

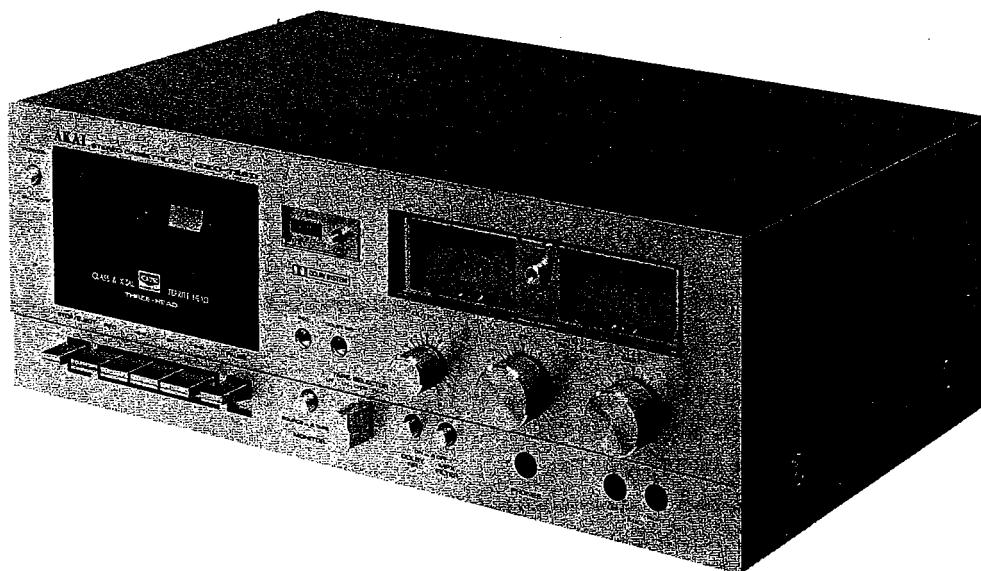
SERVICE MANUAL

PARTS LIST

GXC-725D

MODEL GXC-725D

AKAI



AKAI STEREO CASSETTE DECK

MODEL **GXC-725D**

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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

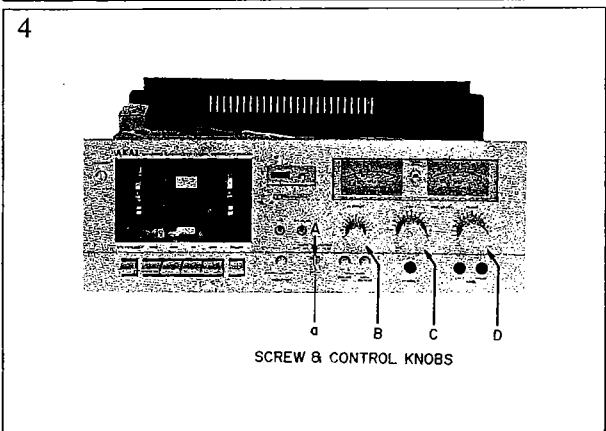
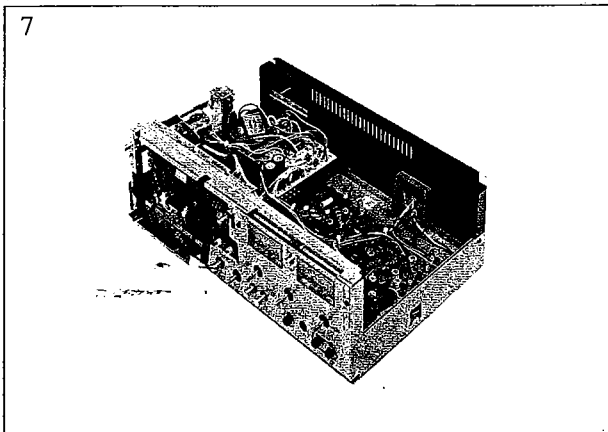
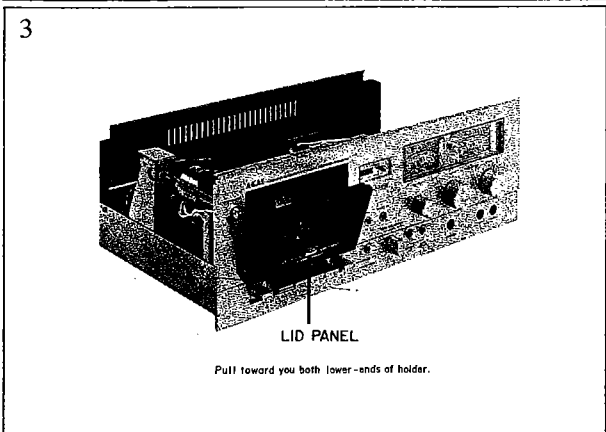
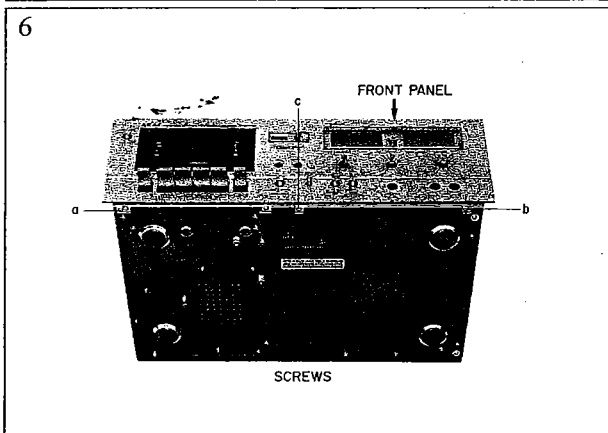
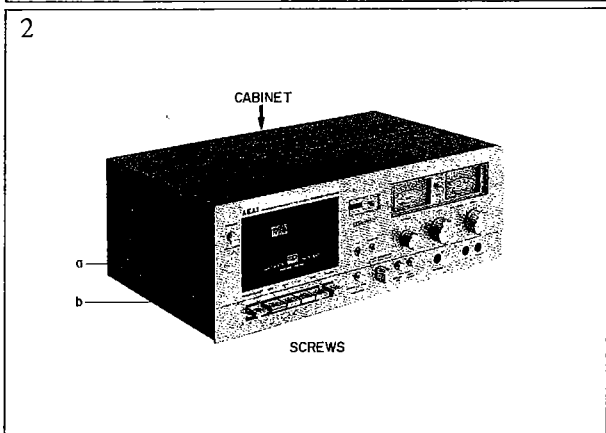
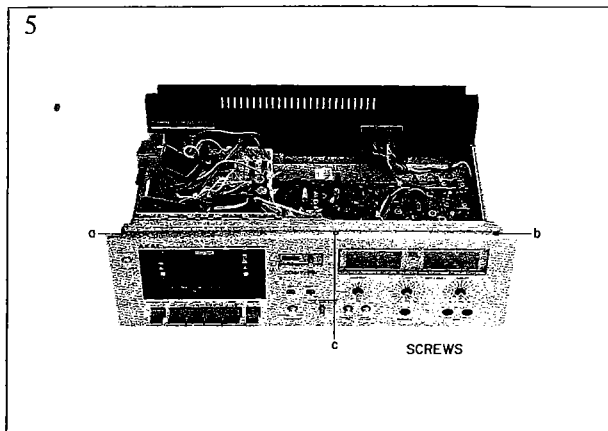
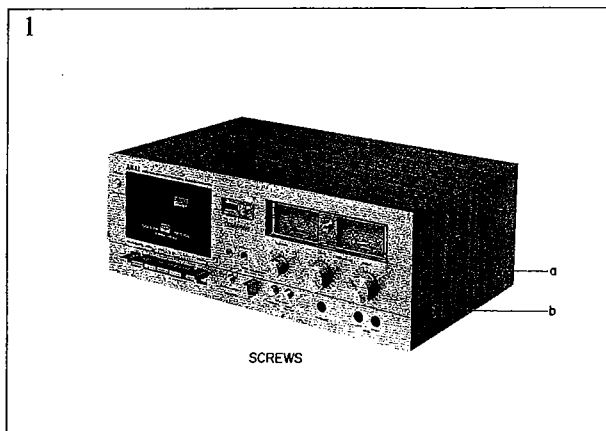
TRACK SYSTEM	4 Track, 2 Channel Stereo System
TAPE	Philips Type Cassette
TAPE SPEED	1-7/8 ips
WOW & FLUTTER	Less than 0.06% WRMS (NAB), 0.18% (DIN 45500)
FREQUENCY RESPONSE	35 to 14,000 Hz \pm 3 dB using LN tape 35 to 15,000 Hz \pm 3 dB using LH tape 35 to 16,000 Hz \pm 3 dB using CrO ₂ (SA) tape 35 to 17,000 Hz \pm 3 dB using Fe Cr tape
DISTORTION (1,000 Hz "0" VU)	Less than 1.2% using LN tape, 1.2% using LH tape, 1.5% using CrO ₂ (SA), 1.5% using FeCr tape
SIGNAL TO NOISE RATIO	Better than 50 dB using LN tape, 50 dB using LH tape, 51 dB using CrO ₂ (SA) tape, 51 dB using FeCr tape (measured via tape with peak recording level of +5 VU) Dolby N.R. switch ON: Improves up to 10 dB above 5 kHz.
ERASE RATIO	Better than 70 dB
BIAS FREQUENCY	100 kHz
HEADS	GX recording head, GX playback head, and erase head (3 head system)
MOTOR	(1): Electronically speed controlled DC motor
FF & REWIND TIME	90 sec using a C-60 cassette tape
OUTPUT JACKS	Line (2): 410 mV (0 VU) Required load impedance: more than 20 kohms Phone (1): 100 mV/8 ohms
INPUT JACKS	Microphone (2): 0.25 mV (Input impedance 2.2 kohms) Required microphone impedance: 600 ohms Line (2): 70 mV (Input impedance 100 kohms)
SEMICONDUCTORS	Transistors: 34, Diodes: 32, FETs: 2, ICs: 4
POWER REQUIREMENTS	CSA, UL & LA models: 120 V/60 Hz JPN models: 100 V 50/60 Hz CEE and U/T models: 110-120/220-240 V (switchable) 50/60 Hz Other models: 110/120/220/240 V (switchable) 50/60 Hz
DIMENSIONS	440 (W) x 165 (H) x 285 (D) mm, (17.3 x 6.5 x 11.2")
WEIGHT	6.9 kg (15.2 lbs)

* For improvement purpose, specifications and design are subject to change without notice.

* "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. Reassemble in reverse order.



III. CONTROLS

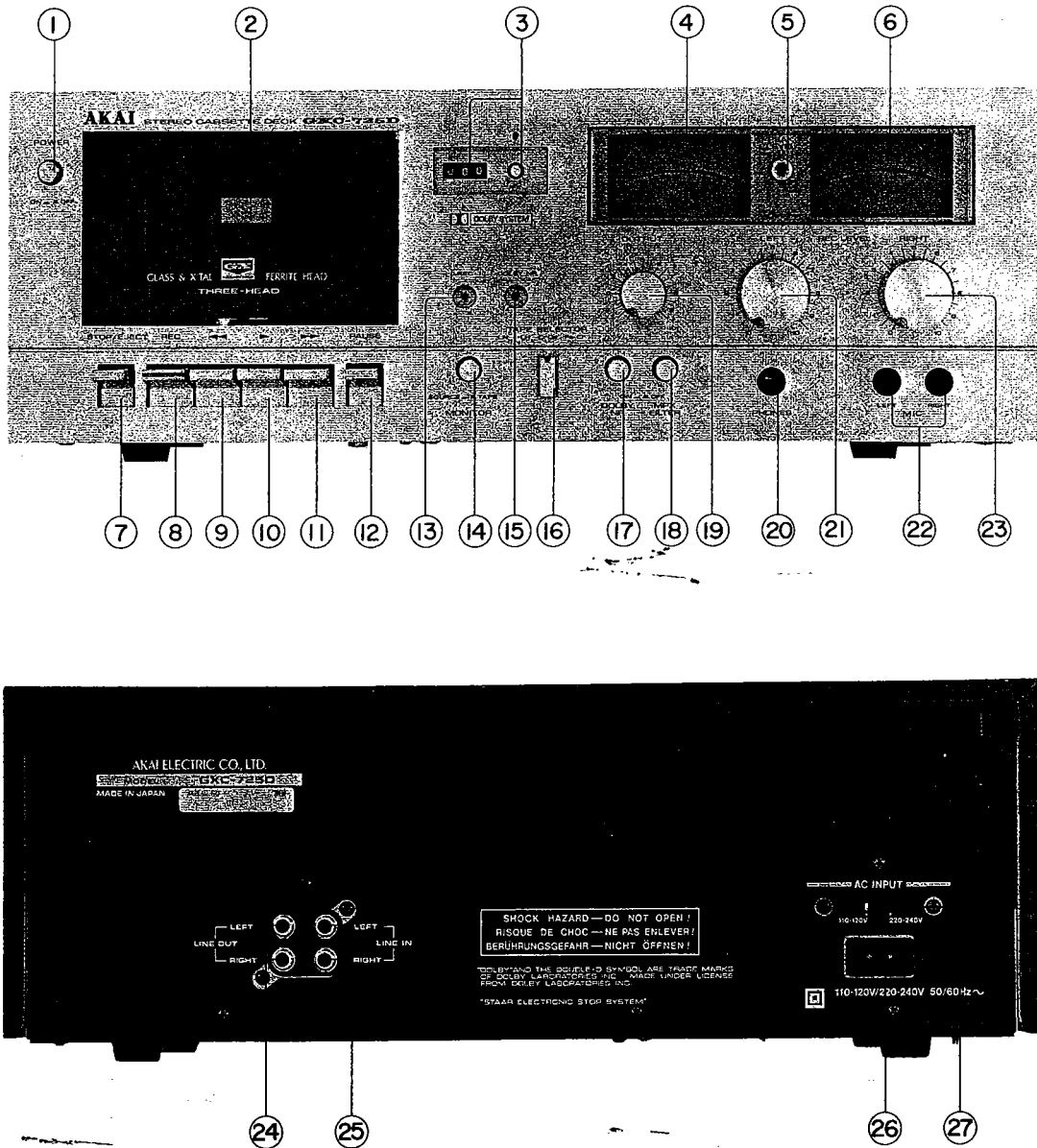


Fig. 1 Controls

- | | |
|-----------------------------------|--|
| 1. POWER SWITCH | 15. DOLBY N.R. INDICATOR LAMP |
| 2. CASSETTE RECEPTACLE | 16. TAPE SELECTOR |
| 3. INDEX COUNTER AND RESET BUTTON | 17. DOLBY N.R. SWITCH |
| 4. LEFT VU METER | 18. MPX FILTER SWITCH |
| 5. PEAK LEVEL INDICATOR | 19. OUTPUT LEVEL CONTROL |
| 6. RIGHT VU METER | 20. HEADPHONE JACK |
| 7. STOP/EJECT KEY | 21. LEFT CHANNEL RECORDING LEVEL CONTROL |
| 8. RECORDING KEY | 22. MICROPHONE JACK (Left and Right) |
| 9. REWIND KEY | 23. RIGHT CHANNEL RECORDING LEVEL CONTROL |
| 10. PLAY KEY | 24. LINE OUTPUT JACKS (Left and Right) |
| 11. FAST FORWARD KEY | 25. LINE INPUT JACKS (Left and Right) |
| 12. PAUSE KEY | 26. AC INLET CONNECT WITH AN APPROPRIATE POWER CORD. |
| 13. RECORDING INDICATOR LAMP | 27. AC INPUT VOLTAGE SELECTOR |
| 14. TAPE MONITOR SWITCH | |

