

SERVICE MANUAL

PARTS LIST

MODEL GXC-740D

AKAI

GXC-740D



STEREO CASSETTE DECK

MODEL **GXC-740D**

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SECTION 1

SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL OPERATING PRINCIPLES AND ADJUSTMENTS.

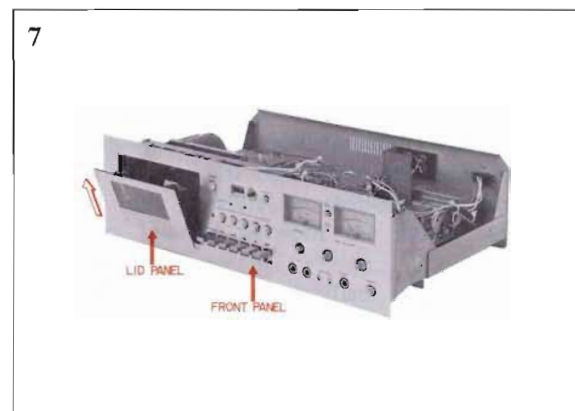
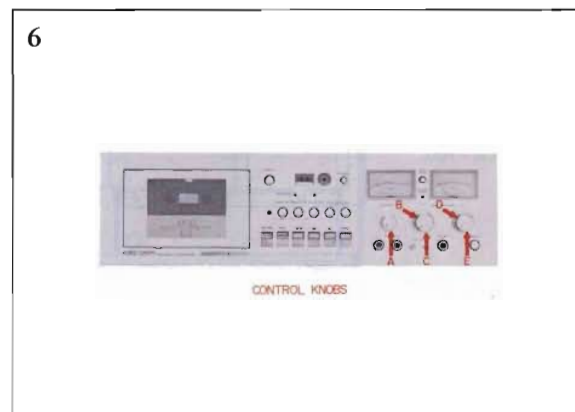
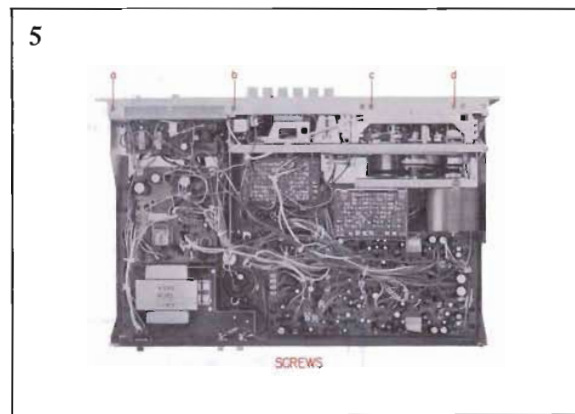
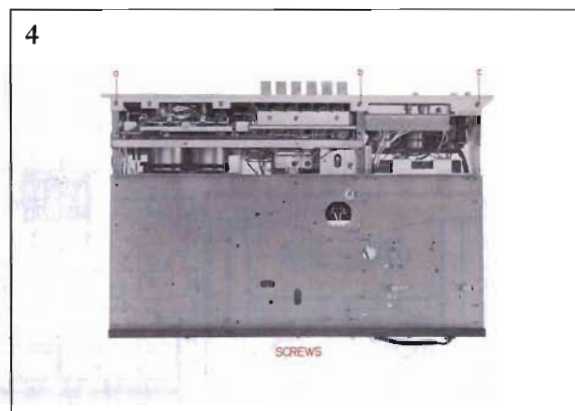
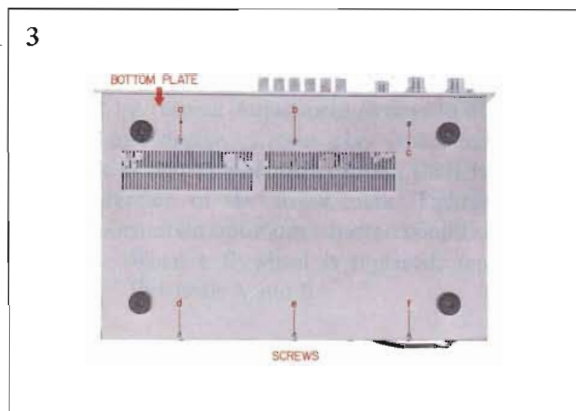
I. TECHNICAL DATA

TRACK SYSTEM	4 track 2 channel stereo system		
TAPE	Philips type cassette		
TAPE SPEED	1-7/8 ips		
WOW AND FLUTTER	Less than 0.07% WRMS		
FREQUENCY RESPONSE	30 Hz to 15,000 Hz (±3 dB) using low noise tape 30 Hz to 16,000 Hz (±3 dB) using CrO ₂ tape 30 Hz to 18,000 Hz (±3 dB) using Fe-Cr tape		
DISTORTION	Less than 1% (1,000 Hz "0" VU)		
SIGNAL-TO-NOISE RATIO	Better than 50 dB (measured via tape with peak recording level of +5 VU) Dolby Switch ON: Improves up to 10 dB above 5 kHz		
ERASE RATIO	Better than 70 dB		
BIAS FREQUENCY	100 kHz		
HEADS	GX recording/playback head and erase head (3 head system)		
MOTOR	AC Servo outer rotor motor		
FAST FORWARD AND REWIND TIME	70 seconds using a C-60 cassette tape		
OUTPUT JACKS	Line (2): 0.775V ("0" VU) Required load impedance: More than 20 k ohms Phone (1): 50 mV/8 ohms		
INPUT JACKS	Microphone (2): 0.3 mV/4.7 k ohms Line (2): 70 mV/100 k ohms		
TRANSISTOR	2SA733 (P) (Q) 1	2SC1175 (E) (F) 2	
	2SC458LG (C) 8	2SC1222 (E) (F) 4	
	2SC945L (P) (Q) (R) 18	2SC1247 (A) (B) (V) 1	
	2SC1061 (B) (C) 1	2SC1647 (S) (E) 6	
	2SC1096 (K) (L) 1	2SC1683 (P) (Q) 1	
FET	2SK30A (D) 4	2SK68K (L) (M) 2	
IC	TA7122AP 2	μPC1023H 2	μPC1024H 4
DIODE	1N34A 10	10D4 5	
	1S2473 4	SEL105R 1	
	1S2473VE 25	SEL305GC 2	
	10D05 5	WZ085 2	
	10D2 4	WZ240 1	
POWER REQUIREMENTS	CSA, UL and LA Models: 120V, 60 Hz only CEE Models: 220V, 50 Hz only Other Models: 110 to 120V/220 to 240V, 50/60 Hz (switchable)		
DIMENSIONS	440(W) × 142(H) × 306(D) mm (17.3 × 5.6 × 12.0")		
WEIGHT	10.5 kg (23.1 lbs)		

- NOTES: 1. For improvement purposes, specifications and design are subject to change without notice.
2. "DOLBY" and the Double D symbol are trademarks of Dolby Laboratories, Inc.
(Under License from Dolby Laboratories, Inc.)

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassembly in reverse order.



III. PRINCIPAL PARTS LOCATION

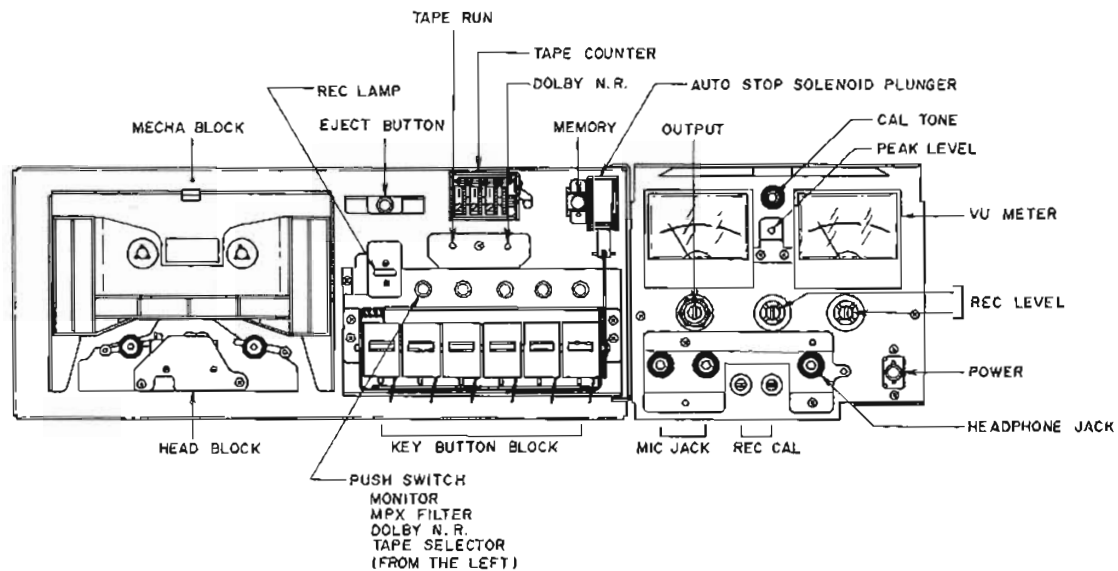


Fig. 1 Front View

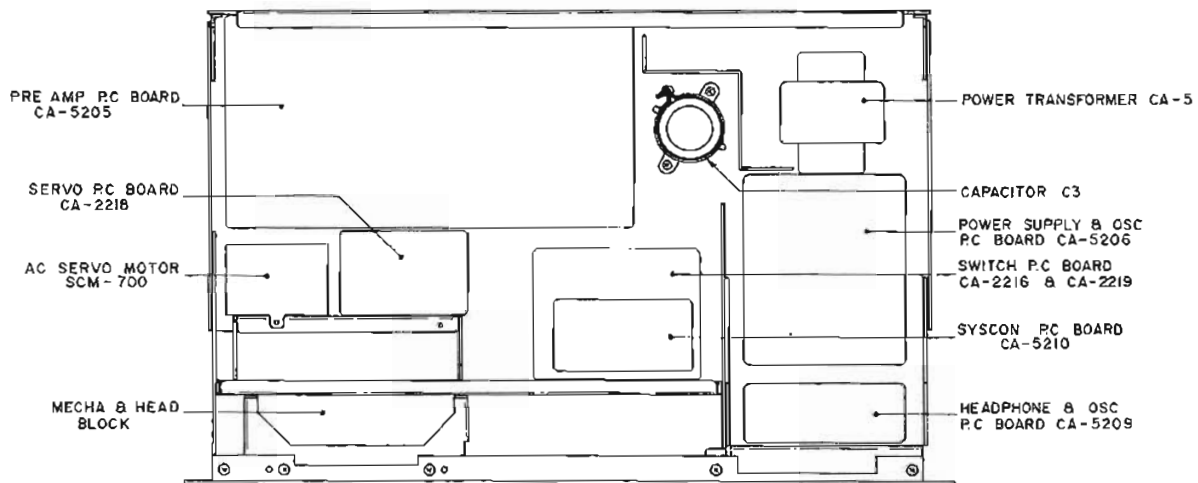


Fig. 2 Top View

IV. MECHANISM ADJUSTMENT

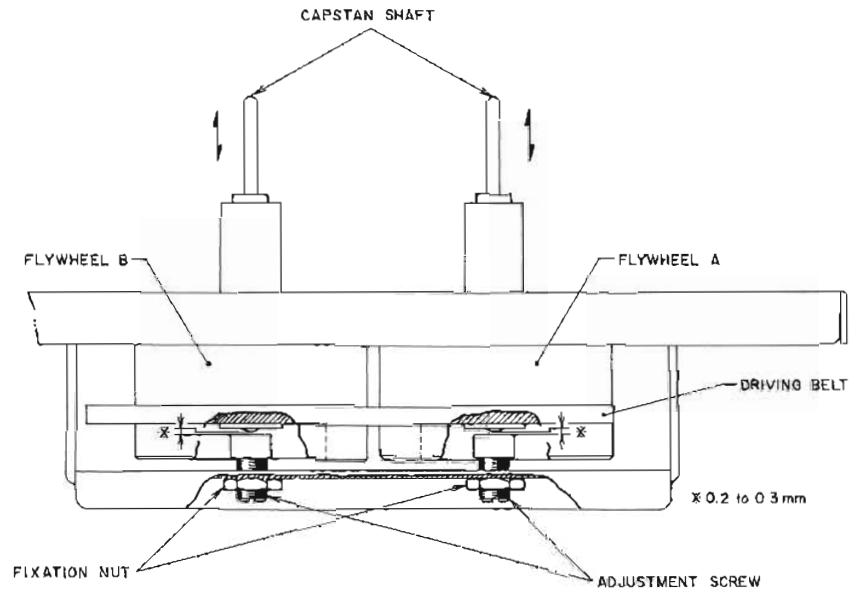


Fig. 3

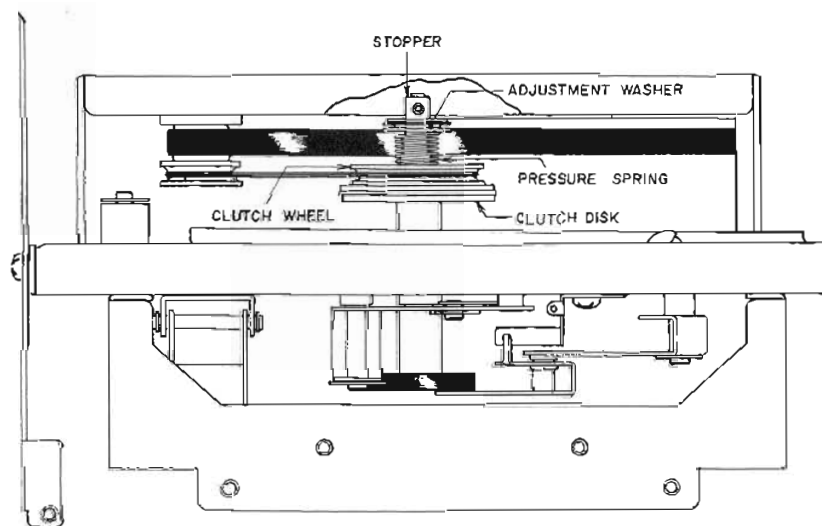


Fig. 4

1. CAPSTAN SHAFT LOOSE PLAY

ADJUSTMENT (See Fig. 3)

Adjust by turning Adjustment Screws to obtain a 0.2 to 0.3 mm degree of loose play (space indicated by * mark in figure) when the capstan shaft is moved in the direction of the arrow mark. Tighten fixation nuts to maintain optimum adjusted condition.

NOTE: When a flywheel is replaced, replace both flywheels A and B.

2. FAST FORWARD AND REWIND TORQUE

ADJUSTMENT (See Fig. 4)

Use a cassette torque meter and measure torque at Fast Forward and Rewind modes. Proper torque is about 90 gr-cm. If not within specification, adjust Clutch disc pressure by changing the number of washers inserted between the clutch wheel and stopper.

- NOTES:
1. In case specified torque cannot be attained by changing the number of washers, replace Clutch disc assembly.
 2. In case of replacement of Clutch disc only, be sure to adjust torque only after aging (after the new clutch disc has been used for awhile).

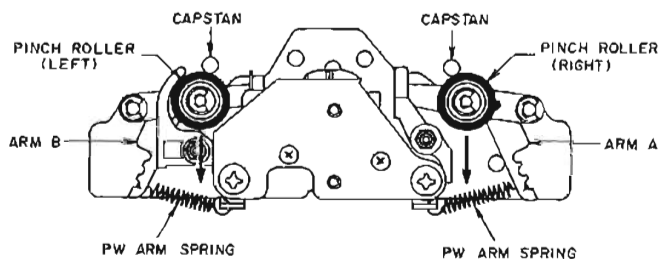


Fig. 5

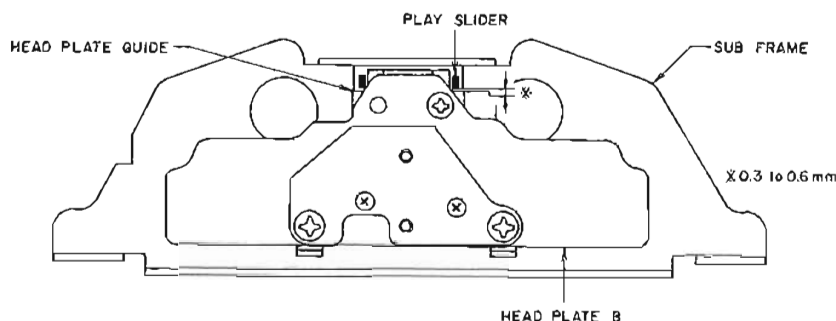


Fig. 6

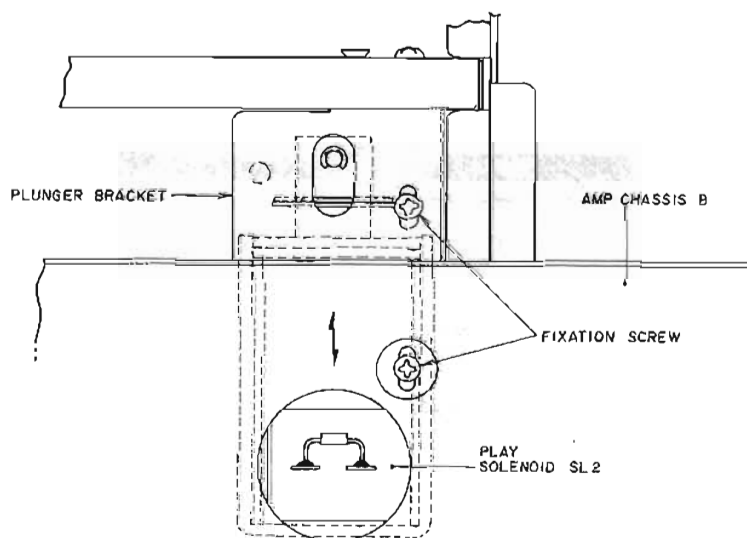


Fig. 7

3. TAKE-UP AND SUPPLY REEL TABLE TORQUE MEASUREMENT AT PLAYBACK MODE

Measure take-up and supply reel table torque in same way as described in Item-2 above.

