2533

AMSTRAD SM10

Vertical stack mo

(Part 2)

Alignment

AM circuits (IF)

Connect output of signal generator to coupling coil placed near to ferrite rod aerial. Connect output meter across speaker terminals.

Switch radio to MW band and tune to the lower end of the scale. Inject a signal of 465kHz AM and adjust the core of T2 for maximum output, reducing input as necessary to avoid AGC action.

AM circuits (RF)

With the test equipment set up as for IF alignment, tune receiver to the 550kHz position on the scale. Inject a signal of 550kHz and adjust the core of oscillator coil L5 for maximum output. Retune receiver to 1600kHz on scale, inject a signal of 1600kHz and adjust oscillator trimmer SVC1 for maximum output.

Inject a signal of 600kHz, tune in the signal and adjust the position of L6 on the ferrite rod for peak indication on the tuning LEDs. Inject a signal of 1400kHz, tune in the signal and adjust trimmer SVC2 on tuning gang for maximum reading on the output meter.

Repeat the MW RF alignment steps until no further improvement can be obtained.

Switch unit to LW band and tune to the 155 scale mark. Inject a signal of 155kHz. Adjust position of LW coil L7 on ferrite rod for maximum reading on output meter.

Inject a signal of 260kHz, tune in the signal and adjust trimmer SVC3 for maximum output. Reseal position of L7 on ferrite rod.

Repeat the above steps until no further improvement can be obtained.

FM circuits (IF)

Connect sweep generator to junction of C17/C18 and earth. Connect oscilloscope to junction R30/C38 and earth. Set receiver to FM Stereo.

Inject a sweep signal centred on 10·7MHz and adjust the cores of L5, T3, T4 and T5 to obtain symmetrical S-curve.

FM circuits (RF)

Connect signal generator to aerial socket. Tune receiver to 88MHz mark on scale. Inject a signal of 88MHz and slightly adjust the oscillator coil L4 for peak display on the oscilloscope. Retune receiver to 108MHz mark on scale. Inject a signal of 108MHz and adjust oscillator trimmer SVC4 for peak display on 'scope.

Recheck 88MHz alignment; if incorrect, repeat L4 and SVC4 steps until alignment is accurate.

Inject a signal of 90MHz, tune in the signal and adjust L3 for maximum output. Inject a signal of 108MHz, tune in the signal and then adjust L2 for maximum output.

Check alignment by placing a piece of ferrite over L303, which should cause the LED reading to fall.

Dismantle all test equipment.

Stereo decoder

Tune receiver to a strong stereo broadcast transmission. Adjust the preset control SVR1 until a point is reached at which the stereo beacon LED illuminates. Then switch to FM Mono and back to FM Stereo, ensuring that the beacon LED re-lights. If it does not do so, readjust SVR1 accordingly.

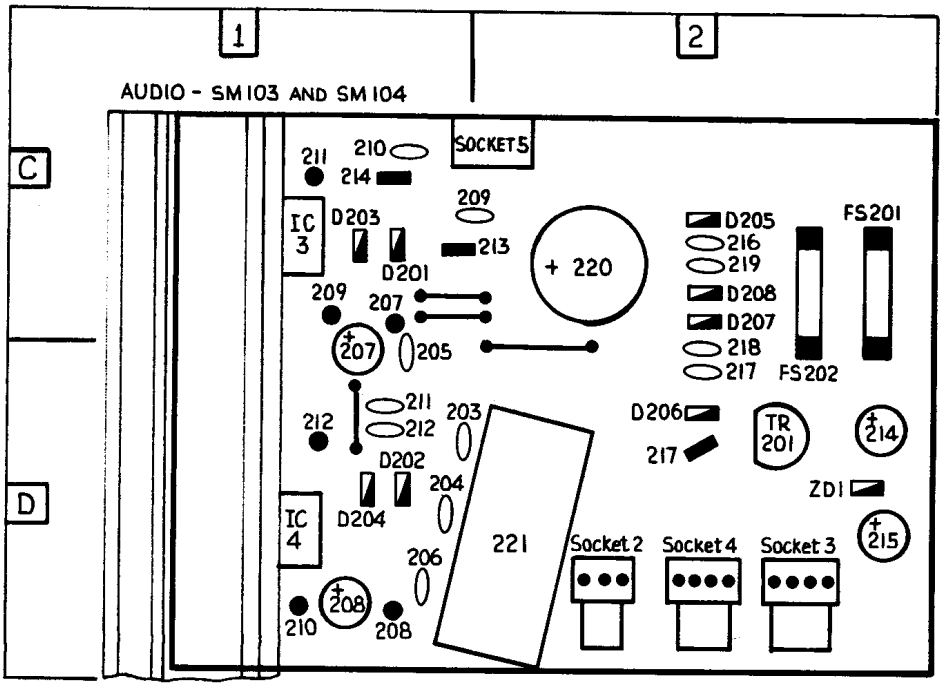
Tape recorder adjustments

Connect a double-beam oscilloscope to the loudspeaker terminals. Insert a head azimuth test tape with 6·8kHz signal. Adjust the head azimuth adjusting screw, for maximum amplitude output on both channels, ensuring that both signals are in phase.

Remove oscilloscope and test tape.

To check tape speed, connect a frequency counter to the loudspeaker terminals. Insert a 1kHz test cassette and play it. Adjust the central screw on the motor to obtain the correct frequency, using a non-metallic trimming tool.

RESISTORS				R326	3k3
R301	5k6	G1		R327	3k3
R302	5k6	G1		R328	3k3
R303	5k6	H1		R329	470
R304	5k6	H1		R330	120
R305	6k8	G1		R331	120
R306	6k8	G1		R332	390
R307	1k2	G1		R333	390
R308	1k2	G1		VR1	110k
R309	1k2	H1		VR2	100k
R310	1k2	H1		VR3	100k
R311	3k9	G1		VR4	100k
R312	4k7	G1		VR5	50k
R313	680	G2		VR6	50k
R314	680	G2		SVR2	200
R315	680	H2		SVR3	200
R316	680	H2		**CAPACITORS**	
R317	1k5	G2		C301	10u
R318	1k5	G2		C302	10u
R319	3k9	G2		C303	33n
R320	3k9	G2		C304	33n
R321	330k	H2		C305	68n
R322	330k	H2		C306	68n
R323	330	H1		C307	33n
R324	330	H1		C308	33n
R325	3k3	H2		C309	20n

