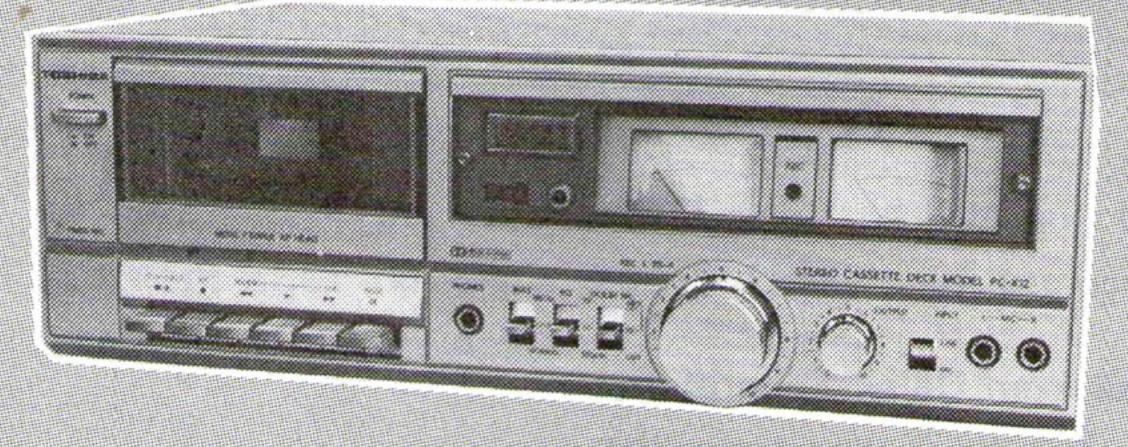
## T(0) 5 H B A

STEREO CASSETTE DECK

# PC-X12,PC-X12B



PC-X12



PC-X128

#### SPECIFICATIONS

Input jacks:

Output jacks:

Weight:

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50 Later																									

European Countries except

U.K.)

240V AC, 50 Hz (for U.K.

and Australia)

120V AC, 60 Hz (for U.S.A.

and Canada)

115V/230V AC, 50/60 Hz

(for Southeast Asia, South

America and Middle East)

Power consumption: 12W

Track system: 4-track 2-channel stereo

Recording/Erasure: AC bias (85 kHz), AC erasure

Heads: Super AP head, and 4 gap

AF erase head

Motor: DC servo-motor

Tape speed: 4.8 cm/sec.

Fast forward/Rewind time: Approx. 90 sec. (C-60)

Semiconductors: 4 ICs, 17 transistors, 6 diodes

Wow & flutter: 0.06% (WTD RMS)

S/N Ratio: 60 dB with metal tape

58 dB with chrome position

tape (Line, peak, WTD)

Dolby NR: Noise level improved by 5 dB

at 1 kHz, and by 10 dB at

5 kHz

Frequency response: 30 Hz - 12.5 kHz for metal

tapes at 0 dB

30 Hz — 8 kHz for chrome

position tapes at 0 dB

30 Hz = 18 kHz for metal

tapes at -20 dB

30 Hz — 16 kHz for chrome

position tape at -20 dB

30 Hz = 15 kHz for normal

tapes at -20 dB

MIC: 0.25mV (600 ohm –

10K ohm)

LINE: 70mV (50K ohm

min.)

LINE: 0.4V (50K ohm)

HEADPHONES: 0.2mW

(8 ohm)

Main dimensions: 420(W) x 142(H) x 272(D)

mm (including rubber feet

and front panel controls)

4.3 kg

Accessories: Connection cords ...... 2

Head cleaning swab ..... 1

Specifications are subject to change without notice.

TE, TU, AY, TA, TC, VF

#### CONTENTS

1.	FEATURES	2
2.	OPERATING CONTROLS	4
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4.	DISASSEMBLY INSTRUCTIONS	6
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6.	P.C. BOARD PARTS LOCATIONS	9
7.	SCHEMATIC DIAGRAM	0
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### DOLBY SYSTEM

\* Noise Reduction System is manufactured under license from Dolby Laboratories. "DOLBY" and the Double-D symbol are Trademarks of Dolby Laboratories Inc.

#### 1. FEATURES

#### Metal tape

The PC-X12/X12B is specially equipped with the super AP (super hard permalloy) head, featuring higher maximum magnetic density and improved linearity, and a high-efficiency 4 gap AF (ferrite) erase head. With these high-performance heads, the PC-X12/X12B has been designed to make the most of the latest extra-high-quality metal tapes. Both tape heads are very hard and resistant to wear, thus giving extended life.

- Independent 3-position bias and equalization selectors.
- Timer recording, and "morning alarm" playback.
   When connected to an audio timer (optional), the PC-X12/X12B can make timer recordings and timer playback (for morning alarm with your own selected music).

- Dolby NR system
- Soft-eject system
- Review and cueing functions convenient in finding a particular part of a recording.
- One-touch recording
- Metal tape setting indicator
- Output level control
- Input selector switch

#### 2. OPERATING CONTROLS

(The photographs are ones of PC-X12, European Model)

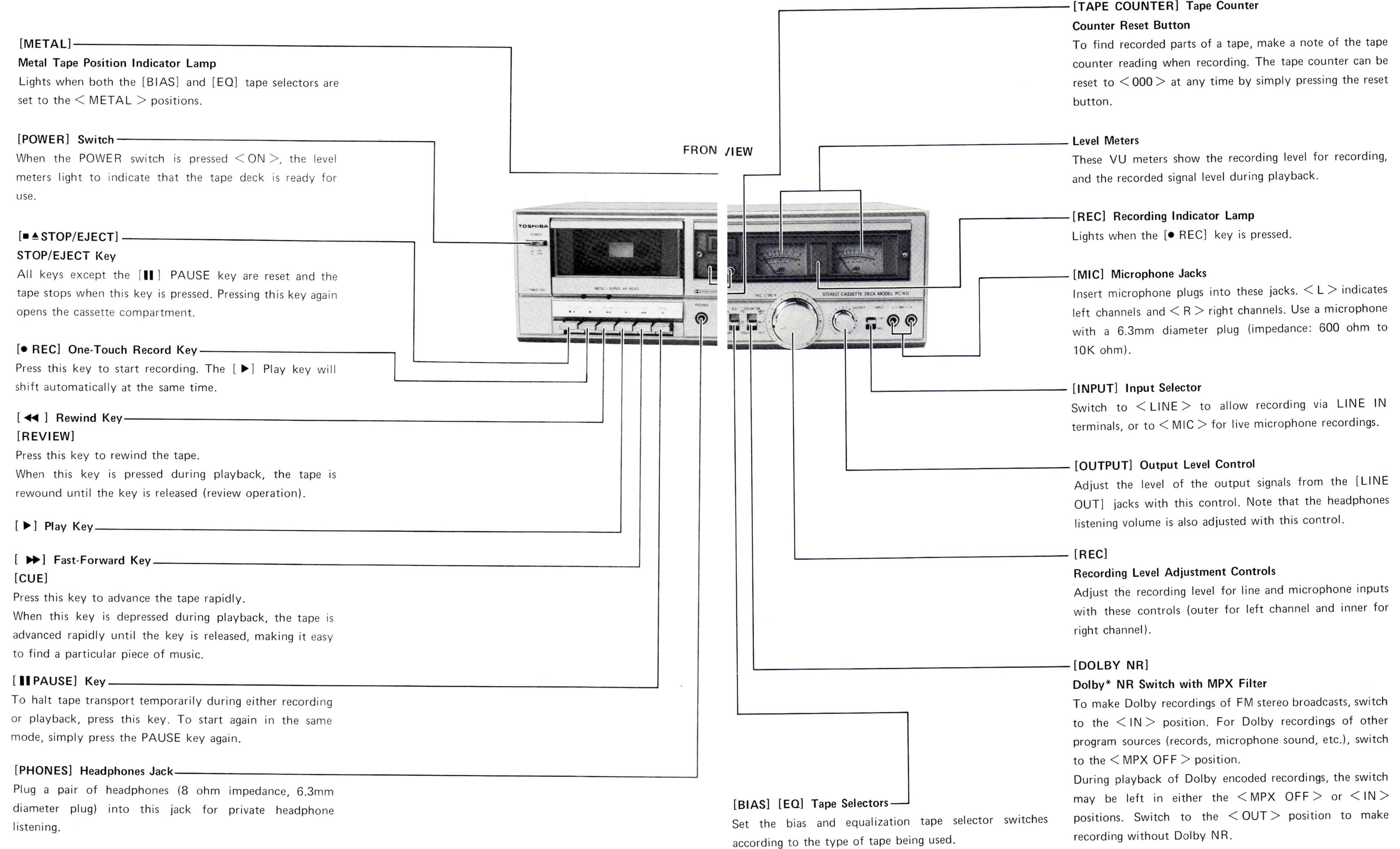
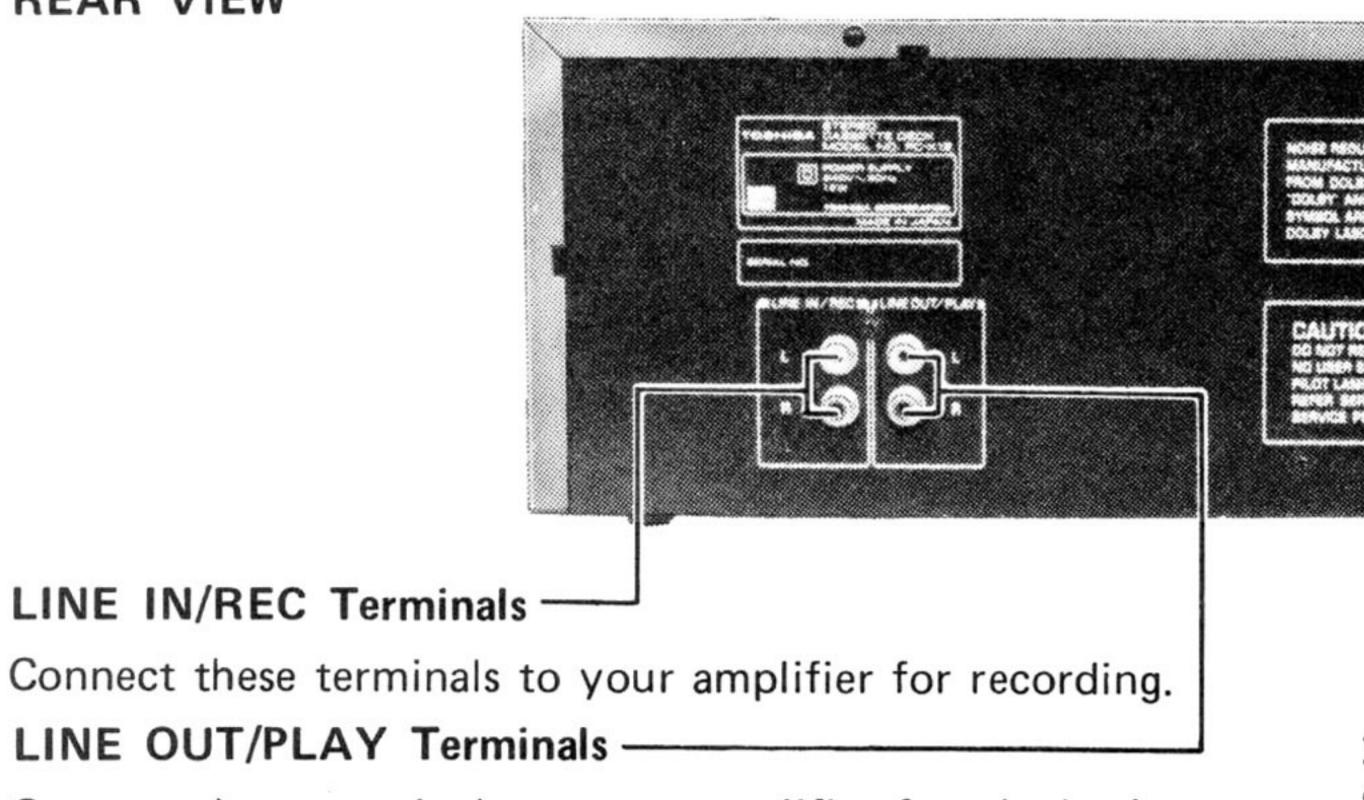


Figure 1.