IV. PRINCIPAL PARTS LOCATION

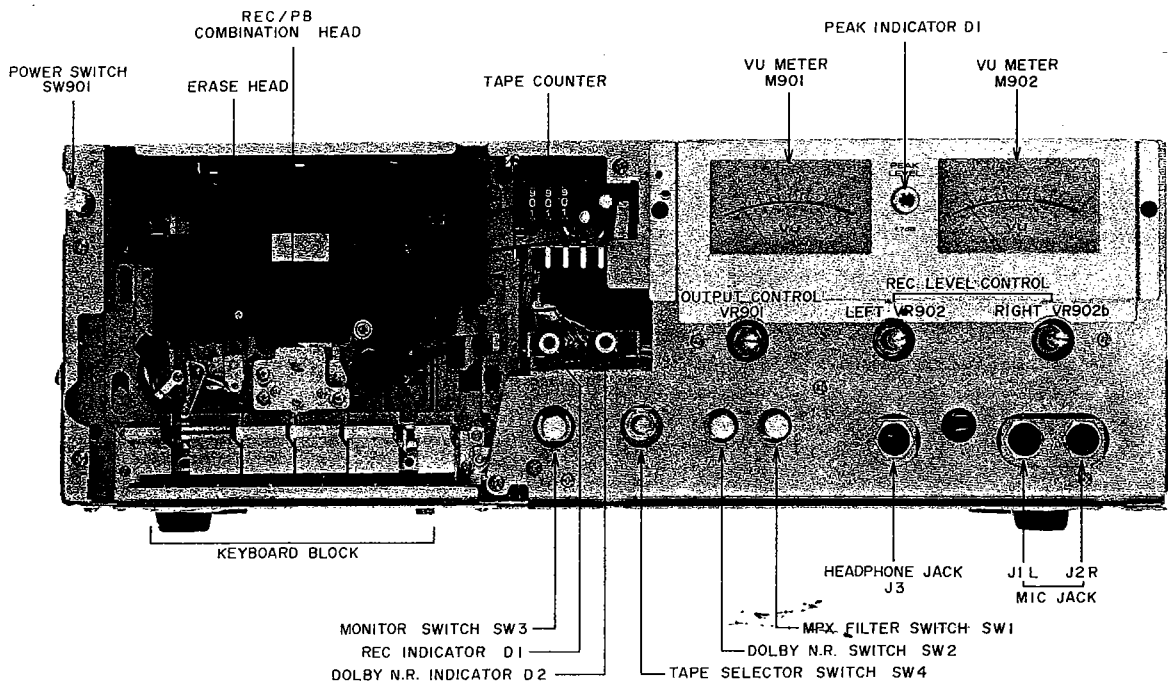


Fig. 2 Front View

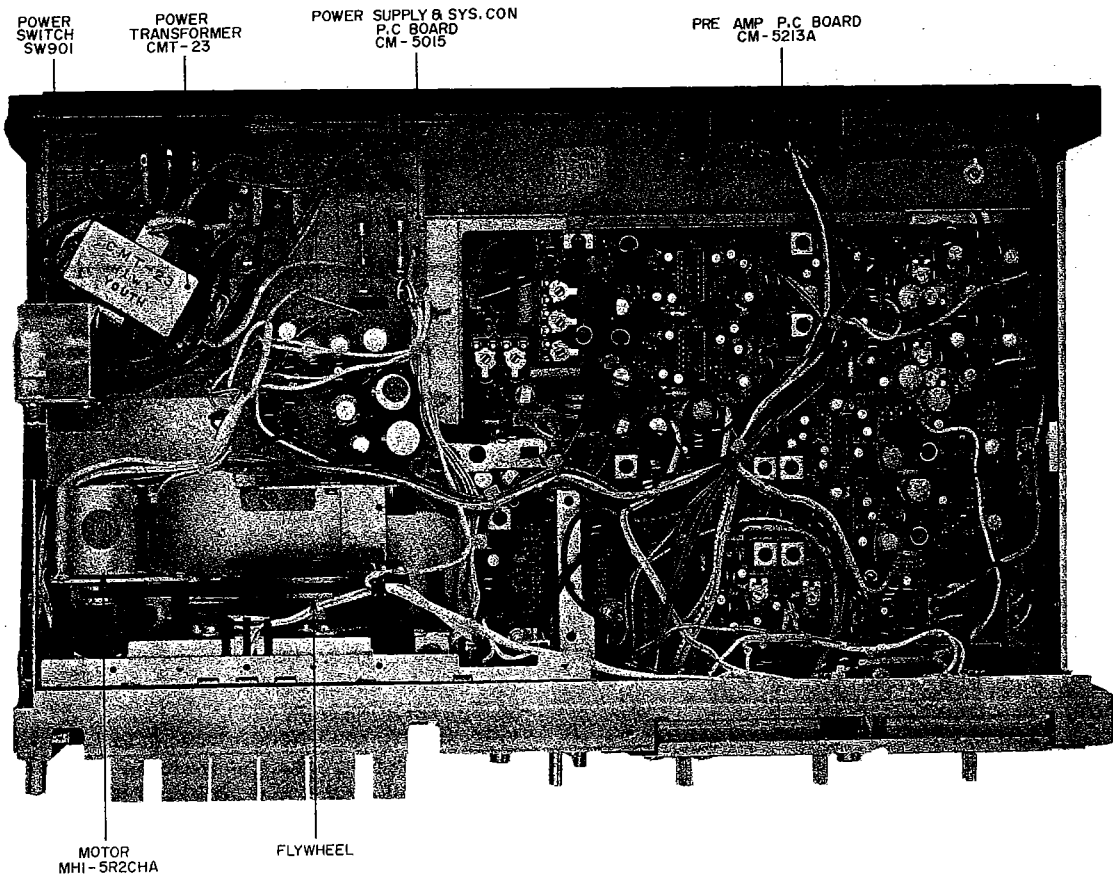


Fig. 3 Top View

V. MECHANISM ADJUSTMENT

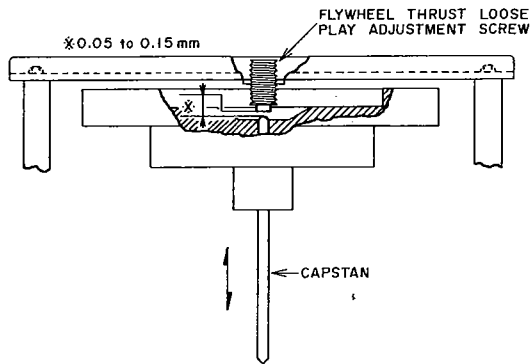


Fig. 4 Flywheel Thrust Loose Play Adjustment

1. FLYWHEEL THRUST LOOSE PLAY ADJUSTMENT

Adjust by turning flywheel thrust loose play adjustment screw to obtain a 0.05 – 0.15 mm of loose play when the flywheel is moved as indicated by the arrow mark.

Paint lock the adjustment screw.

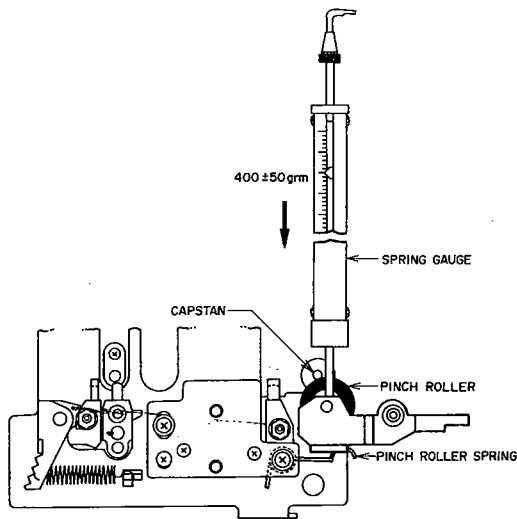


Fig. 5 Pinch Roller Pressure Measurement

2. PINCH ROLLER PRESSURE MEASUREMENT (Refer to Fig. 5)

At playback mode, push the pinch roller with a spring gauge until the pinch roller separates from the capstan by about 1 mm to 2 mm and then gently return. Take a reading of the spring gauge indication at the moment the pinch roller touches the capstan and begins to rotate.

Specified Pinch Roller Pressure: 400±50 gm
In case specified pressure cannot be attained, replace the pinch roller spring.

3. TAKE-UP TORQUE AT VARIOUS MODES

Playback mode: 35 to 55 grm-cm

Fast Forward mode: 70 to 130 grm-cm

Rewind mode: 70 to 130 grm-cm

In case specified take-up torque cannot be attained,
Playback mode: Replace Take-up reel table
Block Comp.

Fast Forward or Rewind mode:

Replace entire supply reel
assembly

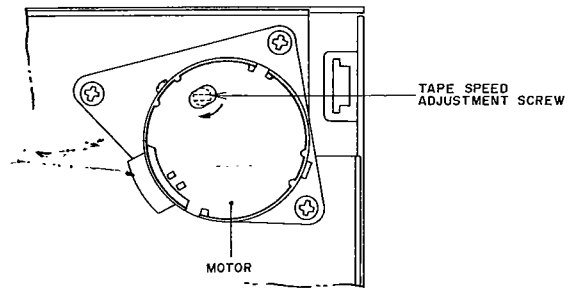


Fig. 6 Tape Speed Adjustment

4. TAPE SPEED ADJUSTMENT

(Refer to Fig. 6)

Playback a 1,000 Hz pre-recorded test tape and adjust tape speed adjustment screw to obtain a tape speed of 1,000 Hz ±2%.

VI. HEAD ADJUSTMENT

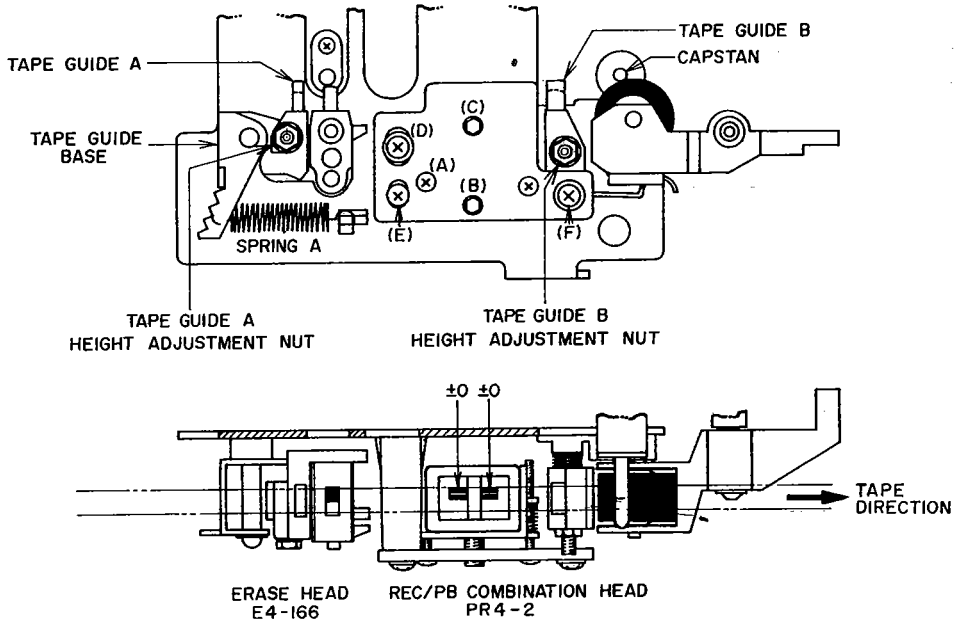


Fig. 7

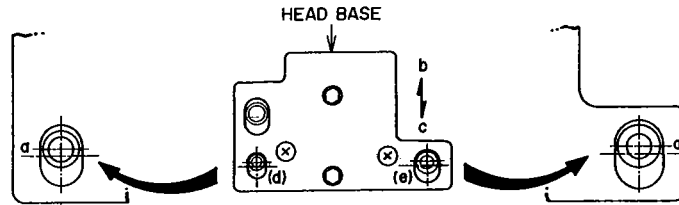


Fig. 8

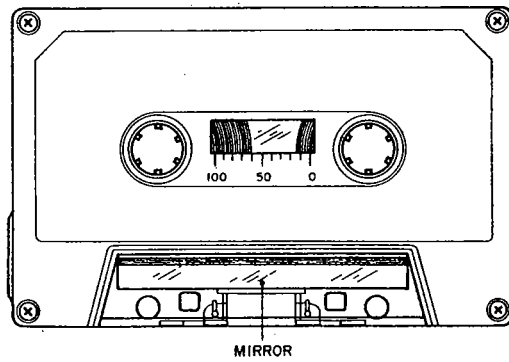


Fig. 9

1. TAPE GUIDE HEIGHT ADJUSTMENT

(Refer to Fig. 7 and Fig. 9)

- 1) When using an ordinary cassette, the tape guides and heads, etc. are not visible. As shown in Fig. 9 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, adjust tape guide A and tape guide B height with tape guide height adjustment nuts so that the tape runs smoothly and does not catch on the tape guides.

2. HEIGHT ADJUSTMENT OF RECORDING/PLAYBACK COMBINATION HEAD (Refer to Fig. 7)

- 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. 7 adjustment head height with screws (A), (B) and (C) until the upper edge of the left channel REC/PB Combination head core.

3. AZIMUTH ALIGNMENT ADJUSTMENT OF RECORDING/PLAYBACK COMBINATION HEAD (Refer to Fig. 7)

- 1) The cores of recording and playback heads are mounted in a single head holder to form the recording/playback combination head otherwise known as the New GX Head. Both recording and playback head cores move when azimuth alignment is adjusted. To obtain optimum playback head core azimuth alignment, follow the instructions 2) - 5) carefully.
- 2) Playback a 10 kHz azimuth alignment adjustment test tape and adjust the adjustment screw (A) until the output level of both channels are at maximum.
- 3) Invert cassette and see whether there is an output level difference from the above. If there is a difference, repeat 2) and readjust.
- 4) Record a 10 kHz, -20 VU signal from the audio frequency oscillator.
- 5) Rewind and check for any fluctuation in the output level at playback.

4. ADJUSTMENT OF THE RECORDING/PLAYBACK COMBINATION HEAD PROJECTION (Refer to Fig. 7 and Fig. 8)

This adjustment is unnecessary unless the head base is moved on purpose as in the case of head replacements, etc.

- 1) Fix the head base with screws (D) (E) and (F). In doing so, the center of the shaft should be placed at points (a) of head base holes (d) and (e) as shown in Fig. 8. Conduct adjustments 2 and 3 above.
- 2) Record a 10 kHz, -20 VU signal from the audio frequency oscillator.
- 3) Rewind and check for level fluctuation at playback.
- 4) Measure the wow and flutter characteristics and confirm that it is less than 0.06% (WRMS).
- 5) If there is a level fluctuation, the projection of the recording/playback combination head is too shallow and the head base must be moved slightly toward "b" in Fig. 8. If the wow and flutter characteristics are poor, the recording/playback combination head projection is too deep and the head base must be moved slightly toward "c". Repeat 2) - 4) above until optimum position is 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.
4. When a mirror installed cassette test tape as shown in Fig. 9 is required, it can be ordered from AKAI Electric Co.
5. The position where spring (A) meets the tape guide base is adjusted at the place of manufacture and readjustment is unnecessary.

