

Service Manual

Radio Cassette

RS-4350LJ

Stereo Portable Cassette Recorder with FM/MW/LW/SW Radio



RS -4350 MECHANISM SERIES

Specifications (Catalog specifications for sales)

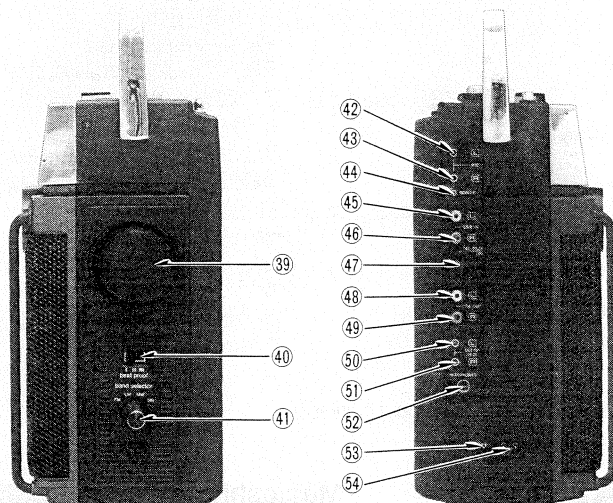
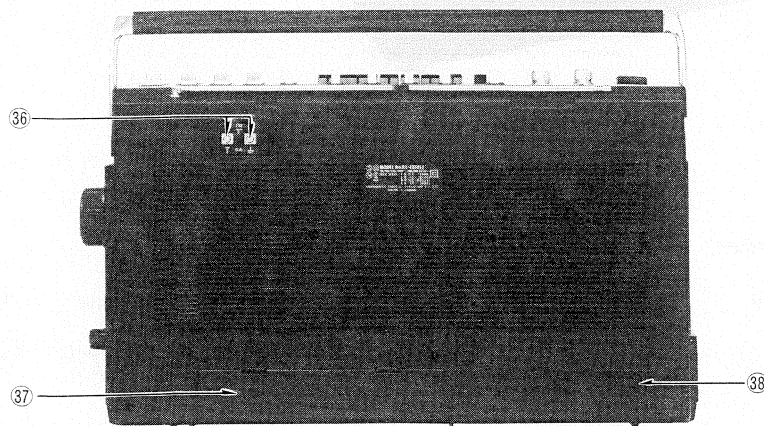
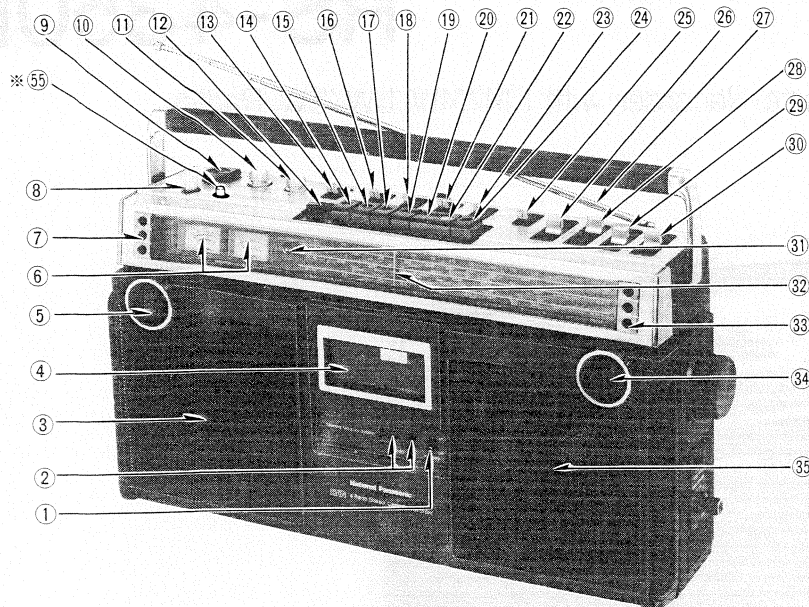
Power requirement:	AC; 110/125/220/240 V, 50 Hz Power consumption; 20 W Battery; 9 V (six- R20 size dry batteries) Car/boat battery; with optional car/boat adaptor RP-917	Input:	MIC; sensitivity 0.25 mV/applicable microphone impedance 200 ~ 600 Ω (recommended microphone RP-8135N) LINE; sensitivity 63 mV/560 K Ω DC IN; 9 V
Power output:	11 W (5.5 W $\times$ 2) ... RMS (max.)	Output:	LINE; output level 0.46 V load impedance 50 K Ω over EXT SP; 8 Ω HEADPHONES; 8 Ω REMOTE; for start and stop at hand
Frequency range:	50 ~ 14,000 Hz (with CrO ₂ tape) 50 ~ 12,000 Hz (with normal tape)	REC/PB. connection:	5 P DIN type; IN; 63 mV/22 K Ω OUT; 0.43 V/3.6 K Ω
Recording system:	AC bias, AC erase	Speakers:	WOOFER; 16 cm PM dynamic speaker TWEETER; 3 cm PM dynamic speaker
Operations:	Push button one-touch recording with Full Auto-Stop and memory play mechanism	Radio frequency range:	FM; 87.5 ~ 108 MHz MW; 525 ~ 1605 kHz LW; 145 ~ 285 kHz SW; 5.9 ~ 18 MHz
Tape speed:	4.8 cm/s	Dimensions:	51.4 cm(W) $\times$ 28.9 cm(H) $\times$ 16.3 cm(D)
Program time:	1 hour with C-60 cassette tape	Weight:	7.3 kg (without batteries)
Fast forward and rewind time:	Approx. 90 seconds with C-60 cassette tape		
Track system:	4-track stereo recording and playback		

Specifications are subject to change without notice.


National Panasonic
Matsushita Electric Trading Co., Ltd.

P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS AND COMPONENTS



- ① Memory ON/OFF lever
- ② Tape counter and reset button
- ③ Speaker (L-Woofer)
- ④ Cassette lid assembly
- ⑤ Speaker (L-Tweeter)
- ⑥ Level meter
- ⑦ Built-in microphone (L)
- ⑧ Dial light button
- ⑨ Accessory holder
- ⑩ Record volume (L)
- ⑪ Record volume (R)
- ⑫ Timer stand-by lever
- ⑬ Input selector/mixing switch
- ⑭ Eject button
- ⑮ Stop button
- ⑯ Tape selector
- ⑰ Fast forward/cue button
- ⑱ Recording mode selector
- ⑲ Rewind/review button
- ⑳ Playback button
- ㉑ Mode selector
- ㉒ Record button
- ㉓ Function selector
- ㉔ Pause button
- ㉕ FM auto frequency control switch
- ㉖ Bass control
- ㉗ Rod antenna
- ㉘ Treble control
- ㉙ Balance control
- ㉚ Volume control
- ㉛ Stereo eye
- ㉜ Dial indicator
- ㉝ Built-in microphone (R)
- ㉞ Speaker (R-Tweeter)
- ㉟ Speaker (R-Woofer)
- ㊱ FM external antenna
- ㊲ Battery cover
- ㊳ Voltage selector
- ㊴ Tuning knob
- ㊵ Beat proof switch
- ㊶ Band select switch
- ㊷ Microphone jack (L)
- ㊸ Microphone jack (R)
- ㊹ Remote-control jack
- ㊺ Line in jack (L)
- ㊻ Line in jack (R)
- ㊼ Recording/playback DIN jack
- ㊽ Line out jack (L)
- ㊾ Line out jack (R)
- ㊿ External speaker jack (L)
- External speaker jack (R)
- Headphone jack
- Car adaptor connection jack
- AC power connection jack
- ※ ㉟ AC power switch button (for United Kingdom only)

DISASSEMBLY INSTRUCTIONS

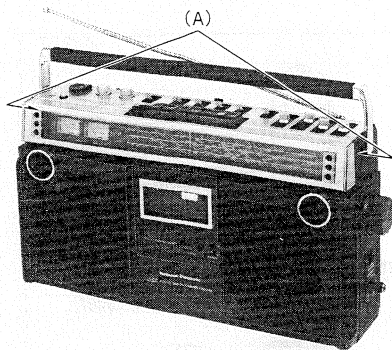


Fig. 2

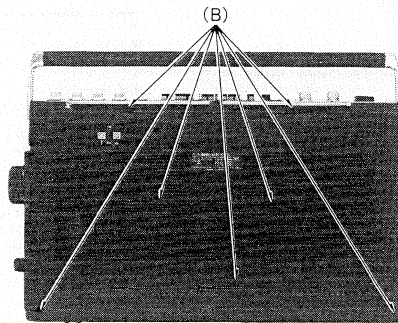


Fig. 3

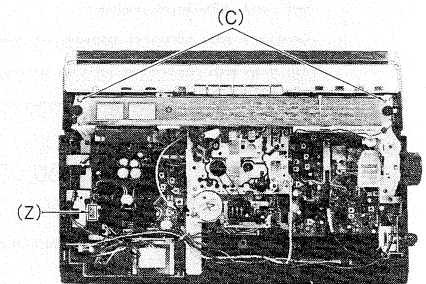


Fig. 4

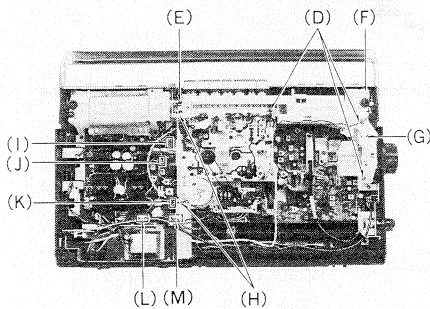


Fig. 5

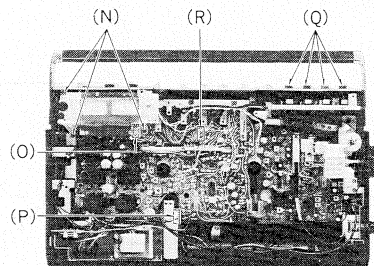


Fig. 6

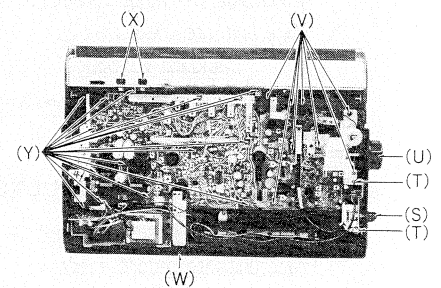


Fig. 7

Procedure	To remove — .	Remove — .	Pcs.	Shown in fig. — .
1	Front panel	(A), (B), ※1	(2), (7)	(2), (3)
2	Dial scale	(C)	(2)	(4)
3	Dial chassis (B) assembly	(D), (E), (F), (G)	(3), (1), (1), (1)	(5)
4	Mechanism	(H), ※2	(2)	(5)
5	Dial chassis (A) assembly	(N), ※3	(3)	(6)
6	Tone control circuit board	(Q), ※4	(4)	(6)
7	Switch angle	(S), (T)	(1), (2)	(7)
8	Radio circuit board	(V)	(8)	(7)
9	Mechanism angle	(W)	(1)	(7)
10	Main circuit board	(X), (Y)	(2), (15)	(7)

※1; Remove speaker connector (Z) shown in fig. 4.

※2; Remove head connector (I) (L-CH), (J) (R-CH), (K) (erase), and motor connector (L), and switch connector (M).

※3; Remove meter connector (O) and meter lamp connector (P).

※4; Remove connector (R).

ADJUSTMENTS

A. PRESSURE OF PRESSURE ROLLER

1. Set into playback mode.
2. Connect the tension gauge to the pressure roller lever and pull it in the direction of the arrow as shown in fig. 9.
3. Measure the tension at the moment when the pressure roller moves away from the capstan.
Standard tension: 350 ± 50 gr
4. If the tension is out of tolerance, bend the part (a) of pressure roller spring in either direction shown by the arrow.

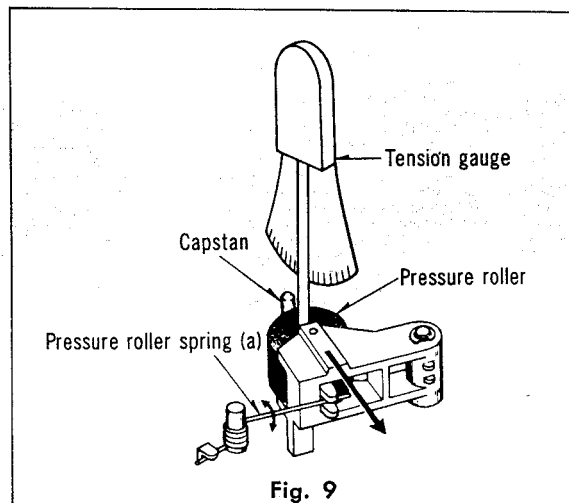


Fig. 9

B. BIAS CURRENT

1. Connect the VTVM to test point 101 (L-CH) or test point 201 (R-CH) and test point 102. (Location of test points is in the chart of wiring connection diagram)
2. Place unit into record mode.
Standard voltage: 3.8 ± 0.5 mV
3. If the voltage is out of tolerance, adjust VR301 (L), VR302 (R) shown in fig. 12.

C. BIAS OSCILLATION FREQUENCY

1. Connect a oscilloscope with AF OSC as shown in fig. 10.
2. Place unit into record mode.
3. Adjust AF OSC to obtain the circular and stationary Lissajous' pattern on the oscilloscope. The bias oscillation frequency is indicated by the scale of AF OSC.