(The photographs are ones of PC-X12, European Model)





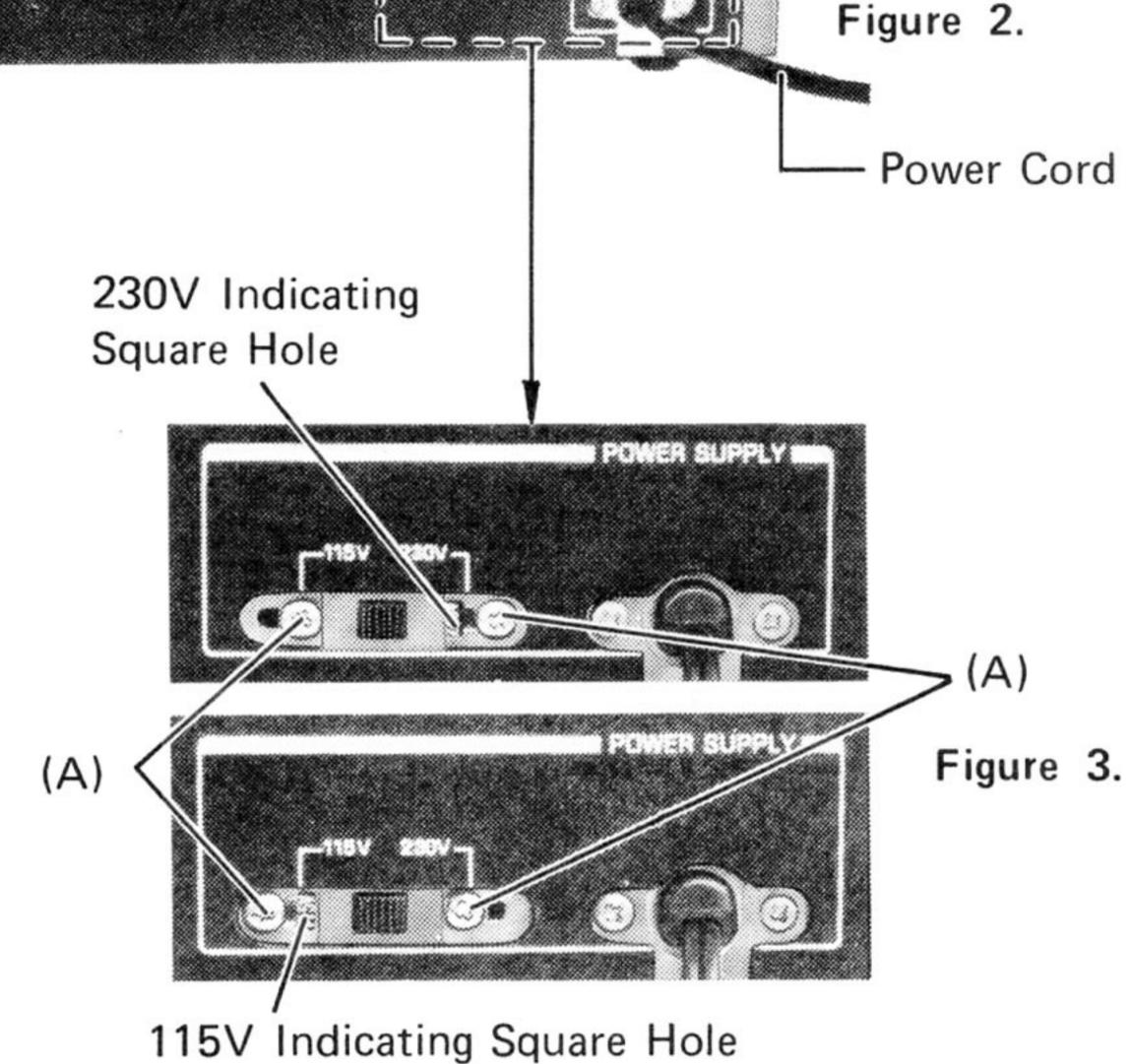
Connect these terminals to your amplifier for playback.

#### VOLTAGE CONVERSION FOR PC-X12-VF

(Models for Southeast Asia, South America and Middle East)

The voltage selector switch must be changed as follows:

- 1. Loosen two BID screws (A) (344, 3¢ x 10mm) to their halves holding the jack plate and the switch (S7). Their tips have been already locked but by exceeding to loosen them, the switch may get out of place. When they become tighter, don't loosen them moreover.
- 2. Slide the washers and screws (A) to the right or left side by using your finger tips. (In this case, be careful not to injure the jack plate with the washers.)
- 3. After confirming that the "115V" or "230V" printed on the jack plate indicates same voltage as on the label of the switch through the holes at the each side, tighten the two screws (A). (See figure 3.)



**NOTE:** Ordinary unit has been already set to the "230V" position.

#### 3. BLOCK DIAGRAM

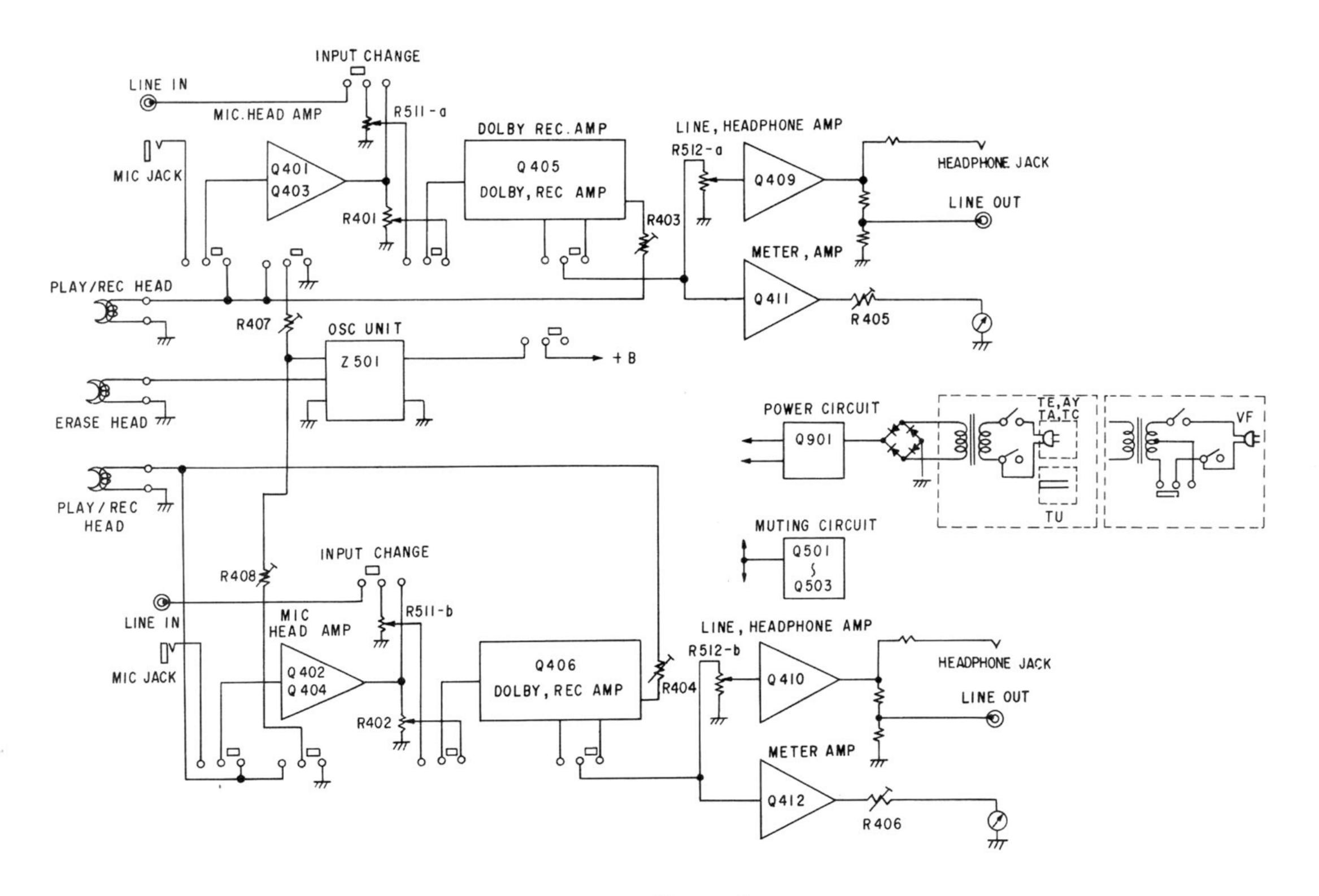
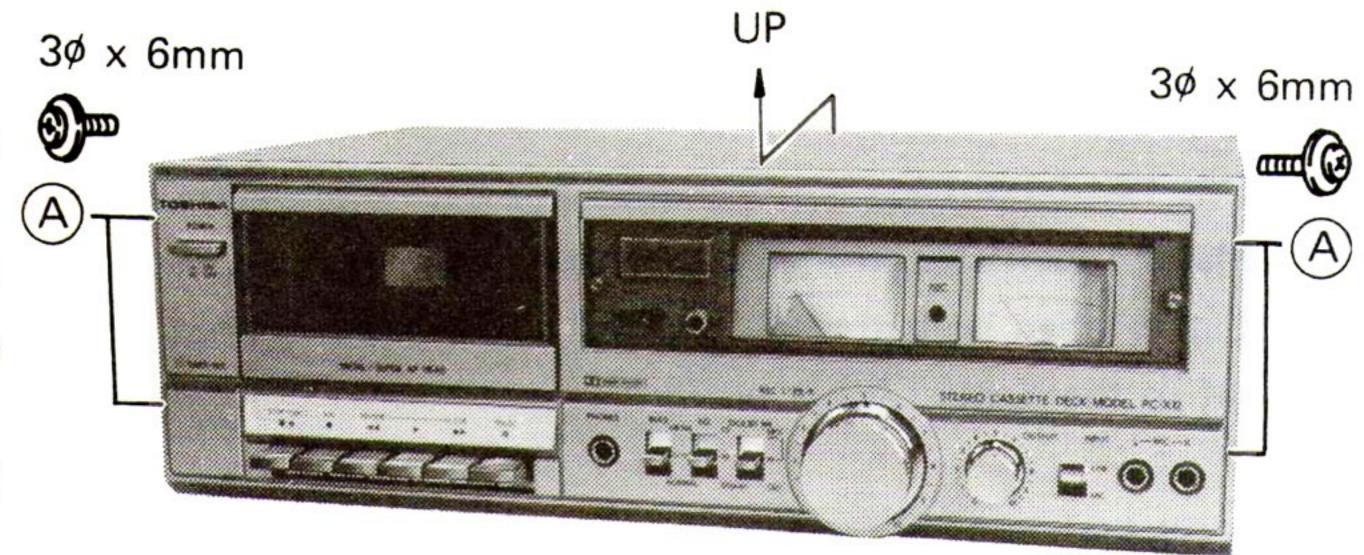