Specified torque: Take-up reel table; 40 gr-cm

Supply reel table; 7 to 15 gr-cm

NOTE: If torque of each reel table is not within specification, replace reel table assembly.

4. PINCH ROLLER PRESSURE

ADJUSTMENT (See Fig. 5)

Pull back the Pinch Roller with a spring gauge, and then return. Take a reading of the spring gauge scale indication at the moment the Pinch Roller touches the capstan and begins to rotate. Adjust Pressure to specified value by changing position of the PW ARM SPRING.

Specified Pinch Roller Pressure:

Pinch Roller (right)	400 $\pm$ 50 gr
Pinch Roller (left)	300 $\pm$ 50 gr

5. PLAY SOLENOID INSTALLATION POSITION ADJUSTMENT

(See Fig. 6 and Fig. 7)

At play mode, move solenoid (SL2) shown in Fig. 7 in the direction of the arrow mark to obtain a 0.3 to 0.6 mm gap between the play slider and head plate guide as shown in Fig. 6. Tighten fixation screw to maintain this condition.

NOTE: If the clearance between the play slider and head plate guide is over 0.6 mm, because the solenoid will not pull the plunger properly, be sure to adjust to within specifications.

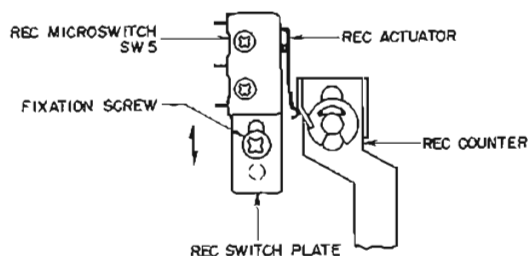


Fig. 8

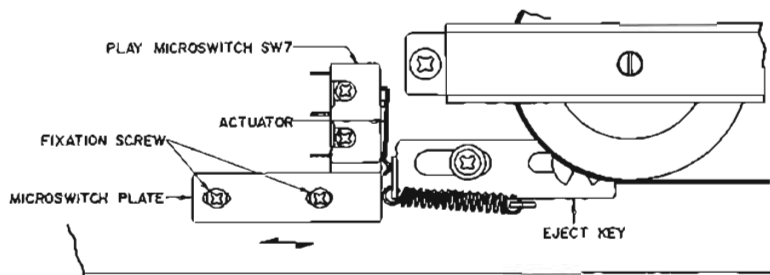


Fig. 9

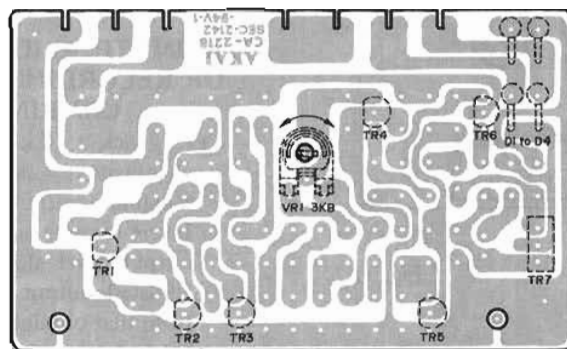


Fig. 10 Servo P.C Board

6. POSITION ADJUSTMENT OF RECORDING MICROSWITCH (See Fig. 8)

At recording mode, adjust by moving the recording switch plate shown in Fig. 8 as indicated by the arrow mark in the figure so that recording micro switch (SW5) is perfectly turned ON. Tighten fixation screw to maintain this condition.

7. POSITION ADJUSTMENT OF PLAY MICROSWITCH (See Fig. 9)

At playback mode, adjust by moving the microswitch plate shown in Fig. 9, as indicated by the arrow mark in the figure so that play microswitch (SW7) is perfectly turned ON. Tighten fixation screw to maintain this condition.

8. TAPE SPEED ADJUSTMENT (See Fig. 10)

Playback a 1,000 Hz pre-recorded test tape and adjust Servo P.C Board (CA-2218) semi-fixed resistor VR1 (3 k Ω) shown in Fig. 10 to obtain a tape speed of 1,000 Hz $\pm$ 0.5%.

V. HEAD ADJUSTMENT

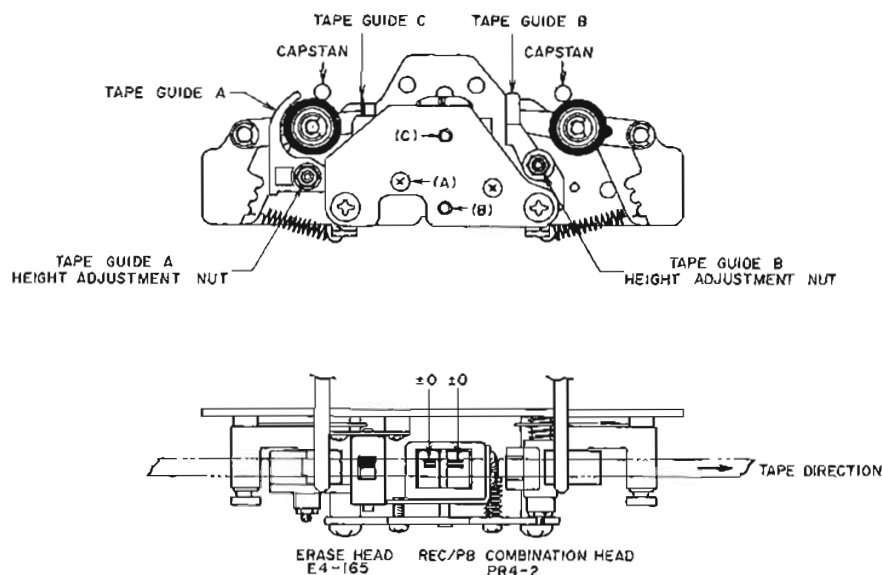


Fig. 11

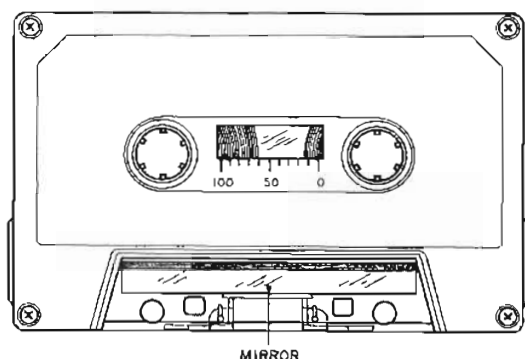


Fig. 12

1. TAPE GUIDE HEIGHT ADJUSTMENT

(See Fig. 11 and Fig. 12)

- 1) When using an ordinary cassette, the tape guides and heads, etc. are not visible. As shown in Fig. 12, use a cassette tape from which part of the cassette case has been cut out and a mirror installed for easy visibility of the head area when making tape guide height adjustment.
- 2) At playback mode, using erase head tape guide shown in Fig. 11 as standard for height, adjust tape guide A and tape guide B height with tape guide height adjustment nut so that the tape runs smoothly and does not catch on the tape guides.

2. HEIGHT ADJUSTMENT OF RECORDING/PLAYBACK COMBINATION HEAD

(See Fig. 11)

- 1) Utilize the cassette tape used in tape guide height adjustment above and playback the leader tape part of cassette tape.

- 2) As shown in Fig. 11, adjust head height with screws (A) (B) and (C) until the upper edge of the tape is the same height as the upper edge of the left channel REC/PB Comb. Head core.

3. AZIMUTH ALIGNMENT ADJUSTMENT OF RECORDING/PLAYBACK COMBINATION HEAD (See Fig. 11)

- 1) Playback a 10 kHz pre-recorded cassette azimuth alignment test tape and adjust screw (A) to obtain maximum output on both channels.
- 2) Invert cassette and playback. Confirm that the line output level does not change from the above adjusted output level. If the output level differs from that obtained in Item 3-1) above, repeat head height and azimuth alignment until both sides of the test tape display equal output.
- 3) Supply a 10 kHz signal from an audio frequency oscillator to the line inputs and record at -20 VU on a blank tape.
- 4) Set Monitor Switch to TAPE position and adjust screw (A) shown in Fig. 11 to obtain maximum output on both left and right channels.
- 5) The recording and playback heads are joined to form a single structure. Therefore, when making azimuth alignment adjustment, because both head cores move, repeat adjustment 3-1) through 3-4) above until optimum azimuth alignment of the two head cores are obtained.

- NOTES:
1. Be sure to clean the heads prior to head adjustment.
 2. Be careful not to use a magnetized driver or other magnetized tools in the vicinity of the heads.
 3. Be sure to demagnetize the heads with a Head Demagnetizer before and after head adjustment.

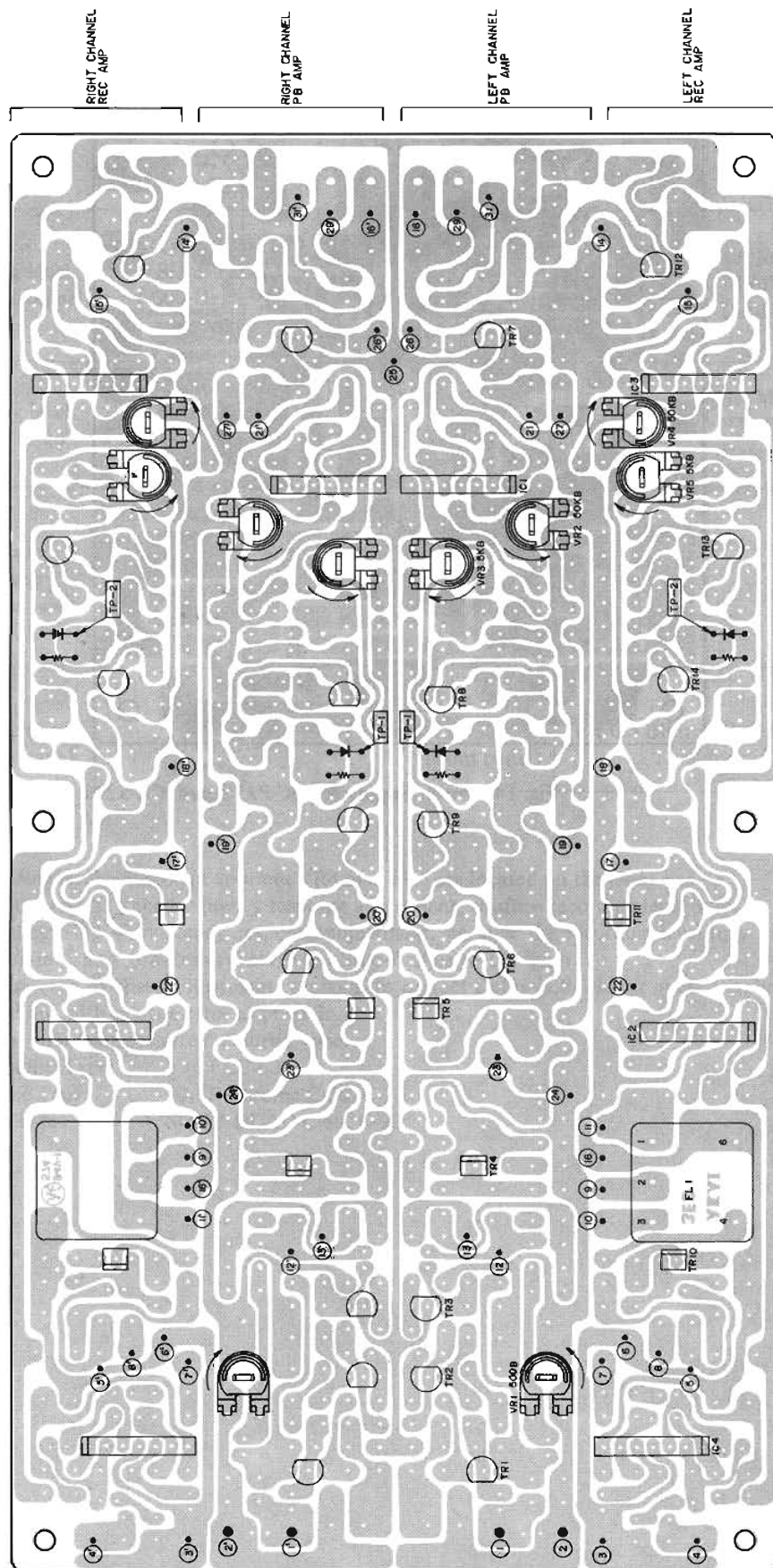


Fig. 13 Pre Amp P.C Board CA-5205

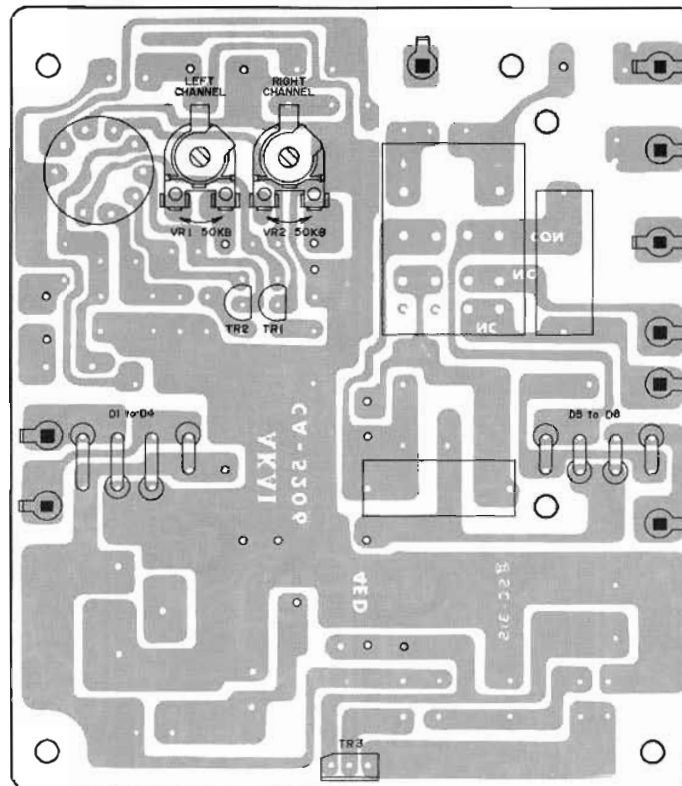


Fig. 14 Power Supply & OSC P.C Board CA-5206

VI. AMPLIFIER ADJUSTMENT

1. RECORDING/PLAYBACK AMPLIFIER (See Fig. 13, Fig. 14 and Chart-1)

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Point	Result	Remarks
1	Playback level	333 Hz, 0 VU Test Tape	PLAY	VR1, 500B (CA-5205)	0 ± 0.5 dBm	
2	Recording level (low noise tape)	Low Noise Blank Tape 1,000 Hz, 0 VU recording	REC	VR4, 5 kB (Left channel) VR5, 5 kB (Right channel) (Front panel)	0 ± 0.5 dBm	Set Monitor Switch to "TAPE". Refer to Note 1.
3	Recording level (chrome tape)	Chromium dioxide Blank Tape 1,000 Hz, 0 VU recording	REC	None	0 ± 3.5 dBm	Set Monitor Switch to "TAPE". Refer to Note 2.
4	Frequency Response (low noise tape)	Low Noise Blank Tape 1,000 Hz 10,000-Hz -20 VU recording	REC	VR1, 50 kB (Left channel) VR2, 50 kB (Right channel) (CA-5206)	Flat Frequency Response from 1,000 Hz to 10,000 Hz	
5	Recording level Confirmation (low noise tape)	Low Noise Blank Tape 1,000 Hz, 0 VU recording	REC	VR4, 5 kB VR5, 5 kB (Front panel)	0 ± 0.5 dBm	Refer to Note 3.

Chart-1

- NOTES:
1. Recording level adjustment volumes VR4 and VR5 are located on the front panel.
 2. After Low Noise Tape frequency response adjustment, confirm recording level only.
 3. Following Step 4 frequency response adjustment, because the recording level may be slightly changed, confirm level and, if necessary, carry out Step-2 adjustments again.
 4. Because each of these adjustments are vital to perfect Dolby N.R. circuit operation, be sure that they are carried out with as little error as possible.
 5. Use the following cassette measuring tape:
 Low Noise Tape: Fuji FLC-60
 Chrome Tape: BASF Chrome C-60, C-90
 Fe-Cr Tape: SONY DUAD C-60, C-90

2. DOLBY NOISE REDUCTION CIRCUIT

ADJUSTMENT (See Fig. 13)

- NOTES:
1. Because the establishment of the 5 kHz adjustment signal and level, etc. is vital to correct Dolby Noise Reduction circuit adjustment, use only calibrated measuring instruments.
 2. Level deviation must be within ± 0.5 dB.
 3. After Dolby Noise Reduction circuit adjustments have been made, do not change recording or playback levels.

1) Recording Dolby Noise Reduction Amplifier

Adjustment (See Fig. 13)

- a. Set Monitor Switch to SOURCE, and Tape Selector Switch to LOW NOISE.
- b. Ground Test Point TP2 and turn adjustment semi-fixed resistors VR4 (50 k Ω) and VR5 (5 k Ω) as far as they will go in the direction of the arrow mark.
- c. With Recording Level Control set to 12 o'clock position, supply a 5 kHz signal to the line input and obtain a -28.5 dBm line output level.
- d. Connect a Voltmeter to the center terminal of front panel REC CAL Volume VR4 (left channel) and VR5 (right channel), and adjust REC CAL Volumes to obtain a -30 dBm AC Voltmeter indication.
- e. With the Dolby Noise Reduction Switch at ON, adjust semi-fixed resistor VR4 (50 k Ω) shown in Fig. 13 to obtain a -20 dBm level at center terminal of REC CAL Volume.
- f. Disconnect Test Point TP2 from ground and adjust semi-fixed resistor VR5 (5 k Ω) shown in Fig. 13 to obtain a -22 dBm level at center terminal of REC CAL volume.

