

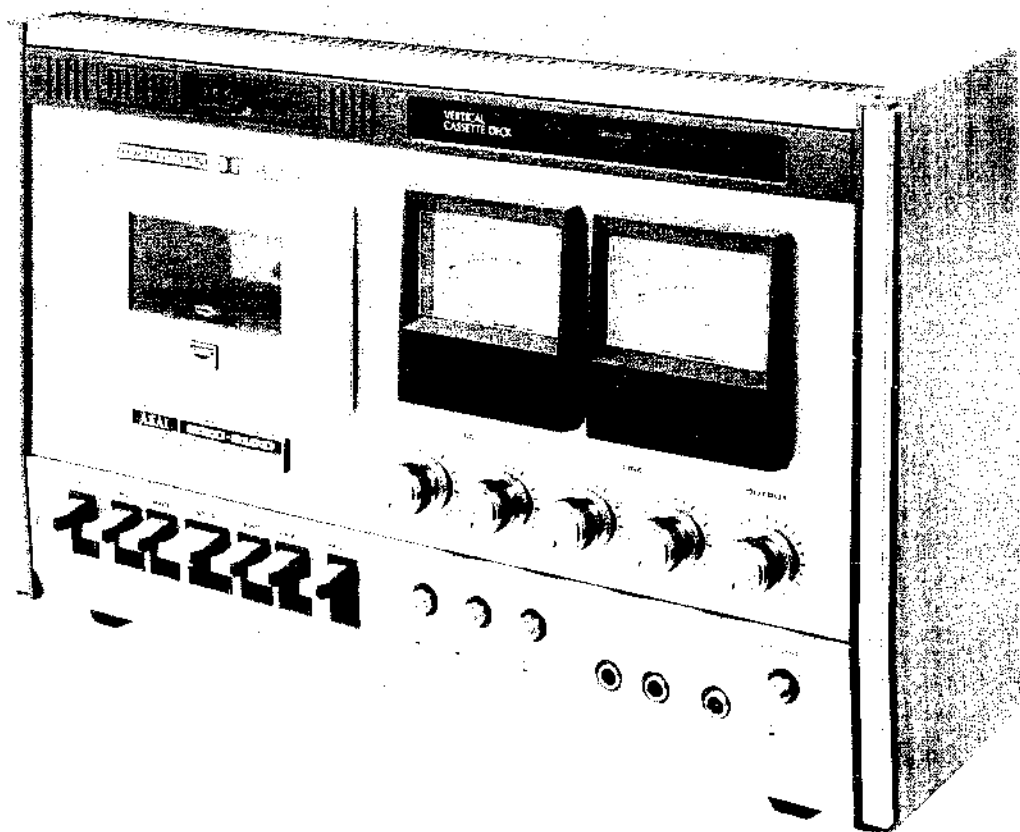
SERVICE MANUAL

PARTS LIST

AKAI CASSETTE TAPE DECK

MODEL **GXC-510D**

ALSO APPLICABLE TO MODEL GXC-505D,
GXC-502D, GXC-500D AND GXC-500



CASSETTE TAPE DECK

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ALSO APPLICABLE TO MODEL GXC-505D, GXC-502D, GXC-500D
CASSETTE TAPE DECKS AND GXC-500 CASSETTE TAPE RECORDER

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SECTION 1

SERVICE MANUAL

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I. SPECIFICATIONS

An asterisk next to a figure indicates the minimum guaranteed performance.

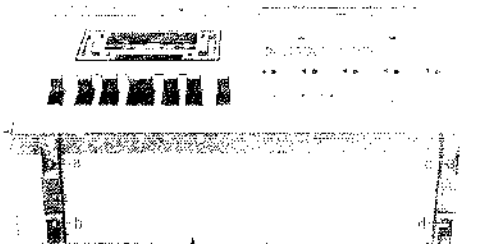
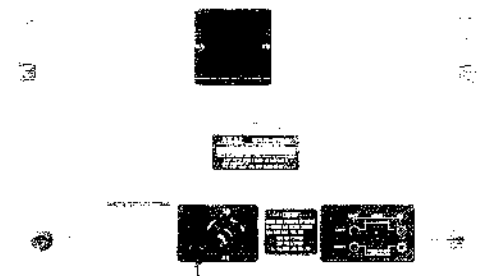
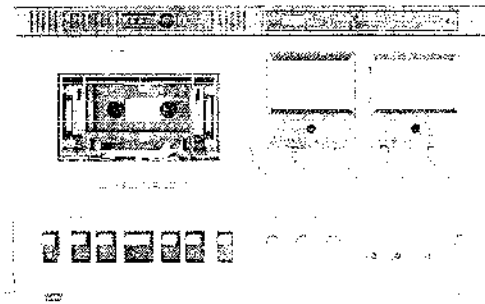
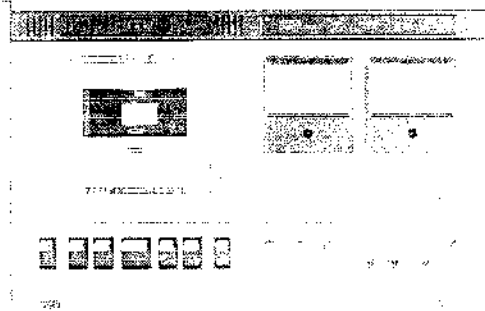
TRACK SYSTEM		4-track 2-channel stereo system
TAPE SPEED		1-7/8 ips. (4.75 cm/sec.) $\pm 1\%$ *1-7/8 ips. (4.75 cm/sec.) $\pm 3\%$
WOW AND FLUTTER		Less than 0.08% W.R.M.S. *Less than 0.24% W.R.M.S.
TOTAL WOW AND FLUTTER		*Less than 0.3% W.R.M.S.
FREQUENCY RESPONSE	CHROME TAPE	30 to 16,000 Hz ± 3 dB *50 to 14,000 Hz ± 4 dB
	LOW NOISE TAPE	30 to 14,000 Hz ± 3 dB *50 to 13,000 Hz ± 4 dB
DISTORTION FACTOR		Less than 1.0% 1,000 Hz "0" VU
TOTAL DISTORTION FACTOR		*Less than 5% CHROME TAPE *Less than 3% LOW NOISE TAPE
PLAYBACK OUTPUT LEVEL	LINE	0.775V(0 ± 2 dB) using a 333 Hz "0" VU recorded tape
	DIN	0.775V(0 ± 2 dB) using a 333 Hz "0" VU recorded tape
		0.55V(-3 ± 2 dB) using a 333 Hz "0" VU recorded tape—MODEL GXC-505D
HEADPHONE OUTPUT		30 mV/8 Ω using a 333 Hz "0" VU recorded tape
INPUTS	MIC	More than 0.5 mV
	LINE	More than 60 mV
	DIN	More than 4 mV
RECORDING PLAYBACK LEVEL	CHROME TAPE	-3 ± 1.5 dB 1,000 Hz "0" VU recording
	LOW NOISE TAPE	0 ± 2 dB 1,000 Hz "0" VU recording
SIGNAL TO NOISE RATIO		Better than 50 dB *Better than 43 dB
TOTAL SIGNAL TO NOISE RATIO		*Better than 40 dB
CROSS TALK		Better than 25 dB 1,000 Hz 3 VU recording
ERASE RATIO		Better than 70 dB
RECORDING BIAS FREQUENCY		61 ± 3 kHz
BIAS LEAK		Less than -20 VU
RECORDING CAPACITY		90 min. stereo recording using a C-90 cassette tape
F.FWD AND RWD. TIME		80 sec. using a C-90 cassette tape
HEADS	RECORDING/PLAYBACK HEAD	4-track 2-channel GX recording/playback head Type: P4-341 Gap: 1.7 microns Impedance: 1,000 Ω $\pm 20\%$ at 1 kHz D.C. Resistance: 190 Ω
	ERASE HEAD	2-track 1-channel erase head Type: ME-136A Gap: 0.3 mm Impedance: 330 Ω $\pm 10\%$ at 50 kHz D.C. Resistance: 8 Ω $\pm 30\%$
MOTOR		Hysteresis Synchronous outer rotor motor Type: HM1-12CS Revolutions: 1,500/1,800 r.p.m. at 50/60 Hz
TRANSISTORS AND P.E.T. (Model GXC-505D shown in parentheses)		2SA628(E) (F) 2(O) 2SC1096(K) (L) 2(I) 2SA733(P) (Q) (R) 1(I) 2SC1312R(G) (H) 6(2) 2SC7114(E) (F) (G) 19(7) 2SC1312S(G) (H) 4(4) 2SC945(P) (Q) (R) 2(I) 2SK30A(GR) 2(O)
DIODES (Model GXC-505D shown in parentheses)		1N34A 8(2) WG599 1(I) 1N4001 4 (4) WG713 1(I) 1S2473VE 18(0) WZ085 2(O) 10D05 1(I) WZ192 1(I)
POWER SUPPLY		100 to 240V A.C. 50/60 Hz for Universal Models 100V A.C. 50/60 Hz for JPN Models 220V A.C. 50 Hz for CEE Models 120V A.C. 60 Hz for CSA Models Notice: CEE, CSA Models come in Model GXC-510D only
POWER CONSUMPTION		20W. . . GXC-510D 16W. . . GXC-505D
DIMENSIONS		414(W) x 257(H) x 132(D)mm (16.4" x 10.1" x 5.2") --- GXC-510D 414(W) x 257(H) x 152 (D)mm (16.4" x 10.1" x 6") --- GXC-505D
WEIGHT		6.8 kg(15 lbs.) --- GXC-510D 6.3 kg(14 lbs.) --- GXC-505D

NOTE: Specifications subject to change without notice.

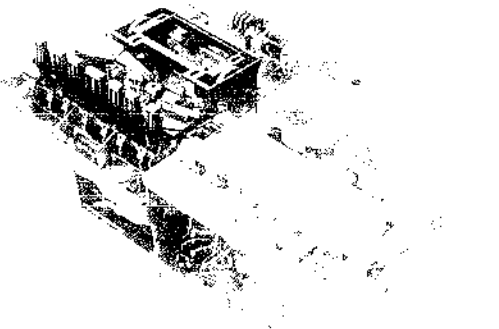
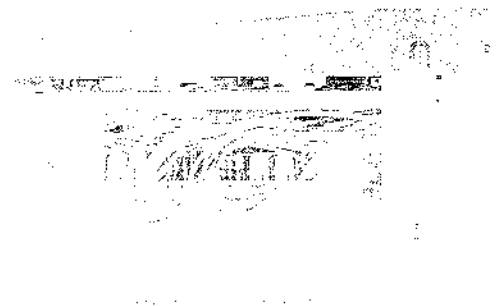
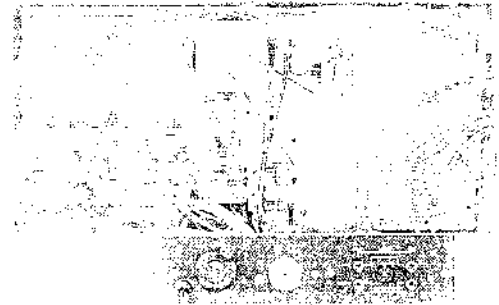
II. DISMANTLING OF UNIT

In case of trouble, the apparatus is dismantled, piece by piece, in the order shown in the figure. (Refer to the address order.)

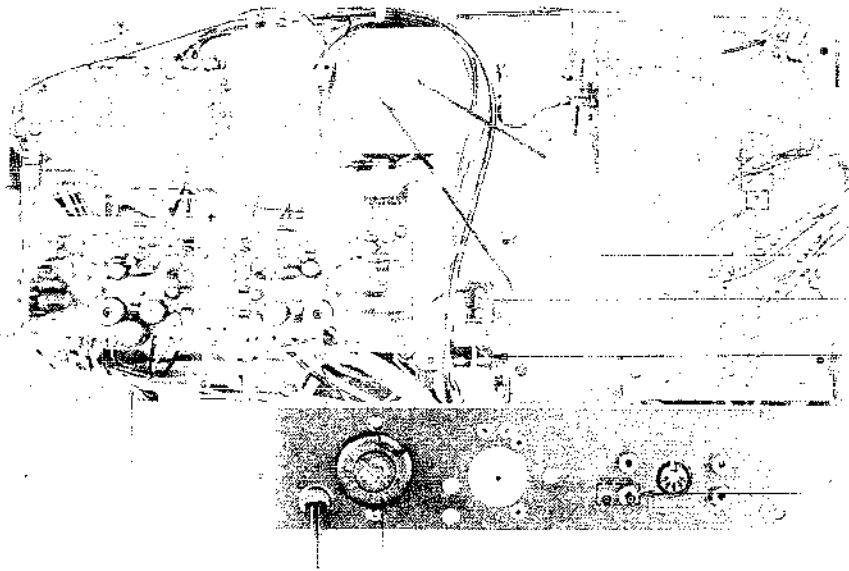
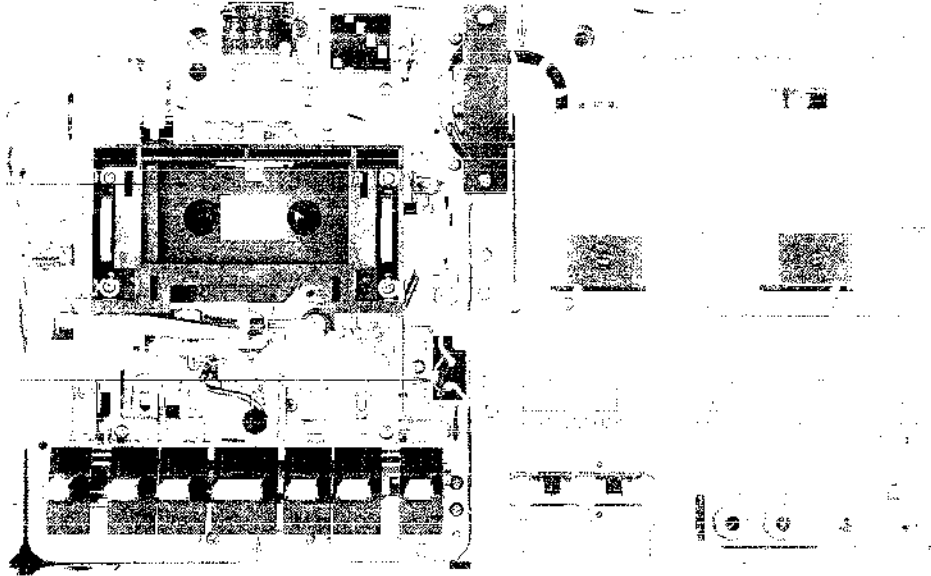
1. FRONT PANEL AND CONTROL PANEL



2. MAIN CHASSIS AND ELECTRONIC MODULES



11. ARRANGEMENT OF PRINCIPAL PARTS



IV. MECHANISM ADJUSTMENTS

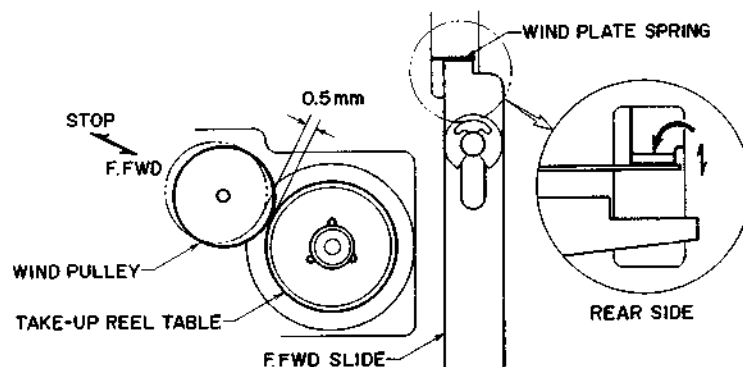


Fig. 1

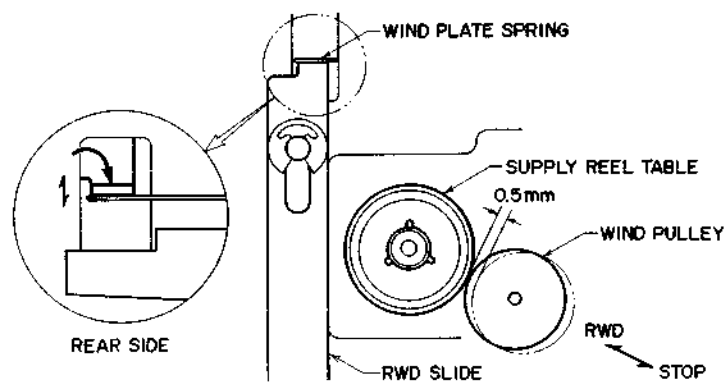


Fig. 2

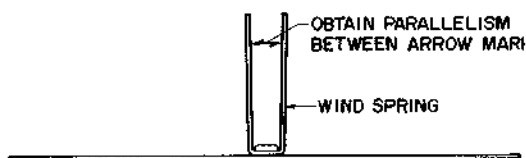


Fig. 3

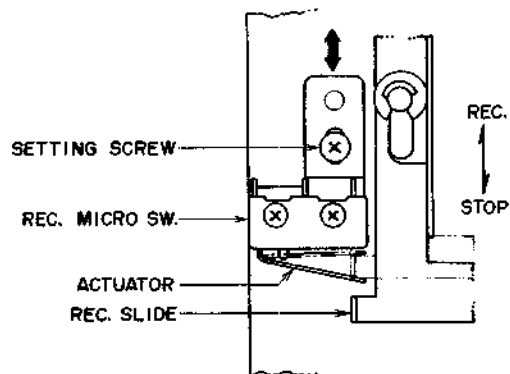


Fig. 4

1. FAST FORWARD SLIDE ADJUSTMENT

(Refer to Fig. 1)

Adjust by bending the F.FWD Slide so that when the F.FWD and STOP Buttons are gently braked simultaneously, the wind pulley separates from the take-up reel table and this gap width is 0.5 mm.

2. REWIND SLIDE ADJUSTMENT

(Refer to Fig. 2)

Adjust by bending the Rewind Slide so that when the RWD and STOP Buttons are gently braked simultaneously, the wind pulley separates from the supply reel table and this gap width is 0.5 mm.

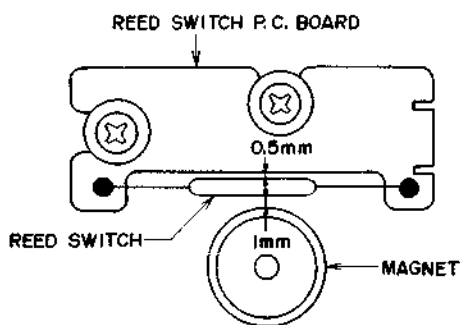


Fig. 5

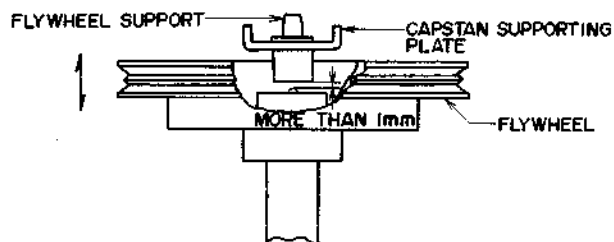


Fig. 6

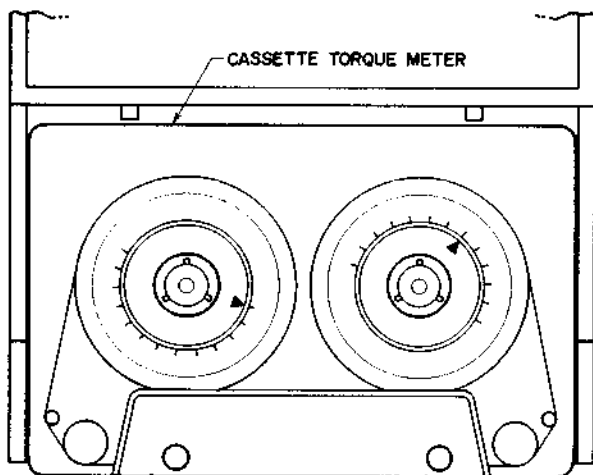


Fig. 7

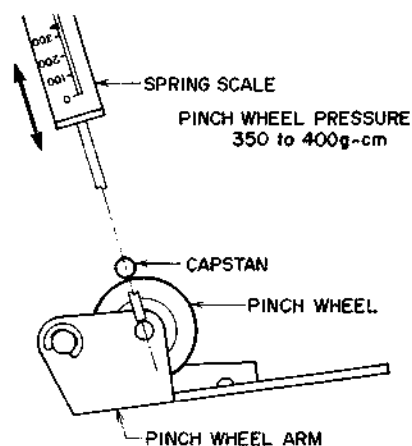


Fig. 8

3. RECORDING MICRO SWITCH POSITION ADJUSTMENT (Refer to Fig. 4)

Set deck to recording mode and move micro switch as indicated by the arrow mark in the figure. Adjust so that the recording slide pushed the micro switch actuator and the micro switch is completely turned ON.

NOTE: The recording slide must not contact the body of the micro switch.

4. REED SWITCH POSITION ADJUSTMENT (Refer to Fig. 5)

Adjust reed switch as shown in Fig. 5.

5. FLYWHEEL VERTICAL LOOSE PLAY CONFIRMATION (Refer to Fig. 6)

Confirm that the gap between the flywheel and flywheel support is more than 1 mm as shown in Fig. 6.

6. TAKE-UP TORQUE AT VARIOUS MODES AND TORQUE MEASURING METHOD

(Refer to Fig. 7)

As shown in Fig. 7, set a cassette torque meter on cassette base and take a reading of the indication (▲ mark) at each respective mode.

NOTE: Take the torque meter indication value plus 10 gr-cm as deck take up torque.

7. PINCH WHEEL PRESSURE MEASURING METHOD (Refer to Fig. 8)

As shown in Fig. 8, at playback mode, push the pinch wheel arm toward shaft with a spring scale. Return gently and take a reading of the spring scale indication when the pinch wheel contacts the capstan.

V. HEAD ADJUSTMENT

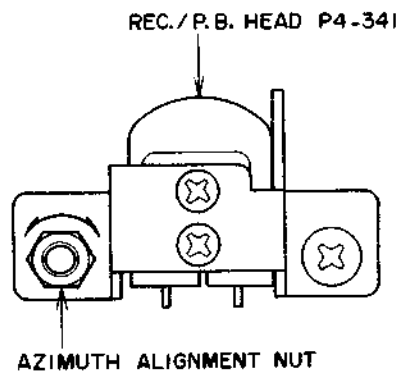


Fig. 9

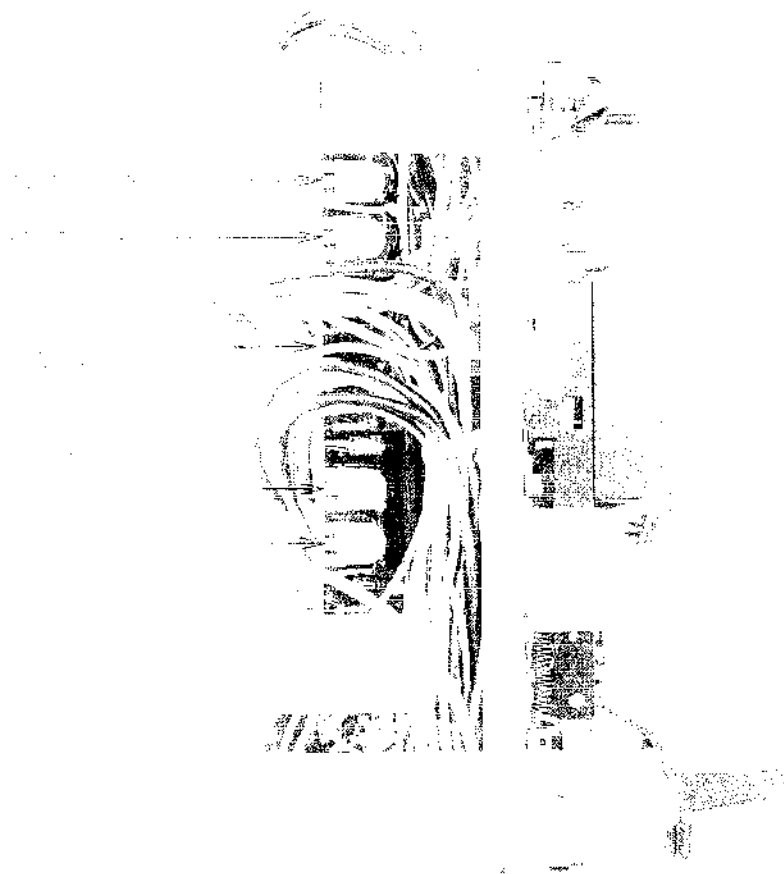
RECORDING/PLAYBACK HEAD AZIMUTH ALIGNMENT ADJUSTMENT (Refer to Fig.9)

Playback a 10 kHz recorded test tape and adjust azimuth alignment nut so that the line output is maximum on both channels.

NOTES:

- 1) As perfect head adjustments are vital in attaining top tape deck performance, please be sure that these adjustments are properly carried out.
- 2) Be careful not to use a magnetized screw driver or other magnetized tools in the vicinity of the heads.
- 3) Use only new tape as level variation is likely to occur when using old tape.
- 4) Demagnetize heads with a Head Demagnetizer before and after head adjustment.

VI. AMPLIFIER ADJUSTMENT



1

10

Adjustment of the amplifier gain is made by the VR1 and VR2 potentiometers.