VII. AMPLIFIER ADJUSTMENT

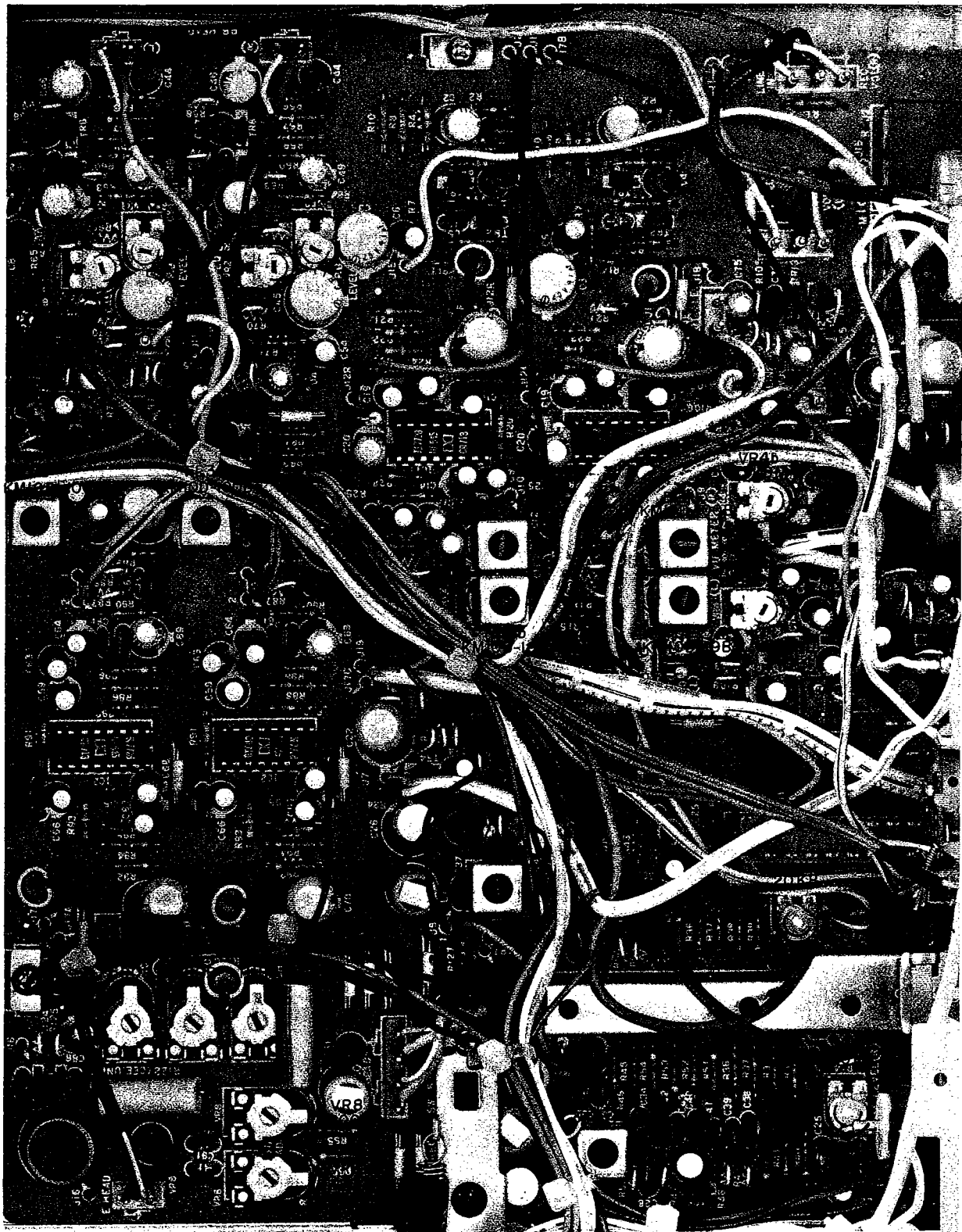


Fig. 10 Pre Amp P.C Board CM-5213A

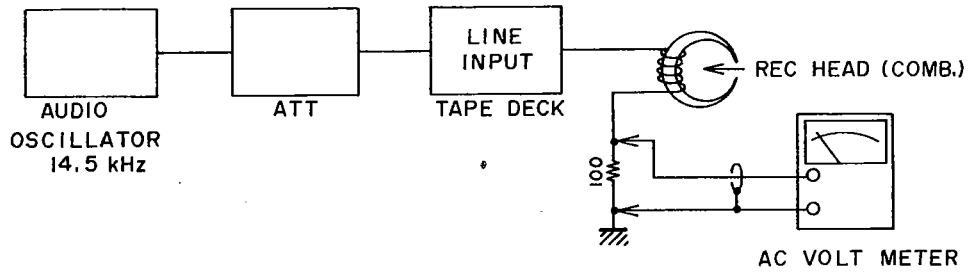


Fig. 11 Instruments Connections

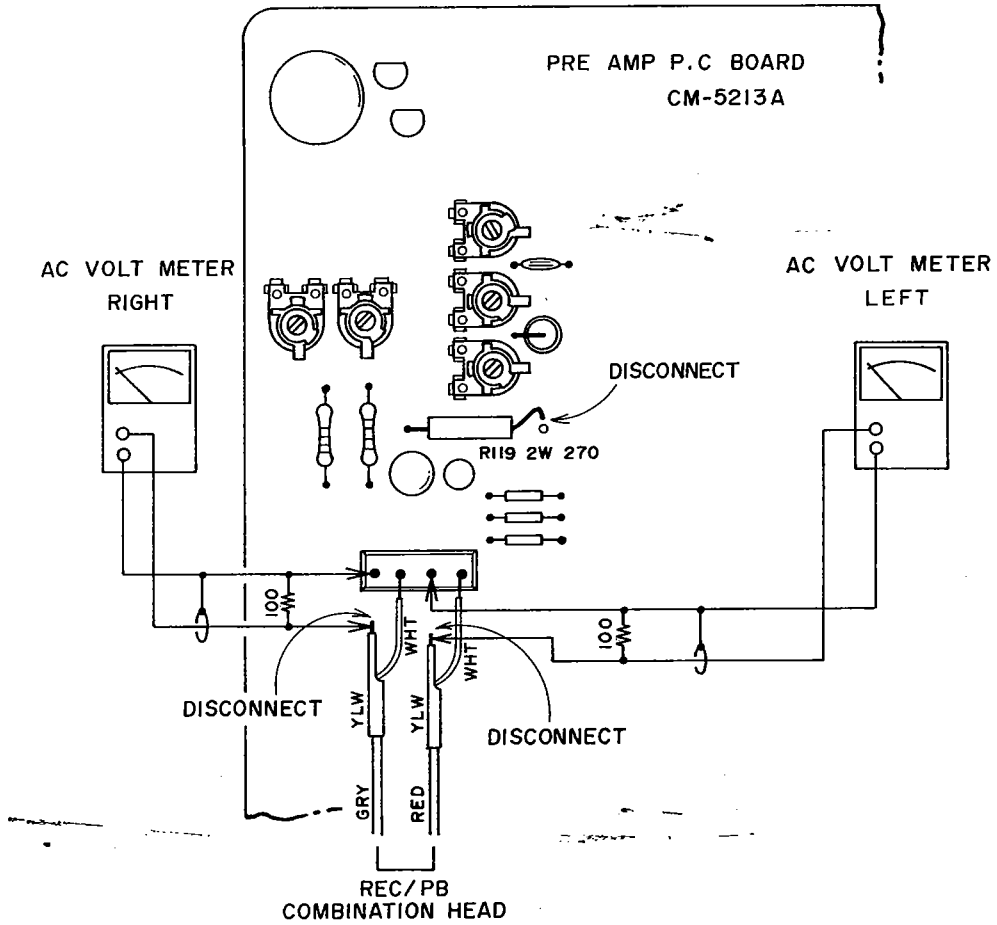


Fig. 12 Rec Peaking Adjustment

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Point	Result	Remarks
1	Playback Level Adjustment	333 Hz, 0 VU Test Tape	PLAY	VR3 50 kB	-5.5 ±0.5 dBm	Set Monitor SW. to "TAPE".
2	VU Meter Sensitivity Adjustment	333 Hz, 0 VU Test Tape	PLAY	VR4 5 kB	0 VU Indication	
3	Playback Equalizer Adjustment	10 kHz Test Tape	PLAY	VR2 10 kB	-19 dBm	
4	Recording Level Adjustment	Low Noise blank tape, 1,000 Hz 0 VU recording	REC/ PLAY	VR1 20 kB	-5.5 ±0.5 dBm	
5	LN Position Frequency Response Adjustment	LN blank tape, 1,000 Hz, 10,000 Hz, -20VU recording	REC/ PLAY	VR8 200 kB	1,000 Hz to 10,000 Hz flat response	
6	LH Position Frequency Response Adjustment	LH blank tape, 1,000 Hz, 10,000 Hz -20VU recording	REC/ PLAY	VR5 1 kB	1,000 Hz to 10,000 Hz flat response	Set Tape Selector to "LH". (Refer to NOTE 4)
7	CrO ₂ Position Frequency Response Adjustment	CrO ₂ blank tape, 1,000 Hz, 10,000 Hz, -20VU recording	REC/ PLAY	VR6 200B	1,000 Hz to 10,000 Hz flat response	Set Tape Selector to "CrO ₂ ". (Refer to NOTE 4)
8	Fe-Cr Position Frequency Response Adjustment	Fe-Cr Position tape, 1,000 Hz 10,000 Hz, -20VU recording	REC/ PLAY	VR7 500B	1,000 Hz to 10,000 Hz flat response	Set Tape Selector to "Fe-Cr". (Refer to NOTE 4)
9	Rec Peaking Adjustment	14.5 kHz from an oscillator	REC	VL1 33Y-740	Maximum AC Voltmeter indication	(Refer to NOTES 7.8 and Figs. 11, 12)
10	Rec Amp Bias Leak Adjustment	100 kHz from an oscillator	REC	FL1 KM-10D 100B	Minimum AC Voltmeter indication	Set Monitor Switch to "SOURCE".
11	19 kHz Filter Adjustment	19 kHz from an oscillator	REC	FL2 KM-10D 19B	Minimum AC Voltmeter indication	Set MPX Filter switch to "ON". (Refer to NOTE 8)
12	PB Amp Bias Leak Adjustment		REC	FL3 KM-10D 100B	Minimum AC Voltmeter indication	Set Monitor switch to "TAPE".

Chart 1

-
- NOTES:
1. Except for Steps 6 thru 8, set Tape Selector to LN position.
 2. Set Dolby N.R. Switch to OFF.
 3. Except for Step 12 set MPX Filter Switch at OFF position.
 4. If a flat characteristic cannot be obtained from 1,000 Hz to 10,000 Hz at LH, CrO₂, or Fe-Cr positions, fine adjust at VR5 (LH), VR6 (CrO₂) or VR7 (Fe-Cr) respectively.
 5. 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.
 6. Use the following cassette measuring tape:
 - LN Tape: Fuji FL C-60
 - LH Tape: Maxell UD C-60
 - CrO₂ Tape: TDK SA C-60
 - Fe-Cr Tape: SONY Duad C-60
 7. Stop recording bias oscillator while making Rec Peaking Adjustment (Refer to Figs. 11, 12).
 8. Unless the core is moved intentionally this adjustment is not necessary.

VIII. DC RESISTANCE OF VARIOUS COILS

Parts	Designation	DC Resistance
GX Recording/Playback Combination Head	PR4-2	REC: 22 ohms $\pm 5\%$ PB: 250 ohms $\pm 5\%$
Erase Head	E4-166	2.5 ohms
Automatic Stop Plunger	0730PHTI	15 ohms $\pm 10\%$

Chart 2

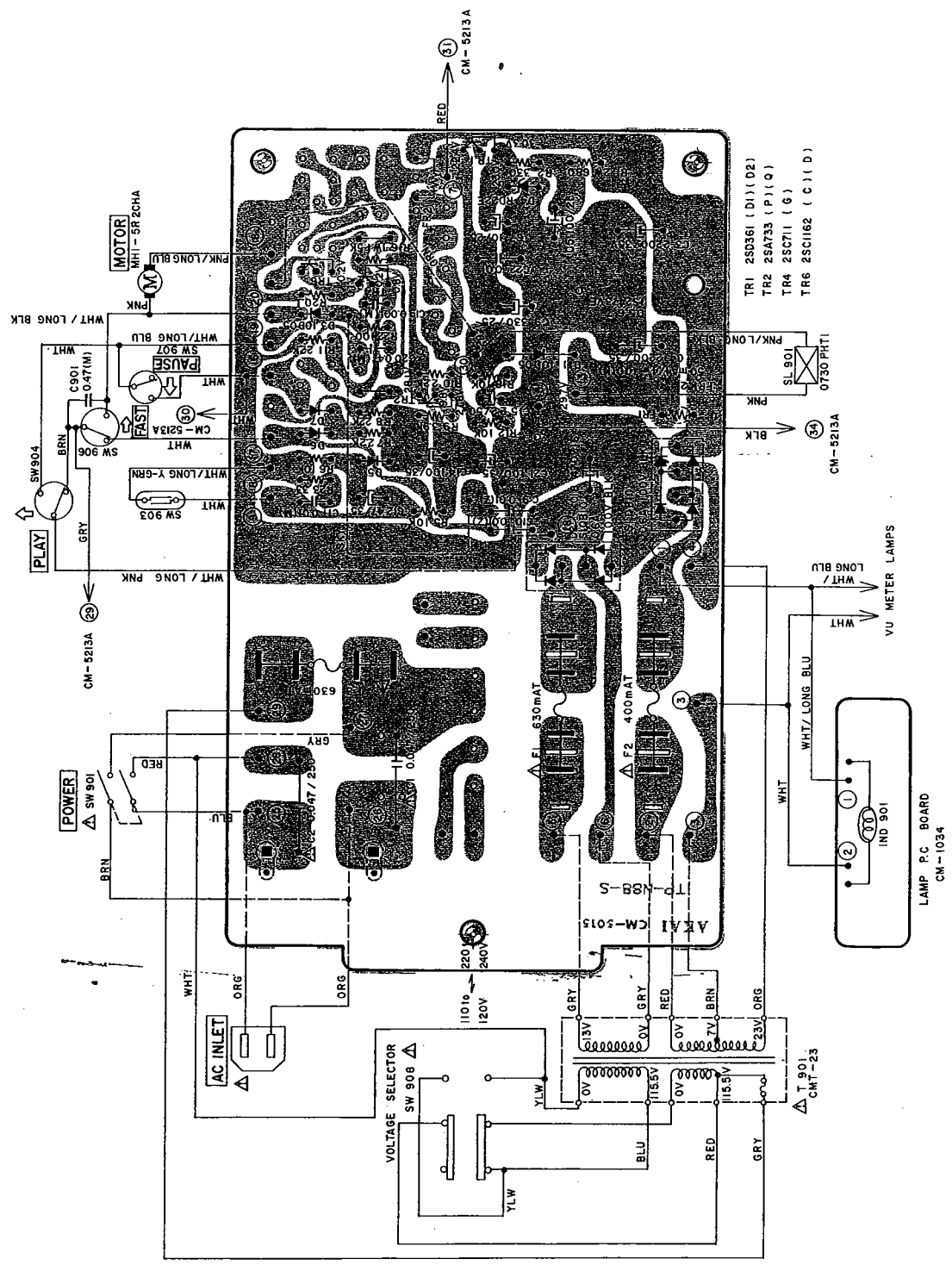
IX. CLASSIFICATION OF VARIOUS P.C BOARDS

1. RELATION OF P.C BOARD TITLE AND IDENTIFICATION NUMBER

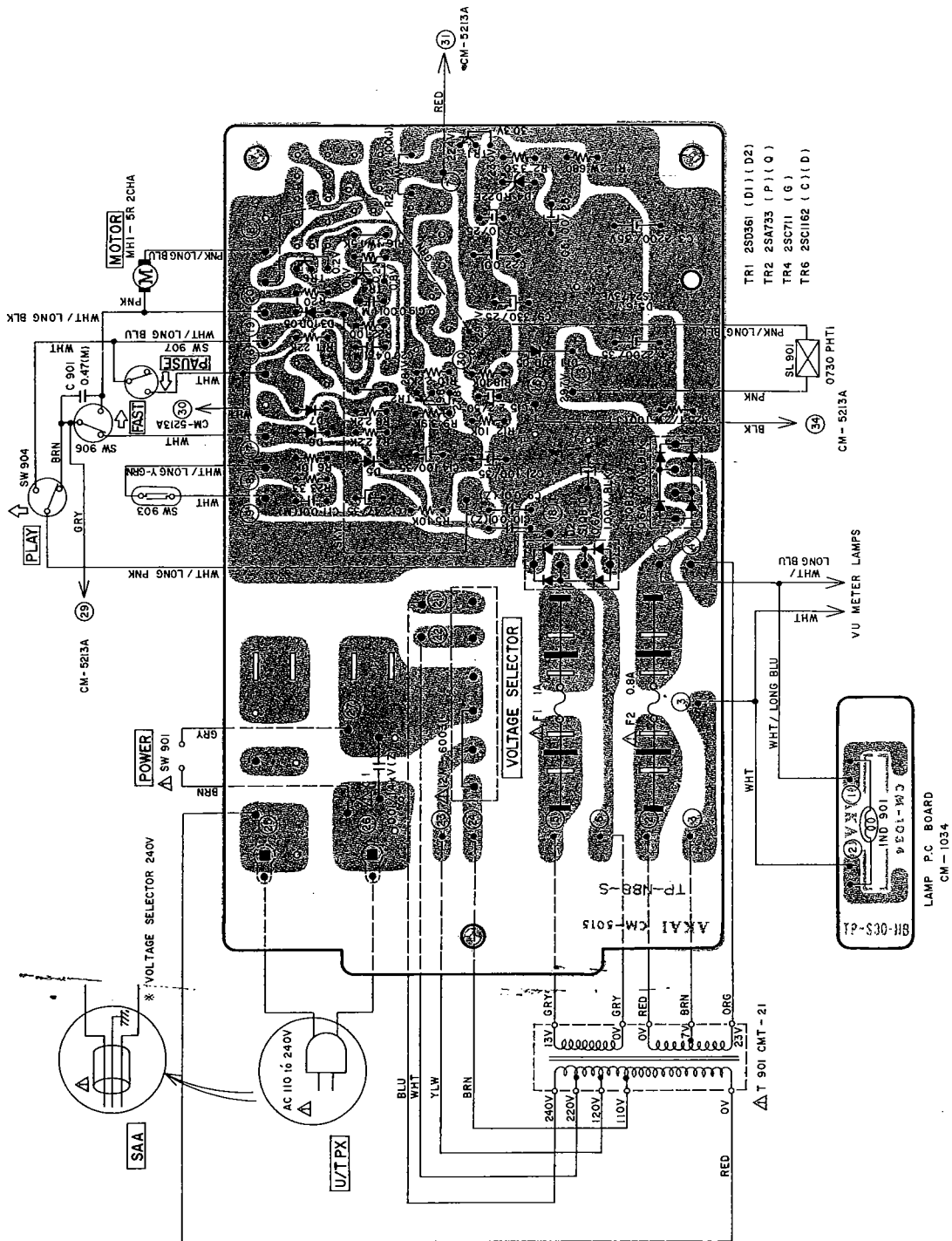
P.C Board	Number of P.C Board
Pre Amp P.C Board	CM-5213 A
Power Supply & Sys. Con P.C Board	CM-5015
LED (1) P.C Board	CM-5213B
LED (2) P.C Board	CM-5213C
Lamp P.C Board	CM-1034