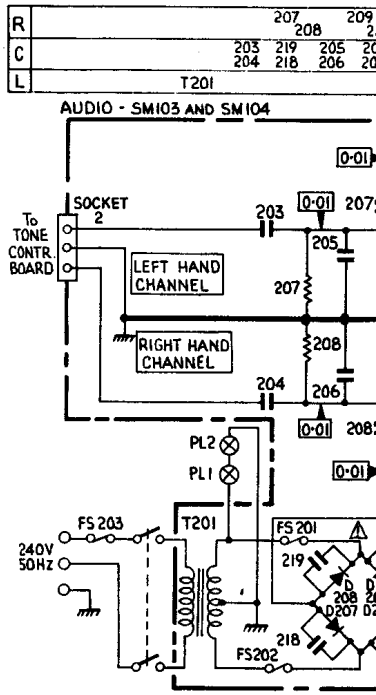


STRAD SM103/104

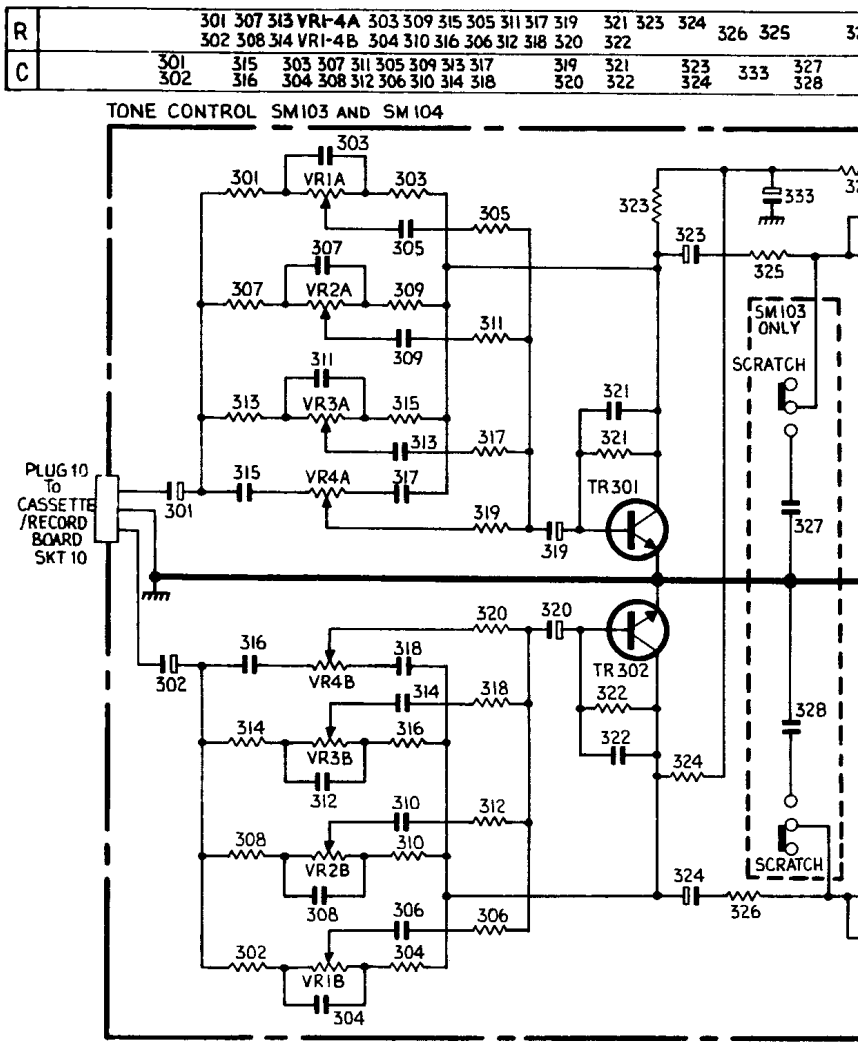
Vertical stack module

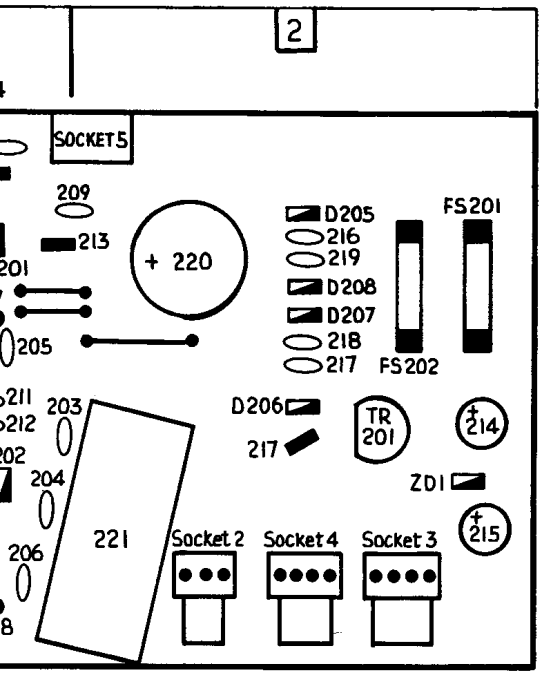
(Part 2)

RESISTORS			R326	3k3	H2	C310	20n	G1
R301	5k6	G1	R327	3k3	H2	C311	27n	G2
R302	5k6	G1	R328	3k3	H2	C312	27n	G2
R303	5k6	H1	R329	470	H1	C313	8n2	G2
R304	5k6	H1	R330	120	H1	C314	8n2	G2
R305	6k8	G1	R331	120*	H1	C315	3n3	G2
R306	6k8	G1	R332	390*	H1	C316	3n3	G2
R307	1k2	G1	R333	390*	H1	C317	3n3	H2
R308	1k2	G1	VR1	110k(x2)	G1	C318	3n3	H2
R309	1k2	H1	VR2	100k(x2)	G1	C319	1u 50V	H2
R310	1k2	H1	VR3	100k(x2)	G1	C320	1u 50V	H2
R311	3k9	G1	VR4	100k(x2)	G2	C321	500p	H2
R312	4k7	G1	VR5	50k	G2	C322	500p	H2
R313	680	G2	VR6	50k	G2	C323	10u 16V	H2
R314	680	G2	SVR2	200*	H1	C324	10u 16V	H2
R315	680	H2	SVR3	200*	H1	C325	22n	H2
R316	680	H2	**CAPACITORS**			C326	22n	H2
R317	1k5	G2	C301	10u 16V	G2	C327	15n**	H2
R318	1k5	G2	C302	10u 16V	G2	C328	15n**	H2
R319	3k9	G2	C303	33n	H1	C329	1n5	H2
R320	3k9	G2	C304	33n	H1	C330	1n5	H2
R321	330k	H2	C305	68n	G1	C331	100n	H2
R322	330k	H2	C306	68n	G1	C332	100n	H2
R323	330	H1	C307	33n	G1	C333	220u	H1
R324	330	H1	C308	33n	G1	*Model SM104 only		
R325	3k3	H2	C309	20n	G1	**Model SM103 only		



RESISTORS		
R207	100k	C1
R208	100k	D1
R209	1k2	C1
R210	1k2	D1
R211	82k	C1
R212	82k	D1
R213	1	C1
R214	1	C1
R217	560	D2





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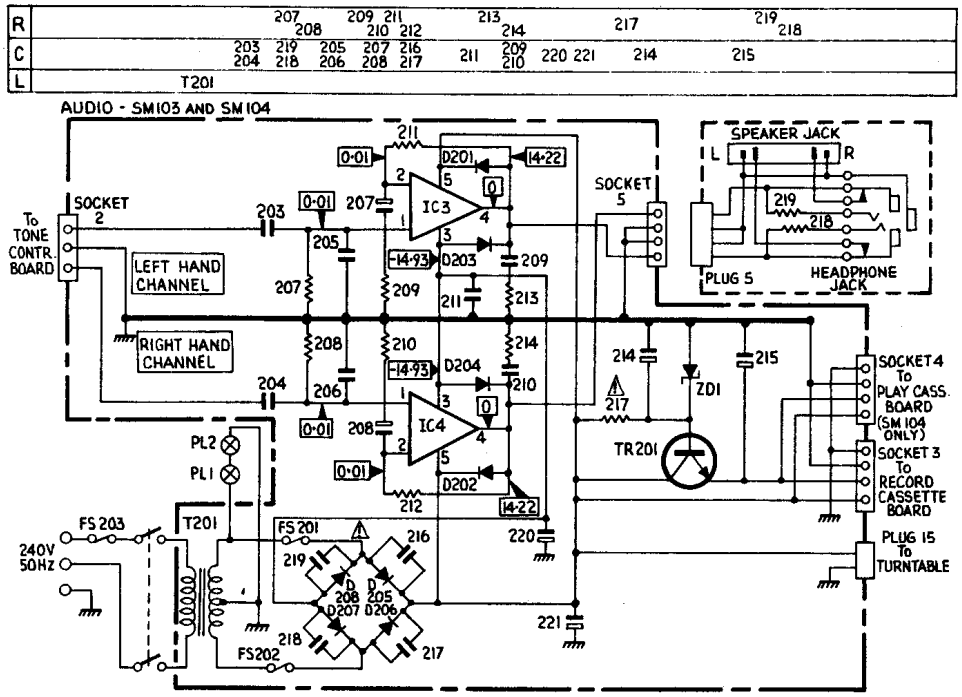