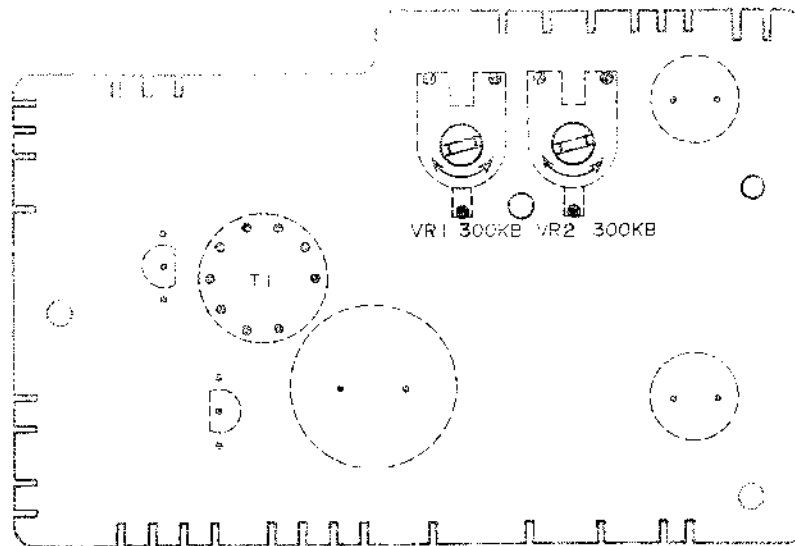


FIG. 11

Adjustment Item	Test Tape Supply Signal	Measuring Instrument Connections	Mode	Adjustment Part	Result	Ref. Diagram	Remarks
PLAYBACK LEVEL ADJUSTMENT	333 Hz 0 VU Test Tape	High Sensitivity V.T.V.M. to Line Output	FWD	VR1 1 k Ω	0 ± 1.5 dB	Fig. 10	
RECORDING LEVEL ADJUSTMENT (low noise)	Low Noise Tape 1,000 Hz 0 VU recording	Audio Frequency Oscillator to Line Input and High Sensitivity V.T.V.M. to Line Output	REC and FWD	VR2 20 k Ω	0 ± 2 dB	Fig. 10	Set Tape Selector to LOW NOISE Position
RECORDING LEVEL ADJUSTMENT (chrome)	Chromium Dioxide Tape 1,000 Hz recording	Audio Frequency Oscillator to Line Input and High Sensitivity V.T.V.M. to Line Output	REC and FWD		-3 ± 1.5 dB		Set Tape Selector to WIDE RANGE Position
FREQUENCY RESPONSE ADJUSTMENT	Low Noise Tape, 1,000 Hz, 10,000 Hz -20 VU recording	Audio Frequency Oscillator to Line Input and High Sensitivity V.T.V.M. to Line Output	REC and FWD	VR1 300 k Ω (left) VR2 300 k Ω (right)	Obtain flat frequency response from 1,000 Hz to 10,000 Hz	Fig. 11	Recheck recording level by changing bias
RECORDING BIAS FREQUENCY CHECK		Frequency Counter to recording/playback head terminal	REC		61 ± 3 kHz	Fig. 12	
RECORDING BIAS VOLTAGE CHECK		AC. Voltmeter to recording/playback head terminal			About 4V AC (low noise) About 5.5V AC (chrome)	Fig. 12	
ERASE VOLTAGE CHECK		AC. Voltmeter to erase head terminal			About 34V AC (low noise) About 46V AC (chrome)	Fig. 12	

Chart 1

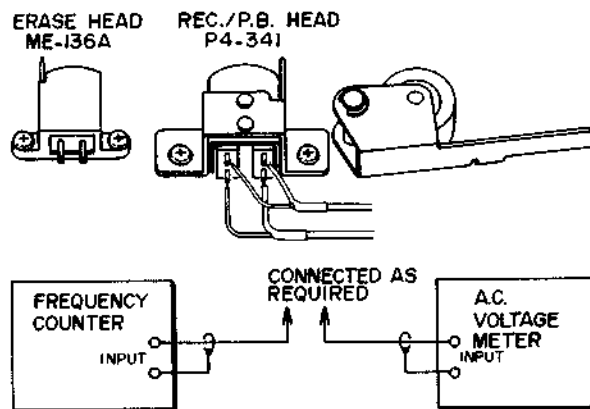
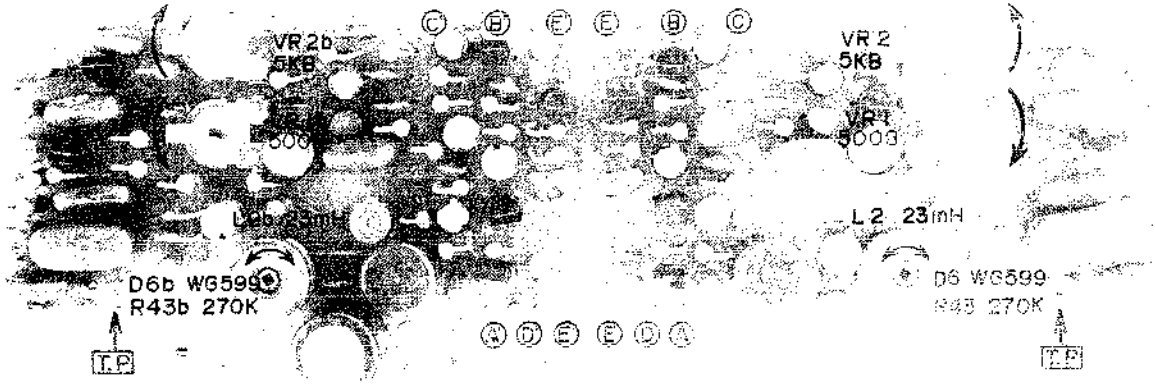


Fig. 12

VII. DOLBY NOISE REDUCTION ADJUSTMENTS



Notes:

1. Before any adjustments, level the system as described in Section VI. After the adjustments, use only measuring instruments which are accurate.
2. Level deviation must be within ± 0.5 dB.
3. Paint lock the screwdriver against adjustment.
4. Be sure to have new screws and washers installed in the assembly when the screws are removed. Do not use the supplied screws for VR1, VR2 and VR2b. For more information, refer to Diagram 3, Fig. 13.

Adjustment Item	Supply Signal	Measuring Instrument Connections	Mode	Dolby Switch Position	T.P.	Adjustment Part	Result		Remarks
							B point level	D point level	
19 kHz FILTER ADJUSTMENT	19 kHz	Audio Frequency Oscillator to point (A), and High Sensitivity V.T.V.M. to point (D)		ON		L2 23 mH		Minimum level to Input level	
RECORDING DOLBY ADJUSTMENT	5 kHz	Audio Frequency Oscillator to point (A), and High Sensitivity V.T.V.M. to point (B)	REC	OFF	to GND	External attenuator	+2 dBm	+2 dBm (confirmation)	Level Control Volume and VR1 (500B), VR2 (5 kB) maximum
	5 kHz	Audio Frequency Oscillator to point (A), and High Sensitivity V.T.V.M. to point (B)	REC	OFF	to GND	Reduce Input Level by 30.5dB with attenuator	-28.5 dBm		
	5 kHz	Audio Frequency Oscillator to point (A), and High Sensitivity V.T.V.M. to point (B)	REC	ON	to GND	VR2 500B	-18.5 dBm (10 dB increase)		
	5 kHz	Audio Frequency Oscillator to point (A), and High Sensitivity V.T.V.M. to point (B)	REC	ON	Disconnect from GND	VR1 5 kB	20.5 dBm (2 dB decrease)		
PLAYBACK DOLBY ADJUSTMENT	5 kHz	Audio Frequency Oscillator to point (A), and High Sensitivity V.T.V.M. to point (B)	FWD	OFF	to GND	External attenuator	+2 dBm	+2 dBm (confirmation)	Perfect recording Dolby adjustments and when circuit is normal, confirm items at left.
	5 kHz	Audio Frequency Oscillator to point (A), and High Sensitivity V.T.V.M. to point (B)	FWD	OFF	to GND	Reduce Input Level by 22.5dB with attenuator	-20.5 dBm		
	5 kHz	Audio Frequency Oscillator to point (A), and High Sensitivity V.T.V.M. to point (B)	FWD	ON	to GND		-30.5 dBm (10 dB decrease)		
	5 kHz	Audio Frequency Oscillator to point (A), and High Sensitivity V.T.V.M. to point (B)	FWD	ON	Disconnect from GND		-28.5 dBm (2 dB increase)		

Chart 2

VIII. D.C. RESISTANCE OF VARIOUS COILS

Part	Designation	D.C. Resistance
MOTOR	HM1-12CS	Between YLW-BLU 200Ω Between BLU-RED 180Ω Between RED-YLW 190Ω
STOP SOLENOID	0730TH71	15Ω ± 10%
HEADPHONE OUTPUT TRANSFORMER	N16-535S	Primary 565Ω ± 15% Secondary 0.95Ω ± 15%
OSCILLATOR COIL	OT-903	Between 1-3 0.04Ω Between 4-6 0.14Ω Between 7-9 0.65Ω
ERASE HEAD	ME-136A	8Ω ± 30%
RECORDING/PLAYBACK HEAD	P4-341	190Ω

NOTE: The resistance values shown in this chart are average values.

IX. CLASSIFICATION OF VARIOUS P.C. BOARDS

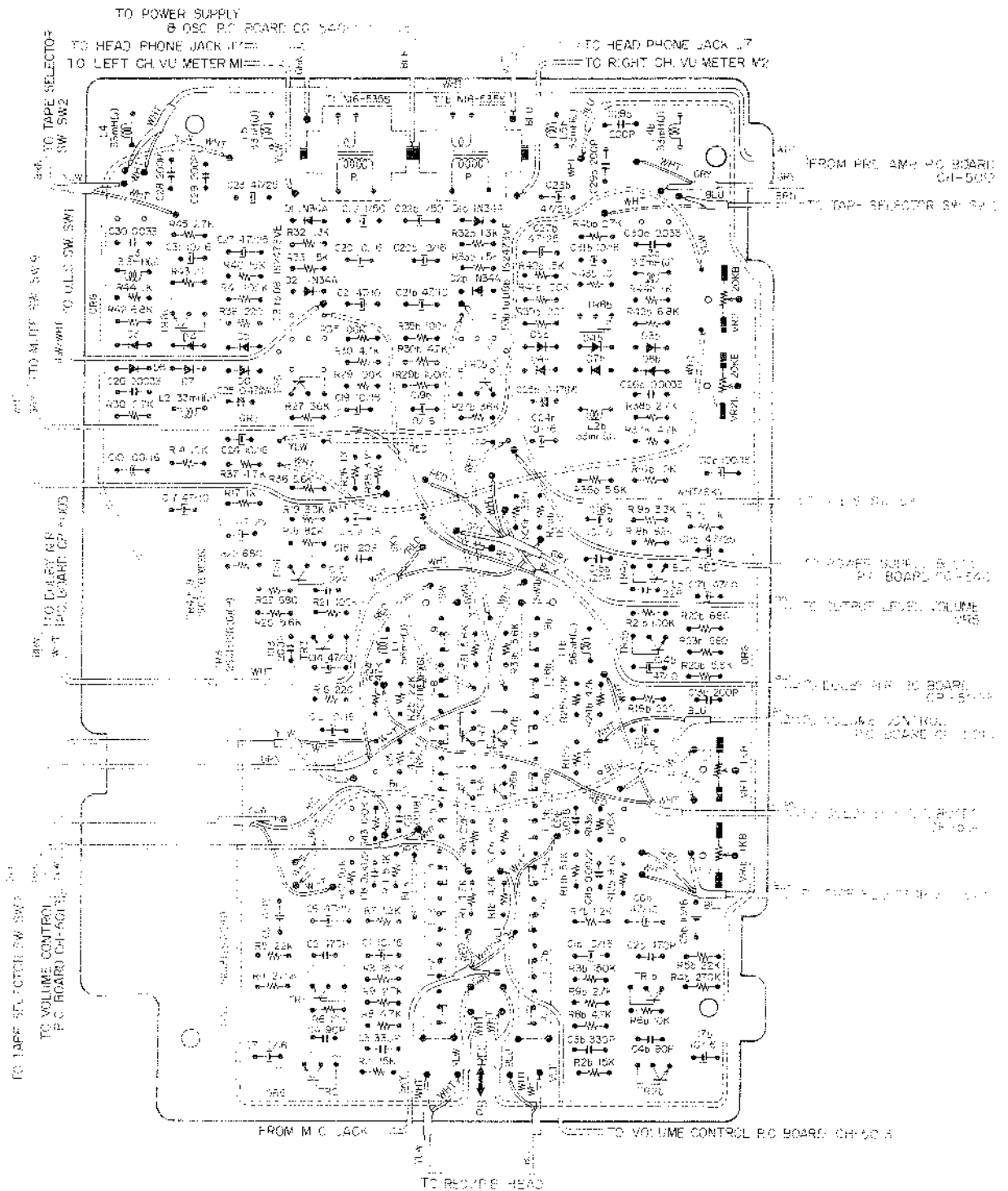
I. P.C. BOARD INTERCHANGEABILITY CHART

P.C. BOARD	GXC-510D	GXC-505D
ILLUMINATION P.C. BOARD	CH-5011	CH-5011*
PRE-AMP. P.C. BOARD	CH-5012	CH-5012*
VOLUME CONTROL P.C. BOARD	CH-5013	
FUSE P.C. BOARD		CH-5024
REED SWITCH P.C. BOARD	CG-1229	CG-1229
SYSCON P.C. BOARD	CG-1413	CG-1413
OSC/POWER SUPPLY P.C. BOARD	CG-5401	CG-5401
DOLBY N.R. P.C. BOARD	CP-5003	

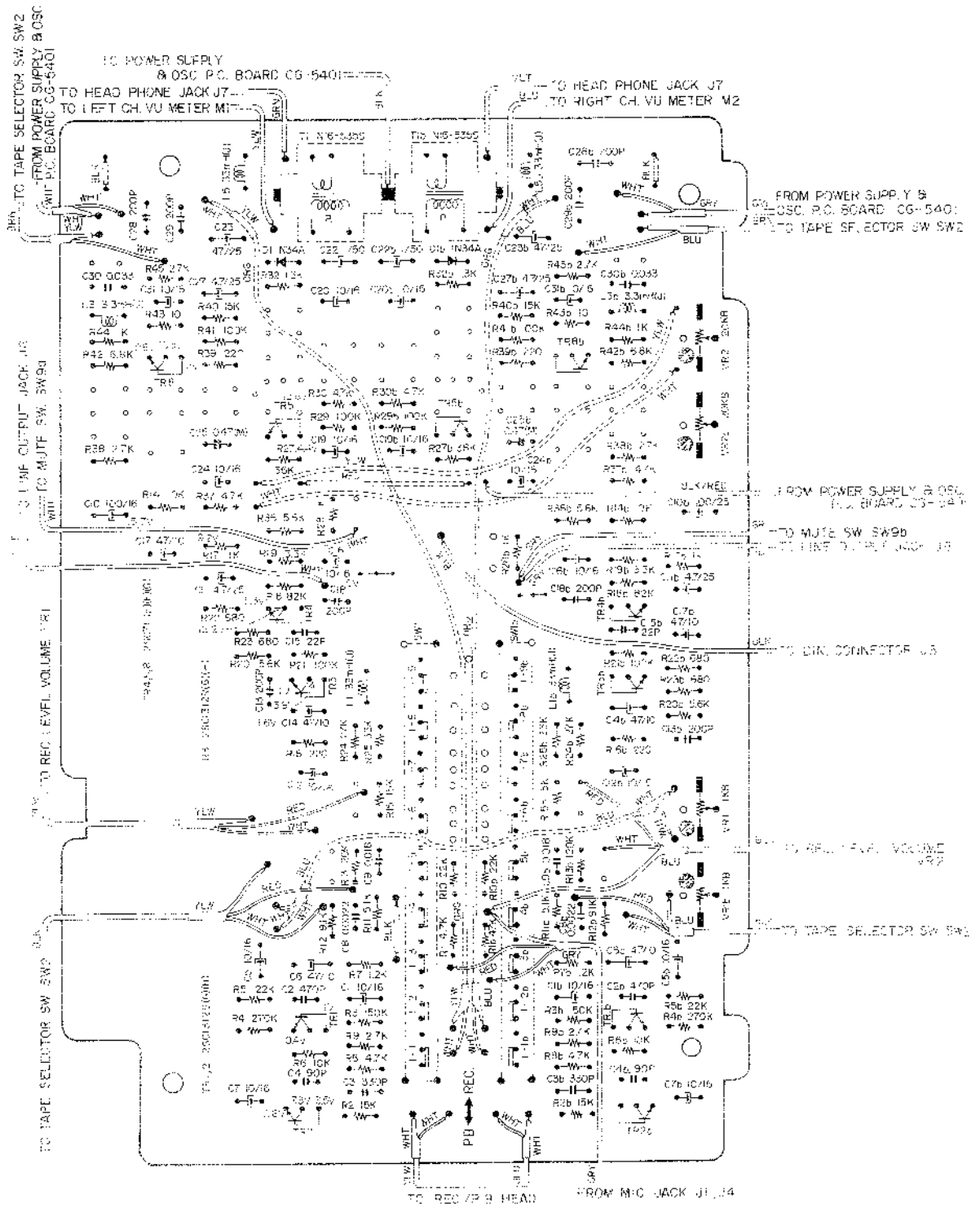
* ... Not interchangeable

2. COMPOSITE VIEWS OF COMPONENTS

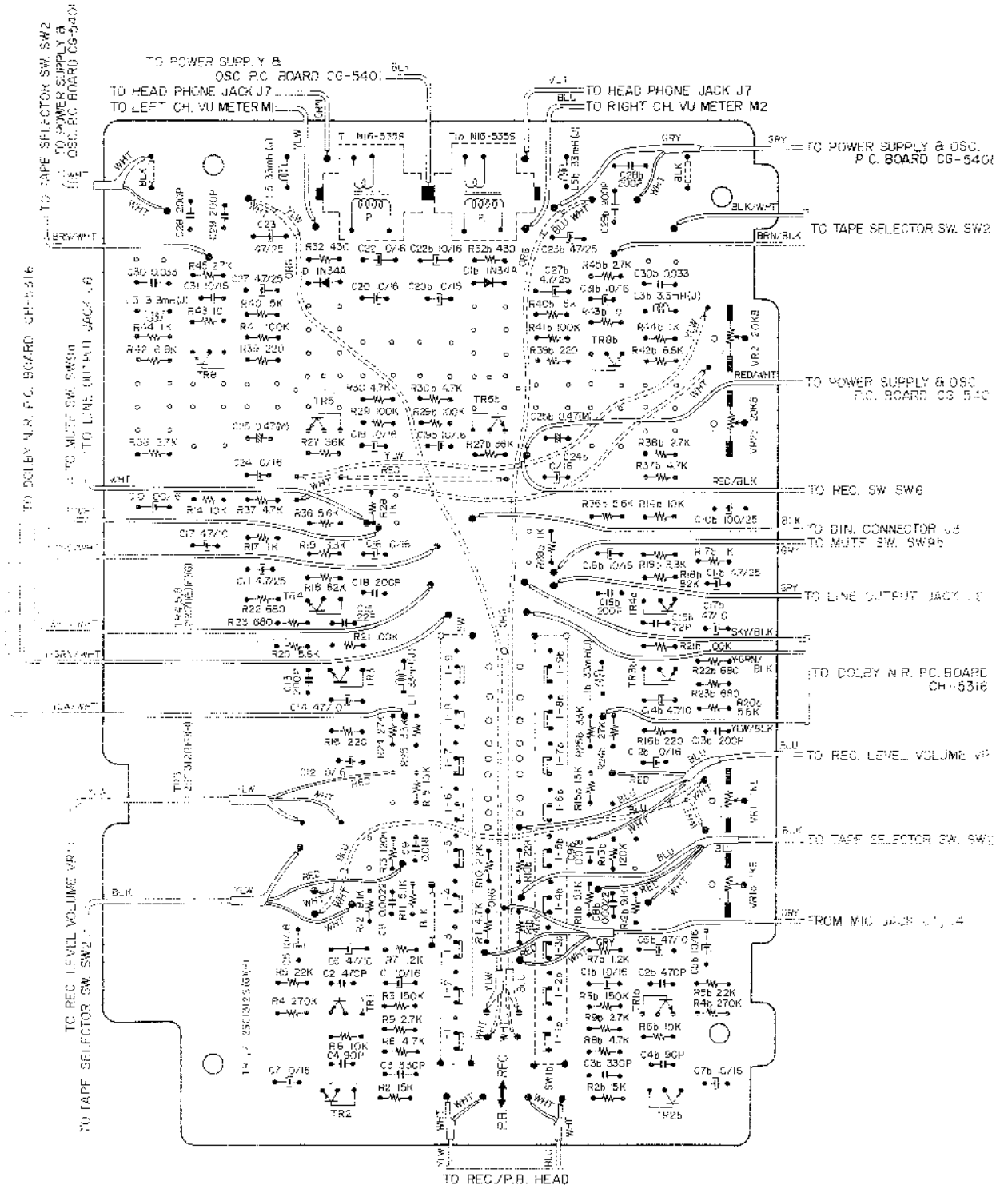
1) PRE AMP. P.C. BOARD CH-5012 (510D)



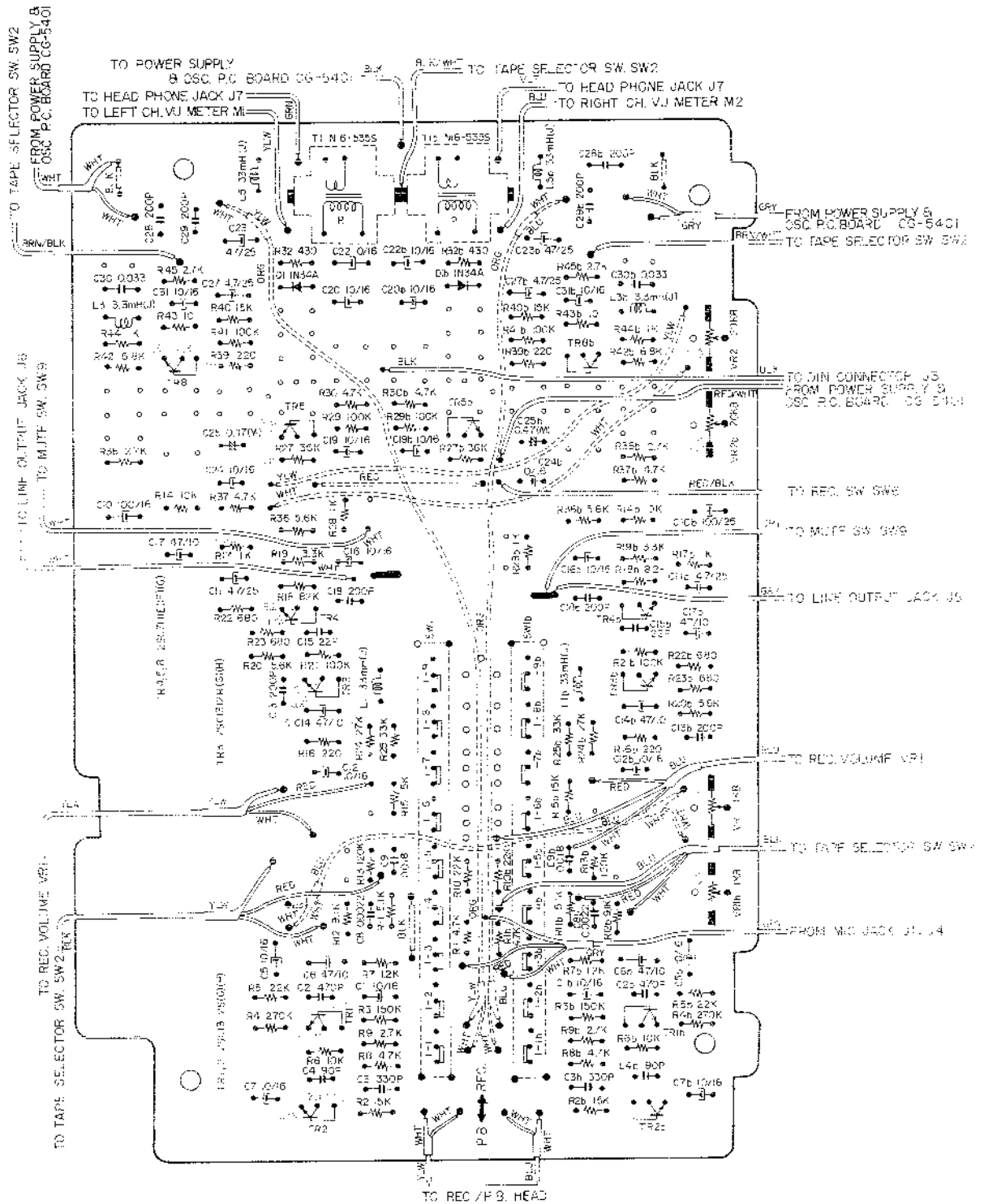
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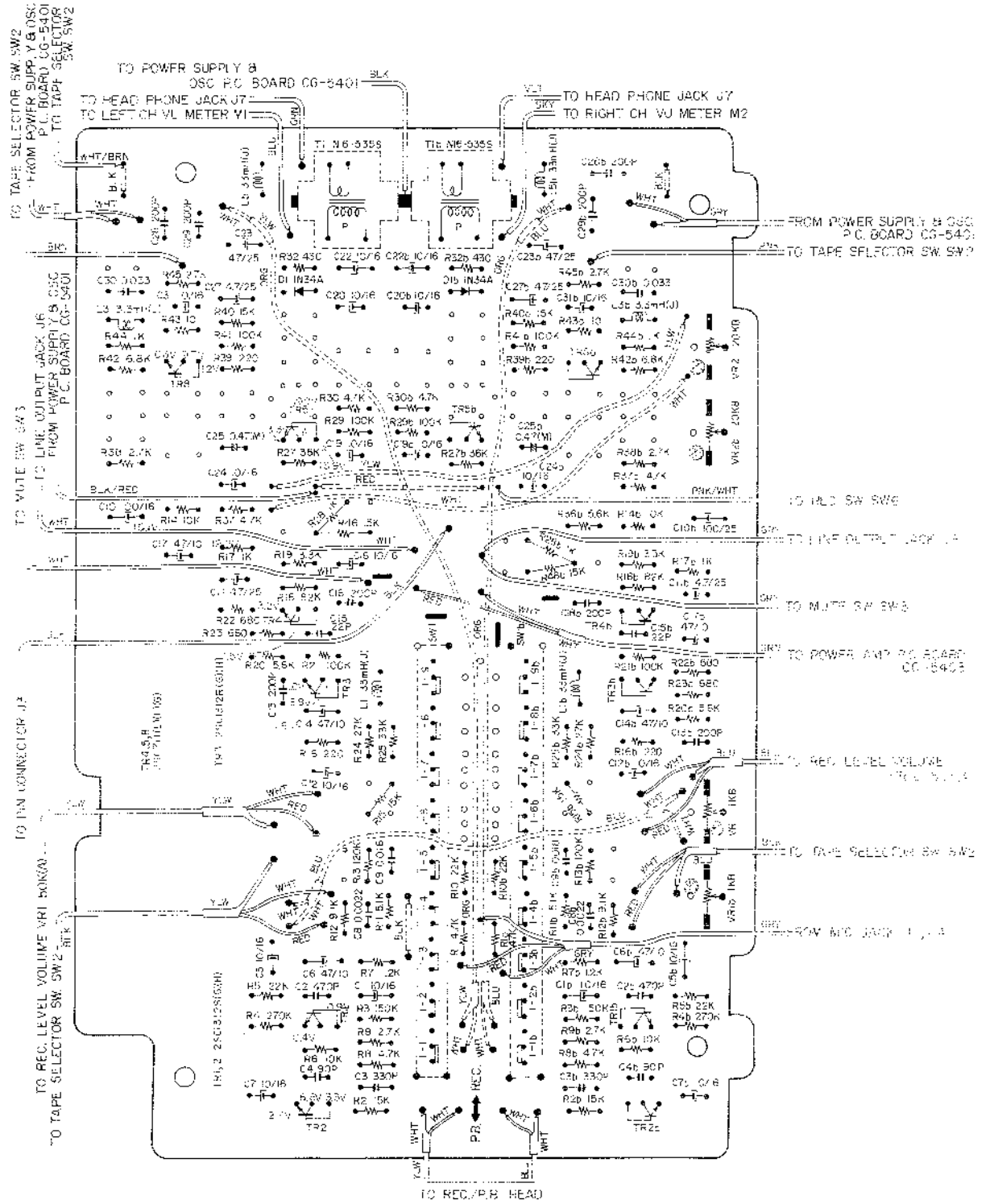
31 PRE AMP. P.C. BOARD CH-5012 (502D)