Chart-3

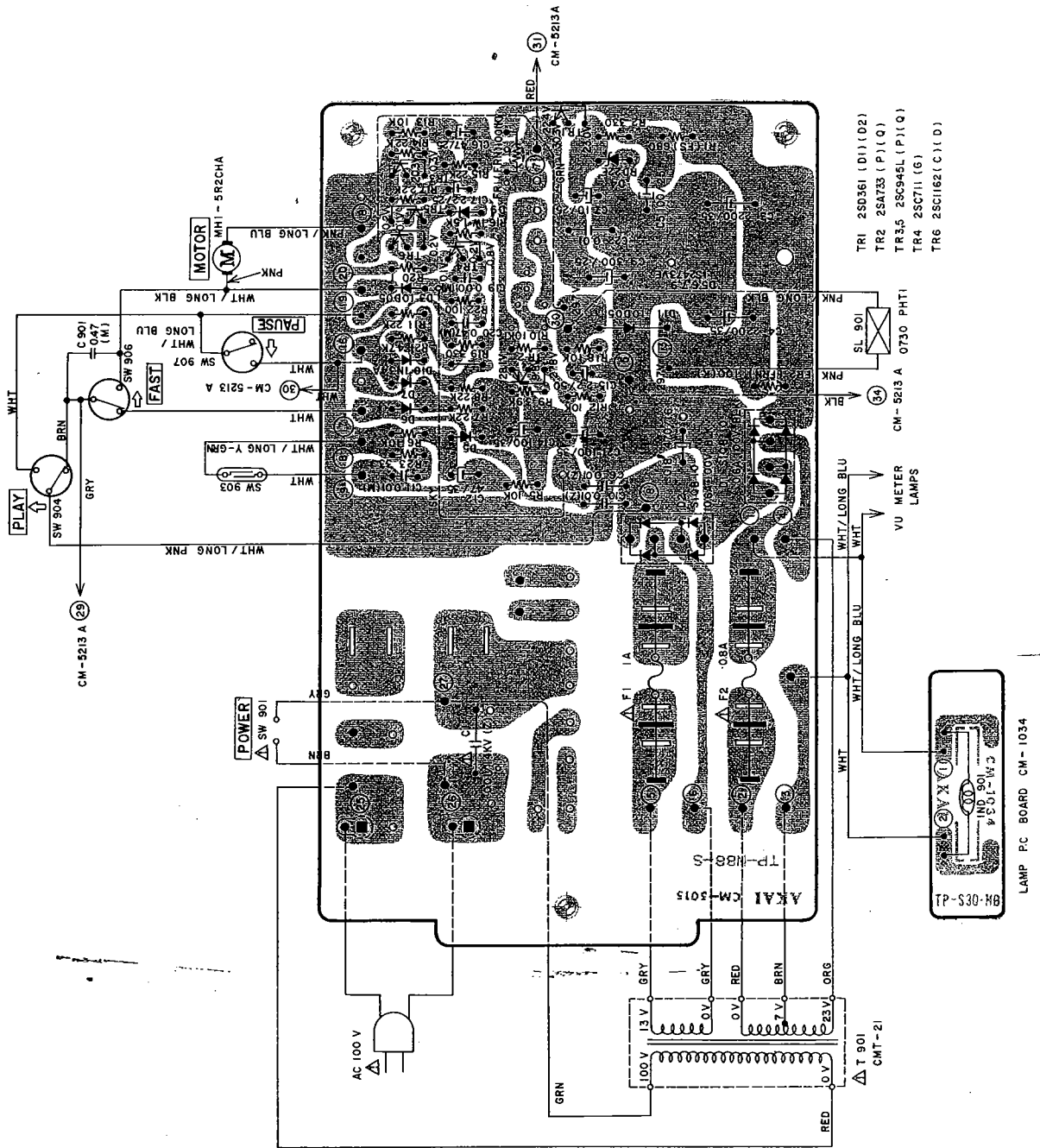
2) POWER SUPPLY & SYS. CON P.C BOARD CM-5015 AND LAMP P.C BOARD CM-1034 (U/T, CEE)



3) POWER SUPPLY & SYS. CON P.C BOARD CM-5015 AND LAMP P.C BOARD CM-1034 (U/T PX, SAA)



5) POWER SUPPLY & SYS. CON P.C BOARD CM-5015 AND LAMP P.C BOARD CM-1034 (JPN)



SECTION 2

PARTS LIST

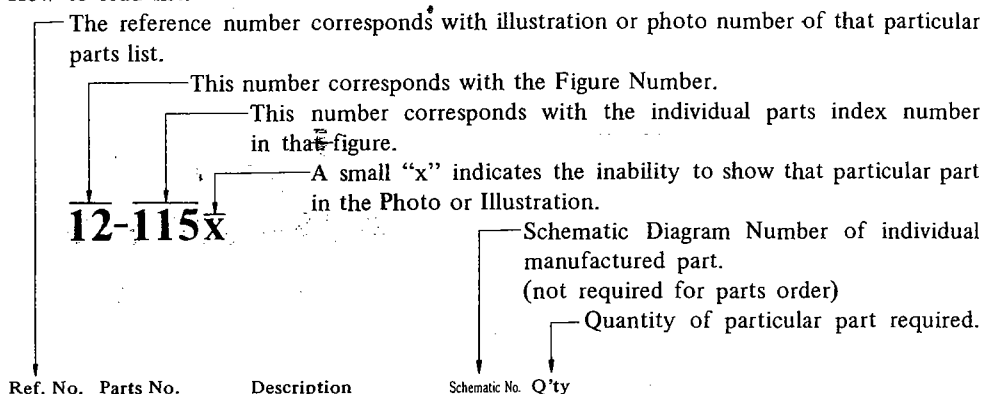
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(2) POWER SUPPLY & SYS. CON P.C BOARD (CM-5015) BLOCK	33
6. POWER/AMP CHASSIS BLOCK	34
7. FINAL ASSEMBLY BLOCK	36
8. LIST OF INTERCHANGEABLE SEMICONDUCTORS	38
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Resistor and Capacitor which is not 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.



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.

CAUTION:

1. When placing an order for parts, be sure to list the parts no., model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because parts number and parts unit supply in the Preliminary Service Manual (Basic Parts List) may be partially changed, please use this parts list for all future reference.

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMEMNDED PARTS.

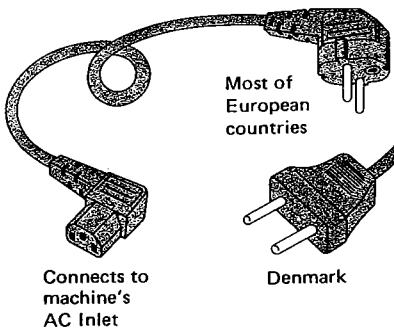
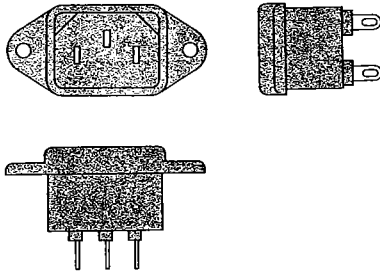
AVERTISSEMENT: Δ IL INDIQU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

AC INLET SYSTEM

This model is equipped with an AC INLET SYSTEM. Please refer to the AC INLET SYSTEM CHART below for the specific type. By the AC INLET SYSTEM, AC (mains) cord can be connected to and disconnected from the model because the model is provided with socket exclusively for AC (mains) cord on its main body. Please note, however, that certain models are not equipped with this system and has a built-in AC (mains) cord as before.

AC INLET SYSTEM CHART

CLASS I

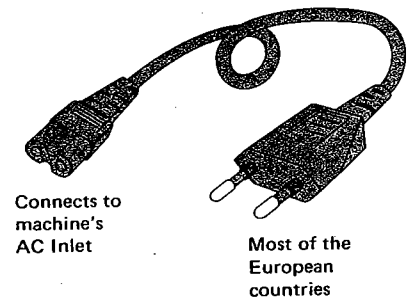
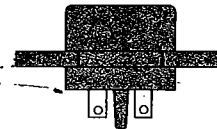


CLASS II

☐ This mark indicating double insulation will be attached to machine's rear panel



Picture 1
AC INLET
to be
installed
on machines



Picture 2
AC (mains)
cord

Parts List for AC (mains) Cord Set

Standard		Description	Type of AC Inlet	Parts No.
Class I	CEE	Cord Set CEE (3 cores)	3P	EW302993
	BEAB	Cord Set BEAB (3 cores)	3P	EW302994
	SAA	Cord Set SAA (3 cores)	3P	EW302996
	U/T	Cord Set U/T (3 cores)	3P	EW302646
Class II	CEE	Cord Set CEE (2 cores)	2P	EW638144
	BEAB	Cord Set BEAB (2 cores)	2P	EW302995
	SAA	Cord Set SAA (2 cores)	2P	EW302991
	U/T	Cord Set U/T (2 cores)	2P	EW302899

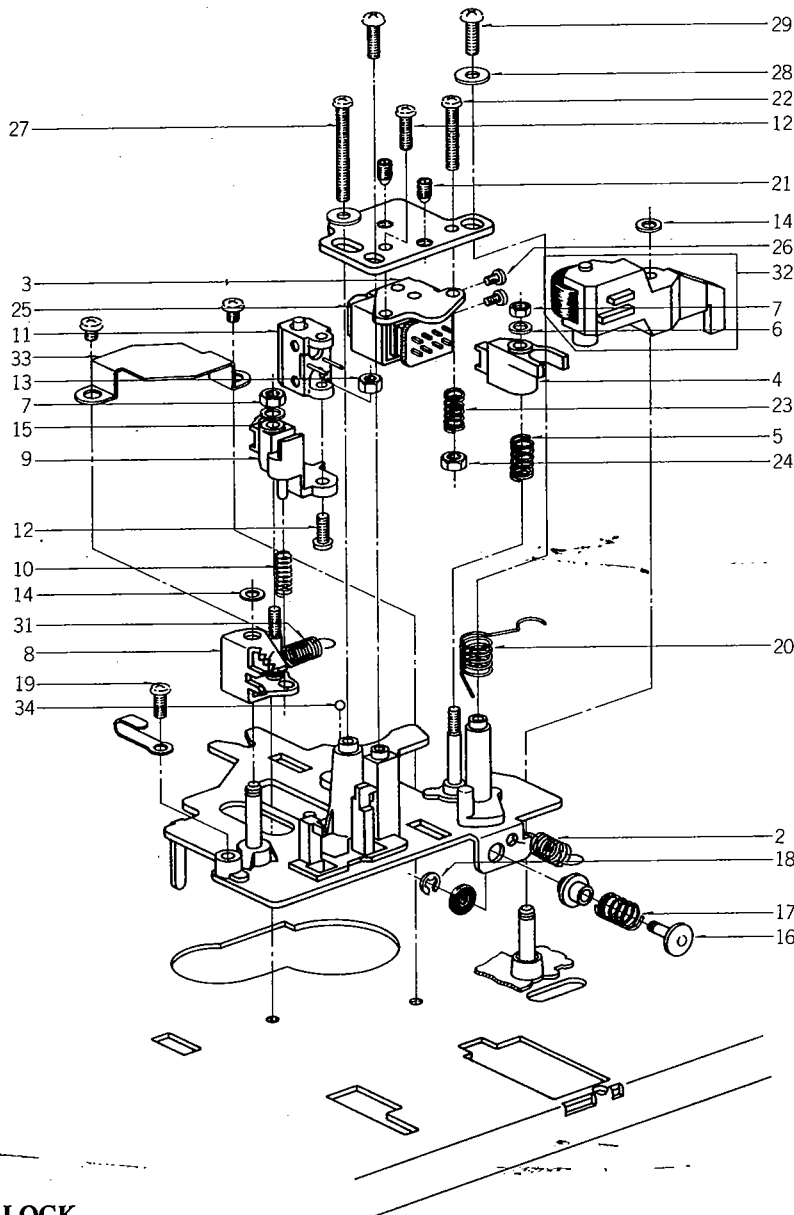
1. RECOMMENDED SPARE PARTS LIST

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

Parts No.	Description	Note
BA300246	Pre Amp P.C Board Comp. CM-5213A	U/T PX, SAA
BA300838	Pre Amp P.C Board Comp. CM-5213A	JPN
BA303607	Pre Amp P.C Board Comp. CM-5213A	CSA
BA303608	Pre Amp P.C Board Comp. CM-5213A	AAL
BA303609	Pre Amp P.C Board Comp. CM-5213A	U/T, CEE, BEAB
BA300239	Power Supply & Sys. Con P.C Board Comp. CM-5015	U/T PX, SAA
BA300240	Power Supply & Sys. Con P.C Board Comp. CM-5015	JPN
BA300242	Power Supply & Sys. Con P.C Board Comp. CM-5015	CSA
BA300243	Power Supply & Sys. Con P.C Board Comp. CM-5015	AAL
BA300244	Power Supply & Sys. Con P.C Board Comp. CM-5015	U/T, CEE, BEAB
BH300247	Head Base Block Comp.	
BK300207	Keyboard Block Comp. CM-3001	Same as GXC-709D
BL297562	Take-up Lever Part-G CM-1048	Same as GXC-709D
BL297573	Wind Arm Comp.-G CM-1049	Same as GXC-709D
BL304424	Pinch Roller Block Comp. CN-9708	
BM300213	Motor Block Comp.	Same as GXC-709D
BR297540	Take-up Reel Table Block Comp.-G CM-1046	Same as GXC-709D
BR301998	Supply Reel Table Block Comp.-G CM-1047	
BT300516	△ Power Trans. CMT-21	T901 U/T PX, SAA
BT300515	△ Power Trans. CMT-22	T901 JPN
BT300512	△ Power Trans. CMT-25	T901 CSA
BT300513	△ Power Trans. CMT-24	T901 AAL
BT303047	△ Power Trans. CMT-23	T901 U/T, CEE, BEAB
ED303046	Zener Diode RD-22E	
ED249377	LED GL-3ARI	
ED283138	LED GL-3PG1	
EI301463	Dolby IC CR-713B	
EM295828	VU Meter D34A72R	JPN
EM295817	VU Meter D34A73R	Others
EO692741	Ferri Inductor 33Y-740	VL1
E0301466	OSC Coil 28N-503	T1
ES293703	△ Push SW. SDV1P TV-5 (w/o label)	SW901 U/T PX, JPN, CSA, SAA
ES280258	△ Push SW. SDV1P TV-5 (w/label)	SW901 AAL
ES665807	△ Push SW. SDG-5P 5A/80A 250V	SW901 U/T, CEE, BEAB
ES301457	Push SW. (2 throw) SUE-24	SW1, 2
ES301458	Push SW. SUE-12	SW3
ES295784	Skeleton SW. MSW-S202U	SW907