Standard value: S4 — ON ... 48 ± 0.5 kHz
S4 — OFF ... $2 \text{ kHz} \pm 30\%$
higher than above

4. If it is out of tolerance, adjust L301 shown in fig. 12.

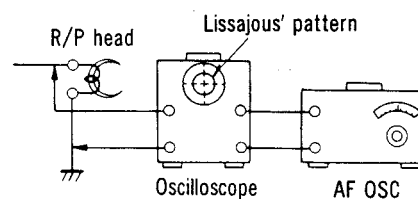


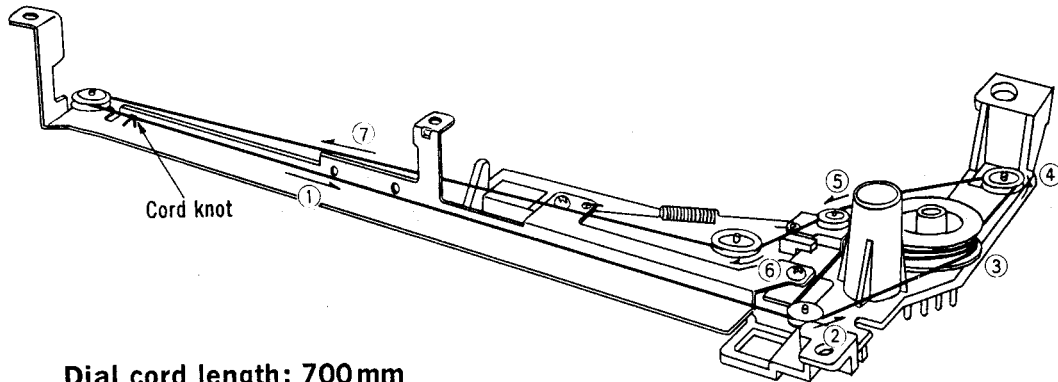
Fig. 10

D. OTHER SPECIFICATIONS FOR REFERENCE (NO ADJUSTABLE)

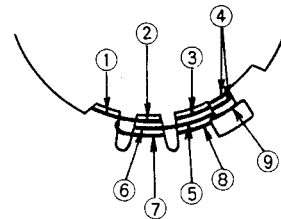
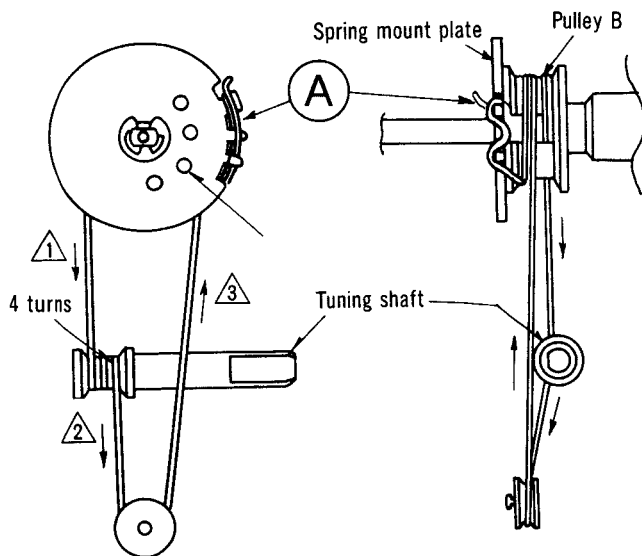
ITEM	SPECIFICATION	REMARKS
Takeup tension	50 ± 10 gr-cm	Use torque meter QZZSRKCT.
Wow and flutter	0.09% WRMS	Use cassette test tape QZZCWAT.
Tape speed fluctuation	$\pm 3\%$	"
Standard recording input level	MIC: -72 dB LINE IN: -24 dB	To obtain $50 \mu\text{A} \pm 2$ dB of current through recording head. f: 1 kHz
Overall gain	More than 3.5 V (Normal position)	Use DC 9V power supply. Record 1 kHz tone with standard recording input level, and playing back the tape, read the output value across speaker.
Overall frequency response	1 kHz: 0 dB 125 Hz: 5 ± 4 dB 6 kHz: 2 ± 5 dB	Record the signal with 10 dB lower level than standard recording input level.

ALIGNMENT INSTRUCTIONS FOR RADIO

Dial cord length: 481 mm



Dial cord length: 700 mm

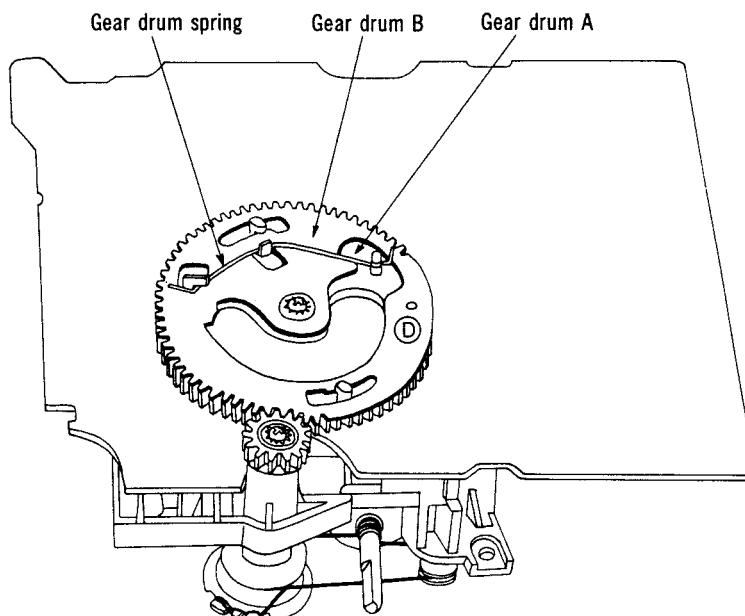


DETAILS OF PART A

1. Pull the cord out from ①, and thread it over ② and under ③.
2. Wind the cord twice at ④, and then thread it to ⑤, ⑥, ⑦ and ⑧.
3. Tie the cord at ⑨.

ATTACHMENT OF GEAR DRUM A

- With the assembly as shown in the figure, turn the variable capacitor shaft all the way to the left (counterclockwise), attach gear drum A so that it is turned 180° from the condition shown in the figure, and secure it by tightening with the screw.

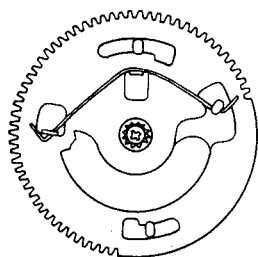


ATTACHMENT OF ASSEMBLED DIAL CHASSIS C

1. With the assembly as shown in the figure, turn the variable capacitor all the way to the left, and align the (D) hole of gear drums A and B.
2. Turn the tuning shaft of dial chassis C one or two turns to the right from the position of turned completely to the left.
3. Attach dial chassis C to the radio base plate, and secure with the screws.

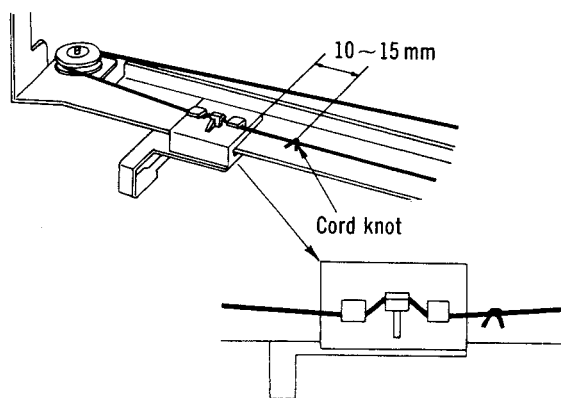
ATTACHMENT OF THE GEAR DRUM SPRING

- Hook it at 3 places, as shown in the figure.



ATTACHMENT OF THE INDICATION NEEDLE ASSEMBLY

1. The position in relation to the cord knot should be as shown in the figure.



MW, LW, SW IF & RF ALIGNMENTS

Adjustment parts location is shown in ffg. 12.
Test points location is shown on page 11.

Output of signal generator should be no higher than necessary to obtain an output reading.
Set volume control to maximum.
Tape/radio/sleep selector to radio.
Set bass and treble controls to center.
Set balance control to center.
Maintain line voltage at 220 volts.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
IF ALIGNMENT Band selector to MW						
1	Fashion loop of several turns of wire and radiate signal into loop of receiver.	Approx. 455 kHz 470 kHz (for United Kingdom only) (400Hz Mod.)	Point of non-interference (on/about 600kHz).	Output meter across EXT SP jack (L).	T4 (1st IFT) T5 (2nd IFT)	Adjust for maximum output.
MW RF ALIGNMENT Band selector to MW						
2	Same as above.	550 kHz (400Hz Mod.)	550kHz	Same as above.	T12 (OSC coil) L6 (ANT coil)	Adjust for maximum output by sliding coil T12 along ferrite core.
3	Same as above.	1,500kHz (400Hz Mod.)	1,500kHz	Same as above.	CT7 (OSC trimmer) CT2 (ANT trimmer)	Adjust for maximum output. Repeat steps (2) and (3).

FM RF ALIGNMENT

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
3	Connect to EXT FM antenna terminal through FM dummy antenna. Common to chassis.	90 MHz (400 Hz Mod.)	90 MHz	Output meter across EXT SP jack (L).	L4 (FM OSC coil) L3 (FM collector coil)	Adjust for maximum output.
4	Same as above.	106 MHz (400 Hz Mod.)	106 MHz	Same as above.	CT3 (FM OSC trimmer) CT4 (FM collector trimmer)	Adjust for maximum output. Repeat steps (3) and (4).

MULTIPLEX COIL & SEPARATION ALIGNMENT

* EQUIPMENTS REQUIRED

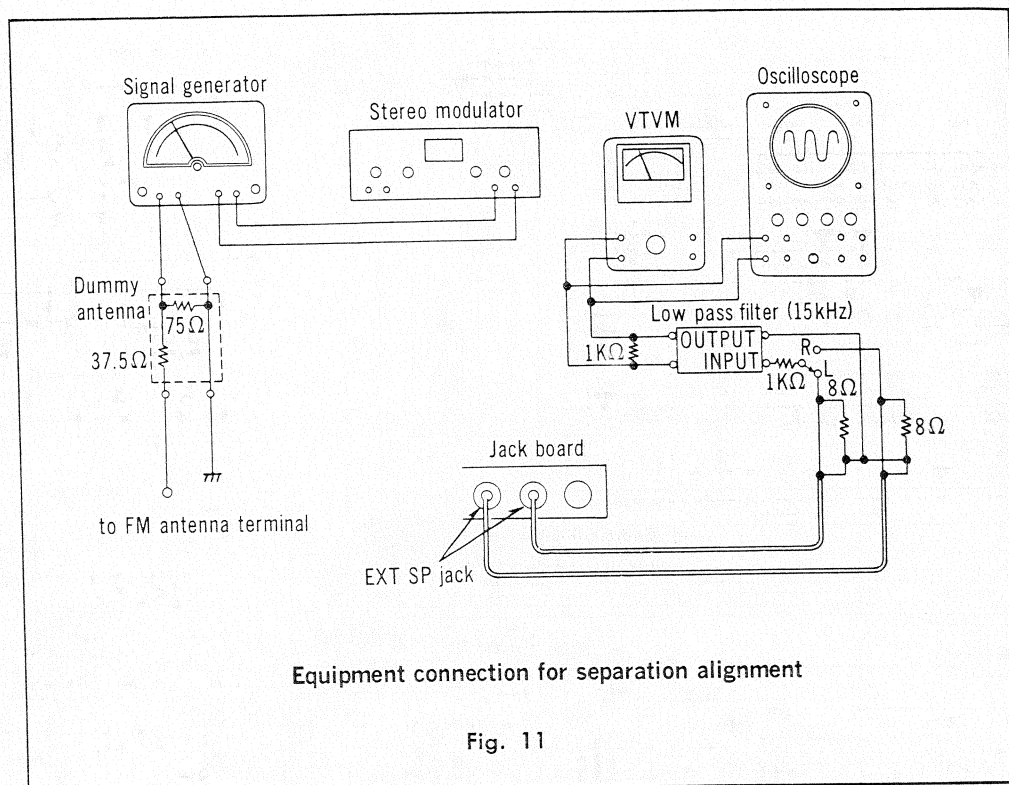
- ① Stereo modulator Connect stereo modulator output to EXT Mod. terminal of signal generator.
- ② Signal generator Modulation rate by 19 kHz pilot signal 8~10%
Modulation rate by left signal 30%
Output level 60 dB
Frequency Approx. 98 MHz
- ③ Oscilloscope
- ④ Dummy antenna
- ⑤ VTVM
- ⑥ Low pass filter (15 kHz)

* MEASURING CONDITION

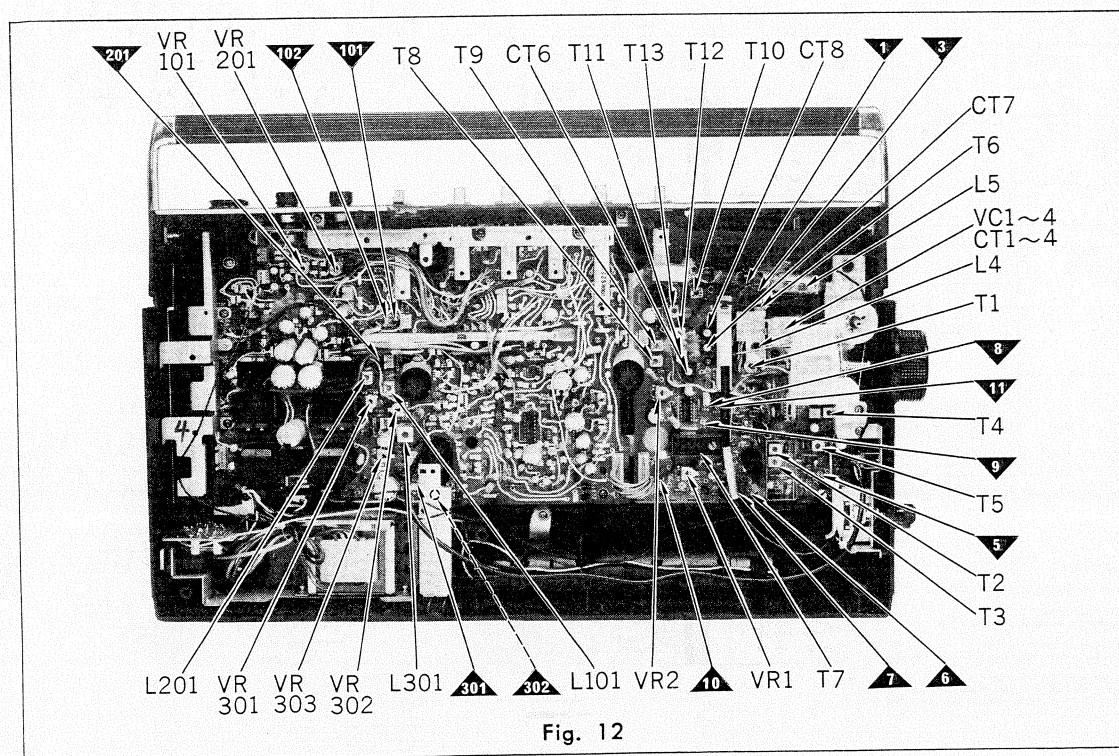
Band selector to FM, dial setting to approx. 98 MHz, bass control to CENTER, treble control to CENTER, balance control to CENTER, volume control should be no higher than necessary to obtain output reading.