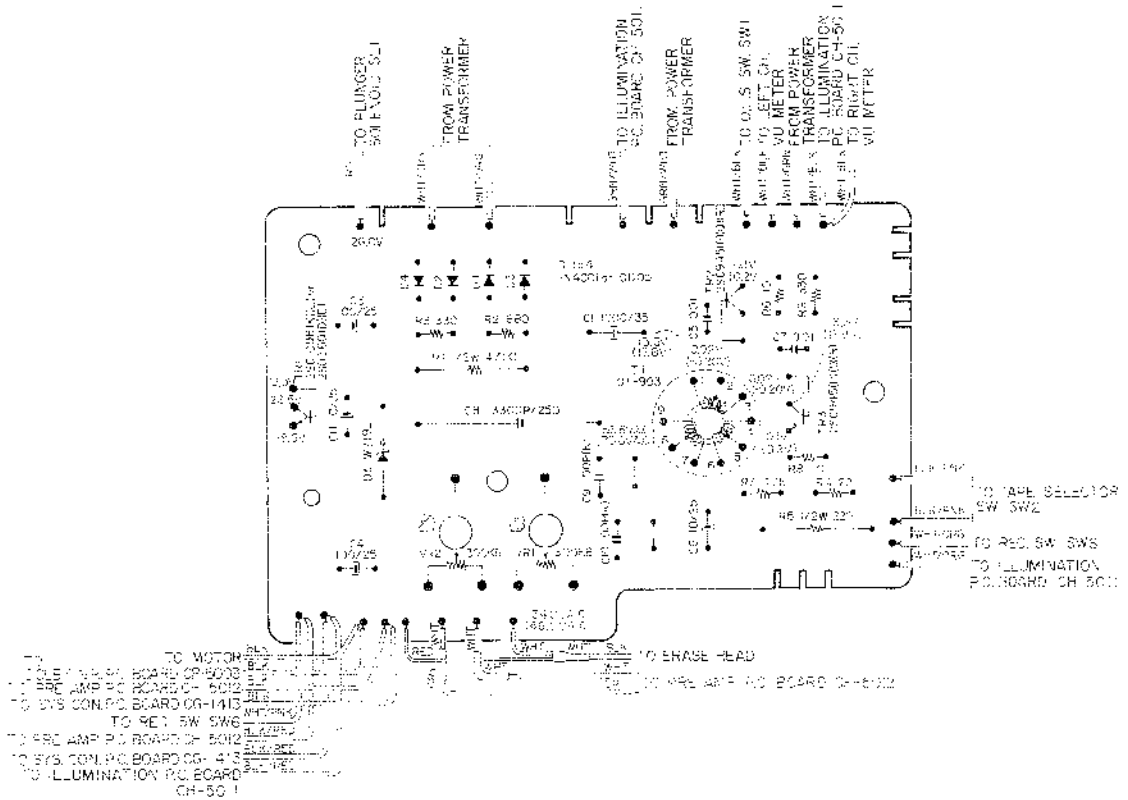
4) PRE AMP. P.C. BOARD CH-5012 (500D)



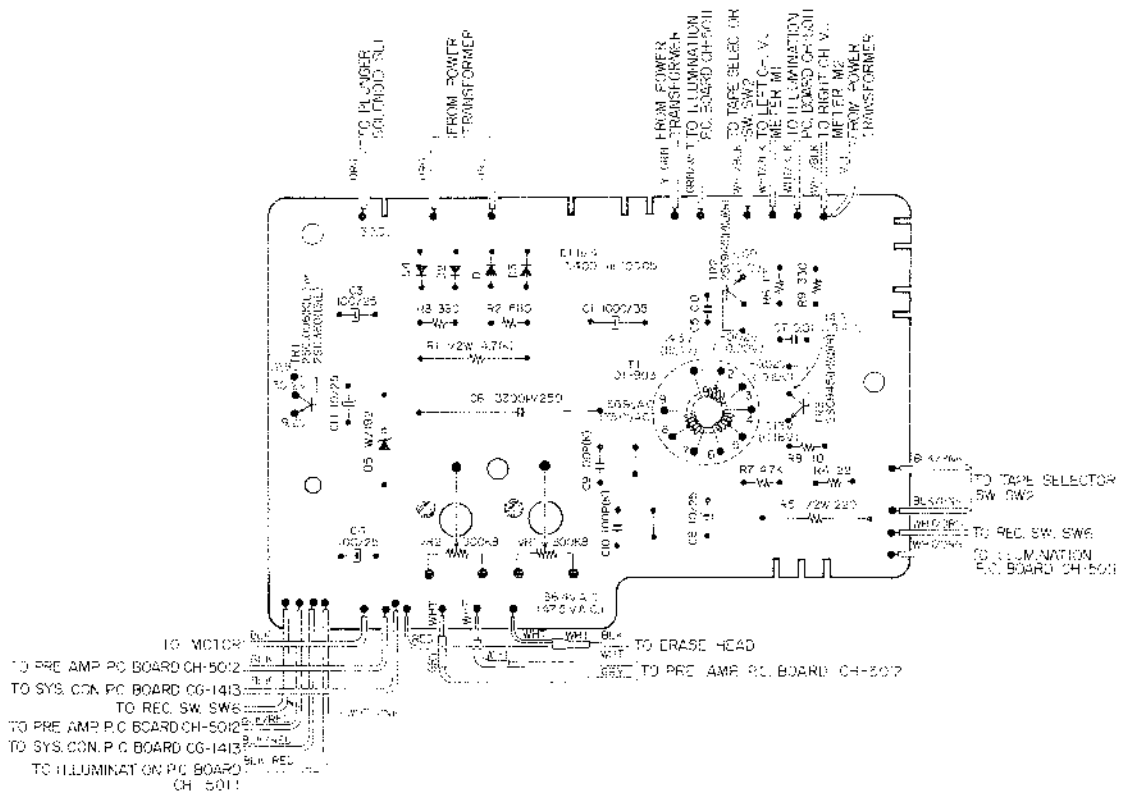
5) PRE AMP. P.C. BOARD CH-5013 (500)



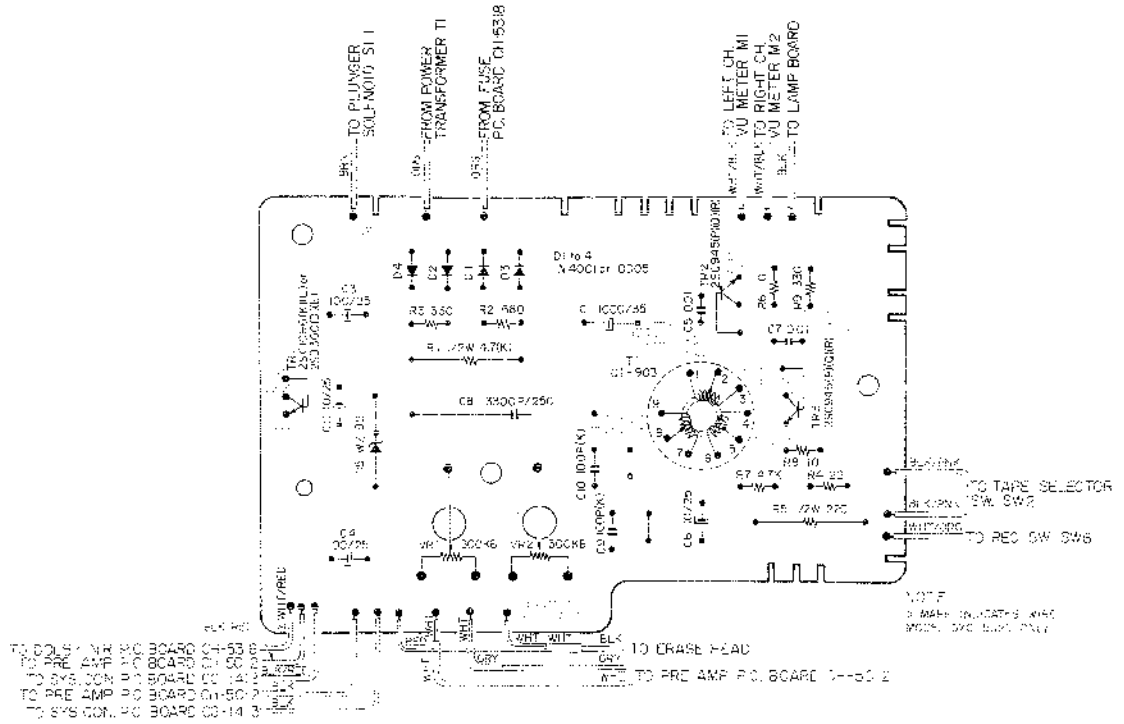
6) OSC. & POWER SUPPLY P.C. BOARD CG-5401 (510D)



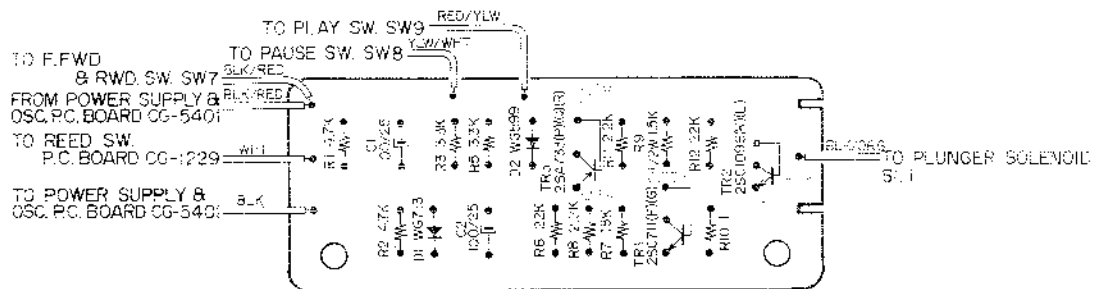
7) OSC. & POWER SUPPLY P.C. BOARD CG-5401 (505D)



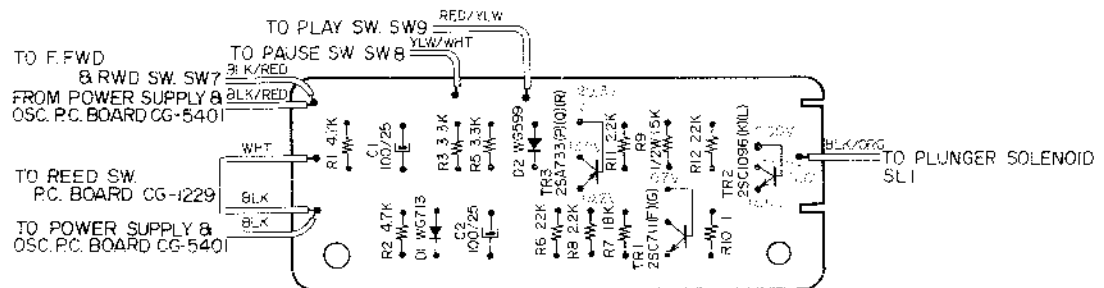
8) OSC. & POWER SUPPLY P.C. BOARD CG-5401 (502D, 500/D)



9) SYS. CON. P.C. BOARD CG-1413 (510D, 505D)

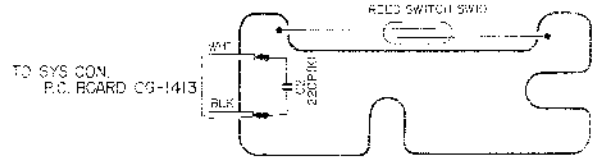
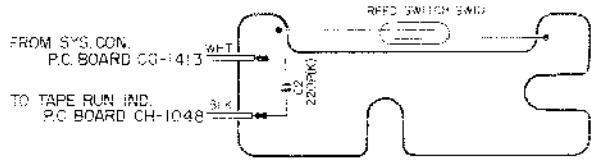


10) SYS. CON. P.C. BOARD CG-1413 (502D, 500/D)

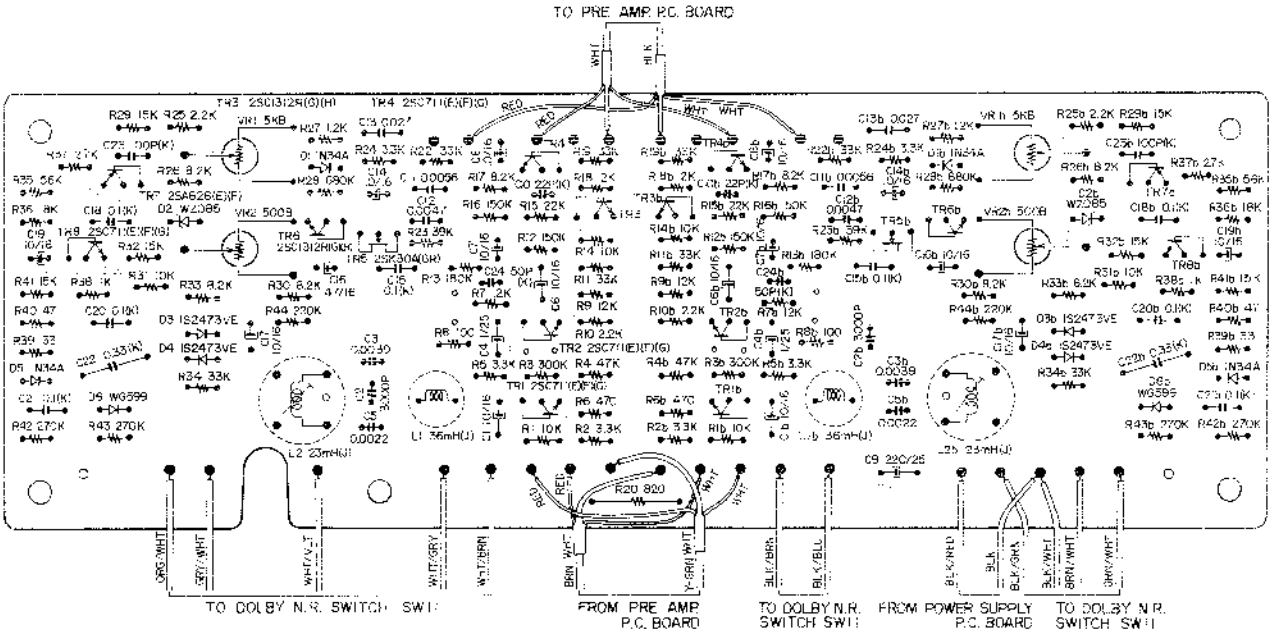


11) REED SWITCH P.C. BOARD CG-1229 (510D, 505D)

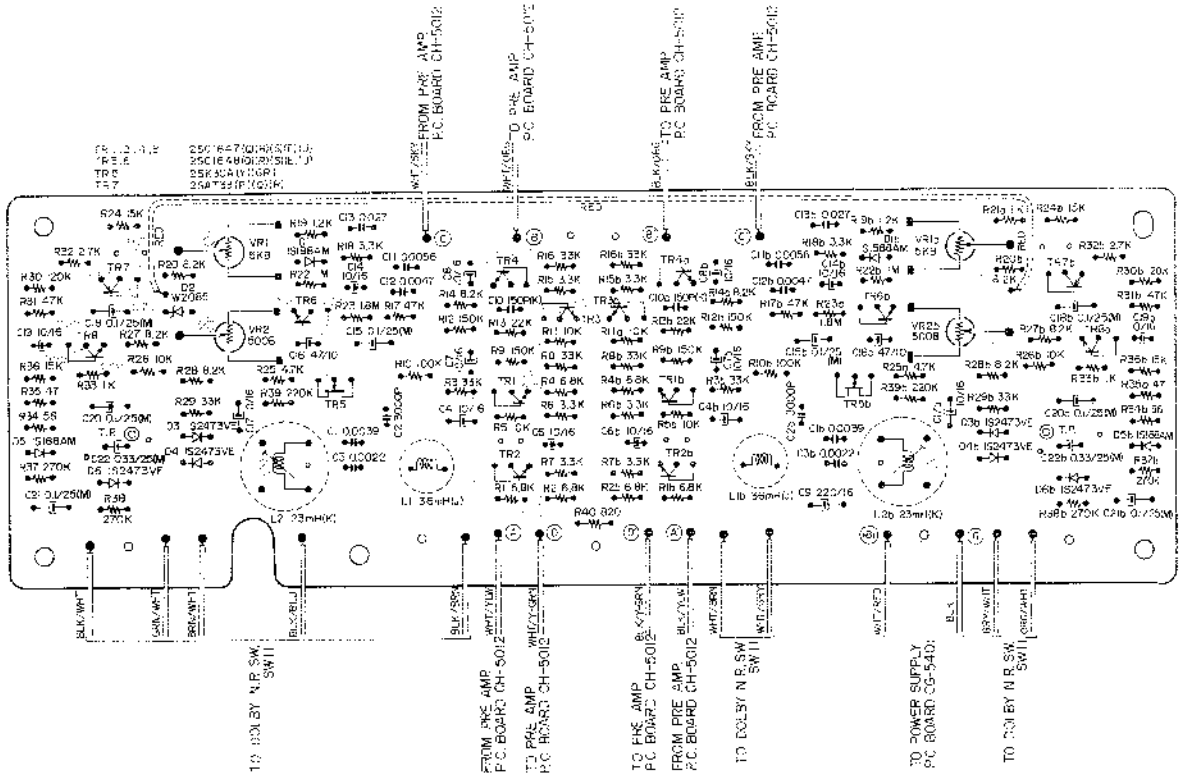
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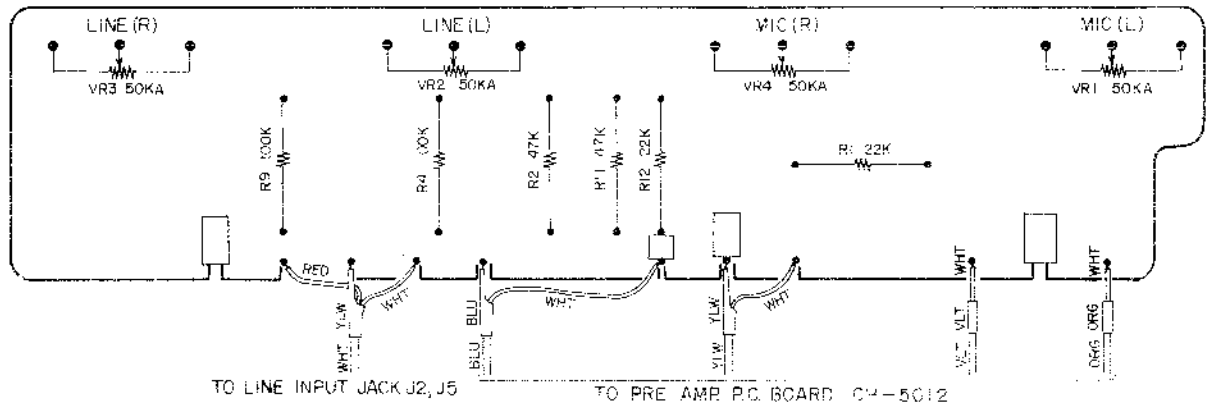
13) DOLBY P.C. BOARD CP-5003 (510D)



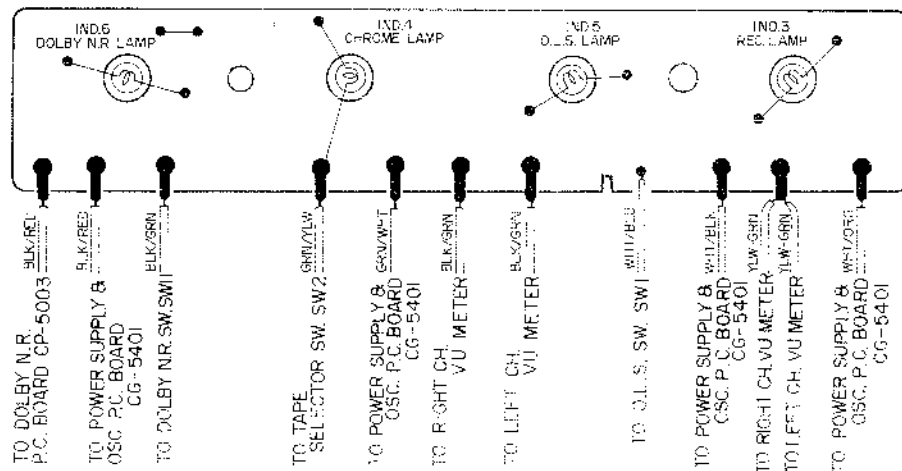
14) DOLBY P.C. BOARD CH-531C (502D)



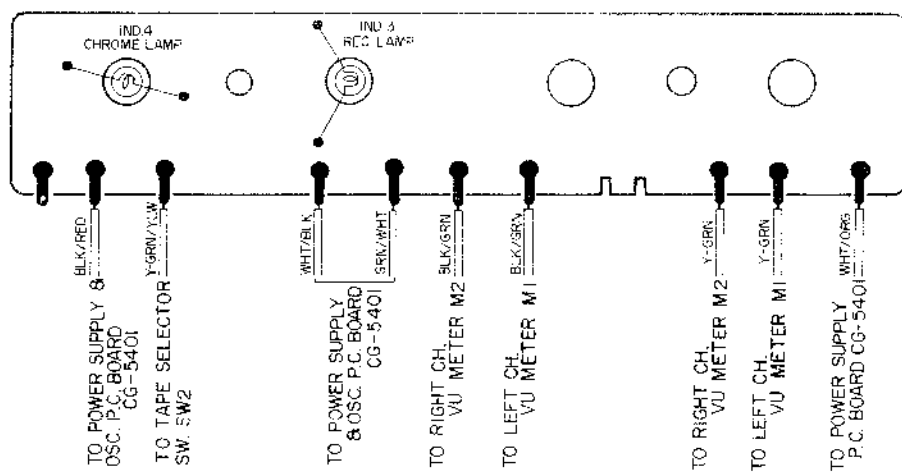
15) VOLUME CONTROL P.C. BOARD CH-5013 (510D)