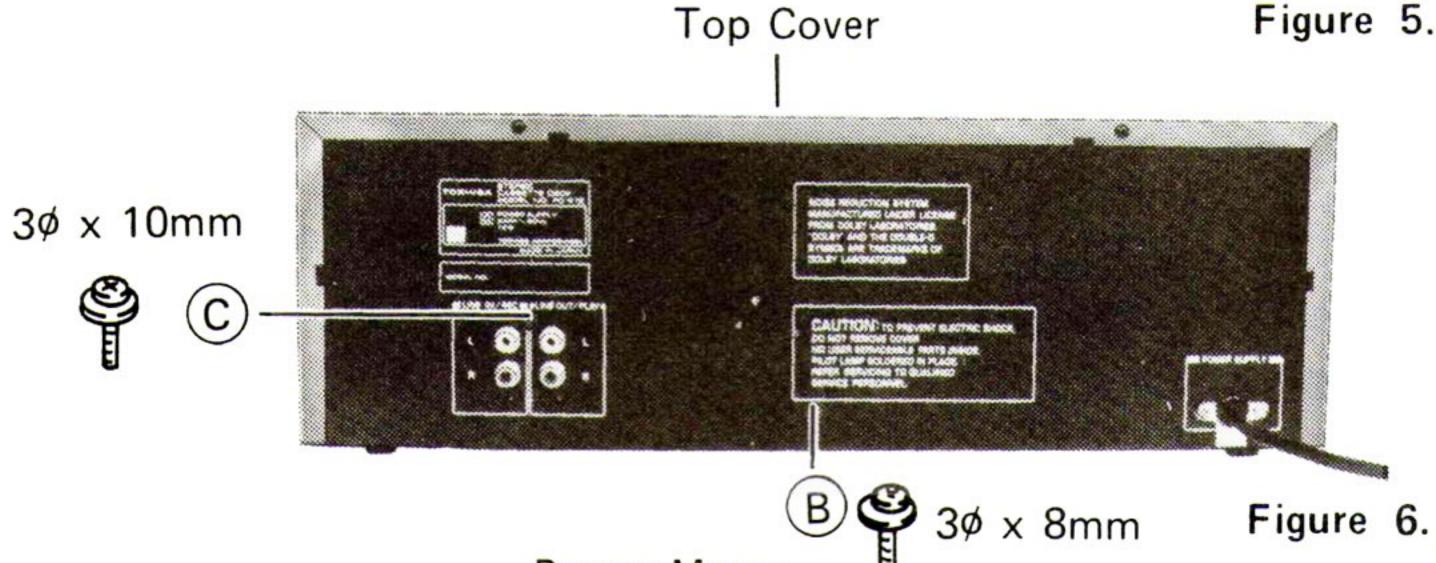
Figure 4.

#### 4. DISASSEMBLY INSTRUCTIONS

#### TOP COVER REMOVAL

- 1. Remove 4 screws (A) (3¢ x 6mm with washer) which secures the top cover from both sides. (See figure 5.)
- 2. Remove 1 screw B (3ø x 8mm with washer) and 1 screw C (3ø x 10mm with washer) which hold the rear jack board. (See figure 6.)
- 3. Remove the top cover by holding up the front panel after raising the rear of the set.



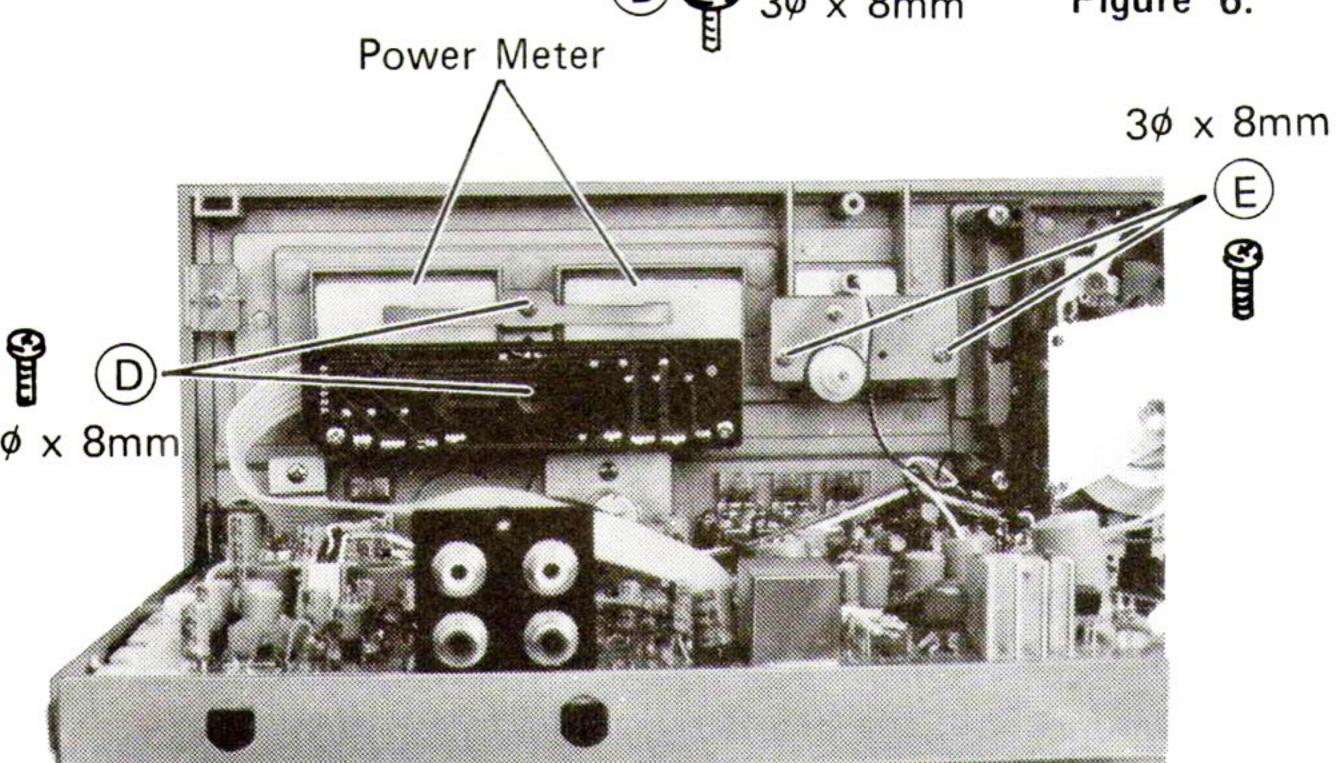


#### METER REMOVAL

1. Remove the meter by removing 2 screws (D) (3¢ x 8mm, Tapping) which secure the panel and meter mounting board. (See figure 7.)

#### COUNTER REMOVAL

1. Remove the counter by removing 2 screws (E) (3¢ x 3¢ x 8mm 8mm, Tapping) which secure counter mounting board and the panel. (See figure 7.)



#### MECHANISM ASSEMBLY REMOVAL

- 1. Remove 2 screws F (3¢ x 8mm, Tapping) which hold the power switch board for easy removal of mechanical assembly. (See figure 8.)
- 2. Remove the spring at the right of the set.
- 3. Remove the door lever from damper assembly.
- 4. Remove one screw G (2.6¢ x 8mm) which holds the door lever and the panel. (See figure 9.)
- 5. Remove the mechanical assembly from the body by removing 4 screws  $\widehat{H}$  (3 $\phi$  x 25mm, Tapping) which fix the mechanical assembly to the panel. (See figure 8.)

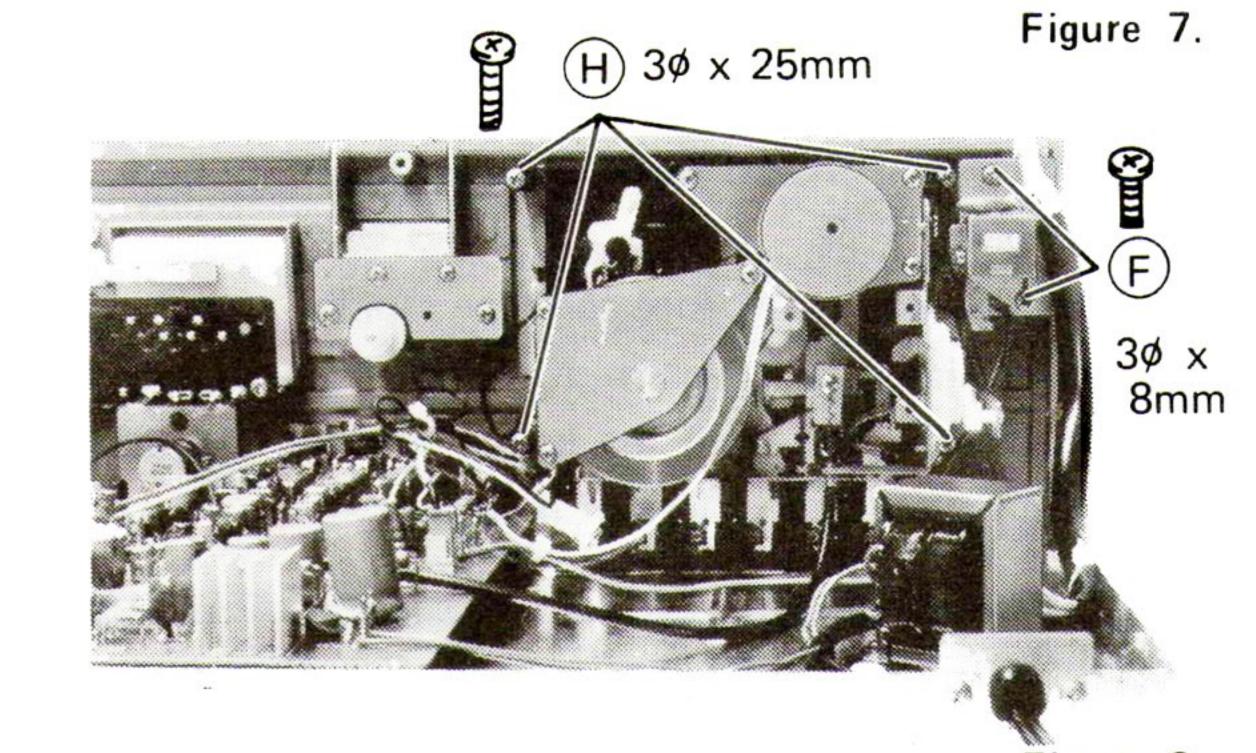


Figure 8.

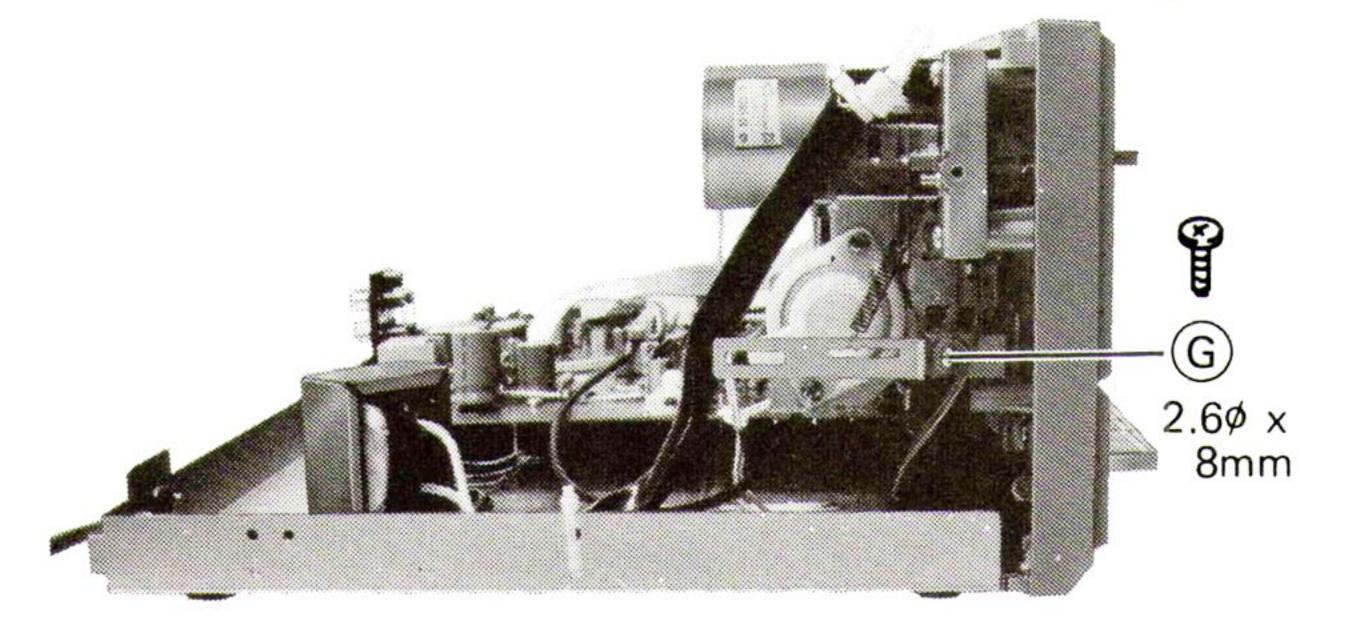


Figure 9.