2) Playback Dolby Noise Reduction Amplifier

Adjustment (See Fig. 13)

- a. Set Monitor Switch to TAPE and Tape Selector Switch to LOW NOISE.
- b. Ground Test Point TP1 and turn adjustment semi-fixed resistors VR2 (50 k Ω), and VR3 (5 k Ω) as far as they will go in the direction of the arrow mark.
- c. Set deck to playback mode.
- d. Supply a 5 kHz signal to terminal (13) shown in Fig. 11 and obtain a -20 dBm line output level.
- e. Set the Dolby Noise Reduction Switch to ON and adjust semi-fixed resistor VR3 (5 k Ω) to obtain a -30.5 dB line output level.
- f. Disconnect Test Point TP1 from ground and adjust semi-fixed resistor VR3 (5 k Ω) to obtain a -28.5 dBm line output level.

VII. DC RESISTANCE OF VARIOUS COILS

Part	Designation	DC Resistance
Main Motor	SCM-700	Between YLW-BLU : 210 ohms Between YLW-RED : 197 ohms Between RED-BLU : 190 ohms Pick-up coil : 670 ohms
Play Solenoid	1660PHT3	700 ohms $\pm 10\%$
Auto Stop Solenoid	0730THT1	15 ohms $\pm 10\%$
Relay	LC2-2	640 ohms $\pm 10\%$
Headphone Transformer	N19-349S	Primary : 160 ohms $\pm 15\%$ Secondary : 0.64 ohms $\pm 15\%$
Oscillator Coil	OT-925	Between 1-3 : 0.3 ohms Between 4-6 : 1.5 ohms Between 7-9 : 6.1 ohms
Recording/Playback Combination Head	PR4-2	REC : 22 ohms $\pm 5\%$ PB : 250 ohms $\pm 5\%$
Erase Head	E4-165	2.5 ohms

Chart-2

VIII. CLASSIFICATION OF VARIOUS P.C BOARDS

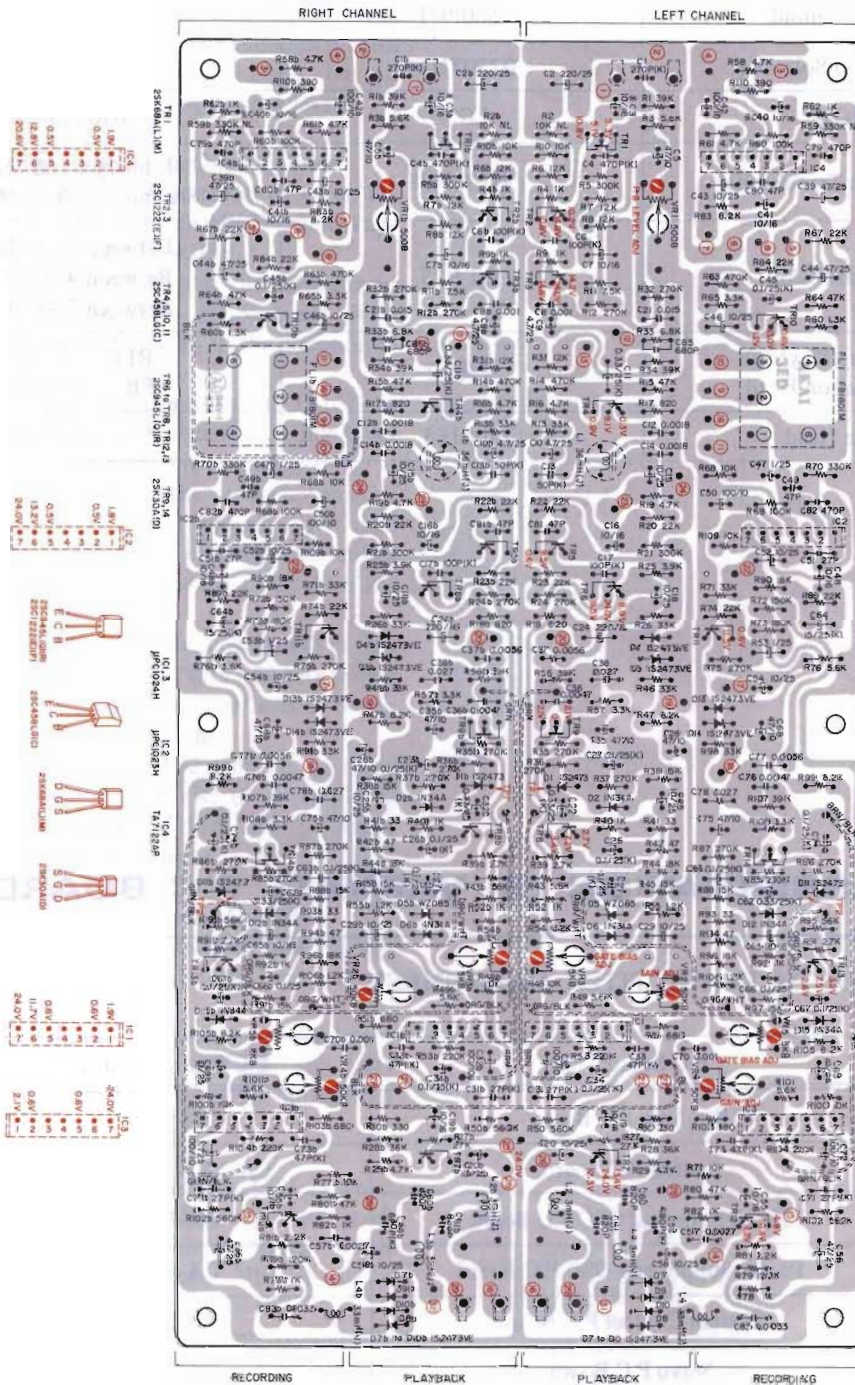
1. RELATION OF P.C BOARD TITLE AND NUMBER

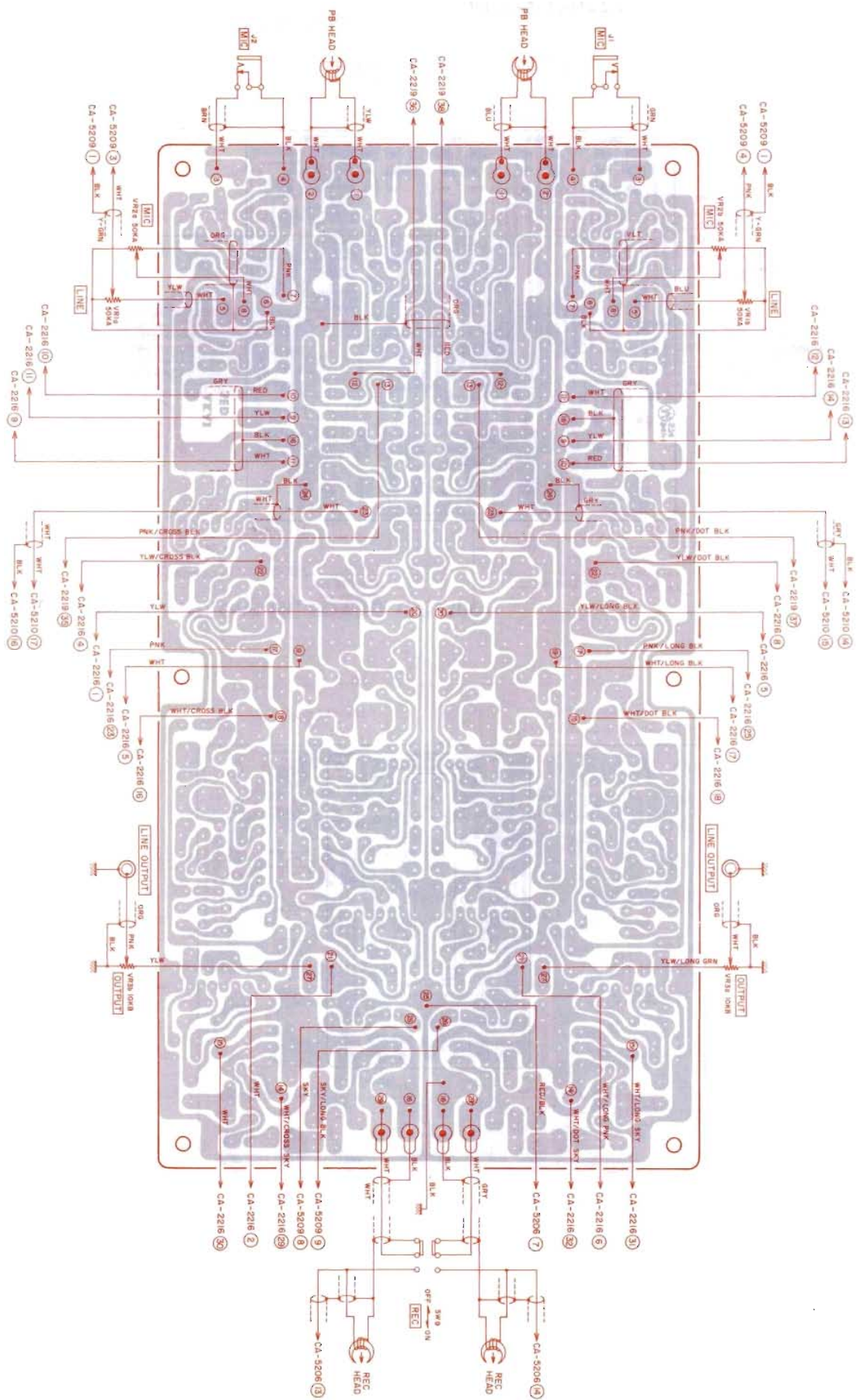
P.C Board Title	P.C Board Number
Pre Amp P.C Board	CA-5205
Switch P.C Board	CA-2216, CA-2219
Headphone and OSC P.C Board	CA-5209
Power Supply and OSC P.C Board	CA-5206
System Control P.C Board	CA-5210
Servo P.C Board	CA-2218

Chart-3

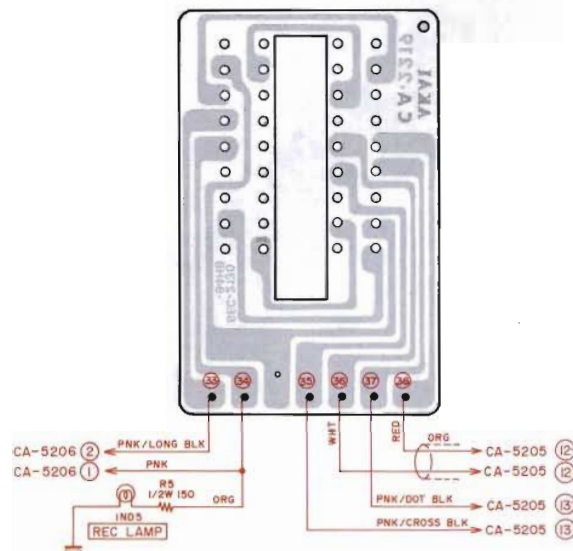
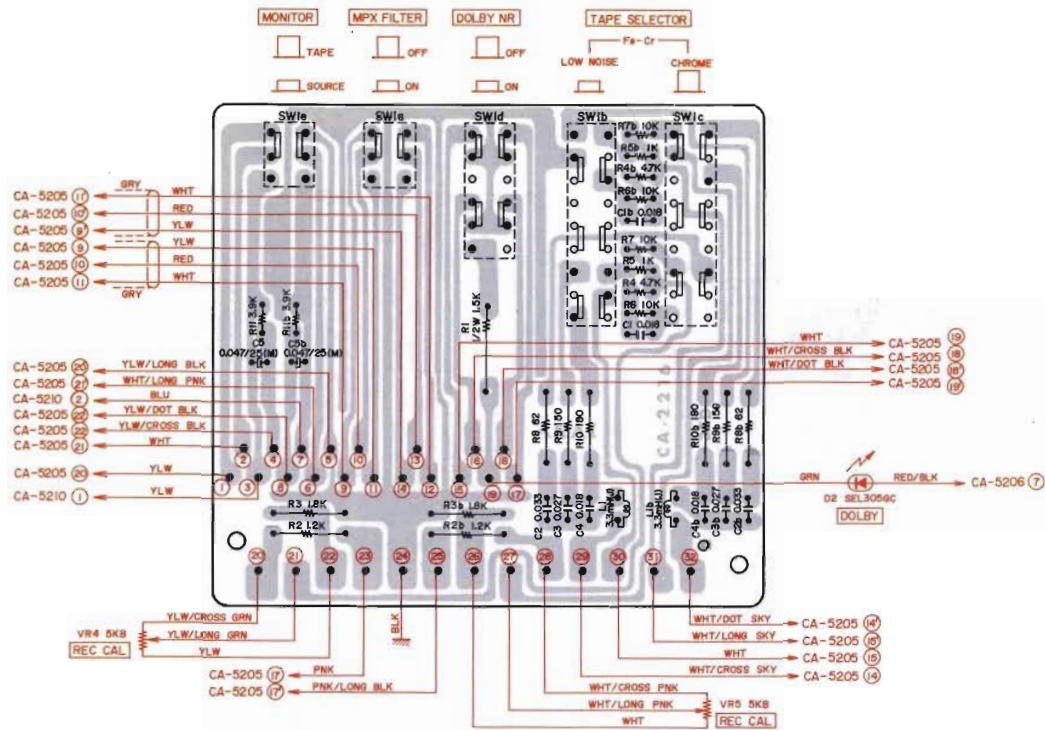
2. COMPOSITION OF VARIOUS P.C BOARDS