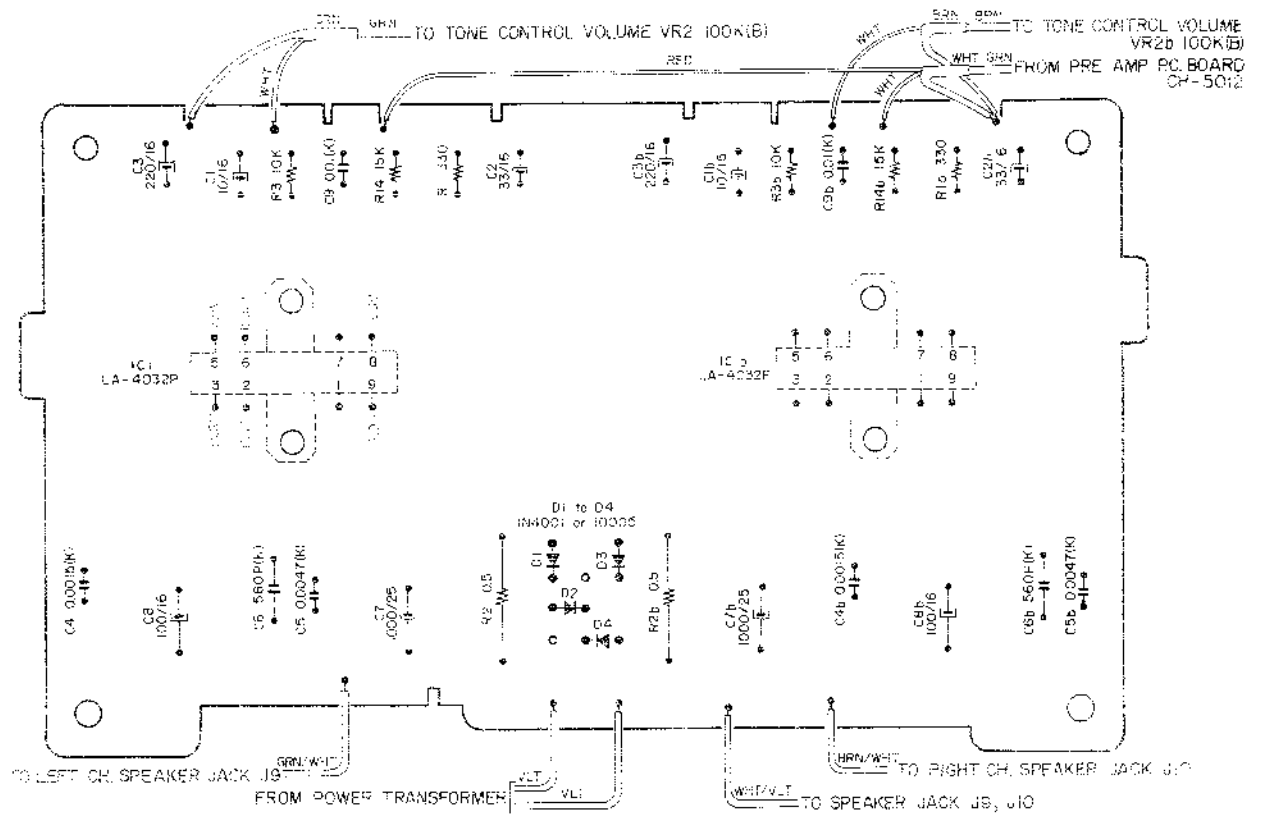
16) ILLUMINATION P.C. BOARD CH-5011 (510D)



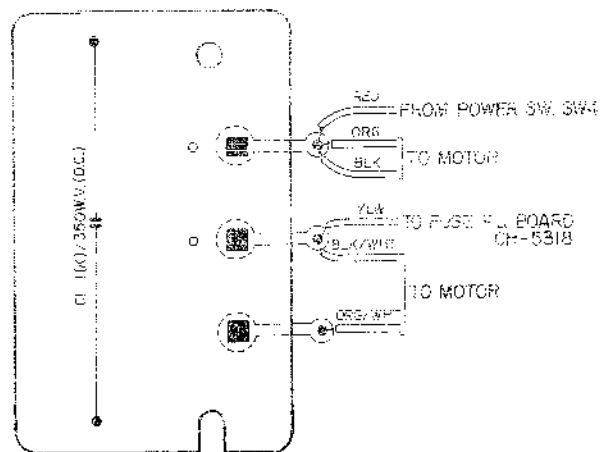
17) ILLUMINATION P.C. BOARD CH-5011 (505D)



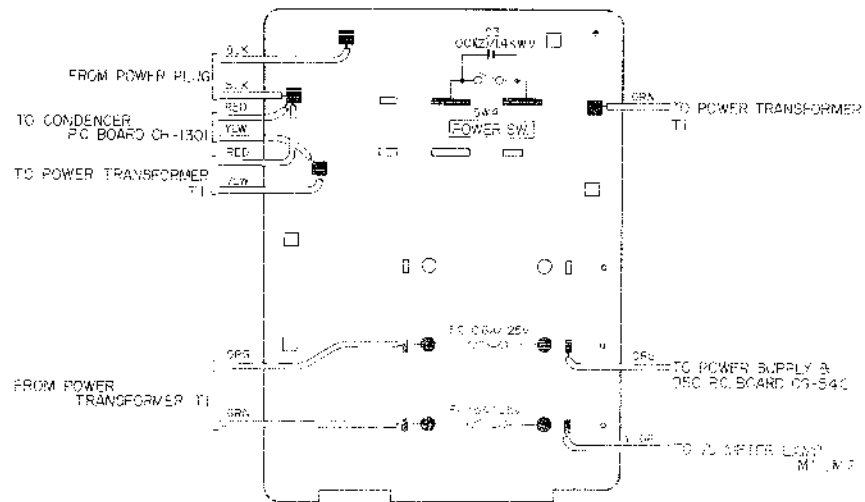
18) POWER AMP. P.C. BOARD CG-5403 (500)



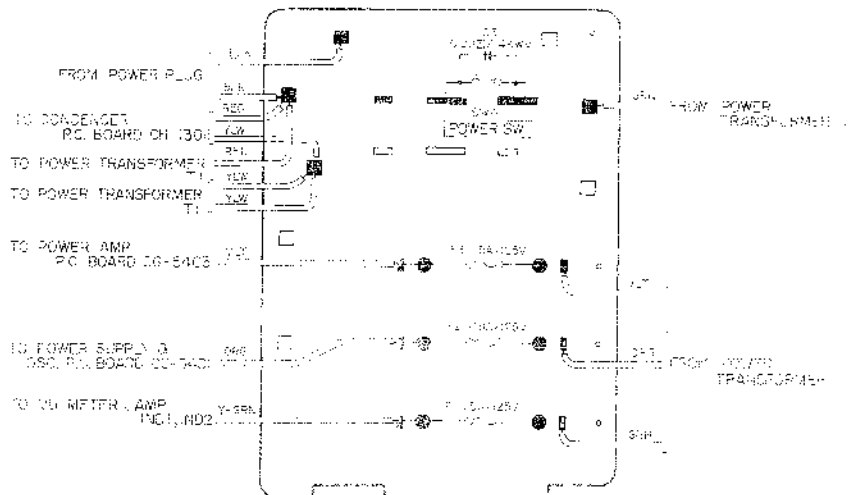
19) CONDENSER P.C. BOARD CH-1301 (502D, 500'D)



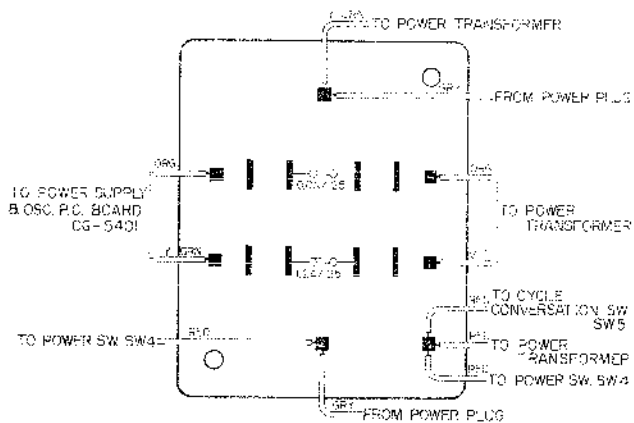
20) FUSE P.C. BOARD CH-5318 (502D, 500D)



21) FUSE P.C. BOARD CH-5318 (500)



22) FUSE P.C. BOARD CH-5024 (JPN)



SECTION 2

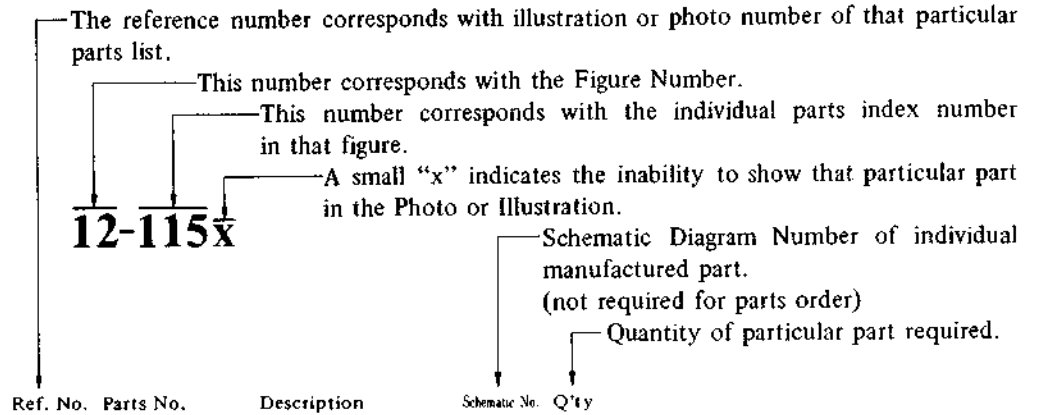
PARTS LIST

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HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read list.



Ref. No.	Parts No.	Description	Schematic No.	Q'ty
FLYWHEEL BLOCK #13				
12-115x	800425	Flywheel Block Assy. Comp.	RDG #13	1
12-116	244506	Flywheel Only	RD-233	1
12-117x	244754	Felt, Flywheel	RD-275	1
12-118	251324	Main Metal Case	RD-236	1
12-119	253080	Main Metal	RD-237	1

4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.
It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

ELECTRICAL PARTS TABLE


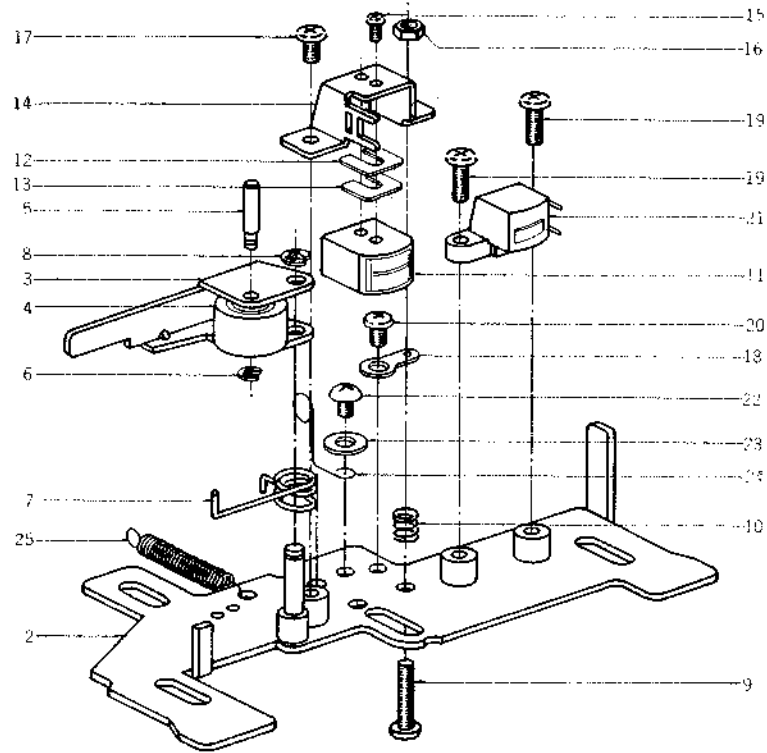
<p>Because the indication of resistors and capacitors in the P. C. Board photos are being eliminated, please confirm parts name and shape by comparing them with the parts shown in this table.</p>	<p>1</p>  <p>Solid Resistor</p>	<p>2</p> <p style="text-align: right;">Stopper Type</p>  <p>Insulator Type</p> <p>Carbon Resistor</p>	<p>3</p>  <p>Metal Oxide Film Resistor</p>	
	<p>4</p>  <p>Cement Resistor</p>	<p>5</p>  <p>Wire-Wound Resistor</p>	<p>6</p>  <p>Thermister</p>	<p>7</p>  <p>Enamel Resistor</p>
	<p>1</p>  <p>MP Capacitor (Tubular Type)</p>	<p>2</p>  <p>Plastic Capacitor</p>	<p>3</p>  <p>Mylar Capacitor</p>	<p>4</p>  <p>VFM (Hi-Q) Capacitor</p>
	<p>5</p>  <p>Mylar Capacitor</p>	<p>6</p>  <p>Tantalum Capacitor</p>	<p>7</p>  <p>Oil Capacitor (Tubular Type)</p>	<p>8</p> <p style="text-align: right;">Vertical Type</p>  <p>(Tubular Type)</p> <p>Styrol Capacitor</p>
<p>9</p>  <p>Electrolytic Capacitor (Tubular Type)</p>	<p>10</p> <p style="text-align: right;">Vertical Type</p>  <p>(Tubular Type)</p> <p>Electrolytic Capacitor</p>	<p>11</p>  <p>Ceramic Capacitor</p>	<p>12</p>  <p>Metalized Mylar (Paper) Capacitor</p>	
<p>13</p>  <p>Trimmer Condenser</p>		<p>VR</p>  <p>Semi-Fixed Volume</p>		
<p>I</p>  <p>Ferri Inductor</p>	<p>TR</p>  <p>Transistor</p>			
<p>CR</p>  <p>Spark Quencher</p>	<p>D</p>  <p>Diode (Silicon, Zener, Germanium)</p>			

FIG. 1 ILLUSTRATION OF HEAD BASE BLOCK

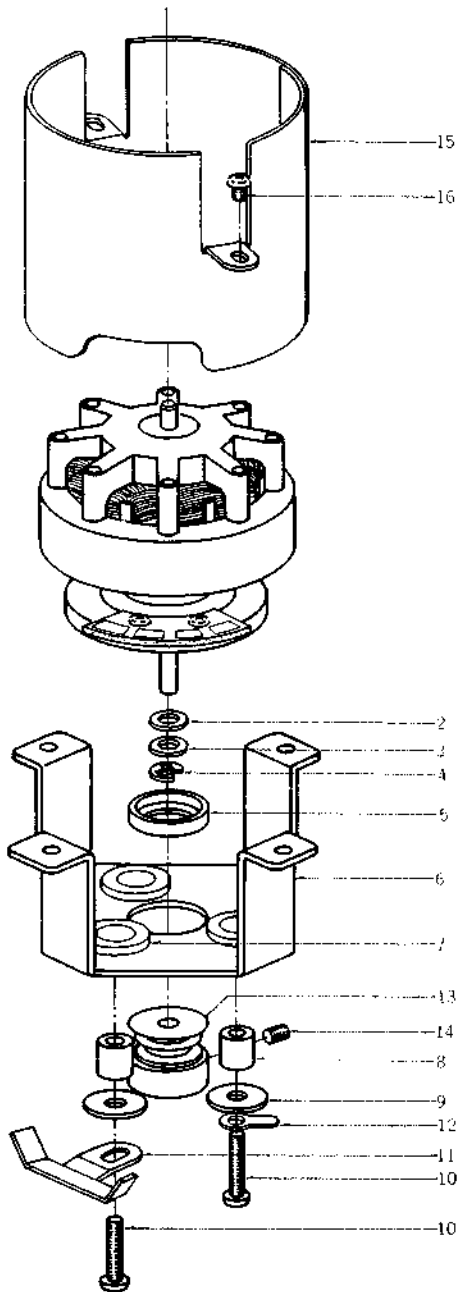


HEAD BASE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
1-1x	BH592751	Head Base Block Comp.	CH	1
1-2	HZ457323	Head Base	CG-001	1
1-3	HL457391	Pinch Roller Arm	CG-010	1
1-4	MP468292	Pinch Roller CG D=13	CG-002	1
1-5	MS389981	Pinch Roller Shaft	CS-011	1
1-6	ZW391397	'E' Ring 1.2M	6-1-9	1
1-7	ZG457380	Pinch Roller Spring	CG-009	1
1-8	ZW270088	'E' Ring 1.9M	6-1-9	1
1-9	ZS462947	Screw, pan head 2.3x12		1
1-10	ZH465636	Angle Adjust Spring	CG-029	1
1-11	HP564085	REC./P.B. HEAD P4-341		1
1-12	ZW414235	Height Adjust Washer A (0.1t)	CS-025	1
1-13	ZW414246	Height Adjust Washer B (0.15t)	CS-025	1
1-14	UM366625	PC Tape Guide	RCC-102	1
1-15	ZS461395	Screw, round head 2x3		2
1-16	ZW273688	Nut M2.3		1
1-17	ZW417161	Screw, pan head 2.3x4		1
1-18	ZW316800	Earth Lug M2.6		1
1-19	ZS375118	Screw, binding head 2.3x6		2
1-20	ZS201407	Screw, pan head 2.3x3		1
1-21	HE515992	ERASE HEAD A ME-136A (Black)	37-2-1	1
1-22	ZS432674	Screw, pan head 3x3		1
1-23	ZW413256	Washer D3.4x7.8x0.5t (SPC)		1
1-24	UM566021	Head Shield Wire Retainer	CZ-5040	1
1-25	ZG514697	Head Return Spring	CG-1308	1

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

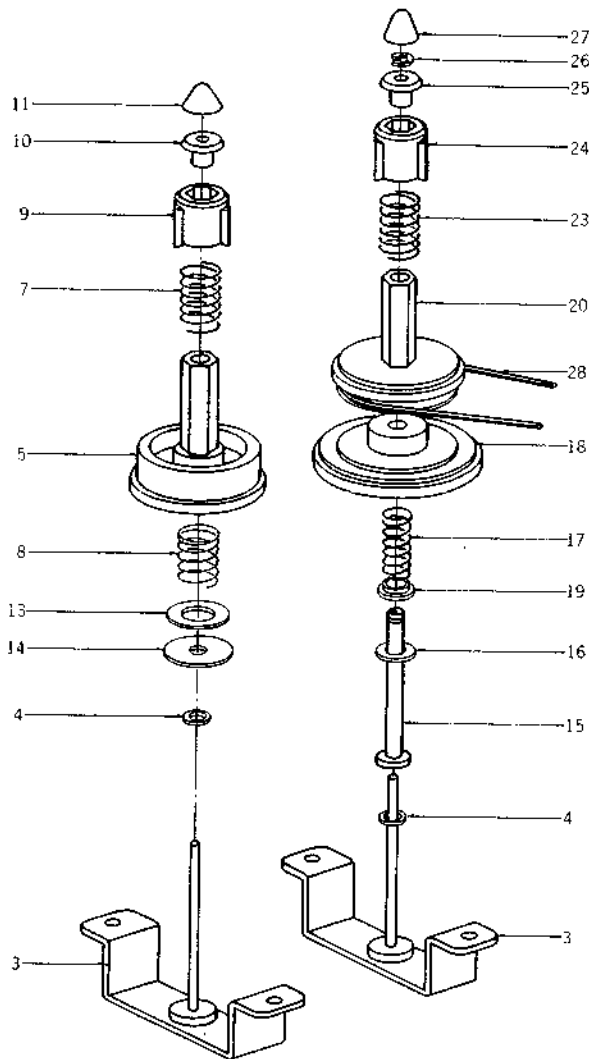
**FIG. 2 ILLUSTRATION OF
MOTOR BLOCK**



MOTOR BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
2-1x	BM451675	Motor Block (HM1-12CS)		
		Comp.	CH-1,2 CG-1,2	1
2-2	ZW396415	Thrust Washer A, CS	CS-7029	3
2-3	ZW396426	Thrust Washer B, CS	CS-7029	3
2-4	ZW270101	'E' Ring 3M	6-1-9	1
2-5	UM394075	Oil Cut	CS-7028	1
2-6	MZ457301	Motor Bracket	CG-7002	1
2-7	UM384164	Rubber Cushion Bush	24X0-717	3
2-8	UM469563	Rubber Cushion Sleeve, CG	CG-7010	3
2-9	ZW402322	Washer D4.1x13x0.5t (SUP)		3
2-10	ZS593201	Screw, pan head 3x16		3
2-11	UM468270	Belt Vibration Stopper	CG-7008	1
2-12	ZW273778	Earth Lug M3		1
2-13	MR457290	Motor Pulley	CG-7001	1
2-14	ZS356804	Set Screw, hexagon Socket 3x4 (Cup/p.)		2
2-15	MZ605755	Motor Shield	CH-1067	1
2-16	ZS325495	Tapping Screw #2 3x6		4
2-17x	BM510107	Motor Block (IC-414) Comp.	CH-3 CG-3106	1
2-18x	BM510118	Motor IC-414	9-2-1	1
2-19x	MZ510017	Motor Fan	CG-7308	1
2-20x	MR510142	Motor Pulley B	CG-7303	1
2-21x	ZS356804	Set Screw, hexagon socket 3x4 (Cup/p.)		2
2-22x	MZ510030	Motor Shield E	CG-7305	1
2-23x	UM516352	Dust-Proof Rubber B	CG-1236	1
2-24x	UM516306	Motor Mt. Metal B	CG-1234	1
2-25x	ZS417148	Screw, binding head 3x15		1
2-26x	ZW273756	Nut M3		1

FIG. 3 ILLUSTRATION OF REEL TABLE BLOCK



REEL TABLE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
3-1x	BR616026	Supply Reel Table Block Comp.	CH	1
3-2x	BR616037	Take-up Reel Table Block Comp.	CH	1
3-3	UM457312	Reel Table Bracket, w/bush A	CG-2001	1
3-4	ZW364342	Washer D1.7x3.2x0.25t (polyslider)		2
3-5	UM387652	Supply Reel Table	CS-2016	1
3-6x	UM391140	Reel Table Ring	CS-2013	1
3-7	ZG385075	Reel Table Spring	CS-2014	1
3-8	ZG615205	Back Tension Spring	CH-1072	1
3-9	MT605766	V Type Reel Table Blade	CH-1070	1
3-10	UC370348	C Type Reel Table Bush	RCC-1343	1
3-11	UC370372	C Type Reel Shaft Cap	RCC-1346	1
3-12x	ZW601762	Washer D3.1x 8x0.12t		1
3-13	ZW615216	Reel Table Washer 1	CH-1073	1
3-14	ZW615227	Reel Table Washer 2	CH-1074	1
3-15	MS387573	Take-up Reel Table Shaft	CS-2007	1
3-16	ZW355307	Washer D2.6x6.9x0.5t (BSP)		1
3-17	ZG387584	Clutch Spring	CS-2008	1
3-18	MR387595	Take-up Reel Table Pulley	CS-2009	1
3-19	UM615903	Reel Table Spring Support	CH-2014	1
3-20	UM387628	Take-up Reel Table	CS-2012	1
3-21x	UM391140	Reel Table Ring	CS-2013	1
3-22x	UM387617	Clutch Felt	CS-2011	1
3-23	ZG385075	Reel Table Spring	CS-2014	1
3-24	MT370361	C Type Reel Table Blade	RCC-1345	1
3-25	UM387641	Take-up Reel Table Bush	CS-2015	1
3-26	ZW270088	'E' Ring 1.9M	6-I-9	1
3-27	UM394200	Take-up Reel Cap	CS-2105	1
3-28	MB595743	Counter Belt	CH-1047	1

CASSETTE BASE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
4-1x	BZ592738	Cassette Base Block Comp.	CH	1
4-2	UM596362	Cassette Base, w/pin	CH-2001	1
4-3	MH595530	Eject Guide Pin	CH-2013	1
4-4	ZW273756	Nut M3		1
4-5	ZS380046	ISO Screw, pin head 3x10		1
4-6	MS595552	Cassette Guide R	CH-2006	1
4-7	MS595563	Cassette Guide L	CH-2007	1
4-8	ML595574	Detector Lever A	CH-2008	2
4-9	ML595585	Cassette Lever B	CH-2009	2
4-10	ZG595618	Spring A	CR-2004	1
4-11	ZG595620	Spring B	CH-2005	1
4-12	ZW270088	'E' Ring 1.9M	6-I-9	2
4-13	ZW592391	Washer D3.2x6x0.3t		2
4-14x	UM477358	Cassette Insert Name Plate	CG-1088	1
4-15	UM596474	Cassette Case	CH-2012	1
4-16	UM609963	Lid Retaining Spring	CH-6037	2
4-17	ZG595528	Leaf Spring	CH-2011	1
4-18	ZS533564	Tapping Screw #3, Flange head 2x5	ED-6006	2
4-19	ZS592402	Screw, pan head 3x18		4
4-20	ZG614957	Leaf Spring B	CH-2011	1
4-21	UM596160	Cassette Base Bracket L, w/pin 2	CH-1025	1
4-22	UM596171	Cassette Base Bracket R, w/pin 1	CH-1025	1
4-23	ZS325495	Tapping Screw #2 3x6		2

