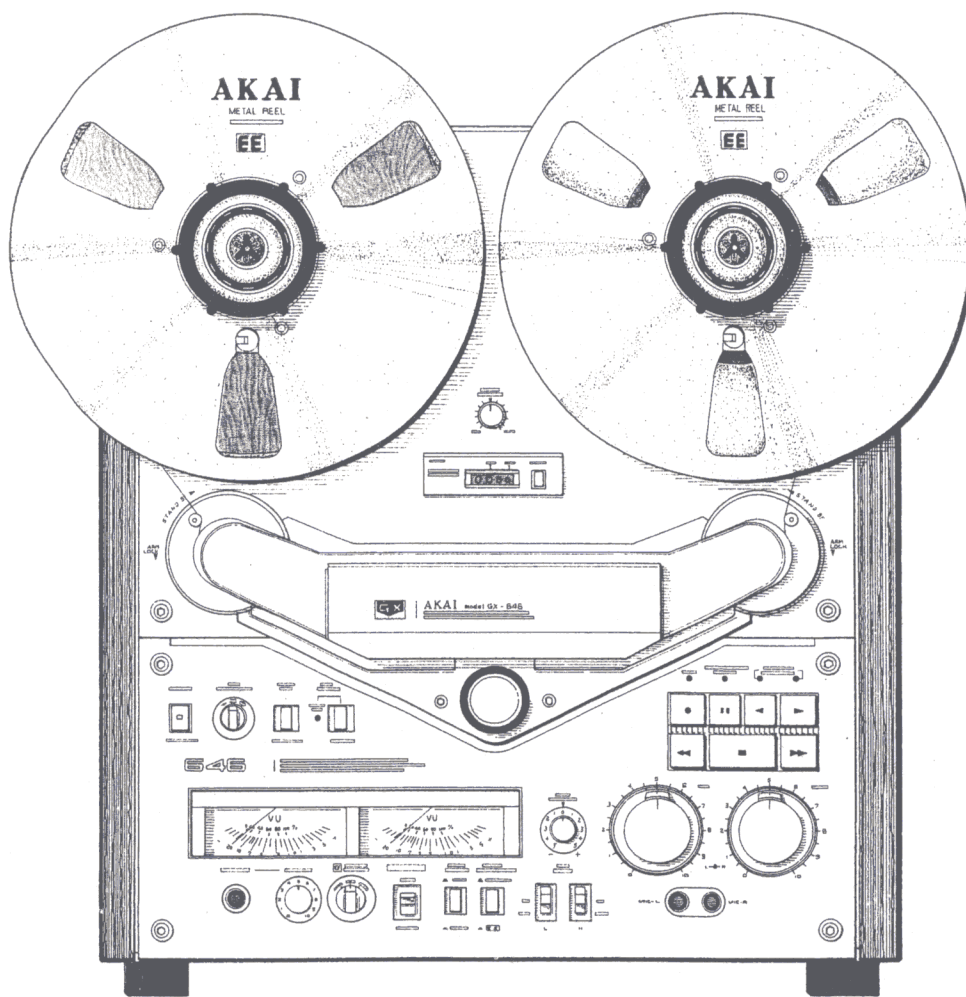


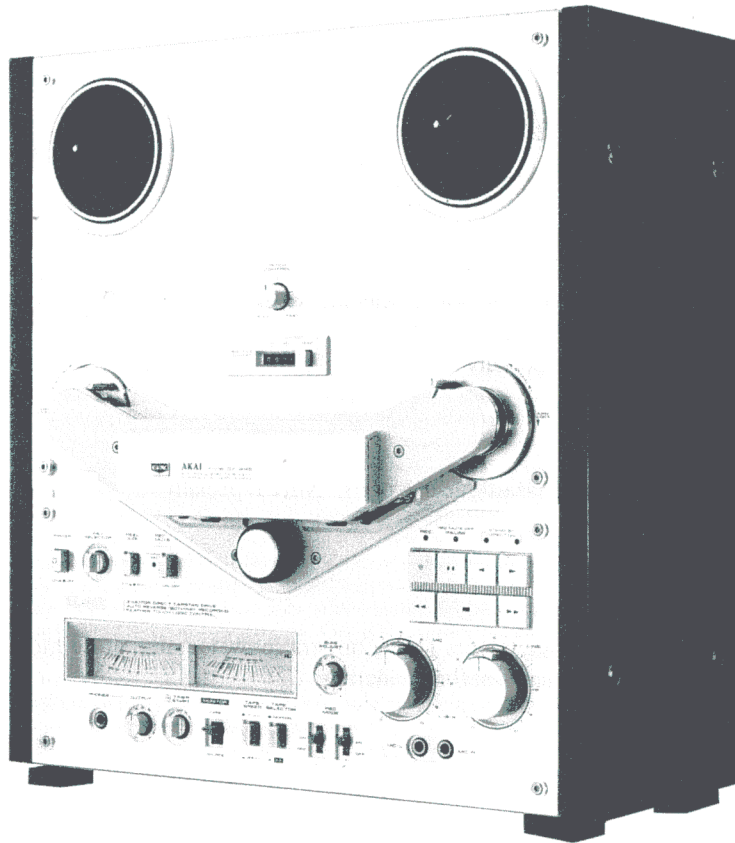
AKAI SERVICE MANUAL

GX-646



STEREO TAPE DECK

MODEL **GX-646**



STEREO TAPE DECK

MODEL GX-646

THIS MANUAL IS ALSO APPLICABLE TO BLACK PANEL MODELS

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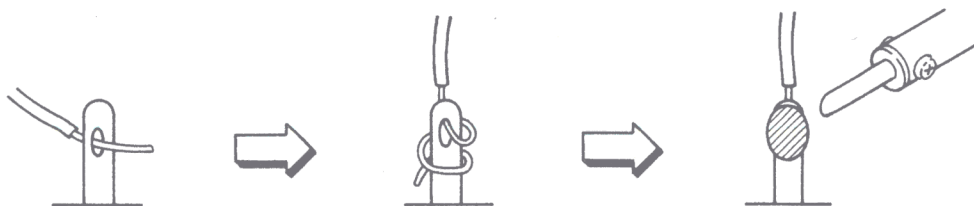
SAFETY INSTRUCTIONS

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for **C** or **A**, specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks, line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

1. Parts identified by the \triangle symbol parts are critical for safety.
Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SECTION 1

SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

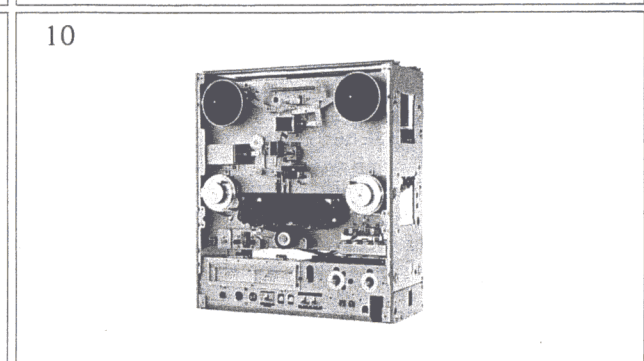
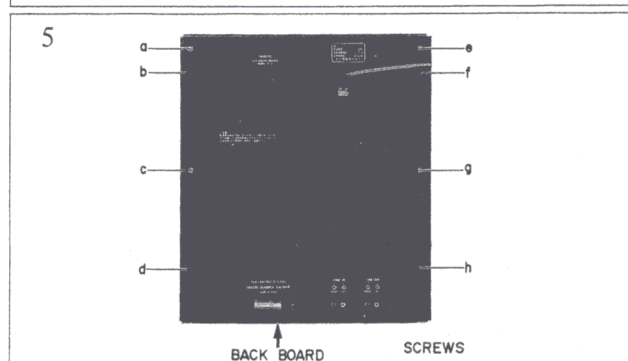
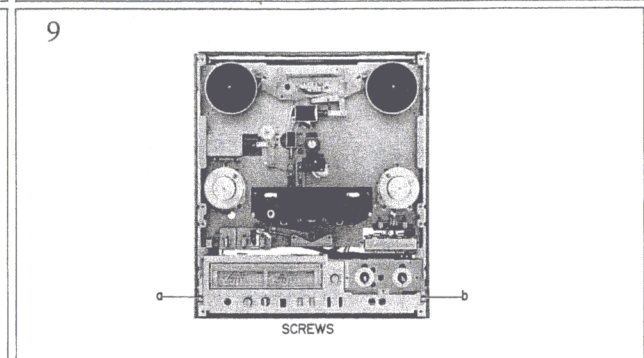
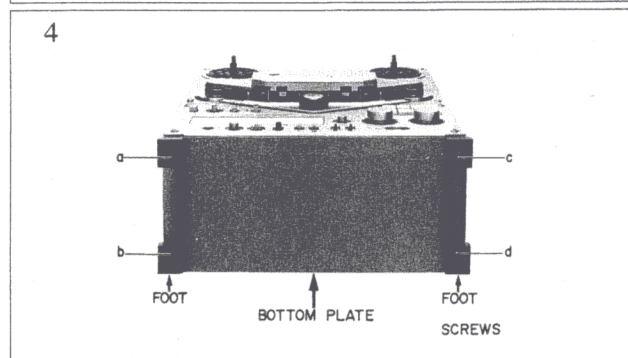
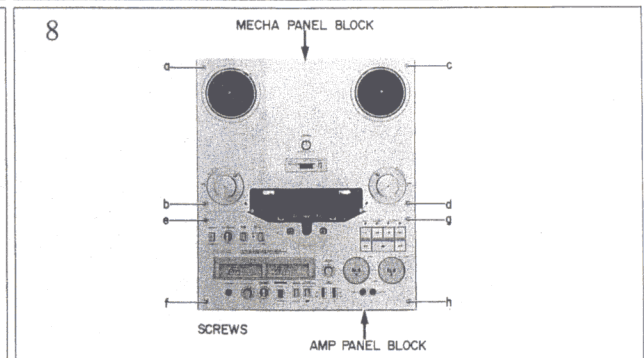
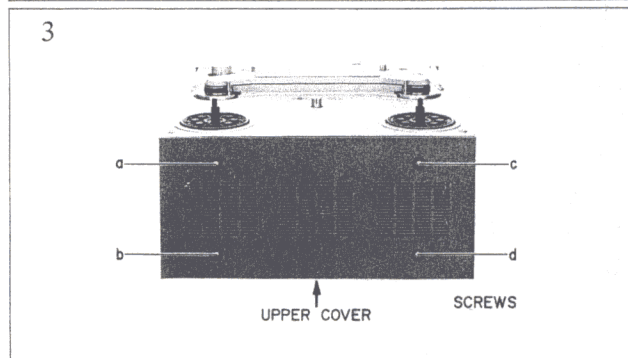
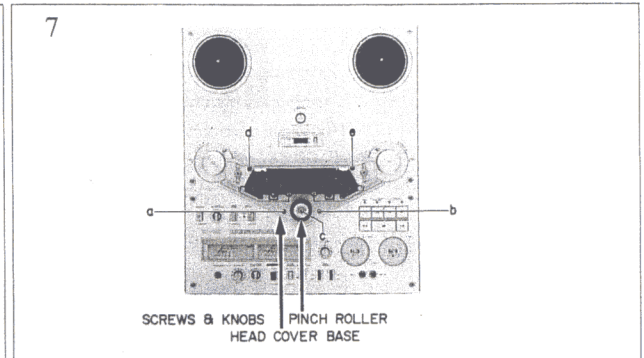
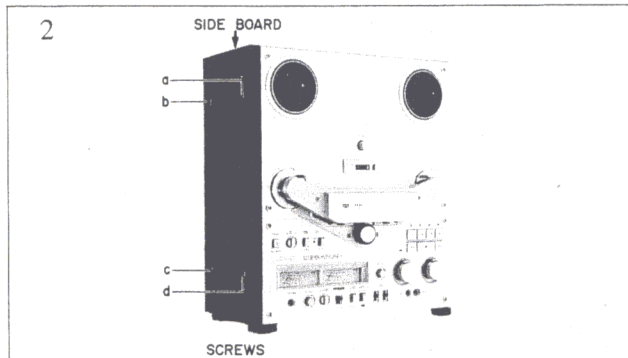
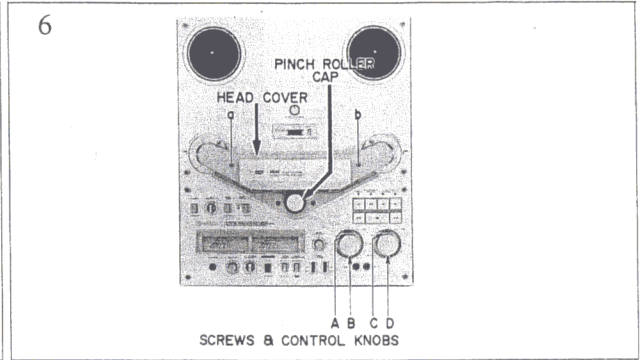
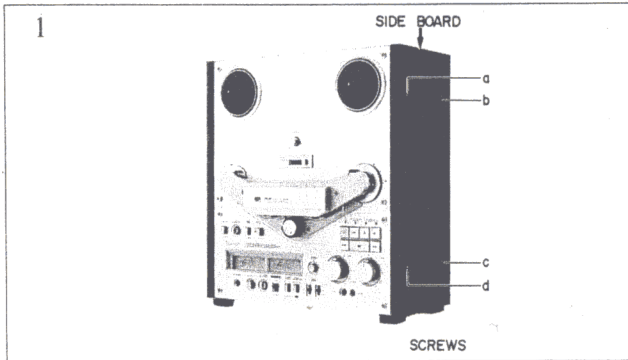
I . SPECIFICATIONS