1) PRE AMP P.C BOARD CA-5205

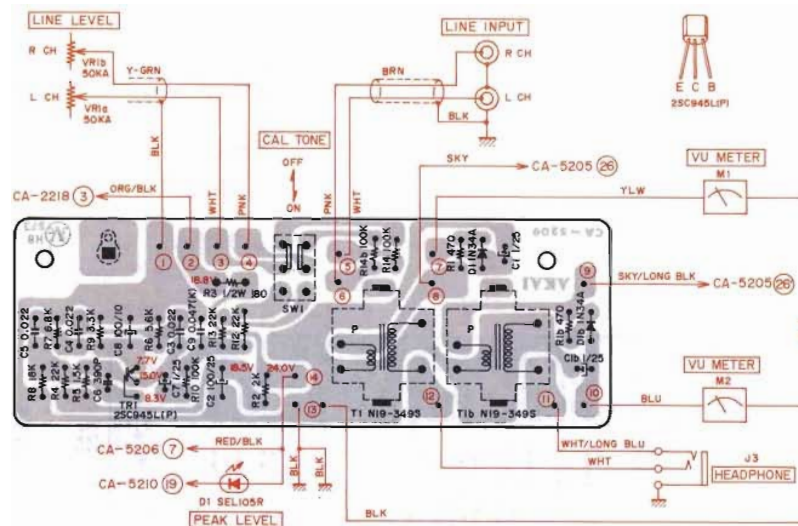




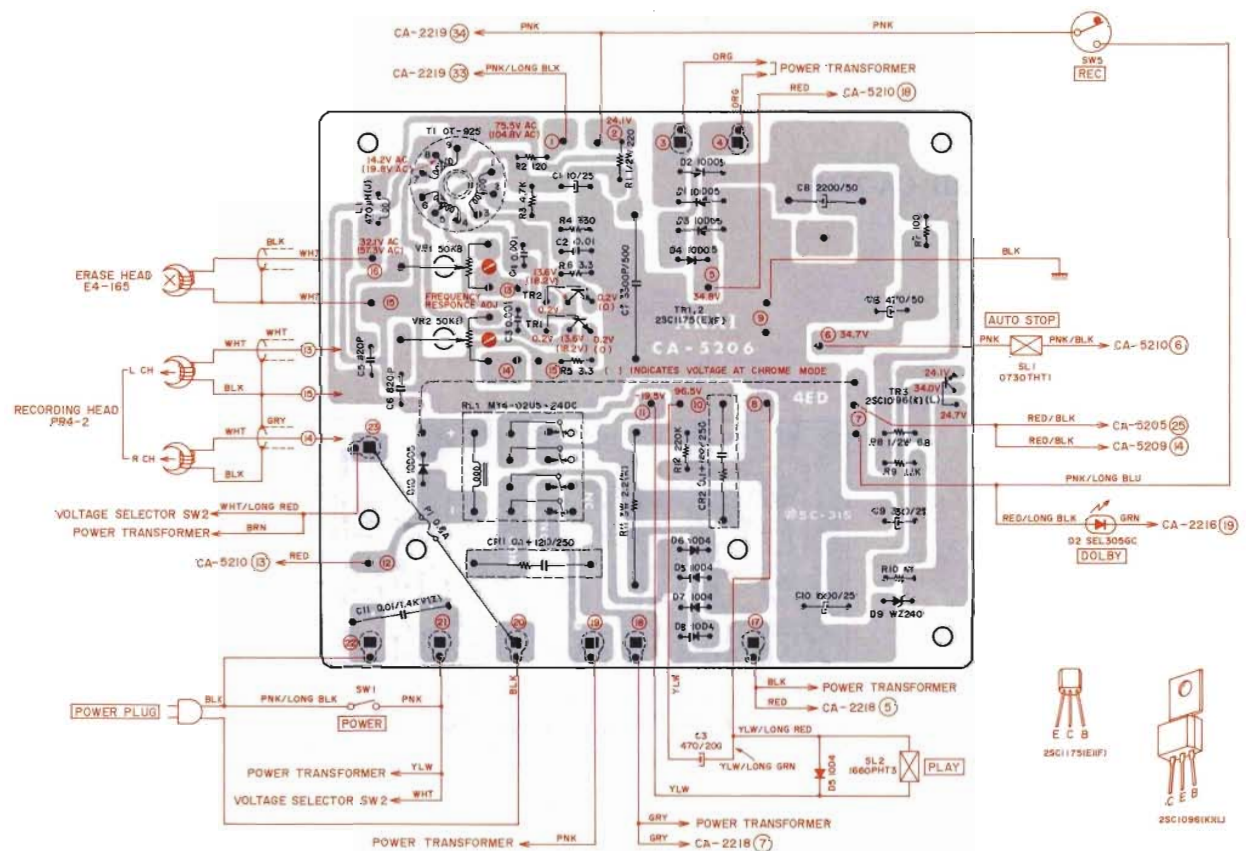
2) SWITCH P.C BOARD CA-2216, CA-2219



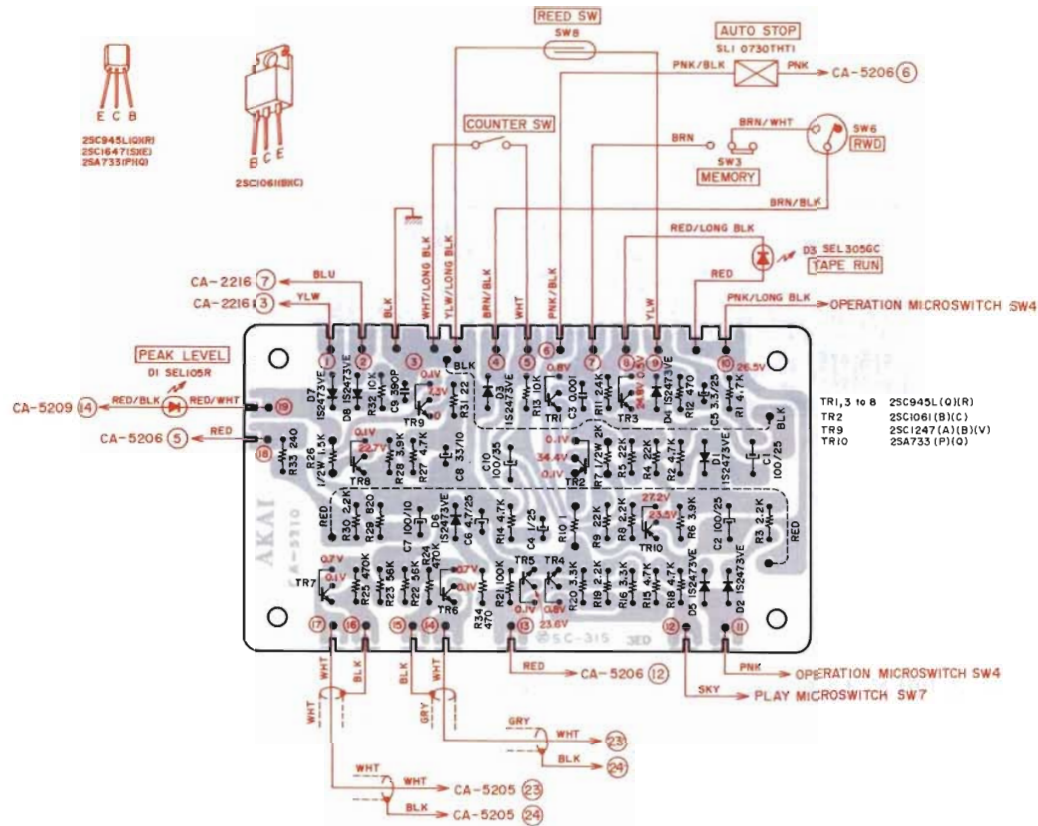
3) HEADPHONE P.C BOARD CA-5209



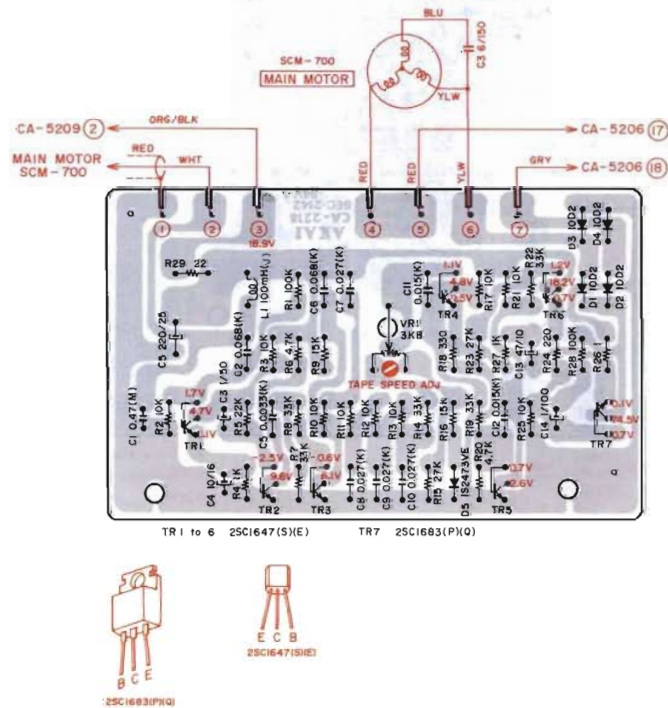
4) POWER SUPPLY AND OSC P.C BOARD CA-5206



5) SYSTEM CONTROL P.C BOARD CA-5210



6) SERVO P.C BOARD CA-2218



MEMO

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1

SECTION 2

PARTS LIST

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Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

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

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.

This number corresponds with the individual parts index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

Schematic Diagram Number of individual manufactured part.
(not required for parts order)

Quantity of particular part required.

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

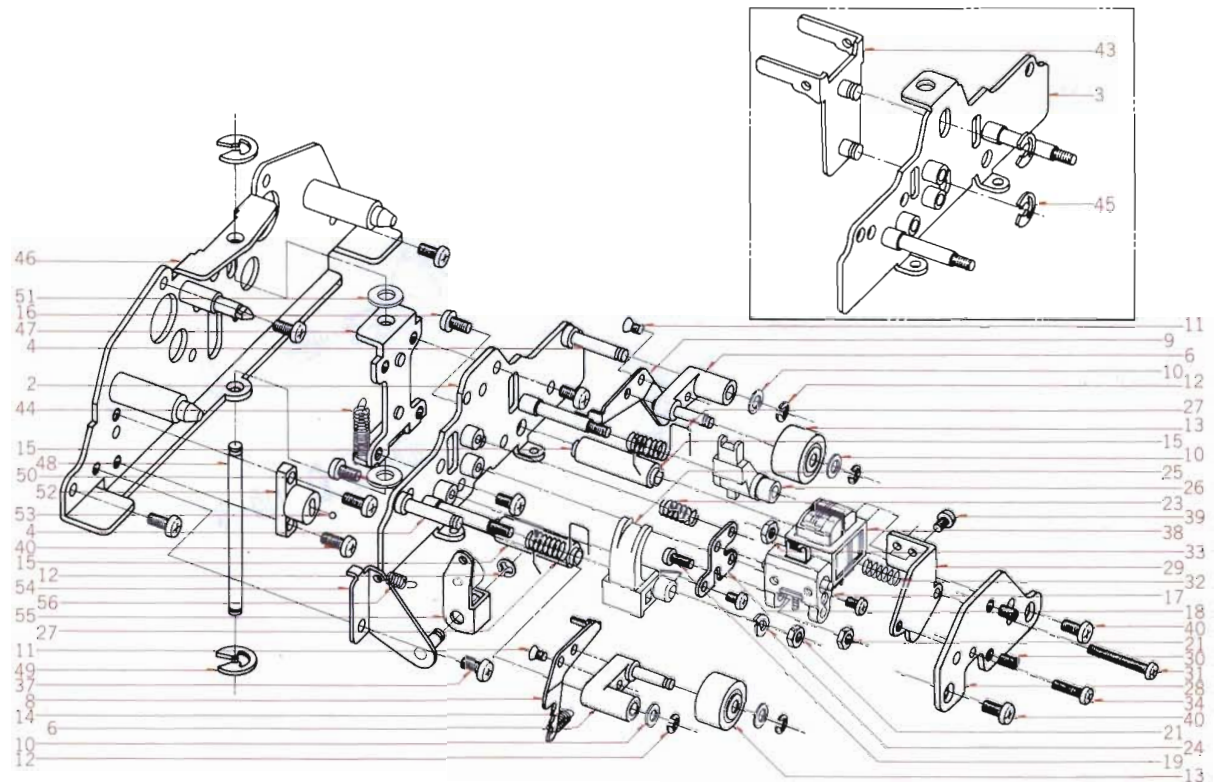
4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of Components of the Schematic Diagram or Service Manual.
5. Please utilize separate "Common List for Service Parts" for Resistor Parts orders.
6. The shape of the parts and parts name, etc. can be confirmed by 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.

RECOMMENDED SPARE PARTS LIST

Parts No.	Description	Note
BA235607	Servo P.C Board Comp. CA-2218	
BA661195	Headphone & OSC P.C Board Comp. CA-5209	
BA661217	Pre Amp P.C Board Comp. CA-5205	
BA661296	Sys. Con P.C Board Comp. CA-5210	
BA661307	SW. P.C Board Comp. CA-2216, CA-2219	
BA661206	Power Supply & OSC P.C Board Comp. CA-5206	
BA671106	Power Supply & OSC P.C Board Comp. CA-5206	CEE
BA671117	Power Supply & OSC P.C Board Comp. CA-5206	CSA
BA671128	Power Supply & OSC P.C Board Comp. CA-5206	JPN
BC647076	Cabinet CA-6008	
BD661151	Front Panel Block Comp.	
BD681491	Lid Panel Block Comp.	Same as GXC-760D
BK650070	Keyboard	Same as GXC-710D
BM670151	Motor (SCM-700) Block Comp.	
BR637716	Take-up Reel Table Block Comp.	Same as GXC-710D
BR670926	Supply Reel Table Block Comp.	
BT669846	Power Trans. CA-5	
BT675573	Power Trans. CA-8	CEE
BT675538	Power Trans. CA-7	CSA
BT675540	Power Trans. CA-6	JPN
ED491130	Zener Diode WZ-085	
ED511918	Zener Diode WZ-240	
ED656346	Luminous Diode SEL-305GC	
ED656357	Luminous Diode SEL-150R	
EI657000	IC TA7129P	
EI669655	IC μ PC1024H	
EI669666	IC μ PC1023H	
EI669712	IC TA7122AP	
EJ645827	3-throw Jack B	
EJ669745	4P Jack Plate	
EL295312	Lamp (L/T) 8V 0.2A	
EL390576	Lamp (L/T) 24V 50 MA	
EM619705	VU Meter D18A66R	JPN
EM666450	VU Meter D18A68R	U/T, CEE
EO243988	Ferri Inductor FL7H 3.3 MH (J)	
EO308395	Ferri Inductor FL7H 3 MH (J)	
EO368403	Ferri Inductor FL9H 33 MH (J)	
EO496350	Inductor 146LY 36 MH (J)	
EO538391	Ferri Inductor FL11H 100 MH (J)	
EO620482	OSC Coil OT-925 23-4-31	
EO679713	OSC Coil OT-925 23-4-36	Interchangeable with 23-4-31
EO669734	MPX Filter FB1801M	
EO682367	Ferri Inductor FS1215S-471JR20	
EP494425	Plunger Solenoid 0730THT-1	
EP638706	Plunger Solenoid 1660PHT-3	
EP638763	Relay MY4-02-US DC24V	
ES227215	Push SW. SPJ10215	

Parts No.	Description	Note
ES389700	Micro SW. SS-5	
ES469541	Push SW. TV-3 JB52	
ES479485	Slide SW. S-1	
ES494188	Micro SW. SS-5GL-13	
ES499972	Push SW. JS-09	
ES516036	Reed SW. ORD-225	
ES619053	Push SW. SPJ-10114B	
ES664615	Push SW. SPJ-10113	
ES669677	Push SW. 5FT-0004EF2020	
ET375603	Transistor 2SC1061 (B) (C)	
ET453611	Transistor 2SC1096 (L) (K) (Z-Type),	
ET459810	Transistor 2SC1222 (E) (F)	
ET511920	Transistor 2SC1247A (B) (V)	
ET592424	Transistor 2SC1647 (S) (E)	
ET622080	Transistor 2SC1175 (E) (F)	
ET635826	Transistor 2SC1683 (P) (Q)	
ET645917	FET 2SK30A (D)	
ET669633	FET 2SK68A (L) (M)	
EV464207	Semi-fixed/Vol. V8K4-1 5 k Ω	
EV464220	Semi-fixed/Vol. V8K4-1 50 k Ω	
EV523620	Semi-fixed/Vol. V8K4-1 500 Ω	
EV669756	2-axial 2-throw Vol. V24L5DWTN 50 k Ω ×2	
EV669767	Co-axial 2-throw Vol. V24L5GWTN 10 k Ω ×2	
EV669868	Vol. V12M4-1N15FH 5 k Ω	
HE636963	ERASE HEAD E4-165	Same as GXC-760D
HP671174	REC/PB HEAD PR4-2	Same as GXC-760D
MB415743	Counter Belt A D96×1×1 CC-1034	
MB659823	Drive Belt CA-1204	
MB665526	Capstan Belt CA-1211	
MC645985	Counter SMP-390-73	
MP612628	Pinch Roller CW-0010	
MS659902	Tape Guide CA-0207	
MS659913	Tape Guide B CA-0208	
SE613888	Button Escutcheon A CW-6021	
SE631585	Button Escutcheon D CG-6814	
SE659654	VU Escutcheon B CA-6004	
SE659665	Counter Escutcheon B CJ-6007	
SK631304	Push Button Knob I 91-5051	
SK645030	Single Knob B CA-6013	
SK654750	Double Knob (Lower) CA-6202	
SK669960	CAL Knob CA-5202	
SK669971	REC CAL Knob CA-5203	
SK669993	Double Knob (Upper) CA-6201	
SZ639685	Lamp Lens B-1 NE-6005	
SZ645221	Memory Cap CA-6010	
TC494267	Lamp Cover CG-2206	
ZW526577	Collar B, Jack MC-5006	

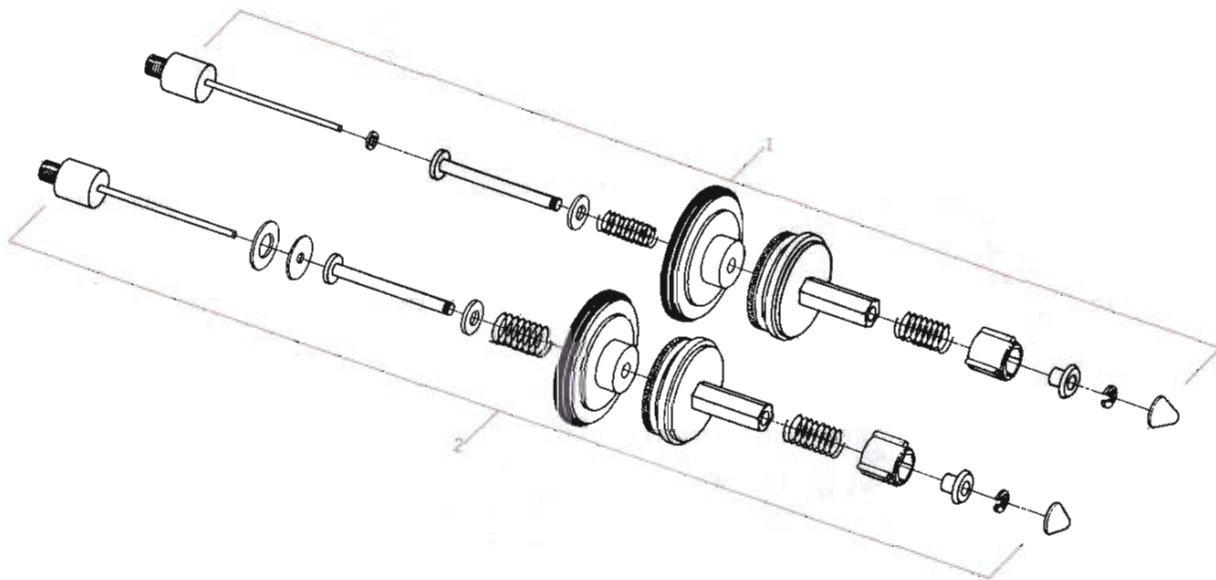
1. ILLUSTRATION OF HEAD BASE/SUB FRAME BLOCK