ALIGNMENT PROCEDURE

ITEM	SIGNAL SOURCE CONNECTION	EQUIPMENT CONNECTION	ADJUSTMENT	REMARKS
Adjustment of pilot signal.	98 MHz, 60 dB	TP8	Yellow core of T7	• Set stereo (L + R) modulation to zero. • Measure pilot signal only, and adjust for maximum (more than 1 V).
Adjustment of separation.	98 MHz, 60 dB Modulation by L signal. (Refer to fig. 11)	Connect VTVM and 8Ω resistor to EXT SP jack. (Refer to fig. 11)	Black core of T7 VR2	• Adjust volume control so that L output becomes 0.63 V. • Slightly adjust black core of T7 so that L output becomes maximum. • Then change the modulation by R signal only, and adjust semi-fixed variable resistor VR2 so that L output becomes minimum. • Likewise modulate by L signal only, and adjust VR2 so that R output becomes minimum. • Repeat above procedure.
Measurement of stereo eye lighting level.	98 MHz	—	VR1	• Set input level at 25 dB. • Adjust semi-fixed variable resistor VR1 so that stereo eye turns OFF at 25 dB.



ADJUSTMENT PARTS LOCATION



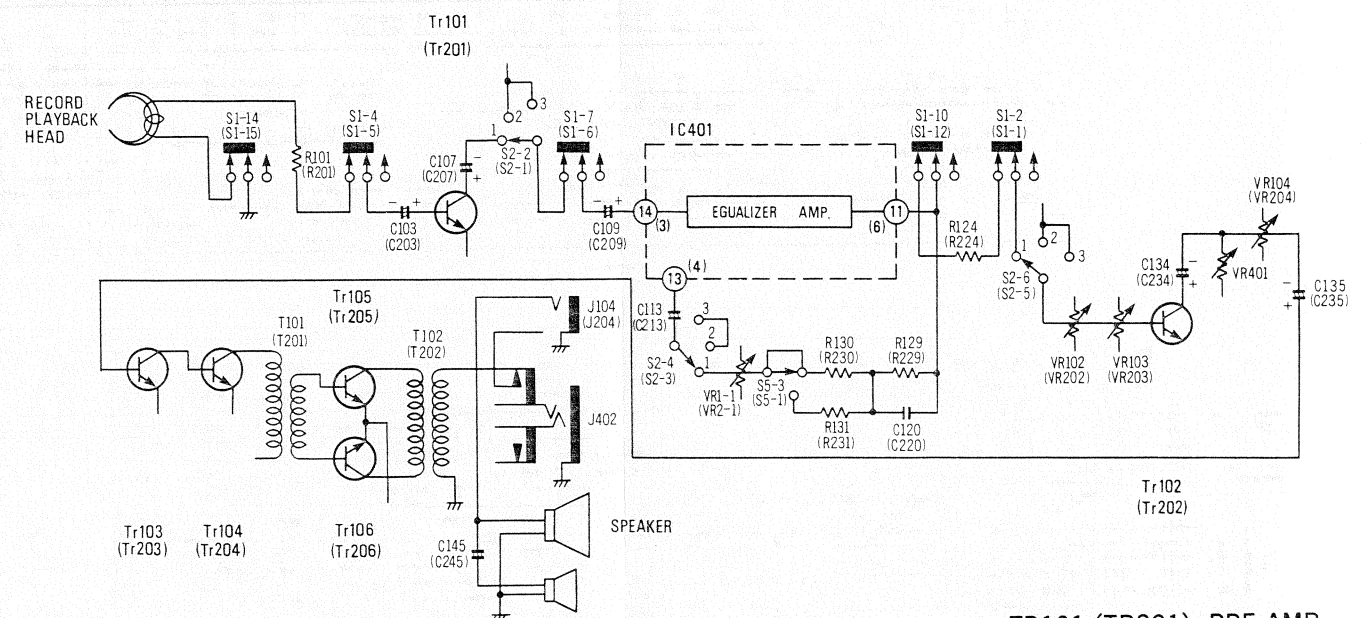
BLOCK DIAGRAM OF ELECTRICAL CIRCUITS

DIAGRAMME SCHEMATIQUE DES CIRCUITS ELECTRIQUES

Note:

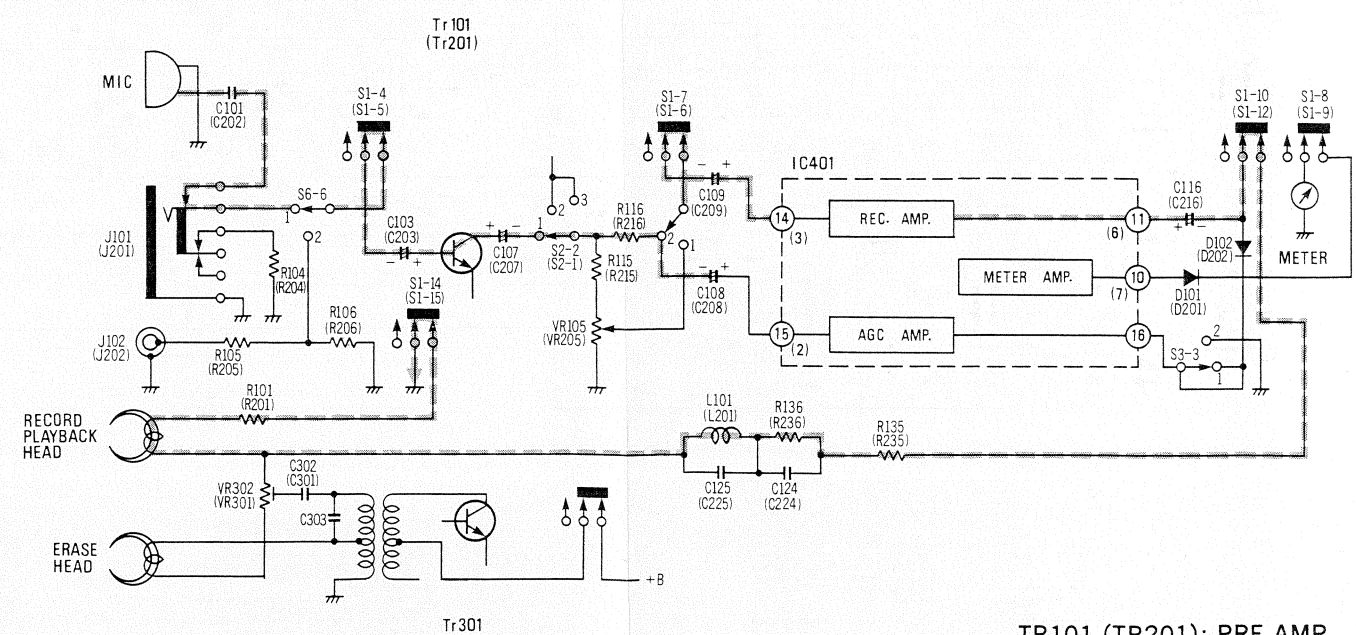
1. () marked are the components used for right channel.
2. line indicates recording signal coming through condenser microphone.

PLAYBACK CIRCUIT



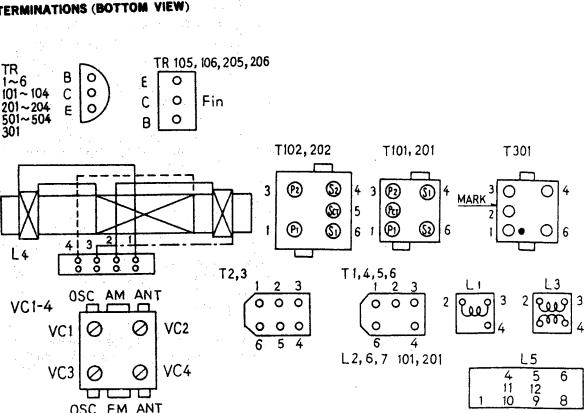
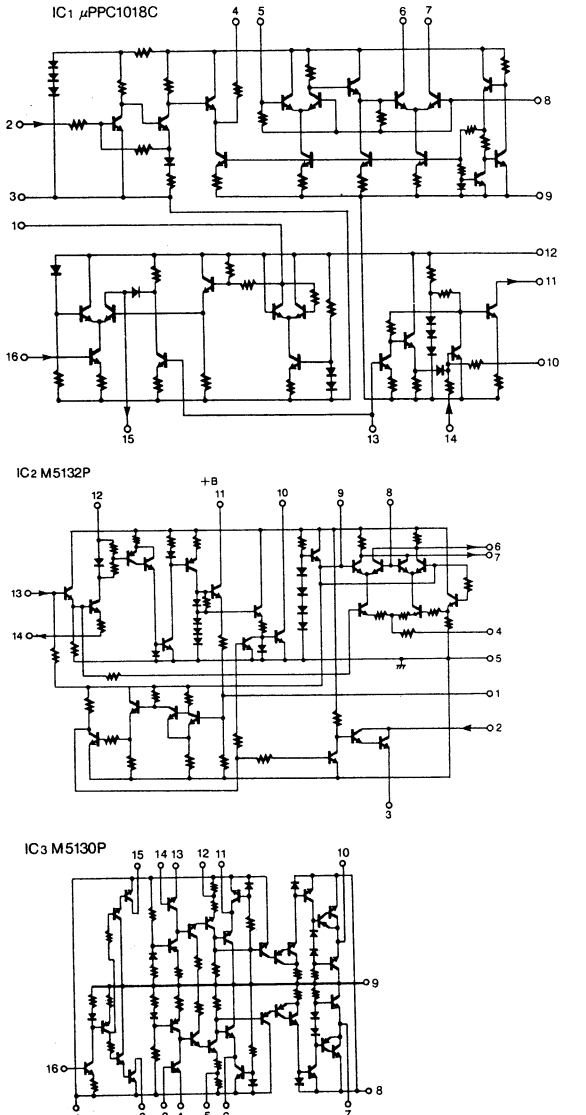
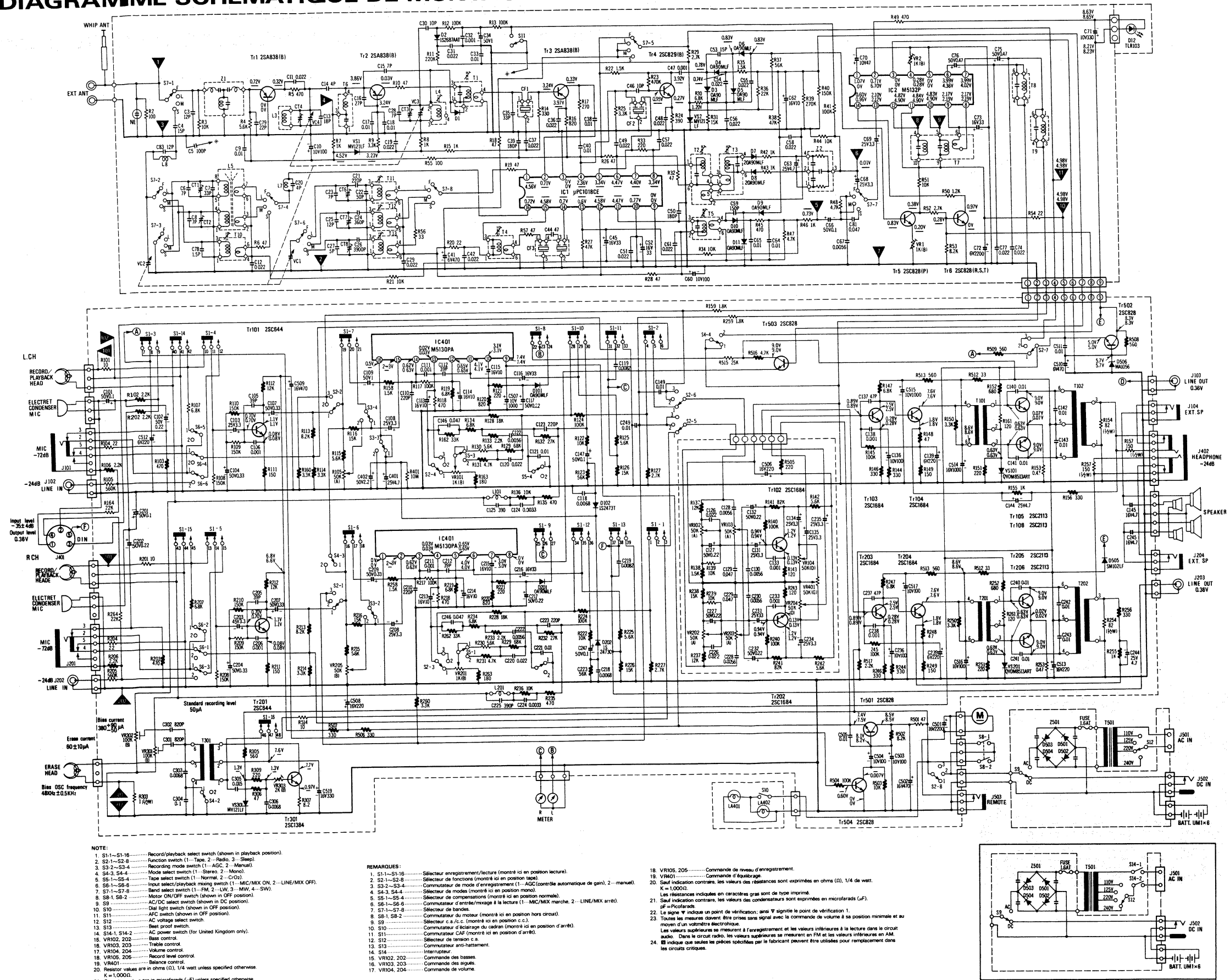
TR101 (TR201): PRE AMP.
TR102 (TR202): AF. AMP.
TR103 (TR203): AF. AMP.
TR104 (TR204): AF. AMP.
TR105 (TR205): Power AMP.
TR106 (TR206): Power AMP.