TRACK SYSTEM	4 Track 2 Channel Stereo System
REEL CAPACITY	Up to 10" reel
HEADS	GX head for Recording x 2 GX head for Playback x 2 Erase head x 2
MOTORS	AC Servo motor for capstan drive x 1 AC Eddy current motor for reel drive x 2
TAPE SPEED	19 cm/s \pm 0.8% (7-1/2 ips.) 9.5 cm/s \pm 1.0% (3-3/4 ips.)
WOW & FLUTTER	Less than 0.03% WRMS, 0.07% DIN 45500 at 19 cm/s Less than 0.04% WRMS, 0.09% DIN 45500 at 9.5 cm/s
TAPE WINDING TIME	75 sec. using 360 m (1,200 ft.) Tape
FREQUENCY RESPONSE	25 to 33,000 Hz \pm 3 dB at 19 cm/s 25 to 26,000 Hz \pm 3 dB (0 VU) 25 to 25,000 Hz \pm 3 dB at 9.5 cm/s 25 to 15,000 Hz \pm 3 dB (0 VU)
SIGNAL TO NOISE RATIO	Better than 65 dB at 19 cm/s DIN 45500
HARMONIC DISTORTION	Less than 0.4% at 19 cm/s
INPUT	MIC: 0.25 mV (input impedance 5.0 kohms) Required microphone impedance: 600 ohms Line: 70 mV (input impedance 100 kohms)
OUTPUT	Line: 0.775 V at 0 VU Required load impedance: more than 20 kohms Phone: 100 mV/8 ohms at 0 VU
DIN	Input: 2 mV (input impedance 10 kohms) Output: 0.3 V Required load impedance: more than 20 kohms
POWER REQUIREMENTS	100 V, 50/60 Hz for Japan 120 V, 60 Hz for USA & Canada 220 V, 50 Hz for Europe except UK 240 V, 50 Hz for UK & Australia 110 V/120 V/220 V/240 V, 50/60 Hz switchable for the other countries.
POWER CONSUMPTION	J 75 W C, A 120 W U 70 W
DIMENSIONS	440 (W) x 483 (H) x 256 (D) mm (17.3 x 19.0 x 10.1 inches)
WEIGHT	21 kg (46.4 lbs)

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

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



III. CONTROLS

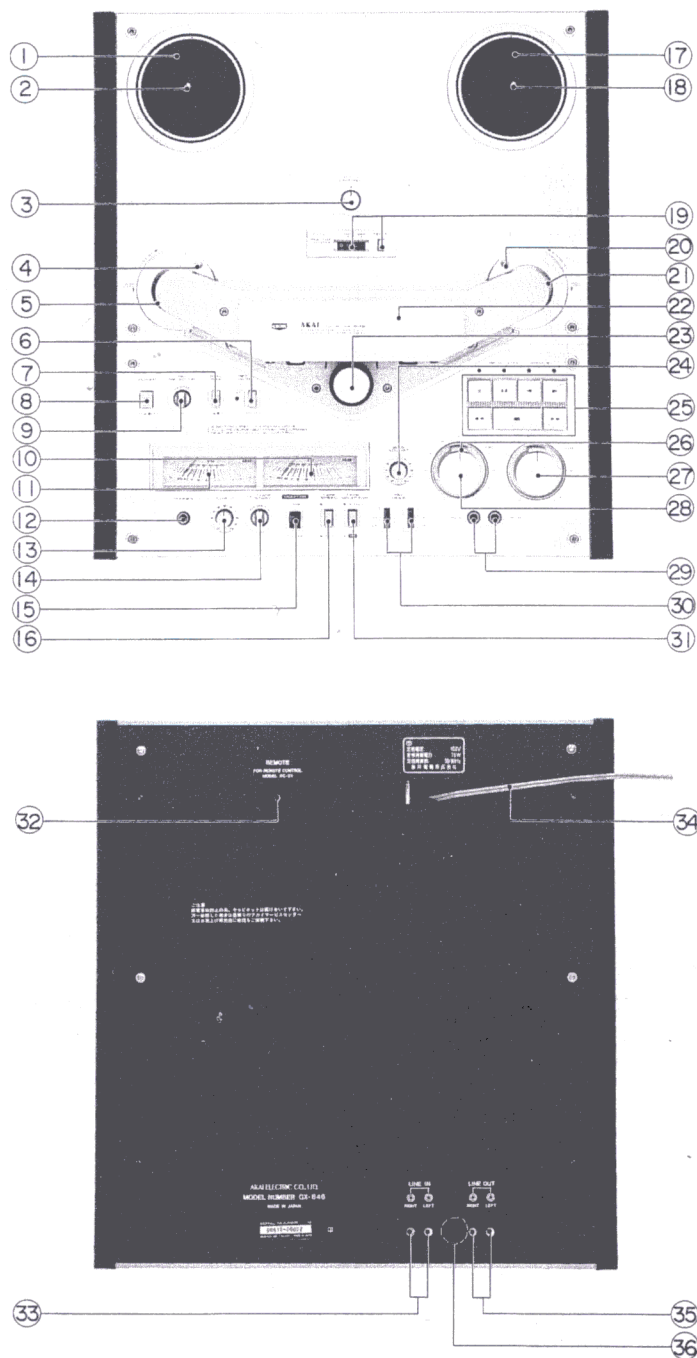


Fig. 1 Controls

- | | |
|------------------------------------|--|
| 1. SUPPLY REEL TABLE | 19. REAL TIME COUNTER and RESET BUTTON |
| 2. BUILT-IN REEL RETAINER (Left) | 20. RIGHT TENSION ARM (SENSING PIN) |
| 3. PITCH CONTROL | 21. GUIDE ROLLER (Right) |
| 4. LEFT TENSION ARM (SENSING PIN) | 22. HEAD COVER |
| 5. GUIDE ROLLER (Left) | 23. PINCH ROLLER |
| 6. RECORDING MUTE SWITCH | 24. BIAS ADJUSTMENT VOLUME |
| 7. REEL SIZE SELECTOR | 25. OPERATING BUTTONS |
| 8. POWER SWITCH | 26. MEMORY MARKER |
| 9. REVERSE SELECTOR | 27. LINE INPUT CONTROLS |
| 10. VU METER (Right) | 28. MICROPHONE INPUT CONTROLS |
| 11. VU METER (Left) | 29. MICROPHONE JACKS (Left/Right) |
| 12. HEADPHONE JACK | 30. RECORDING MODE SWITCH |
| 13. OUTPUT LEVEL CONTROL | 31. TAPE SELECTOR |
| 14. TIMER START | 32. REMOTE CONTROL JACK |
| 15. MONITOR SWITCH | 33. LINE IN JACKS |
| 16. TAPE SPEED SELECTOR | 34. AC CORD |
| 17. TAKE-UP REEL TABLE | 35. LINE OUT JACKS |
| 18. BUILT-IN REEL RETAINER (Right) | 36. DIN JACK (Some models do not have this facility) |