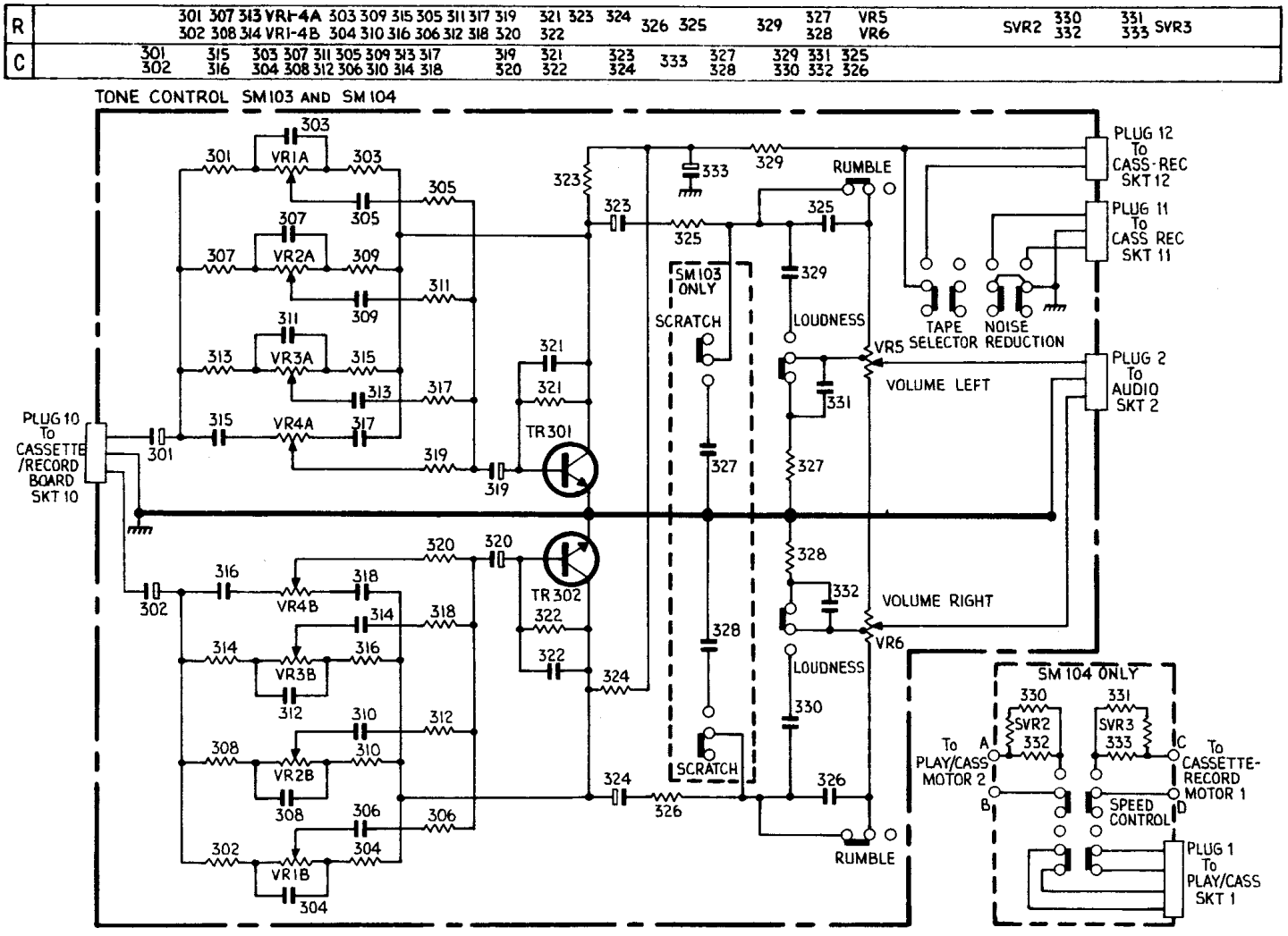
H2	C310	20n	G1
H2	C311	27n	G2
H2	C312	27n	G2
H1	C313	8n2	G2
H1	C314	8n2	G2
H1	C315	3n3	G2
H1	C316	3n3	G2
H1	C317	3n3	H2
G1	C318	3n3	H2
G1	C319	1u 50V	H2
G1	C320	1u 50V	H2
G2	C321	500p	H2
G2	C322	500p	H2
G2	C323	10u 16V	H2
H1	C324	10u 16V	H2
H1	C325	22n	H2
	C326	22n	H2
G2	C327	15n**	H2
G2	C328	15n**	H2
H1	C329	1n5	H2
H1	C330	1n5	H2
G1	C331	100n	H2
G1	C332	100n	H2
G1	C333	220u	H1
G1	*Model SM104 only		
G1	**Model SM103 only		

RESISTORS

R207	100k	C1
R208	100k	D1
R209	1k2	C1
R210	1k2	D1
R211	82k	C1
R212	82k	D1
R213	1	C1
R214	1	C1
R217	560	D2
R218	470	—
R219	470	—