RECORDING CIRCUIT



TR101 (TR201): PRE AMP.
TR301: OSC CIRCUIT

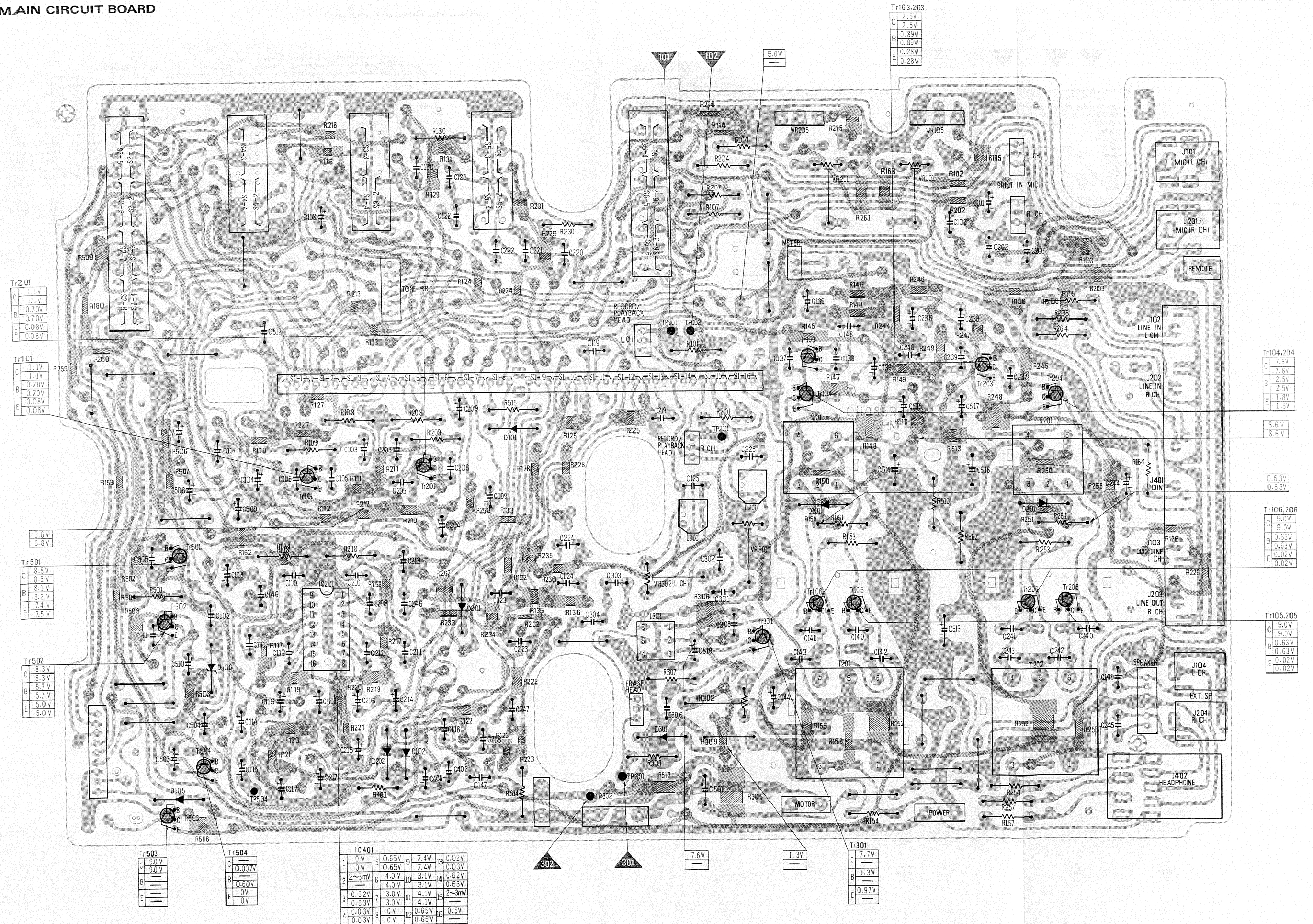
SCHEMATIC DIAGRAM MODEL RS-4350LJ
DIAGRAMME SCHEMATIQUE DE MONTAGE



- NOTE:
- S1-1, S1-16: Record/playback select switch (shown in playback position).
 - S2-1, S2-8: Function switch (1 - Tape, 2 - Radio, 3 - Sleep).
 - S3-2, S3-4: Recording mode switch (1 - AGC, 2 - Manual).
 - S4-3, S4-4: Mode select switch (1 - Stereo, 2 - Mono).
 - S5-1, S5-4: Tape select switch (1 - Normal, 2 - C-70).
 - S6-1, S6-8: Input select/playback mixing switch (1 - MIC/MIX ON, 2 - LINE/MIX OFF).
 - S7-1, S7-8: Band select switch (1 - FM, 2 - LW, 3 - MW, 4 - SW).
 - S8-1, S8-2: Motor ON/OFF switch (shown in OFF position).
 - S9: AC/DC select switch (shown in DC position).
 - S10: Dial light switch (shown in OFF position).
 - S11: AFC switch (shown in OFF position).
 - S12: AC voltage select switch.
 - S13: Beat proof switch.
 - S14-1, S14-2: AC power switch (for United Kingdom only).
 - VR102, 203: Base control.
 - VR103, 203: Volume control.
 - VR104, 204: Volume control.
 - VR105, 205: Record level control.
 - VR401: Balance control.
 - VR102, 202: Command des bases.
 - VR103, 203: Commande des aigus.
 - VR104, 204: Commande de volume.
- REMARKS:
- S1-1, S1-16: Sélecteur enregistrement/lecture (montré ici en position lecture).
 - S2-1, S2-8: Sélecteur de fonctions (montré ici en position tape).
 - S3-2, S3-4: Sélecteur de mode d'enregistrement (1 - AGC/contrôle automatique de gain, 2 - manuel).
 - S4-3, S4-4: Sélecteur de modes (montré ici en position mono).
 - S5-1, S5-4: Sélecteur de compensations (montré ici en position normale).
 - S6-1, S6-8: Commutateur d'entrée/mélange à la lecture (1 - MIC/MIX marche, 2 - LINE/MIX arrêt).
 - S7-1, S7-8: Sélecteur de bandes.
 - S8-1, S8-2: Commutateur du moteur (montré ici en position hors circuit).
 - S9: Sélecteur a.c./c.c. (montré ici en position c.c.).
 - S10: Commutateur d'éclairage du cadran (montré ici en position d'arrêt).
 - S11: Commutateur CAF (montré ici en position d'arrêt).
 - S12: Sélecteur de tension c.a.
 - S13: Commutateur anti-hammette.
 - S14-1, S14-2: Interrupteur.
 - VR102, 202: Commande des bases.
 - VR103, 203: Commande des aigus.
 - VR104, 204: Commande de volume.
18. VR105, 205: Commande de niveau d'enregistrement.
19. VR401: Commande d'équilibre.
20. Siad indication contraire, les valeurs des résistances sont exprimées en ohms (Ω), 1/4 de watt. K = 1.000Ω.
- Les résistances indiquées en caractères gras sont de type imprimé.
21. Siad indication contraire, les valeurs des condensateurs sont exprimées en microfarads (μF), pF = Picofarads.
22. Le signe "V" indique un point de vérification; ainsi "V" signifiera le point de vérification 1.
23. Toutes les mesures doivent être prises sans signal avec la commande de volume à sa position minimale et au moyen d'un voltmètre électronique.
- Les valeurs supérieures se mesurent à l'enregistrement et les valeurs inférieures à la lecture dans le circuit audio. Dans le circuit radio, les valeurs supérieures se mesurent en FM et les valeurs inférieures en AM.
24. Si indique que seules les pièces spécifiées par le fabricant peuvent être utilisées pour le remplacement dans les circuits critiques.

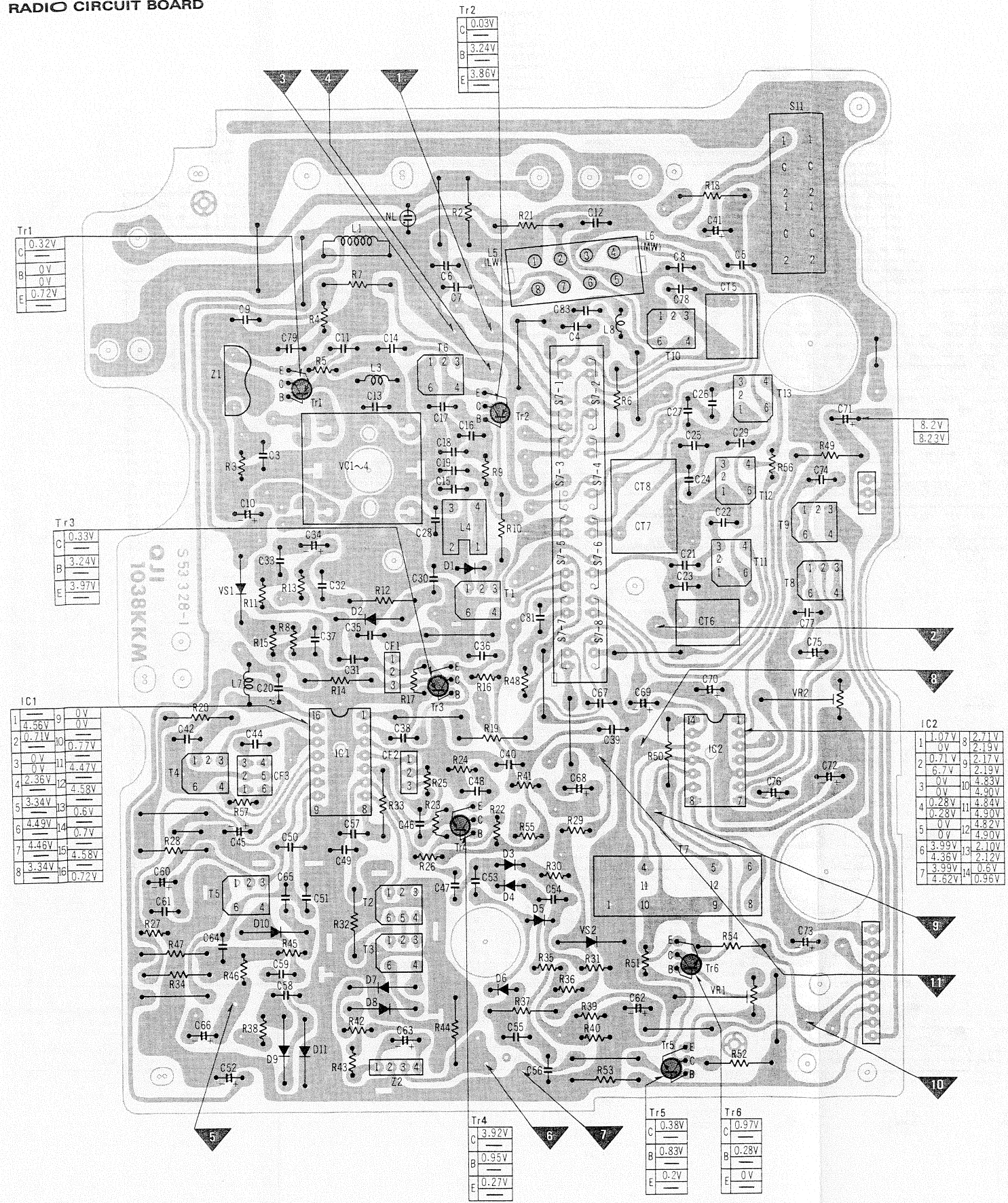
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CIRCUIT BOARD **PLAQUE DE CABLAGE** **MAIN CIRCUIT BOARD**