IV. PRINCIPAL PARTS LOCATION

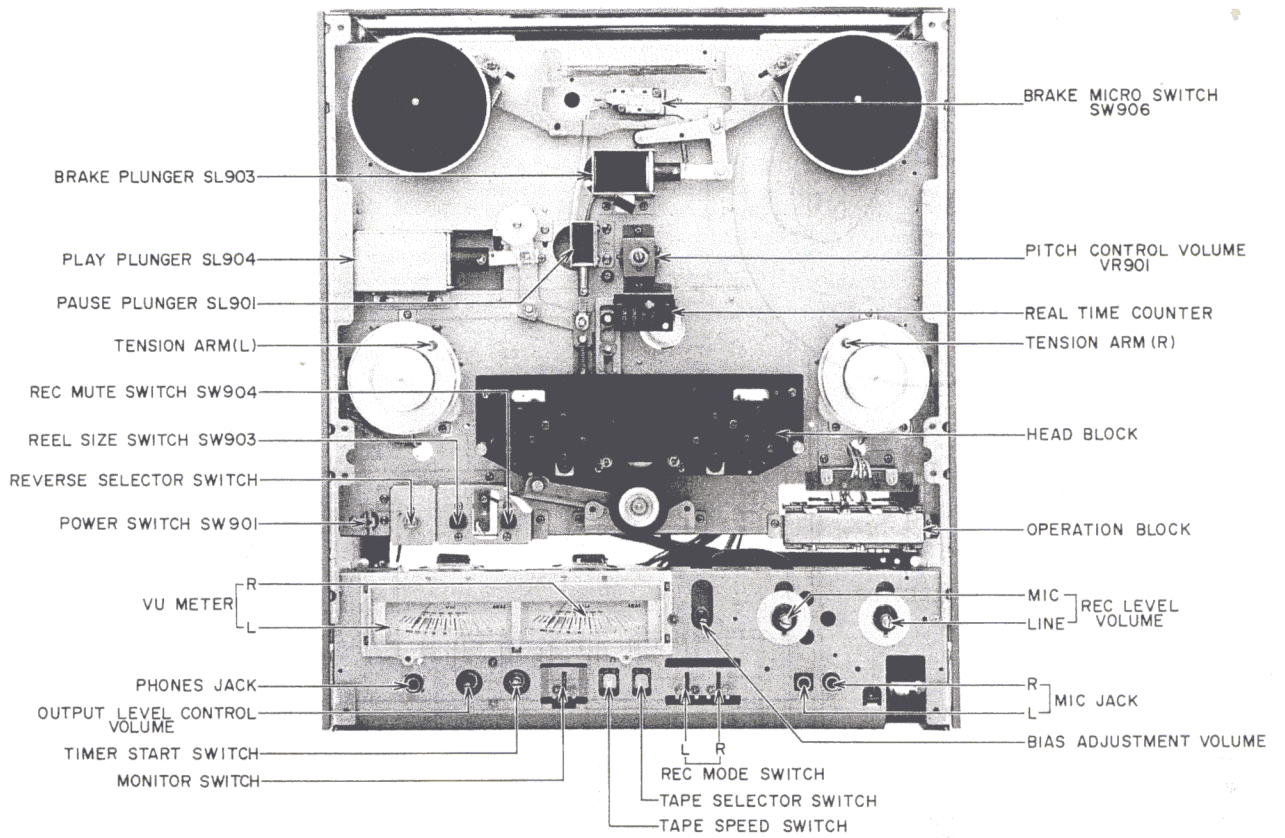


Fig. 2 Front View

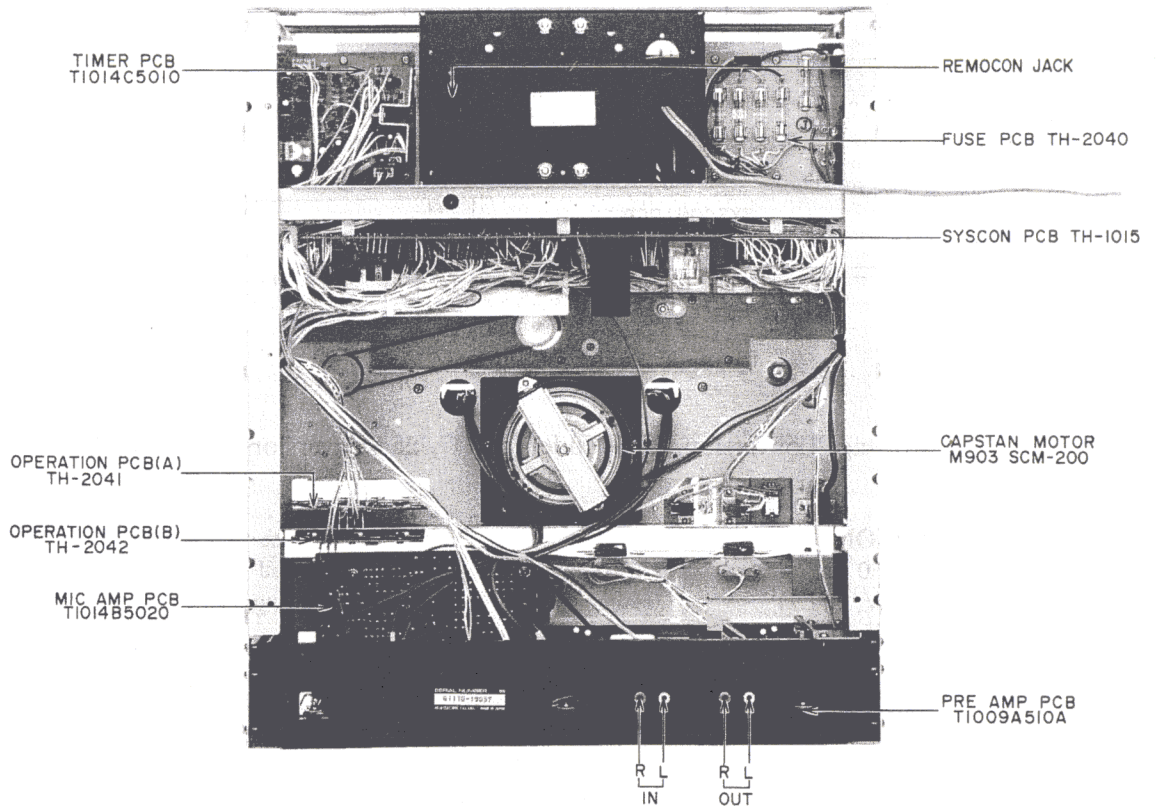


Fig. 3 Rear View

V. VOLTAGE AND CYCLE CONVERSION

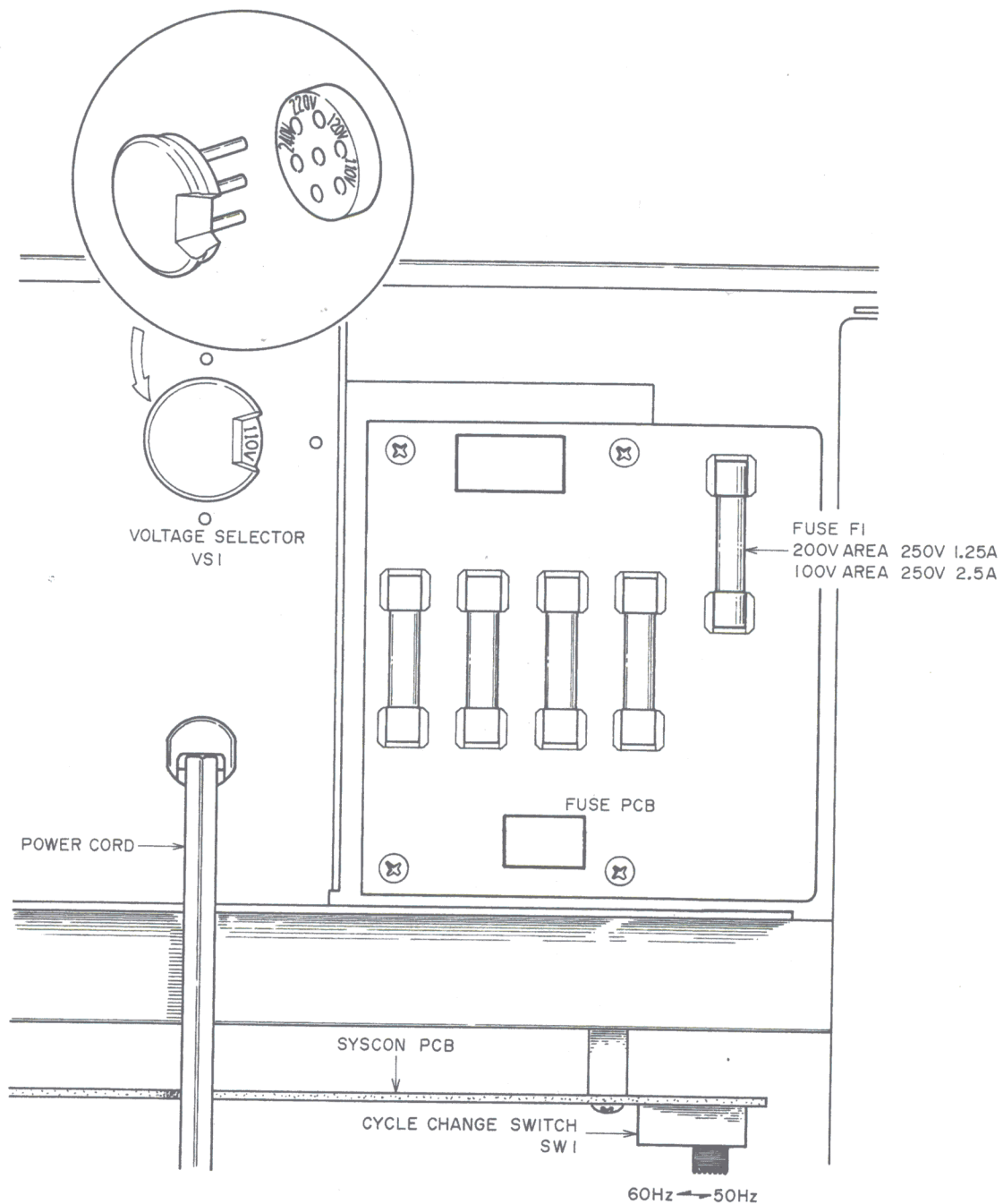


Fig. 4 Voltage Conversion (U/T Model) and Cycle Conversion (U/T, JPN Model)

1. VOLTAGE CONVERSION (Refer to Fig. 4)

- 1) JPN Model (100V, 50/60 Hz)
CSA, AAL Model (120V, 60 Hz)
CEE Model (220V, 50 Hz)
UK, SAA Model (240V, 50 Hz)
Voltage can not be switched.
- 2) U/T Model (110/120/220/240V, 50/60 Hz)
Remove the back board and find out the voltage selector and Fuse P.C Board on the upper portion of the machine. Change the position of voltage selector plugs so that the voltage to be used coincides with the voltage shown through the opening of voltage selector plug.

The rating of fuse (F1) differs depending on the voltage to be used. Change the fuse according to the specified rating shown below.

110/120 V Area	250 V 2.5 A
220/240 V Area	250 V 1.25 A

2. CYCLE CONVERSION (Refer to Fig. 4)

Cycle can be converted only in U/T, JPN Model. Remove the back board and select the position of switch located in the recess at right portion of Syscon P.C Board to correspond to the frequency of power to be used. Move the switch to the right for 50 Hz and to the left for the 60 Hz.

VI. MECHANISM ADJUSTMENT

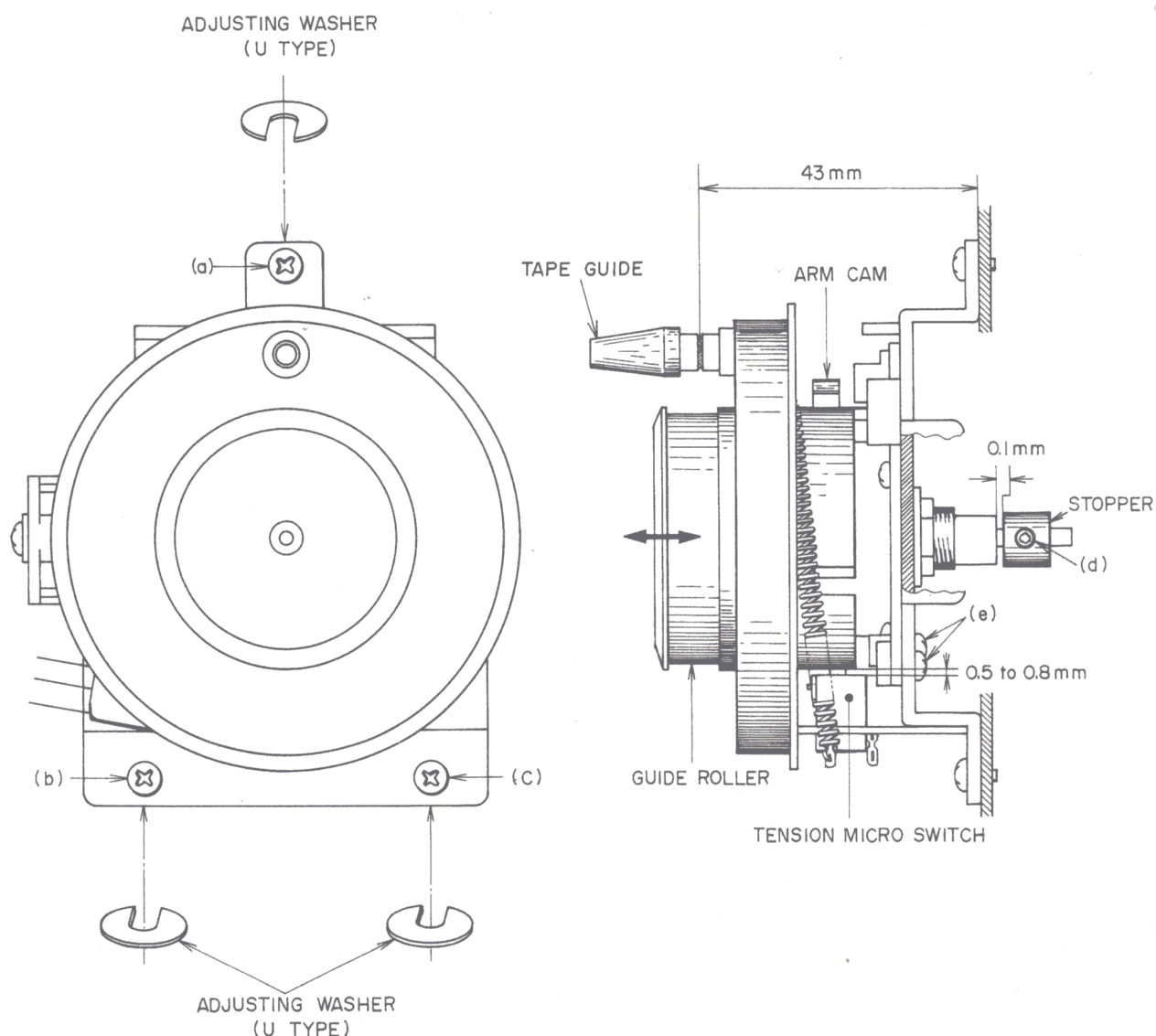


Fig. 5 Roller Block

1. GUIDE ROLLER LOOSE PLAY ADJUSTMENT (Refer to Fig. 5)

Adjust the stopper (roller pulley on the right) screw (d) so that the loose play gap is approximately 0.1 mm when the guide roller is moved as indicated by arrow mark in Fig. 5.

2. TENSION MICRO SWITCH POSITION ADJUSTMENT (Refer to Fig. 5)

Adjust the screws (e) so that the gap between the arm cam and the micro switch is approximately 0.5 to 0.8 mm. Check the the micro switch works and that the arm lock smoothly disengages.

3. ROLLER BLOCK HEIGHT ADJUSTMENT (Refer to Fig. 5)

Use the U type adjusting washers for screws (a), (b), and (c) to adjust the roller block height: the distance between the tape guide center to the chassis board should be 43 mm.

NOTE: Steps 1 and 3 also apply to the right guide roller.

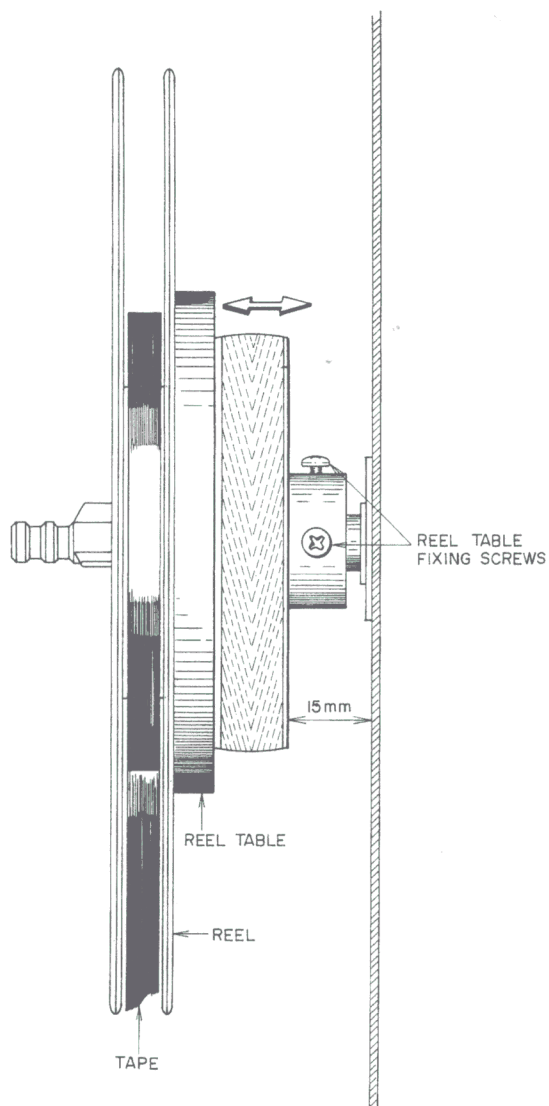


Fig. 6

4. REEL TABLE HEIGHT ADJUSTMENT (Refer to Fig. 6)

- 1) Temporarily screw in the fixing screws leaving a gap of 15 mm between the reel table and the chassis board.
- 2) Run the tape and adjust the height of the reel table so that the tape is taken up in the center of the reel. Tighten fixing screws.
Adjust the height of the right reel table at fast forward, of the left reel table at rewind.

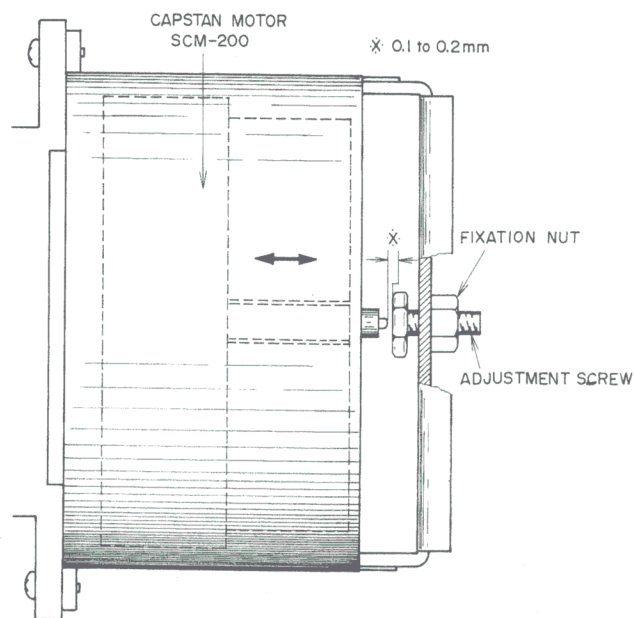


Fig. 7

5. CAPSTAN SHAFT LOOSE PLAY ADJUSTMENT (Refer to Fig. 7)

Adjust by turning Adjustment Screw to obtain a 0.1 to 0.2 mm degree of loose play when the capstan shaft is moved as indicated by the arrow mark. Tighten fixation nut to maintain optimum adjusted condition.