FIG. 4 ILLUSTRATION OF CASSETTE BASE BLOCK

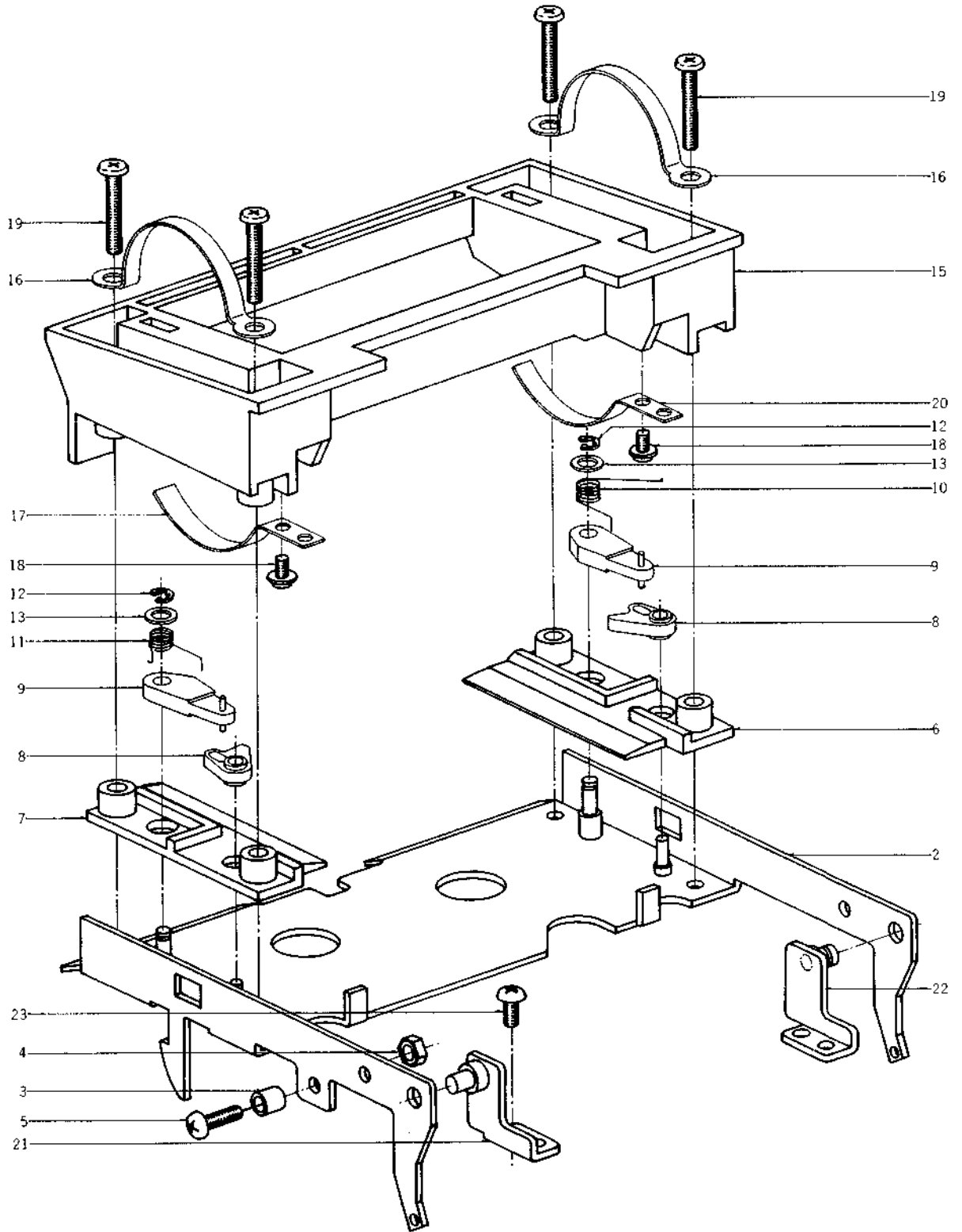
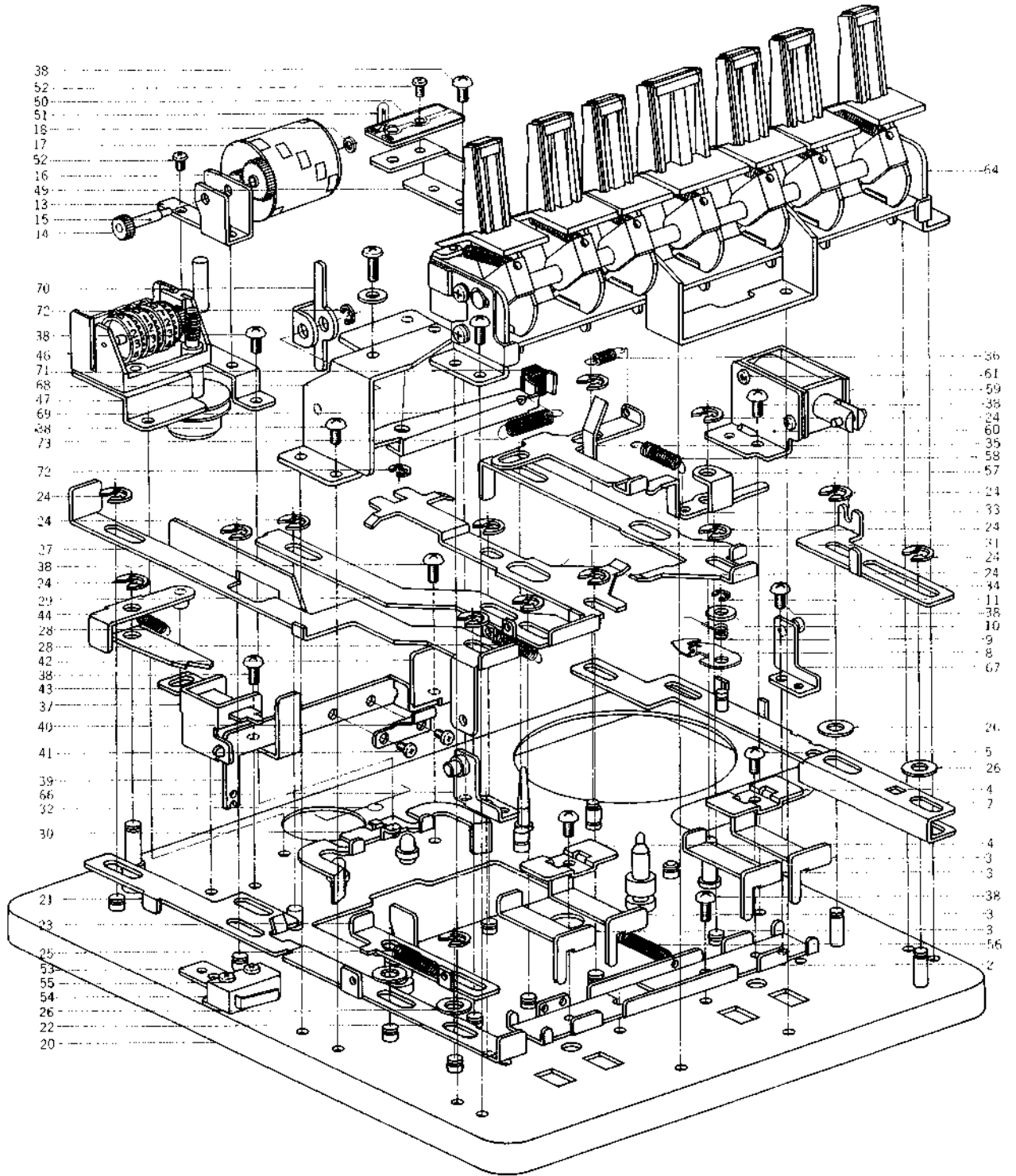


FIG. 5 ILLUSTRATION OF MECH. FRAME BLOCK (1)



MECH. FRAME BLOCK (1)

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty	
SLIDE BLOCK										
5-1x	BZ592762	Slide Block Comp.	CH	1	5-58	ZG305010	Out Spring	RC-586	1	
5-2	MS595978	Slide Guide	CH-1006	1	5-59	EP494425	Plunger Solenoid 0730THT1	44-1-48	1	
5-3	ML595991	Play Lever	CH-1008	4	5-60	MZ596340	Plunger Plate	CH-1042	1	
5-4	MZ595980	Slide Retainer	CH-1007	2	5-61	ZS592378	Screw, pan head 2.6x3		2	
5-5	ZS325495	Tapping Screw #2 3.6 (BR)		2	5-62x	MH607241	Spring Pin 2.5x10 (SPP)		1	
PAUSE SLIDE BLOCK										
5-6x	BZ592740	Pause Slide Block Comp.	CH	1	5-63x	ED494583	Silicon Diode 10D05	45-2-42	1	
5-7	MZ596081	Pause Slide B, w/shaft	CH-1017	1	5-64	BK592380	Keyboard	25-5-134	1	
5-8	UM515575	SW. Lock Cam B	CG-2301	1	5-65x	BK619716	Keyboard B (500/D, 502D)	25-5-148	1	
5-9	ZG514440	Button Lock Spring B	CG-2303	1	5-66	UM596160	Cassette Base Bracket L, w/pin 2	CH-1025	1	
5-10	ZW424495	Washer D3.1x8x1t (SPC)		1	5-67	UM596171	Cassette Base Bracket R, w/pin 1	CH-1025	1	
5-11	ZW270088	'E' Ring 1.9M	6-1-9	1	5-68	UM596114	Cassette Up Base, w/pin	CH-1020	1	
TAPE RUN BLOCK										
5-12x	BZ592773	Tape Run Block Comp.	CH	1	5-69	UM596136	Cassette Up Lever 1	CH-1022	1	
5-13	MZ596002	Pinion Base, w/shaft	CH-1009	1	5-70	UM596125	Cassette Up Lever 2	CH-1021	1	
5-14	UM541833	Pinion Gear A	CZ-2012	1	5-71	MB614608	Up Rubber	CH-1077	1	
5-15	UM541855	Pinion Shaft	CZ-2014	1	5-72	ZW270101	'E' Ring 3M	6-1-9	2	
5-16	MZ595732	Spur Gear	CH-1046	1	5-73	ZG529334	Tension Spring	ND-1016	1	
5-17	MZ596024	Tape Run Drum	CH-1011	1	5-74x	EA612180	Condenser P.C. Board	CH-1301	1	
5-18	ZW595697	Washer 1.3x3.6x0.2St (Teflon)	CH-1051	1	5-75x	EJ514822	Fuse Holder, P.C. Board	S-N5051	40-1-28	3
5-19x	SE595708	Tape Run Mask	CH-1052	1	5-76x	UM612090	Condenser Table	CH-1303	1	
MECH. FRAME BLOCK										
5-20	MZ596463	Mech. Frame, w/shaft	CH-1001	1	5-77x	EC514743	MP/C. 1μF (K) 350WV DC (Tub. Type)	24-9-68	1	
5-21	ML596057	Lock Off Lever	CH-1014	1	5-78x	ZS325495	Tapping Screw #2 3x6		4	
5-22	ML596068	Lock Off Lever B	CH-1015	1						
5-23	UM596103	Cassette Up Slide	CH-1019	1						
5-24	ZW290283	'U' Ring 2.85M	6-1-1	17						
5-25	ZG595506	Stop Spring	CH-3007	1						
5-26	ZW259885	Washer D5.1x10.3x0.1t (PBP)		5						
5-27	MZ596070	Rec. Slide	CH-1016	1						
5-28	ZG365433	Idler Tension Spring	RCC-1365	2						
5-29	UM456963	Rewind Slide	CG-1043	1						
5-30	UM456928	Brake Shoe	CG-1039	1						
5-31	UM456941	Brake Slide	CG-1041	1						
5-32	ZG456930	Brake Spring	CG-1040	1						
5-33	UM456952	F. Fwd Slide	CG-1042	1						
5-34	ML596046	Cancellation Lever B	CH-1013	1						
5-35	ML596092	Safety Lever	CH-1018	1						
5-36	ZG469315	Take-up Lever Spring	CG-1091	1						
5-37	MZ596204	Detective Plate Base	CH-1028	1						
5-38	ZS325495	Tapping Screw #2 3x6		18						
5-39	UM596215	Cassette Hold Lever	CH-1029	1						
5-40	UM596226	Cassette Retainer Spring	CH-1030	1						
5-41	ZS432843	Screw, pan Head 2.6x4		2						
5-42	MZ596193	Hold Bracket	CH-1027	1						
5-43	MZ596248	Rec. Detective Plate	CH-1032	1						
5-44	MZ596237	Antirec. Plate, w/pin	CH-1031	1						
5-45x	MV592356	Steel Ball D5		1						
5-46	MC592367	Counter MP390-117	9-1-34	1						
5-47	MZ596035	Counter Base	CH-1012	1						
5-48x	UM516025	Magnet TG0034, w/bush	5-1-8	1						
5-49	UM596147	Lamp Base	CH-1023	1						
5-50	EA586732	TR P.C. Board	CH-1046	1						
5-51	EL603268	Lamp 24V 35MA	28-2-39	1						
5-52	ZW417161	Screw, pan head 2.3x4		1						
5-53	MZ596182	Rec SW. Base	CH-1026	1						
5-54	ES477966	Micro SW. SS-5GL	25-1-23	1						
5-55	ZS487091	Screw, pan head 2.3x8		2						
5-56	ZG514697	Head Return Spring	CT-1308	1						
5-57	UM596158	Pause Lever A	CH-1024	1						

MECH. FRAME BLOCK (2)

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
WIND IDLER BLOCK									
6-1x	BZ459966	Wind Idler Block Comp.	CG, CT, CH	1	6-58	UM456726	Take-up Lever (2), w/metal	CG-1028	1
6-2	UM456783	Wind Lever (1), w/shaft	CG-2009	1	6-59	UM456750	Take-up Wheel, w/ring	CG-1031	1
6-3	ZG392804	Auto. Change Lever E Return Spring	CS-2566	1	6-60	ZG469315	Take-up Lever Spring	CG-1081	1
6-4	ZW270123	'E' Ring 4M	6-1-9	1	6-61x	ZW461248	Washer D4.3x11x0.35t (PBP)		1
6-5	UM461878	Wheel Collar	CG-2026	1	6-62x	ZW530504	Oil Cut Washer	CG-1102	1
6-6	UM461880	Wind Wheel (1), w/ring	CG-2023	1	6-63	ES516036	Lead SW. ORD-22.5	25-11-1	1
6-7x	UM461586	Clutch Felt	CG-2025	1	6-64	EA516047	Lead SW. P.C. Board	CG-1229	1
6-8	UM461891	Wind Wheel (2)	CG-2024	1	6-65	UM515518	SW. Table Cushion, w/sleeve	CG-1228	2
6-9	ZG459224	Clutch Spring	CG-2021	1	6-66x	EC290564	VFM/C. 220PF(K) 50WV	24-6-2	1
6-10	ZW259795	Washer D4.3x11x0.13t (SUP)		1	6-67x	ZW516251	Washer D2.4x5.8x0.4t (SPC)		2
6-11	ZW421007	Washer D4.3x11x0.25t (SUP)		1	6-68	ZS462947	Screw, pan head 2.3x12		2
6-12	ZW290283	'U' Ring 2.85M	6-1-1	1	6-69x	EJ510333	Wire Clip 220-JD481610-0104 (Nylon)	2-7-17	2
6-13	ZW391397	'E' Ring 1.2M	6-1-9	1	6-70x	EJ618524	Wire Clip 220-JD482010-0010 (Nylon)	2-7-46	1
6-14	ZW474581	Washer D2.05x3.5x0.2t (Teflon)		2	6-71	ES477966	Micro SW. SS-5GL	25-1-23	3
6-15	ZW474592	Washer D2.05x7x0.2t (Teflon)		2	6-72	ZS465298	Screw, pan head 2.3x10		6
6-16	MB456895	Wind Belt D40x1.4x1.4	CG-1035	1	6-73	EZ595653	Insulator Plate	CH-1055	1
6-17	ZW474603	Washer D4.1x13x0.2t (Teflon)		1	6-74	ML596351	Lock Off Lever C	CH-1043	1
WIND PULLEY BLOCK									
6-18x	BZ592154	Wind Pulley Block Comp.	CG, CT, CH	1	6-75	ZG596338	Head Base Pressure Spring	CH-1041	1
6-19	UM456827	Wind Lever (2), w/metal	CG-2015	1	6-76	UM596327	Cassette Base Stopper	CH-1040	2
6-20x	MS456851	Wind Pulley Shaft (1)	CG-2018	2	6-77x	MB510164	Cussion Rubber	CG-7306	2
6-21	MR456838	Wind Pulley (1)	CG-2016	2	6-78	ZG595721	Eject Spring	CH-1045	2
6-22	MR456840	Wind Pulley (2)	CG-2017	2	6-79	MI456658	Flywheel, w/shaft	CG-1021	1
6-23x	ZW381644	Washer D2.1x4.0x0.13t (Polyslider)		4	6-80	ZW615238	Wheel Washer	CH-1075	1
MECH. FRAME BLOCK									
6-24	UM457053	Rec. Bracket	CG-1061	1	6-81	ZW615240	Oil Cut Washer	CH-1076	1
6-25	ZG583830	Rec. Spring B	CG-1062	1	6-82	MB456660	Capstan Belt D106x1.4x1.4	CG-1023	1
6-26	ZS478697	Graduated Screw, CG	CG-1093	2	6-83	UM456682	Capstan Supporting Plate	CG-1022	1
6-27	ZG494381	Rec. Gramp Spring B	CG-1218	2	6-84	UM387268	Flywheel Support	CS-1115	1
6-28	MZ596261	Pre-Card Retainer 2	CH-1034	2	6-85	ZW478991	Speed Nut M4 (P Type)	6-3-7	1
6-29	ZS325495	Tapping Screw #2 3x6		14	6-86	UM518106	P.C. Board Table	CG-1403	1
6-30x	MZ595631	Side Frame B	CH-1053	1	6-87x	UM612088	Sys. Con. Table (500/D, 502D)	CH-1302	1
6-31	EZ596283	Condenser Retainer	CH-1036	1	6-88	MV592356	Steel Ball D5		1
6-32	EC393671	MP/C. 6+1 μ F 150WV AC (Lug Type Uni/D.)	24-9-47	1					
6-33x	EC412582	MP/C. 6 μ F 150WV AC (Lug Type Uni/D.) (CSA)	24-9-55	1					
6-34	MZ596294	Bracket F	CH-1037	1					
6-35	ES479507	Slide SW. S-3	25-3-68	1					
6-36	ZS325495	Tapping Screw #2 3x6		15					
6-37x	MZ596305	Bracket G	CH-1038	1					
6-38	MZ595710	Pre Card Retainer 1	CH-1044	1					
6-39	MV610514	Capstan Metal Case B	CP-1156	1					
6-40	ZS590804	Screw, pan head 2.3x6		3					
6-41	UM494987	Take-up Spring Hook	CG-1101	1					
6-42	UM456996	Wind Slide, w/pin	CG-1046	1					
6-43	ZG224796	New Spring D	MH-142	2					
6-44	ZW290283	'U' Ring 2.85M	6-1-1	7					
6-45	MZ595675	Wind Plate	CH-1049	1					
6-46	ZG456985	Wind Spring	CG-1045	1					
6-47	ZW417161	Screw, pan head 2.3x4		2					
6-48	ZG460484	Wind Plate Spring	CG-1083	1					
6-49x	MB595743	Counter Belt	CH-1047	1					
6-50	UM456671	Capstan Supporting Prop	CG-1016	2					
6-51	ZS369900	Screw, pan head 3x8, w/washer		4					
6-52	UM498892	SW. Holder	CG-3304	1					
6-53	ES539043	Push SW. SPJ-10108	25-5-92	1					
6-54	SB499195	SW. Button	CG-3305	1					
6-55	ZS460440	Screw, pan head 2x4		2					
6-56	ZS432843	Screw, pan head 2.6x4		2					
6-57	UM456693	Take-up Lever (1), w/shaft	CG-1024	1					

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 6 ILLUSTRATION OF MECH. FRAME BLOCK (2)

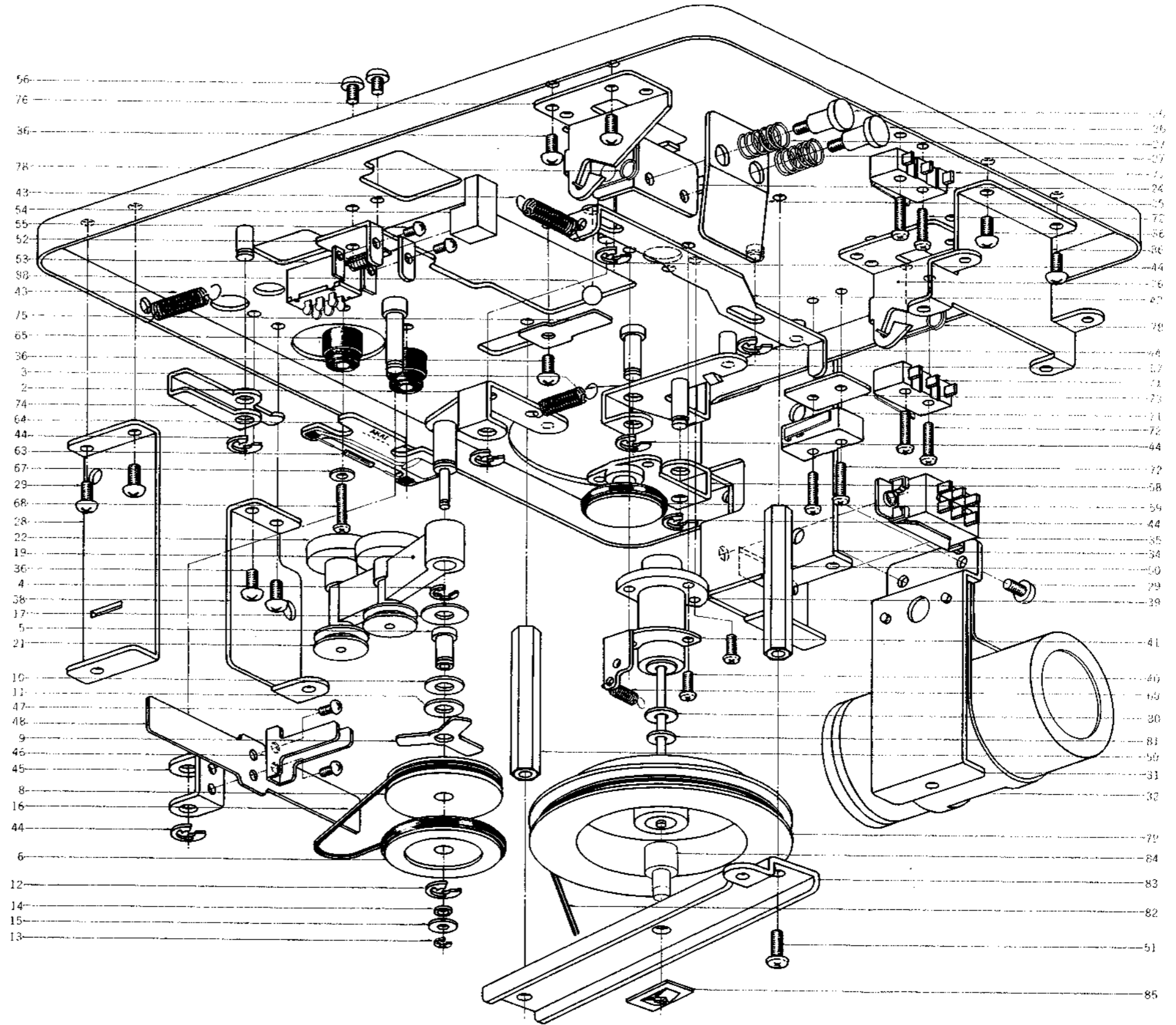
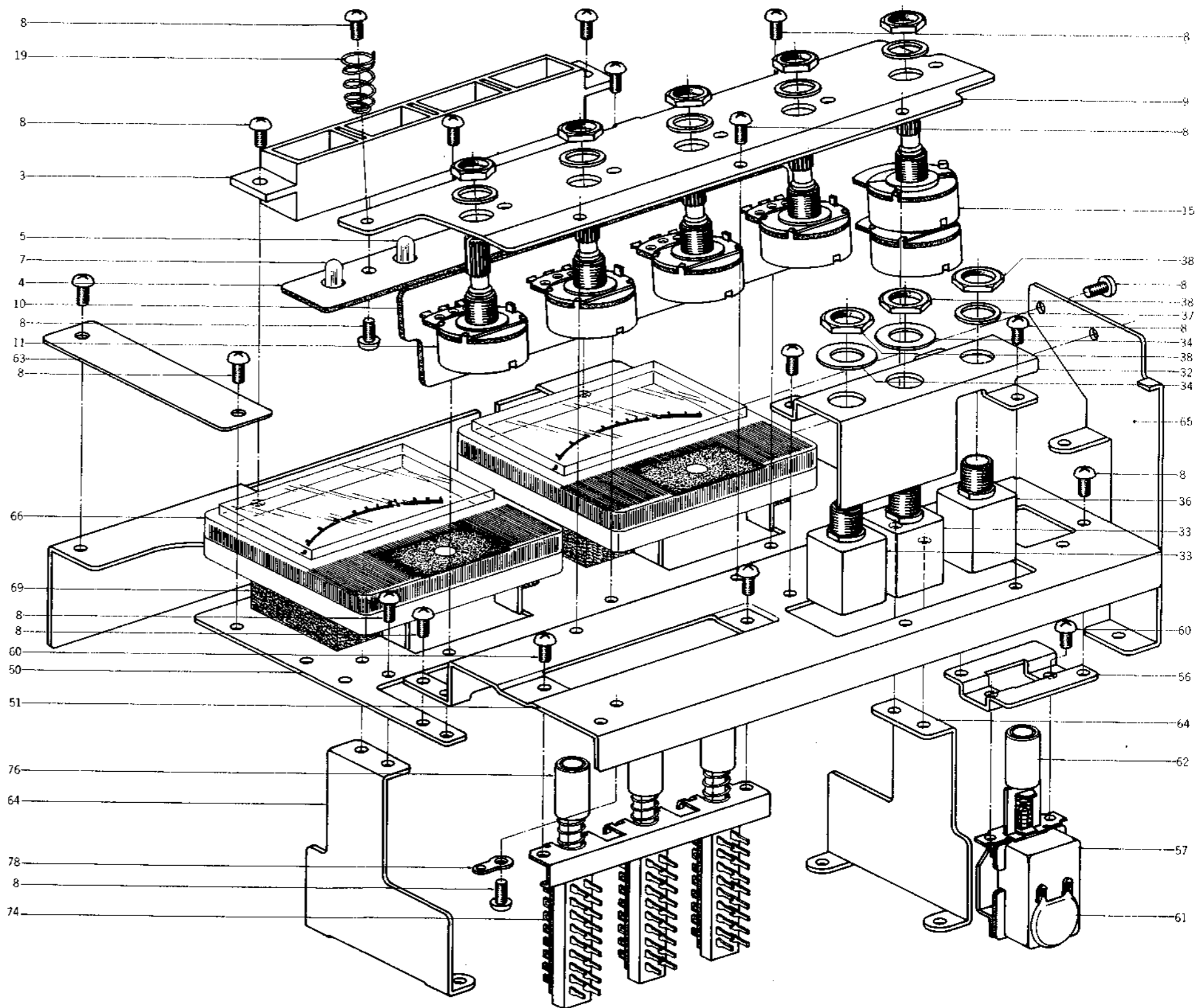