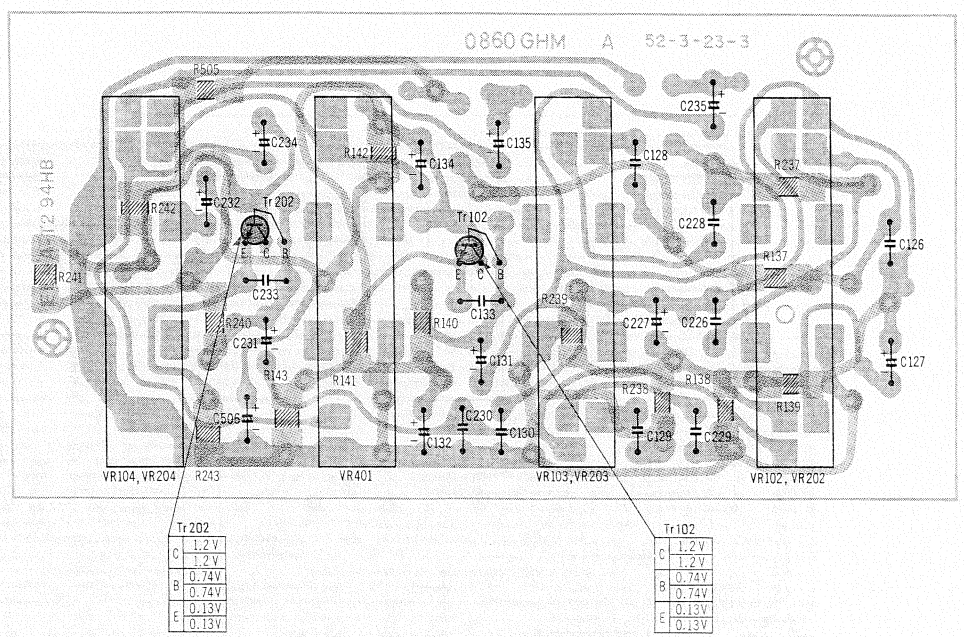


CIRCUIT BOARD
PLAQUE DE CABLAGE

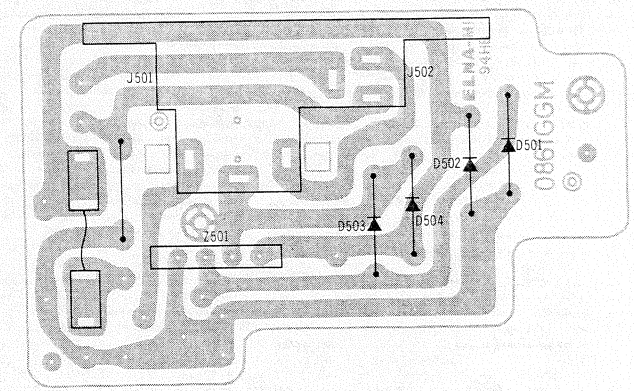
RADIO CIRCUIT BOARD



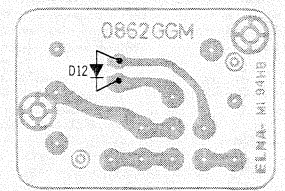
VOLUME CIRCUIT BOARD



POWER CIRCUIT BOARD



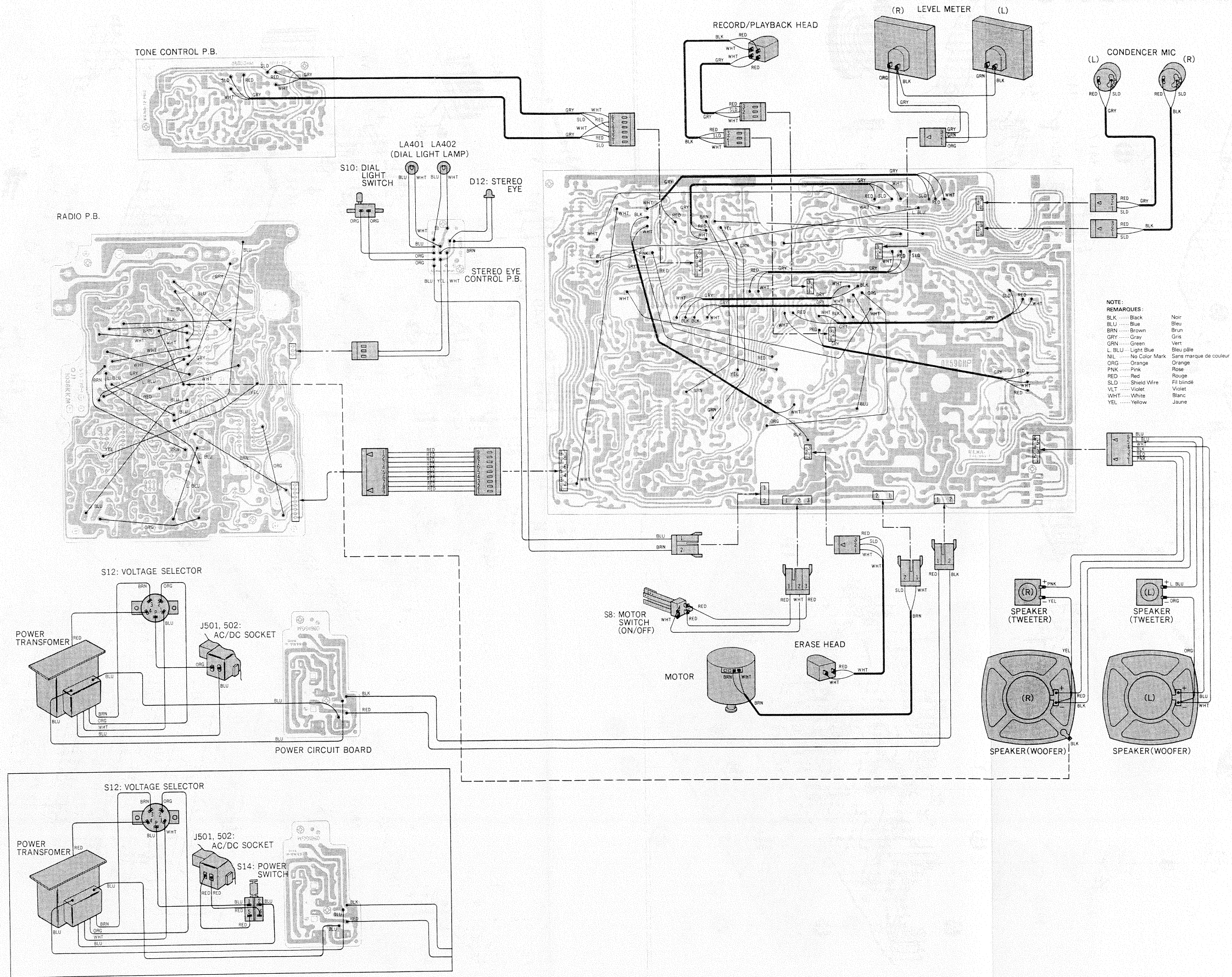
STEREO EYE CIRCUIT BOARD



NOTE:
The circuit shown in red on the conductor is B circuit.
Values indicated in are DC voltage between the chassis and electrical parts.
The upper values should be measured during recording and the lower values during playback (Audio circuit).
The upper values should be measured during FM and the lower values during AM (Radio circuit).

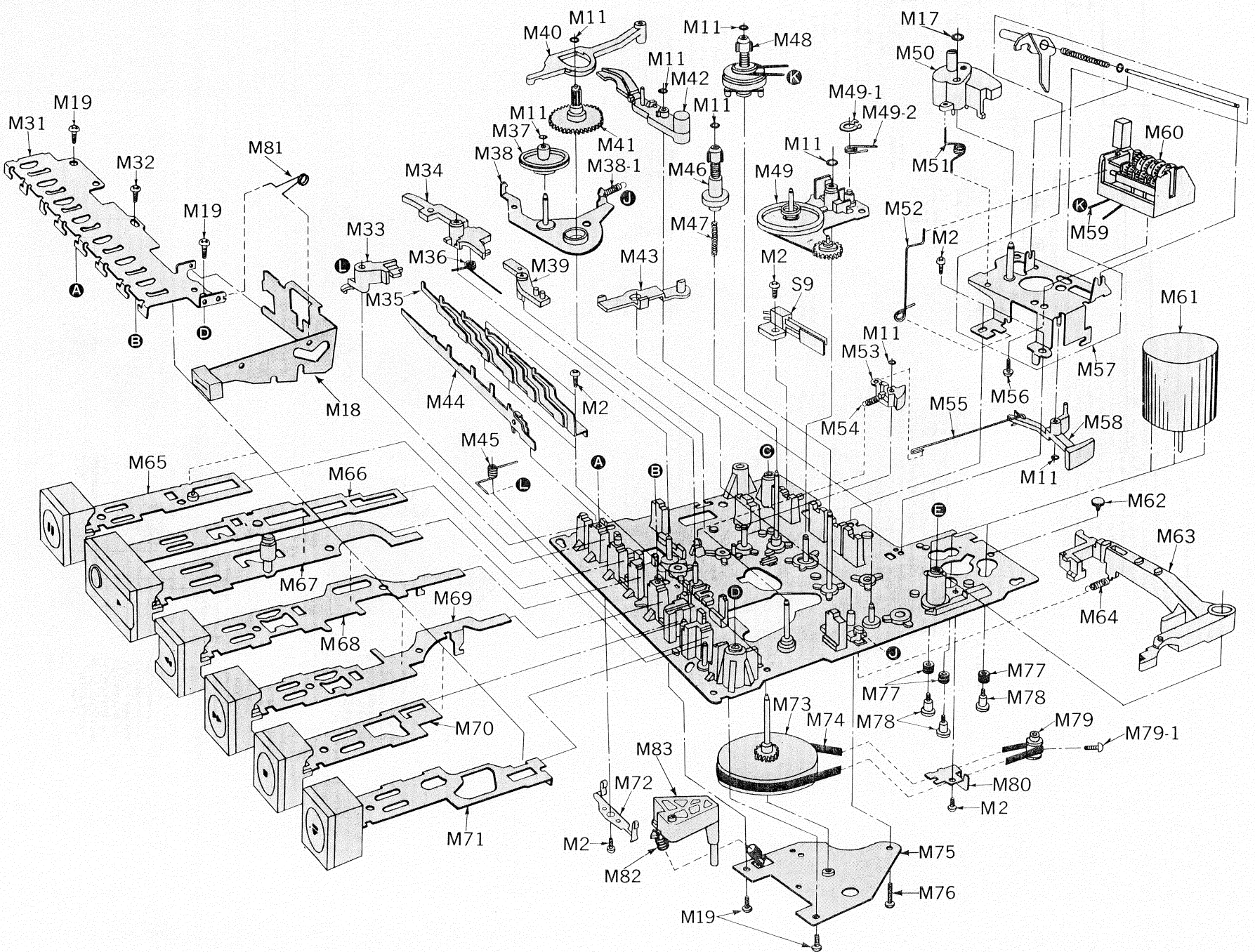
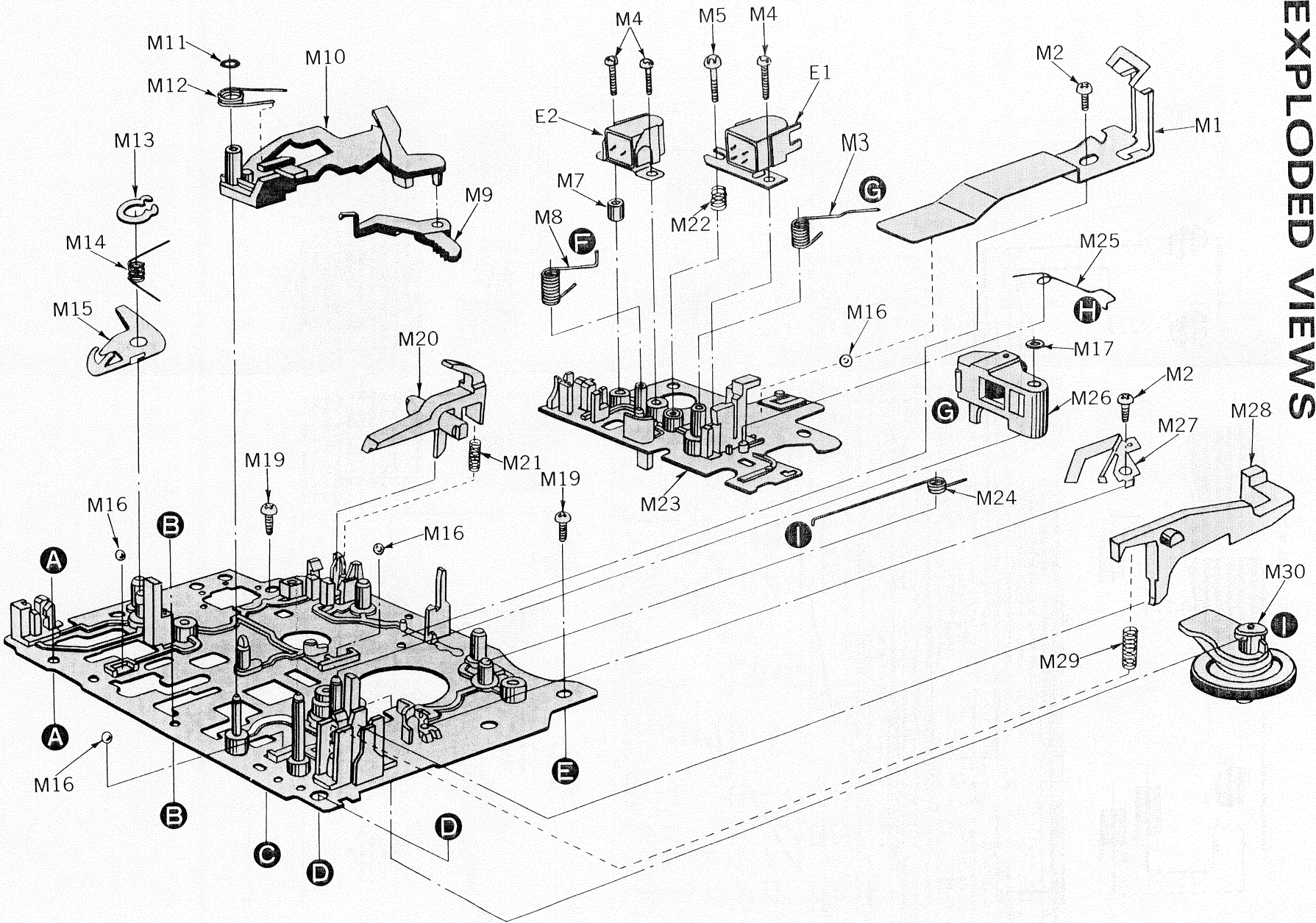
REMARQUES:
Le circuit montré en rouge sur ce diagramme indique le circuit d'alimentation B.
Les valeurs montrées dans sont des tensions continues entre le châssis et les pièces électriques indiquées.
Les valeurs supérieures se mesurent à l'enregistrement et les valeurs inférieures à la lecture (pour les circuits de la audio).
Toutes les tensions supérieures indiquent des mesures faites en mode FM et les tensions inférieures en mode AM (pour les circuits de la radio).

WIRING CONNECTION DIAGRAM MODEL RS-4350LJ SCHEMA DE MONTAGE

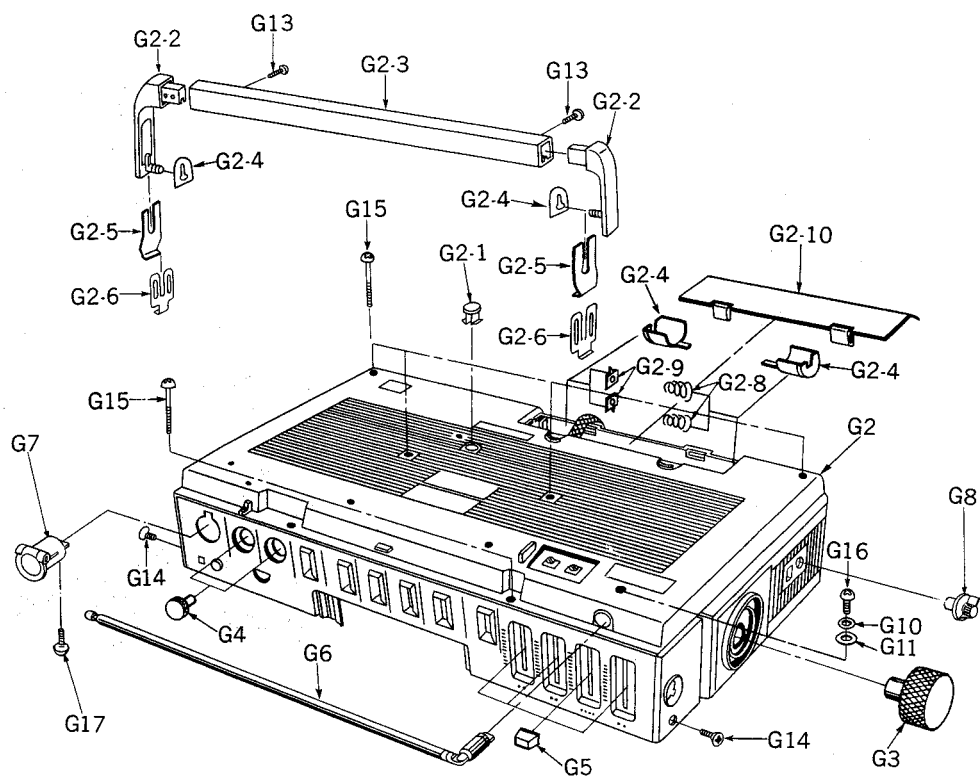
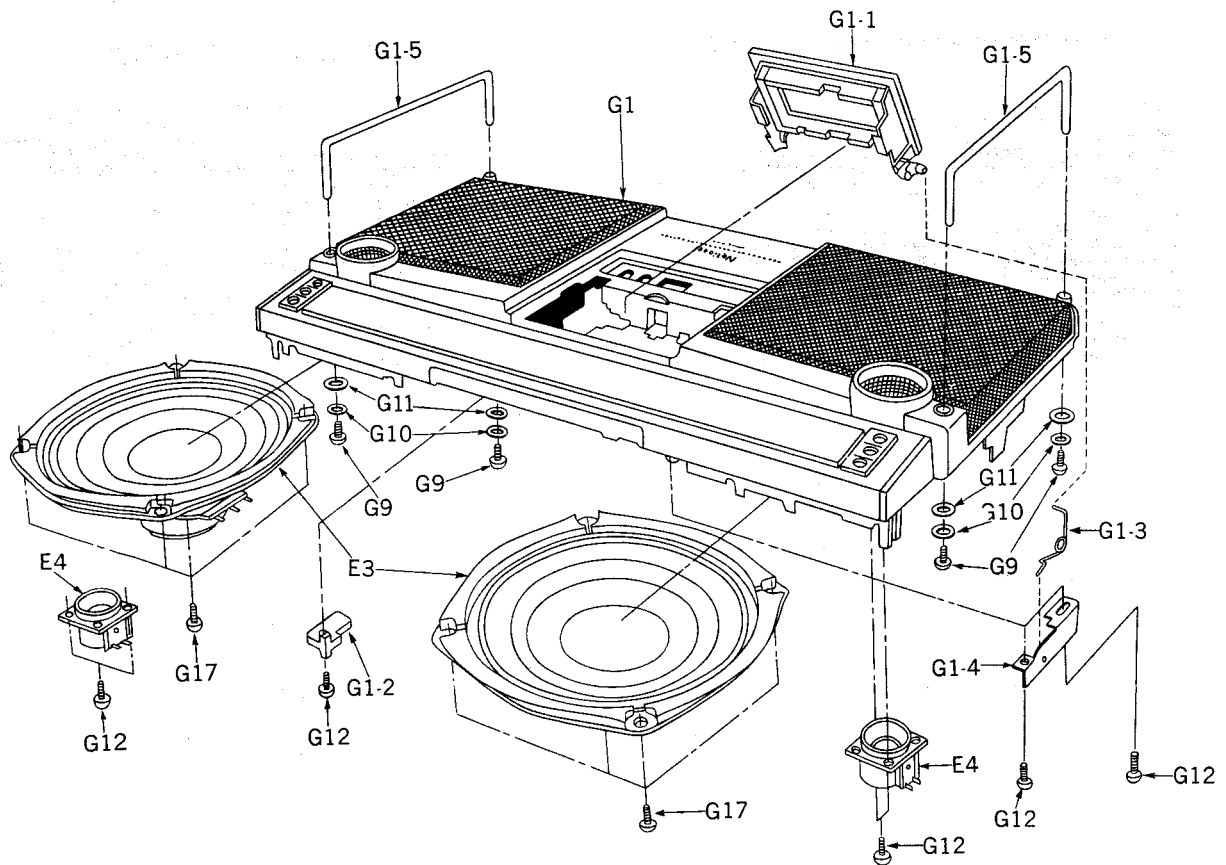