1) HEAD BASE/SUB FRAME BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
HEAD BASE BLOCK					1-33	ZW556650	Nut M2.3		1
1-1x	BH211105	Head Base Block Comp.	CA2,CB,CI	1	1-34	ZS391522	Screw, pan head 2.3x8		1
1-2	HZ227158	Head Base D (Old)	CA-0018	1	1-35x	ZW562476	Earth Lug M3 (Old)		1
1-3	HZ236834	Head Base F (New)	CA-0020	1	1-36x	ZW273881	Earth Lug M4 (New)		1
1-4	MS227136	PW Arm Shaft B	CA-0017	2	1-37	ZS417216	Screw, pan head 3x4 (Old)		2
1-5x	ZW273756	Nut M3		2	1-38	HP671174	REC/PB HEAD PR4-2	CW1,CA2,CB	1
1-6	TC645063	PW Arm, w/shaft	CA-0004	2	1-39	ZS461395	Screw, round head 2x3		2
1-7x	ZW273745	Spring Washer M3		2	1-40	ZS379350	Screw, pan head 3x6		4
1-8	HZ641621	Arm A	CA-0006	1	1-41x	EA669510	PR4-1 Terminal P.C Board	CW-0045	1
1-9	TC641632	Arm B	CA-0006	1	1-42x	MT553948	Wire Band B	2-35-3	1
1-10	ZW364364	Washer (Polyslider) D3.1x4.8x0.25t		4	1-43	HL260447	Head Base Plunger (B), w/pin (New)	CA-2100	1
1-11	ZS524812	Screw, countersunk head 2x4		2	1-44	ZG659946	Head Table Press Spring (New)	CA-1202	2
1-12	ZW270088	'E' Ring 1.9M	6-1-9	5	1-45x	ZW270101	'E' Ring 3M (New)	6-1-9	2
1-13	MP612628	Pinch Roller	CW-0010	2	SUB FRAME BLOCK				
1-14	ZG644411	PW Arm Spring	CA-0009	2	1-46	TC678622	Sub Frame B, w/pin	CA-2009	1
1-15	HZ644400	Head Hanger Post	CA-0007	2	1-47	HZ642093	Head Base Guide (Old)	CA-2015	1
1-16	ZS379405	Screw, binding head 3x6		2	1-48	MS644872	Guide Shaft	CA-2012	1
1-17	HE636963	ERASE HEAD E4-165	CW,CA2,CB,CI	1	1-49	ZW290283	'U' Ring 2.85M	6-1-1	2
1-18	HZ227103	Erase Head Plate B	CA-0213	1	1-50	ZW394086	Washer (Nylon) D4.1x7x1t		1
1-19	ZS464692	Screw, binding head 2.3x6		1	1-51	ZW259773	Washer (Nylon) D4.1x7x0.5t		1
1-20x	ZS477876	Screw, pan head 2x3		2	1-52	MS645153	Ball Guide	CA-2013	1
1-21	ZW485728	Nut M2.3		3	1-53	MV522235	Steel Ball 3/32 inch		1
1-22x	ZS608106	Screw, pan head 2x6		1	1-54	MZ642104	Arm Shaft Bracket, w/arm shaft	CA-2016	1
1-23	ZG227114	EH Adjust Spring	CA-0214	1	1-55	TC642115	Pressure Roller Arm, w/roller	CA-2018	1
1-24	ZW273666	Spring Washer M2.3		1	1-56	ZG569384	Selector Spring	CP-1166	1
1-25	MS659913	Tape Guide B	CA-0208	1	1-57x	ZW699570	Thrust Washer A	CA-2098	1
1-26	MS659902	Tape Guide	CA-0207	1	1-58x	ZW699581	Thrust Washer B	CA-2098	1
1-27	ZG659880	Tape Guide Spring	CA-0205	2	1-59x	ZW699592	Thrust Washer C	CA-2098	1
1-28	HZ669892	Head Hanger B	CA-0201	1	1-60x	ZW699603	Thrust Washer D	CA-2098	1
1-29	HZ669903	Head Mt. Parts	CA-0203	1					
1-30	ZS356804	Set Screw, hexagon socket 3x4 (CUP/P)		2					
1-31	ZS303625	Screw, pan head 2.3x16		1					
1-32	ZG465636	Angle Adjust Spring	CG-0029	1					

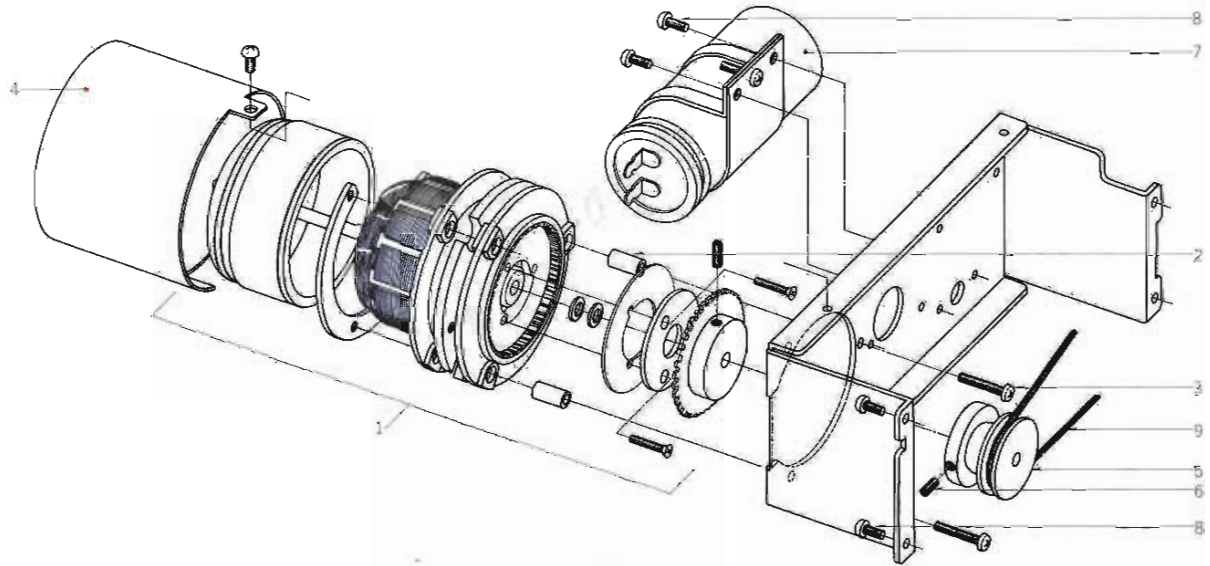
2. ILLUSTRATION OF REEL TABLE BLOCK



2) REEL TABLE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
2-1	BR637716	Take-up Reel Table Block		
		Comp.	CA1,2	1
2-2	BR670926	Supply Reel Table Block		
		Comp.	CA2	1

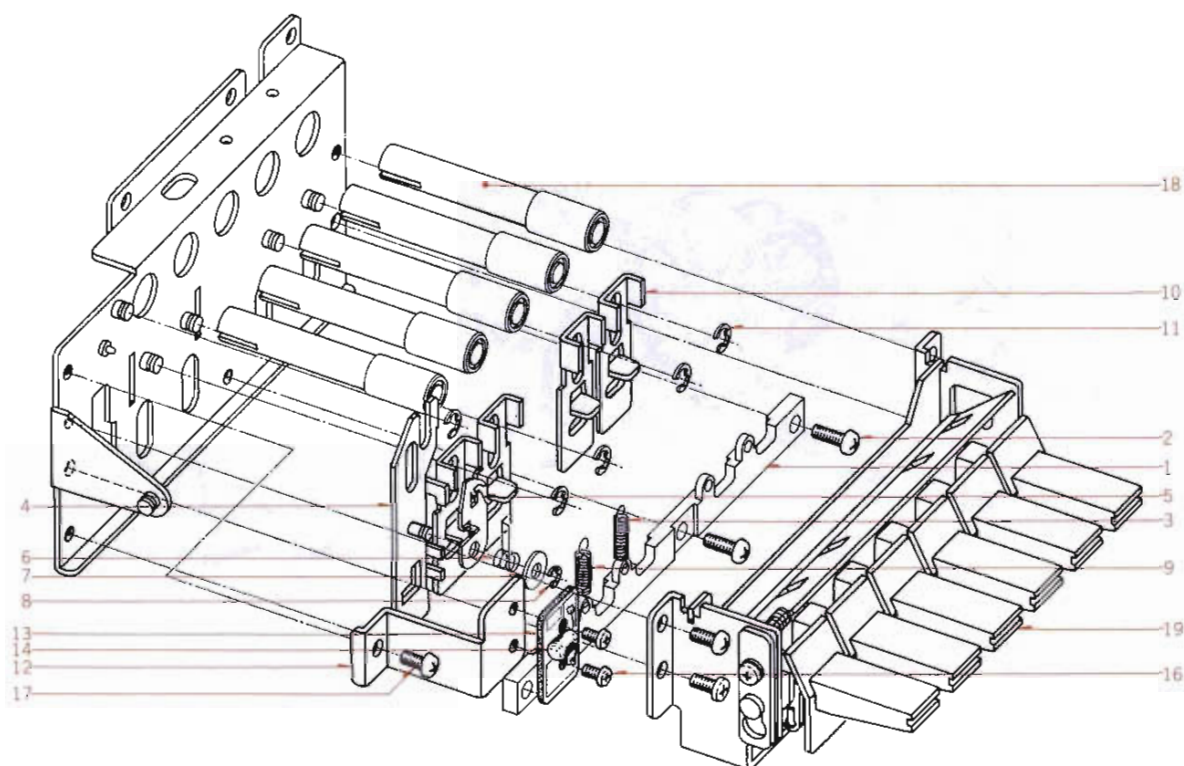
3. ILLUSTRATION OF MOTOR BLOCK



3) MOTOR BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
3-1	BM661241	Motor Block Comp. (SCM-700)		1
3-2	MZ659981	Stop Tube	CA-2205	3
3-3	ZS422965	Screw, pan head 3x15		3
3-4	MZ669881	Motor Shield	CA-7206	1
3-5	MR659992	Motor Pulley S	CA-2206	1
3-6	ZS356815	Set Screw, hexagon socket 3x6 (CUP/P.)		2
3-7	EC412582	MP/C. (Lug Type UNI/D.) 6μF 150WV AC	24-9:55	1
3-8	ZS325495	Tapping Screw #2 3x6 (BR)		2
3-9	MB659823	Drive Belt	CA-1204	1

4. ILLUSTRATION OF SUB CHASSIS BLOCK

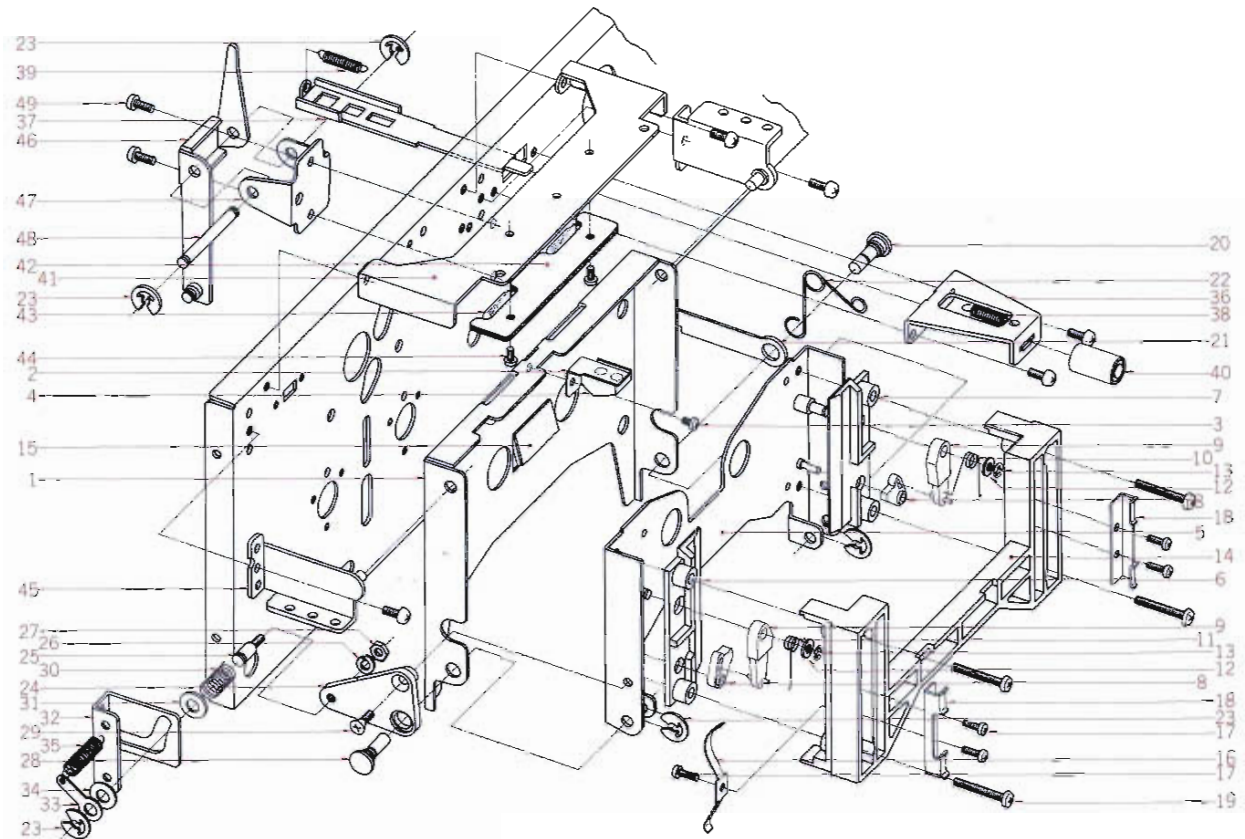


4) SUB CHASSIS BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
4-1	MS645175	Slider Guide	CA-2035	1
4-2	ZS609208	Tapping Screw #2 3x8 (Pan)		3
4-3	ZG525306	Spring 2	CV-2070	1
4-4	TC642172	Pause Slider, w/pin A	CA-2034	1
4-5	TC515575	SW. Lock Cam B	CG-2301	1
4-6	ZG632553	Button Lock Spring C	CG-2303	1
4-7	ZW550642	Washer (SPC) D3.1x8x0.5t		1
4-8	ZW270088	'E' Ring 1.9M	6-1-9	1
4-9	ZG392848	Operation Lever Spring	CS-2102	1
4-10	TC642161	Inter Lock Slide	CA-2033	4
4-11	ZW270101	'E' Ring 3M	6-1-9	5
4-12	TC642183	LP Mount	CA-2036	1
4-13	EA668340	REC. Lamp P.C Board	CA-2078	1
4-14	EL390576	Lamp (L/T) 24V 50MA	28-2-6	1
4-15x	ER551621	Carbon/R. (Insu. Type) RD1/2W 150 ohms (J)	35-9-15	1
4-16	ZS417161	Screw, pan head 2.3x4		2
4-17	ZS325495	Tapping Screw #2 3x6 (BR)		1
4-18	SB645232	Selector Button	CA-6011	5
4-19	BK650070	Keyboard	25-3-200	1
4-20	ZS379350	Screw, pan head 3x6		2
4-21	ZS325495	Tapping Screw #2 3x6 (BR)		2
4-22	ZS421806	Screw, pan head 3x8		1

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

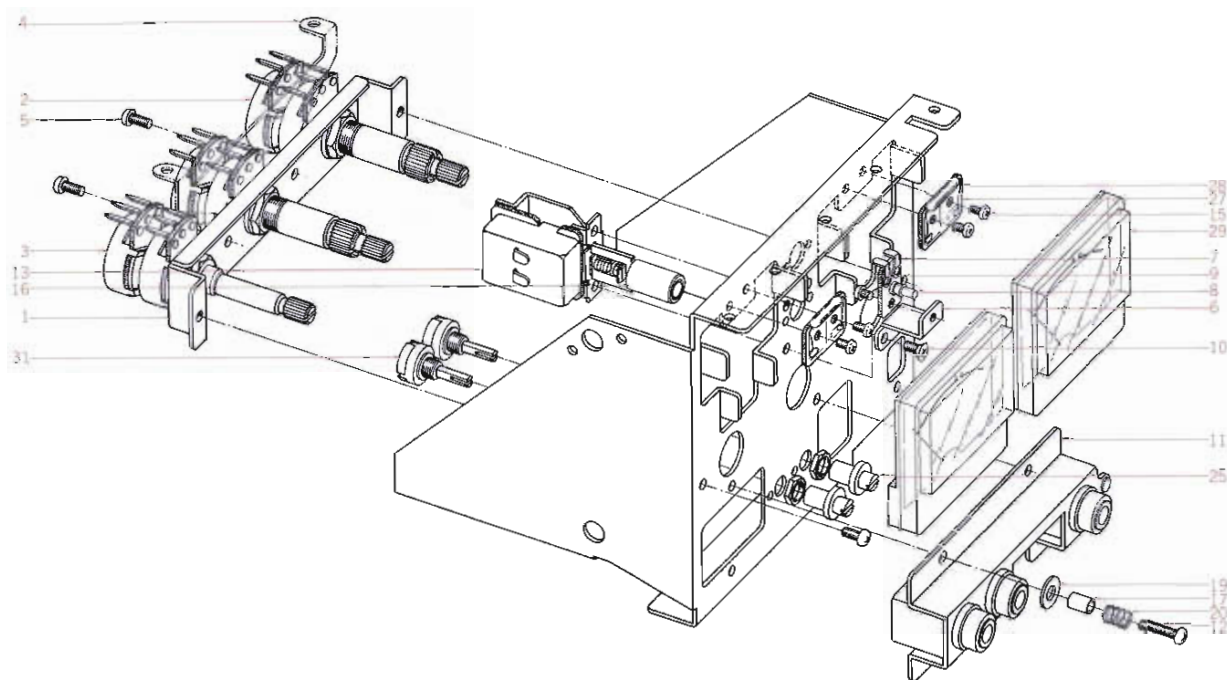
5. ILLUSTRATION OF CASSETTE HOLDER BLOCK



5) CASSETTE HOLDER BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
CASSETTE HOLDER BLOCK									
5-1	TC646931	Trap, w/boss	CA-2020	1	5-28	MH644916	Hinge Pin	CA-2028	1
5-2	ZG678464	Set Spring	CA-2092	1	5-29	ZS414033	Screw, countersunk head 3x8		1
5-3	ZS201407	Screw, pan head 2.3x3		1	5-30	ZG316765	REC. Button Spring	MR-252	1
5-4	TC678475	Cassette Retainer	CA-2091	1	5-31	ZW450753	Washer (Nylon) D4.2x9x1t		1
5-5	TC646920	Cassette Holder, w/pin	CA-2023	1	5-32	MS642374	Eject Guide	CA-2066	1
5-6	MS595563	Cassette Guide L	CH-2007	1	5-33	ZW273881	Earth Lug M4		1
5-7	MS595552	Cassette Guide R	CH-2006	1	5-34	ZW420682	Washer (Nylon) D4.2x9x0.5t		1
5-8	ML595574	Detector Lever A	CH-2008	2	5-35	ZG580746	Tension Spring	TD-2074	1
5-9	ML595585	Cassette Lever B	CH-2009	2	EJECT BUTTON BLOCK				
5-10	ZG595618	Spring A	CH-2004	1	5-36	TC642273	Eject Slot	CA-2052	1
5-11	ZG595620	Spring B	CH-2005	1	5-37	TC642284	Eject Key	CA-2053	1
5-12	ZW592391	Washer (PBP) D3.3x6x0.3t		2	5-38	ZG542204	Spring A	CZ-1010	1
5-13	ZW270088	'E' Ring 1.9M	6-1-9	2	5-39	ZG422223	Return Spring	PX-A132	1
5-14	TC647065	Cassette Case	CA-2024	1	5-40	SK631304	Push Button Knob I	91-5051	1
5-15	TC645186	Reflector	CA-2071	1	LAMP STAND BLOCK				
5-16	ZG207257	Sheet Spring B	CI-2019	2	5-41	TC642363	Lamp Stand	CA-2065	2
5-17	ZS669104	Tapping Screw #2 2.3x6 (PAN)		6	5-42	EA647190	Lamp P.C Board	CA-2064	1
5-18	TC642148	Lid Chuck	CA-2026	2	5-43	EL295312	Lamp (L/T) 8V 0.2A	28-2-8	2
5-19	ZS592402	Screw, pan head 3x18		4	5-44	ZS417161	Screw, pan head 2.3x4		3
5-20	MH664064	Hinge Pin B	CB-2029	1					
5-21	TC666156	Band Plate B	CB-2024	1	5-45	TC642071	Pin Stand, w/pin	CA-1099	2
5-22	ZG644938	Click Spring	CA-2031	1	5-46	ML641698	Eject Lever, w/pin	CA-1037	1
5-23	ZW290283	'U' Ring 2.85M	6-1-1	5	5-47	TC641700	Eject Lever Pillow	CA-1038	1
5-24	TC645164	Eject Guide Arm	CA-2027	1	5-48	MH644646	Eject Lever Pin	CA-1036	1
5-25	MH644927	Guide Pin	CA-2029	1	5-49	ZS325495	Tapping Screw #2 3x6 (BR)		2
5-26	ZW273914	Spring Washer M4		1					
5-27	ZW516993	Nut M3		1					