#### CASSET COVER REMOVAL

- 1. Remove the top cover and mechanical assembly.
- 2. Detach the cassette cover by removing two screws (1) (3¢ x 8mm, Tapping) which hold the panel and cassette cover. (See figure 10.)

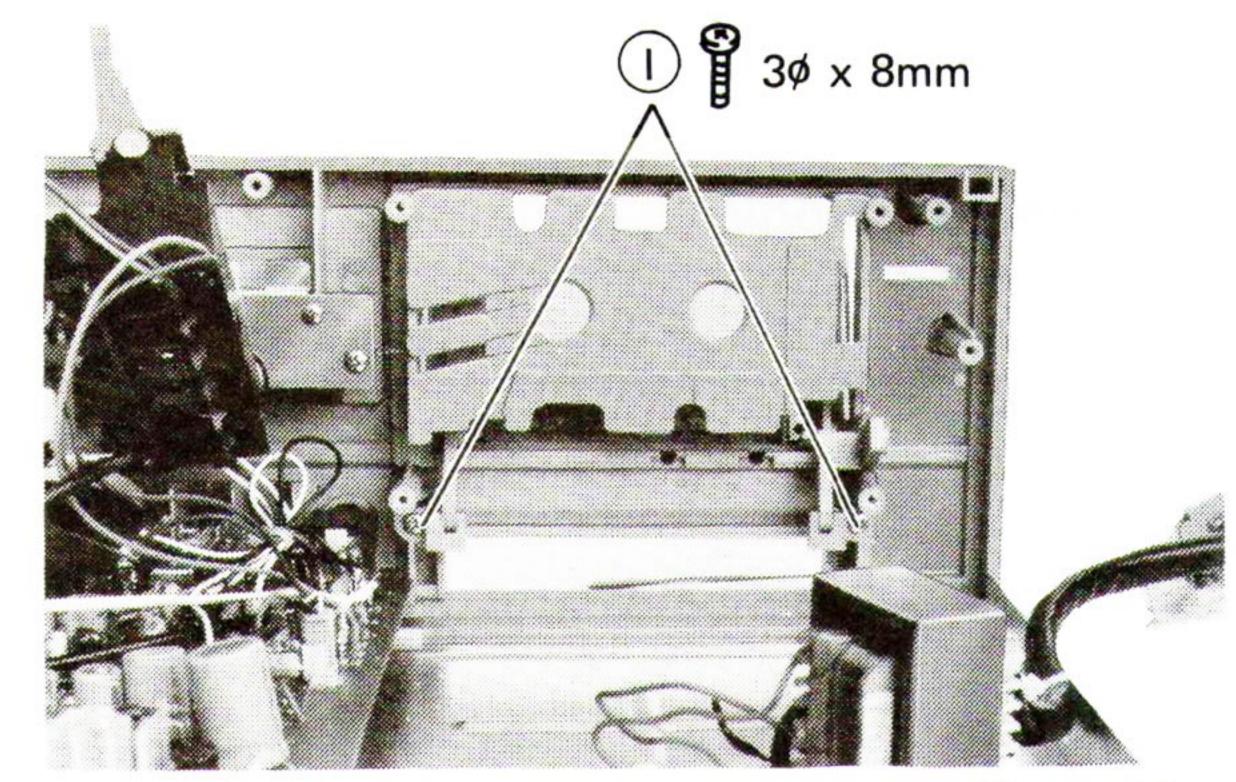


Figure 10.

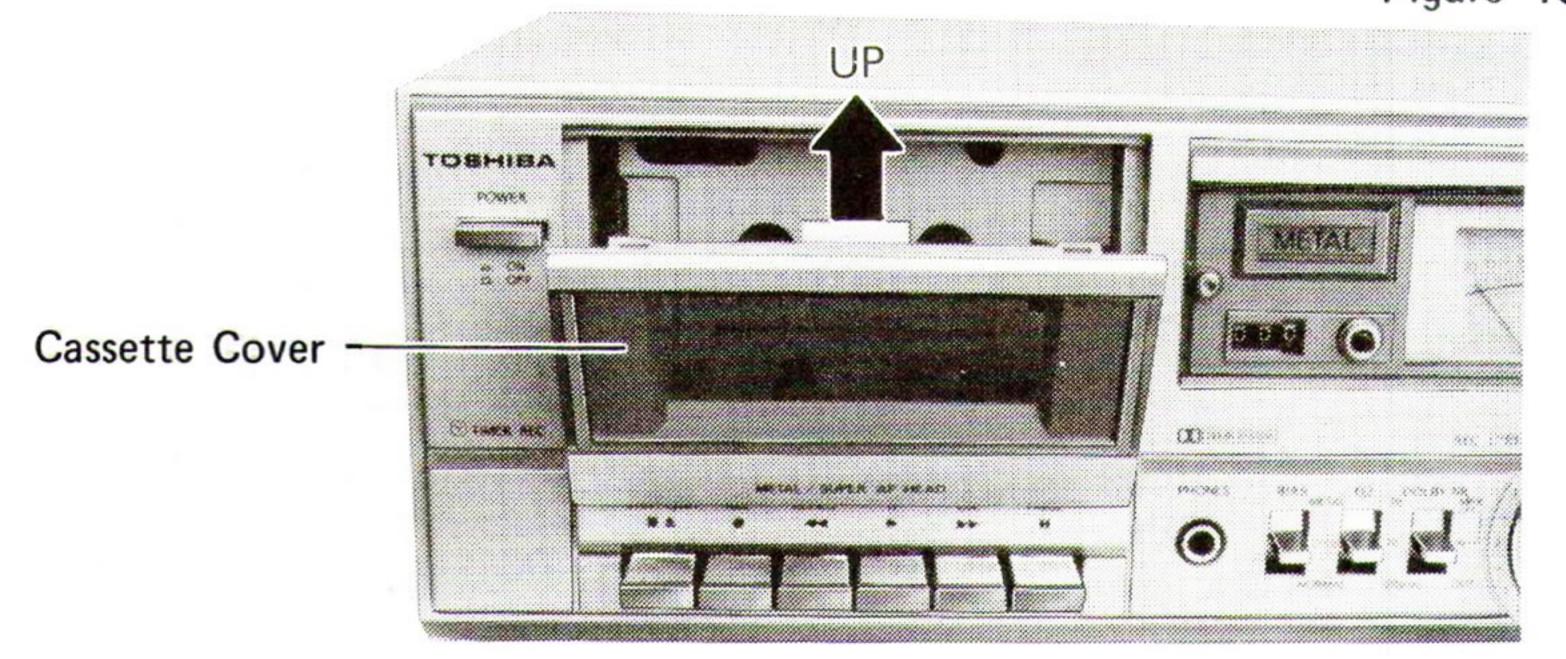


Figure 11.

#### PANEL ASSEMBLY REMOVAL

- 1. Remove the meter, counter and mechanical assembly.
- 2. Remove the 3 Volume knobs (J). (See figure 12.)
- 3. Remove 3 screws (K) (3¢ x 6mm) which secure the panel to the bottom board. (See figure 13.)
- 4. Remove the panel from the body by removing 2 screws

  (3¢ x 8mm, Tapping) which secure the mic jack and volume section. (See figure 14.)

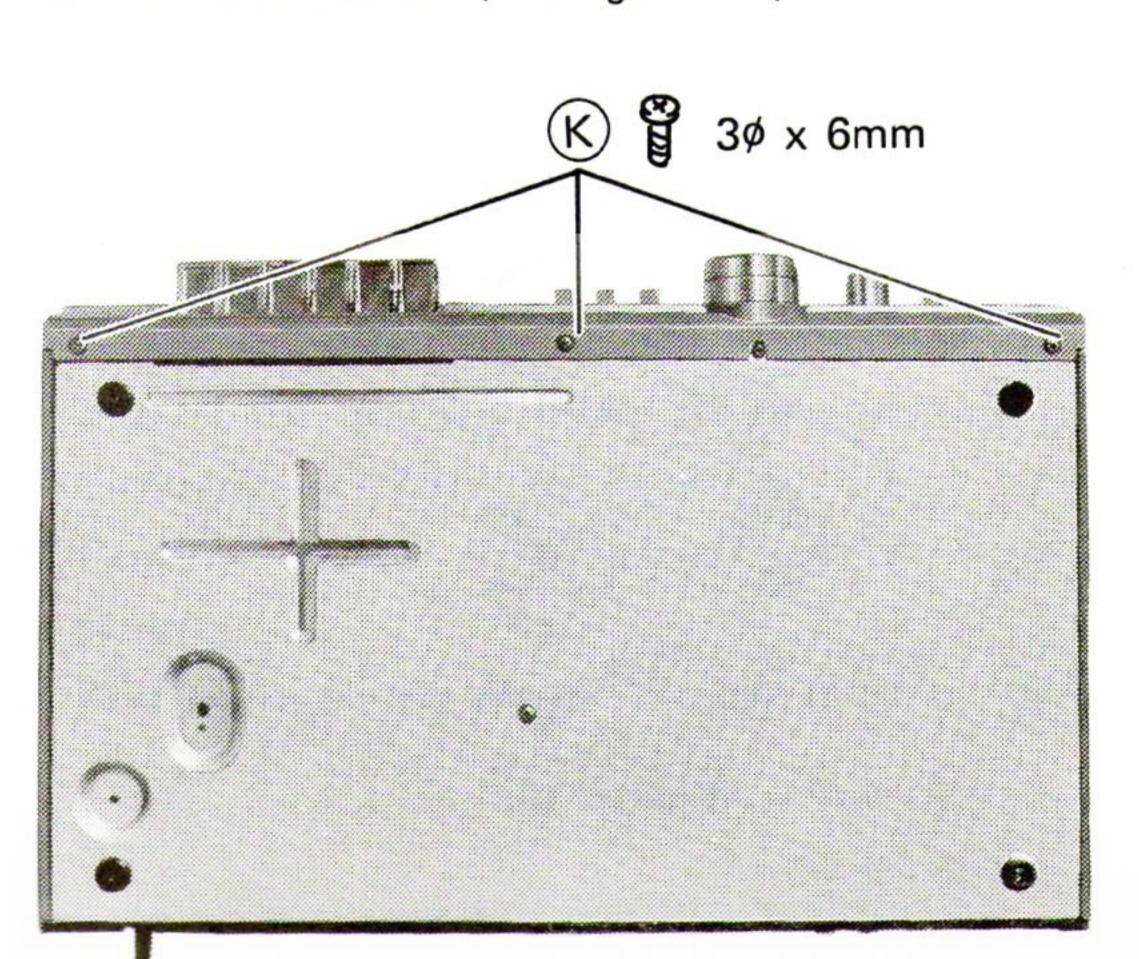
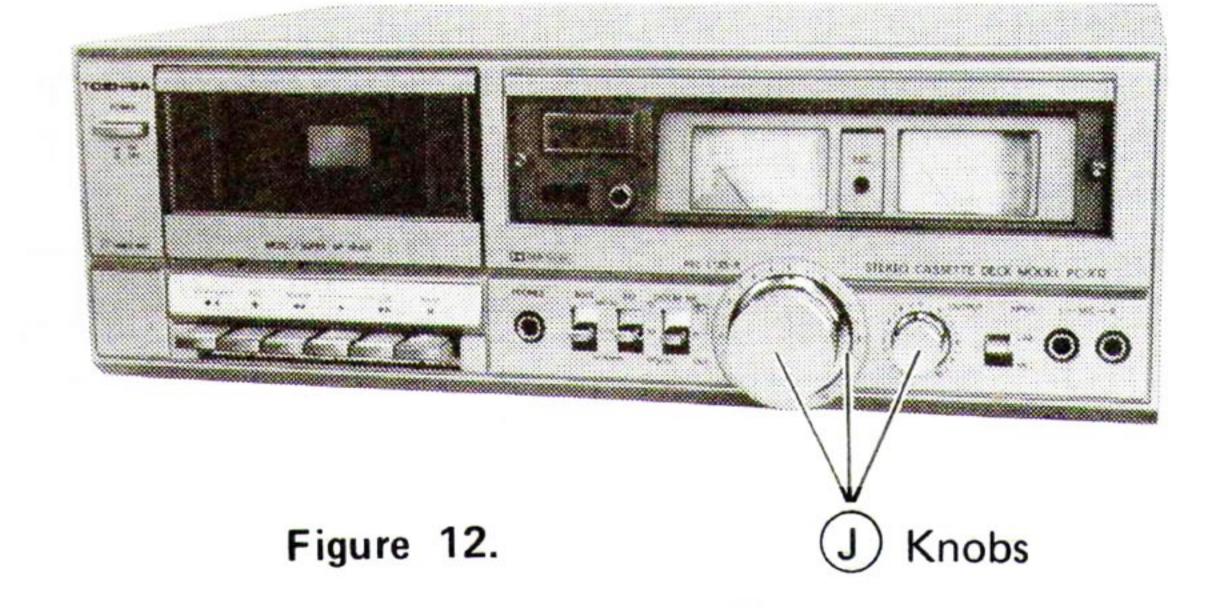


Figure 13.