for United Kingdom only

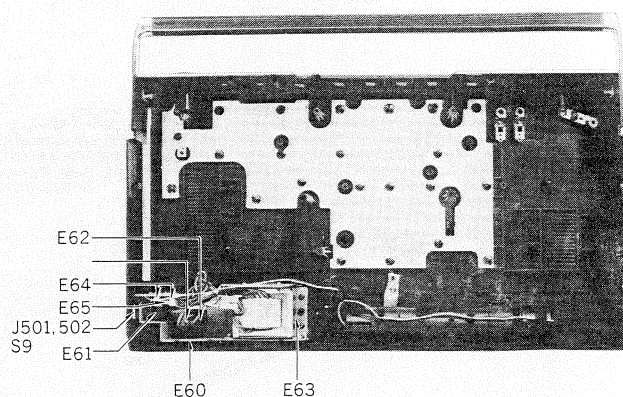
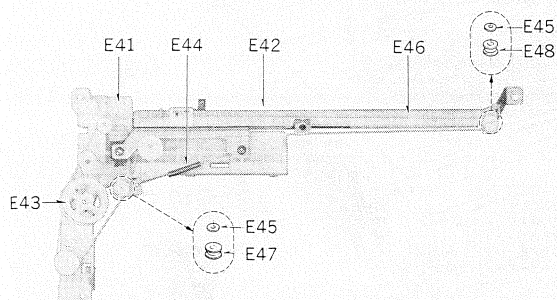
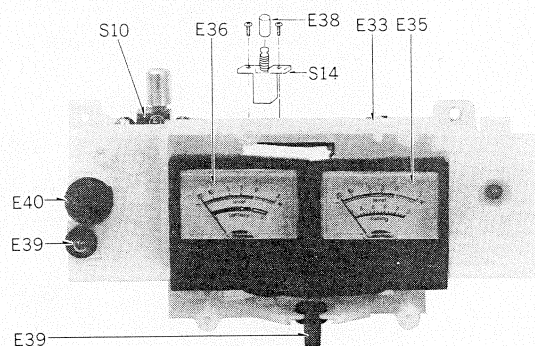
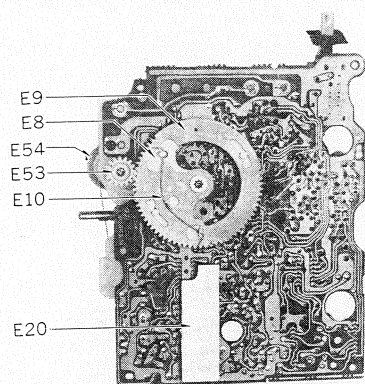
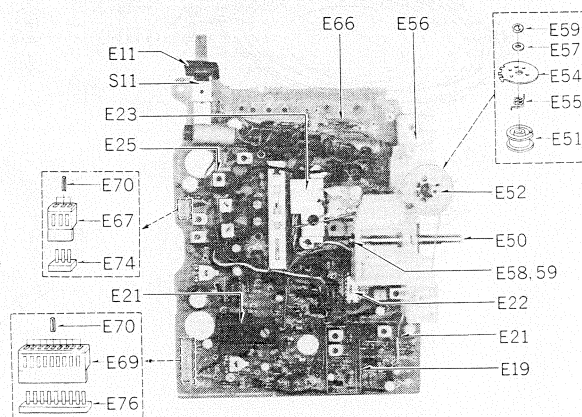
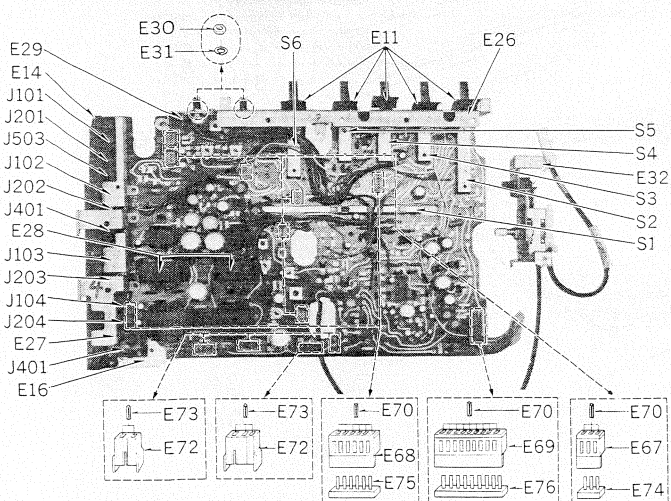
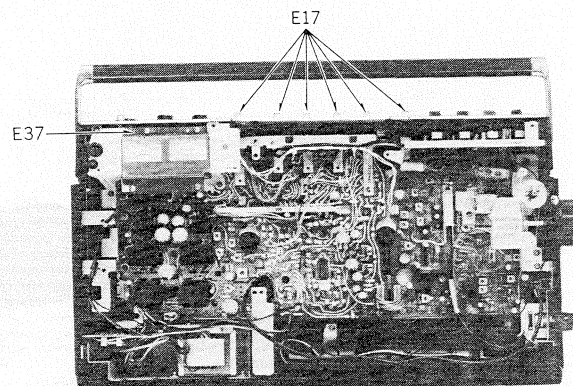
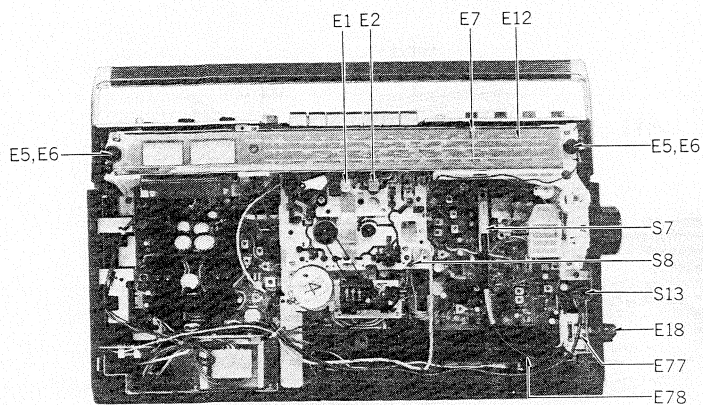
EXPLODED VIEWS



CABINET PARTS



ELECTRICAL PARTS LOCATION



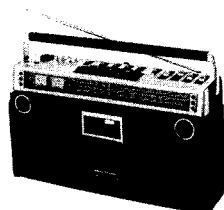
※ The locations of E3, 4 are shown in the chart of cabinet parts.

Printed in Japan.

REPLACEMENT PARTS LIST

MODEL RS-4350LJ (National Panasonic)

NOTE: S indicated that only parts specified by the manufacturer be used for safety.



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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
		MECHANICAL PARTS		
M1	QBP1722	Retainer Spring for Base Plate	1	
M2	XTN26+5B	Tapping Screw $\oplus 2.6 \times 5$	10	
M3	QBN1488	Pressure Roller Spring	1	
M4	XSN2+10	Screw $\oplus 2 \times 10$	3	
M5	QHQ1226	Head Adjustment Screw	1	
M7	QMC0061	Erase Head Spacer	1	
M8	QBN1481	Pressure Roller Spring-1	1	
M9	QML3048	Operating Lever	1	
M10	QML3047	Protective Lever	1	
M11	QBW2008	Poly Washer	9	
M12	QBN1515	Connection Spring	1	
M13	XUB4FT	Stop Ring 4 ϕ (C-Type)	1	
M14	QBN1480	Pause Lock Spring	1	
M15	QML2898	Pause Lock Lever	1	
M16	QDK1012	Steel Ball	4	
M17	QBW2046	Poly Washer	2	
M18	QXL1133B	Change Lever Assembly	1	
M19	XTN3+10B	Tapping Screw $\oplus 3 \times 10$	6	
M20	QML3051	Erase Safety Lever	1	
M21	QBC1193	Safety Lever Spring	1	
M22	QBC1278	Head Adjustment Spring	1	
M23	QMK1612	Head Base Plate	1	
M24	QBN1513	Idler Spring	1	
M25	QBN1514	Timer Spring	1	
M26	QXL1057	Pressure Roller Assembly	1	
M27	QBP1723	Click Spring	1	