6. ILLUSTRATION OF FRONT CHASSIS BLOCK

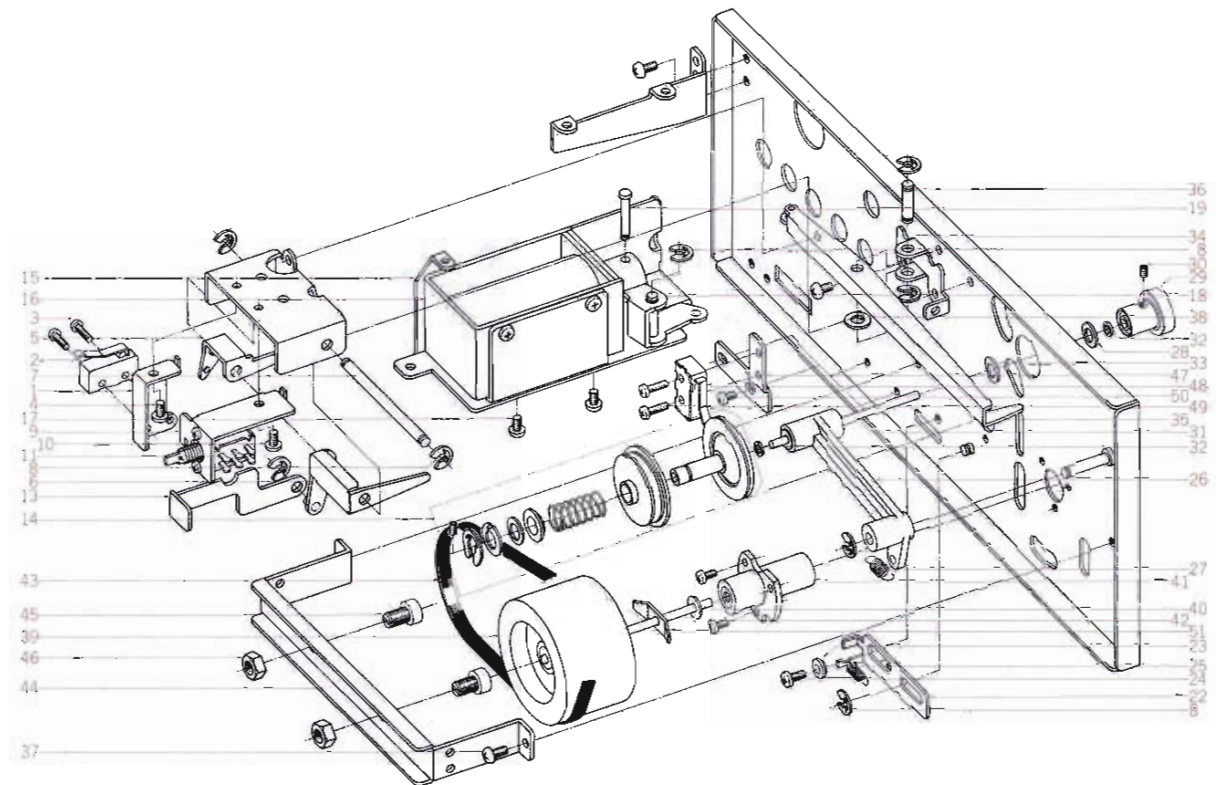


6) FRONT CHASSIS BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
VOL. MT. BASE BLOCK					6-15	ZS422076	Screw, pan head 3x5		2
6-1	MZ647098	Volume Mt. Base B	CA-5012	1	6-16	SK631304	Push Button Knob I	91-5051	1
6-2	EV669756	2-axial 2-throw Vol.			6-17	TC676844	Spacer 3x6	7-2-6	2
		V24LSDWTN 50 kAx2	36-3-67	2	6-18x	TC666134	Acrylic for Illumination	CA-5019	1
6-3	EV669767	Co-axial 2-throw Vol.			6-19	ZW562757	Washer (SPC) D4.3x11x0.8t		2
		V24LSGWTN 10 kBx2	36-1-43	1	6-20	ZG580533	Cramp Spring	TD-2046	2
6-4	MZ669600	Phone Bracket	CA-5201	1	6-21x	TR533564	Screw, pan head (W/Flange)	ED-6006	1
6-5	ZS325495	Tapping Screw #2 3x6 (BR)		2	6-22x	ZS608095	Screw, pan head 2x5		2
FRONT CHASSIS BLOCK					6-23x	ZS417161	Screw, pan head 2.3x4		4
6-6	TC644343	P.C Board Mount B	CA-5011	1	6-24x	ZW273802	Toothed Lock Washer M3		2
6-7	EA647188	LED P.C Board	CA-2051	1	6-25	SK669971	REC. CAL knob	CA-5203	2
6-8	ED656357	Luminous Diode SEL-105R	45-15-11	1	6-26x	SK669960	CAL Knob	CA-5202	1
6-9	ZS499331	Screw, pan head 2.3x5	45-15-11	1	6-27	EA457176	Lamp P.C Board	CG-5003	2
6-10	ZS200676	Tapping Screw #2 3x6 (Countersunk)		2	6-28	EL295312	Lamp (L/T) 8V 0.2A	28-2-8	2
6-11	BJ694247	Mic Jack Comp.	CA-5034	1	6-29	EM666450	VU Meter D18A68R	46-1-118	2
6-12	ZS447805	Tapping Screw #2 3x12 (BR)		2	6-30x	EM619705	VU Meter D18A66R (JPN)	46-1-96	2
6-13	ES469541	Push SW. TV-3 JB52	25-5-60	1	6-31	EV669868	Vol. V12M4-1		2
6-14x	ES499972	Push SW. JS-09 (CEE)	25-5-67	1			N15FH 5 kB	36-7-13	2
					6-32x	EZ624047	Cord Retainer	2-7-48	1

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

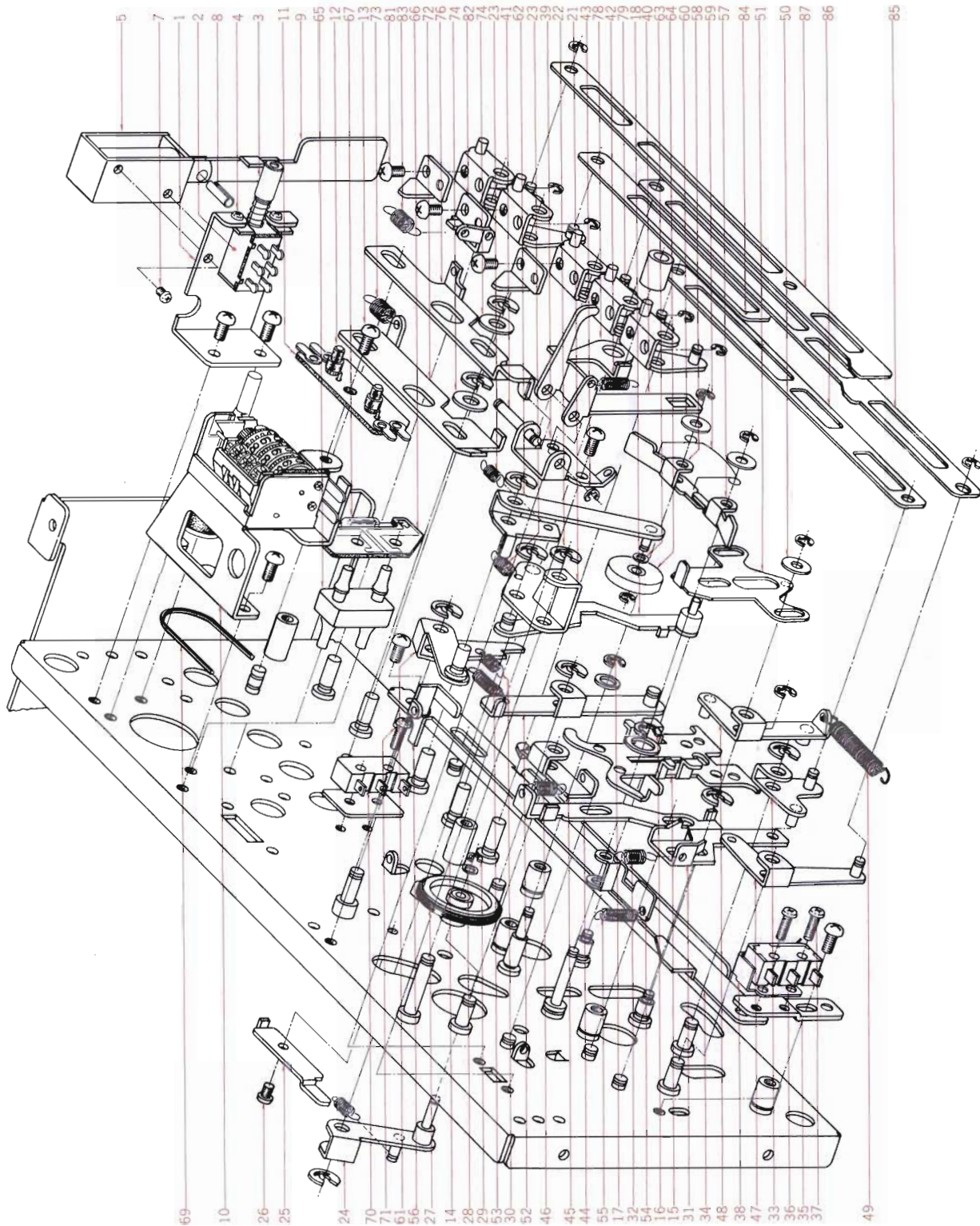
7. ILLUSTRATION OF MECHA FRAME BLOCK (1)



7) MECHA FRAME BLOCK (1)

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
SW. BOX BLOCK					7-24	ZS421806	Screw, pan head 3x8		1
7-1	MZ642341	SW. Bracket	CA-2061	1	7-25	ZG580285	Button Lever Spring	TD-2018	1
7-2	ES494188	Micro SW. SS-5GL-13	25-1-25	1	7-26	TC645074	Wheel Arm	CA-1020	1
7-3	ZS487091	Screw, pan head 2.3x8		2	7-27	ZG580252	Rock Plate A Spring	TD-2015	1
7-4	ZS325495	Tapping Screw #2 3x6 (BR)		1	7-28	ZW399137	Washer (PBP)		
7-5	ML642330	SW. Lever A	CA-2060	1			D5.1x10.3x0.25t		1
7-6	ML644602	SW. Lever B-2, w/pin	CA-2062	1	7-29	MI678633	Driving Wheel B	CA-1210	1
7-7	MS644962	SW. Lever Shaft	CA-2063	1	7-30	ZS434160	Set Screw, hexagon socket 3x3 (CUP/P.)		1
7-8	ZW290283	'U' Ring 2.85M	6-1-1	7	7-31	MS644613	Drive Wheel Shaft	CA-1028	1
7-9	TC669947	REC. SW. Bracket	CA-2213	1	7-32	ZW694798	Washer D3.1x7x0.2t		4
7-10	ZS455207	Tapping Screw #2 3x5 (BR)		1	7-33	MZ678508	Oil Cut	CA-1110	1
7-11	ES227215	Push SW. SPJ10215	25-5-229	1	7-34	TC641676	Escapement Pillow	CA-1034	1
7-12x	ZS201475	Screw, pan head 2x3		2	7-35	TC641687	Escapement, w/pin	CA-1035	1
7-13	TC669958	REC. SW. Slide	CA-2214	1	7-36	MH644635	Escapement Pin	CA-1033	1
CLUTCH BLOCK					7-37	ZS325495	Tapping Screw #2 3x6 (BR)		4
7-14	BZ210396	Clutch Block Comp.		1	7-38	ZW679410	Washer D4.2x9x0.8t		1
PLUNGER BLOCK					7-39	BF262686	Flywheel Set A, B	CA-1201	1
7-15	TC654794	Plunger Bracket, w/shaft	CA-2208	1	7-40	ZW675246	Washer D3.1x8x0.5t		2
7-16	EP638706	Plunger Solenoid 1660PHT-3	44-1-74	1	7-41	MZ644657	Capstan Metal Case	CA-1039	2
7-17	ZS422076	Screw, pan head 3x5		4	7-42	ZS499331	Screw, pan head 2.3x5		6
7-18	ML669936	Drive Lever, w/pin	CA-2211	1	7-43	MB665526	Capstan Belt	CA-1211	1
7-19	MH533913	Connecting pin	TW-2010	1	7-44	TC641711	Flywheel Table	CA-1045	1
7-20x	ZW270088	'E' Ring 1.9M	6-1-9	1	7-45	TC653218	Capstan Support	CH-1078	2
7-21x	ED224550	Silicon Diode 10D4	45-2-16	1	7-46	ZW668452	Metal Nut	7-1-64	2
MECHA FRAME BLOCK					7-47	TC642060	Micro SW. Table	CA-1096	1
7-22	TC641654	Eject Key	CA-1018	1	7-48	ES494188	Micro SW. SS-5GL-13	25-1-25	1
7-23	ZW644578	Step Washer	CA-1019	1	7-49	ZS487091	Screw, pan head 2.3x8		2
					7-50	ZS201407	Screw, pan head 2.3x3		2
					7-51	ZG678486	Thrust for Plate Spring	CA-1109	2

8. ILLUSTRATION OF MECHA FRAME BLOCK (2)



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

8) MECHA FRAME BLOCK (2)

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
MEMORY SW. BLOCK					8-69	MB415743	Counter Belt A D96x1x1	CC-1034	1
8-1	TC642295	Memory SW. Bracket	CA-2054	1	8-70	ES494188	Micro SW. SS-SGL-13	25-1-25	1
8-2	ES619053	Push SW. SPJ-10114B	25-5-144	1	8-71	ZS465298	Screw, pan head 2.3x10		2
8-3	SZ645221	Memory Cap.	CA-6010	1	8-72	TC641957	Switch Slider	CA-1083	1
8-4	ZS460440	Screw, pan head 2x4		2	8-73	ZG385413	Auto. Stop Spring B	CS-1033	1
8-5	EP494425	Plunger Solenoid 0730THT1	44-1-48	1	8-74	ZW326463	Washer (PBP) D5.1x10.3x0.2t		2
8-6x	ED494583	Silicon Diode 10D05	45-2-42	1	8-75x	ZW450753	Washer (Nylon) D4.2x9x1t		2
8-7	ZSS92378	Screw, pan head 2.6x3		1	8-76	TC641968	Switch Slider B	CA-1084	1
8-8	MH620572	Spring pin SPP 2.5x12		1	8-77	ZW313593	Washer (PBP) D5.1x10.3x0.5t		2
8-9	TC642306	Auto Stop Slider	CA-2055	1	8-78	ML641992	Pause Lever B	CA-1087	1
COUNTER BLOCK					8-79	MZ641970	Joint Arm, w/pin A, B	CA-1085	5
8-10	MC645985	Counter SMP-390-73	9-1-42	1	8-80	TC675202	Spacer 4x9	7-2-6	1
8-11	EA647166	Luminous Diode P.C Board	CA-2069	1	8-81	ZS422076	Screw, pan head 3x5		3
8-12	ED656346	Luminous Diode SEL-305GC	45-15-10	2	8-82	TC642003	Joint Arm Piece B	CA-1088	1
8-13	ZS325495	Tapping Screw #2 3x6 (BR)		4	8-83	ZG580285	Button Lever Spring	TD-2018	1
MECHA FRAME BLOCK					8-84	TC659970	Play Joint 2	CA-1207	1
8-14	TC644567	Sub Frame Post	CA-1017	1	8-85	TC642047	RWD Joint	CA-1092	1
8-15	TC260458	Play Slider (B)	CA-1132	1	8-86	TC659968	REC Joint 2	CA-1206	1
8-16	ZW270123	'E' Ring 4M	6-1-9	1	8-87	TC642058	F.F. Joint	CA-1093	1
8-17	ZW270101	'E' Ring 3M	6-1-9	9					
8-18	TC641755	Relay Plate, w/pin	CA-1049	1					
8-19x	ZW322525	Washer (PBP) D4.1x7x0.2t		1					
8-20x	ZW420682	Washer (Nylon) D4.2x9x0.5t		1					
8-21	ML641744	Play Idler Lever, w/shaft B	CA-1048	1					
8-22	ZW290283	'U' Ring 2.85M	6-1-1	15					
8-23	ZG385986	Safety Lever Return Spring	CS-2539	2					
8-24	TC641766	Play Idler Arm, w/shaft	CA-1051	1					
8-25	TC651161	Set Plate	CA-1106	1					
8-26	ZS201407	Screw, pan head 2.3x3		1					
8-27	ML644736	Idler	CA-1054	1					
8-28	ZW645952	Washer D2.1x4x0.2t		3					
8-29	ZW356657	'E' Ring 1.5M	6-1-9	2					
8-30	ZG469315	Take-up Lever Spring	CG-1091	2					
8-31	MC641845	REC Counter	CA-1069	1					
8-32	ZG567696	Azimuth Spring 2	CP-0041	1					
8-33	ML641856	REC Lever, w/pin	CA-1070	1					
8-34	TC669914	Play Lever Joint 2	CA-1205	1					
8-35	TC641880	REC SW. Table	CA-1074	1					
8-36	ES389700	Micro SW. SS-5	25-1-19	1					
8-37	ZS487091	Screw, pan head 2.3x8		2					
8-38	MZ682751	REC Actuator	CA-1112	1					
8-39	TC641867	REC Detector Lever Holder	CA-1071	1					
8-40	ML641878	REC Detector Lever	CA-1072	1					
8-41	ML644815	REC Detector Lever Pin	CA-1073	1					
8-42	ZG451574	Slider Pull Spring	RCC-1207B	1					
8-43	ZW270088	'E' Ring 1.9M	6-1-9	9					
8-44	TC641812	RWD Slide Beam	CA-1065	1					
8-45	ML641823	RWD Lever	CA-1066	1					
8-46	ZG567696	Azimuth Spring 2	CP-0041	1					
8-47	ML641834	RWD Lever B, w/pin	CA-1067	1					
8-48	ML653207	Play Lever B, w/pin	CA-1080	1					
8-49	ZG644848	PR Spring	CA-1081	1					
8-50	ZW317171	Washer (PBP) D3.1x8x0.1t		1					
8-51	ML641902	Brake Slider, w/cam sensor	CA-1076	1					
8-52	ML641788	F.F. Joint Lever, w/pin B	CA-1058	1					
8-53	ZG577945	FF Slide Lever Spring	PW-1022	1					
8-54	ML641891	Back Tension Lever	CA-1075	1					
8-55	ZG387178	Idler Tension Spring	CS-1106	1					
8-56	TC641801	Wind Lever Resetter	CA-1064	1					
8-57	ML641913	Brake Lever A	CA-1078	1					
8-58	ML641924	Brake Lever B	CA-1078	1					
8-59	ZG644837	Brake Spring	CA-1079	1					
8-60	ZW259468	Washer D3.1x8x0.2t	BT-104	2					
8-61	ML641777	F.F. Lever, w/pin	CA-1056	1					
8-62	TC641790	F.F. Wind Arm	CA-1060	1					
8-63	ZW645952	Washer D2.1x4x0.2t		2					
8-64	ML644804	FW Wheel, w/metal	CA-1063	1					
8-65	TC645118	P.C Board Retainer	CA-1094	1					
8-66	EA647201	Reed SW. P.C Board	CA-1095	1					
8-67	ES516036	Reed SW. ORD-225	25-11-1	1					
8-68x	EC350875	Mylar/C. (Vert. Type) 0.001μF (J) 50WV	24-1-1	1					