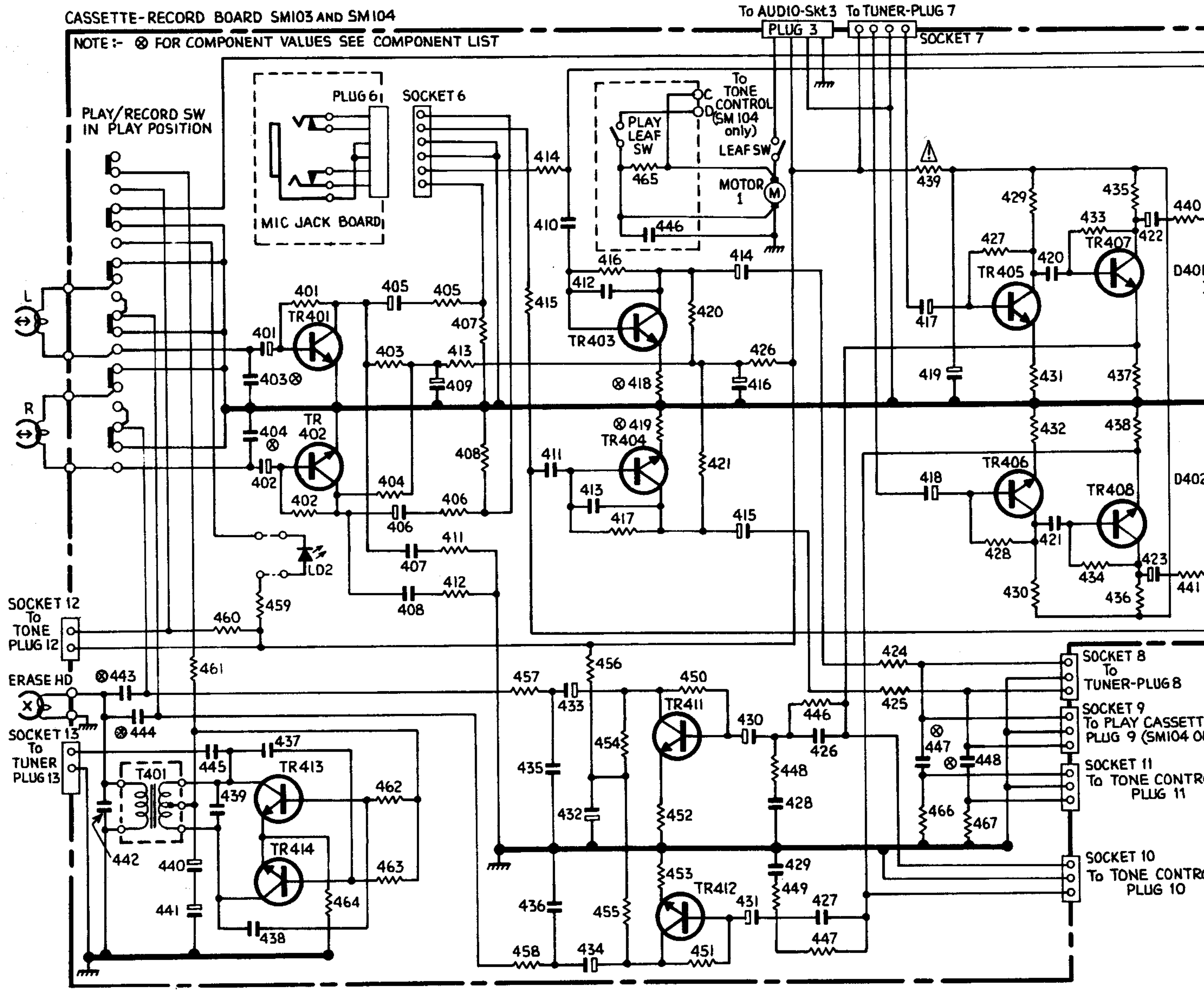
CAPACITORS

C203	100n	D1
C204	100n	D1
C205	1n	D1
C206	1n	D1
C207	10u16V	D1
C208	10u 16V	D1
C209	100n	C1
C210	100n	C1
C211	200n	D1
C212	200n	D1
C214	100u 16V	D2
C215	470u 16V	D2
C216	100n	C2
C217	100n	D2
C218	100n	D2
C219	100n	C2
C220	3300u 20V	C2
C221	3300u 20V	C2



ERT SERVICE CHART 2533 AMSTRAD SM103/104

R	461 460 459 401 402 464 462 463 403 404 405 406 411 412 413 407 408 415 457 414 458 456 416 417 454 455 465 418 419 452 453 420 421 450 451 426 448 449 446 447 42 425 439 428 466 427 467 429 431 432 430 433 434 435 437 438 436 440 441
C	442 443 444 440 441 445 439 438 437 403 404 401 402 405 406 407 408 409 435 436 433 434 410 411 432 412 413 446 430 431 414 415 416 428 429 426 427 447 417 418 419 448 420 421 422 423
L	T401



RESISTORS			R432	330	E2	R463	82k	E1	C424	4u7 50V	F2
R401	4M7	F1	R433	330k	E2	R464	5	E1	C425	4u7 50V	F1
R402	4M7	F1	R434	330k	E2	R465	1k2	—	C426	1n	E2
R403	27k	F1	R435	470	E2	R466	220k	F2	C427	1n	E2
R404	27k	F1	R436	470	E2	R467	220k	F2	C428	10n	E2
R405	22k	F1	R437	330	E2	**CAPACITORS**			C429	10n	F2
R406	22k	F1	R438	330	E2	C401	4u7 50V	F1	C430	4u7 50V	F1
R407	18k	F1	R439	220	E2	C402	4u7 50V	F1	C431	4u7 50V	F2
R408	18k	F2	R440	3k9	E2	C403	1n5*	F1	C432	220u 16V	F2
R411	1k	F1	R441	3k9	E2	C403	1n**	F1	C433	4u7 50V	E1
R412	1k	F1	R442	100k	F2	C404	1n5*	F1	C434	4u7 50V	F1
R413	1k	F2	R443	100k	F2	C404	1n**	F1	C435	4n7	E1
R414	10k	F2	R444	2k2	F2	C405	4u7 50V	F1	C436	4n7	F1
R415	10k	F2	R445	2k2	F2	C406	4u7 50V	F1	C437	1n	E1
R416	2M2	F2	R446	39k	F2	C407	10n	F1	C438	1n	E1
R417	2M2	F2	R447	39k	E2	C408	10n	F1	C439	47n	E1
R418	180*	F2	R448	15k	F2	C409	100u 16V	F1	C440	10u 16V	E1
R418	100**	F2	R449	15k	E2	C410	10n	F2	C441	10u 16V	E1
R419	180*	F2	R450	560k	F1	C411	10n	F1	C442	3n3	E1
R419	100**	F2	R451	560k	F2	C412	40p	F2	C443	150p*	F1
R420	5k6	F2	R452	100	F1	C413	40p	F1	C443	120p**	F1
R421	5k6	F2	R453	100	F2	C414	4u7 50V	F2	C444	150p*	F1
R423	27k	F2	R454	1k5	E1	C415	4u7 50V	F2	C444	120p**	F1
R424	33k	F2	R455	1k5	F2	C416	220u 16V	F2	C445	47n	E1
R425	33k	F2	R456	470	E1	C417	1u 50V	E2	C446	10n	—
R426	1k5	F1	R457	15k	E1	C418	1u 50V	E2	C447	3n9*	F2
R427	1M	E2	R458	15k	F1	C419	220u 16V	E2	C447	8n2**	F2
R428	1M	E2	R459	1k	E1	C420	100n	E1	C448	3n9*	F2
R429	3k9	E2	R460	150	F1	C421	100n	E2	C448	8n2**	F2
R430	3k9	E2	R461	10	E1	C422	0u47 50V	E2	*Model SM103 only		
R431	330	E2	R462	82k	E1	C423	0u47 50V	E2	**Model SM104 only		