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
M28	QML3050	Eject Arm	1	
M29	QBC1228	Operation Rod Spring	1	
M30	QXI0098	Takeup Idler Assembly	1	
M31	QMG0042	Operation Guide	1	
M32	XTN26+8B	Tapping Screw $\oplus 2.6 \times 8$	1	
M33	QML3124	Lock Release Lever	1	
M34	QML3054	Pause Lever	1	
M35	QBP1664	Operation Rod Spring	1	
M36	QBN1530	Pause Spring	1	
M37	QXG1026	Auto-Stop Gear Assembly	1	
M38	QXL1037	Gear Lever Assembly	1	
M38-1	QBT1682	Lock Keeping Spring	1	
M39	QML3049	Cue Lever	1	
M40	QML3040	Cam Lever	1	
M41	QDG1096	Cam Gear	1	
M42	QXL1055	Auto-Stop Lever Assembly	1	
M43	QML3042	Auto-Stop Prevention Lever	1	
M44	QXR0275	Lock Rod Assembly	1	
M45	QBN1531	Lock Release Spring	1	
M46	QXD0068	Supply Reel Table	1	
M47	QBC1279	Back Tension Spring	1	
M48	QXD0067	Takeup Reel Table	1	
M49	QXG1027	Fast Forward Gear Assembly	1	
M49-1	XUB4FT	Stop Ring 4 ϕ (C-Type)	1	
M49-2	QBN1517	Fast Forward Arm Spring	1	
M50	S QXL1100	Memory ON/OFF Lever Assembly	1	
M51	QBN1542	Memory ON/OFF Lever Spring	1	
M52	QBN1543	Reset Support Spring	1	
M53	QMD0015	Brake Cam	1	
M54	QBT1833	Brake Cam Spring	1	
M55	QBS1110	Connection Wire	1	
M56	XSN3+5S	Screw $\oplus 3 \times 5$	1	
M57	QXA0617	Counter Angle Assembly	1	
M58	QML3183	Change Lever	1	
M59	QDB0169	Counter Belt	1	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
M60	QDC0090	Counter	1		R11	ERD25TJ224	Carbon Resistor 220KΩ 1/4W	1	
M61	SI MHI5E9RDP A	DC Motor	1		R12, 13	ERD25TJ104	" 100KΩ 1/4W	2	
M62	QBG1553	Cushion Rubber	1		R14	ERD25TJ331	" 330Ω 1/4W	1	
M63	SI QML3038	Switch Arm	1		R15	ERD25TJ102	" 1KΩ 1/4W	1	
M64	QBT1489	Auto-Stop Spring	1		R16	ERD25TJ821	" 820Ω 1/4W	1	
M65	QXR0314	Pause Rod Assembly	1		R17	ERD25TJ271	" 270Ω 1/4W	1	
M66	QXR0318	Record Rod Assembly	1		R18, 19	ERD25TJ470	" 47Ω 1/4W	2	
M67	QXR0313	Playback Rod Assembly	1		R20	ERD25TJ220	" 22Ω 1/4W	1	
M68	QXR0312	Rewind Rod Assembly	1		R21	ERD25TJ103	" 10KΩ 1/4W	1	
M69	QXR0311	Fast Forward Rod Assembly	1		R22	ERD25TJ152	" 1.5KΩ 1/4W	1	
M70	QXR0310	Stop Rod Assembly	1		R23	ERD25TJ474	" 470KΩ 1/4W	1	
M71	QXR0309	Eject Rod Assembly	1		R24	ERD25TJ391	" 390Ω 1/4W	1	
M72	QBP1662	Lock Rod Spring	1		R25	ERD25TJ332	" 3.3KΩ 1/4W	1	
M73	QXF0123	Flywheel	1		R26	ERD25TJ470	" 47Ω 1/4W	1	
M74	QDB0219	Flywheel Belt	1		R27	ERD25TJ473	" 47KΩ 1/4W	1	
M75	QXH0239	Flywheel Retainer	1		R28	ERD25TJ470	" 47Ω 1/4W	1	
M76	XTN3+15B	Tapping Screw $\oplus 3 \times 15$	1		R29	ERD25TJ272	" 2.7KΩ 1/4W	1	
M77	QBG1539	Rubber Cushion for Motor	3		R30	ERD25TJ682	" 6.8KΩ 1/4W	1	
M78	QHQ1223	Motor Holding Screw	3		R31	ERD25TJ153	" 15KΩ 1/4W	1	
M79	QXP0513	Motor Pulley Assembly	1		R32	ERD25TJ470	" 47Ω 1/4W	1	
M79-1	XSN2+3	Screw $\oplus 2 \times 3$	1		R33	ERD25TJ221	" 220Ω 1/4W	1	
M80	QMA2676	Belt Guide	1		R34	ERD25TJ103	" 10KΩ 1/4W	1	
M81	QBN1548	Change Lever Spring	1		R35	ERD25TJ152	" 1.5KΩ 1/4W	1	
M82	QBT1753DM	Playback Spring	1		R36	ERD25TJ223	" 22KΩ 1/4W	1	
M83	QML3200	Record/Playback Change Lever	1		R37	ERD25TJ563	" 56KΩ 1/4W	1	
		RESISTORS			R38	ERD25TJ473	" 47KΩ 1/4W	1	
R2	ERD25TJ104	Carbon Resistor 100KΩ 1/4W	1		R39	ERD25TJ274	" 270KΩ 1/4W	1	
R3	ERD25TJ103	" 10KΩ 1/4W	1		R40	ERD25TJ154	" 150KΩ 1/4W	1	
R4	ERD25TJ562	" 5.6KΩ 1/4W	1		R41	ERD25TJ104	" 100KΩ 1/4W	1	
R5	ERD25TJ471	" 470Ω 1/4W	1		R42, 43	ERD25TJ102	" 1KΩ 1/4W	2	
R6	ERD25TJ221	" 220Ω 1/4W	1		R44	ERD25TJ103	" 10KΩ 1/4W	1	
R7, 8	ERD25TJ102	" 1KΩ 1/4W	2		R45	ERD25TJ471	" 470Ω 1/4W	1	
R9	ERD25TJ332	" 3.3KΩ 1/4W	1		R46	ERD25TJ102	" 1KΩ 1/4W	1	
R10	ERD25TJ470	" 47Ω 1/4W	1		R47, 48	ERD25TJ472	" 4.7KΩ 1/4W	2	
					R49	ERD25TJ471	" 470Ω 1/4W	1	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
R50	ERD25TJ122	Carbon Resistor 1.2K Ω 1/4W	1		R501	S ERG12ANJ470	Metal-oxide Resistor 47 Ω 1/2W	1	
R51	ERD25TJ103	" 10K Ω 1/4W	1		R510, 512	S ERG12ANJ330	" 33 Ω 1/2W	2	
R52	ERD25TJ272	" 2.7K Ω 1/4W	1		R514	S ERG12ANJ100	" 10 Ω 1/2W	1	
R53	ERD25TJ822	" 8.2K Ω 1/4W	1		R515	ERD14TG2502	Carbon Resistor 25K Ω 1/4W	1	
R54	ERG12ANJ220	Metal-oxide Resistor 22 Ω 1/2W	1				VARIABLE RESISTORS		
R55	ERD25TJ391	Carbon Resistor 390 Ω 1/4W	1		VR1, 2	EVLS3AA00B13	Semi-fixed Variable Resistor 1K Ω (B)	2	
R56	ERD25TJ330	" 33 Ω 1/4W	1		VR101	EVLS3AA00B13	" 1K Ω (B)	1	
R57	ERD25TJ470	" 47 Ω 1/4W	1		VR102, 103, 202, 203				
R101	ERD25TJ100	" 10 Ω 1/4W	1			EVBV07D20A54	Variable Resistor 50K Ω (A)	2	
R104	ERD25TJ220	" 22 Ω 1/4W	1		VR104, 204	EVBV1PD20A54	" 50K Ω (A)	1	
R105	ERD25TJ564	" 560K Ω 1/4W	1		VR105	EVH8HAF15A54	" 50K Ω (A)	1	
R107	ERD25TJ682	" 6.8K Ω 1/4W	1		VR201	EVLS3AA00B13	Semi-fixed Variable Resistor 1K Ω (B)	1	
R108, 109	ERD25TJ154	" 150K Ω 1/4W	2		VR205	EVH8HAF15A54	" 50K Ω (A)	1	
R118	ERD25TJ471	" 470 Ω 1/4W	1		VR301, 302	EVLS3AA00B15	" 100K Ω (B)	2	
R130	ERD25TJ562	" 5.6K Ω 1/4W	1		VR303	EVLS3AA00B53	" 5K Ω (B)	1	
R153	S ERX12ANJR47	Metal-oxide Resistor 0.47 Ω 1/2W	1		VR401	EVAV14D20G54	Variable Resistor 50K Ω (G)	1	
R154	ERG12ANJ820	" 82 Ω 1/2W	1				CAPACITORS		
R157	ERG12ANJ151	" 150 Ω 1/2W	1		C3	ECCD1H120KC	Ceramic Capacitor 4pF	1	
R161	ERD25TJ121	Carbon Resistor 120 Ω 1/4W	1		C4	ECCD1H150KC	" 15pF	1	
R164	ERD25TJ223	" 22K Ω 1/4W	1		C5	ECCD1H101KD	" 100pF	1	
R202	ERD25TJ100	" 10 Ω 1/4W	1		C7	ECCD1H330KC	" 33pF	1	
R204	ERD25TJ220	" 22 Ω 1/4W	1		C8	ECCD1H020CD	" 2pF	1	
R205	ERD25TJ564	" 560 Ω 1/4W	1		C9	ECKD1H103MD	" 0.022 μ F	1	
R207	ERD25TJ682	" 6.8 Ω 1/4W	1		C10	ECEA1AS101	Electrolytic Capacitor 100 μ F	1	
R208, 209	ERD25TJ154	" 150K Ω 1/4W	2		C11, 12	ECKD1H223MD	Ceramic Capacitor 0.022 μ F	2	
R218	ERD25TJ471	" 470 Ω 1/4W	1		C13	ECCD1H180KC	" 18pF	1	
R230	ERD25TJ562	" 5.6K Ω 1/4W	1		C14	ECCD1H040CD	" 4pF	1	
R253	S ERX12ANJR47	Metal-oxide Resistor 0.47 Ω 1/2W	1		C15	ECCD1H070DC	" 7pF	1	
R254	ERG12ANJ820	" 82 Ω 1/2W	1		C16	ECCD1H270KC	" 27pF	1	
R257	ERG12ANJ151	" 150 Ω 1/2W	1		C17, 18	ECKD1H103MD	" 0.01 μ F	2	
R261	ERD25TJ121	Carbon Resistor 22K Ω 1/4W	1		C19	ECKD1H223ZF	" 0.022 μ F	1	
R264	ERD25TJ223	" 5.6K Ω 1/4W	1		C20	ECCD1H040CD	" 4pF	1	
R303	ERX12ANJ1R0	Metal-oxide Resistor 1 Ω 1/2W	1		C21	ECQS1221JW	Styrol Capacitor 220pF	1	
R307	S ERX12ANJ8R2	" 8.2 Ω 1/2W	1						
R401	ERC14GK106	Solid Resistor 10M Ω 1/4W	1						

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C22	ECQS1151JW	Styrol Capacitor	150pF	1	C62	ECEA1HS100	Electrolytic Capacitor	10 μ F	1
C23	ECCD1H070DC	Ceramic Capacitor	7pF	1	C63	ECEA1JS4R7	"	4.7 μ F	1
C24	ECQS1361JW	Styrol Capacitor	360pF	1	C64, 65	ECKD1H103MD	Ceramic Capacitor	0.01 μ F	2
C25	ECCD1H120KC	Ceramic Capacitor	12pF	1	C66	ECEA50ZR1	Electrolytic Capacitor	1 μ F	1
C26	ECQS1392KW	Styrol Capacitor	3900pF	1	C67	ECQM05562KZ	Mylar Capacitor	0.0056 μ F	1
C27	ECCD1H100KC	Ceramic Capacitor	10pF	1	C68, 69	ECEA50VR3	Electrolytic Capacitor	3.3 μ F	2
C28	ECCD1H070DC	"	7pF	1	C70	ECEA16V47	"	47 μ F	1
C29	ECKD1H223MD	"	0.022 μ F	1	C71	ECEA16V330	"	330 μ F	1
C30	ECCD1H100KC	"	10pF	1	C72	ECEA0JS222	"	2200 μ F	1
C31	ECKD1H223MD	"	0.022 μ F	1	C73	ECEA16V330	"	330 μ F	1
C32	ECKD1H102MD	"	0.001 μ F	1	C74	ECQM05223KZ	Mylar Capacitor	0.022 μ F	1
C33	ECCD1H103MD	"	0.01 μ F	1	C75, 76	ECEA50ZR47	Electrolytic Capacitor	0.47 μ F	2
C34	ECEA50Z1	Electrolytic Capacitor	1 μ F	1	C77	ECQM05223KZ	Mylar Capacitor	0.022 μ F	1
C35	ECCD1H330KD	Ceramic Capacitor	33pF	1	C78	ECCD1H015CD	Ceramic Capacitor	1.5pF	1
C36, 37	ECKD1H223MD	"	0.022 μ F	2	C79	ECCD1H150KC	"	15pF	1
C38	ECKD1H103MD	"	0.01 μ F	1	C81	ECQM05473KZ	Mylar Capacitor	0.022 μ F	1
C39	ECCD1H470KC	"	47pF	1	C83	ECCD1H120KC	Ceramic Capacitor	12pF	1
C40	ECKD1H103MD	"	0.01 μ F	1	C101	ECEA50ZR1	Electrolytic Capacitor	1 μ F	1
C41	ECEA0JS471	Electrolytic Capacitor	470 μ F	1	C102	ECEA50ZR22	"	0.22 μ F	1
C42	ECKD1H223MD	Ceramic Capacitor	0.022 μ F	1	C103	ECEA50Z3R3	"	3.3 μ F	1
C44	ECCD1H470KC	"	47pF	1	C104	ECEA50ZR33	"	0.33 μ F	1
C45	ECEA1CS330	Electrolytic Capacitor	33 μ F	1	C105	ECCD1H390KC	Ceramic Capacitor	39pF	1
C46	ECCD1H100KC	Ceramic Capacitor	10pF	1	C106	ECKD1H102MD	"	0.001 μ F	1
C47	ECKD1H102MD	"	0.001 μ F	1	C107	ECEA50ZR33	Electrolytic Capacitor	0.33 μ F	1
C48	ECKD1H223MD	"	0.022 μ F	1	C108	ECEA50Z3R3	"	3.3 μ F	1
C49	ECQM05223KZ	Mylar Capacitor	0.022 μ F	1	C109	ECEA50Z1	"	1 μ F	1
C50	ECCD1H181KD	Ceramic Capacitor	180pF	1	C110	ECCD1H221KD	Ceramic Capacitor	220pF	1
C51	ECKD1H223MD	"	0.022 μ F	1	C111	ECKD1H102MD	"	0.001 μ F	1
C52	ECEA1CS330	Electrolytic Capacitor	33 μ F	1	C112	ECCD1H390KC	"	39pF	1
C53	ECCD1H150KC	Ceramic Capacitor	15pF	1	C113, 114, 115				
C54, 55, 56, 57, 58						ECEA1HS100	Electrolytic Capacitor	10 μ F	3
	ECKD1H223MD	"	0.022 μ F	5	C116	ECEA1CS330	"	33 μ F	1
C59	ECCD1H151KD	"	150pF	1	C117	ECEA50ZR22	"	0.22 μ F	1
C60	ECEA1AS101	Electrolytic Capacitor	100 μ F	1	C118	ECQM05682KZ	Mylar Capacitor	0.0068 μ F	1
C61	ECKD1H223MD	Ceramic Capacitor	0.022 μ F	1	C119	ECQM05562KZ	"	0.0056 μ F	1