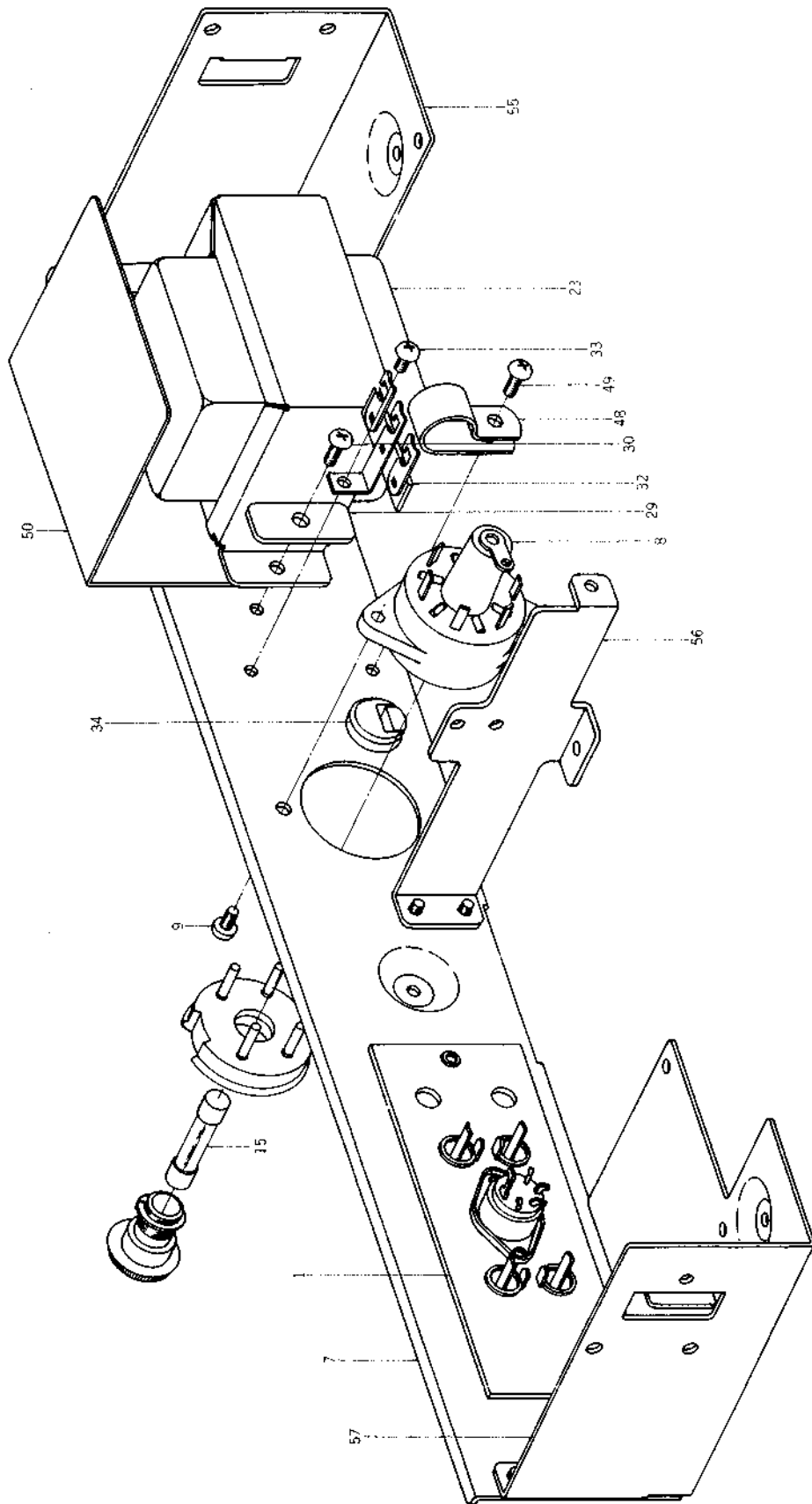
FIG. 7 ILLUSTRATION OF AMP. CHASSIS BLOCK



AMP. CHASSIS BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
LAMP HOUSE BLOCK					AMP. CHASSIS BLOCK				
7-1x	BZ592841	Lamp House Block Comp.	CH-1	1	7-50	AA596485	Amp. Chassis	CH-5001	1
7-2x	BZ592852	Lamp House Block Comp.	CH-2	1	7-51	UM586800	Amp. Chassis B	CH-5003	1
7-3	UM586934	Lamp House	CH-5004	1	7-52x	UM612268	Amp. Chassis B (500/D/502D-JPN)	CH-5313	1
7-4	EA586743	Lamp P.C. Board	CH-5011	1	7-53x	SE625061	Lamp Mask	CH-5006	1
7-5	EL603263	Lamp 24V 35MA	28-2-39	3	7-54x	UM612112	Lamp Plate (1) (500/D/502D-JPN)	CH-5302	2
7-6x	EL603268	Lamp 24V 35MA (505D)	28-2-39	2	7-55x	EL400746	Lamp 6.3V 180 MA	28-2-13	2
7-7	EL368774	Lamp 6.3V 180MA	28-2-10	1	7-56	UM586956	Power Supply SW. Base	CR-5006	1
7-8	ZS325495	Tapping Screw #2 3x6		26	7-57	ES246025	Push SW. SDF1PBP1 (UEH-12BP U/L)	25-5-11	1
VOL. CHASSIS BLOCK					7-58x	ES621178	Push SW. S-J4162 (510D-CEE)	25-5-145	1
7-9	MZ596395	Volume Bracket A	CH-5002	1	7-59x	ES621178	Push SW. S-J4162 (510D/505D-WG)	25-5-145	1
7-10	EA586765	Vol. P.C. Board	CH-5013	1	7-60	ZS422076	Screw, pan head 3x5		2
7-11	EV592457	Vol. VJ10R 50 kA	36-2-37	4	7-61	EC551160	Ceramic/C. NB821 YZ 0.01μF(Z) 1.4 kWV	24-5-55	1
7-12x	ER213715	Carbon/R. RD1/4 100k(J) (Insu. Type)	35-9-5	2	7-62	SK598397	Push Button Knob C	91-5061	1
7-13x	ER345712	Carbon/R. RD1/4 22k(J) (Insu. Type)	35-9-5	2	7-63	UM615273	Shield Plate	CH-5032	1
7-14x	ER329308	Carbon/R. RD1/4 47k(J) (Insu. Type)	35-9-5	2	7-64	UM615251	Dolby Plate	CH-5033	2
7-15	EV592468	Co-axial 2-throw/Vol. GJ10A 10KBx2	36-1-32	1	7-65	MZ596250	Bracket B	CH-1023	2
7-16x	MZ598476	Vol. Bracket B (505D)	CH-5002	1	7-66	EM573748	VU Meter KL-280B-28 (Yellow)	46-1-86	2
7-17x	EV445590	Vol. V24N 50 kA (505D)	36-2-23	2	7-67x	EM619705	VU Meter D18A41R (500/D/502D-JPN)	46-1-96	2
7-18x	ZW260280	Washer D8.1x13x1t (Nylon) (505D)	3A-302	2	7-68x	SE615374	Meter Mask A	CH-5035	2
7-19	ZG598781	Earth Spring	CH-5022	1	7-69	UM586890	VU Mat	CH-5010	2
POWER SUPPLY SW. TABLE BLOCK (502D, 500/D)					7-70x	UM612101	Lamp Table (500/D/502D-JPN)	CH-5301	1
7-20x	UM612145	Power SW. Table	CH-5312	1	7-71x	UM606420	Meter Mask	CH-5029	1
7-21x	ES469541	Push SW. TV-3 JB52	25-5-60	1	7-72x	UM612022	Bracket C (500/D/502D-JPN)	CH-5315	1
7-22x	ZS422076	Screw, pan head 3x5		2	7-73	ES592446	Push SW. 3FT-0001 CF1320	25-5-133	1
7-23x	EC551160	Ceramic/C. NB821 YZ 0.01μF (Z) 1.4kWV	24-5-55	1	7-74x	ES573671	Push SW. 1FST-6U-122-3 (505D-WG)	25-5-119	1
7-24x	SB614428	Power Button B	A5-5021	1	7-75	SK531224	Push Button Knob, w/bush	91-5061	3
7-25x	EA614788	Fuse P.C. Board B	CH-5318	1	7-76x	SK531224	Push Button Knob, w/bush (505D-WG)	91-5061	1
7-26x	EZ621415	Fuse Clip (CEE)	40-1-57	10	7-77	ZW562476	Earth Lug M3		1
7-27x	EJ618805	Lug (w/calking)	32-1-56	4	7-78x	MZ596272	Side Frame A	CH-1035	1
7-28x	EF601986	Fuse 1.5A 125V	39-1-52	3					
7-29x	EF591535	Fuse 0.8A 125V	39-1-52	1					
CONTROL CHASSIS BLOCK (502D, 500/D)									
7-30x	UM612246	Control Chassis (1) (500-JPN)	CH-5306	1					
7-31x	UM612257	Control Chassis (2) (500D/502D-JPN)	CH-5306	1					
7-32	UM586945	Mic Jack Bracket	CH-5005	2					
7-33	EJ592435	Mic. Jack 2PMJ4	31-2-44	2					
7-34	EZ225101	Jack Fiber D9.1x15.4x0.5t	DX-510	2					
7-35x	SZ614676	Nylon Collar B. Jack	CG-5217	2					
7-36	EJ601481	Mic. Jack 3PMJ4	31-2-45	1					
7-37	ZW224976	Jack Thin Washer	DX-509	1					
7-38	ZW554624	E Jack Nut	7-1-56	3					
7-39x	ER364983	Carbon/R. RD1/4 18k(J) (Insu. Type)	35-9-5	2					
7-40x	ZW330456	Adjust. Washer (U) D4x13x1t		4					
7-41x	ES619683	Push SW. 2FT-0001 CF-1310 (502D-JPN)	25-5-146	1					
7-42x	ES573671	Push SW. 1FST-6U-122-3 (500/D-JPN)	25-5-119	1					
7-43x	SB607127	Push Knob A (502D-JPN)	A5-5022	3					
7-44x	ZS422076	Screw, pan head 3x5		2					
7-45x	ZW273778	Earth Lug M3		1					
7-46x	UM612123	Lamp Plate (2)	CH-5303	1					
7-47x	EL603268	Lamp 24V 35MA	28-2-39	2					
7-48x	EV445590	Vol. V24N 50 kA (500D/502D-JPN)	36-2-23	2					
7-49x	EV619694	Double/Vol. V24L50N 100kB 15A 50K (500-JPN)	36-3-59	2					

FIG. 8 ILLUSTRATION OF REAR CHASSIS BLOCK



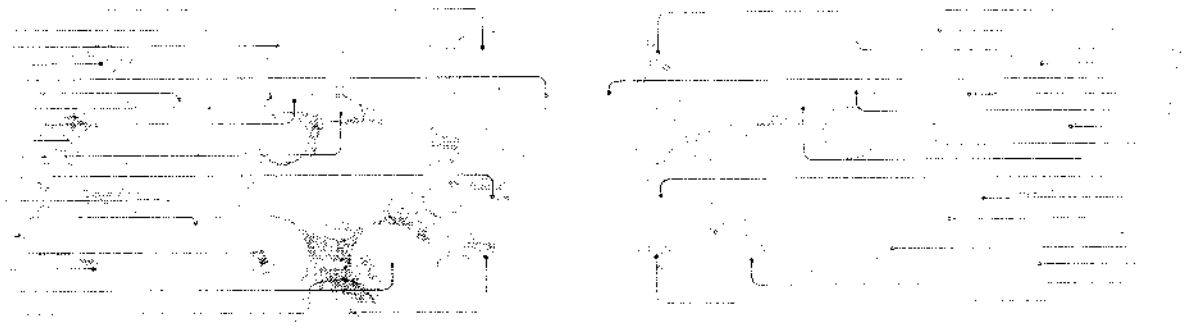
REAR CHASSIS BLOCK

Ref. No.	Part No.	Description	Quantity	Unit	Ref. No.	Part No.	Description	Quantity	Unit
JACK PLATE BLOCK									
8-1	EJ592401	Jack Plate J 2 (w/jack)	1	1	8-40x	FW486797	Power Supply Cord (VDE)	200-15	1
8-2	FS598602	Jack Plate B (w/jack) (500-JPN)	100-120	1	8-41x	SM596406	Jack Name Plate	10-500	1
8-3x	FR440421	Carbon/R. RD1/4 27k(J) (Insu. Type)	35-95	2	8-42x	SM598590	Jack Name Plate D (JPN)	10-500	1
8-4x	FR529975	Carbon/R. RD1/4 430k(I) (Insu. Type)	35-95	2	8-43x	SM596577	Jack Name Plate B (CSA)	10-500	1
8-5x	FR343413	Carbon/R. RD1/4 8.2k(I) (Insu. Type)	35-95	2	8-44x	SM598555	Jack Name Plate C (CFE)	10-500	1
8-6	FR345711	Carbon/R. RD1/4 22k(I) (Insu. Type)	35-95	2	8-45x	SM598601	Jack Name Plate E (500-JPN)	10-500	1
REAR CHASSIS BLOCK									
8-7	FR590496	Rear Chassis	1	1	8-46x	SM612491	Jack Name Plate (I) (500D/502D-JPN)	10-500	1
8-8	FR233370	Socket S-15010 (Volt. Selector)	1	1	8-47x	SM612202	Jack Name Plate (II) (500-JPN)	10-500	1
8-9	ZS201171	screw, trans head 1.3x8 (Black)	1	1	8-48	EJ432088	Nylon Clip HP-6N	10-10	1
8-10	FR590503	Insu. P.C. Board (JPN, CSA) (505D-JPN)	1	1	8-49	ZS516205	Tapping Screw #2.3x8.5B (wood)	10-10	1
8-11	FR212504	Insu. Clip, P.C. Board H0426 (JPN, CSA) (505D-JPN)	10-10	1	8-50	EZ481296	Trans. Shield, 1.1"	10-500	1
8-12	FR268711	Insu. Angle CH (JPN, CSA) (505D-JPN)	10-500	1	8-51x	UM612066	Trans. Table (500-JPN) (502D-JPN)	10-500	1
8-13	FR600092	Insu. Holder (CFE)	10-500	1	8-52x	EZ235113	Trans. Cover Mtd. plan.	10-500	1
8-14	FR271556	Pin, hex, run head Axo (JPN, CSA)	2	1	8-53x	ZW273353	Part. Eng. M4 (3.5x5.5)	10-100	1
8-15	FR590670	Fuse SA 250V	10-100	1	8-54x	ZS502536	screw, pan head 2.3x5.5 (black)	10-100	1
8-16	FR211111	Fuse SA 250V (JPN)	10-100	1	8-55	MZ596271	Side Frame A	10-100	1
8-17	FR590758	Fuse SA 250V (JPN) (505D-JPN) (w/50)	10-100	1	8-56	MZ596395	Bracket G	10-100	1
8-18	FR590840	Fuse 1A 125A (CSA)	30-50	2	8-57	MZ595631	Side Frame B	10-100	1
8-19	FR691989	Fuse 1.5A 125V (CSA)	30-50	1					
8-20	FR611942	Fuse 800MAT (Somez) (I Type) (CFE)	30-50	1					
8-21	FR691950	Fuse 800MAT (Somez) (I Type) (CFE)	30-50	1					
8-22	FR691961	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-23	FR691972	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-24	FR691983	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-25	FR691994	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-26	FR692005	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-27	FR692016	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-28	FR692027	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-29	FR692038	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-30	FR692049	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-31	FR692060	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-32	FR692071	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-33	FR692082	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-34	FR692093	Fuse 1.6AT (Somez) (I Type) (CFE)	30-50	1					
8-35	EZ146176	Beam Roller (N0-W) (V)	1	1					
8-36x	EA540127	AC Cord USA (V-F)	2-12	1					
8-37x	FW524544	AC Cord (V-F) (JPN)	50-50	1					
8-38x	FW318143	AC Cord (V-F) (CSA)	20-10	1					
8-39x	FW516500	Power Cord V-M 0005 (V-F)	50-50	1					

PRE-AMP. P.C. BOARD (CH-5012) BLOCK

Symbol No.	Parts No.	Description	Q'ty	Symbol No.	Parts No.	Description	Q'ty
9-1x	BA592784	Pre-amp. P.C. Board Comp.(CH-5012)	1				
9-2x	BA592795	Pre-amp. P.C. Board Comp. (CH-5012) (505D)	1				
9-3x	BA619942	Pre-amp. P.C. Board Comp. (CH-5012) (500-JPN)	1				
9-4x	BA619953	Pre-amp. P.C. Board Comp. (CH-5012) (500D/502D-JPN)	1				
9-TR1, 2	ET391768	Transistor 2SC458LG(C) (D)	4				
9-TR1, 2	ET603257	Transistor 2SC1312S(G) (H) (500/D/502D-JPN)	4				
9-TR3	ET517263	Transistor 2SC1312(G) (H)	2				
9-TR4to8	ET520841	Transistor 2SC711(E) (F) (G)	10				
9-D1, D2	ED219464	Germanium Diode 1N34A					
9-D3to8	ED560913	Silicon Diode 1S2473 VE	12				
9-VR1	EV554670	Semi-fixed/Vol. V10K8-1-5 1k Ω	2				
9-VR2	EV554668	Semi-fixed/Vol. V10K8-1-5 20 k Ω	2				
9-T1	BT517274	Headphone Trans. N16-535S	2				
9-SW1	ES494076	Slide SW. CL-109B	2				
9-L1	EO483827	Ferri Inductor FL11H 56MH(J)	2				
9-L1	EO368403	Ferri Inductor FL9H 33MH(J) (505D, 500/D/502D-JPN)	2				
9-L2	EO368403	Ferri Inductor FL9H 33MH(J)	2				
9-L3	EO243988	Ferri Inductor FL7H 3.3MH(J)	2				
9-L4, 5	EO368403	Ferri Inductor FL9H 33MH(J)	4				
9-L5	EO368403	Ferri Inductor FL9H 33MH(J) (505D, 500/D/502D-JPN)	2				
		Capacitor, Vertical Type					
9-C1	EC320051	Elect. 10 μ F 16WV	2				
9-C2	EC405898	Styrof 470PF(J) 50WV	2				
9-C3	EC513990	Styrof 330PF(J) 50WV	2				
9-C4	EC483366	VFM 90PF(J) 50WV	2				
9-C5	EC320051	Elect. 10 μ F 16WV	2				
9-C6	EC493637	Elect. 47 μ F 10WV	2				
9-C7	EC432810	Elect. 10 μ F 16WV NL	2				
9-C8	EC250683	Mylar 0.0022 μ F(J) 50WV	2				
9-C9	EC389485	Mylar 0.018 μ F(J) 50WV	2				
9-C10	EC220127	Elect. 100 μ F 16WV	2				
9-C11	EC450527	Elect. 4.7 μ F 25WV	2				
9-C12	EC320051	Elect. 10 μ F 16WV	2				
9-C13	EC565830	Styrof 200PF(J) 50WV	2				
9-C14	EC493637	Elect. 47 μ F 10WV	2				
9-C15	EC399565	VFM 22PF(J) 500WV	2				
9-C16	EC320051	Elect. 10 μ F 16WV	2				
9-C17	EC493637	Elect. 47 μ F 10WV	2				
9-C18	EC310792	VFM 120PF(J) 50WV	2				
9-C18	EC565830	Styrof 200PF(J) 50WV (505D)	2				
9-C19,20	EC320051	Elect. 10 μ F 16WV	4				
9-C21	EC493637	Elect. 47 μ F 10WV	2				
9-C22	EC313108	Elect. 1 μ F 50WV	2				
9-C23	EC336126	Elect. 47 μ F 25WV	2				
9-C24	EC320051	Elect. 10 μ F 16WV	2				
9-C25	EC487157	NP 0.47 μ F(M) 50WV	2				
9-C26	EC391004	Mylar 0.0033 μ F(J) 50WV	2				
9-C27	EC450527	Elect. 4.7 μ F 25WV	2				
9-C28,29	EC565830	Styrof 200PF(J) 50WV	4				
9-C30	EC379157	Mylar 0.033 μ F(J) 50WV	2				
9-C31	EC320051	Elect. 10 μ F 16WV	2				
		Resistor, Stopper Type					
9-R1	ER304345	Carbon RD1/4 4.7k(J)	2				
9-R2	ER306887	Carbon RD1/4 15k(J)	2				
9-R3	ER357570	Carbon RD1/4 150k(J)	2				
9-R4	ER426857	Carbon RD1/4 270k(J)	2				
9-R5	ER212264	Carbon RD1/4 22k(J)	2				
9-R6	ER336442	Carbon RD1/4 10k(J)	2				
9-R7	ER306843	Carbon RD1/4 1.2k(J)	2				
9-R8	ER304345	Carbon RD1/4 4.7k(J)	2				
9-R9	ER343078	Carbon RD1/4 2.7k(J)	2				
9-R10	ER212264	Carbon RD1/4 22k(J)	2				
9-R11	ER324202	Carbon RD1/4 5.1k(J)	2				
9-R12	ER399060	Carbon RD1/4 9.1k(J)	2				
9-R13	ER450011	Carbon RD1/4 120k(J)	2				
9-R14	ER336442	Carbon RD1/4 10k(J)	2				
9-R15	ER304345	Carbon RD1/4 4.7k(J)	2				
9-R15	ER306887	Carbon RD1/4 15k(J) (505D) (500/D/502D-JPN)	2				
9-R16	ER357412	Carbon RD1/4 220(J)	2				
9-R17	ER211465	Carbon RD1/4 1k(J)	2				
9-R18	ER357491	Carbon RD1/4 82k(J)	2				
9-R19	ER212477	Carbon RD1/4 3.3k(J)	2				
9-R20	ER213030	Carbon RD1/4 5.6k(J)	2				
9-R21	ER211757	Carbon RD1/4 100k(J)	2				
9-R22,23	ER213300	Carbon RD1/4 680(J)	4				
9-R24	ER346601	Carbon RD1/4 47k(J)	2				
9-R24	ER342933	Carbon RD1/4 27k(J) (505D) (500/D/502D-JPN)	2				
9-R25	ER212264	Carbon RD1/4 22k(J)	2				
9-R25	ER349907	Carbon RD1/4 33k(J) (505D) (500/D/502D-JPN)	2				
9-R26	ER212681	Carbon RD1/4 330(J)	2				
9-R27	ER420322	Carbon RD1/4 36k(J)	2				
9-R28	ER211465	Carbon RD1/4 1k(J)	2				
9-R29	ER211757	Carbon RD1/4 100k(J)	2				
9-R30	ER212883	Carbon RD1/4 4.7k(J)	2				
9-R31	ER213030	Carbon RD1/4 5.6k(J)	2				
9-R32	ER395460	Carbon RD1/4 1.3k(J)	2				
9-R33	ER211320	Carbon RD1/4 1.5k(J)	2				
9-R35	ER211757	Carbon RD1/4 100k(J)	2				
9-R36	ER213030	Carbon RD1/4 5.6k(J)	2				
9-R37	ER212883	Carbon RD1/4 4.7k(J)	2				
9-R38	ER343078	Carbon RD1/4 2.7k(J)	2				
9-R39	ER357412	Carbon RD1/4 220(J)	2				
9-R40	ER306887	Carbon RD1/4 15k(J)	2				
9-R41	ER211757	Carbon RD1/4 100k(J)	2				
9-R42	ER306360	Carbon RD1/4 6.8k(J)	2				
9-R43	ER304290	Carbon RD1/4 10(J)	2				
9-R44	ER211465	Carbon RD1/4 1k(J)	2				
9-R45	ER343078	Carbon RD1/4 2.7k(J)	2				
9-R46	ER306887	Carbon RD1/4 15k(J) (500-JPN)	2				

FIG. 10 PHOTO OF DOLBY P.C. BOARD (CP-5005) BLOCK

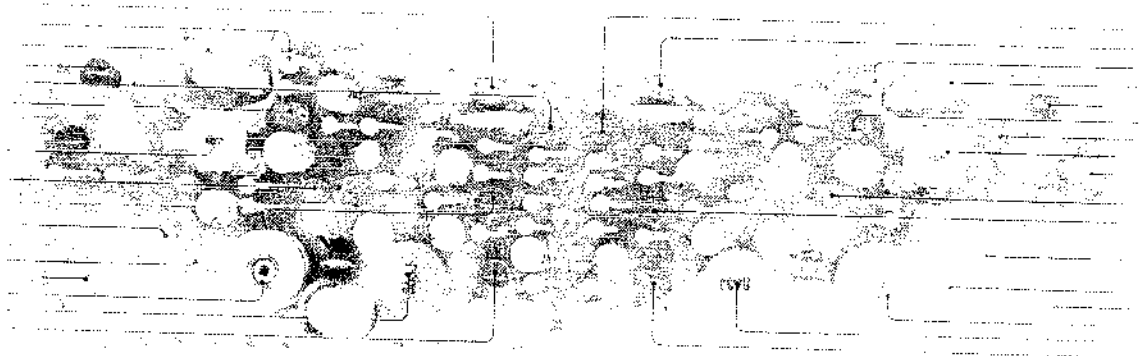


DOLBY P.C. BOARD (CP-5005) BLOCK

Quantity	Part No.	Description	Qty	Symbol	Part No.	Description	Qty
1	BA772084	Dolby P.C. Board (Comp. 12) (CP-5005)	1				
10	TR12	Transistor 2N3617(S) (E) (P)	10			Resistor, Stopper Type	
10	TR1	Transistor 2N3613(G) (E) (P)	10	10-R1	ER336441	Carbon RD1/4 100k(Ω)	10
10	TR4	Transistor 2SC711(L) (E) (P)	10	10-P1	ER212477	Carbon RD1/4 3.3k(Ω)	10
10	TR2	VT1 2N4301 (RR)	10	10-P2	FR379631	Carbon RD1/4 100k(Ω)	10
10	TR3	Transistor 2N4320 (RR)	10	10-P3	ER346651	Carbon RD1/4 2.2k(Ω)	10
10	TR7	Transistor 2N4628 (E) (P)	10	10-R5	ER212477	Carbon RD1/4 3.3k(Ω)	10
10	TR6	Transistor 2N3711 (E) (P) (C)	10	10-R1	FR364493	Carbon RD1/4 4.7k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R2	ER213863	Carbon RD1/4 12k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R3	ER213867	Carbon RD1/4 100k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R4	ER213859	Carbon RD1/4 12k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R10	FR357456	Carbon RD1/4 2.2k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R11	FR349907	Carbon RD1/4 3.3k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R12	ER357579	Carbon RD1/4 150k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R13	ER213757	Carbon RD1/4 100k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R14	ER336447	Carbon RD1/4 10k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R15	ER212282	Carbon RD1/4 22k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R16	ER212280	Carbon RD1/4 22k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R17	FR349912	Carbon RD1/4 8.2k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R18	ER371948	Carbon RD1/4 2k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R19	ER349907	Carbon RD1/4 3.3k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R20	FR430304	Carbon RD1/4 820k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R21	FR349907	Carbon RD1/4 3.3k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R23	FR387535	Carbon RD1/4 39k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R24	ER212177	Carbon RD1/4 3.3k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R25	FR357158	Carbon RD1/4 2.2k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-P26	FR349942	Carbon RD1/4 8.2k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R27	FR366847	Carbon RD1/4 1.2k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R28	ER430097	Carbon RD1/4 680k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R29	ER306587	Carbon RD1/4 15k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R30	ER212883	Carbon RD1/4 4.7k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R31	FR336442	Carbon RD1/4 10k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R31.33	FR349942	Carbon RD1/4 8.2k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R34	FR349907	Carbon RD1/4 3.3k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R35	ER450011	Carbon RD1/4 120k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R36	FR349907	Carbon RD1/4 47k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R37	FR343078	Carbon RD1/4 2.7k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R38	FR214458	Carbon RD1/4 1k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R39	ER215126	Carbon RD1/4 56k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R40	FR361642	Carbon RD1/4 47k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R41	FR366851	Carbon RD1/4 15k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R42.43	ER436857	Carbon RD1/4 270k(Ω)	10
10	FD219484	Germanium Diode (N344)	10	10-R44	FR380711	Carbon RD1/4 220k(Ω)	10

When ordering parts, please describe Part Number, Serial Number, and Model Number in detail.