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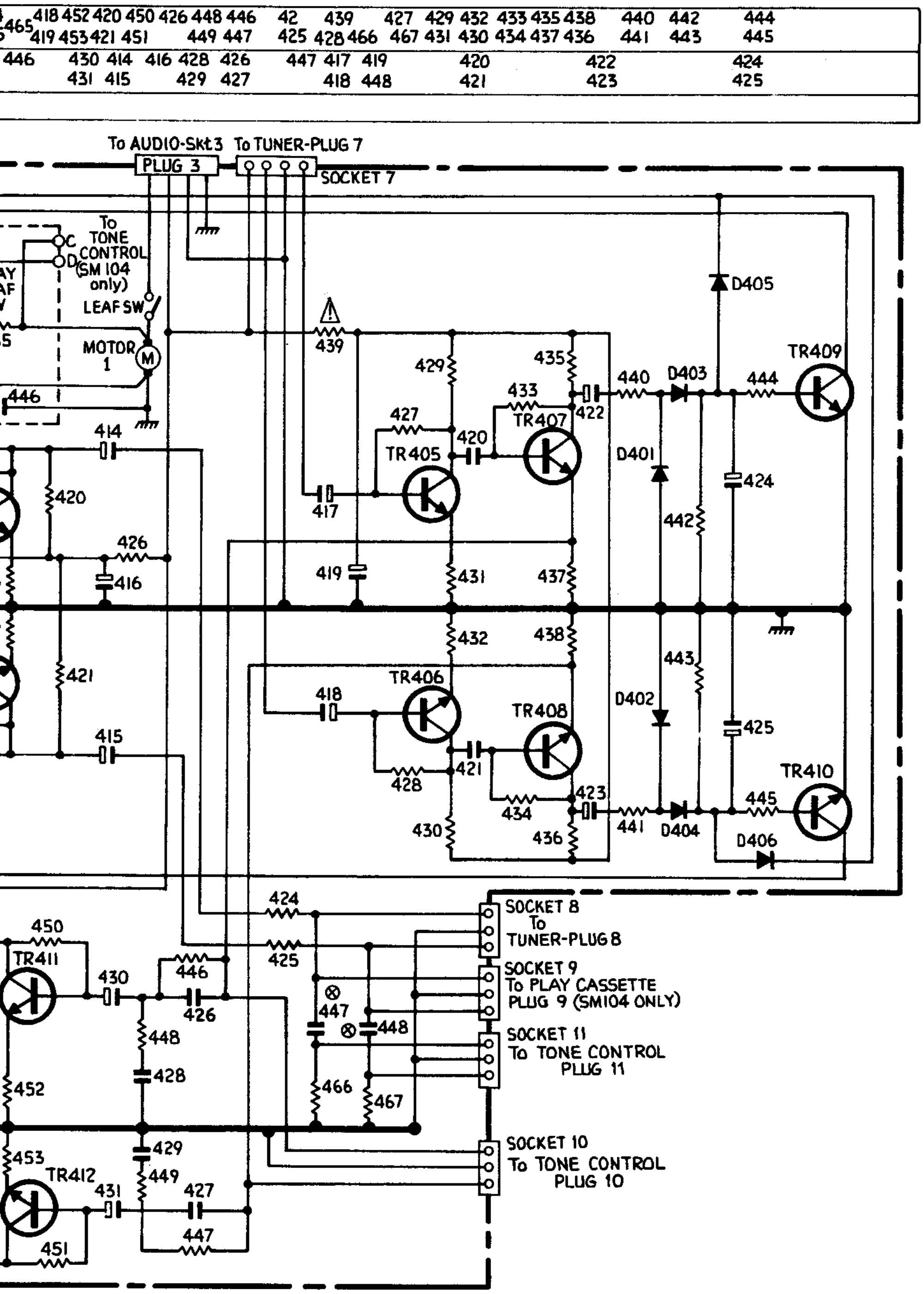

E1	C424	4u7 50V	F2
E1	C425	4u7 50V	F1
—	C426	1n	E2
F2	C427	1n	E2
F2	C428	10n	E2
	C429	10n	F2
F1	C430	4u7 50V	F1
F1	C431	4u7 50V	F2
F1	C432	220u 16V	F2
F1	C433	4u7 50V	E1
F1	C434	4u7 50V	F1
F1	C435	4n7	E1
F1	C436	4n7	F1
F1	C437	1n	E1
F1	C438	1n	E1
F1	C439	47n	E1
F1	C440	10u 16V	E1
F2	C441	10u 16V	E1
F2	C442	3n3	E1
F2	C443	150p*	F1
F1	C443	120p**	F1
F2	C444	150p*	F1
F2	C444	120p**	F1
F2	C445	47n	E1
E2	C446	10n	—
E2	C447	3n9*	F2
E2	C447	8n2**	F2
E1	C448	3n9*	F2
E2	C448	8n2**	F2
E2	*Model SM103 only		
E2	**Model SM104 only		

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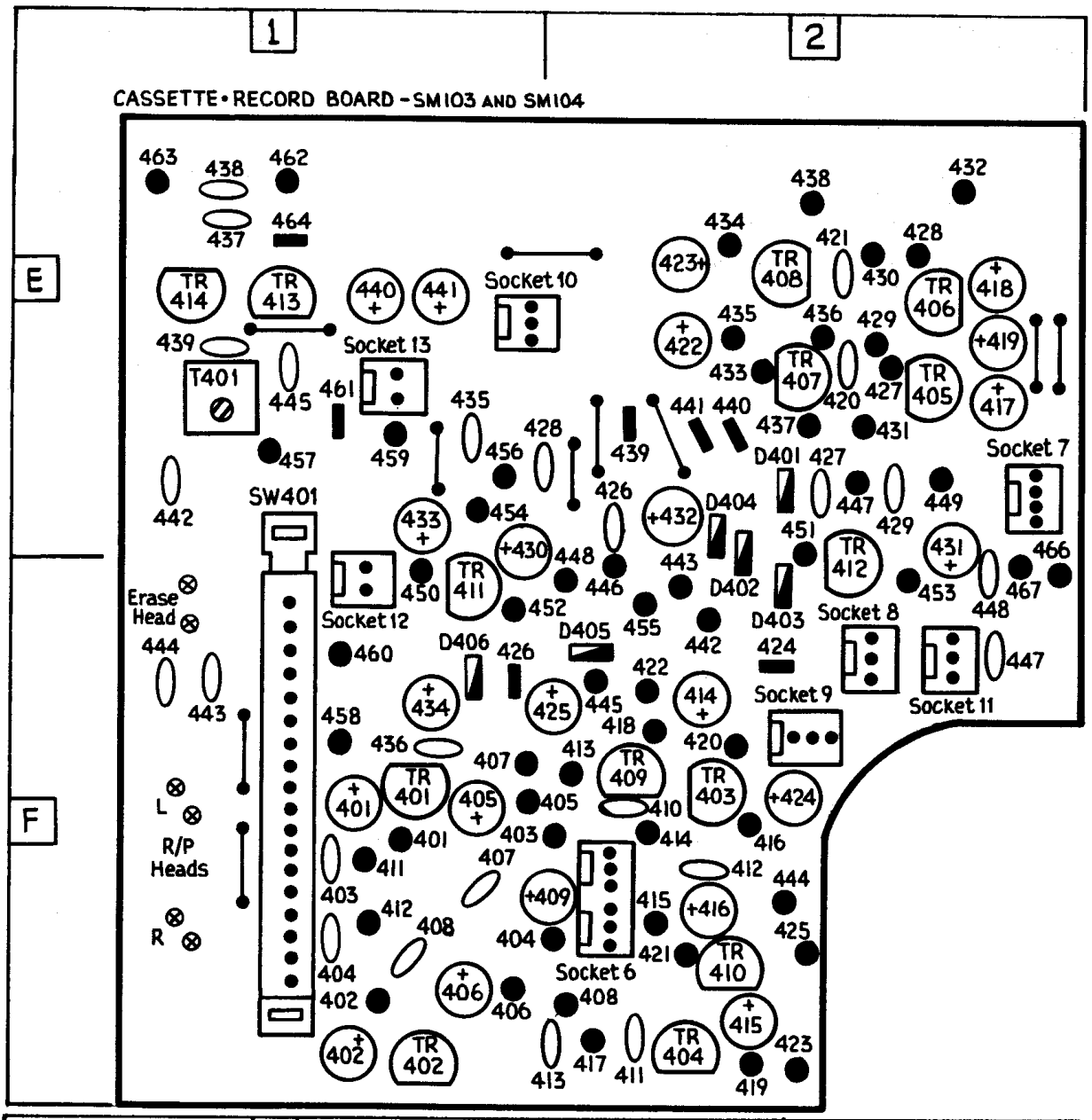