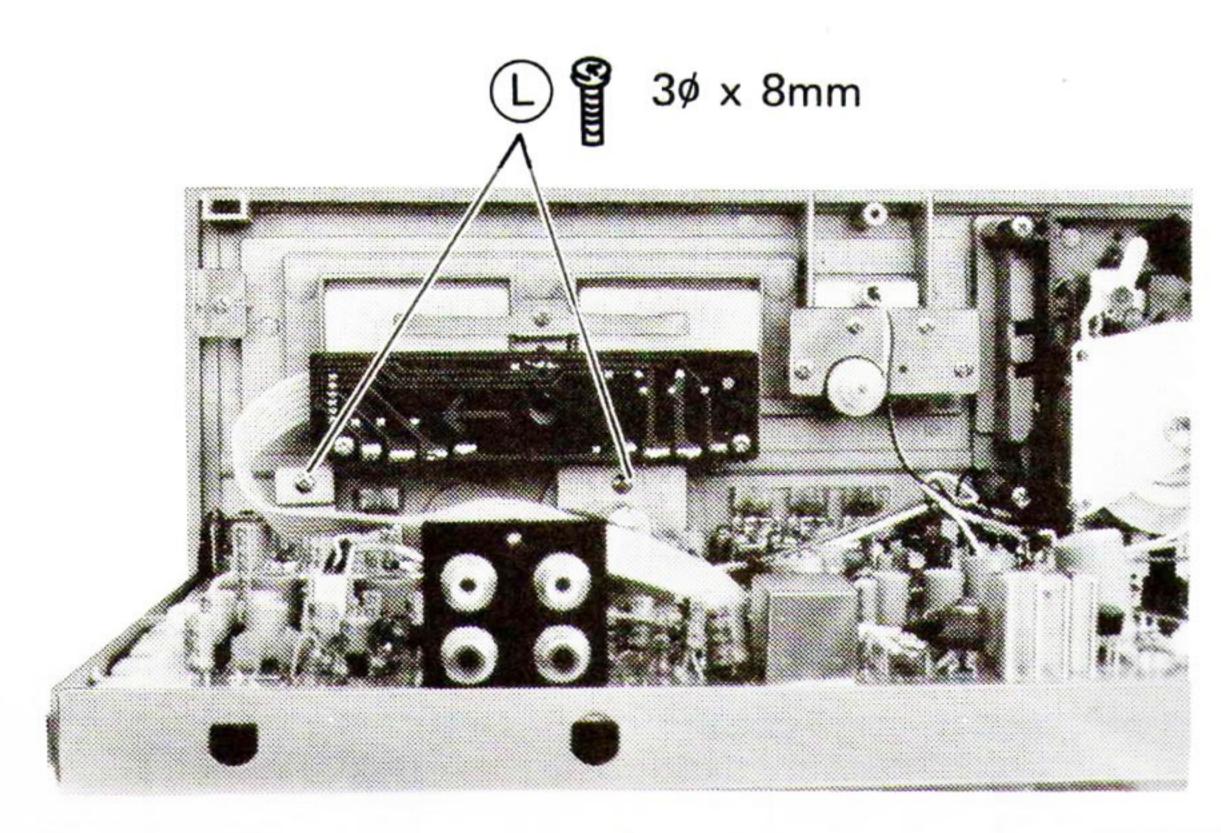
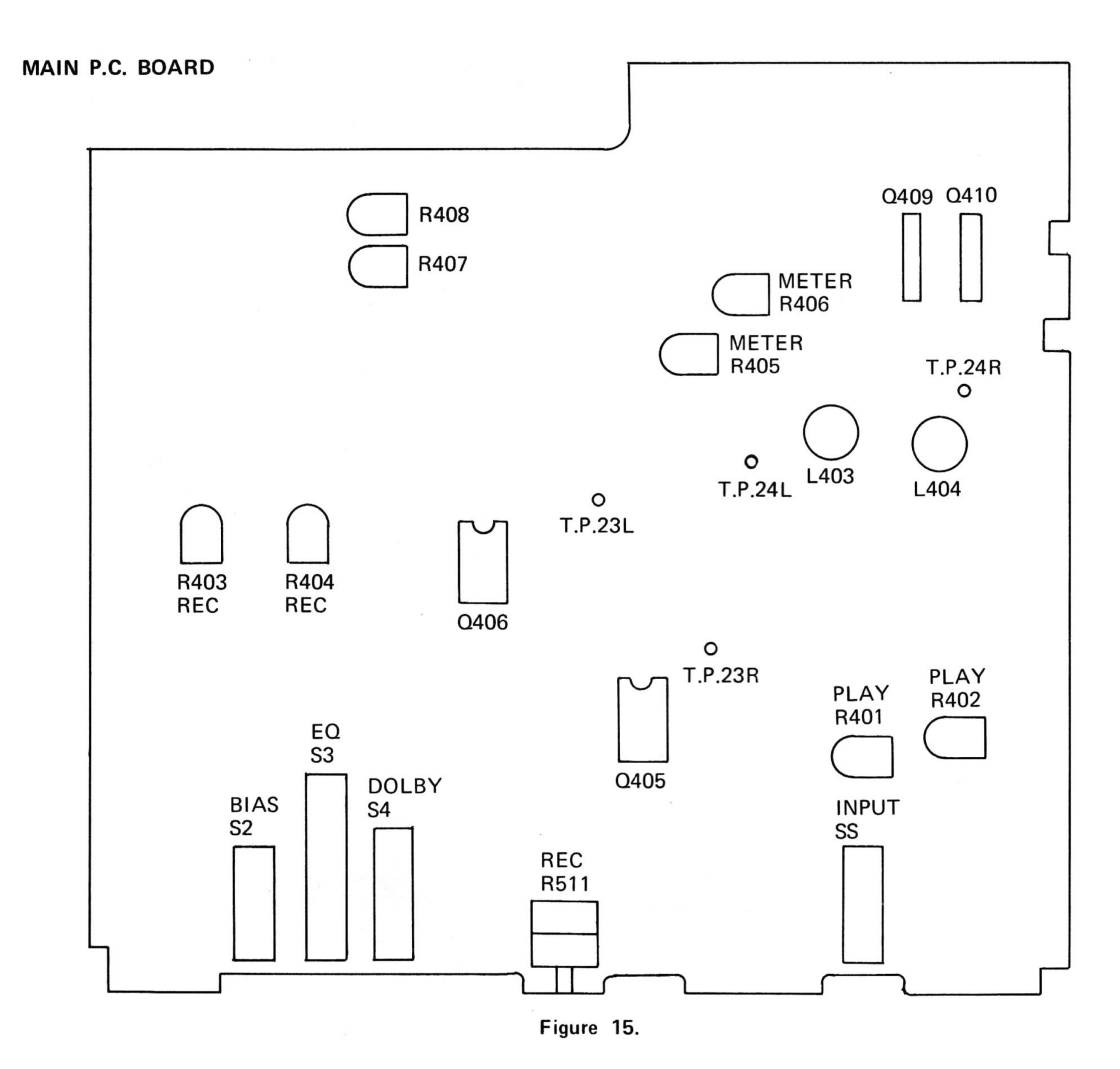


Figure 14.

#### 5. ADJUSTMENTS



#### **TEST EQUIPMENTS**

- 1. VTVM (Vacuum Tube Voltmeter)
- 2. Signal Generator
- 3. Resistance Attenuator
- 4. Screwdriver
- Test Tapes
   MTT-114 (10 kHz)
   MTT-150 (400 Hz)
   AC-511 (CHROME TAPE)

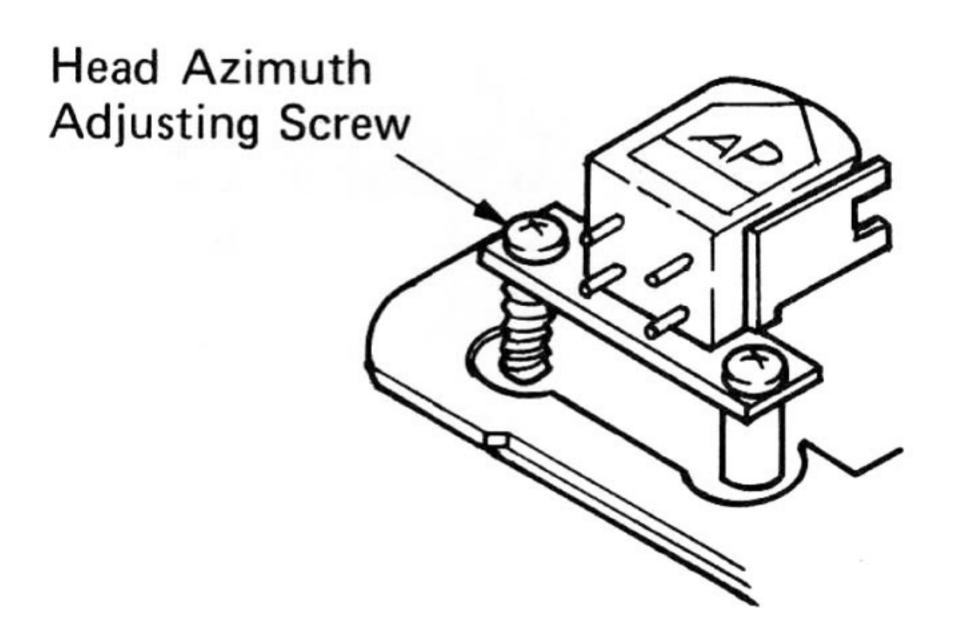


Figure 16.