FIG. 11 PHOTO OF DOLBY P.C. BOARD (CH-5316) BLOCK



DOLBY P.C. BOARD (CH-5316) BLOCK

Symbol No.	Parts No.	Description	Qty	Symbol No.	Parts No.	Description
11-00	BA820076	Dolby P.C. Board Comp. (CH-5316)(502D)	1	11-R12	FR306360	Resistor, Stopper Type Carbon RD1/4 6.3k(J)
11-R1	FT619637	Transistor 2SC1647(Q)(R)(S)(E)(U)	4	11-R3	ER349907	Carbon RD1/4 5.7k(J)
11-R2	FT619648	Transistor 2SC1648(Q)(R)(S)(E)(U)	2	11-R4	FR306360	Carbon RD1/4 6.3k(J)
11-R3	FT619637	Transistor 2SC1647(Q)(R)(S)(E)(U)	2	11-R5	ER336442	Carbon RD1/4 7.5k(J)
11-R4	FT582870	FEET 2SK30 (N) (GR)	2	11-R6	ER212477	Carbon RD1/4 3.3k(J)
11-R5	FT619648	Transistor 2SC1648(Q)(R)(S)(E)(U)	2	11-R6	ER349907	Carbon RD1/4 5.7k(J)
11-R7	FT619738	Transistor 2SA628(E)(F)(G)	2	11-R9	ER357570	Carbon RD1/4 150k(J)
11-R8	FT619637	Transistor 2SC1647(Q)(R)(S)(E)(U)	2	11-R10	ER211757	Carbon RD1/4 10k(J)
11-R9	FD562386	Germanium Diode 1S138AM	2	11-R11	ER336442	Carbon RD1/4 10k(J)
11-R10	ED491139	Zener Diode WZ-055	1	11-R12	ER357570	Carbon RD1/4 150k(J)
11-R11	ED560913	Silicon Diode 1S2473VE	4	11-R13	ER212264	Carbon RD1/4 22k(J)
11-R12	ED562386	Germanium Diode 1S138AM	2	11-R14	ER349907	Carbon RD1/4 5.7k(J)
11-R13	ED560913	Silicon Diode 1S2473VE	2	11-R15	ER212477	Carbon RD1/4 3.3k(J)
11-R14	EV499364	Semi-Fixed, Vol. V10K8-4-2 50W	2	11-R16	FR349907	Carbon RD1/4 5.7k(J)
11-R15	EV499377	Semi-Fixed, Vol. V10K8-4-2 500W	2	11-R17	FR346601	Carbon RD1/4 4.7k(J)
11-R16	ED560913	Inductor 1-6L Y 36MH(J)	2	11-R18	ER212177	Carbon RD1/4 3.3k(J)
11-R17	ED499364	Inductor 60/10GE 25MH(J)	2	11-R19	FR306602	Carbon RD1/4 1.2k(J)
11-R18		Capacitor, Vertical Type Mylar 0.0039μF(T) 50WV	1	11-R20	ER349942	Carbon RD1/4 8.2k(J)
11-R19	EC250787	styrol 300PF(J) 50WV	1	11-R21	ER211464	Carbon RD1/4 10k(J)
11-R20	EC250983	Mylar 0.0022μF(J) 50WV	1	11-R22	ER-19640	Carbon RD1/4 11M(J)
11-R21	EC329051	Elect. 10μF 16WV	3	11-R23	ER349942	Carbon RD1/4 8.2k(J)
11-R22	EC329120	Elect. 220μF 16WV	1	11-R24	ER308487	Carbon RD1/4 1.8k(J)
11-R23	EC619661	Ceramic DD350 B 150Pc/K) 50WV	2	11-R25	TR212883	Carbon RD1/4 4.7k(J)
11-R24	EC329383	Mylar 0.0036μF(J) 50WV	2	11-R26	ER336442	Carbon RD1/4 10k(J)
11-R25	EC337500	Mylar 0.0047μF(J) 50WV	2	11-R27,28	ER349942	Carbon RD1/4 8.2k(J)
11-R26	EC329861	Mylar 0.027μF(J) 50WV	2	11-R29	ER349907	Carbon RD1/4 33k(J)
11-R27	EC320051	Elect. 10μF 16WV	2	11-R30	ER450011	Carbon RD1/4 120k(J)
11-R28	EC251291	Mylar 0.1μF(K) 50WV	2	11-R31	ER346601	Carbon RD1/4 4.7k(J)
11-R29	EC493637	Elect. 47μF 10WV	2	11-R32	ER343078	Carbon RD1/4 2.7k(J)
11-R30	EC320051	Elect. 10μF 16WV	2	11-R33	ER211465	Carbon RD1/4 1k(J)
11-R31	EC251291	Mylar 0.1μF(K) 50WV	2	11-R34	FR213120	Carbon RD1/4 56(J)
11-R32	EC320051	Elect. 10μF 16WV	2	11-R35	FR361642	Carbon RD1/4 47(J)
11-R33	EC251291	Mylar 0.1μF(K) 50WV	2	11-R36	ER306887	Carbon RD1/4 15k(J)
11-R34	EC320051	Elect. 10μF 16WV	2	11-R37,38	ER426637	Carbon RD1/4 270k(J)
11-R35	EC251291	Mylar 0.1μF(K) 50WV	4	11-R39	ER360711	Carbon RD1/4 220k(J)
11-R36	EC604102	Solid Aluminum 0.33μF(K) 25WV	2	11-R40	FR213467	Carbon RD1/4 820(J)

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 12 PHOTO OF SYS. CON. P.C. BOARD (CG-1413) BLOCK

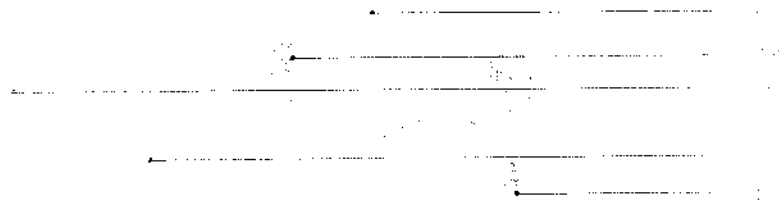


FIG. 13 PHOTO OF POWER SUPPLY P.C. BOARD (CG-5401) BLOCK

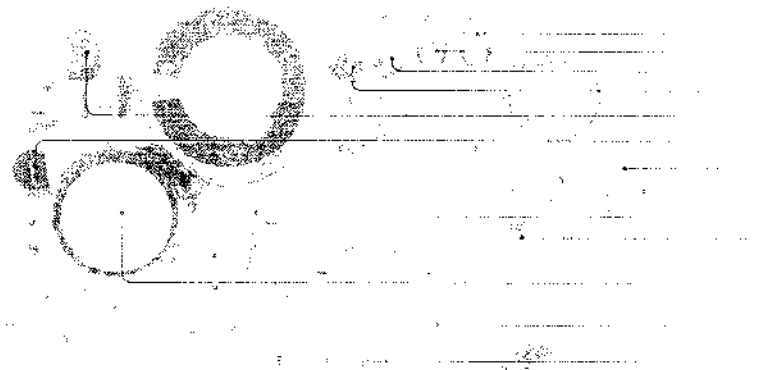
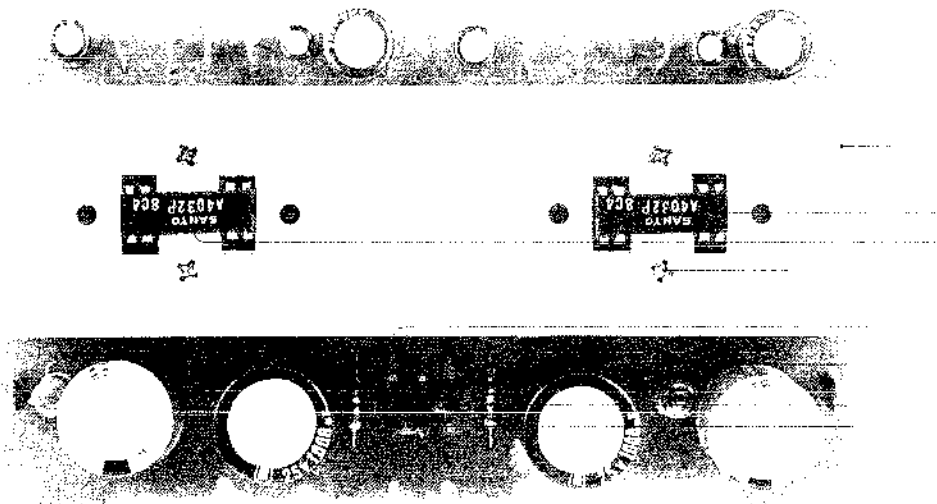


FIG. 14 PHOTO OF MAIN AMP. P.C. BOARD (CG-5403) BLOCK



SYS. CON. P.C. BOARD (CG-1413) BLOCK

Symbol No.	Parts No.	Description	Q'ty
12-1x	BA557335	Sys. Con. P.C. Board Comp. (CG-1413)	1
12-TR1	ET398777	Transistor 2SC711(G)(F)	1
12-TR2	ET517375	Transistor 2SD360(D)(E)	1
12-TR3	ET539122	Transistor 2SA733(P) (Q)(R)	1
12-D1	ED515790	Silicon Diode WG-713	1
12-D2	ED516420	Silicon Diode WG-599	1
12-C1,2	EC220151	Elect./C. 100 μ F 25WV (Vertical Type)	2
Resistor, Stopper Type			
12-R1,2	ER212883	Carbon RD1/4 4.7k(J)	2
12-R3	ER212477	Carbon RD1/4 3.3k(J)	1
12-R5	ER212477	Carbon RD1/4 3.3k(J)	1
12-R6	ER212264	Carbon RD1/4 22k(J)	1
12-R7	ER346994	Carbon RD1/4 18k(J)	1
12-R8	ER357456	Carbon RD1/4 2.2k(J)	1
12-R9	ER550811	Carbon RD1/2 1.5k(J)	1
12-R10	ER430018	Carbon RD1/4 1(J)	1
12-R11	ER357456	Carbon RD1/4 2.2k(J)	1
12-R12	ER212264	Carbon RD1/4 22k(J)	1

POWER SUPPLY P.C. BOARD (CG-5401) BLOCK

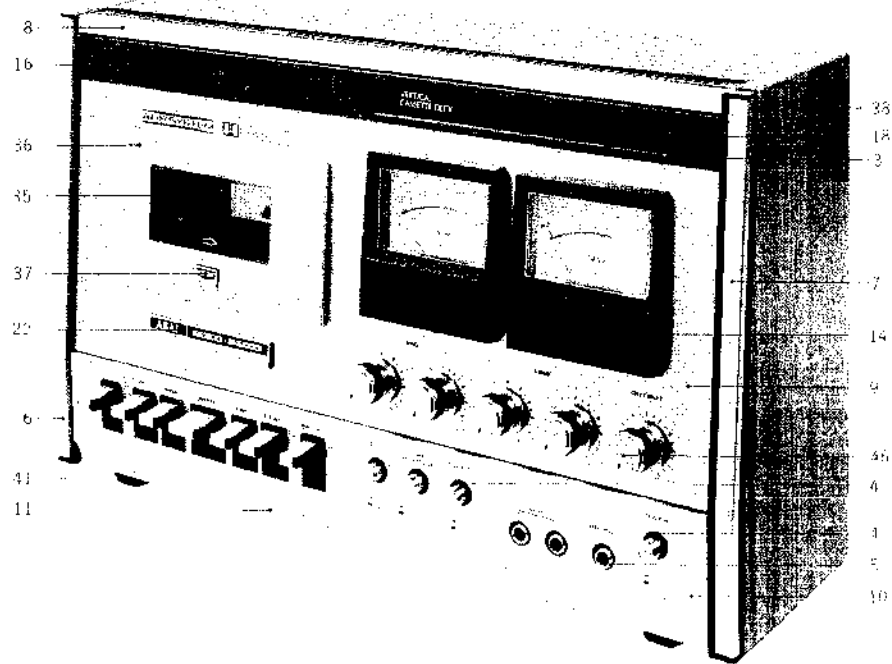
Symbol No.	Parts No.	Description	Q'ty
13-1x	BZ592863	Power Supply P.C. Board Comp. (CG-5401)	1
13-2x	BZ602133	Power Supply P.C. Board Comp. (CG-5401)(JPN,CEE,CSA)	1
13-3x	BA622945	Power Supply P.C. Board Comp. (CG-5401)(500/D/502D)	1
13-TR1	ET453611	Transistor 2SC1096(L)(K)(Z Type)	1
13-TR2,3	ET517994	Transistor 2SC945(P)(Q)(R)(K)	2
13-D1to4	ED511097	Silicon Diode 1N4001	4
13-D5	ED498150	Zener Diode W Z-192	1
13-T1	EO496844	OSC. Coil OT-903	1
13-VR1,2	EV499882	Semi-fixed/V91. V10K8-4-2 300 k Ω	2
13-4	UM518646	Heat-sink Plate B	1
13-5	ZS321298	ISO Screw, binding head 3x8	1
13-6	ZW273756	Nut M3	1
13-7	ZS413728	Screw, binding head 3x6, w/washer	2
Capacitor, Vertical Type			
13-C1	EC432652	Elect. 1000 μ F 35WV	1
13-C3,4	EC220151	Elect. 100 μ F 25WV	2
13-C5	EC250841	Mylar 0.01 μ F(J) 50WV	1
13-C6	EC220994	Elect. 10 μ F 25WV	1
13-C7	EC250841	Mylar 0.01 μ F(J) 50WV	1
13-C8	EC554602	Styrol 3300PF(J) 250WV	1
13-C9,10	EC290531	VFM 100PF(K) 50WV	2
13-C11	EC220994	Elect. 10 μ F 25WV	1
Resistor, Stopper Type			
13-R1	ER520852	Carbon RD1/2 4.7(J) (Insu. Type)	1
13-R1	ER556492	Solid RD1/2 4.7(K) (500/D, 502D)	1
13-R2	ER213300	Carbon RD1/4 680(J)	1
13-R3	ER212681	Carbon RD1/4 330(J)	1
13-R4	ER430053	Carbon RD1/4 22(J)	1
13-R5	ER517397	Carbon RD1/2 220(K)	1
13-R6	ER304290	Carbon RD1/4 10(J)	1
13-R7	ER212883	Carbon RD1/4 4.7k(J)	1
13-R8	ER304290	Carbon RD1/4 10(J)	1
13-R9	ER212681	Carbon RD1/4 330(J)	1

MAIN AMP. P.C. BOARD (CG-5403) BLOCK

Symbol No.	Parts No.	Description	Q'ty
14-1x	BA559980	Main Amp. P.C. Board Comp. (CG-5403)	1
14-IC1	EI517342	I.C. Power Amp. LA-4032P	2
14-D1to4	ED511097	Silicon Diode 1N4001	4
14-2	EZ542035	Heat-sink B	1
14-3	UM518668	I.C. Retaining Metal	1
14-4	ZS417194	Screw, binding head 3x10	4
14-5	ZW273756	Nut M3	4
Capacitor, Vertical Type			
14-C1	EC320051	Elect. 10 μ F 16WV	2
14-C2	EC450066	Elect. 33 μ F 16WV	2
14-C3	EC321208	Elect. 220 μ F 16WV	2
14-C4	EC250661	Mylar 0.0015 μ F(K) 50WV	2
14-C5	EC362158	Mylar 0.0047 μ F(K) 50WV	2
14-C6	EC515834	Styrol 560PF(K) 50WV	2
14-C7	EC450270	Elect. 1000 μ F 25WV	2
14-C8	EC336148	Elect. 1000 μ F 16WV	2
14-C9	EC250885	Mylar 0.01 μ F(K) 50WV	2
Resistor, Stopper Type			
14-R1	ER212681	Carbon RD1/4 330(J)	2
14-R2	ER517320	Carbon RD1/4 0.5(J)	2
14-R3	ER336442	Carbon RD1/4 10k(J)	2
14-R4	ER306887	Carbon RD1/4 15k(J)	2

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 15 PHOTO OF FINAL ASSEMBLY BLOCK