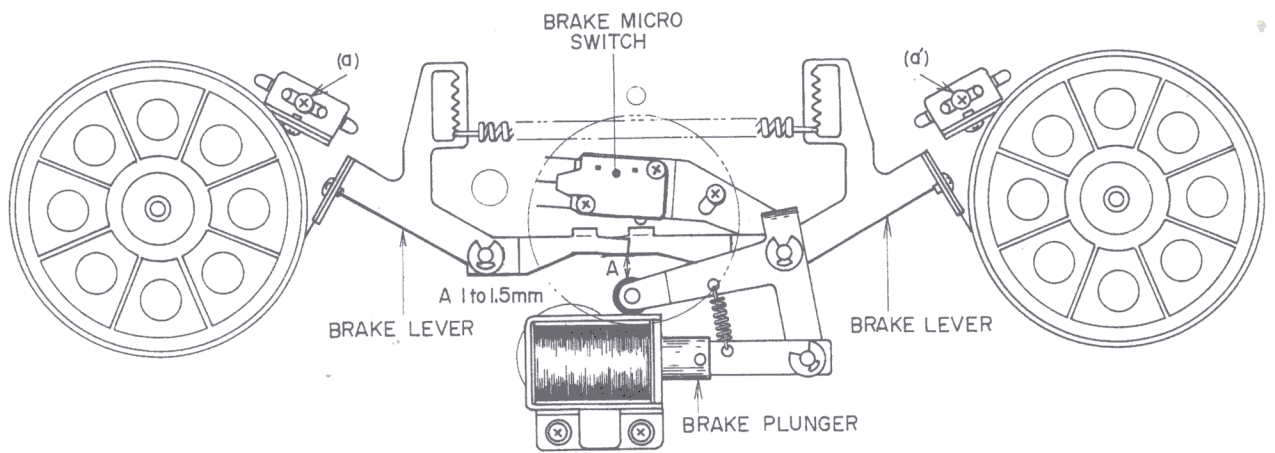


Fig. 8

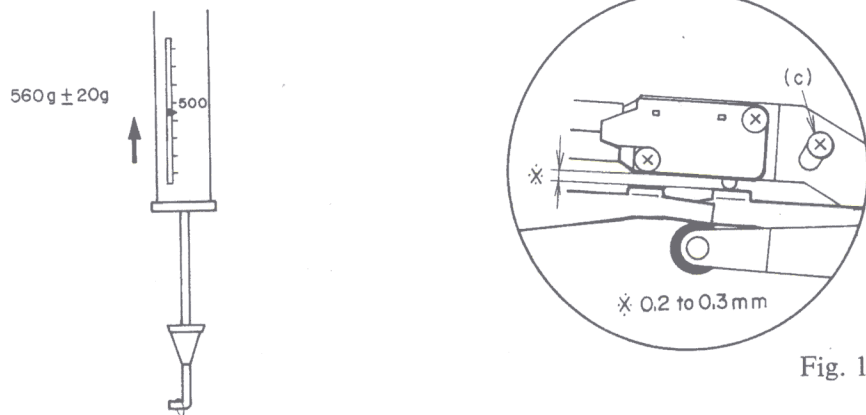


Fig. 10

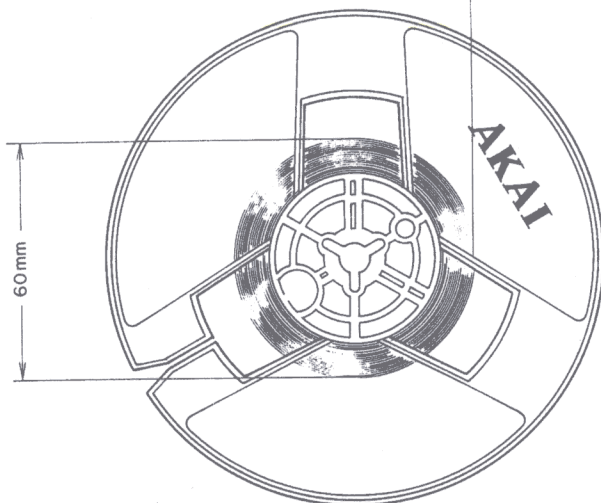


Fig. 9

6. BRAKE BAND POSITION ADJUSTMENT AND BRAKE TENSION ADJUSTMENT (Refer to Figs. 8, 9, 10)

- 1) Adjust the screws (a) and (a') so that the gap A between the brake lever and the rubber is 1 to 1.5 mm.
- 2) Work the brake plunger to check that the brake band is not slanted.
- 3) With the machine stopped, adjust the position of the spring so that a brake tension of 560 ± 20 g is obtained on each brake.
- 4) By working the brake plunger with a finger, adjust the position of the micro switch screw (c) so that the gap between the brake lever and the micro switch body is 0.2 to 0.3 mm.

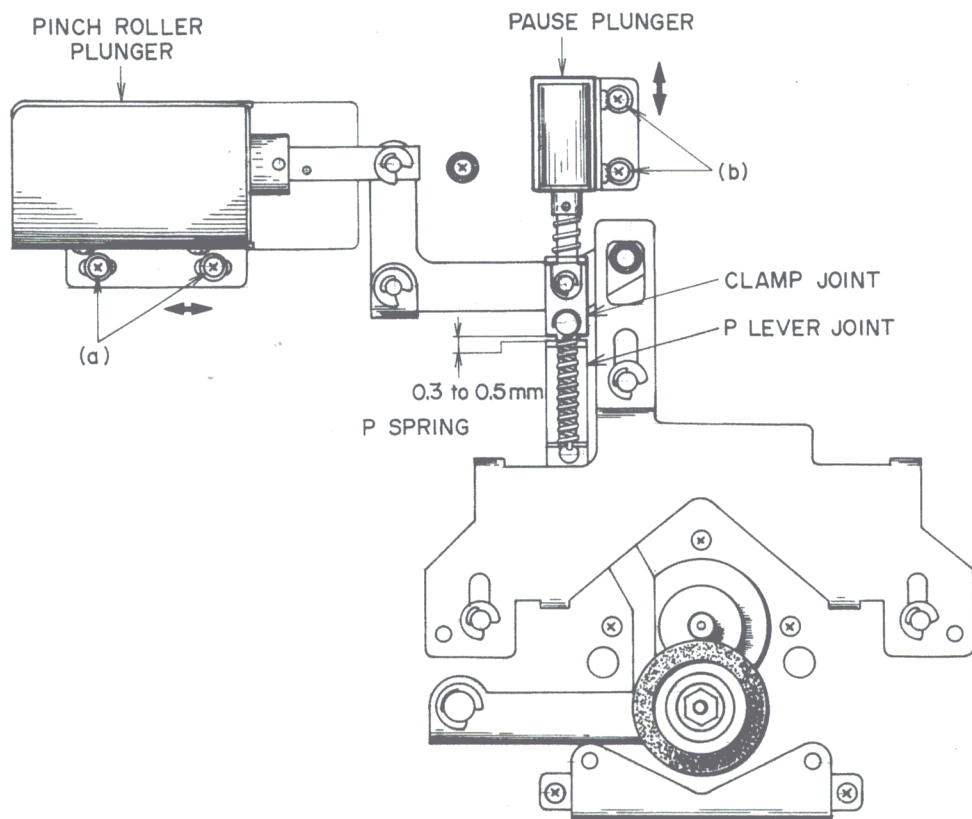


Fig. 11

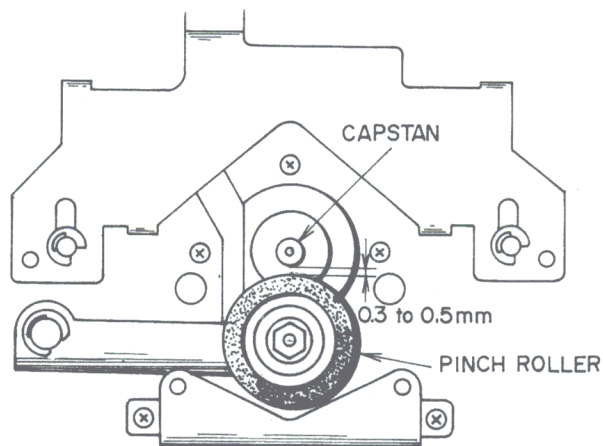


Fig. 12

7. PINCH ROLLER POSITION ADJUSTMENT (Refer to Fig. 11)

At the play mode, the gap between the clamp joint and the P lever joint should be 0.3 to 0.5 mm. Adjust the pinch roller plunger position with screws (a).

8. PAUSE PLUNGER POSITION ADJUSTMENT (Refer to Figs. 11, 12)

At the pause mode, the gap between the capstan and the pinch roller should be 0.3 to 0.5 mm. Adjust the pause plunger position with screws (b).

9. PINCH ROLLER PRESSURE ADJUSTMENT

Connect a 2 kg spring gauge to the pinch roller fixing screws. Pull down the pinch roller and then let it slowly move back. Check that the spring gauge reads 1.2 kg \pm 200 g at the moment the pinch roller touches the capstan and starts rolling.

It reads otherwise, replace the P spring (See Fig. 12)

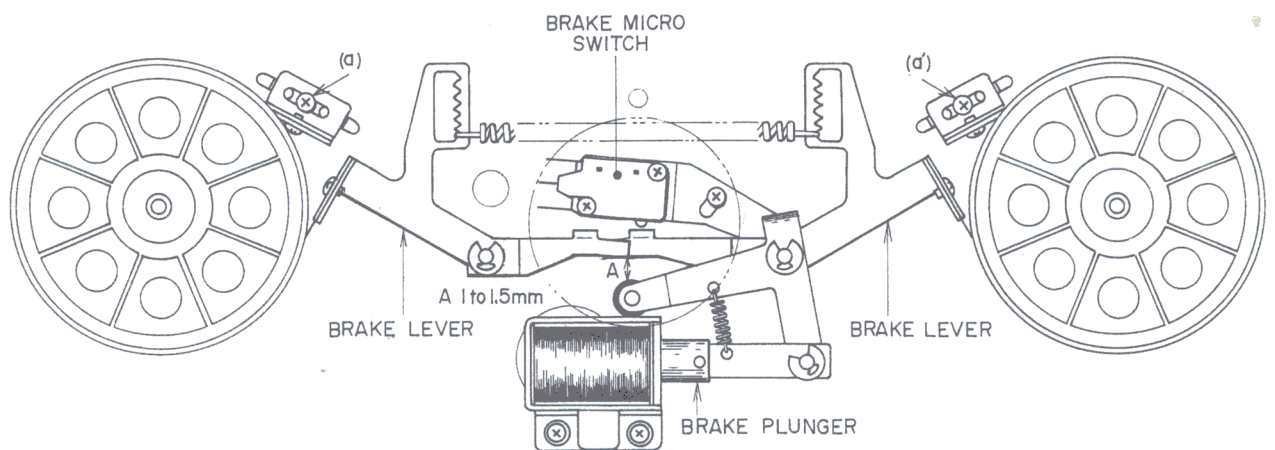


Fig. 8

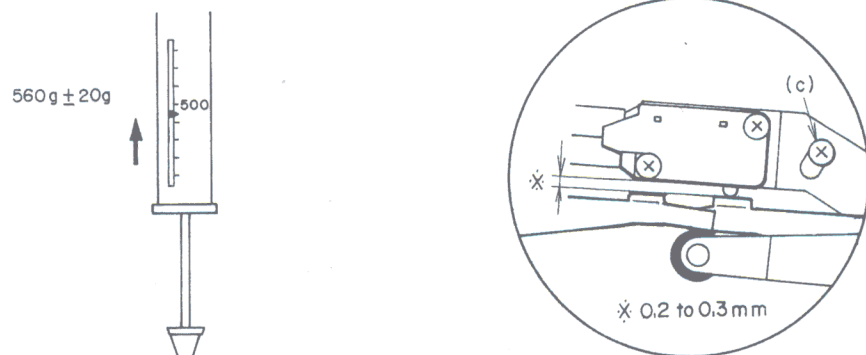


Fig. 10

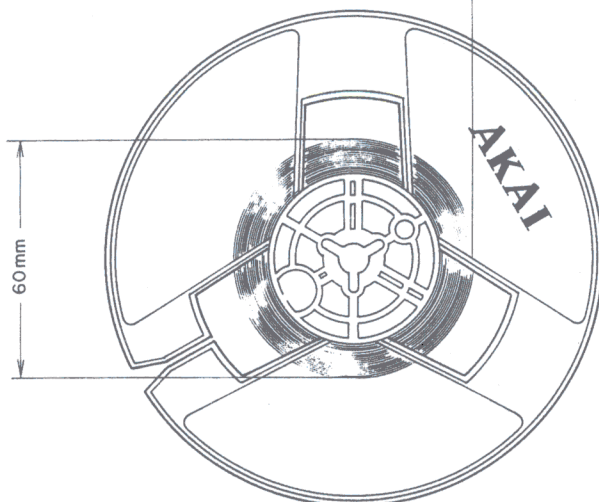


Fig. 9

6. BRAKE BAND POSITION ADJUSTMENT AND BRAKE TENSION ADJUSTMENT (Refer to Figs. 8, 9, 10)

- 1) Adjust the screws (a) and (a') so that the gap A between the brake lever and the rubber is 1 to 1.5 mm.
- 2) Work the brake plunger to check that the brake band is not slanted.
- 3) With the machine stopped, adjust the position of the spring so that a brake tension of 560 ± 20 g is obtained on each brake.
- 4) By working the brake plunger with a finger, adjust the position of the micro switch screw (c) so that the gap between the brake lever and the micro switch body is 0.2 to 0.3 mm.