9. P.C BOARDS

(1) PRE AMP P.C BOARD (CA-5205) BLOCK

Symbol No.	Parts No.	Description	Q'ty
(1)-1	BA661217	Pre Amp P.C Board Comp. (CA-5205)	1
(1)-IC1	ET669655	IC μ PC1024H	2
(1)-IC2	ET669666	IC μ PC1023H	2
(1)-IC3	ET669655	IC μ PC1024H	2
(1)-IC4	ET669712	IC TA7122AP	2
(1)-TR1	ET669633	FET 2SK68A (L.) (M)	2
(1)-TR2,3	ET459810	Transistor 2SC1222 (E) (F)	4
(1)-TR4,5	ET234854	Transistor 2SC458LG (C)	4
(1)-TR6to8	ET398711	Transistor 2SC945L (Q) (R)	6
(1)-TR9	ET645917	FET 2SK30A (D)	2
(1)-TR10,11	ET234854	Transistor 2SC458LG (C)	4
(1)-TR12,13	ET398711	Transistor 2SC945L (Q) (R)	4
(1)-TR14	ET645917	FET 2SK30A (D)	2
(1)-D1	ED557447	Silicon Diode 1S1588	2
(1)-D2	ED219464	Germanium Diode 1N34A	2
(1)-D3,4	ED560913	Silicon Diode 1S2473VE	4
(1)-D5	ED491130	Zener Diode WZ-085	2
(1)-D6	ED219464	Germanium Diode 1N34A	2
(1)-D7to10	ED560913	Silicon Diode 1S2473VE	8
(1)-D11	ED624903	Silicon Diode 1S2473	2
(1)-D12	ED219464	Germanium Diode 1N34A	2
(1)-D13,14	ED560913	Silicon Diode 1S2473VE	4
(1)-D15	ED219464	Germanium Diode 1N34A	2
(1)-FL1	EO669734	MPX Filter FB1801M	2
(1)-L1	EO496350	Inductor 146LY 36MH (J)	2
(1)-L2,3	EO308395	Ferri Inductor FL7H 3MH (J)	4
(1)-L4	EO368403	Ferri Inductor FL9H 33MH (J)	2
(1)-VR1	EV523620	Semi-Fixed/Vol. V8K4-1 500 B	2
(1)-VR2	EV464220	Semi-Fixed/Vol. V8K4-1 50 k Ω	2
(1)-VR3	EV464207	Semi-Fixed/Vol. V8K4-1 5 k Ω	2
(1)-VR4	EV464220	Semi-Fixed/Vol. V8K4-1 50 k Ω	2
(1)-VR5	EV464207	Semi-Fixed/Vol. V8K4-1 5 k Ω	2
Capacitor, Vertical Type			
(1)-C1	EC516723	Styrol 270PF (K) 50WV	2
(1)-C4	EC516767	Styrol 470PF (K) 50WV	2
(1)-C11	EC604102	Solid Aluminum 0.33 μ F(K) 25WV	2
(1)-C22	EC604102	Solid Aluminum 0.33 μ F(K) 25WV	2
(1)-C23	EC619650	Solid Aluminum 0.1 μ F(K) 25WV	2
(1)-C26,27	EC619650	Solid Aluminum 0.1 μ F(K) 25WV	4
(1)-C34	EC619650	Solid Aluminum 0.1 μ F(K) 25WV	2
(1)-C45	EC619650	Solid Aluminum 0.1 μ F(K) 25WV	2
(1)-C59	EC516778	Styrol 680PF(K) 50WV	2
(1)-C60,61	EC623002	Styrol 820PF(K) 50WV	4
(1)-C62	EC604102	Solid Aluminum 0.33 μ F(K) 25WV	2
(1)-C63	EC619650	Solid Aluminum 0.1 μ F(K) 25WV	2
(1)-C64	EC662308	Solid Aluminum 0.15 μ F(K) 25WV	2
(1)-C66,67	EC619650	Solid Aluminum 0.1 μ F(K) 25WV	4
(1)-C74	EC619650	Solid Aluminum 0.1 μ F(K) 25WV	2
(1)-C79	EC516767	Styrol 470PF(K) 50WV	2
(1)-C82	EC516767	Styrol 470PF(K) 50WV	2
(1)-C85	EC676754	Styrol 680PF(J) 50WV	2

(2) SW. P.C BOARD (CA-2216, 2219) BLOCK

Symbol No.	Parts No.	Description	Q'ty
(2)-1	BA661307	SW. P.C Board Comp. (CA-2216, 2219)	1
(2)-SW1	ES669677	Push SW. SFT-0004EF2020	1
(2)-L1	EO243988	Ferri Inductor FL7H 3.3MH(J)	2
(2)-2	TC642317	P.C Board Bracket	1
(2)-3	ZS379350	Screw, pan head 3x6	2
(2)-C5	EC621257	Solid Aluminum/C. (Vert. Type) 0.47 μ F(M) 25WV	2

(3) HEADPHONE & OSC P.C BOARD (CA-5209) BLOCK

Symbol No.	Parts No.	Description	Q'ty
(3)-1	BA661195	Headphone & OSC P.C Board Comp. (CA-5209)	1
(3)-TR1	ET638504	Transistor 2SC945L (P)	1
(3)-D1	ED219464	Germanium Diode 1N34A	2
(3)-T1	BT490702	Headphone Trans. N19-349S	2
(3)-SW1	ES664615	Push SW. SPJ-10113	1
(3)-C6	EC514001	Styrol/C. (Vert. Type) 390PF (J) 50WV	1

(4) POWER SUPPLY & OSC P.C BOARD (CA-5206) BLOCK

Symbol No.	Parts No.	Description	Q'ty
(4)-1	BA661206	Power Supply & OSC P.C Board Comp. (CA-5206)	1
(4)-2	BA671106	Power Supply & OSC P.C Board Comp. (CA-5206) (CEE)	1
(4)-3	BA671117	Power Supply & OSC P.C Board Comp. (CA-5206) (CSA)	1
(4)-4	BA671128	Power Supply & OSC P.C Board Comp. (CA-5206) (JPN)	1
(4)-TR1,2	ET622080	Transistor 2SC1175 (E) (F)	2
(4)-TR3	ET453611	Transistor 2SC1096 (L) (K) (Z Type)	1
(4)-D1to4	ED494583	Silicon Diode 10D05	4
(4)-D5to8	ED224550	Silicon Diode 10D4	4
(4)-D9	ED511918	Zener Diode WZ-240	1
(4)-D10	ED494583	Silicon Diode 10D05	1
(4)-L1	EO682367	Ferri Inductor FS1215S-471JR20	1
(4)-RL1	EP638763	Relay MY4-02-US DC24V	1
(4)-VR1,2	EV650891	Semi-Fixed/Vol. V10K8-4-2 50 k Ω	2
(4)-T1	EO620482	OSC Coil OT-925	1
(4)-CR1,2	ER376435	Spark Quencher U/L 0.1 μ +120 ohms 250WV	2
(4)-5	ZW273756	Nut M3	1
(4)-6	ZS421806	Screw, pan head 3x8	1
(4)-7	EZ644354	Power Supply Heat-sink Plate	1
(4)-8	ZS421806	Screw, pan head 3x8	2
(4)-9	EZ675562	Fuse Holder 4P (small) (CEE)	1
(4)-10	EZ672840	Fuse Holder 4P (large) (CSA, JPN)	1
(4)-11	MH698220	Fuse Holder Prop (CEE, CSA, JPN)	2
(4)-12	ZS379350	Screw, pan head 3x6 (CEE, CSA, JPN)	4
(4)-R8	ER672502	Wire Wound/R. (P Type) RW1/2W 6.8 ohms (K)	1
(4)-R11	ER563253	Cement/R. (Wire-wound Type) 3W 2.2 ohms (K)	1
(4)-C5,6	EC412593	Styrol/C. (Vert. Type) 820PF(J) 50WV	2
(4)-C7	EC460091	Plastic Film/C. 3300PF(J) 500WV	1

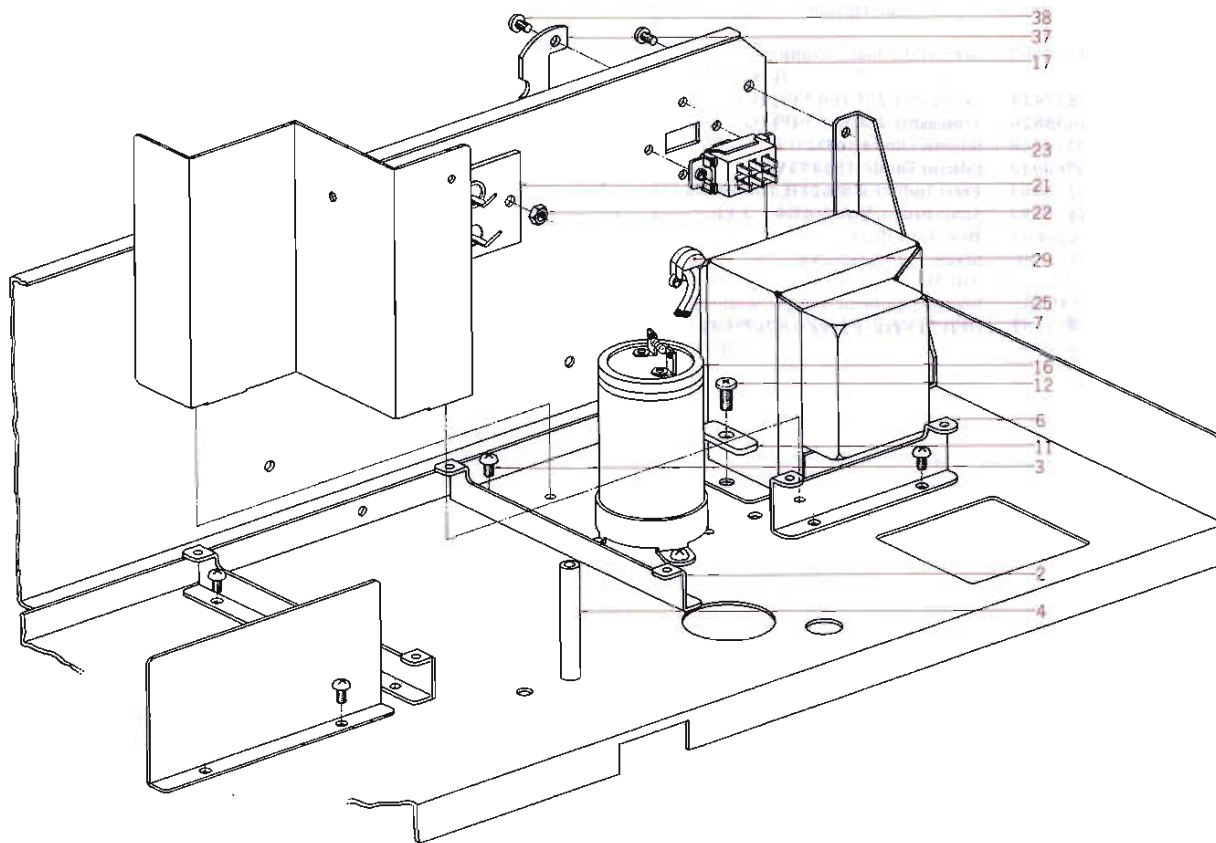
(5) SYS. CON P.C BOARD (CA-5210) BLOCK

Symbol No.	Parts No.	Description	Q'ty
(5)-1	BA661296	Sys. Con P.C Board Comp. (CA-5210)	1
(5)-TR1	ET398711	Transistor 2SC945L (Q) (R)	1
(5)-TR2	ET375603	Transistor 2SC1061 (B) (C)	1
(5)-TR3to8	ET398711	Transistor 2SC945L (Q) (R)	6
(5)-TR9	ET511920	Transistor 2SC1247A (B) (V)	1
(5)-TR10	ET554657	Transistor 2SA733 (P) (Q)	1
(5)-D1to9	ED560913	Silicon Diode 1S2473VE	9
(5)-C9	EC514001	Styrol/C. (Vert. Type) 390PF (J) 50WV	1

(6) SERVO P.C BOARD (CA-2218) BLOCK

Symbol No.	Parts No.	Description	Q'ty
(6)-1	BA235607	Servo P.C Board Comp. (CA-2218)	1
(6)-TR1 to 6	ET592424	Transistor 2SC1647 (S) (E)	6
(6)-TR7	ET635826	Transistor 2SC1683 (P) (Q)	1
(6)-D1 to 4	ED224548	Silicon Diode 10D2	4
(6)-D5	ED560913	Silicon Diode 1S2473VE	1
(6)-L1	EO538391	Ferri Inductor FL11H 100MH(J)	1
(6)-VR1	EV620493	Semi-Fixed/Vol. V8K4-1 3 k Ω	1
(6)-2	EZ659867	Heat-sink Plate	1
(6)-3	ZS421806	Screw, pan head 3x8	1
(6)-4	ZW273756	Nut M3	1
(6)-5	ZS558101	Screw, pan head 3x6 (w/washer)	2
(6)-C1	EC487157	NP/C. (Vert. Type) 0.47 μ F (M) 50WV	1