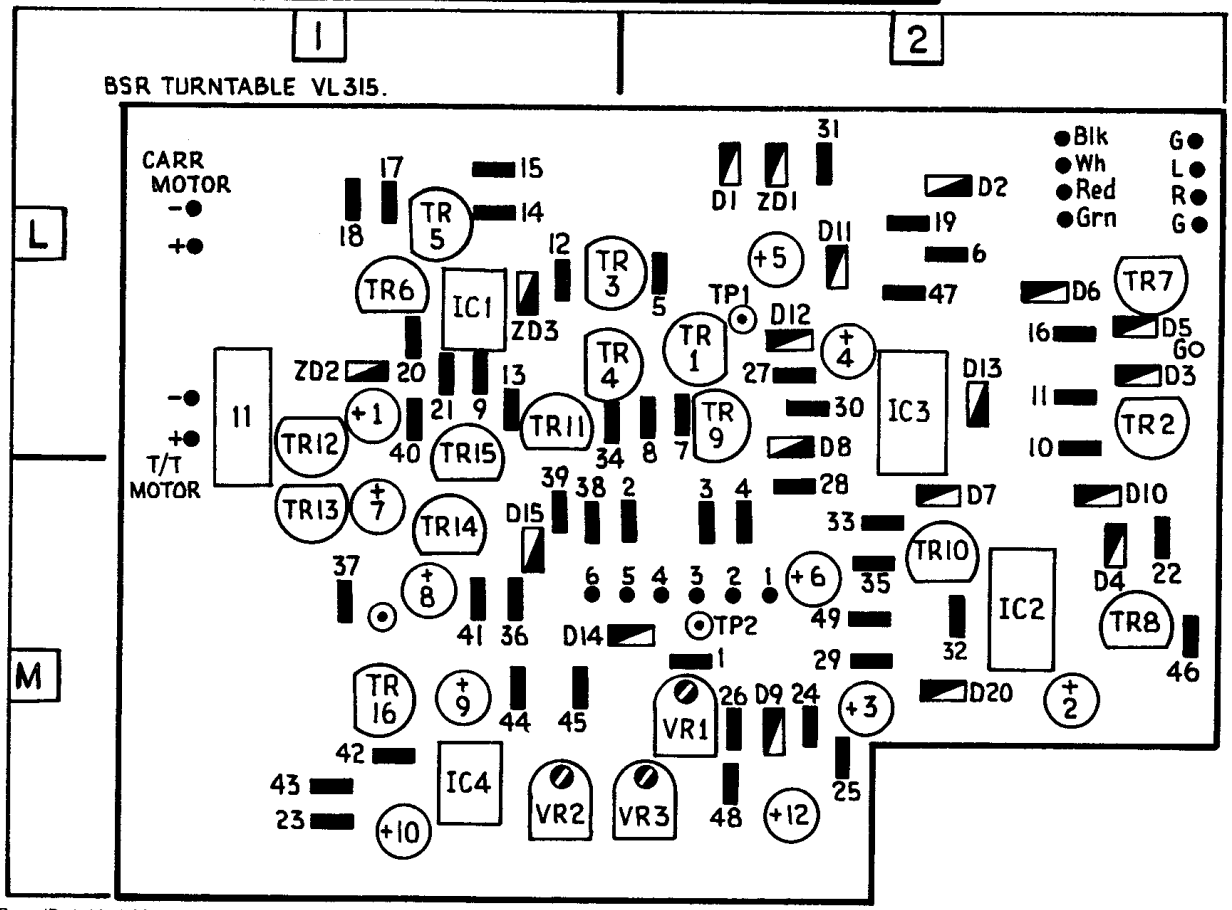

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Supplement to Electrical and Radio Trading, June 19, 1986

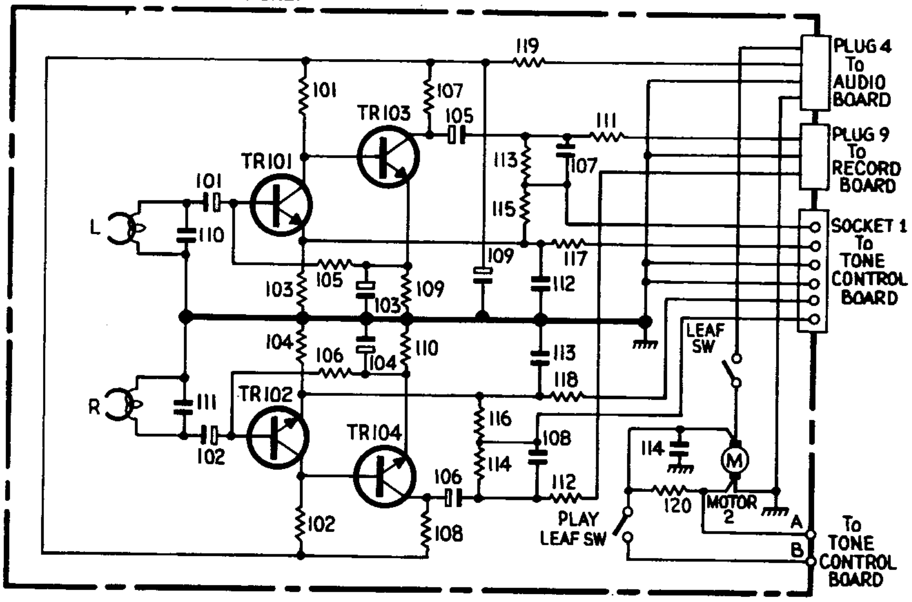
ERT SERVICE CHART

AMSTRAD SM10
Vertical stack mo
(Part 3)

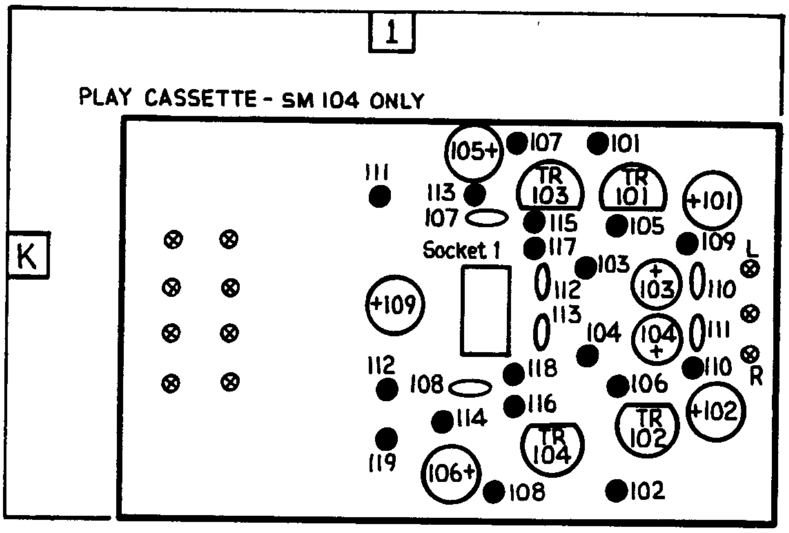
2534

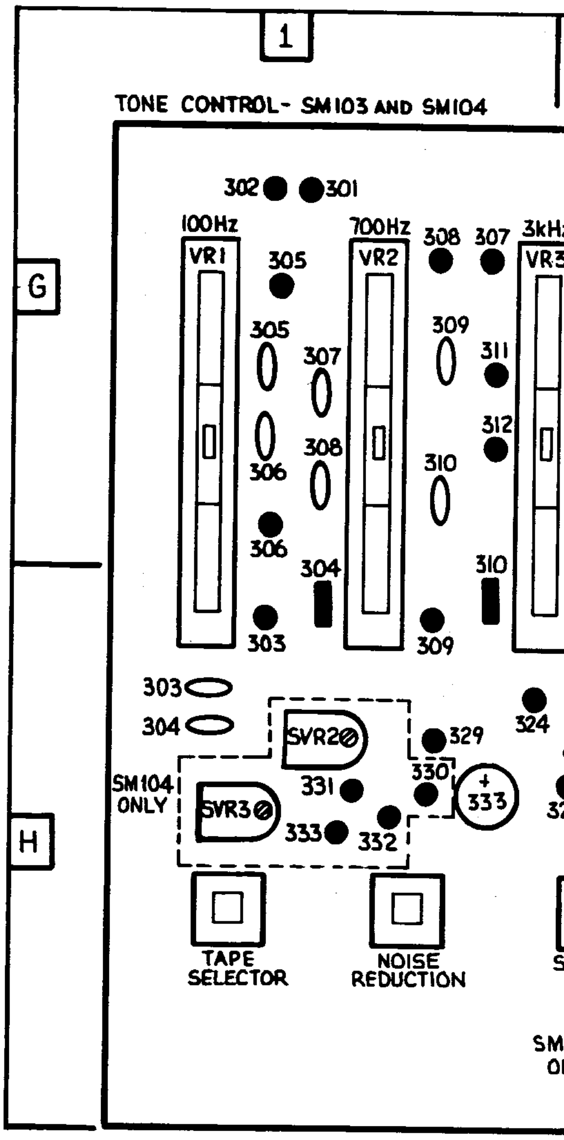
R			101 102	103 104	105 106	109 110	107 108	116 114	113 115	119	117 118	111 112	120
C	110 111	101 102			103 104		105 106	109	112 113		107 108		114