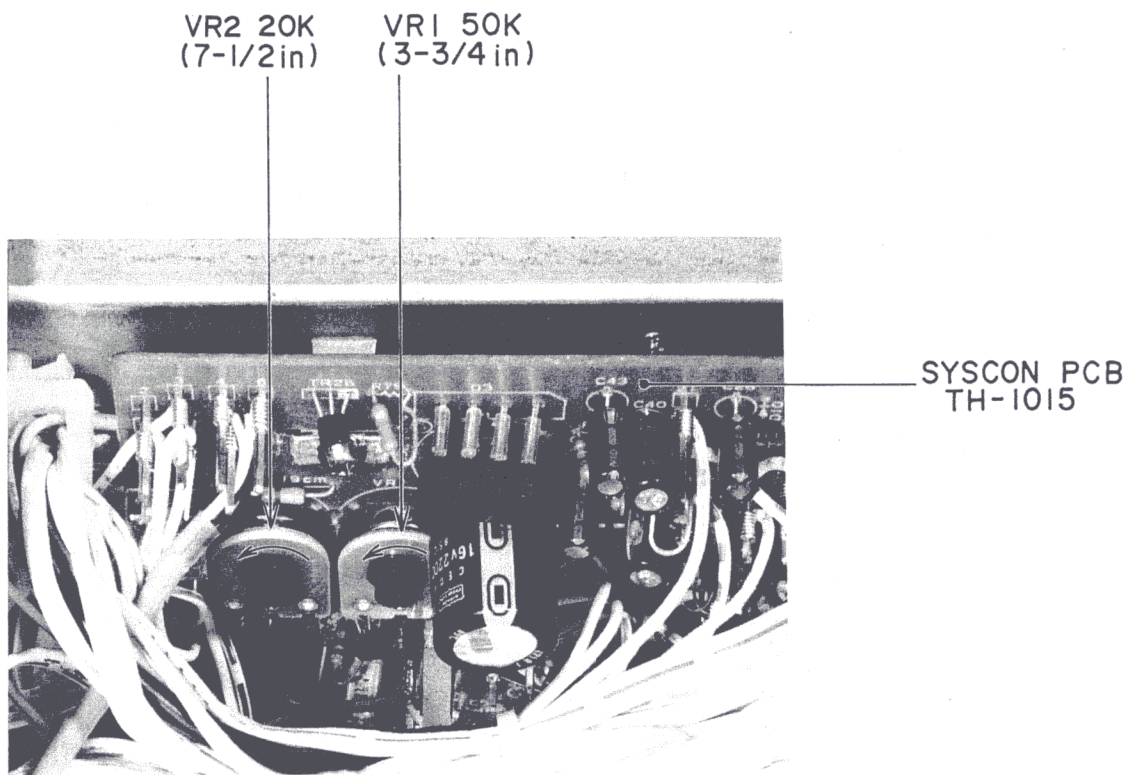


Fig. 13

10. TAPE SPEED ADJUSTMENT

(Refer to Fig. 13)

Set the Tape Speed Switch to 7-1/2 ips. and playback the 1,000 Hz, 7-1/2 Test Tape. Connect a frequency counter to LINE OUT and adjust VR2 20 k Ω until the counter reads, 1,000 Hz \pm 0.5%. Next, set the Tape Speed Switch to 3-3/4 ips. and adjust VR1 50 k Ω until the frequency counter reads 500 Hz \pm 0.5%.

VII. HEAD ADJUSTMENT

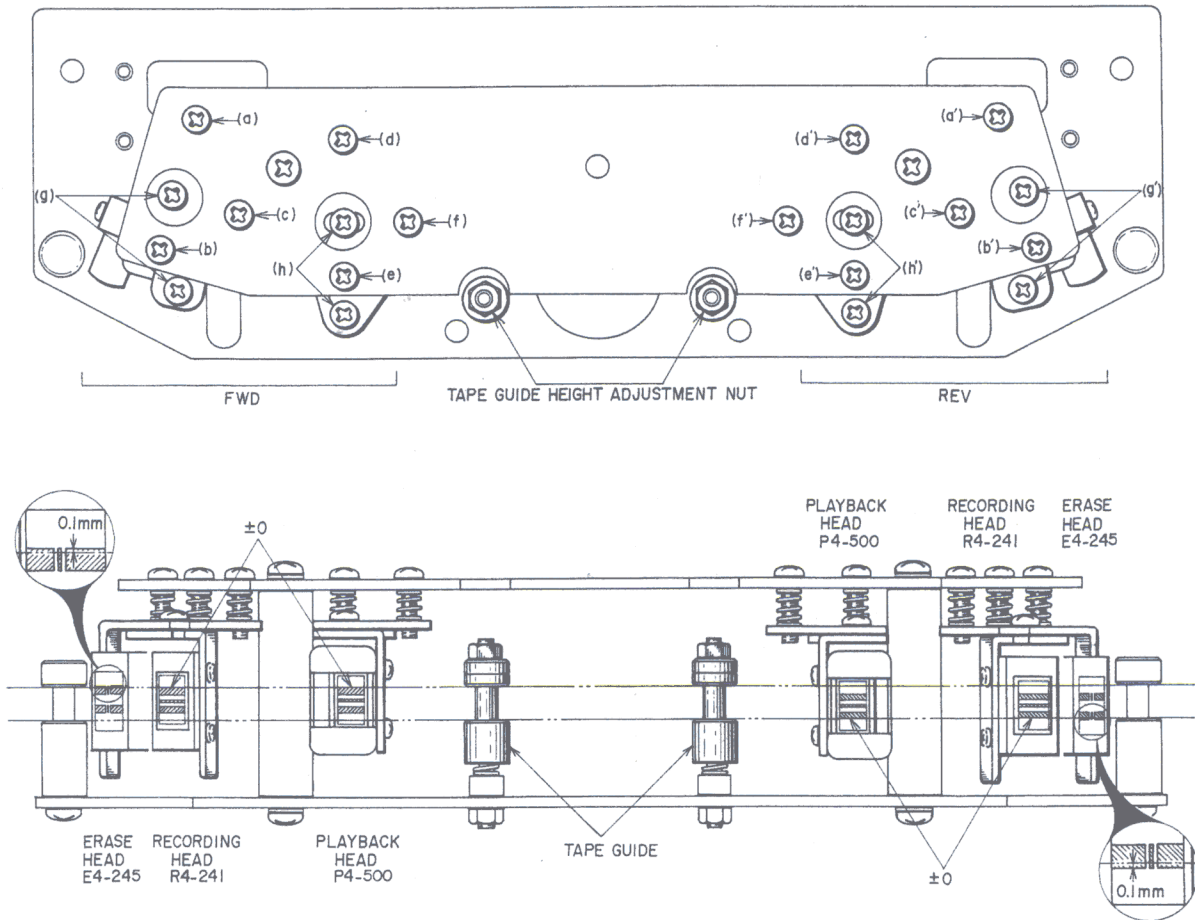


Fig. 14

STEP	ADJUSTMENT ITEM	TEST TAPE SUPPLY SIGNAL	MODE	ADJUSTMENT POINT	REMARKS
1	Tape Guide Height	Optional	FWD	Tape Guide Height Adjustment Nut	1) Adjust so that tape travels smoothly and does not twist. 2) Do not thread tape over tension arm.
2	FWD Recording Head Height	Optional	FWD	(a) (b)	Upper edges of Left Ch. head core and tape are the same height.
3	FWD Erase Head Height Confirmation	Optional	FWD		Upper edge of Left Ch. head core is 0.1 mm higher than upper edge of tape
4	FWD Playback Head Height	Optional	FWD	(d) (e)	Upper edges of Left Ch. head core and tape are the same height.
5	FWD Playback Head Azimuth Alignment	8,000 Hz 3-3/4 ips Test Tape	FWD	(f)	Maximum output, both channels.
6	FWD Playback Head Angle Alignment	8,000 Hz 3-3/4 ips Test Tape	FWD	(h)	Adjust head gap surface so that there is no change in output level when tension is applied to the supply reel side.
7	FWD Recording Head Azimuth Alignment	Maxell UD 15,000 Hz -20 dBm	REC	(c)	Maximum output, both channels. See NOTE 6.
8	FWD Recording Head Angle Alignment	Maxell UD 15,000 Hz -20 dBm	REC	(g)	Adjust head gap surface so that there is no change in output level when tension is applied to the supply reel side.

Fig. 15

- NOTES: 1. As perfect head adjustments are vital to tape deck performance, be sure that these adjustments are carried out properly.
2. Be careful not to use a magnetized driver or other magnetized tools in the vicinity of the heads.
3. Use only new tape as level variation is likely to occur when using old tape.
4. Demagnetize heads with head demagnetizer before and after head adjustment.
5. Set tape speed to 7-1/2 ips.
6. Set Tape Selector Switch to NORMAL Position.
7. Adjustments outlined in Fig. 15 are only for FWD side heads. However, adjustments for REV side heads are exactly the same.

VIII. AMPLIFIER ADJUSTMENT

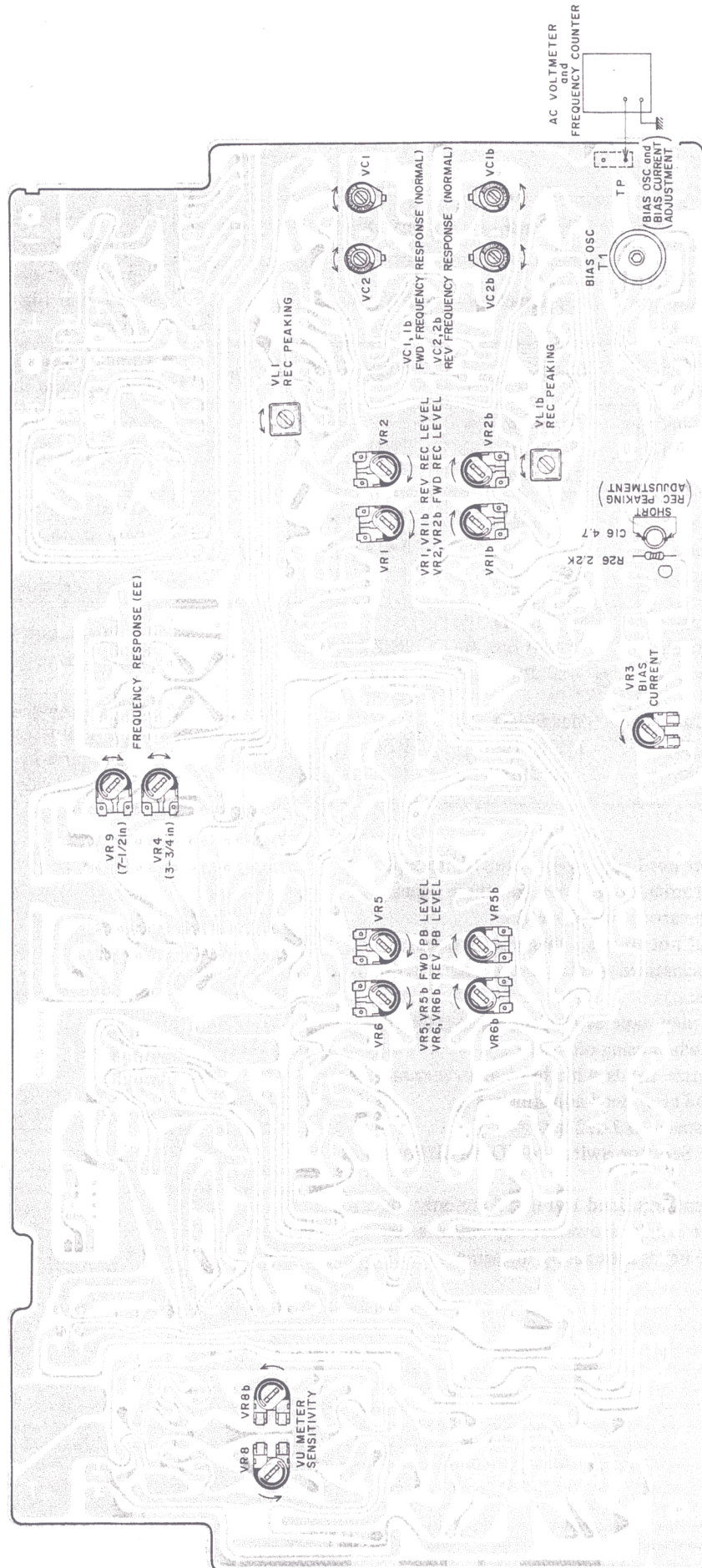


Fig. 16 Pre Amp P.C Board T1009A510A

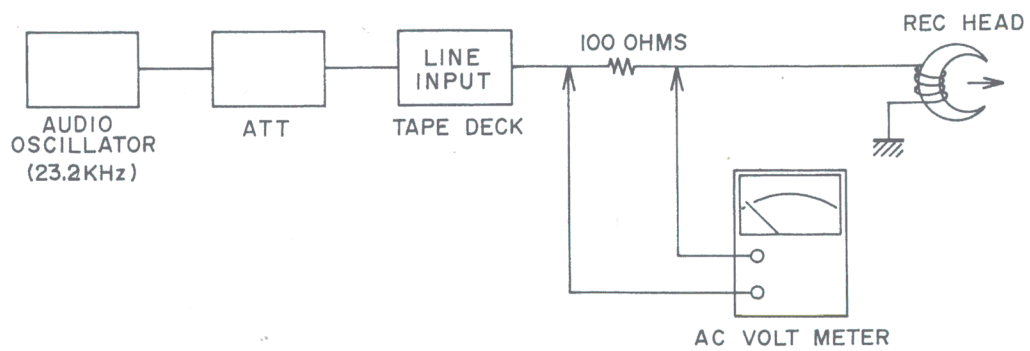


Fig. 17 Rec Peaking Adjustment Instrument Connection

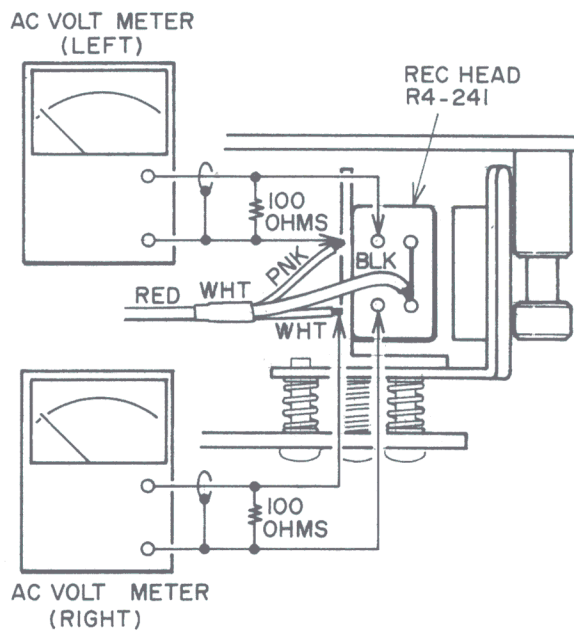


Fig. 18 Rec Peaking Adjustment

STEP	ADJUSTMENT ITEM	TEST TAPE SUPPLY SIGNAL	MODE	ADJUSTMENT POINT	RESULT	REMARKS
1	FWD Playback Level	700 Hz 7-1/2 ips. 0 VU Test Tape	FWD	VR5 50 kB	0 ± 0.5 dBm (0.775V)	
2	REV Playback Level	700 Hz 7-1/2 ips. 0 VU Test Tape	REV	VR6 50 kB	0 ± 0.5 dBm (0.775V)	
3	REC Peaking	23.2 kHz from an Oscillator	REC	VL1 1 mH	Maximum AC Voltmeter indication	Set TAPE SELECTOR to "NORMAL" Tape Speed 3-3/4 ips. See NOTE 6, 7, 9 and Figs. 16, 17, 18.
4	BIAS OSC		REC	T1	100 ± 0.5 kHz	Set TAPE SELECTOR to "NORMAL" Tape Speed 7-1/2 ips. Connect a Frequency Counter between TP and GND. Fig. 16.