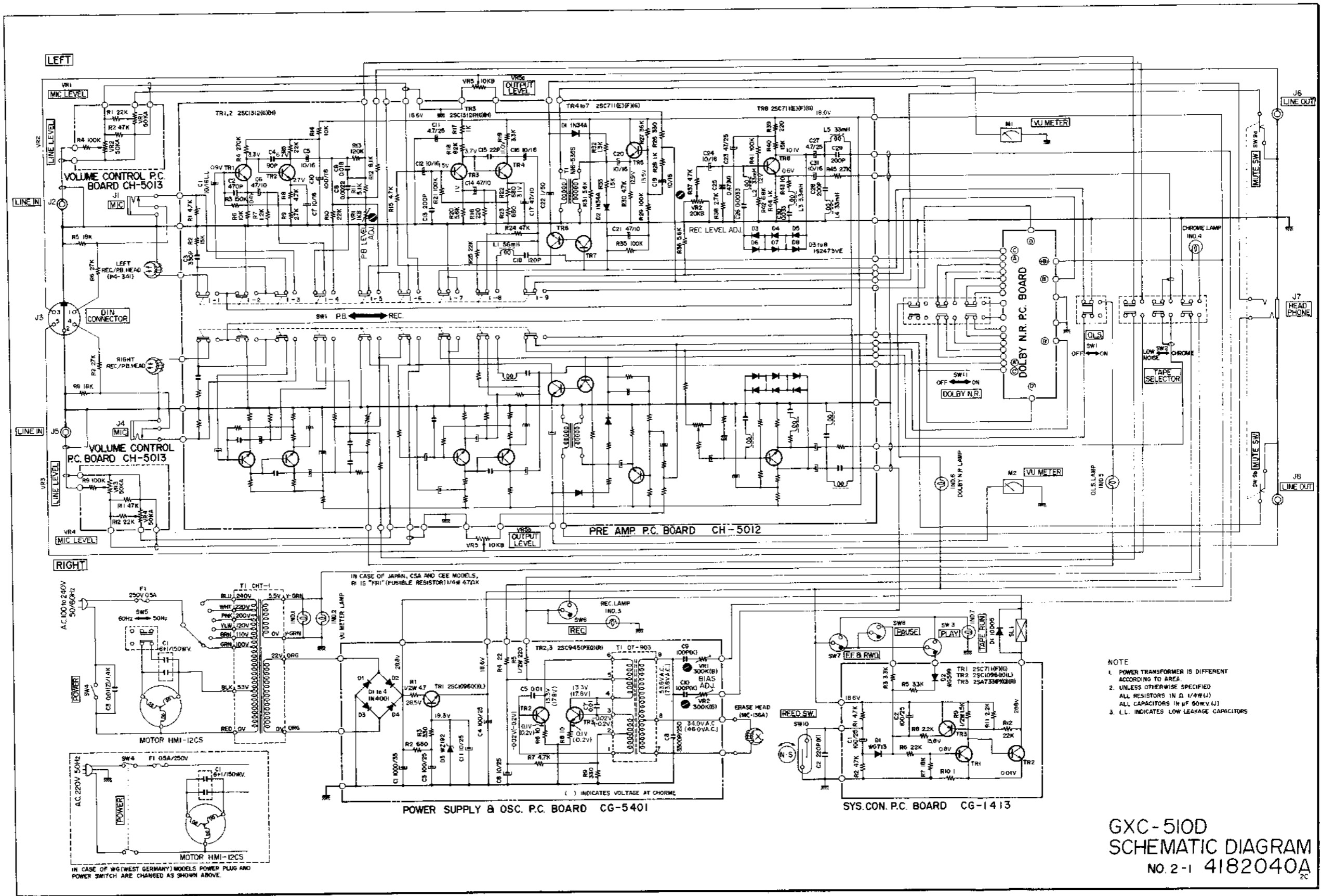
FINAL ASSEMBLY BLOCK

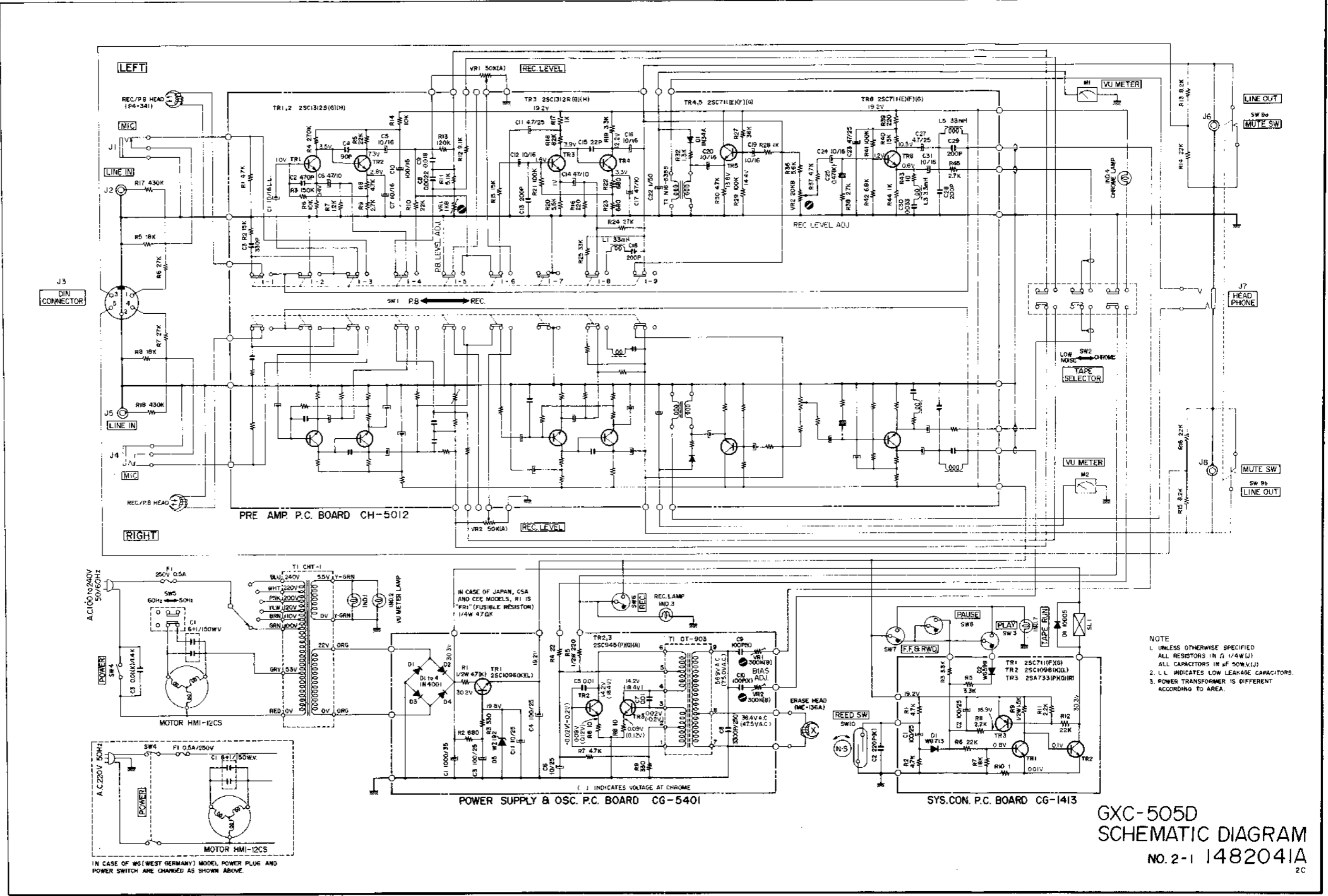
Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
FRONT PANEL BLOCK					ASSEMBLY BLOCK				
15-1x	BZ592694	Front Panel Block Comp.	CH-1	1	15-35	SZ596441	Lid Case	CH-6017	1
15-2x	BZ592705	Front Panel Block Comp. (505D)	CH-2	1	15-36	SP596452	Lid Panel	CH-6018	1
15-3	SP596520	Front Panel	CH-6001	1	15-37	SM518310	Name Plate (GX) B	CG-6011	1
15-4	SE598803	SW. Collar B	LP-5301	4	15-38	SC596531	Case	CH-6021	1
15-5	UM586822	Mic Jack Color	CH-6015	3	15-39x	BC612235	Case	CH-6306	1
15-6	SE596417	Sash (Left)	CH-6002	1	15-40x	SP612213	Rear Cover	CH-6311	1
15-7	SE596428	Sash (Right)	CH-6002	1	15-41	UM586776	Rubber Foot	CH-6022	2
15-8	SP586901	Case Panel 1	CH-6003	1	15-42x	ZS462802	Tapping Screw #2 3x15 (BR)		7
15-9	SP596507	Case Panel 2	CH-6004	1	15-43x	ZS608973	Tapping Screw #2 3x20 oval countersunk		2
15-10	SP596518	Case Panel 3	CH-6006	1	15-44x	ZW259571	Washer D3.4x13x1t		1
15-11	SP586912	Case Panel 4	CH-6008	1	15-45	SK586844	Single Knob 2	CH-6020	5
15-12x	SP586361	Case Panel 5 (505D)	CH-6201	1	15-46x	SK548662	Volume Knob Comp. (505D)	MU-6219	2
15-13x	SP598465	Case Panel 6 (505D)	CH-6203	1	15-47x	SK612156	Single Knob (1) (502D,500D)	CH-6307	2
15-14	SE596430	Meter Escutcheon	CH-6016	2	15-48x	SK612033	Double Knob (Upper) (500)	CH-6312	2
15-15x	ZW618884	Nut M2 #1		8	15-49x	SK612044	Double Knob (Lower) (500)	CH-6313	2
15-16	SM586923	Counter Name Plate A	CH-6009	1	15-50x	SM598566	Rear Name Plate GXC-510D	CG-6510	1
15-17x	UM 586855	Tape Run Lens	CH-6010	1	15-51x	SM598555	Rear Name Plate GXC-505D	CG-6212	1
15-18	UM586811	Mode Plate	CH-6014	1	15-52x	SM614261	Rear Name Plate GXC-500	CG-6212	1
15-19x	MZ598713	Mode Plate B (505D)	CH-6014	1	15-53x	SM614272	Rear Name Plate GXC-500D	CG-6212	1
15-20x	MZ598792	Plate Retainer	CH-6032	1	15-54x	SM614283	Rear Name Plate GXC-502D	CG-6510	1
15-21x	ZS432674	Screw, pan head 3x3		2	15-55x	SC598406	Cycle Cover	CH-6030	1
15-22	SM586787	GXC-510D Name Plate	CH-6023	1	15-56x	ZS324448	Tapping Screw #1 3x10 (truss) (black)		2
FRONT CASE BLOCK					15-57x	UM609974	Retaining Metal Parts	CH-6038	2
15-23x	BC619885	Front Case Block Comp. (500)	CH-3	1	15-58x	SA522854	Rubber Foot LSR-15D	PX-3008	2
15-24x	BC619896	Front Case Block Comp. (500D)	CH-3	1	15-59x	ZW272756	Nut M3		2
15-25x	BC619907	Front Case Block Comp. (502D)	CH-3	1	15-60x	ZW616004	Washer D3.2x8x1t		2
15-26x	UM612281	Front Case 1 (502D)	CH-6301	1	15-61x	ZW419670	ISO Screw, pan head 3x12		2
15-27x	UM612292	Front Case 2 (500/D)	CH-6301	1	15-62x	EF563670	Fuse 0.5A 250V	39-1-50	2
15-28x	SP612270	Upper Panel (500)	CH-6309	1					
15-29x	SP612516	Upper Panel B (500D)	CH-6309	1					
15-30x	SP612404	Upper Panel C (502D)	CH-6309	1					
15-31x	SE612224	Sash	CH-6305	1					
15-32x	SE612055	Lamp Lens A (Red)	CH-6314	1					
15-33x	SE612077	Lamp Lens B (Orange)	CH-6314	1					
15-34x	UM494267	Lamp Cover	CG-2206	2					

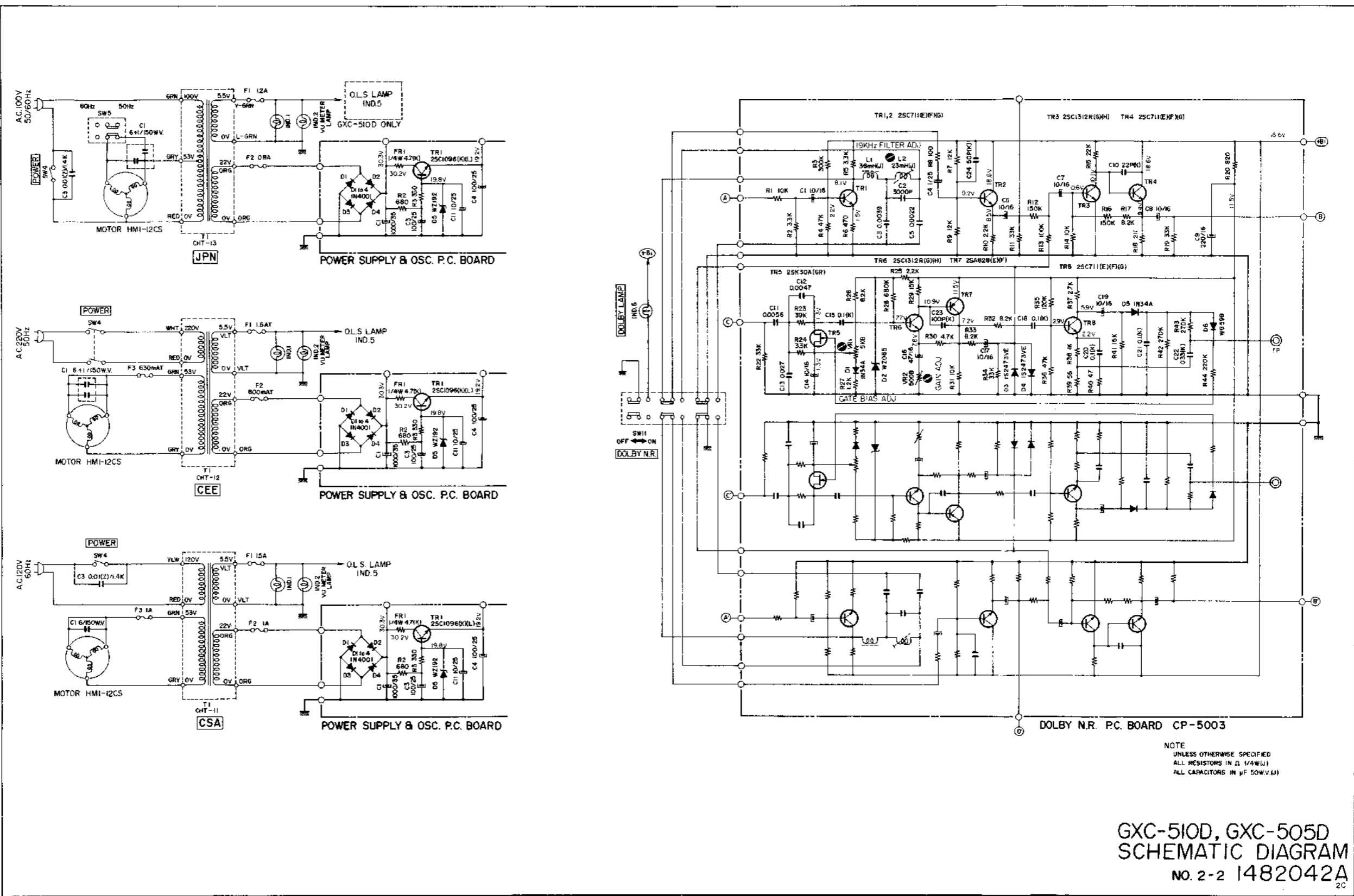
When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

INDEX

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
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EV499882	13-VR1,2	MZ596261	6-28	UM394200	3-27	ZG305010	5-58	ZW260280	7-18x
EV554668	9-VR2	MZ596272	7-78x	UM456671	6-50	ZG365433	5-28	ZW270088	1-8
EV554670	9-VR1	MZ596272	8-55	UM456682	6-83	ZG385075	3-7	ZW270088	3-26
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EV619694	7-49x	MZ596305	8-56	UM456750	6-59	ZG392804	6-3	ZW270101	2-4
EW315448	8-38x	MZ596340	5-60	UM456783	6-2	ZG456930	5-32	ZW270101	5-72
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EW516600	8-39x	MZ596463	5-20	UM456928	5-30	ZG457380	1-7	ZW272756	15-59x
EW524845	8-37x	MZ596496	8-7	UM456941	5-31	ZG459224	6-9	ZW273688	1-16
EW540123	8-36x	MZ598476	7-16x	UM456952	5-33	ZG460484	6-48	ZW273756	2-26x
EZ225101	7-34	MZ598713	15-19x	UM456963	5-29	ZG465636	1-10	ZW273756	4-4
EZ235113	8-52x	MZ598724	8-12x	UM456996	6-42	ZG469315	5-36	ZW273756	13-6
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EZ486617	8-29	SB499195	6-54	UM461878	6-5	ZG514697	1-25	ZW273881	8-53x
EZ542035	14-2	SB607127	7-43x	UM461880	6-6	ZG514697	5-56	ZW290283	5-24
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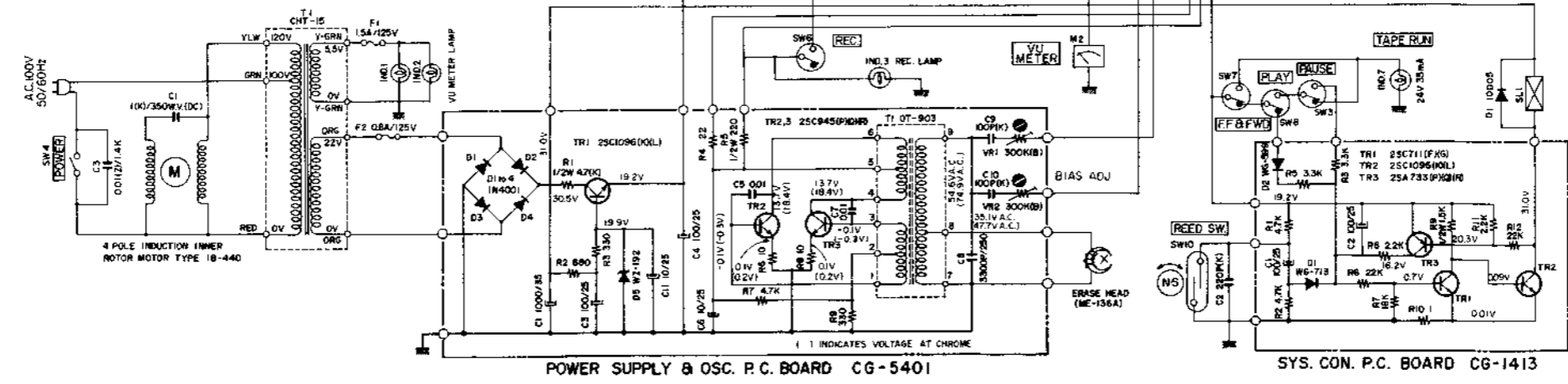
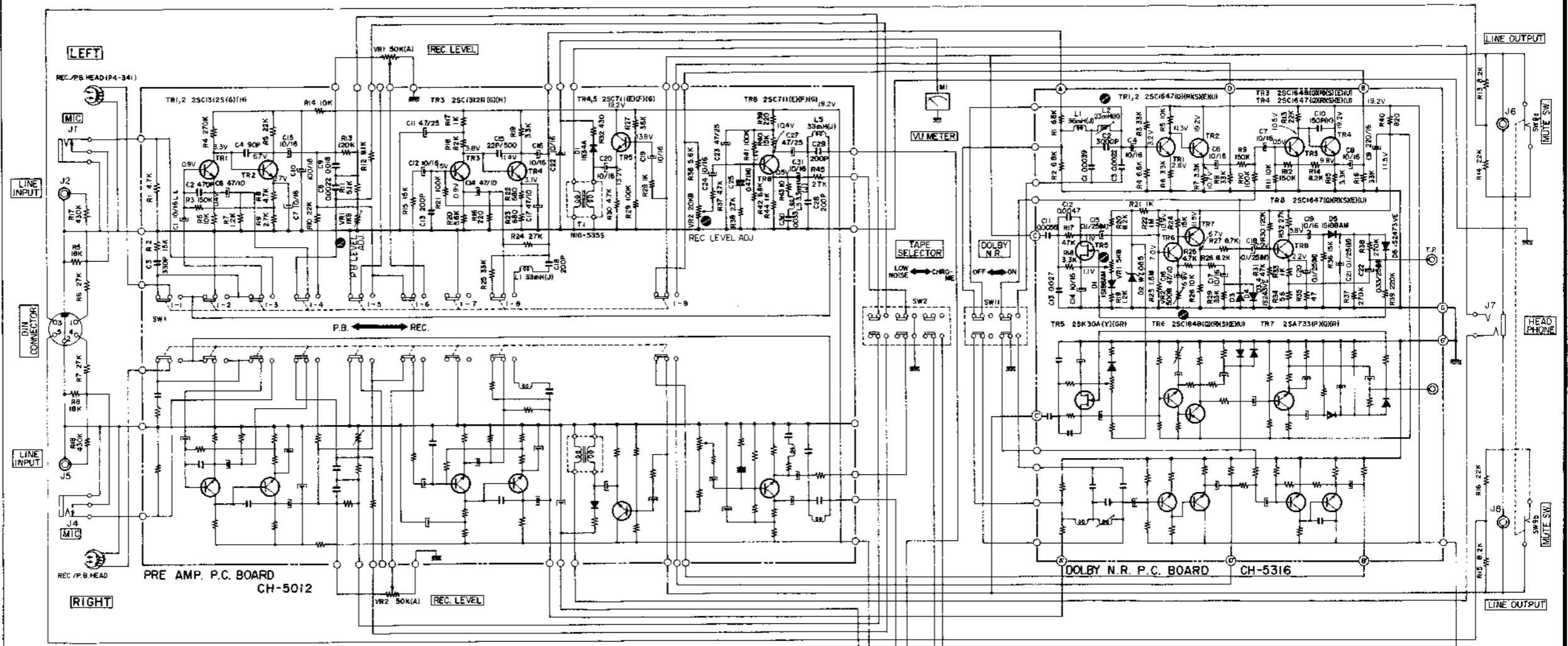




NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN Ω (1/4W/1)
 ALL CAPACITORS IN μF (50V/1)

GXC-510D, GXC-505D
 SCHEMATIC DIAGRAM
 NO. 2-2 1482042A
 2C

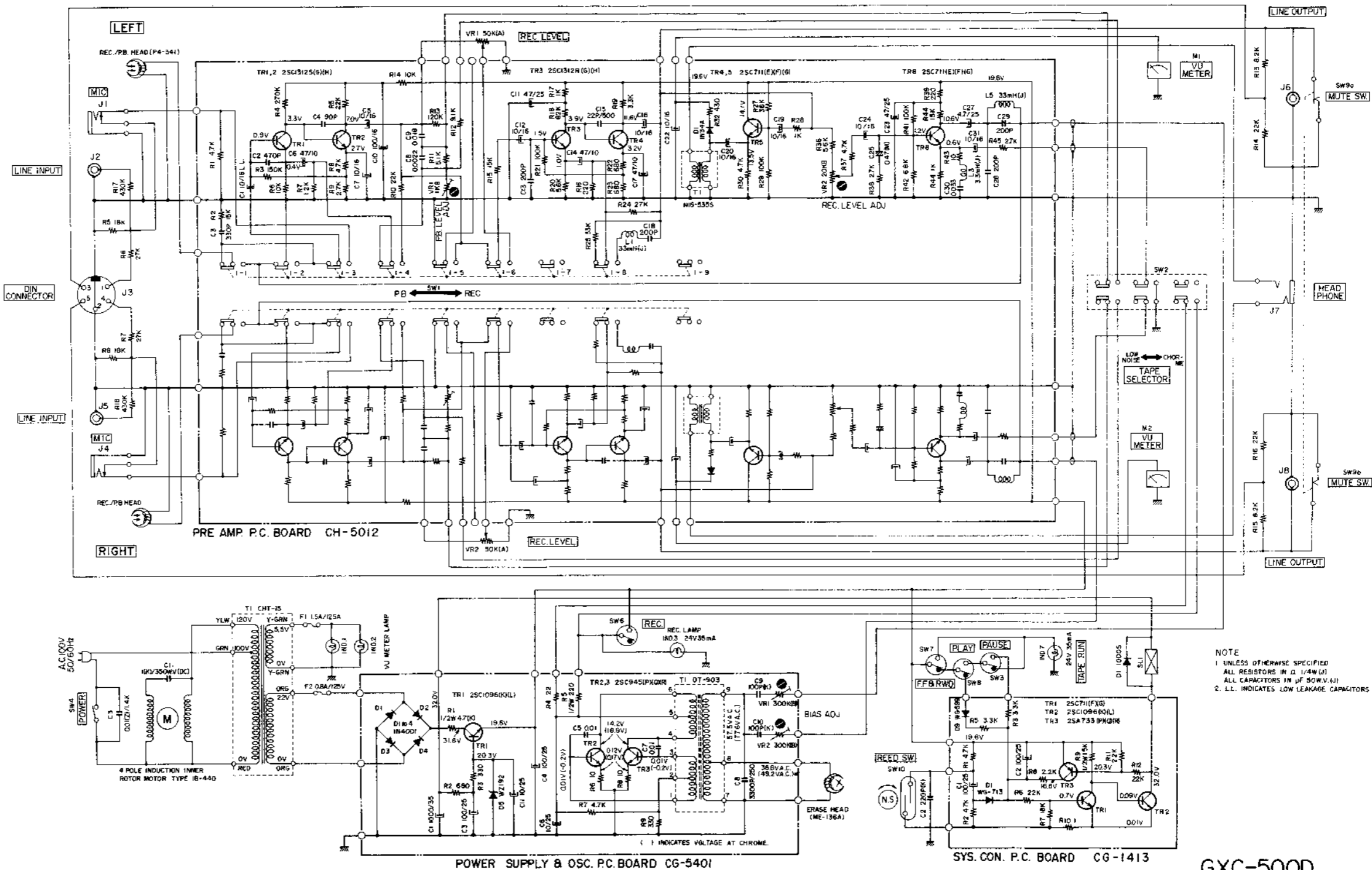
GXC-502D



NOTE
 1. UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN Ω / $1/4W$ / $1/2W$
 ALL CAPACITORS IN μF / $50V$ / $10V$
 2. L.L. INDICATES LOW LEAKAGE CAPACITORS.

GXC-502D
 SCHEMATIC DIAGRAM
 NO. 1482450A

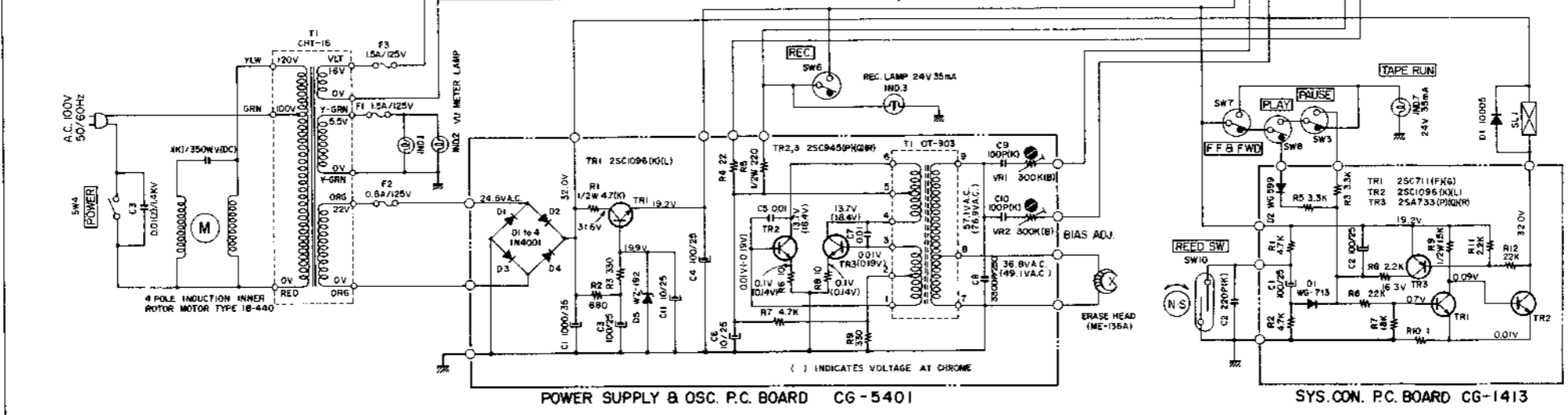
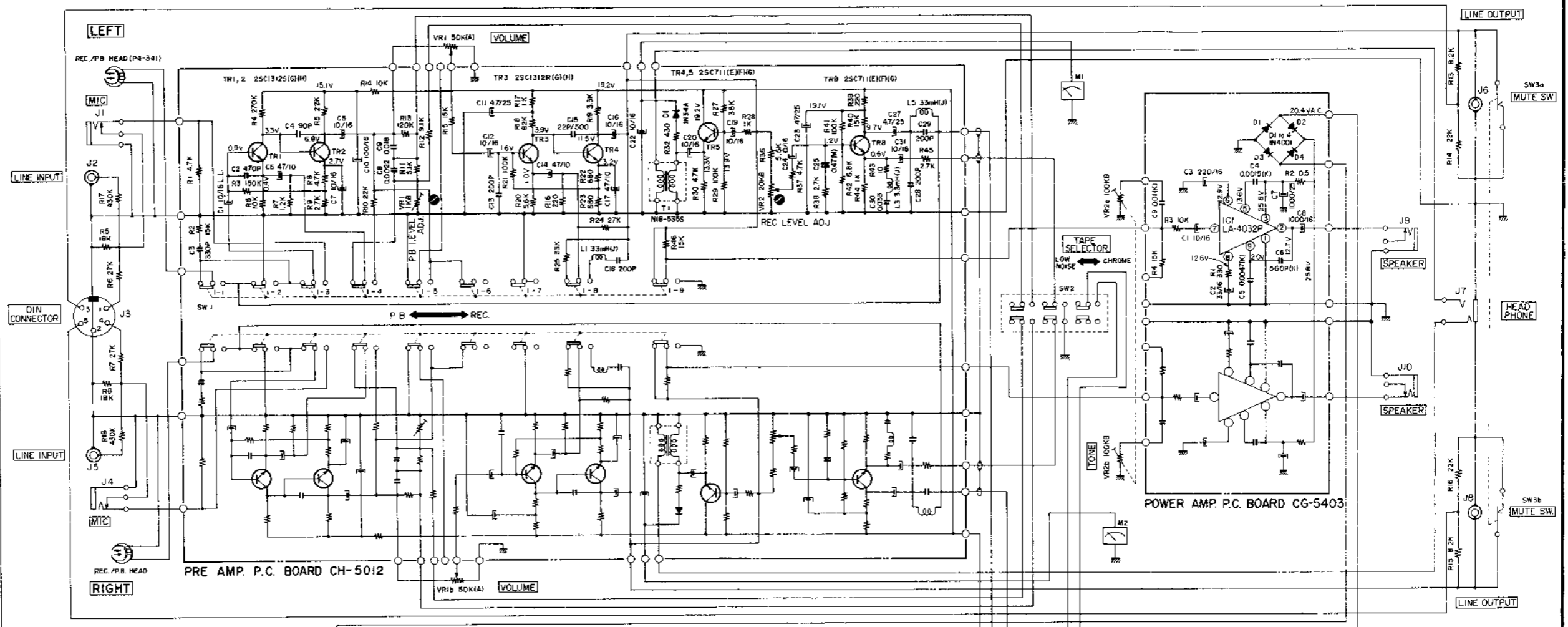
GXC-500D



NOTE
 1 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN Ω 1/4W (J)
 ALL CAPACITORS IN μF 50WV (J)
 2. L.L. INDICATES LOW LEAKAGE CAPACITORS

GXC-500D
 SCHEMATIC DIAGRAM
 NO. 1482452A

GXC-500



NOTE
 1. UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN Ω 1/4W (J)
 ALL CAPACITORS IN μF 50WV (J)
 2. L.L. INDICATES LOW LEAKAGE CAPACITORS

GXC-500
 SCHEMATIC DIAGRAM
 NO. 1482453A