PLAY CASSETTE - SM 104 ONLY



RESISTORS								
R101	33k	K1	R113	4M7	K1	C102	1u 50V	K1
R102	33k	K1	R114	4M7	K1	C103	10u 16V	K1
R103	470	K1	R115	82k	K1	C104	10u 16V	K1
R104	470	K1	R116	82k	K1	C105	10u 16V	K1
R105	330	K1	R117	10k	K1	C106	10u 16V	K1
R106	330	K1	R118	10k	K1	C107	1n5	K1
R107	3k9	K1	R119	470	K1	C108	1n5	K1
R108	3k9	K1	R120	1k2	–	C109	220u 16V	K1
R109	1k5	K1				C110	1n	K1
R110	1k5	K1				C111	1n	K1
R111	100k	K1	CAPACITORS			C112	27n	K1
R112	100k	K1	C101	1u50V	K1	C113	27n	K1
						C114	10n	–





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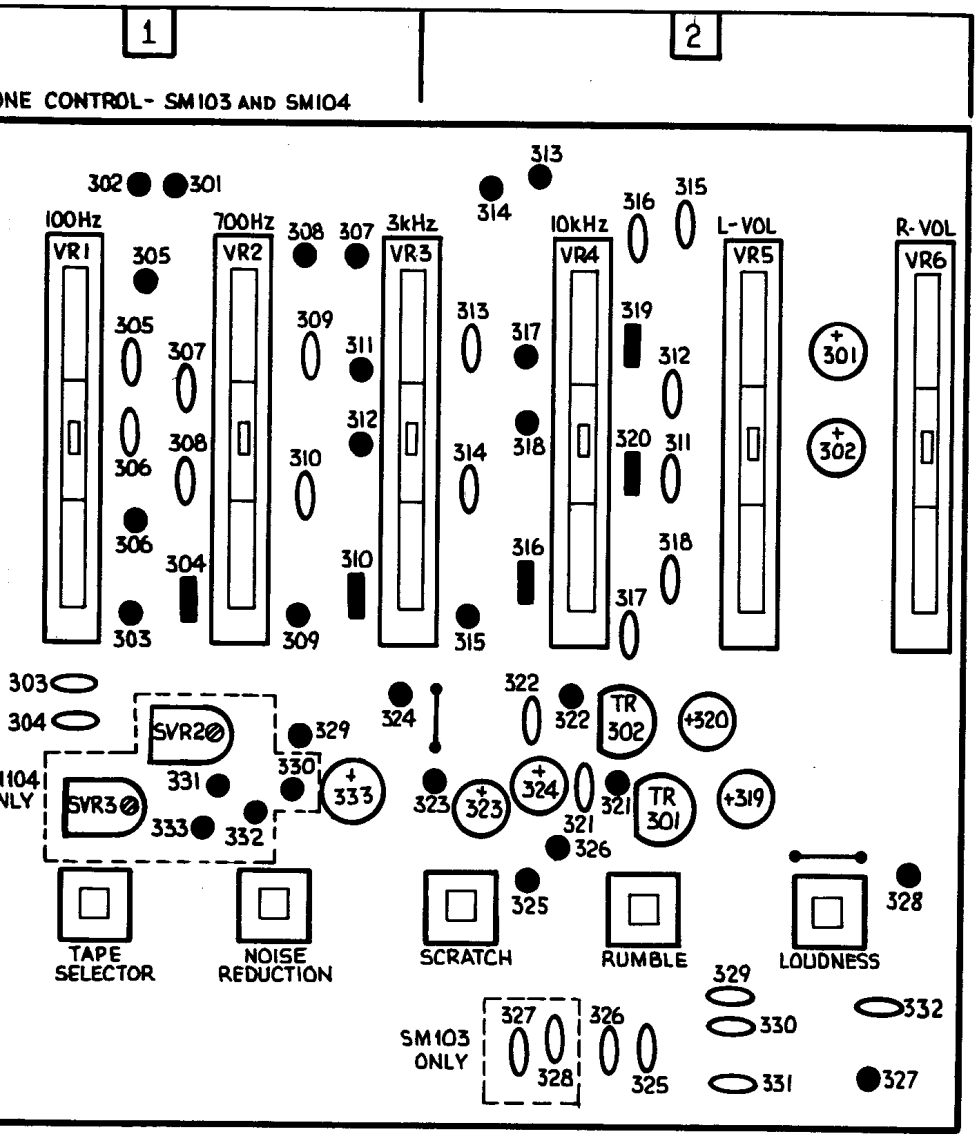
AD SM103/104
al stack module
(Part 3)



Cassette deck

Cassette deck

Before attempting any specific fault-finding, it is recommended that the following checks and maintenance procedures should be carried out on the cassette mechanism.

R/P head: Thoroughly clean the R/P head and examine it for signs of wear, replacing it if considered necessary. Demagnetise the head.

Pinch-roller assembly: Thoroughly clean the assembly (item 2 on exploded view) and check general condition. If the rubber roller is in any way distorted, replace the assembly.

Main belt: Ensure that the belt (item 20) is correctly located. Check that it is not stretched or worn, replacing it if necessary. In any event, remove and clean with methylated spirit.

Take-up spool assembly: Check the tension of the assembly (item 8) using a cassette torque meter. The correct reading should be 40g/cm. A reading of between 30-50g/cm may be regarded as within tolerance. Should the reading fall below 30g/cm, however, it should be adjusted to come into the tolerance range. If it cannot be so adjusted, it should be replaced.

Rewind idler assembly: Check the tension of the assembly (item 9) with a cassette torque meter, using the Rewind mode. The torque should be 100g/cm, but a reading of between 80-110g/cm may be considered as within tolerance. If the torque falls below 80g/cm it should be adjusted to give an acceptable reading. If it will not adjust sufficiently, it should be replaced.

Internal mechanism: After prolonged use, the internal mechanism will normally contain substantial deposits of oxide dust. Ensure that these are thoroughly cleaned.

Lubrication: There are no places on either mechanism which require any oil or grease and the application of any such lubrication is likely to harm the internal workings of the mechanism seriously.

Faultfinding Guide

Output on VHF but stereo LED inoperative:

Check that decoder is correctly aligned. Check for faulty LED. Check decoder IC (uPC587C) and if OK check C50 (470p)

Wow and flutter from record deck:

Check for belt slipping or stretched.

Cassette mechanism inoperative:

Check for correct location of connecting plug between cassette section and main amplifier. Check for faulty motor and drive belt out of position.

Cassette speed varies:

Check for dirty or worn pinch roller assembly and drive belt in incorrect position.