STEP	ADJUSTMENT ITEM	TEST TAPE SUPPLY SIGNAL	MODE	ADJUSTMENT POINT	RESULT	REMARKS
5	BIAS Current		REC	VR3 20 kB	135.6 ± 0.5 mV	Set TAPE SELECTOR to "NORMAL" Tape Speed 7-1/2 ips. Connect a AC Voltmeter between TP and GND Fig. 16.
6	FWD Recording Level	NORMAL Blank Tape 1,000 Hz 0 dBm Recording	FWD/REC	VR2 20 kB	0 ± 0.5 dBm (0.775 V)	
7	REV Recording Level	NORMAL Blank Tape 1,000 Hz 0 dBm Recording	REV/REC	VR1 20 kB	0 ± 0.5 dBm (0.775 V)	
8	NORMAL Position FWD Frequency Response	NORMAL Blank Tape 1.5 kHz, 15 kHz -20 dBm Recording	FWD/REC	VC1	1.5 kHz, 15 kHz flat	Tape Speed 3-3/4 ips. Recheck Recording Level.
9	NORMAL Position REV Frequency Response	NORMAL Blank Tape 1.5 kHz, 15 kHz -20 dBm Recording	REV/REC	VC2	1.5 kHz, 15 kHz flat	Tape Speed 3-3/4 ips. Recheck Recording Level.
10	EE Position Frequency Response (3-3/4 ips)	EE Blank Tape 1.5 kHz, 20 kHz -20 dBm recording	FWD, REV/REC	VR4 10 kB	1.5 kHz, 20 kHz flat	Tape Speed 3-3/4 ips. Recheck Recording Level.
11	EE Position Frequency Response (7-1/2 ips)	EE Blank Tape 1.5 kHz, 25 kHz -20 dBm Recording	FWD, REV/REC	VR9 30 kB	1.5 kHz, 25 kHz flat	Tape Speed 7-1/2 ips. Recheck Recording Level.
12	FWD Distortion Confirmation	1,000 Hz 0 dBm Recording	FWD/REC		NORMAL: Less than 0.5% EE : Less than 0.4% See NOTE 8.	
13	REV Distortion Confirmation	1,000 Hz 0 dBm Recording	REV/REC		NORMAL: Less than 0.5% EE : Less than 0.4% See NOTE 8.	
14	VU Meter Sensitivity (JPN)	1,000 Hz 0 dBm from an Oscillator	STOP	VR8 1 kB	0 VU indication	Set MONITOR Switch to "SOURCE"

NOTES: 1. Output Level Control should be at maximum.
2. Except for Steps 3, 8, 9 and 10, set Tape Speed to 7-1/2 ips.
3. Except for Steps 10 to 12 and 13, set Tape Selector Switch to NORMAL Position.
4. Set Bias Adjustment Volume to center position.
5. Use the following open measuring tapes:
NORMAL Tape: Maxell UD
EE Tape : Maxell XLII
TDK SA

6. Stop Recording bias oscillator while making Rec Peaking adjustment (Refer to Fig. 16).
7. When 23.2 kHz indicates the peak, check and ensure that the AC Voltmeter show 16 dB of increase when 15 kHz of input is fed rather than when 1 kHz is fed.
8. If it does not comply with the specifications repeat Steps 6 to 10 and 11, and re-adjust.
9. Unless the core is moved intentionally this adjustment is not necessary.

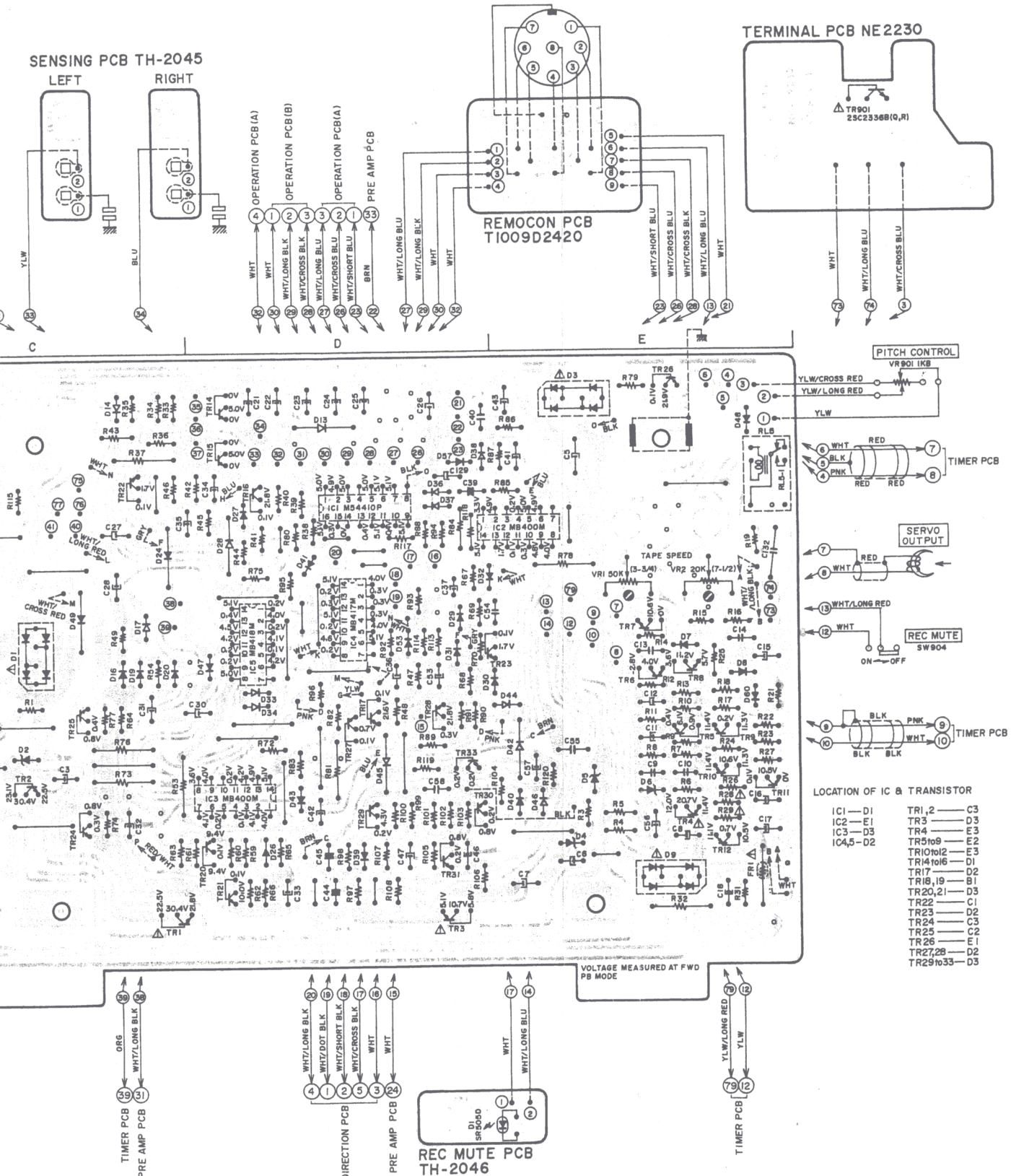
IX. DC RESISTANCE OF VARIOUS COILS

PART	DESIGNATION	DC RESISTANCE
Main Motor	SCM-200	Between BLU-RED: 110 ohms Between YLW-BRN: 170 ohms Pick-up Coil: 665 ohms
Reel Motor	24X0-TD	Between BLU-RED: 30 ohms Between YLW-BRN: 157 ohms
Pinch Roller Plunger	1664PLT1	600 ohms \pm 10%
Brake Plunger	1240PLT1	600 ohms \pm 10%
REV Plunger		
Pause Plunger	0730FLT2	600 ohms \pm 10%
Relay	MY4-02-US-L	650 ohms \pm 15%
Relay	FBR211BD024-M	1,280 ohms \pm 10%
Relay	G2KU	1,000 ohms \pm 10%
Relay	LAB2NS	1,750 ohms \pm 10%
Erase Head	E4-245	3.1 ohms
Recording Head	R4-241	5.9 ohms
Playback Head	P4-500	407 ohms \pm 5%

X. CLASSIFICATION OF VARIOUS P.C BOARDS

1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

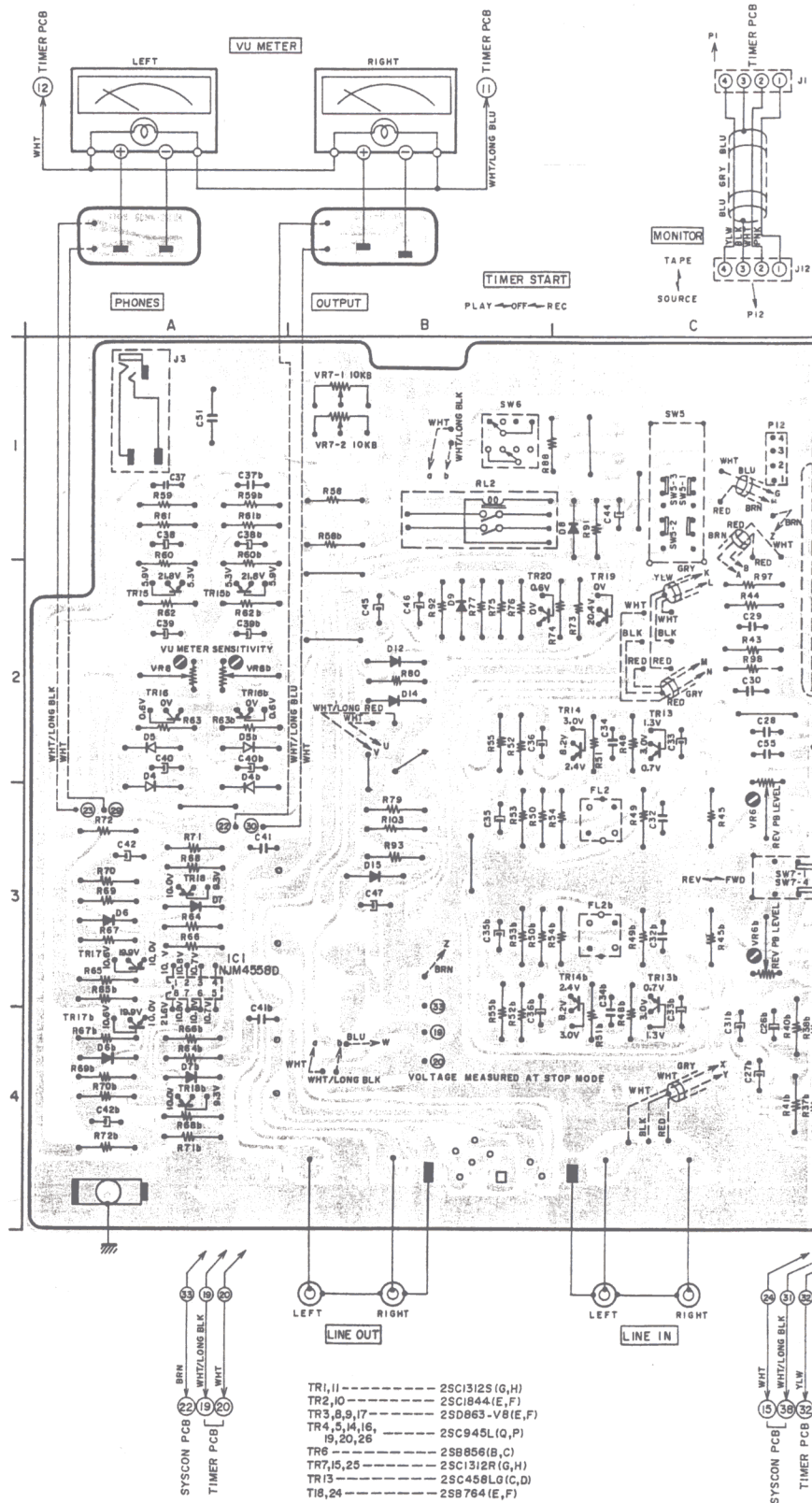
P.C BOARD TITLE	P.C BOARD NUMBER
Pre Amp P.C Board	T1009A510A
VU Meter P.C Board	T1009A510B, C
Equalizer P.C Board	T1009D530A
Bias Adjustment P.C Board	T1009D530B
Remocon P.C Board	T1009D2420
Timer P.C Board	T1014C5010
Mic Amp P.C Board	T1014B5020
Syscon P.C Board	TH-1015
Fuse P.C Board	TH-2040
Operation P.C Board (A)	TH-2041
Operation P.C Board (B)	TH-2042
Direction P.C Board	TH-2043
Reverse P.C Board	TH-2044
Sensing P.C Board	TH-2045
Rec Mute P.C Board	TH-2046
Terminal P.C Board	NE-2230