Parts No.	Description	Note
ES301510	△ Slide SW. (B)	SW908 U/T, CEE, BEAB
ES301460	Slide SW. SSC-442A	SW5
ES301459	Rotary SW. SRZ-V084S	SW4
ES516036	Reed SW. ORD-225	SW903
ET301468	Transistor 2SC1162(D)	
ET663243	Transistor 2SC1312S(G)	
ET242684	Transistor 2SC1312S(H)	
ET539853	Transistor 2SC1344(E)	
ET623867	Transistor 2SD361 (D1) (D2)	
ET301464	FET 2SK68 (M)(N)	
EV300504	Single axial 2 throw Vol. GM-80 10 kohms x 2	VR901
EV300505	Vol. VM10R-951 100 kA	VR902, 903
HE300248	ERASE HEAD E4-166	
HP671174	REC/PB HEAD PR4-2	Same as GXC-760D
MB699118	Drive Belt (8) CG-1831	Same as GXC-709D
MB296458	Counter Belt CM-1023	Same as GXC-709D
MC295918	Counter	U/T PX
MC303163	Counter	Others
MI285928	Flywheel CM-1015	Same as GXC-709D
MZ300158	Main Case Part CM-1036	Same as GXC-709D

2. ILLUSTRATION OF HEAD BASE BLOCK

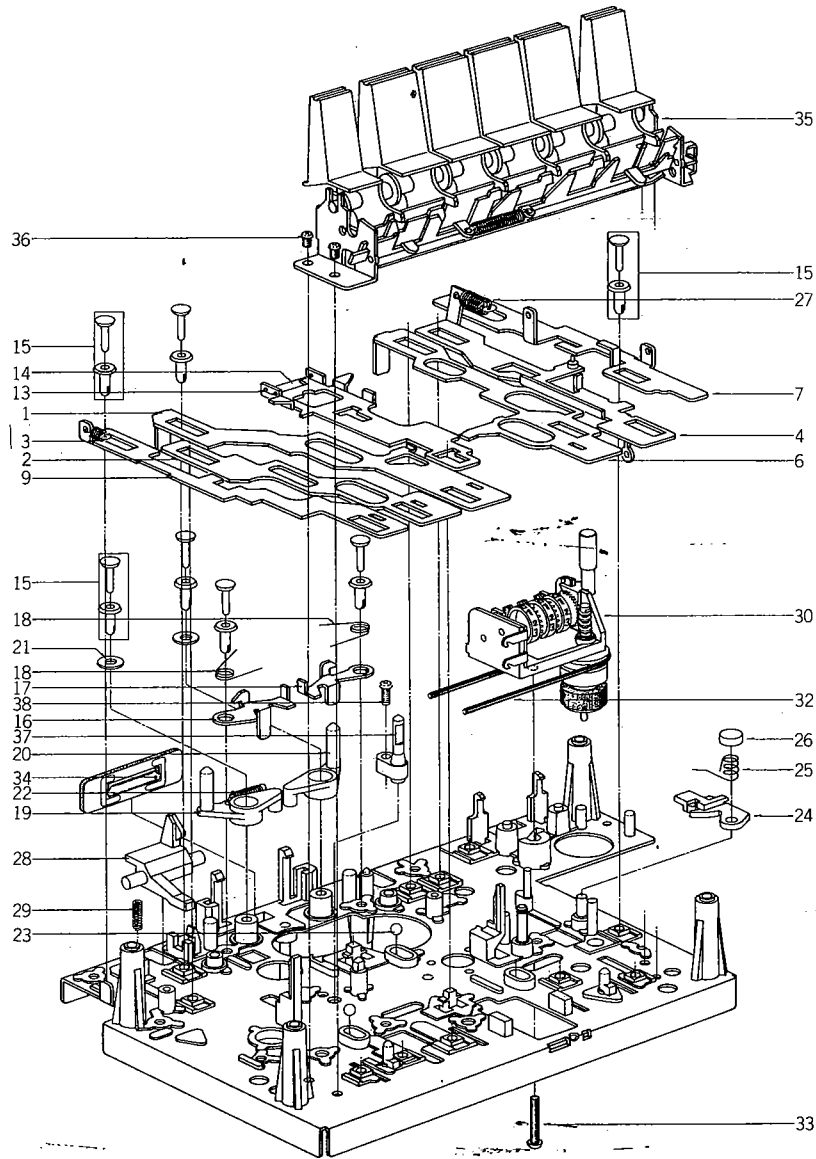


2) HEAD BASE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
2-1x	BH300247	Head Base Block Comp. GXC-725D		1	2-20	ZG301494	Pinch Roller Spring	CM-1203	1
2-2	ZG301495	Pad Spring	CM-0208	1	2-21	ZS356804	Set Screw, hexagon socket 3x4 (CUP/P.)		2
2-3	HZ302180	Head Mt. Parts	CI-0205	1	2-22	ZS303625	Screw, pan head 2.3x16		1
2-4	TC286007	Tape Guide (B)	CM-0002	1	2-23	ZG465636	Angle Adjust Spring	CG-0020	1
2-5	ZG289236	Tape Guide Spring	CM-0005	1	2-24	ZW273688	Nut M2.3, #1		1
2-6	ZW318014	Washer (BSP) D2.6x4.5x0.4t		1	2-25	HP671174	REC/PB HEAD PR4-2 CW-1, CA-2, CB		1
2-7	ZW609311	Nut M2, #1		2	2-26	ZS300626	Screw, pan head 2x2.5 (Camera Standard)		2
2-8	TC300205	Tape Guide Base Part CM-2	CM-0204	1	2-27	ZS303660	Screw, pan head 2.3x23		1
2-9	MS300319	Tape Guide	CM-0207	1	2-28	ZW452395	Washer (SPC) D2.3x7x0.5t		2
2-10	ZG300320	Guide Pin Spring	CM-0205	1	2-29	ZS296381	Tapping Screw #2, 2.3x8 (BR)		2
2-11	HE300248	ERASE HEAD E4-166		1	2-30x	EA669510	PR4-1 Terminal P.C Board	CW-0045	1
2-12	ZS487091	Screw, pan head 2.3x8		1	2-31	ZG369112	Head Base Return Spring	RCC-1035	1
2-13	ZW699052	Nut, M2.3 D2.3x5x2.3t		1	2-32	BL304424	Pinch Roller Block Comp. GXC-725D	CN-9708	1
2-14	ZW282407	Push Washer (B)	CN-1056	2	2-33	ZG286018	Head Spring	CM-1012	1
2-15	ZW438928	Washer (PBP) D3.1x4.8x0.2t		1	2-34	MV357208	Steel Ball D2		1
2-16	MS302907	Spring Shaft (B)	CM-0209	1					
2-17	ZG289596	Pressure Spring	CM-0006	1					
2-18	SZ301996	'C' Ring (2)		1					
2-19	ZS669104	Tapping Screw #2, 2.3x6 (Pan)		1					

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

3. ILLUSTRATION OF MECHA FRAME BLOCK (1)

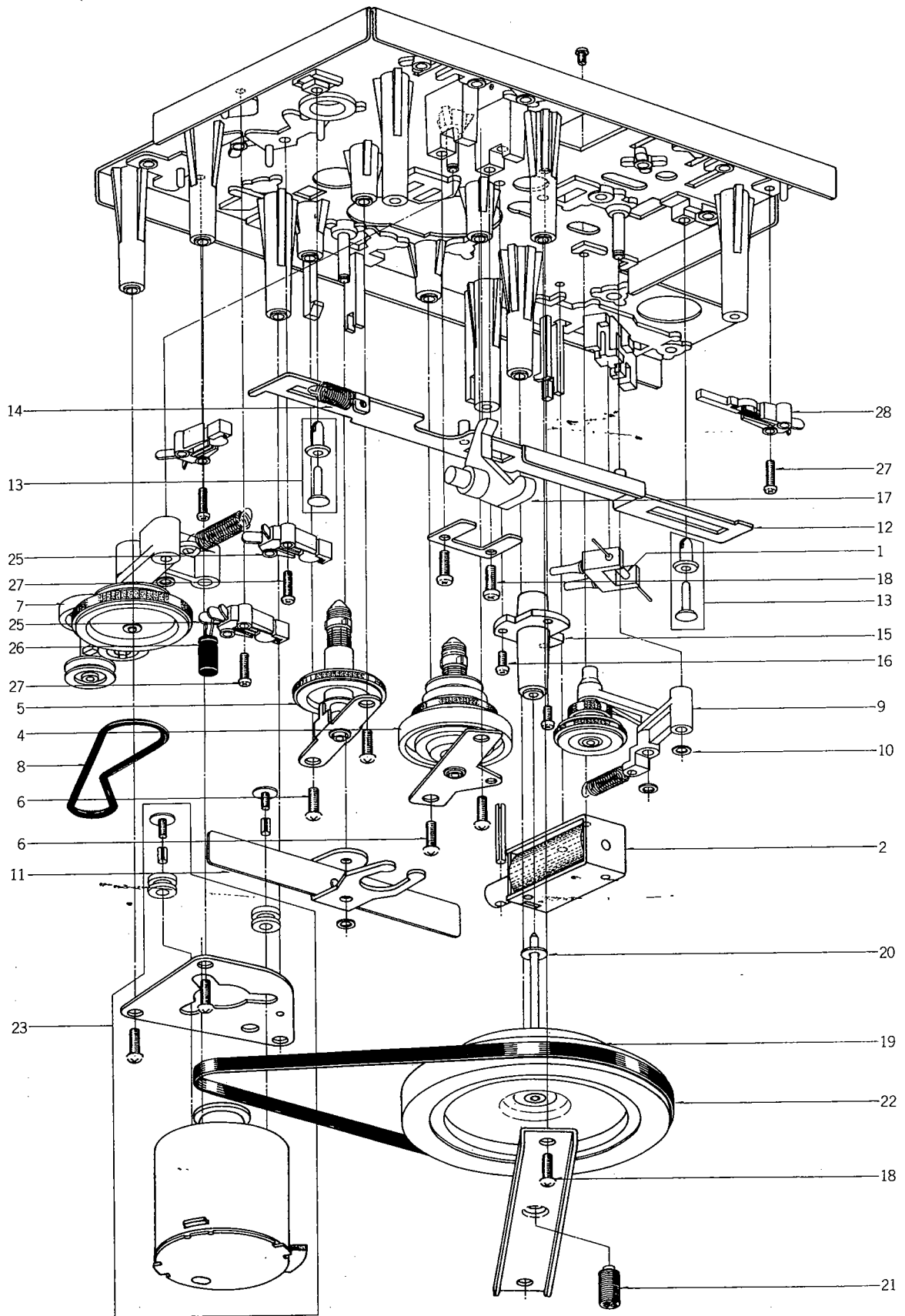


3) MECHA FRAME BLOCK (1)

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
3-1	TC285974	Rewind Slide	CM-1002	1	3-20	TC286165	Cassette Support (2)	CM-1021	1
3-2	TC285930	Rec. Slide	CM-1003	1	3-21	ZW460787	Washer (Polyslider)		
3-3	ZG300206	Eject Spring	CM-1053	1			D3.1x8x0.25t		2
3-4	ML300163	Pause Slide Part CM	CM-1005	1	3-22	ZG394378	Return Spring	CS-2106	1
3-5x	TC285917	Selector Plate (JPN)	CM-1010	1	3-23	MV296403	Steel Ball D3.5		3
3-6	TC285963	FF Slide	CM-1006	1	3-24	TC289675	Lock Cam	CM-1041	1
3-7	TC286277	Plunger Base (B)	CM-1007	1	3-25	ZG289822	Lock Cam Spring	CM-1030	1
3-8x	TC300165	Plunger Base Part CM (JPN)	CM-1007	1	3-26	TC282396	Cap	CN-1055	1
3-9	TC285941	Eject Slide	CM-1009	1	3-27	ZG303257	Pause Slide Spring	CM-1055	1
3-10x	ZG300162	Selector Spring (JPN)	CM-1051	1	3-28	TC286020	Rec Detection Piece	CM-1013	1
3-11x	ZW290283	'U' Ring 2.85M (JPN)	6-1-1	1	3-29	ZG296447	Rec Safety Spring	CM-1044	1
3-12x	ML300068	Pause Interlocking Plate Part CM (JPN)	CM-1045	1	3-30	MC295918	Counter CM-2 (U/T PX)	9-1-56	1
			CM-1008	1	3-31x	MC303163	Counter CM (JPN, U/T)	9-1-58	1
3-13	TC285952	Brake Slide	CM-1008	1	3-32	MB296458	Counter Belt	CM-1023	1
3-14	ZG289934	Cassette Support Spring	CM-1032	1	3-33	ZS422965	Screw, pan head 3x15		1
3-15	ZW295907	Nylon Rivet CM-1	2-7-59	16	3-34	EL301541	Lamp (Lead Type) 8V 50MA	28-2-65	1
3-16	TC289888	Brake (1)	CM-1017	1	3-35	BK300207	Keyboard Block Comp. CM	CM-3001	1
3-17	TC289890	Brake (2)	CM-1018	1	3-36	ZS592378	Screw, pan head 2.6x3		4
3-18	ZG286187	Brake Spring	CM-1027	2	3-37	TC305840	Head Base Part		1
3-19	ML286176	Cassette Support (1)	CM-1020	1	3-38	ZS608220	Screw, pan head 2.6x6		1

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

4. ILLUSTRATION OF MECHA FRAME BLOCK (2)



4) MECHA FRAME BLOCK (2)

Ref. No.	Parts No.	Description	Schematic No.	Qty
4-1	ES516036	Reed SW. ORD-225	25-11-1	1
4-2	EP300424	Plunger Solenoid 0730PHTI	44-1-88	1
4-3x	ZS592378	Screw, pan head 2.6x3		2
4-4	BR297540	Take-up Reel Table Block		1
		Comp.-G	CM-1046	1
4-5	BR301998	Supply Reel Table Block		1
		Comp.-G	CM-1047	1
4-6	ZS447840	Tapping Screw #2, 3x8 (BR)		4
4-7	BL297573	Wind Arm Comp.-G	CM-1049	1
4-8	MB304807	Wind Belt	CM-1057	1
4-9	BL297562	Take-up Lever Part-G	CM-1048	1
4-10	ZW282407	Push Washer (B)	CN-1056	2
4-11	BL305015	Middle Lever Comp. CM	CM-1039	1
4-12	ML300166	Wind Slide Part CM	CM-1004	1
4-13	ZW295907	Nylon Rivet CM-1	2-7-59	2
4-14	ZG580770	Pinch Roller Spring	TD-2078	1
4-15	MZ300158	Main Case Part CM	CM-1036	1
4-16	ZS479474	Screw, pan head 2.6x5		3
4-17	TC286031	Rec Lever	CM-1014	1
4-18	ZS447840	Tapping Screw #2, 3x8 (BR)		8
4-19	MI285928	Flywheel	CM-1015	1
4-20	ZW301934	Thrust Washer (Nylon)	CM-1054	1
4-21	ZG289811	Box Screw	CM-1024	1
4-22	MB699118	Drive Belt (8)	CG-1831	1
4-23	BM300213	Motor Block Comp. GXC-709D		1
4-24x	ZS608106	Screw, pan head 2x6		1
4-25	ES295773	Skeleton SW. MSW-S201U	25-1-43	2
4-26	EC487157	NP/C. (Vert. Type) 0.47 μ F(M)	50WV 24-17-17	1
4-27	ZS484918	Screw, pan head 2x8		3
4-28	ES295784	Skeleton SW. MSW-S202U	25-1-42	1