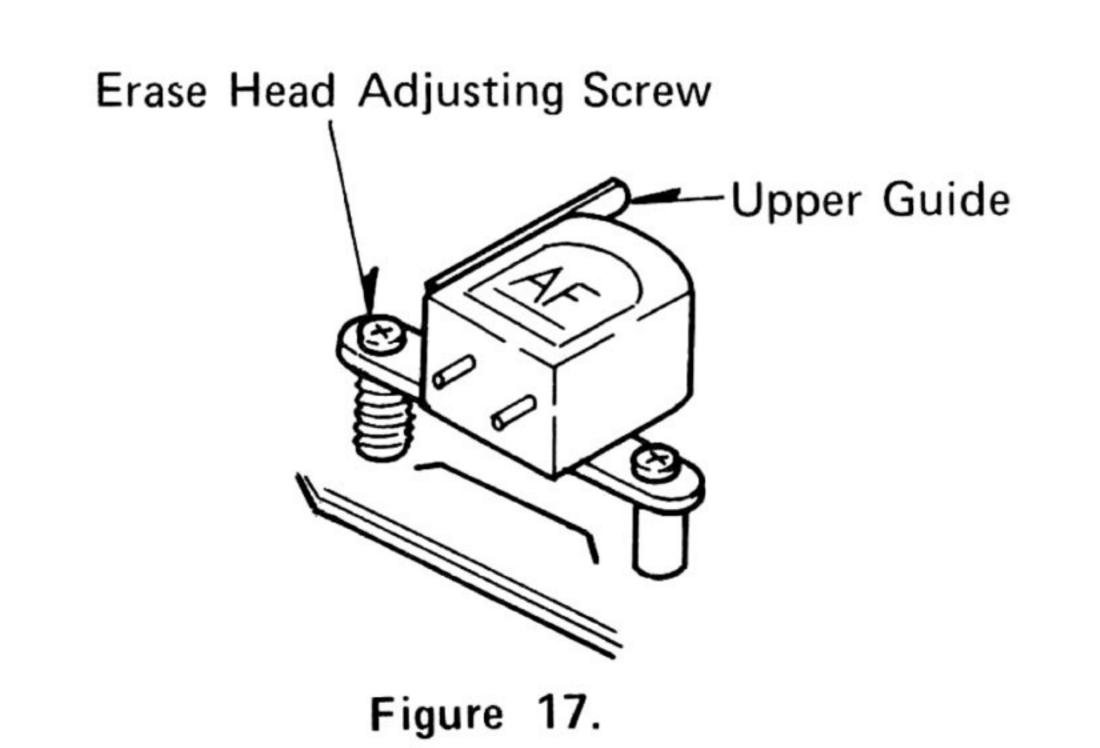
#### ADJUSTMENT PROCEDURE

		DEEEDENICE VALUE		VOLUME		LE\	/ER SWI	ТСН	ADJUSTMENT	TEST POINT	INPUT FRE- QUENCY	REMARKS
NO.	ITEM	REFERENCE VALUE	TUBE	REC	OUT	BIAS	EQ	NR	ADJUSTIVILIVI	- LOTTOTIVI	ATT	
1	Head Azimuth Adjustment	Maximum	MTT -114		MAX	AD (NOR)	AD (NOR)	OUT	Head Azimuth Adjusting Screw	LINE-OUT		Lock screw after adjusting and measuring with phase meter or adjust maximum with MTT-144 tape (10 kHz).
2	Tape Speed Measurement	Frequency 3000 ± 30 Hz	MTT -111		MAX	AD (NOR)	AD (NOR)	OUT	Semi-fixed Parts Inside the Motor	1 11/1 - 1 11 1 1		Complete rewinding (Adjust to 3000 ± 15 Hz only when frequency is out of reference value.).
3	Playback Sensitivity Adjustment	Test Point 1000mV	MTT -150		MAX	AD (NOR)	AD (NOR)	OUT	R401 R402	TP23L TP23R		Playback 400 Hz tape and adjust to 100mV at test point.
4	Playback Output Measurement	600mV ± 3 dB	MTT -150		MAX	AD (NOR)	AD (NOR)	OUT		LINE-OUT		Read the LINE-OUT voltage when adjusting to TP 100mV with 400 Hz tape.
- 5	Record/Playback Frequency Characteristics (normal)	± 2 dB	MTT 215C		MAX	AD (NOR)	AD (NOR)	OUT		LINE-OUT	-	Read the difference between 315 Hz and 10 kHz.
6	Noise Output Level	3.5mV or less	No Load		MAX	AD (NOR)	AD (NOR)	OUT		LINE-OUT		Eliminate temporary peak. Read maximum value of mean deffection.
7	Bias Leak Adjustment	Minimum			MAX	AX CrO <sub>2</sub>	AX CrO <sub>2</sub>	OUT	L403 L404	TP24L TP24R		
8	Line Input Adjustment	Test Point 100mV		Adjustment	MAX	AX CrO <sub>2</sub>	AX CrO <sub>2</sub>	OUT	REC-VRL REC-VRL	TP23L TP23R	400 Hz -17 dB	Adjust REVR so that output at testpoint is 100mV. Never proceed more.
9	Meter Adjustment	Meter + 3 dB		Adjustment	MAX	AX CrO <sub>2</sub>	AX CrO <sub>2</sub>	OUT	R405 R406	Meter	−17 dB	Adjust so that the pointer of the meter is set to +3.
10	Record/Playback Frequency Characteristics Adjustment	0 ± 1 dB	NEW-SA AC-502	Adjustment	MAX	AX CrO <sub>2</sub>	AX CrO <sub>2</sub>	OUT	R407 R408	LINE-OUT	-10 kHz	Adjust bias so that 10 kHz gets within ± 1 dB for 400 Hz.
11	Record/Playback Sensitivity Adjustment	0 ± 1 dB	NEW-SA AC-502	Adjustment	MAX	AX CrO <sub>2</sub>	AX CrO <sub>2</sub>	OUT	R403 R404	LINE-OUT	400 HZ	Output level should be kept within ± 1 dB as compared with input level when playing back or recording at 400 Hz ± 3 dB.

- Measurement Conditions: Input: 0 dB = 1 Vrms LINE OUT: Load Impedance: 47K ohm LINE IN: Impedance: 600 ohm Test Point Impedance: No load

#### **ERASE HEAD HEIGHT ADJUSTMENT**

- 1. Temporally mount the erase head so that it will be even by eye measurement.
- 2. Set in PLAY position with setting a mirror cassette tape, MC-09C.
- 3. Adjust the height adjusting screw so that the upper edge of the tape will touch at the upper tape guide of the erase head. See figure 18.
- 4. Confirm whether the upper edge of the tape is not curled.
- 5. Paint the adjusting screw with lock paint.



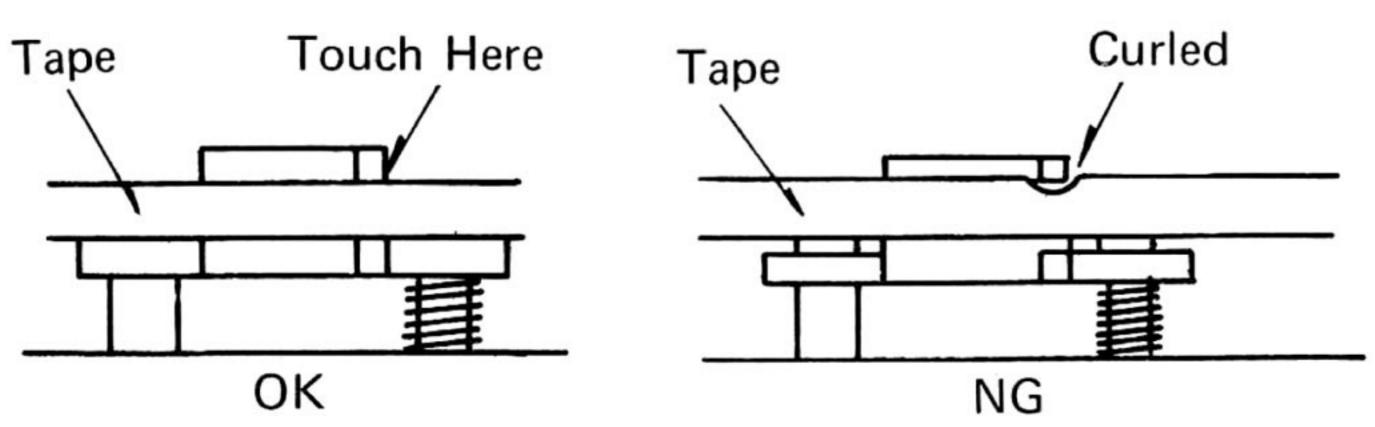


Figure 18.

P.S. When the mirror cassette is not available, please remodel a normal tape, type C-90 as shown below. See figure 19.

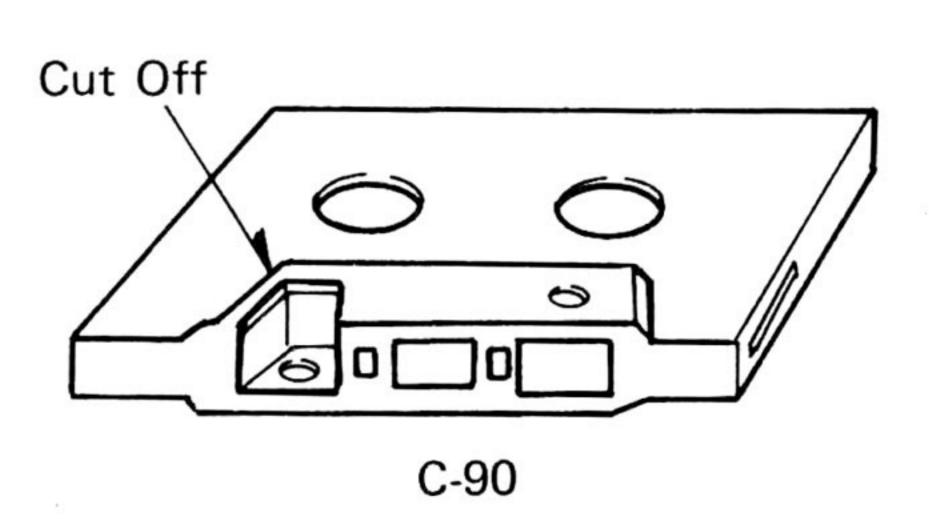


Figure 19.

## 6. P.C. BOARD PARTS LOCATIONS




Figure 20.