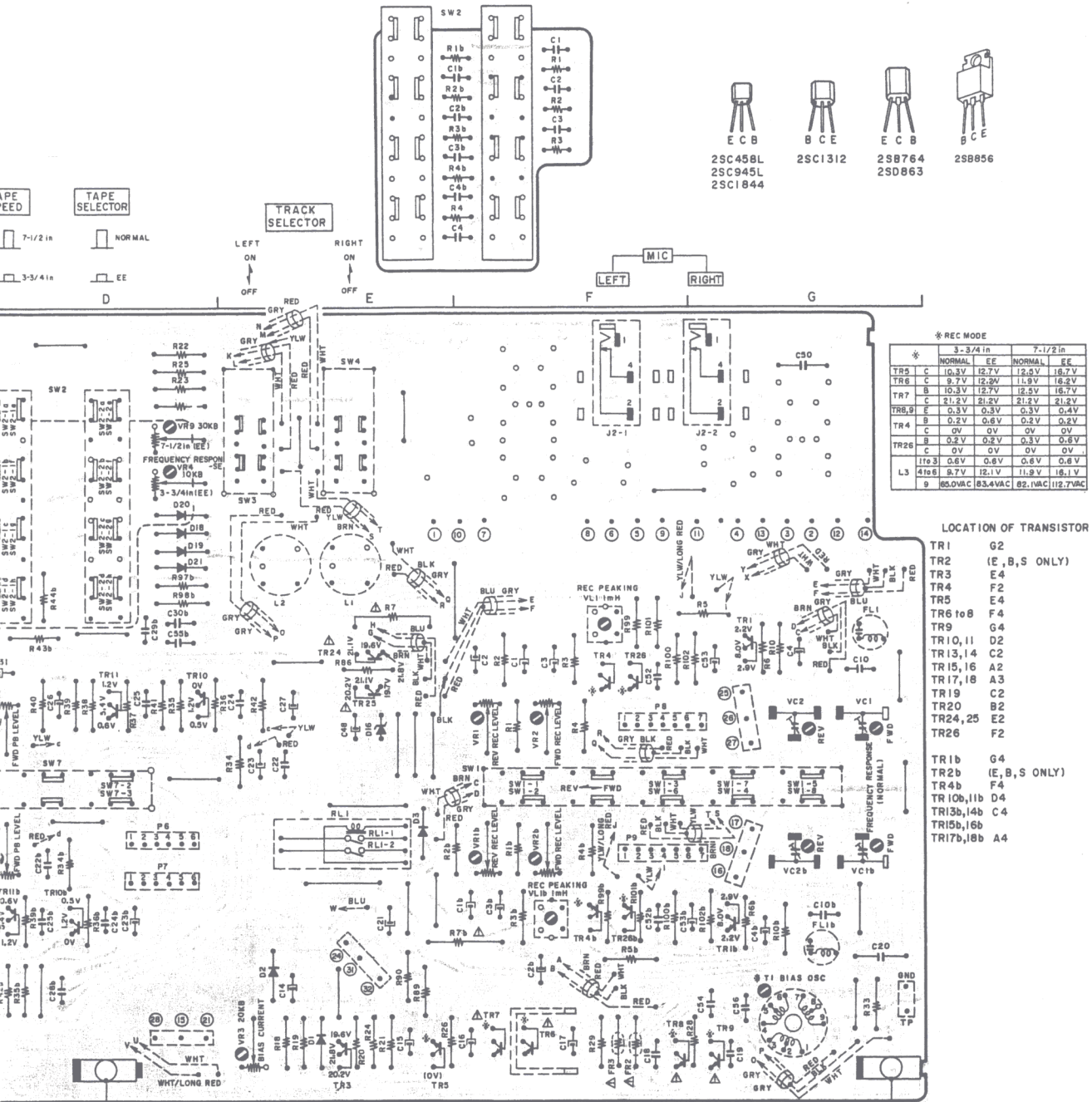
WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: Δ IL INDIQUÉ 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

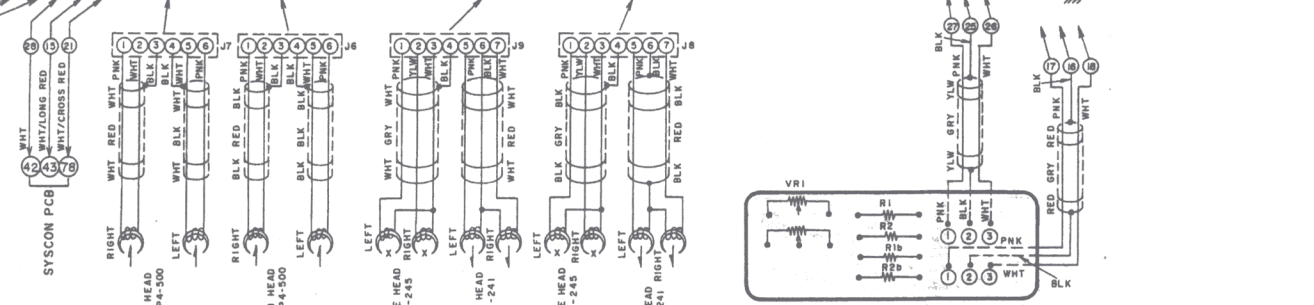
2) Pre Amp P.C Board T1009A510A (2ED), VU Meter P.C Board T1009A510B, C, Equalizer P.C Board T1009A510D



EQUALIZER PCB T1009D530A



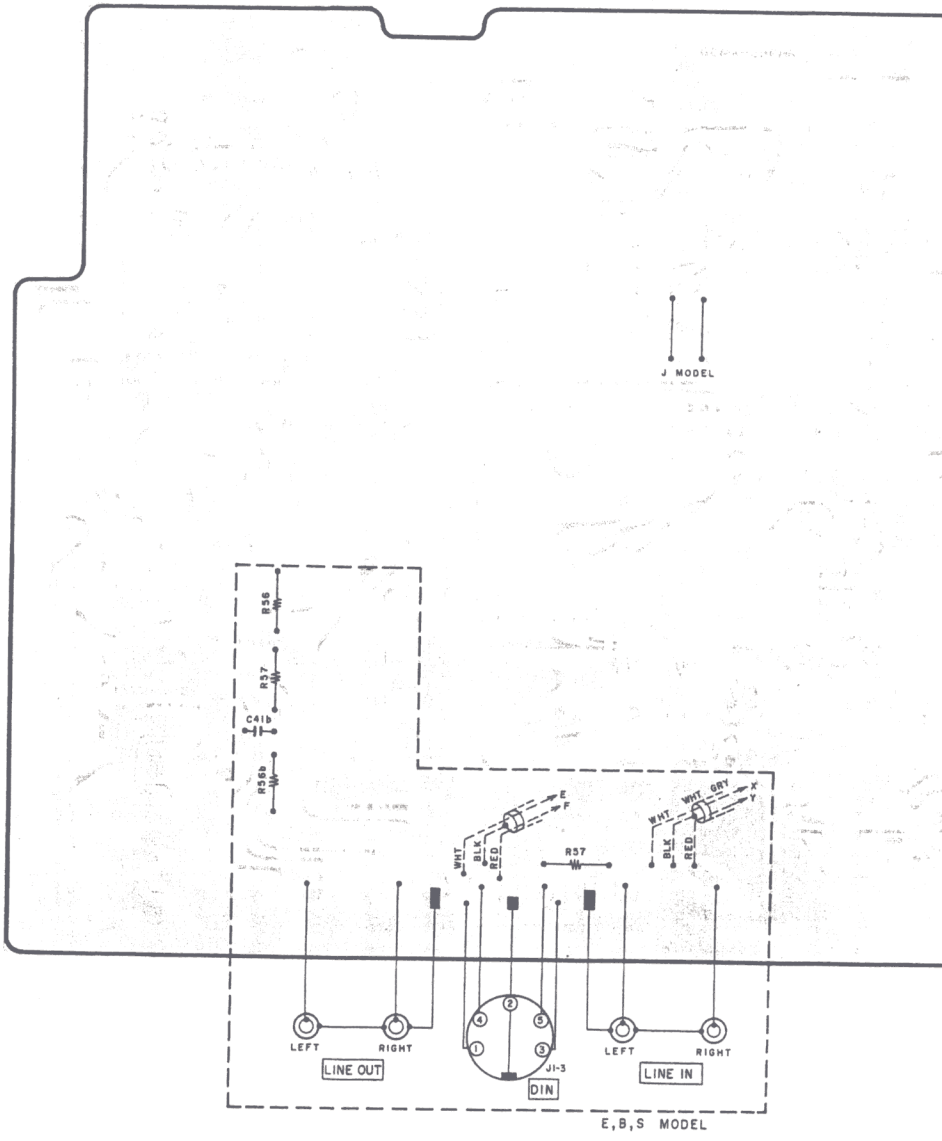
PRE AMP PCB T1009A510A



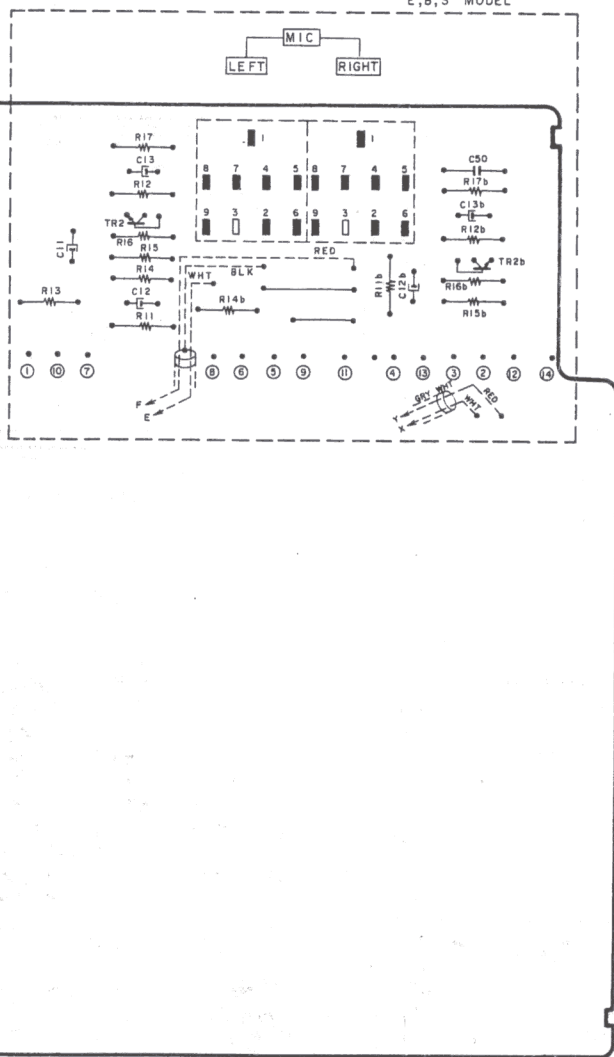
BIAS ADJUST PCB T1009D530B

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

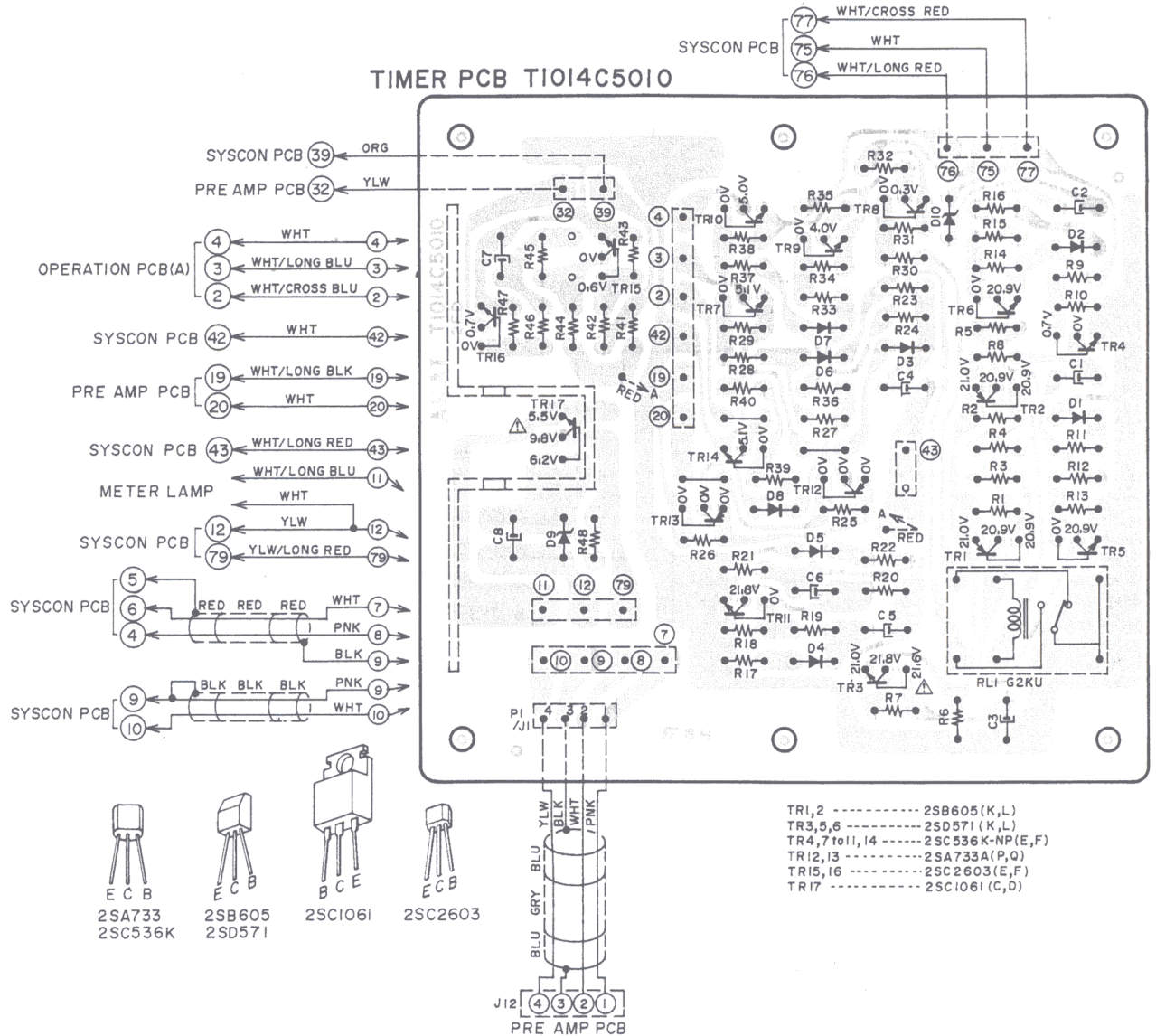
AVERTISSEMENT: Δ IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRÉ DE SÛRETÉ DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SÛRETÉ QUE PAR DES PIÈCES RECOMMANDÉES PAR LE FABRICANT