5. P.C BOARDS

(1) PRE AMP P.C BOARD (CM-5213A) BLOCK

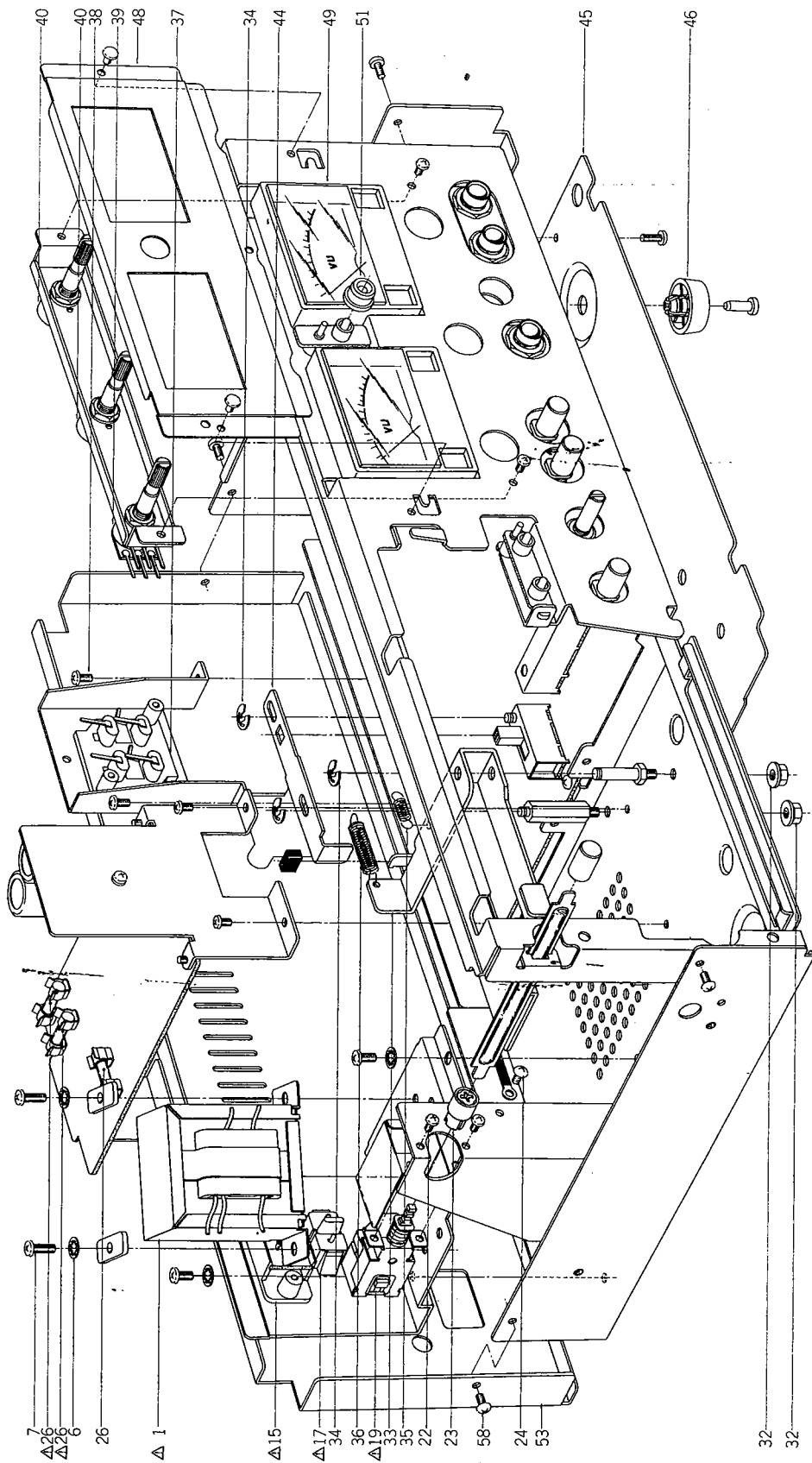
Symbol No.	Parts No.	Description	Schematic No.	Q'ty	Symbol No.	Parts No.	Description	Schematic No.	Q'ty
(1)-1	BA300246	Pre Amp P.C Board Comp. GXC-725D		1	(1)-R97	ER624756	Metal Oxide Film/R. 2W 330 ohms(J)	35-15-18	2
(1)-2	BA300838	Pre Amp P.C Board Comp. GXC-725D (JPN)		1	(1)-R119	ER265048	Metal Oxide Film/R. 2W 270 ohms(J)	35-15-8	1
(1)-3	BA303607	Pre Amp P.C Board Comp. GXC-725D (CSA)		1	(1)-R120	ER663298	Carbon/R. (Insu. Type) (F) 1/4W 330 ohms(J)	35-11-12	1
(1)-4	BA303608	Pre Amp P.C Board Comp. GXC-725D (AAL)		1	(1)-R120	ER301441	Metal Oxide Film/R. 2W 330 ohms(J) (CEE)	35-15-8	1
(1)-5	BA303609	Pre Amp P.C Board Comp. GXC-725D (CEE)		1	(1)-R121	ER281305	Carbon/R. (Insu. Type) (F) 1/4W 33 ohms(J)		
(1)-IC1,2	EI301463	Dolby IC CR-713B	45-8-225	4	(1)-R122	ER664852	Carbon/R. (Insu. Type) (F) 1/4W 220 ohms(J)	35-11-12	1
(1)-TR1	ET352146	Transistor 2SC458LG(D)	45-1-29	2	(1)-R122	ER664852	Carbon/R. (Insu. Type) (F) 1/4W 220 ohms(J)	35-11-12	1
(1)-TR2	ET663243	Transistor 2SC1312S(G)	45-1-182	2	(1)-R122	ER678576	Metal Oxide Film/R. 2W 220 ohms(J)		
(1)-TR3,4	ET399870	Transistor 2SC711(G)	45-1-67	2	(1)-R122	ER678576	Metal Oxide Film/R. 2W 220 ohms(J)		
(1)-TR5	ET539853	Transistor 2SC1344(E)	45-1-152	2	(1)-R122	ER678576	Metal Oxide Film/R. 2W 220 ohms(J)		
(1)-TR6,7	ET638504	Transistor 2SC945L(P)	45-1-85	4	(1)-C2	EC517138	Elect./C. (Vert. Type) 10μF 25 WV NL	24-20-4	2
(1)-TR8	ET352146	Transistor 2SC458LG(D)	45-1-29	2	(1)-C3	EC476965	Elect./C. (Vert. Type) 47μF 25 WV NL	24-20-4	2
(1)-TR9	ET663243	Transistor 2SC1312S(G)	45-1-182	2	(1)-C3	EC476965	Elect./C. (Vert. Type) 47μF 25 WV NL	24-20-4	2
(1)-TR10	ET242684	Transistor 2SC1312S(H)	45-1-182	2	(1)-C4	EC692122	Styrol/C. (w/rubber) 470PF(J) 50WV	24-11-13	2
(1)-TR11	ET352146	Transistor 2SC458LG(D)	45-1-29	2	(1)-C4	EC692122	Styrol/C. (w/rubber) 470PF(J) 50WV	24-11-13	2
(1)-TR12	ET301464	FET 2SK68(M)(N)	45-12-14	2	(1)-C6	EC265432	Elect./C. (KA Type) 0.33μF(K) 50WV	24-19-2	2
(1)-TR13	ET399870	Transistor 2SC711(G)	45-1-67	2	(1)-C18	EC283061	Elect./C. (KA Type) 0.1μF(K) 50WV	24-20-13	2
(1)-TR14	ET639437	Transistor 2SC945L(Q)(P)	45-1-85	2	(1)-C18	EC283061	Elect./C. (KA Type) 0.1μF(K) 50WV	24-20-13	2
(1)-TR15	ET638504	Transistor 2SC945L(P)	45-1-85	2	(1)-C19	EC265432	Elect./C. (KA Type) 0.33μF(K) 50WV	24-20-13	2
(1)-TR16	ET539133	Transistor 2SA733(P)	45-1-124	2	(1)-C23	EC301470	Styrol/C. (w/rubber) 390PF(J) 50WV	24-11-13	1
(1)-TR17,18	ET639437	Transistor 2SC945L(Q)(P)	45-1-85	2	(1)-C23	EC301470	Styrol/C. (w/rubber) 390PF(J) 50WV	24-11-13	1
(1)-D1to5	ED219464	Germanium Diode 1N34A	45-3-1	10	(1)-C30,31	EC692111	Styrol/C. (w/rubber) 820PF(J) 50WV	24-11-13	4
(1)-D1	ED249377	LED GL-3AR1 for LED P.C Board (1)(2)	45-15-14	2	(1)-C44	EC303024	Styrol/C. (w/rubber) 270PF(J) 50WV	24-11-13	2
(1)-D2	ED283138	LED GL-3PG1 for LED P.C Board (2)	45-15-15	1	(1)-C45	EC476965	Elect./C. (Vert. Type) 47μF 25WV NL	24-20-4	2
(1)-D6	ED560913	Silicon Diode 1S2473VE	45-3-23	1	(1)-C46	EC517138	Elect./C. (Vert. Type) 10μF 25WV NL	24-20-4	2
(1)-D7,8	ED219464	Germanium Diode 1N34A	45-3-1	4	(1)-C47	EC692122	Styrol/C. (w/rubber) 470PF(J) 50WV	24-11-13	2
(1)-FL1,3	ER300433	Dolby Filter KM-10D100B	53-1-115	4	(1)-C49	EC432810	Elect./C. (Vert. Type) 10μF 16WV NL	24-20-4	2
(1)-FL2	ER283105	Dolby Filter KM-10D19B	53-1-115	2	(1)-C50	EC517138	Elect./C. (Vert. Type) 10μF 25WV NL	24-20-4	2
(1)-VL1	EO692741	Ferri Inductor 33Y-740	23-1-254	2	(1)-C54	EC233526	Elect./C. (KA Type) 0.22μF(K) 50WV	24-20-13	2
(1)-L1,2	EO301467	Ferri Inductor RX-9P 3.3MH(J)	23-1-275	4	(1)-C67	EC283061	Elect./C. (KA Type) 0.1μF(K) 50WV	24-20-13	2
(1)-T1	EO301466	OSC Coil 28N-503	23-4-46	1	(1)-C68	EC265432	Elect./C. (KA Type) 0.33μF(K) 50WV	24-20-13	2
(1)-TH1	ED263913	Thermistor PTH61BD 330M	45-14-7	1	(1)-C72	EC283061	Elect./C. (KA Type) 0.1μF(K) 50WV	24-20-13	2
(1)-FR1	ER561216	Fuse/R. FRN1/4 100 ohms(K) 50MA	35-14-9	1	(1)-C77	EC265432	Elect./C. (KA Type) 0.33μF(K) 50WV	24-20-13	2
(1)-VR1	EV522797	Semi-fixed/Vol. V8K4-1 20 kB	36-10-266	2	(1)-C84	EC262168	Styrol/C. (w/rubber) 680PF(J) 50WV	24-11-13	2
(1)-VR2	EV520806	Semi-fixed/Vol. V8K4-1 10 kB	36-10-266	2	(1)-C90	EC300502	Styrol/C. (w/rubber) 1200PF(J) 500WV	24-11-13	1
(1)-VR3	EV464220	Semi-fixed/Vol. V8K4-1 50 kB	36-10-266	2					
(1)-VR4	EV464207	Semi-fixed/Vol. V8K4-1 5 kB	36-10-266	2					
(1)-VR5	EV484863	Semi-fixed/Vol. V10K8-4-2 1 kB	36-10-250	1					
(1)-VR6	EV573366	Semi-fixed/Vol. V10K8-4-2 200 ohmsB	36-10-250	1					
(1)-VR7	EV499375	Semi-fixed/Vol. V10K8-4-2 500 ohmsB	36-10-250	1					
(1)-VR8	EV648527	Semi-fixed/Vol. V10K8-4-2 200 kB	36-10-250	2					
(1)-SW1,2	ES301457	Push SW. (2 throw) SUE-24	25-5-258	1					
(1)-SW3	ES301458	Push SW. SUE-12	25-5-257	1					
(1)-SW4	ES301459	Rotary SW. SRZ-V084S	25-6-114	1					
(1)-SW5	ES301460	Slide SW. SSC-442A	25-3-137	1					
(1)-J1,2	EJ280293	Mic Jack LJ255-1-16	31-2-77	2					
(1)-J3	EJ249232	Mic Jack LJ255-1-17	31-2-77	1					
(1)-6	MH300324	Rec Slide Prop	CM-5215	1					
(1)-R27	ER624756	Metal Oxide Film/R. 2W 330 ohms (J)	35-15-18	2					
(1)-R45	ER301461	Carbon/R. (Insu. Type) (F) 1/4W 470 ohms(J)	35-11-12	2					

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

**(2) POWER SUPPLY & SYS. CON P.C BOARD
(CM-5015) BLOCK**

Symbol No.	Parts No.	Description	Schematic No.	Q'ty
(2)-1	BA300239	Power Supply & Sys. Con P.C Board Comp. GXC-725D (U/T PX)	CM-9821	1
(2)-2	BA300240	Power Supply & Sys. Con P.C Board Comp. GXC-725D (JPN)	CM-9821	1
(2)-3	BA300242	Power Supply & Sys. Con P.C Board Comp. GXC-725D (CSA)	CM-9821	1
(2)-4	BA300243	Power Supply & Sys. Con P.C Board Comp. GXC-725D (AAL)	CM-9821	1
(2)-5	BA300244	Power Supply & Sys. Con P.C Board Comp. GXC-725D (CEE)	CM-9821	1
(2)-TR1	ET623867	Transistor 2SD361(D1) (D2)	45-1-143	1
(2)-TR2	ET554657	Transistor 2SA733(P)(Q)	45-1-124	1
(2)-TR3	ET639437	Transistor 2SC945L (Q)(P) (JPN)	45-1-85	1
(2)-TR4	ET399870	Transistor 2SC711(G)	45-1-67	1
(2)-TR5	ET639437	Transistor 2SC945L(Q) (P)	45-1-85	1
(2)-TR6	ET301468	Transistor 2SC1162(D)	45-1-268	1
(2)-D1,2	ED284095	Silicon Diode SIQB10 0.6A 100V(BLK)	45-2-74	2
(2)-D3	ED494583	Silicon Diode 10D05	45-2-42	1
(2)-D4	ED303046	Zener Diode RD-22E	45-6-78	1
(2)-D5to7	ED560913	Silicon Diode 1S2473VE	45-3-23	3
(2)-D9	ED560913	Silicon Diode 1S2473VE (JPN)	45-3-23	1
(2)-D10	ED219464	Germanium Diode 1N34A (JPN)	45-3-1	1
(2)-D11	ED494583	Silicon Diode 10D05	45-2-42	1
(2)-FR1,2	ER561216	Fuse/R. FRN1/4 100 ohms(K) 50MA (JPN, CSA, CEE)	35-14-9	2
(2)-R1	ER663513	Carbon/R. (F) 1/4W 680 ohms(J) (JPN, CSA, AAL)	35-11-12	1
(2)-R1	ER490814	Metal Oxide Film/R. 2W 680 ohms(J) (CEE)	35-15-8	1
(2)-R16	ER672210	Metal Oxide Film/R. 1W 1.5k(J)	35-15-17	1
(2)-C1	EC551160	△ Ceramic/C. DB821 NA 0.01μF(Z) 1.4KWV (U/T, JPN)	24-5-55	1
(2)-C1	EC286198	△ Ceramic/C. AL-10 0.01μF(Z) 125WV (CSA, AAL)	24-5-69	1
(2)-C1,2	EC283375	△ MP/C. PME271M547 0.047μF 250WV (CEE)	24-9-118	2
(2)-C3,4	EC295997	Elect./C. (Vert. Type) 2200μF 35WV	24-12-9	2
(2)-C20	EC487157	NP/C. (Vert. Type) 0.47μF(M) 50WV	24-17-17	1
(2)-6	ZS379350	Screw, pan head 3x6		2
(2)-7	ZS421806	Screw, pan head 3x8		1
(2)-8	ZW273756	Nut M3, #1		1