## 7. SCHEMATIC DIAGRAM

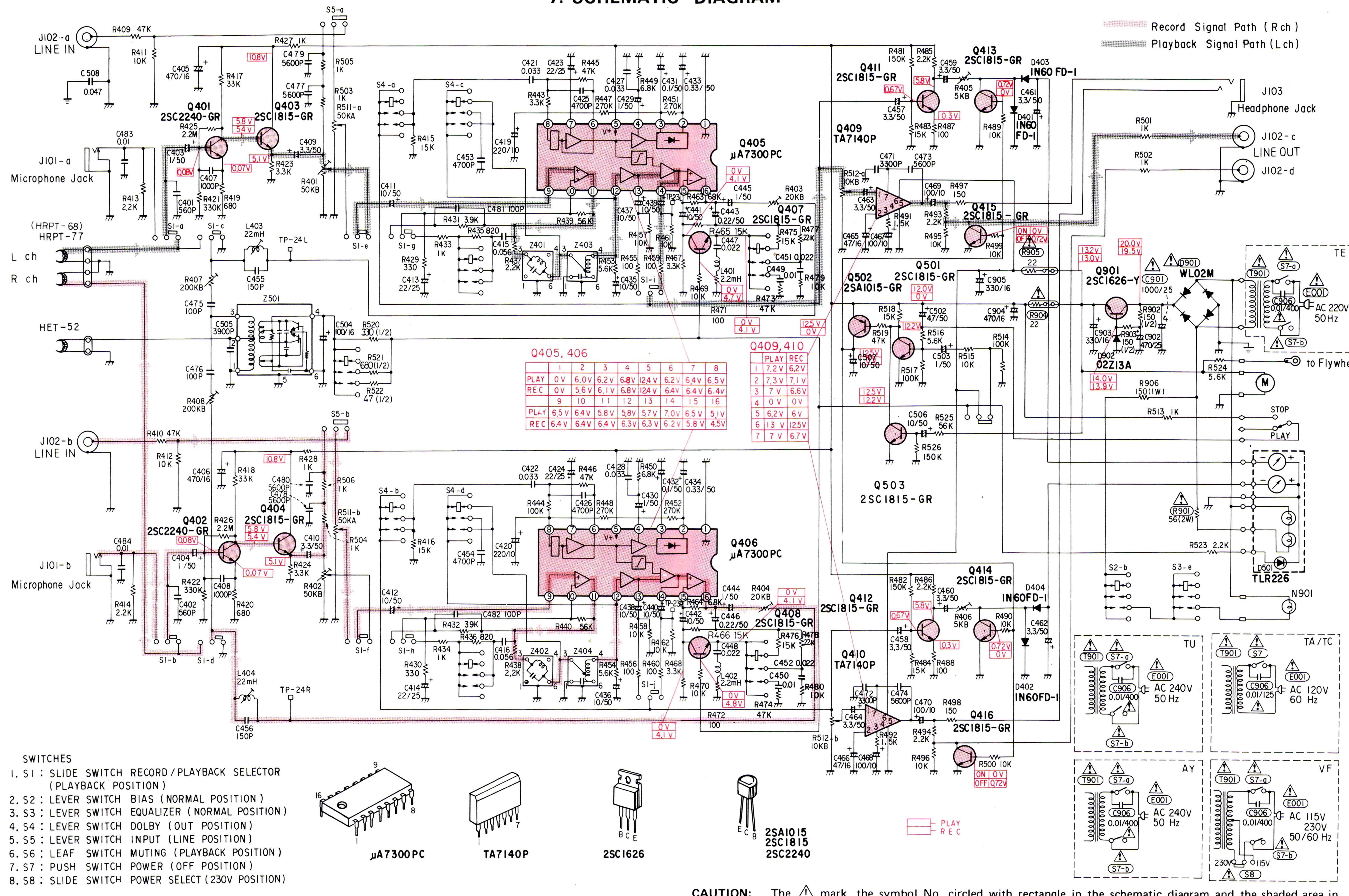
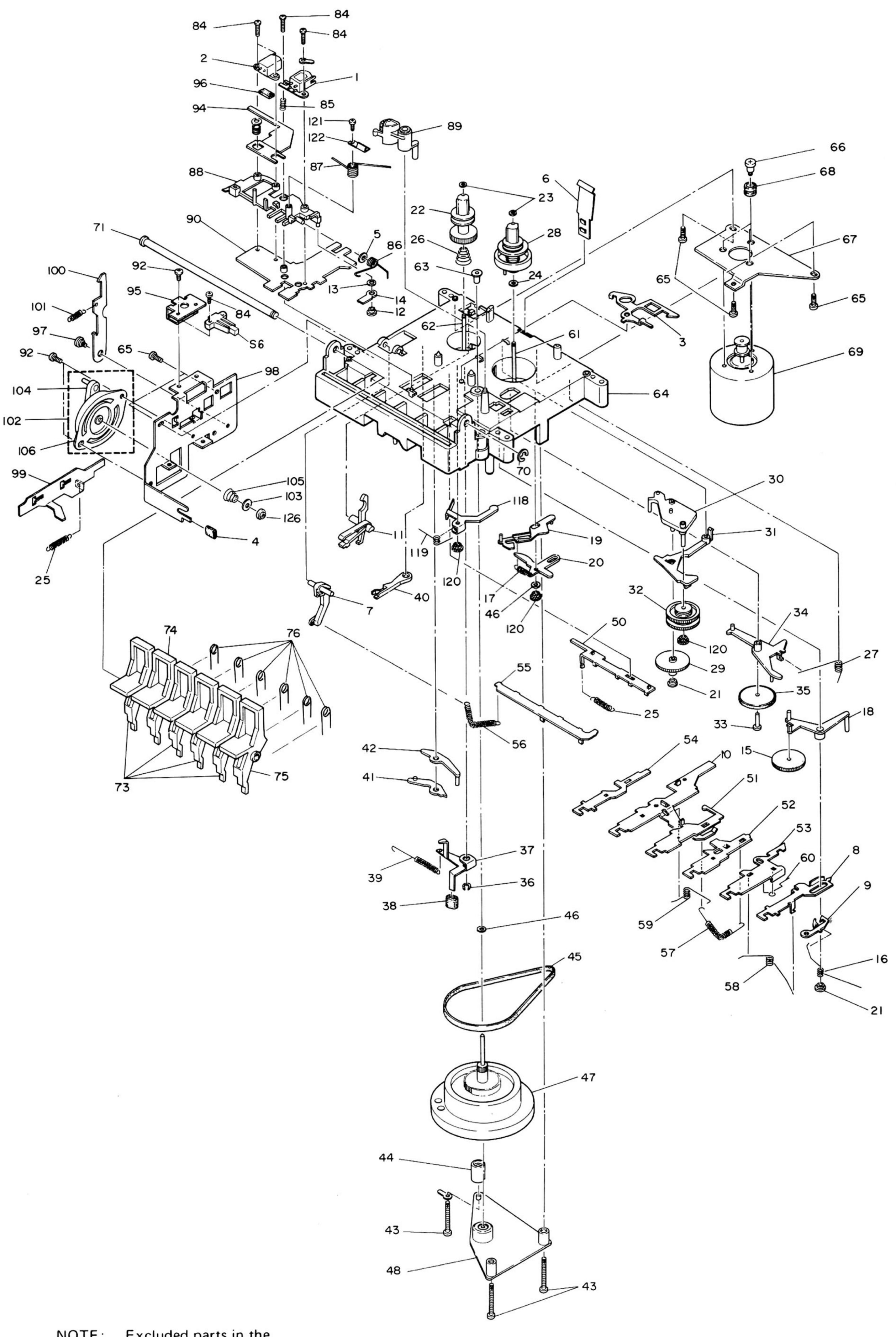


Figure 21.

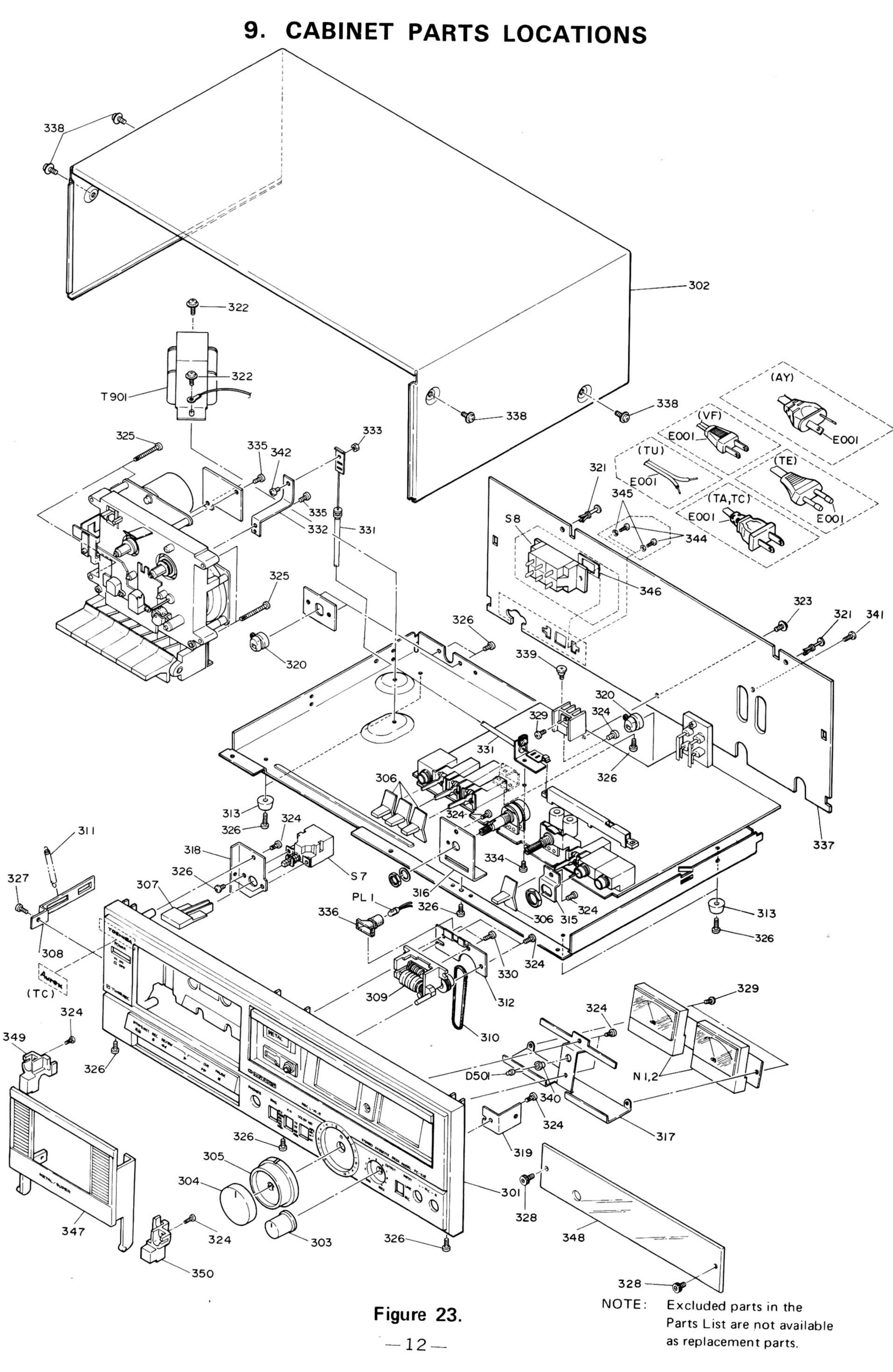
The  $\triangle$  mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

## 8. MECHANICAL PARTS LOCATIONS



NOTE: Excluded parts in the Parts List are not available as replacement parts.

Figure 22.



#### 10. PARTS LIST

#### **CAUTION:**

The  $\triangle$  mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description								
	MECHANICAL PARTS									
1	22217357	Head, Record/Playback (HRPT-77)								
2	22218227	Head, Erase (HET-52)								
4		Arm Cushion								
5		Washer, PO, 3.6¢								
7	25782374	5 5								
8	FIRE THOUSE IN A COMMON MEDICAL IN	Operation Plate, Pause								
9		Lever, Pause Lock								
10	25741546	Operation Plate, Record								
11	25782248	Lever, Record Lock								
13	25764476	Washer, 3¢								
15	25756213	Gear, ASO								
16	25773437	Spring, ASO Lever								
17	25776043	Spring								
18	25782247	ASO Lever								
20	25782333	Lever, Swing								
21	25783195	Bush								
22	25754338	Reel Drum (Left)								
23	25764549	Washer, 1.7ø								
24	25764566	Washer, 2ø								
25	25771617	Spring								
26	25772578	Spring								
27	25773442	Spring, Idler								
28	25712367	Reel Drum Ass'y (Right)								
29	25756179	Gear, Fast, A								
30	25782257	Lever, Rewind								
31	25782252	Lever, FF								
32	25719491	Gear Ass'y, Fast, B								
35	25713505	Idler Ass'y, Rewind								
40	25782275	Lever, Record Stop								
43	22707546	Screw (BID), 2.6¢ x 20mm,								
		Tapping								
45	25755441									
46		Washer, 2.5¢								
47	CONTRACTOR AND	Flywheel Ass'y								
51	1	Operation Plate, Rewind								
52		Operation Plate, Play-C								
53	I	Operation Plate, Fast-forward								
54	l .	Operation Plate, Stop								
56	The Control of the State of the	Spring, Lock Slider								
57		Spring, Operation Plate C								
58		Spring, Operation Plate A								
59	ESTABLISHED AND APPOINT AN APPOINT LOSS	Spring, Operation Plate B								
60		Spring, Click								
63	25725340									
65	22/0/301	Screw (BID), 2.6¢ x 8mm,								
	39	Tapping								