10. ILLUSTRATION OF AMP ASSEMBLY BLOCK



10) AMP ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
AMP CHASSIS BLOCK									
10-1x	SA659845	Board Mt. Foot B	CA-5211	1	10-29	EJ631945	Strain Relief SR-4N-4	2-7-49	1
10-2	SA669982	Board Mt. Foot	CA-5204	2	10-30x	EZ246936	Strain Relief SR-6W-1 (CEE)	2-7-8	1
10-3	ZS325495	Tapping Screw #2 3x6 (BR)		22	10-31x	EF674684	Fuse Holder (w/reed) (CEE)	40-2-11	1
10-4	MH411524	P.C Board Prop	LF-5028	1	10-32x	EF623103	Fuse (SEMKO T Type)		
10-5x	ZS379350	Screw, pan head 3x6		4			1AT (CEE)	39-1-53	1
10-6	MZ644332	Power Supply P.C Board	CA-5008	1	10-33x	ZS413201	Screw, pan head 4x8 (CEE)		1
		Foot			10-34x	ZW413188	Nut M4 (CEE)		1
10-7	BT669846	Power Trans. CA-5	38-4-383	1	10-35x	ZW273881	Earth Lug M4 (CEE)		1
10-8x	BT675573	Power Trans. CA-8 (CEE)	38-4-409	1	10-36x	ZW273892	Toothed Lock Washer		
10-9x	BT675538	Power Trans. CA-7 (CSA)	38-4-408	1			M4 (CEE)		1
10-10x	BT675540	Power Trans. CA-6 (JPN)	38-4-407	1	ASSEMBLY BLOCK				
10-11	TC516598	Trans. Retainer	CS-5337	2	10-37	TC613697	Volt Indication Plate	CW-5018	1
10-12	ZS413201	Screw, pan head 4x8		2	10-38	ZS447761	Tapping Screw #2 3x6 (BR)		
10-13x	ZW413188	Nut M4		2			(Black)		2
10-14x	ZW273892	Toothed Lock Washer M4		2	10-39x	EJ255115	Lug Plate VB2L2	33-4-3	1
10-15x	EJ551035	Wrapping Terminal,			10-40x	EF676866	Fuse 0.8A 250V (w/reed)	39-1-49	1
		4P T-5251	32-1-36	1	10-41x	MT553948	Wire Band B	2-35-3	9
10-16	EC669857	Elect./C. (Lug Type)			10-42x	EF238634	Fuse (T Type) 400 MAT		
		470μF 200WV	24-10-109	1			(CEE)		2
10-17	SP669835	Rear Panel A	CA-5208	1	10-43x	EF601953	Fuse (SEMKO T Type)		
10-18x	SP675494	Rear Panel C (CEE)	CA-5208	1			800 MAT (CEE)	39-1-53	1
10-19x	SP675516	Rear Panel E (CSA)	CA-5208	1	10-44x	EF601942	Fuse (SEMKO T Type)		
10-20x	SP675292	Rear Panel B (JPN)	CA-5208	1			630 MAT (CEE)	39-1-53	1
10-21	EJ669745	4P Jack Plate	31-5-130	1	10-45x	EF277424	Fuse ST-4 0.8A (CSA)	39-1-28	2
10-22	ZW273756	Nut M3		3	10-46x	EF277413	Fuse ST-2 2A (CSA)	39-1-26	1
10-23	ES479485	Slide SW. S-1	25-3-66	1	10-47x	EF659711	Fuse ST-2 1.6A (CSA)	39-1-26	1
10-24x	ZS422076	Screw, pan head 3x5		4	10-48x	EF575932	Fuse 0.8A 250V (JPN)	39-1-50	2
10-25	EW374894	AC Cord CUL 3M	26-3-19	1	10-49x	EF558066	Fuse 2A 125V (JPN)	39-1-47	1
10-26x	EW516600	AC Cord (CEE) VM-0065	26-3-28	1	10-50x	EF675551	Fuse 1.6A 125V (JPN)	39-1-47	1
10-27x	EW207742	AC Cord CUL (CSA)	26-3-45	1					
10-28x	EW524845	AC Cord 2.5M (JPN)	26-3-31	1					

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

11. PHOTO OF FINAL ASSEMBLY BLOCK



11) FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
FRONT PANEL BLOCK				
11-1	BZ661151	Front Panel Block Comp.	CA-6001	1
11-2	SP647043	Front Panel B	CG-6814	1
11-3	SE631585	Button Escutcheon D	MC-5006	2
11-4	ZW526577	Collar B, Jack	CW-6021	5
11-5	SE613888	Button Escutcheon A	NE-6005	2
11-6	SZ639685	Lamp Lens B-1	CG-2206	1
11-7x	TC494267	Lamp Cover	CA-6004	1
11-8	SE659654	VU Escutcheon B	CJ-6007	2
11-9	SE659665	Counter Escutcheon B	CB-6011	1
11-10x	SE244934	CAL Knob Mat	CA-6005	1
11-11x	MZ646986	Frame (Black)		1
11-12x	ZS325495	Tapping Screw #2 3x6 (BR)		4
11-13	BD681491	Lid Panel Block Comp.	CA2,CB	1
ASSEMBLY BLOCK				
11-14	SB645232	Selector Button	CA-6011	5
11-15	SK645030	Single Knob B	CA-6013	1
11-16	SK654750	Double Knob (Lower)	CA-6202	2
11-17	SK669993	Double Knob (Upper)	CA-6201	2
11-18x	SP647054	Bottom Plate A	CA-6009	1
11-19x	SZ645243	Circular Foot A	CA-6014	4
11-20x	SZ417150	Screw, pan head 4x6		4
11-21	BC647076	Cabinet	CA-6008	1
11-22	ZW548010	Spot Facing Washer	MU-6028	4
11-23	ZS510344	Screw, binding head 4x12		4

12. LIST OF INTERCHANGEABLE SEMICONDUCTORS

As far as service is concerned, in case the original parts cannot be obtained, the interchangeable parts listed below can be substituted.

Original Parts			Interchangeable Parts	
Description	Parts No.	Utilizing P.C Board	Description	Parts No.
2SC458LG (C)	ET234854	CA-5205	2SC693U (F) 2SC458 (C) 2SC1312S (G) (H)	ET315472 ET329218 ET603257
2SC94L (Q) (R)	ET398711	CA-5205 CA-5209 CA-5218	2SC711 (E) (F) 2SC1647 (R) (S) (E) 2SC1641 (R) (S) (E)	ET453486 ET623733 ET603843
2SC1061 (B) (C)	ET375603	CA-5218	2SD361 (D) (E) 2SC1449 (K) (L) (H)	ET537300 ET635815
2SC1096 (K) (L)	ET453611	CA-5206	2SD360 (D) (E)	ET517375
2SC1175 (E) (F)	ET622080	CA-5206	2SC1211 (D) (E)	ET511694
2SC1222 (E) (F)	ET459810	CA-5205	2SC1000GR (BL) 2SC458LG (C)	ET622181 ET234854
2SC1247A (B) (V)	ET511920	CA-5218	2SC1211 (D) (E) 2SC711 (E) (F) (G)	ET511694 ET520841
2SC1647 (S) (E)	ET592424	CA-2218	2SC711 (E) (F) 2SC1641 (K) (L) (H)	ET453486 ET635815
2SC1683 (P) (Q)	ET635826	CA-2218	TIP47 TIP48	ET621775 ET621786
2SA733 (P) (Q)	ET554657	CA-5218	2SA564 (Q) (R) 2SA628 (D) (E)	ET538154 ET538110
2SK30A (O)	ET550798	CA-5205		
2SK68A (L) (M)	ET669633	CA-5205		
μPC1023H	EI669666	CA-5205	TA7122P	EI669712
μPC1024H	EI669655	CA-5205	TA7129P	EI657000
1N34A	ED417442 ED219464	CA-5205 CA-5209	1S188AM 1N60	ED562386 ED428264
1S2473	ED624903	CA-5218	1S1588 WG599	ED557447 ED514721
1S2473VE	ED560913	CA-2218 CA-5205 CA-5218	1S1588 WG599 WG713	ED557447 ED514721 ED515790
10D4	ED224550	CA-5206	1N4003	ED570295
10D05	ED494583	CA-5206	1N4001	ED511097
10D2	ED224548	CA-2218	1N4003	ED570295
WG085	ED491130	CA-5205	RD6A	ED229105
WZ240	ED511918	CA-5206	RD24A	ED229072
SEL105R	ED656357			
SEL305GC	ED656346	CA-2069		

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BA235607	(6)-1	ED656357	6-8	EV669868	6-31	MZ646986	11-11x	TC654794	7-15
BA661195	(3)-1	EF238634	10-42x	EW207742	10-27x	MZ647098	6-1	TC659970	8-84
BA661206	(4)-1	EF277413	10-46x	EW374894	10-25	MZ659981	3-2	TC659968	8-86
BA661217	(1)-1	EF277424	10-45x	EW516600	10-26x	MZ669600	6-4	TC666134	6-18x
BA661296	(5)-1	EF558066	10-49x	EW524845	10-28x	MZ669881	3-4	TC666156	5-21
BA661307	(2)-1	EF575932	10-48x	EZ246936	10-30x	MZ678508	7-33	TC669914	8-34
BA671106	(4)-2	EF601942	10-44x	EZ624047	6-32x	MZ682751	8-38	TC669947	7-9
BA671117	(4)-3	EF601953	10-43x	EZ644354	(4)-7	SA659845	10-1x	TC669958	7-13
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BF262686	7-39	EF675551	10-50x	HE636963	1-17	SE244934	11-10x	TC678622	1-46
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BR637716	2-1	EL669712	(1)-IC4	HZ236834	1-3	SK631304	5-40	ZG385413	8-73
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BT675538	10-9x	EJ669745	10-21	HZ669892	1-28	SK669960	6-26x	ZG422223	5-39
BT675540	10-10x	EL295312	5-43	HZ669903	1-29	SK669971	6-25	ZG451574	8-42
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EC604102	(1)-C22	ES494188	7-2	ML641823	8-45	TC641790	8-62	ZG678486	7-51
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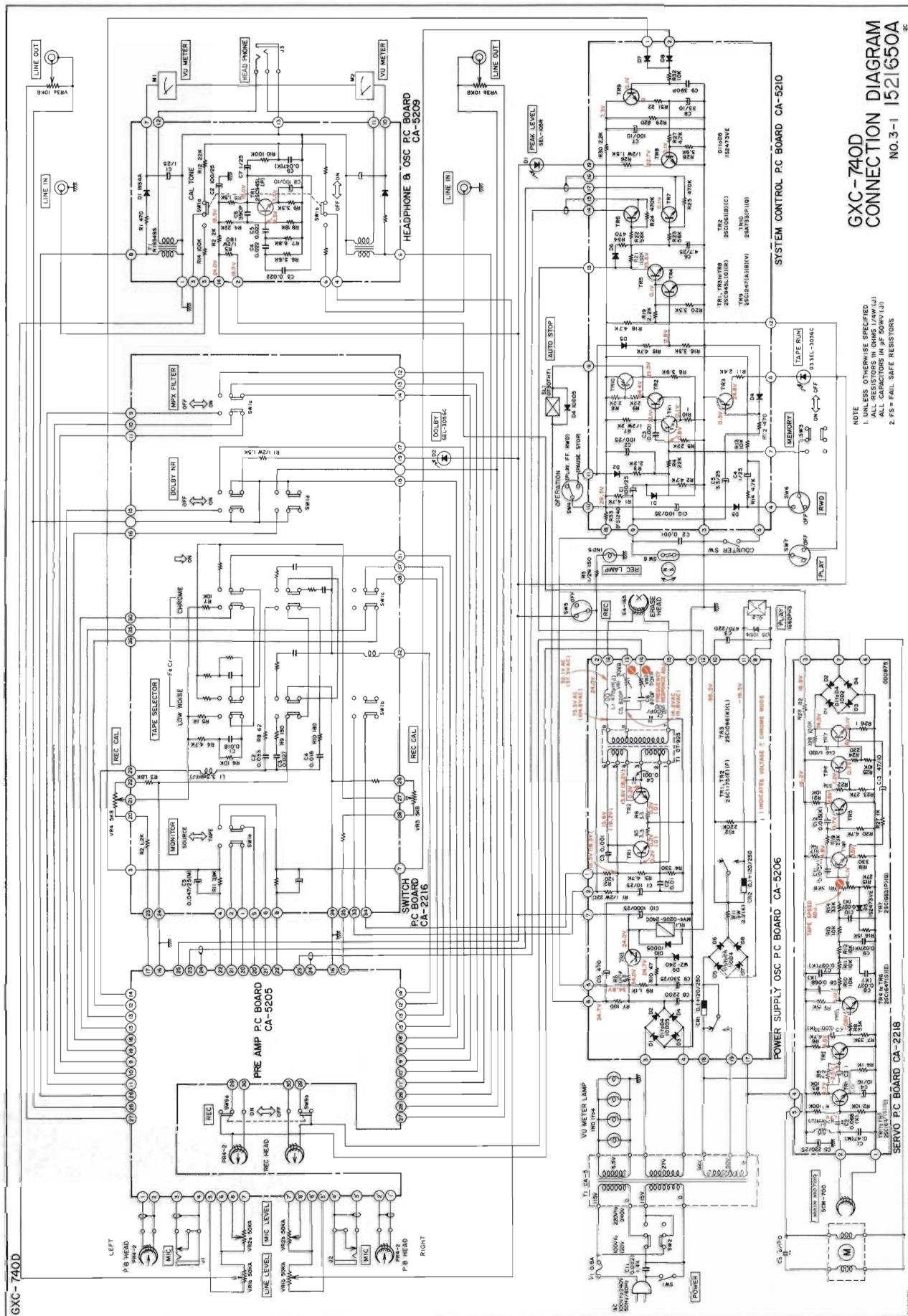
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SECTION 3

SCHEMATIC DIAGRAM

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3. GXC-740D NO. 3-3 1521652A POWER SUPPLY SCHEMATIC DIAGRAM



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TO SYSCON (MUTE)

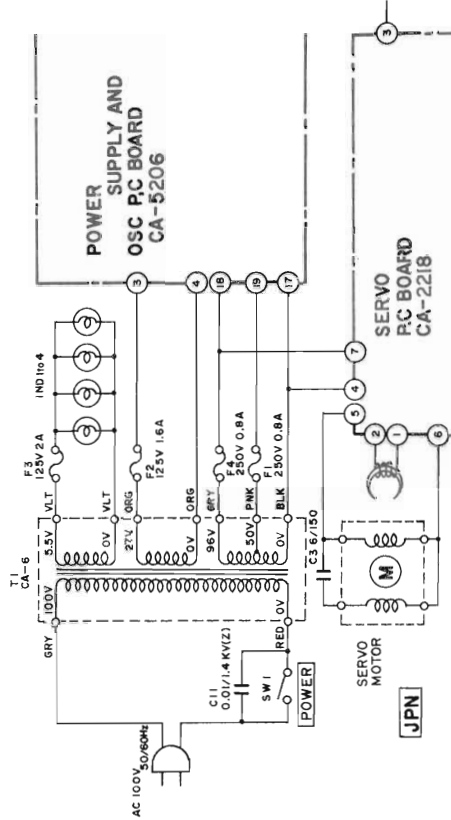
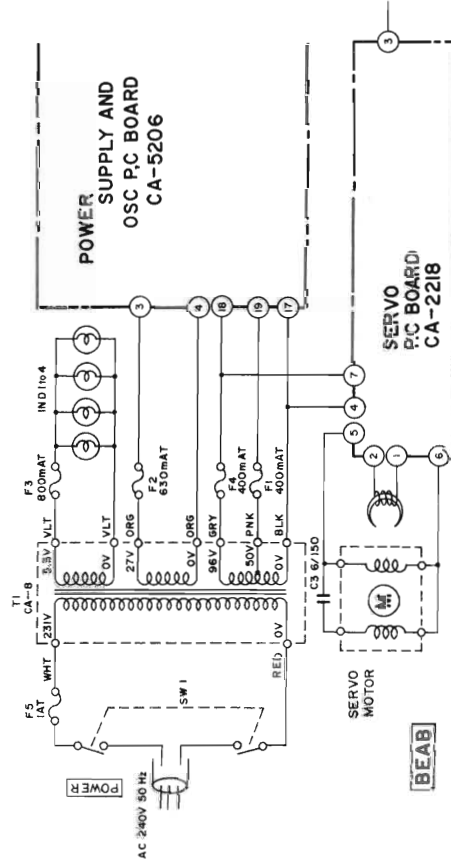
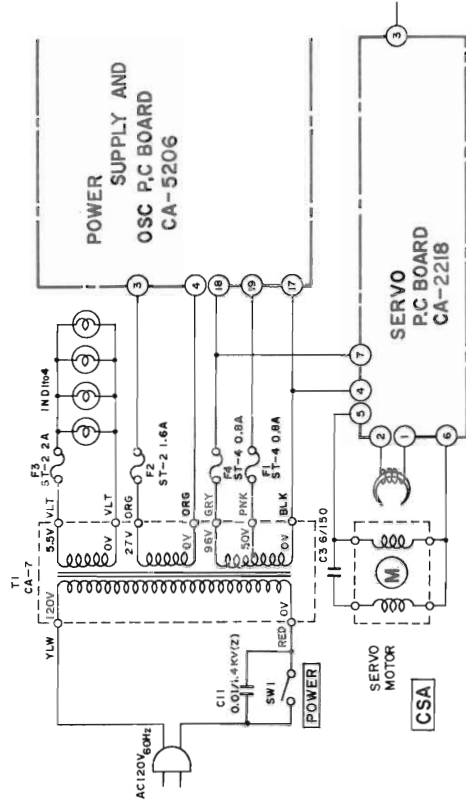
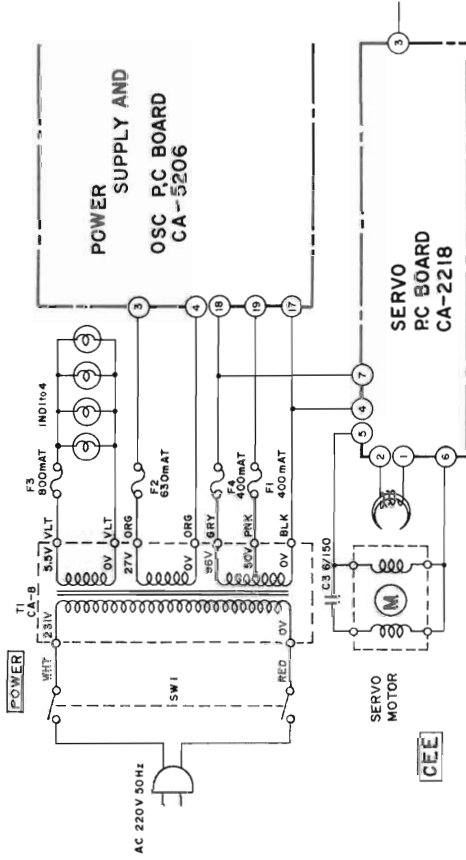
NOTES

1. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS (1/K Ω)
2. * MARK INDICATES LOW LEAKAGE
CAPACITORS
3. NL INDICATES NOISE LESS RESISTORS

GXC-7400 PRE AMP
SCHEMATIC DIAGRAM
NO. 3-2 1521651A

NO. 3-2 1521651A

GXC-740D



NOTE
POWER TRANSFORMER IS DIFFERENT
ACCORDING TO AREA

GXC-740D
POWER SUPPLY
SCHEMATIC DIAGRAM
NO.3-3 1521652A



AKAI ELECTRIC CO., LTD.
AKAI TRADING CO., LTD.

(P.O. BOX 21, Tokyo International Airport, Japan)

12-14, 2-chome, Higashi-Kojiya, Ohta-ku, Tokyo, Japan

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