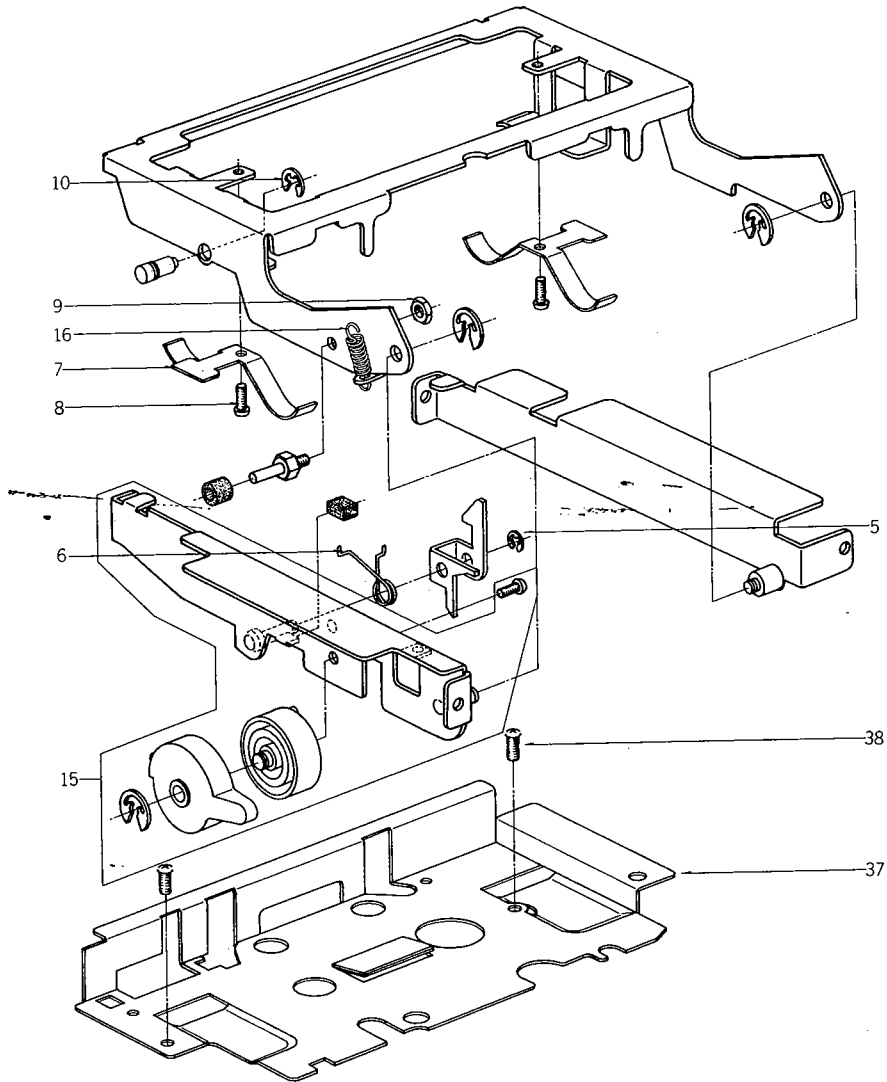
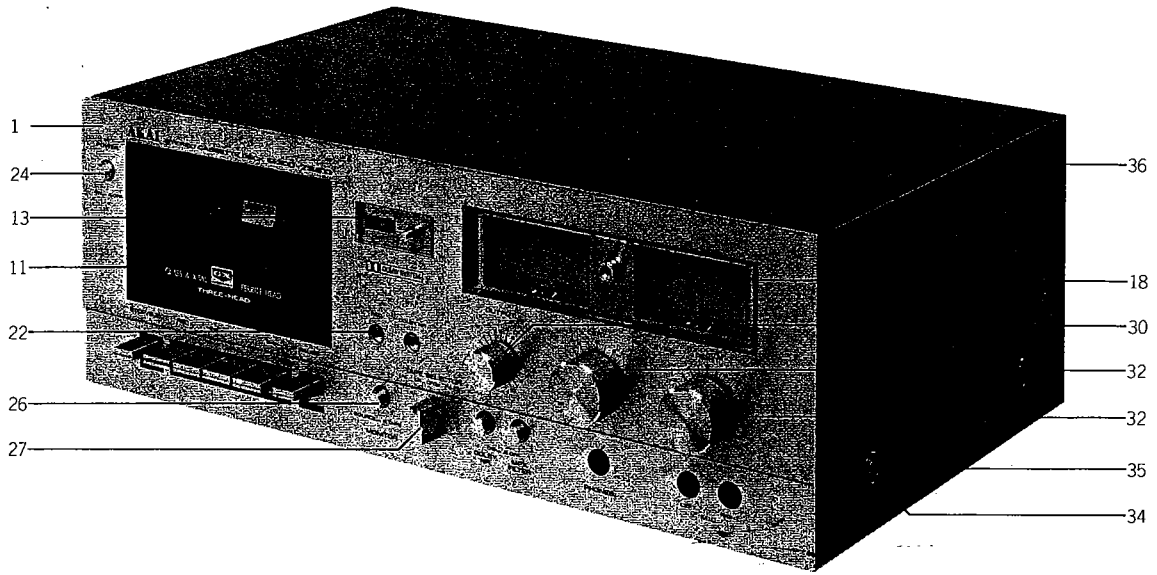
6. ILLUSTRATION OF POWER/AMP CHASSIS BLOCK



6) POWER/AMP CHASSIS BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
POWER CHASSIS BLOCK									
6-1	BT300516	△ Power Trans. CMT-21 (U/T PX, SAA)	38-4-510	1	6-52	ZW302909	Nylon Rivet (FNRP) 3x3.5 (Black)	2-7-54	2
6-2x	BT300515	△ Power Trans. CMT-22 (JPN)	38-4-511	1	6-53	SP305167	Rear Panel (E) (U/T PX, SAA)	CM-6202	1
6-3x	BT300512	△ Power Trans. CMT-25 (CSA)	38-4-513	1	6-54x	SP300459	Rear Panel (C) (CSA)	CM-6205	1
6-4x	BT300513	△ Power Trans. CMT-24 (AAL)	38-4-512	1	6-55x	SP300457	Rear Panel (A) (JPN)	CM-6202	1
6-5x	BT303047	△ Power Trans. CMT-23 (CEE)	38-4-525	1	6-56x	SP300458	Rear Panel (B) (AAL)	CM-6204	1
6-6	ZW273892	Toothed Lock Washer M4		4	6-57x	SP300867	Rear Panel (D) (CEE, U/T)	CM-6202/ 6206	1
6-7	ZS301576	Tapping Screw, #3, 4x10(Pan)		2	6-58	ZS447761	Tapping Screw #2, 3x6 (BR) (Black)		5
6-8x	ZS302937	Tapping Screw #3, 4x12 (Pan) (CEE)		2					
6-9x	EW374894	△ AC Cord CUL 3M (U/T PX)	26-3-19	1					
6-10x	EW524845	△ AC Cord (J) 2.5M (JPN)	26-3-31	1					
6-11x	EW207742	△ AC Cord CUL (CSA, AAL)	26-3-45	1					
6-12x	EW699827	△ AC Cord (SAA) VM-0118	26-3-39	1					
6-13x	EZ631945	Strain Relief SR-4N-4	2-7-49	1					
6-14x	EZ246936	Strain Relief SR-6W-1 (SAA)	2-7-8	1					
6-15	ES301510	△ Slide SW. (B) (CEE)	25-3-143	1					
6-16x	ZS447840	Tapping Screw #2, 3x8 (BR) (CEE)		6					
6-17	EJ301513	△ 2P Inlet (CEE)	31-1-200	1					
6-18x	ZS300519	Tapping Screw #3, 4x8 (Pan)		2					
6-19	ES293703	△ Push SW. SDV1P TV-5 (w/o label)	25-5-254	1					
6-20x	ES280258	△ Push SW. SDV1P TV-5 (w/label) (AAL)	25-5-243	1					
6-21x	ES665807	△ Push SW. SDG-5P 5A/80A 250 V (CEE)	25-5-182	1					
6-22	ZS422076	Screw, pan head 3x5		4					
6-23	TC289484	SW. Connection Plate	CM-6015	1					
6-24	ZS325495	Tapping Screw #2, 3x6 (BR)		14					
6-25x	ZS300506	Tapping Screw #3, 3x5 (Pan)		8					
6-26	EF563681	△ Fuse 1A 250V	39-1-50	1					
6-27x	EF575932	△ Fuse 0.8A 250V	39-1-50	1					
6-28x	EF511637	△ Fuse ULMF61M 250V 1A (CSA, AAL)	39-1-45	1					
6-29x	EF511626	△ Fuse ULMF61M 250V 0.8A (CSA, AAL)	39-1-45	1					
6-30x	EF601942	△ Fuse (SEMKO T Type) 630MAT (CEE)	39-1-53	1					
6-31x	EF668474	△ Fuse (SEMKO T Type) 400MAT (CEE)	39-1-53	1					
6-32	ZW413267	Flange Nut M4		2					
6-33	ML300342	Rec Lever CM-5214		1					
6-34	ZW290283	'U' Ring-2.85M	6-1-1	2					
6-35	ZG516418	Eject Spring	CG-1238	1					
6-36	ZG300681	Rec Spring	CM-1202	1					
AMP CHASSIS BLOCK									
6-37	EJ300507	4P Pin Jack (B) T-5500-BB	31-5-139	1					
6-38	ZS463353	Tapping Screw #2, 3x8 (BR)		2					
6-39	EV300504	Single axial 2 throw Vol. GM-80 10 kohms x 2	36-22-30	1					
6-40	EV300505	Vol. VM10R-951 100 kA	36-6-28	2					
6-41x	ZS422076	Screw, pan head 3x5		3					
6-42x	ZS417216	Screw, pan head 3x4		3					
6-43x	ZW273802	Toothed Lock Washer M3		2					
6-44	ML300325	Rec Slide	CM-5212	1					
6-45	SP300464	Bottom Plate	CM-6207	1					
6-46	SA280282	Rubber Foot (U/T PX)	2-6-16	4					
6-47x	SA300573	Rubber Foot (JPN, CSA, AAL, CEE, SAA)	2-6-17	4					
6-48	SP303130	Meter Panel (B)	CM-5219	1					
6-49	EM295817	VU Meter D34A73R (U/T PX, CSA, AAL, CEE, SAA)	46-1-153	2					
6-50x	EM295828	VU Meter D34A72R (JPN)	46-1-166	2					
6-51	SE303128	Peak Escutcheon (JPN, CSA, AAL, CEE, SAA)	CM-5218	1					

FINAL ASSEMBLY BLOCK



7) FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Qty
FRONT PANEL BLOCK				
7-1	BD300535	Front Panel Block Comp. GXC-725D (U/T PX)	CM-9803	1
7-2x	BD300533	Front Panel Block Comp. GXC-725D (JPN)	CM-9803	1
7-3x	BD303159	Front Panel Block Comp. GXC-725D (U/T)	CM-9803	1
7-4x	ZS558101	Screw, pan head 3x6 w/washer		4
7-5	ZW270101	'E' Ring 3M	6-1-9	1
7-6	ZG300172	Lock Spring	CM-6039	1
7-7	ZG282690	Set Spring	CN-6009	2
7-8	ZS201396	Screw, pan head 2.3x3		2
7-9	ZW516611	Nut M3		1
7-10	ZW270101	'E' Ring 3M	6-1-9	1
7-11	BD301361	Lid Panel Comp. CM-2 (U/T PX)	CM-9803	1
7-12x	BD303160	Lid Panel Comp. CM-2 (JPN, U/T)	CM-9803	1
7-13	SE659665	Counter Escutcheon (B) (U/T PX)	CJ-6007	1
7-14x	SE303125	Counter Escutcheon (B) (JPN, U/T)	CM-6213	1
7-15	TC300777	Oil Clutch (A) Comp.-G CM	CI-2218	1
7-16	ZG294017	Eject Spring (B)	CM-6025	1
7-17	SE286885	SW. Escutcheon (B)	CM-6016	4
7-18	SE300343	Meter Escutcheon (U/T PX)	CM-6208	1
7-19x	SZ303129	Meter Cover (B) (JPN, U/T)	CM-6215	1
7-20x	ZS447840	Tapping Screw #2, 3x8 (BR)		5
7-21x	SE300329	Button Escutcheon (U/T PX)	CM-6209	1
7-22	SE303071	LED Escutcheon (A)	CM-6051	1
FINAL ASSEMBLY BLOCK				
7-23x	ZS325495	Tapping Screw #2, 3x6 (BR)		2
7-24	SK300103	Push Button Knob (M) (U/T PX)	91-5051	1
7-25x	SK303165	Push Button (A) Comp. GXC-709D (JPN, CSA, AAL, CEE, SAA, U/T)	CM-6060	1
7-26	SK300102	Push Button Knob (L)	91-5051	3
7-27	SK292938	Tape Knob	CM-6028	1
7-28x	SK303127	Selector Knob (C)	CM-6216	1
7-29x	ZS447840	Tapping Screw #2, 3x8 (BR)		6
7-30	SK219497	Single Knob CQ (U/T PX)	CQ-6009	1
7-31x	SK303069	Vol. Knob (A) (JPN, CSA, AAL, CEE, SAA, U/T)	CM-6052	1
7-32	SK640901	Single Knob (U/T PX)	TE-6010	2
7-33x	SK303126	Vol. Knob (C)	CM-6217	2
7-34	ZW548010	Spot Facing Washer	MU-6028	4
7-35	ZS300517	Tapping Screw #3, 4x12 (Pan)		4
7-36	BC289293	Cabinet	CM-6021	1
7-37	TC289697	Decoratation Plate	CM-1035	1
7-38	ZS265307	Tapping Screw #2, 2.3x6 (Truss)		2
7-39x	EW302899	△ Cord Set U/T Type 2 (U/T)	26-3-60	1

8. 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.
2SA733(Q)(P) 2SA733(P)	ET554657 ET539133	CM-5015 CM-5213A	2SA564(Q)(R) 2SA628(D)(E)(F)(G)	ET538154 ET539144
2SC458LG(D)	ET352146	CM-5213A	2SC693U(F)(G) 2SC1000(BL)(GR) 2SC1312S(G)(H)	ET429647 ET622181 ET603257
2SC711(G)	ET399870	CM-5015 CM-5213A	2SC536(G)(H) 2SC1647(S)(E)(U)	ET403391 ET601312
2SC945L(Q)(P) 2SC945L(P)	ET639437 ET638504	CM-5213A	2SC536(F)(G)(H) 2SC711(E)(F)(G)(H)	ET632215 ET619727
2SC1312S(G)	ET663243	CM-5213A	2SC458LG(C)(D)	ET391768
2SC1344(E)	ET539853	CM-5213A	2SC900(E)(F) 2SC1222(E)(F) 2SC1312(F)(G)	ET452687 ET459810 ET539987
2SD361(D1)(D2)	ET623867	CM-5015	2SC1098(K)(L) 2SD234(O)(Y)	ET465208 ET393568
2SK68(M)(N)	ET301464	CM-5213A		
SIQB20(RED)	ED249581	CM-5015	SIQB10(BLK)	ED284095
10D05	ED494583	CM-5015	10D1 1N4001	ED224526 ED538615
RD-22E	ED303046	CM-5015	WZ-240	ED511918
1S2473VE 1S2473	ED560913 ED624903	CM-5015 CM-5213A	1S1588 WG599 WG713	ED557447 ED514721 ED515790
1N34A	ED219464	CM-5015 CM-5213A	1S188AM 1S188FM-1	ED562386 ED562397
GL-3PG1	ED283138	CM-5213(B) CM-5213(C)		
GL-3AR1	ED249377	CM-5213(B)		