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C120	ECQM05223KZ	Mylar Capacitor 0.022 μ F	1		C210	ECCD1H221KD	Ceramic Capacitor 220pF	1	
C121	ECQM05103KZ	" 0.01 μ F	1		C211	ECKD1H102MD	" 0.001 μ F	1	
C122	ECQM05562KZ	" 0.0056 μ F	1		C212	ECCD1H390KC	" 39pF	1	
C123	ECCD1H221KD	Ceramic Capacitor 220pF	1		C213, 214, 215				
C124	ECQM05332KZ	Mylar Capacitor 0.0033 μ F	1			ECEA1HS100	Electrolytic Capacitor 10 μ F	3	
C125	ECKD1H821MD	Ceramic Capacitor 820pF	1		C216	ECEA1CS330	" 33 μ F	1	
C126	ECQM05223MZ	Mylar Capacitor 0.022 μ F	1		C217	ECEA50ZR22	" 0.22 μ F	1	
C127	ECEA50ZR22	Electrolytic Capacitor 0.22 μ F	1		C218	ECQM05682KZ	Mylar Capacitor 0.0068 μ F	1	
C128	ECQM05562MZ	Mylar Capacitor 0.0056 μ F	1		C219	ECQM05562KZ	" 0.0056 μ F	1	
C129	ECQM05473MZ	" 0.047 μ F	1		C220	ECQM05223KZ	" 0.022 μ F	1	
C130	ECQM05102MZ	" 0.001 μ F	1		C221	ECQM05103KZ	" 0.01 μ F	1	
C131	ECEA50V3R3	Electrolytic Capacitor 3.3 μ F	1		C222	ECQM05562KZ	" 0.0056 μ F	1	
C132	ECEA50ZR22	" 0.22 μ F	1		C223	ECCD1H221KD	Ceramic Capacitor 220pF	1	
C133	ECKD1H102MD	Ceramic Capacitor 0.001 μ F	1		C224	ECQM05332KZ	Mylar Capacitor 0.0033 μ F	1	
C134, 135	ECEA50V3R3	Electrolytic Capacitor 3.3 μ F	2		C225	ECKD1H821MD	Ceramic Capacitor 820pF	1	
C136	ECEA1AS101	" 100 μ F	1		C226	ECQM05223MZ	Mylar Capacitor 0.022 μ F	1	
C137	ECCD1H390KC	Ceramic Capacitor 39pF	1		C227	ECEA50ZR22	Electrolytic Capacitor 0.22 μ F	1	
C138	ECKD1H102MD	" 0.001 μ F	1		C228	ECQM05562MZ	Mylar Capacitor 0.0056 μ F	1	
C139	ECEA1AS221	Electrolytic Capacitor 220 μ F	1		C229	ECQM05473MZ	" 0.047 μ F	1	
C140, 141, 142, 143					C230	ECQM05102MZ	" 0.001 μ F	1	
	ECKD1H103MD	Ceramic Capacitor 0.01 μ F	4		C231	ECEA50V3R3	Electrolytic Capacitor 3.3 μ F	1	
C144	ECEA1JS4R7	Electrolytic Capacitor 4.7 μ F	1		C232	ECEA50ZR22	" 0.22 μ F	1	
C145	ECEA16N4R7	" 4.7 μ F	1		C233	ECKD1H102MD	Ceramic Capacitor 0.001 μ F	1	
C146	ECQM05473KZ	Mylar Capacitor 0.047 μ F	1		C234, 235	ECEA50V3R3	Electrolytic Capacitor 3.3 μ F	2	
C147	ECQM05104KZ	" 0.1 μ F	1		C236	ECEA1AS101	" 100 μ F	1	
C148	ECQM05473KZ	" 0.047 μ F	1		C237	ECCD1H390KC	Ceramic Capacitor 39pF	1	
C201	ECEA50ZR1	Electrolytic Capacitor 1 μ F	1		C238	ECKD1H102MD	" 0.001 μ F	1	
C202	ECEA50ZR22	" 0.22 μ F	1		C239	ECEA1AS221	Electrolytic Capacitor 220 μ F	1	
C203	ECEA50Z3R3	" 3.3 μ F	1		C240, 241, 242, 243				
C204	ECEA50ZR33	" 0.33 μ F	1			ECKD1H103MD	Ceramic Capacitor 0.01 μ F	4	
C205	ECCD1H390KC	Ceramic Capacitor 39pF	1		C244	ECEA1JS4R7	Electrolytic Capacitor 4.7 μ F	1	
C206	ECKD1H102MD	" 0.001 μ F	1		C245	ECEA16N4R7	" 4.7 μ F	1	
C207	ECEA50ZR33	Electrolytic Capacitor 0.33 μ F	1		C246	ECQM05473KZ	Mylar Capacitor 0.047 μ F	1	
C208	ECEA50Z3R3	" 3.3 μ F	1		C247	ECQM05104KZ	" 0.1 μ F	1	
C209	ECEA50Z1	" 1 μ F	1		C248	ECQM05473KZ	" 0.047 μ F	1	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C301, 302	ECKD1H821MD	Ceramic Capacitor 820pF	2	
C303	ECQS1332KW	Styrol Capacitor 3300pF	1	
C304	ECQM05682KZ	Mylar Capacitor 0.0068μF	1	
C305	ECQM05153KZ	" 0.015μF	1	
C306	ECQM05682KZ	" 0.0068μF	1	
C307	ECQM05123KZ	" 0.012μF	1	
C401	ECEA25Z4R7	Electrolytic Capacitor 4.7μF	1	
C402	ECEA50Z2R2	" 2.2μF	1	
C501	ECEA1CS222	" 2200μF	1	
C502	ECEA1CS471	" 470μF	1	
C503, 504	ECEA1AS101	" 100μF	2	
C505	ECKD1H103MD	Ceramic Capacitor 0.01μF	1	
C506	ECEA1CS221	Electrolytic Capacitor 220μF	1	
C507	ECEA1AS102	" 1000μF	1	
C508	ECEA1CS221	" 220μF	1	
C509	ECEA1CS471	" 470μF	1	
C510	ECEA0JS471	" 470μF	1	
C511	ECKD1H103MD	Ceramic Capacitor 0.01μF	1	
C512	ECEA1AS221	Electrolytic Capacitor 220μF	1	
C513	ECEA1CS222	" 2200μF	1	
C514	ECEA1CS102	" 1000μF	1	
C515	ECEA1AS102	" 1000μF	1	
C516	ECEA1CS102	" 1000μF	1	
C517	ECEA1AS102	" 1000μF	1	
C519	ECEA1CS331	" 330μF	1	
<u>VARIABLE CAPACITORS</u>				
VC1, 2, 3, 4, CT1, 2, 3, 4				
	QCVCB42C513T	Variable Capacitor	1	
CT6	QCV1020W	Trimmer Capacitor	1	
CT7, 8	QCV2120	"	1	
<u>COMBINATION PARTS</u>				
CF1, 2	QVF107MA5W	Ceramic Filter (FM 10.7MHz)	2	
CF3	QCRZZ455A7W	Ceramic Filter (AM 455 kHz)	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
CF3	QCRZZ470A7W	Ceramic Filter (AM 470kHz)	1	for United Kingdom only
Z1	RXABPF10801H	Combination Part	1	
Z2	EXA5DL04C	"	1	
Z501	B48C0802	"	1	
<u>TRANSISTORS</u>				
Tr1, 2, 3	2SC828	Transistor	3	
Tr4	2SC829	"	1	
Tr5, 6	2SC828	"	2	
Tr101	2SC644	"	1	
Tr102, 103, 104			3	
	2SC1684	"	2	
Tr105, 106	2SC2113	"	2	
Tr201	2SC644	"	1	
Tr202, 203, 204				
	2SC1684	"	3	
Tr205, 206	2SC2113	"	2	
Tr301	2SC1383	"	1	
Tr501, 502, 503, 504				
	2SC828	"	4	
<u>INTEGRATED CIRCUITS</u>				
IC1	RVIUPC1018CE	Integrated Circuit	1	
IC2	M5132P	"	1	
IC401	M5130PA	"	1	
<u>DIODES</u>				
D1	0A90Z	Diode	1	
D2	1S2687AAT	Diode (Varicap)	1	
D3, 4, 5, 6	0A90Z	Diode	4	
D7, 8	20A90	"	2	
D9, 10, 11	0A90Z	"	3	
D12	TLR103	LED	1	
D101, 201	0A90Z	Diode	2	
D102, 202	1S2473T	"	2	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
D501, 502, 503, 504, 505				
	 SM102LF	Rectifier	5	
D506	MA1056	Zener Diode	1	
		<u>VARISTORS</u>		
VS1, 2	MV121LF	Varistor	2	
VS101, 201	QVDM8513ART	"	2	
VS301	MV121LF	"	1	
		<u>TRANSFORMERS</u>		
T1	RLI4M101	FM IFT (1st)	1	
T2	RLI4M504	FM IFT (Det.)	1	
T3	RLI4M506	"	1	
T4	QLI2M102M	AM IFT	1	
T5	RLI2M402	"	1	
T6	RLI4M103	FM Trap Coil	1	
T7	QLM1Z1KW	MPX Coil	1	
T8, 9	QLM1M2	19kHz Trap Coil	2	
T10	QLA3M8	SW Antenna Coil	1	
T11	QLO1M4M	LW Oscillator Transformer	1	
T12	QLO2M14M	MW Oscillator Transformer	1	
T13	QLO3M31M	SW Oscillator Transformer	1	
T101, 201	QLT3F10	Input Transformer	2	
T102, 202	QLT2H22	Output Transformer	2	
T501	 QLPZ10BL	Power Transformer	1	
		<u>COILS</u>		
L1	QLQY75S7W	FM Trap Coil	1	
L3	RLD4Y44W	FM Tuning Coil	1	
L4	QLD4M003	FM Oscillator Coil	1	
L5, 6	QLF6D60	MW/LW Antenna Coil	1	
L7	QLQY75S7W	SW Trap Coil	1	
L8	QLQY30S6W	FM/SW Trap Coil	1	
L101, 201	QLQM1531	Bias Trap Coil	2	
L301	QLB0180	Bias Oscillator Coil	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
		<u>SWITCHES</u>		
S1	QSSG203	Slide Switch (Record/Playback)	1	
S2	QST8305T	Lever Switch (Function Selector)	1	
S3, 4, 5	QST4214T	Lever Switch (Record Mode, Stereo/Mono, Normal/CrO2)	3	
S6	QST6201T	Lever Switch (Input Selector)	1	
S7	QSS8402	Band Selector Switch	1	
S8	 QSB0186	Leaf Switch (Motor ON/OFF)	1	
S9	Refer to J502	AC/DC Selector Switch	1	
S10	QSW1110H	Push Switch (Dial Light Switch)	1	
S11	 QST4214T	AFC Switch	1	
S12	QSR1407T	Rotary Switch (Voltage Selector)	1	
S13	QSS1048T	Slide Switch (Beat Proof Switch)	1	
S14	QSW2101	AC Power Switch	1	for United Kingdom only
		<u>JACKS</u>		
J101, 201	QJA0153	M3 Jack with Switch (MIC)	1	
J102, 103, 202, 203, 401				
	QEJ5010HM	Jack Unit (LINE IN/OUT, DIN)	1	
J104, 204	QJA0154	M3 Jack (EXT SP)	1	
J402	QJA0253H	TMS Jack (HEADPHONE)	1	
J501, 502	 QJS0329	AC/DC Socket with S9	1	
J503	QJA0156	M2 Jack (REMOTE)	1	
		<u>ELECTRICAL PARTS</u>		
E1	QWY4113Z	Record/Playback Head	1	
E2	QWY2122ZA	Erase Head	1	
E3	EAS16P905W	Speaker (Woofer)	2	
E4	EAS3KH01SB	Speaker (Tweeter)	2	
E5	WM034Z114	Built-in Microphone	2	
E6	QBG1526B	Microphone Cover	2	
E7	QYL0008	Dial Indicator	1	
E8	QDG1117	Gear Drum-A	1	
E9	QDG1118A	Gear Drum-B	1	
E10	QBN1549	Gear Drum Spring	1	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
E11	QBH0148	Switch Shelter	6		E46	RDZ05A	Dial Rope	1	
E12	QGD0202	Dial Scale	1		E47	QDP1497A	Roller-A	1	
E13	QGK2872	Back Board	1		E48	QDP1678	Roller-B	1	
E14	QGJ1324	Jack Board	1		E49	QXA0644	Tension Roller Angle Assembly	1	
E15	XAMQ40P200	Pilot Lamp	2		E50	QMN8014A	Tuning Shaft	1	
E16	QMA3268	Headphone Angle	1		E51	QDP1744	Pulley-B	1	
E17	QGT1420	Lever Switch Knob	1		E52	QMN8015	Pulley Shaft	1	
E18	QYT0310K	Select Knob	1		E53	QDG1119	Drum Driving Gear	1	
E19	QTS1354A	Shield Plate-A for FM	1		E54	QMF1946	Pulley Spring Mount Plate	1	
E20	QTS1417	Shield Plate-B for FM	1		E55	QBN1550	Pulley Spring	1	
E21	QTS1414	Shield Plate for AM	1		E56	QXK2082	Dial Chassis-C Assembly	1	
E22	RMC171YB	Shield Plate for IC	1		E57	QBW2022	Poly Washer 6.2φ	2	
E23	RMC413ZA	Shield Plate for SW	1		E58	QBW2020	Poly Washer 5.2φ	2	
E24	QTS1440	Shield Plate for FM Multi.	1		E59	XUC4FT	Stop Ring 4φ	2	
E25	QTS1443	Shield Plate for FM	1		E60	QMA3180A	Transformer Angle	1	
E26	QMA3179A	Lever Angle	1		E61	S QTW1135	AC/DC Socket Cover	1	
E27	QMA3177	Jack Board Supporter	1		E62	S RUV387ZB	Selector Switch Cover	1	
E28	QTH1125A	Heat Sink	2		E63	QMA3484	Transformer Angle	1	
E29	QMA2705B	Volume Angle	1		E64	S QTF1054	Fuse Holder	2	
E30	QNQ1004	Nut for Volume 8φ	3		E65	S XBA0010	Fuse	1	
E31	QWQ2002	Washer for Volume 8φ	3		E66	S XAN3K	Neon Lamp	1	
E32	QMA3487	Switch Angle	1		E67	QJS1921TN	3P Housing	8	
E33	QMK1769	Dial Chassis-A	1		E68	QJS1922TN	6P Housing	2	
E34	QMA3533	Lamp Angle	1		E69	QJS1923TN	9P Housing	2	
E35	QSL1087RNM	Level Meter-R	1		E70	QJT1054	Contact	51	
E36	QSL1088RNM	Level Meter-L	1		E71	QJS0777	3P Housing	1	
E37	QMA3250	Meter Angle	1		E72	QJS0776	2P Housing	2	
E38	QXB0560	Power Switch Button Assembly	1	for United Kingdom only	E73	QJT1040	Contact	7	
E39	QBG1166	Rubber Bush	2		E74	QJP1921TN	3P Post	8	
E40	QBG1596	LED Cushion	1		E75	QJP1922TN	6P Post	2	
E41	QXK1964	Dial Chassis-B Assembly	1		E76	QJP1923TN	9P Post	2	
E42	QXA0717	Dial Indicator Angle Assembly	1		E77	S QZE0021	Operation Unit (Band Selector)	1	
E43	QDP1743A	Pulley-A	1		E78	QZE0020	Connection Wire Assembly	1	
E44	QBT1837M	Dial Rope Spring	1						
E45	QBJ2167A	Washer	2						

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
		<u>CABINET PARTS</u>			G17	XTW3+10B	Tapping Screw $\oplus 3 \times 10$	9	
G1	QYP0767	Front Panel Assembly	1				<u>ACCESSORIES</u>		
G1-1	QYF0338	Cassette Lid Assembly	1		A1	QFC1104	AC Power Cord	1	
G1-2	QKJ0113A	Cassette Lid Holder	1		A1	QFC1105	"	1	for United Kingdom only
G1-3	QBN8003	Cassette Lid Spring	1		A2	WM2301N	Plug Adaptor	2	
G1-4	QMA2704A	Spring Angle	1		A3	QQT2353	Instruction Book	1	
G1-5	QGK2756	Protection Pole	2		A3	QQT2354	"	1	for United Kingdom only
G2	QYM0501K	Main Case Assembly	1		A4	QFTC07L003NZ	Cassette Tape	1	
G2	QYM0502K	"	1	for United Kingdom only			<u>PACKINGS</u>		
G2-1	QKJ0177A	Hole Cap	1		P1	QPN3742	Inside Carton	1	
G2-2	QKH1131A	Handle-C	2		P2	QPA0328	Cushion-A	1	
G2-3	QYH0078	Handle-B Assembly	1		P3	QPA0397	Cushion-B	1	
G2-4	QKJ0130A	Handle Spacer	2		P4	QPA0398	Cushion-C	1	
G2-5	QBP1684	Handle Retainer Spring	2		P5	QPS0289A	Spacer	1	
G2-6	QBP1735	Handle Retainer	2		P6	XZB50X65A02	Poly Bag	1	
G2-7	QKJ0193	Battery Spacer	2						
G2-8	QBN8009A	Battery Spring	2						
G2-9	QJB0042	Battery Terminal	2						
G2-10	QYD1015A	Battery Cover Assembly	1						
G2-11	QGS2557	Name Plate	1						
G3	SGT1368	Tuning Knob	1						
G4	SGT1345S	Volume Knob	2						
G5	SGT1382S	Slide Volume Knob	4						
G6	XEAQCR343CAY	Rod Antenna	1						
G7	QYQ0275A	Accessory Holder Assembly	1						
G8	QYT0310K	Select Knob	1						
G9	XSN3+10S	Screw $\oplus 3 \times 10$	4						
G10	XWA3B	Spring Washer 3ϕ	5						
G11	XWG3	Flat Washer 3ϕ	5						
G12	XTN3+10B	Tapping Screw $\oplus 3 \times 10$	7						
G13	XSS3+10S	Screw $\oplus 3 \times 10$	2						
G14	XTS3+10BFV	Screw $\oplus 3 \times 10$ (Black)	2						
G15	XTN35+50BFV	Tapping Screw $\oplus 3.5 \times 50$	7						
G16	XSN3+15S	Screw $\oplus 3 \times 15$	1						