E, B, S MODEL

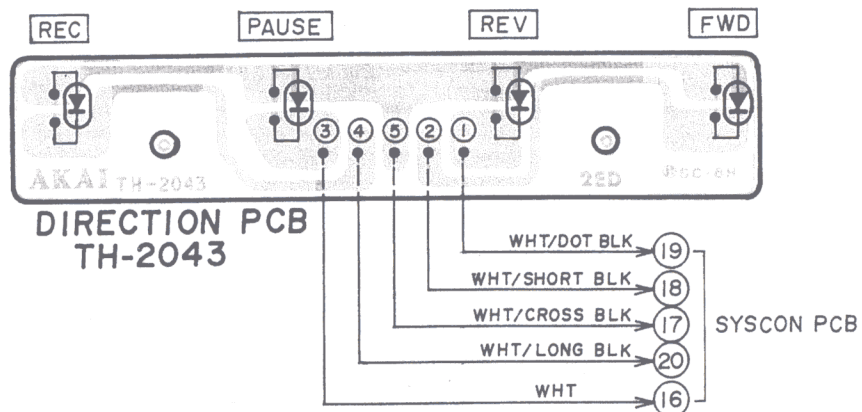


4) Timer P.C Board T1014C5010



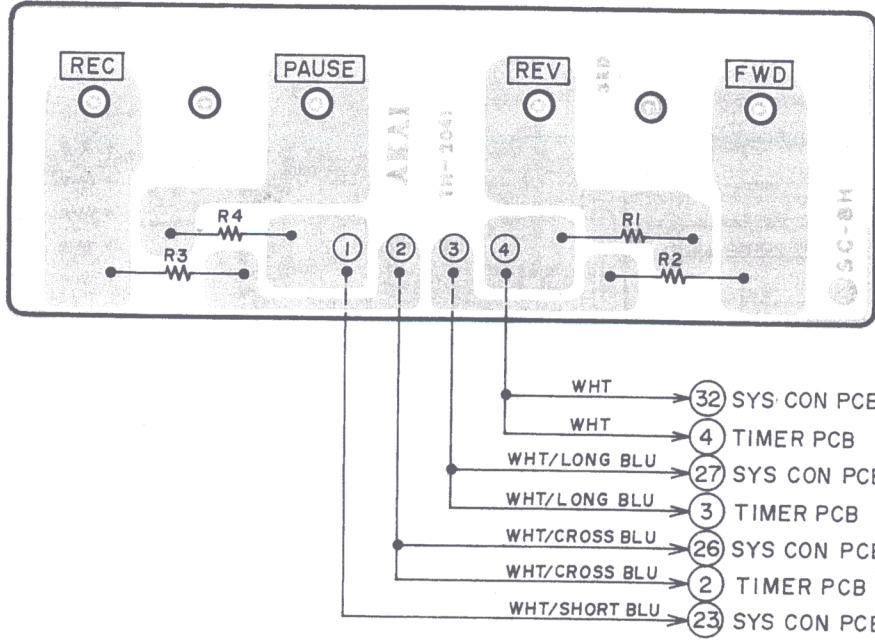
WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
 AVERTISSEMENT: Δ IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRÉ DE SÛRETÉ DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT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

5) Direction P.C Board TH-2043 (2ED)

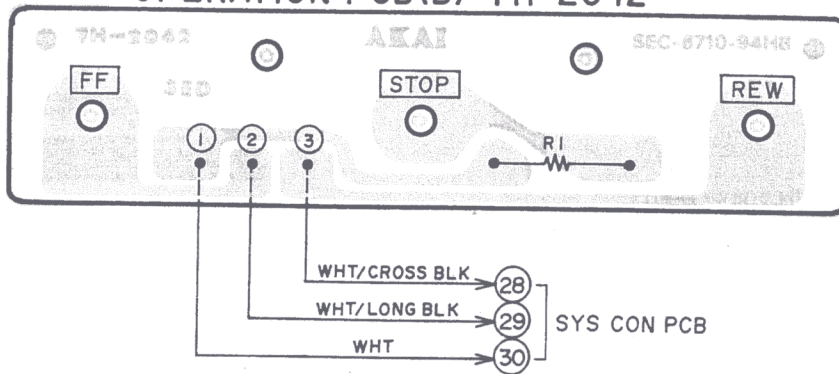


6) Operation P.C Board (A) TH-2041 (3ED) and Operation P.C Board (B) TH-2042 (3ED)

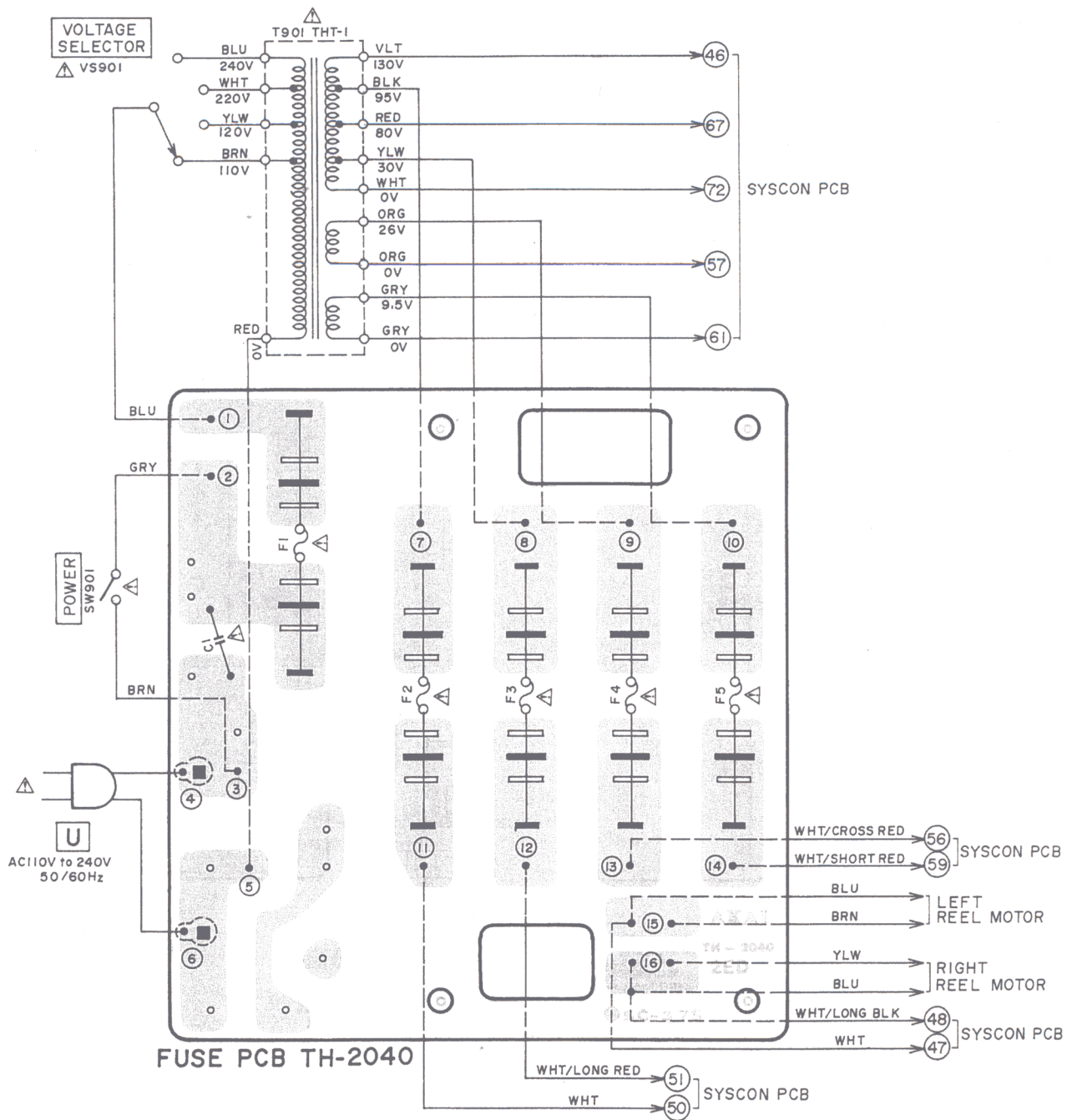
OPERATION PCB(A) TH-2041



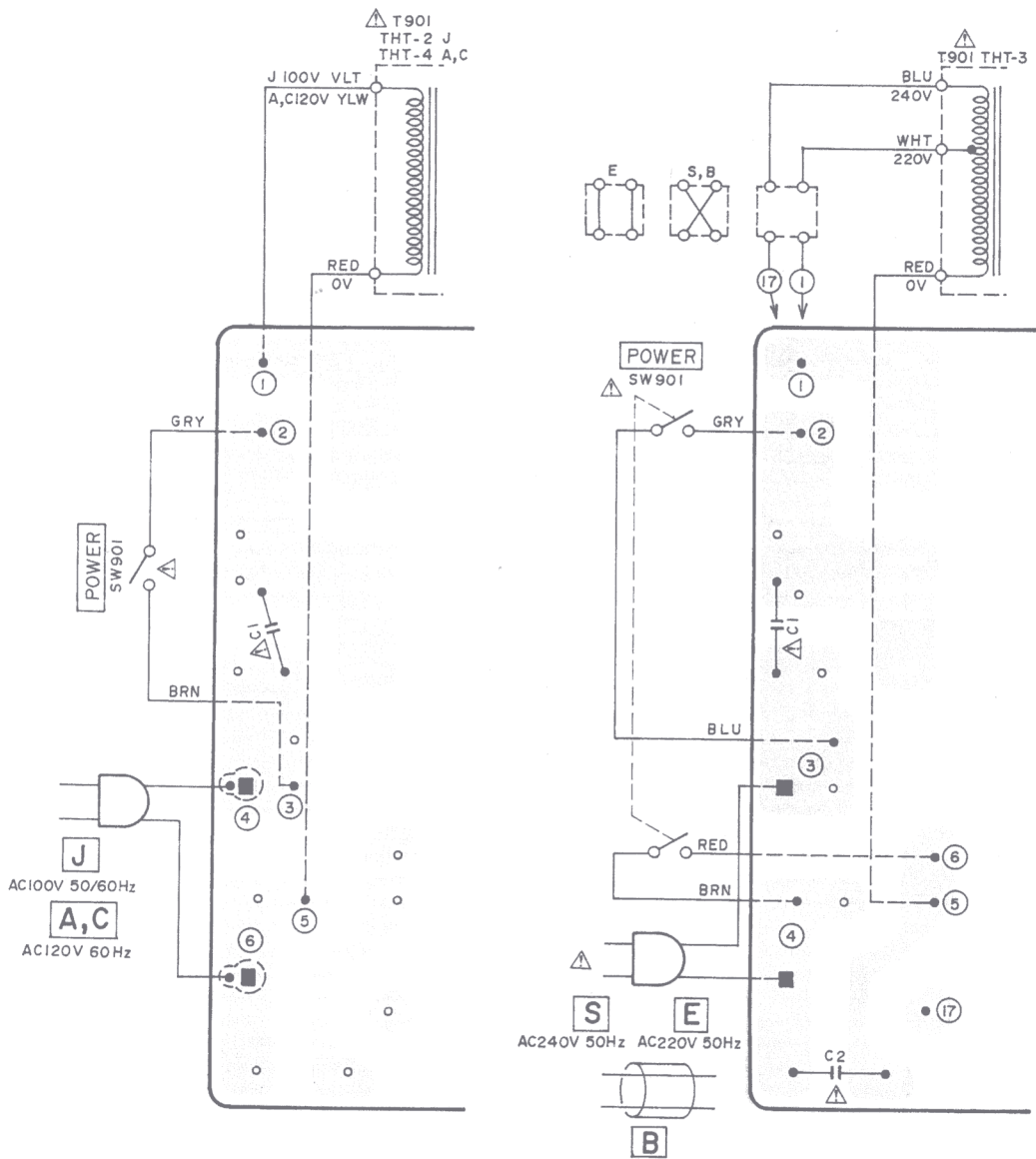
OPERATION PCB(B) TH-2042



7) Fuse P.C Board TH-2040 (2ED)



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



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