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.
BA300239	(2)-1	EJ300507	6-37	MC295918	3-30	ZG303257	3-27		
BA300240	(2)-2	EJ301513	6-17	MC303163	3-31x	ZG369112	2-31		
BA300242	(2)-3	EL301541	3-34	MH300324	(1)-6	ZG394378	3-22		
BA300243	(2)-4	EM295817	6-49	MI285928	4-19	ZG465636	2-23		
BA300244	(2)-5	EM295828	6-50x	ML286176	3-19	ZG516418	6-35		
BA300246	(1)-1	EO301466	(1)-T1	ML300068	3-12x	ZG580770	4-14		
BA300838	(1)-2	EO301467	(1)-L1,2	ML300163	3-4	ZS201396	7-8		
BA303607	(1)-3	EO692741	(1)-VL1	ML300166	4-12	ZS265307	7-38		
BA303608	(1)-4	EP300424	4-2	ML300325	6-44	ZS296381	2-29		
BA303609	(1)-5	ER265048	(1)-R119	ML300342	6-33	ZS300506	6-25x		
BC289293	7-36	ER281305	(1)-R121	MS300319	2-9	ZS300517	7-35		
BD300533	7-2x	ER283105	(1)-FL2	MS302907	2-16	ZS300519	6-18x		
BD300535	7-1	ER300433	(1)-FL1,3	MV296403	3-23	ZS300626	2-26		
BD301361	7-11	ER301441	(1)-R120	MV357208	2-34	ZS301576	6-7		
BD303159	7-3x	ER301461	(1)-R45	MZ300158	4-15	ZS302937	6-8x		
BD303160	7-12x	ER490814	(2)-R1	SA280282	6-46	ZS303625	2-22		
BH300247	2-1	ER561216	(1)-FR1	SA300573	6-47x	ZS303660	2-27		
BK300207	3-35	ER561216	(2)-FR1,2	SE286885	7-17	ZS325495	6-24		
BL297562	4-9	ER624756	(1)-R27	SE300329	7-21x	ZS325495	7-23x		
BL297573	4-7	ER624756	(1)-R97	SE300343	7-18	ZS356804	2-21		
BL304424	2-32	ER663298	(1)-R120	SE303071	7-22	ZS379350	(2)-6		
BL305015	4-11	ER663513	(2)-R1	SE303125	7-14x	ZS417216	6-42x		
BM300213	4-23	ER664852	(1)-R122	SE303128	6-51	ZS421806	(2)-7		
BR297540	4-4	ER672210	(2)-R16	SE659665	7-13	ZS422076	6-22		
BR301998	4-5	ER678576	(1)-R122	SK219497	7-30	ZS422076	6-41x		
BT300512	6-3x	ES280258	6-20x	SK292938	7-27	ZS422965	3-33		
BT300513	6-4x	ES293703	6-19	SK300102	7-26	ZS557761	6-58		
BT300515	6-2x	ES295773	4-25	SK300103	7-24	ZS447840	4-6		
BT300516	6-1	ES295784	4-28	SK303069	7-31x	ZS447840	4-18		
BT303047	6-5x	ES301457	(1)-SW1,2	SK303126	7-33x	ZS447840	6-16x		
EA669510	2-30x	ES301458	(1)-SW3	SK303127	7-28x	ZS447840	7-20x		
EC233526	(1)-C54	ES301459	(1)-SW4	SK303165	7-25x	ZS447840	7-29x		
EC262168	(1)-C84	ES301460	(1)-SW5	SK640901	7-32	ZS463353	6-38		
EC265432	(1)-C6	ES301510	6-15	SP300457	6-55x	ZS479474	4-16		
EC265432	(1)-C19	ES516036	4-1	SP300458	6-56x	ZS484918	4-27		
EC265432	(1)-C68	ES665807	6-21x	SP300459	6-54x	ZS487091	2-12		
EC265432	(1)-C77	ET242684	(1)-TR10	SP300464	6-45	ZS558101	7-4x		
EC283061	(1)-C18	ET301464	(1)-TR12	SP300867	6-57x	ZS592378	3-36		
EC283061	(1)-C67	ET301468	(2)-TR6	SP303130	6-48	ZS592378	4-3x		
EC283061	(1)-C72	ET352146	(1)-TR1	SP305167	6-53	ZS608106	4-24x		
EC283375	(2)-C1,2	ET352146	(1)-TR8	SZ301996	2-18	ZS608220	3-38		
EC286198	(2)-C1	ET352146	(1)-TR11	SZ303129	7-19x	ZS669104	2-19		
EC295997	(2)-C3,4	ET399870	(1)-TR3,4	TC282396	3-26	ZW270101	7-5		
EC300502	(1)-C90	ET399870	(1)-TR13	TC285917	3-5x	ZW270101	7-10		
EC301470	(1)-C23	ET399870	(2)-TR4	TC285930	3-2	ZW273688	2-24		
EC303024	(1)-C44	ET539133	(1)-TR16	TC285941	3-9	ZW273756	(2)-8		
EC432810	(1)-C49	ET539853	(1)-TR5	TC285952	3-13	ZW273802	6-43x		
EC476965	(1)-C3	ET554657	(2)-TR2	TC285963	3-6	ZW273892	6-6		
EC476965	(1)-C45	ET623867	(2)-TR1	TC285974	3-1	ZW282407	2-14		
EC487157	(2)-C20	ET638504	(1)-TR6,7	TC286007	2-4	ZW282407	4-10		
EC487157	4-26	ET638504	(1)-TR15	TC286020	3-28	ZW290283	3-11x		
EC517138	(1)-C2	ET639437	(1)-TR14	TC286031	4-17	ZW290283	6-34		
EC517138	(4)-C46	ET639437	(1)-TR17,18	TC286165	3-20	ZW295907	3-15		
EC517138	(1)-C50	ET639437	(2)-TR5	TC286277	3-7	ZW295907	4-13		
EC551160	(2)-C1	ET639437	(2)-TR3	TC289484	6-23	ZW301934	4-20		
EC692111	(1)-C30,31	ET663243	(1)-TR2	TC289675	3-24	ZW302909	6-52		
EC692122	(1)-C4	ET663243	(1)-TR9	TC289697	7-37	ZW318014	2-6		
EC692122	(1)-C47	EV300504	6-39	TC289888	3-16	ZW413267	6-32		
ED219464	(1)-D1to5	EV300505	6-40	TC289890	3-17	ZW438928	2-15		
ED219464	(1)-D7,8	EV464207	(1)-VR4	TC300165	3-8x	ZW452395	2-28		
ED219464	(2)-D10	EV464220	(1)-VR3	TC300205	2-8	ZW460787	3-21		
ED249377	(1)-D1	EV484863	(1)-VR5	TC300777	7-15	ZW516611	7-9		
ED263913	(1)-TH1	EV499375	(1)-VR7	TC305840	3-37	ZW548010	7-34		
ED283138	(1)-D2	EV520806	(1)-VR2	ZG282690	7-7	ZW609311	2-7		
ED284095	(2)-D1,2	EV522797	(1)-VR1	ZG286018	2-33	ZW699052	2-13		
ED303046	(2)-D4	EV573366	(1)-VR6	ZG286187	3-18				
ED494583	(2)-D3	EV648527	(1)-VR8	ZG289236	2-5				
ED494583	(2)-D11	EW207742	6-11x	ZG289596	2-17				
ED560913	(1)-D6	EW302899	7-39x	ZG289811	4-21				
ED560913	(2)-D5to7	EW374894	6-9x	ZG289822	3-25				
ED560913	(2)-D9	EW524845	6-10x	ZG289934	3-14				
EF511626	6-29x	EW699827	6-12x	ZG294017	7-16				
EF511637	6-28x	EZ246936	6-14x	ZG296447	3-29				
EF563681	6-26	EZ631945	6-13x	ZG300162	3-10x				
EF575932	6-27x	HE300248	2-11	ZG300172	7-6				
EF601942	6-30x	HP671174	2-25	ZG300206	3-3				
EF668474	6-31x	HZ302180	2-3	ZG300320	2-10				
EI301463	(1)-IC1,2	MB296458	3-32	ZG300681	6-36				
EJ249232	(1)-J3	MB304807	4-8	ZG301494	2-20				
EJ280293	(1)-J1,2	MB699118	4-22	ZG301495	2-2				

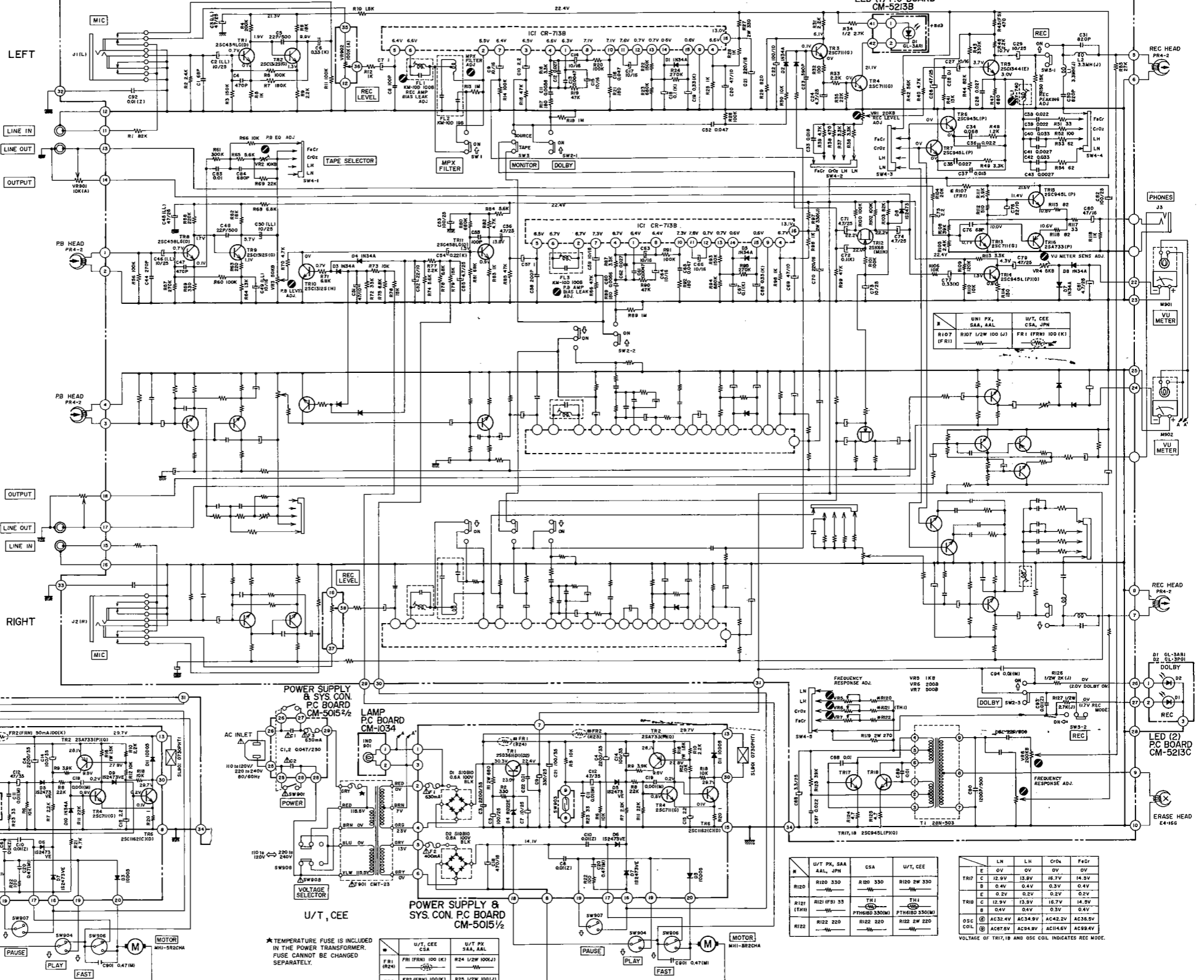
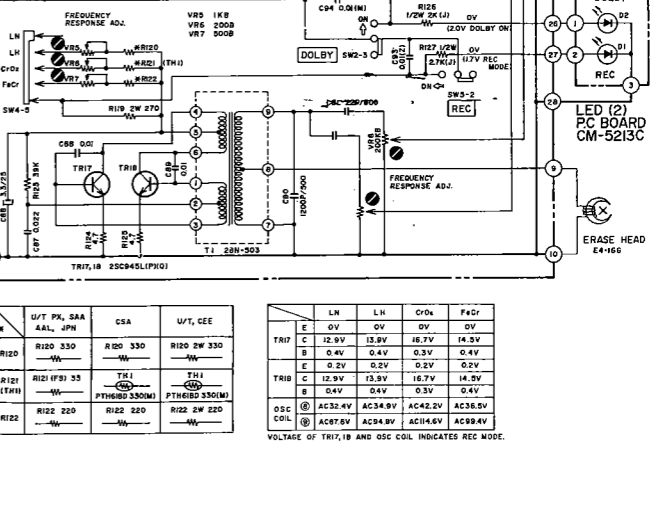
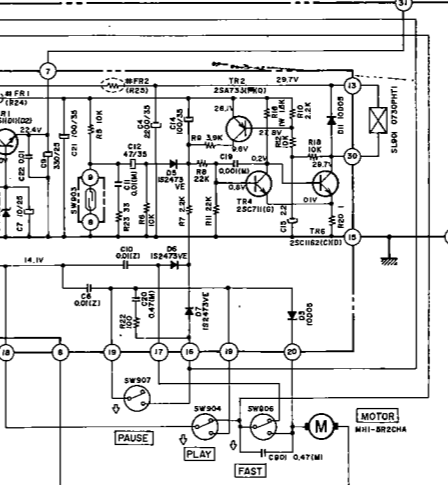
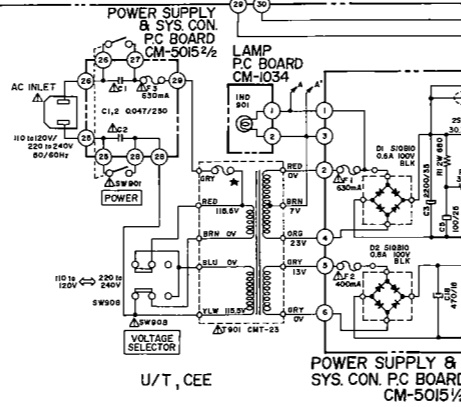
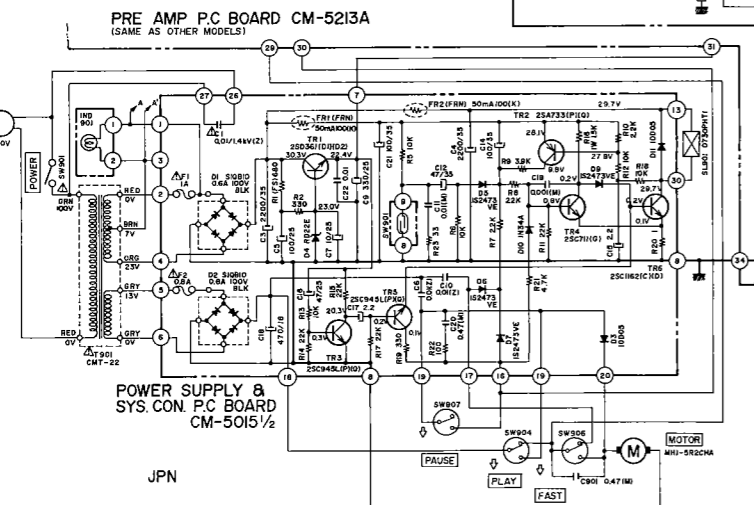
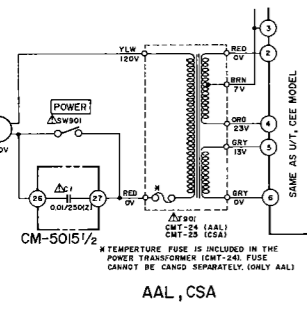
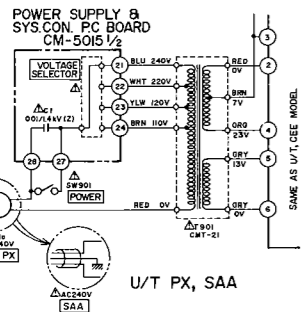
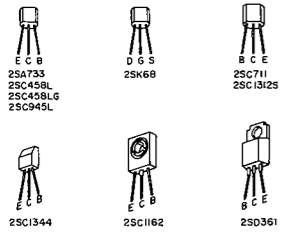
SECTION 3

SCHEMATIC DIAGRAM

1. GXC-725D SCHEMATIC DIAGRAM NO. 1542432A

PRE AMP P.C BOARD CM-5213A

LED (1) P.C BOARD CM-5213B



WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
 AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRÉ DE SÛRETÉ DE L'APPAREIL, NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SÛRETÉ QUE PAR DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

* TEMPERATURE FUSE IS INCLUDED IN THE POWER TRANSFORMER. FUSE CANNOT BE CHANGED SEPARATELY.

F.1 (R24)	F.1 (FR1) 100 (K)	R24 1/2W 100(K)	U/T PX, SAA, AAL
F.2 (R25)	F.2 (FR2) 100(K)	R25 1/2W 100(K)	U/T, CEE

NOTES
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS 1/4W (J)
 ALL CAPACITORS IN μF 50WV (J)
 (F.S.)-FAIL SAFE RESISTORS
 (L.L.)-LOW LEAKAGE CAPACITORS
 POWER TRANSFORMER IS DIFFERENT ACCORDING TO AREA.

LN	LH	CR4	FR4
E 0V	0V	0V	0V
C 12.9V	15.9V	18.7V	14.2V
B 0.4V	0.4V	0.3V	0.4V
E 0.2V	0.2V	0.2V	0.2V
TR10	12.9V	13.9V	16.7V
B 0.4V	0.4V	0.3V	0.4V
OSC COIL	AC32.4V	AC34.9V	AC42.2V
	AC67.6V	AC94.8V	AC114.6V

VOLTAGE OF TR17, TR18 AND OSC COIL INDICATES REC. MODE.