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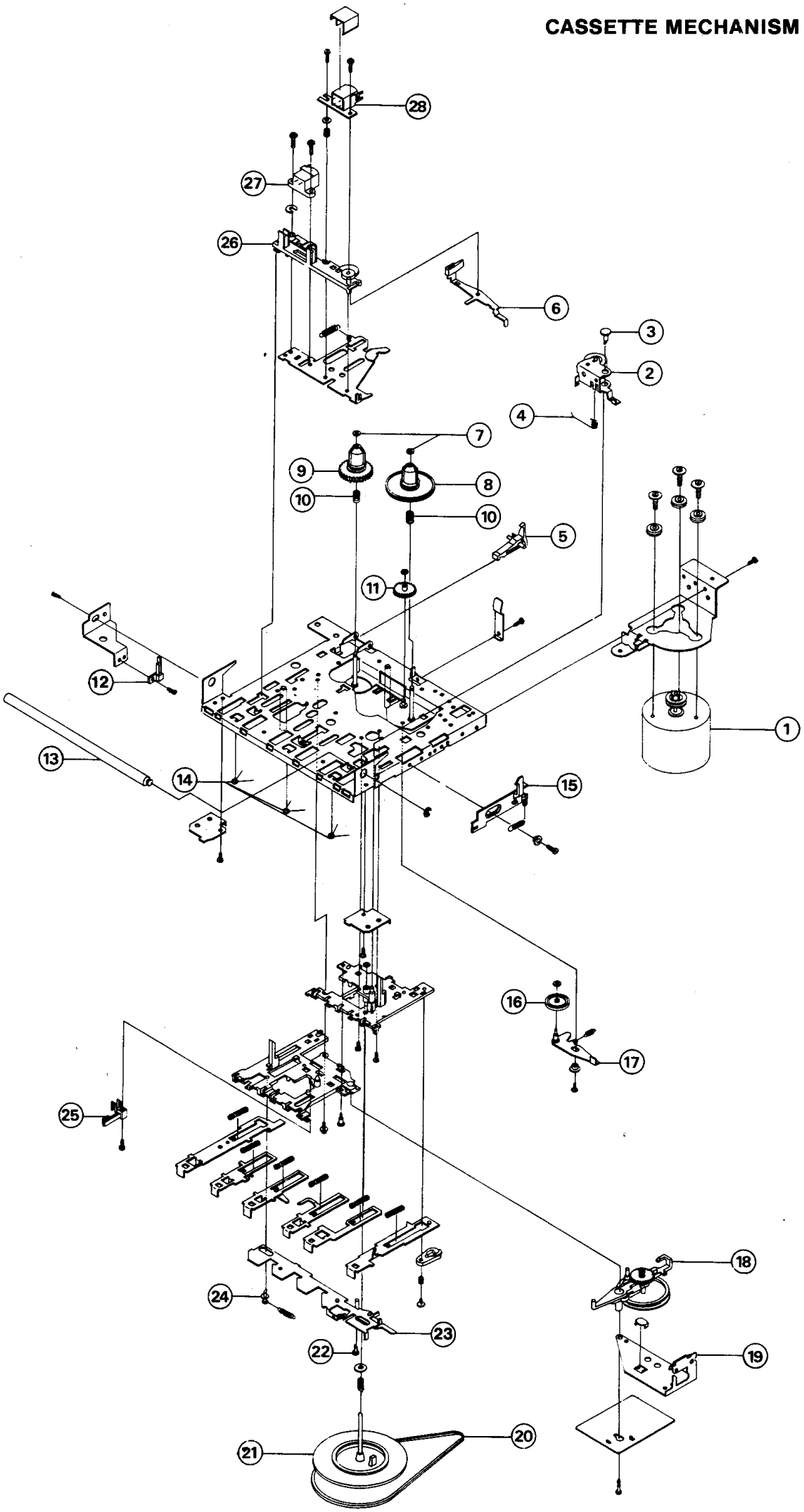
CASSETTE MECHANISM



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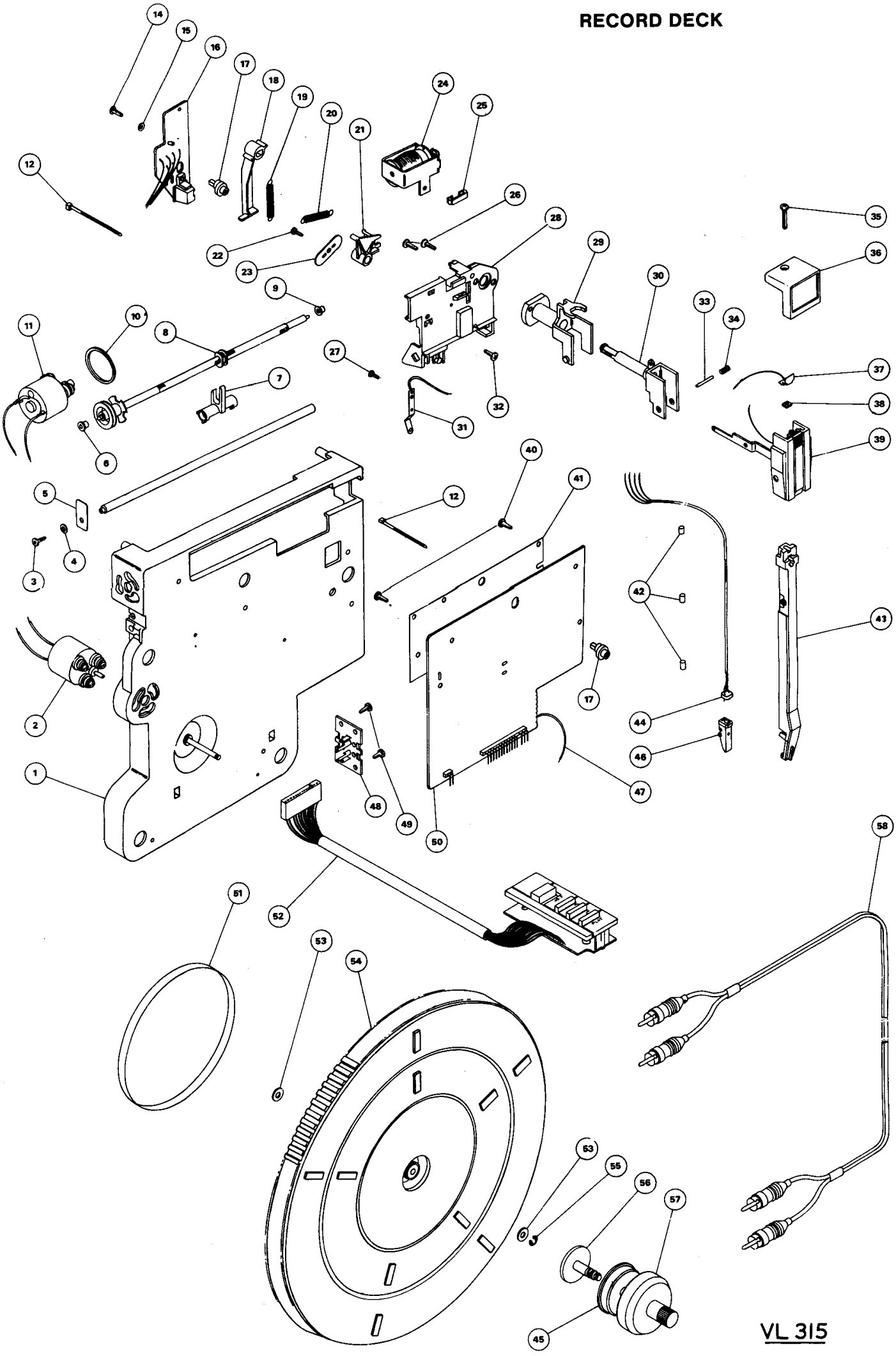
RECORD DECK



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