Symbol No.	Part No.	Description
66	22707429	Screw, Special, 2.6¢ x 1.8mm
68	25761238	Cushion, Motor
69	25791152	Motor Ass'y
70	22703280	E Ring, 4ø
72	25761403	Cushion, Button
73	25816601	Lever, Push, STOP/EJECT,
		REW, PLAY, FF (Silver)
	25816615	Lever, Push, STOP/EJECT,
		REW, PLAY, FF (Black)
74		Lever, Push, REC. (Silver)
		Lever, Push, REC. (Black)
75	3	Lever, Push, PAUSE (Silver)
		Lever, Push, PAUSE (Black)
76		Spring, Push Lever
82	22707265	Screw (BID), 2ø x 4mm,
		Tapping
84		Screw (DTBID), 2ø x 10mm
85		Spring, Azimuth
86	NO. 100 P. 1000 P.	Spring, Head Slider
87	- Charles I in the second of the second	Spring, Pinch Lever
88		Head Mount Plate
89	100	Pinch Lever Ass'y
92	THE STATE OF THE S	Screw (DTBID), 2.6¢ x 6mm
97	22701472	Screw (FLT), 2.6¢ x 1.3mm
101	25776175	Spring
102		Damper Ass'y
120	25783226	
121	22707461	Screw (BID), 2.60 x 6mm,
		Tapping
126	25783211	Bush
	CABIN	IET PARTS
301	25817810	Panel Ass'y (TE, TU, AY, TA,
		VF-S)
	25817835	Panel Ass'y (TC-S)
	25817816	Panel Ass'y (TA-B)
	25817836	Panel Ass'y (TC-B)
302	25838259	Top Cover (Silver)
	25838431	Top Cover (Black)
303	22835181	Knob, Outlet (Silver)
	25837447	
304	22835154	Knob, Record (Left)(Silver)
	25837445	Knob, Record (Left)(Black)
305	22835155	, , , , , , , , , , , , , , , , , , , ,
	25837446	
306	25837281	
		Knob, Select (Black)
307	25837362	Knob, Push, Power (Silver)

Symbol No.	Part No.	Description		Symbol No.	Part No.	Description
•	22835073	Knob, Push, Power (Black)		Q407, 408		Transistor, 2SC1815-GR
308	25758384	Lever, Door		Q409, 410		IC, TA7140P
309	25873217	Counter		Q411, 412,		Transistor, 2SC1815-GR
310	25755377	Belt, Counter		413, 414,		
311	25776185	Spring		415, 416		
313	22874027	Leg		Q501		Transistor, 2SC1815-GR
320	25845528	Bush, Power Cord (TE, TU,		Q502		Transistor, 2SA1015-Y
		AY)		Q901		Transistor, 2SC1626-Y
	25845120	Bush, Power Cord (TA, TC,		D401, 402,	22115603	Diode, 1N60FD1
		VF)		403, 404		
321		Rivet, Plastic, 3ø x 6.5mm		D501		Diode, TLR226
322	1000 CO	Screw (FLDT), 3ø x 6mm	$\triangle$	D901	22115485	Diode, WL02
323		Screw (FLDT), 3ø x 8mm		D902		Diode, 02Z13A
324	22701326	Screw (BID), 3ø x 8mm,				
325	22701247	Tapping Screw (BID), 3ø x 25mm,			ELECTR	ICAL PARTS
		Tapping	$\wedge$	T901	22223797	Transformer, Power (TE)
326	22707445	Screw (DTBID), 3¢ x 6mm	$\triangle$			Transformer, Power (TU, AY)
327		Screw (BID), 2.6¢ x 8mm	$\Lambda$			Transformer, Power (TA, TC)
328		Screw, 3¢ x 8mm, Special	\(\frac{\zert_{!\}}{\pi}\)			Transformer, Power (VF)
329		Screw (BID), 3ø x 5mm	<u> </u>	L401, 402		Coil, Trap (2.2mH)
331		Remote Wire Ass'y		L403, 404		Coil, Trap (22mH)
333	25720130	as contractions and the contract can be asset to		S1	Annual Control of the	Switch, Slide, Record/Playback
334		Screw (BID), 2.6¢ x 6mm,		S2		Switch, Lever, Bias
		Tapping		S3	And the second second second second	Switch, Lever, Equalizer
335	22707350	Screw (DTBID), 2.6¢ x 5mm		S4		Switch, Lever, Dolby
336	1,000,000,000,000,000,000,000,000,000	Holder, Lamp		S5		Switch, Lever, Input
337		Plate, Jack (TE)		S6	A. A	Switch, Leaf, Muting
		Plate, Jack (TU, AY)	$\wedge$	S7		Switch, Push, Power (TE, TU,
	25838401					AY, VF)
		Plate, Jack (TA, TC-S)	$\triangle$		22195226	Switch, Push, Power (TA, TC)
		Plate, Jack (TA, TC-B)		S8		Switch, Slide, Power Select
338		Screw (FLDT), 3ø x 6mm	Z:\ <u>\</u>			(VF)
339		Screw, 30 x 4mm, Special		Z401, 402	22153116	Filter, Dolby, 85
341	the state of the second tests	Screw (TPAN), 3ø x 10mm		Z403, 404		Filter, Dolby, 19
342		Screw (BID), 2.6¢ x 6mm,		Z501	22132530	Bias OSC Unit
		Tapping		J101		Jack, Microphone
343	22707066	Screw (BID), 3\psi x 6mm		J102		Jack, US PIN
344	CONTRACTOR OF THE PROPERTY STATE	Screw (BID), 3ø x 10mm (VF)		J103	Property and the party of the p	Jack, Headphone
345	120 0 0 0 0 0 0	Washer, 3ø (VF)		N1, 2	= - 1	Meter, Level
347		Cassette Cover Ass'y (Silver)			22113506	Lamp, Meter
	25817817	Cassette Cover Ass'y (Black)		PL1	22113313	Lamp, 14V/50mA
348	25838261	Cover, Meter	$\triangle$	E001	22176286	Cord, Power (TE)
349	25838336	Decoration, Panel (L)(Silver)	$\overline{\mathbb{A}}$		22176536	Cord, Power (TU)
		Decoration, Panel (L)(Black)	$\overline{\triangle}$		22176588	Cord, Power (AY)
350	25838337	Decoration, Panel (R)(Silver)	$\triangle$		22176572	Cord, Power (TA, TC)
	25838436	Decoration, Panel (R)(Black)	$\triangle$		22176125	Cord, Power (VF)
TRA	NSISTORS	IC'S AND DIODES			CAP	ACITORS
				J = ±5%, K =		20%, P = -0 +100%, Z = -20
Q401, 402		Transistor, 2SC2240-GR Transistor, 2SC2240-GR		+80%		
Q403, 404	00444004	N N N N N N N N N N N N N N N N N N N		C401, 402	22240561	Ceramic, 560pF, 50V, K
Q405, 406	22114821		_		77.14900	THE COLUMN TO THE COLUMN IN

Symbol No.	Part No.	Description
C403, 404	22488109	Electrolytic, 1mfd, 50V, M
C405, 406	22485471	Electrolytic, 470mfd, 16V, M
C407, 408	22349102	Ceramic, 1000pF, 50V, K
C409, 410	22488339	
C411, 412		Electrolytic, 10mfd, 50V, M
C413, 414	22486220	
C415, 416	22371563	
C419, 420	ATTO THE RESERVE OF THE PROPERTY OF THE PROPER	Electrolytic, 220mfd, 10V, M
C421, 422		Mylar, 0.033mfd, 50V, J
C423, 424	Committee of the Commit	Electrolytic, 22mfd, 25V, M
C425, 424		Mylar, 4700pF, 50V, J
C425, 426		Mylar, 0.033mfd, 50V, J
*		
C429, 430	Principles Charles and Control	Electrolytic, 1mfd, 50V, M
C431, 432		Electrolytic, 0.1mfd, 50V, K
C433, 434		Electrolytic, 0.33mfd, 50V, K
C435, 436,	22488100	Electrolytic, 10mfd, 50V, M
437, 438,		
439, 440,		
441, 442		
C443, 444	22480005	
C445, 446	22488109	Electrolytic, 1mfd, 50V, M
C447, 448	22371223	Mylar, 0.022mfd, 50V, J
C449, 450	22372103	Mylar, 0.01mfd, 50V, J
C451, 452	22372223	Mylar, 0.022mfd, 50V, J
C453, 454	22371472	Mylar, 4700pF, 50V, J
C455, 456	22349151	Ceramic, 150pF, 50V, K
C457, 458,	22488339	Electrolytic, 3.3mfd, 50V, M
459, 460,		
461, 462,		
463, 464		
C465, 466	22483470	Electrolytic, 47mfd, 16V, M
C467, 468,	22483101	Electrolytic, 100mfd, 10V, M
469, 470	22100101	Licotion, toomia, rov, m
C471, 472	22349332	Ceramic, 3300pF, 50V, K
C471, 472		Ceramic, 5600pF, 50V, K
C475, 474		Ceramic, 3000pr, 30 v, K
C475, 476 C477, 478,		Ceramic, 160pr, 50V, K
	22349302	Ceramic, Souper, Sov, ix
479, 480	22240101	Coromio 100nE EOV K
C481, 482,	22349101	Ceramic, 100pF, 50V, K
483, 484	22400470	Flootrolytic 4 7 fol FOV NA
C502	22488479	Electrolytic, 4.7mfd, 50V, M
C503	22488109	Electrolytic, 1mfd, 50V, M
C504	22485101	Electrolytic, 100mfd, 16V, M
C505	22380101	Polystyrene, 3900pF, 200V, K
C506, 507	22488100	Electrolytic, 10mfd, 50V, M
C508	22342473	Ceramic, 0.047mfd, 50V, Z
C901	22486102	
C902		Electrolytic, 470mfd, 25V, M
C903	22485331	Electrolytic, 330mfd, 16V, M
C904	22485471	Electrolytic, 470mfd, 50V, M
C905	22485331	Electrolytic, 330mfd, 50V, M
C906	22340147	Ceramic, 0.01mfd, 400V, P
		(TE, TU, AY, VF)
		•

Symbol No.	Part No.	Description
	22340140	Ceramic, 0.01mfd, 125V, P (TA, TC)
All resistors a		SISTORS m ¼W, ±5%, unless otherwise

All resistors are carbon film ¼W, ±5%, unless otherwise							
	000, M = 100						
R401, 402	22658494						
R403, 404	22658493						
R405, 406	22658531	,					
R407, 408	22658496	200K ohm, B, Semi-fixed					
R409, 410	22555473						
R411, 412	22555103						
R413, 414	22555222	2.2K ohm					
R415, 416	22555153						
R417, 418	22555333	33K ohm					
R419, 420	22555681	680 ohm					
R421, 422	22555334	330K ohm					
R423, 424	22555332	3.3K ohm					
R425, 426	22555225	2.2M ohm					
R427, 428	22545102	1K ohm					
R429, 430	22545331	330 ohm					
R431, 432	22555392	3.9K ohm					
R433, 434	22555102	1K ohm					
R435, 436	22555821	820 ohm					
R437, 438	22555222	2.2K ohm					
R439, 440	22555563	56K ohm					
R443, 444	22555332	3.3K ohm					
R445, 446	22555473	47K ohm					
R447, 448	22555274	270K ohm					
R449, 450	22555682	6.8K ohm					
R451, 452	22555274	270K ohm					
R453, 454	22555562	5.6K ohm					
R455, 456	22555101	100 ohm					
R457, 458	22555103	10K ohm					
R459, 460	22555101	100 ohm					
R461, 462	22555103	10K ohm					
R463, 464	22555683	68K ohm					
R465, 466	22555153	15K ohm					
R467, 468	22555332						
R469, 470	22545103						
R471, 472	22555101	100 ohm					
R473, 474	22555473						
R475, 476	22545153						
R477, 478	22545223						
R479, 480	22555103						
R481, 482	22555103						
R483, 484	22555154						
R485, 486	22555153						
R485, 488	22555222						
R489	22545103						
R490 R491, 492	22555103	10K ohm 1.5K ohm					

Symbol No.	Part No.	Description
R493	22545222	2.2K ohm
R494	22555222	2.2K ohm
R495, 496	22555103	10K ohm
R497, 498	22545151	150 ohm
R499, 500	22545103	10K ohm
R501, 502,	22555102	1K ohm
503, 504,		
505, 506		
R511	22655426	50K ohm, B, Variable
R512	22625427	10K ohm, B, Variable
R513	22545102	1K ohm
R514	22555104	100K ohm
R515	22555103	10K ohm
R516	22555562	5.6K ohm
R517	22555104	100K ohm
R518	22555153	
R519	22555473	47K ohm
R520	22547331	330 ohm, ½W
R521		680 ohm, ½W
R522		47 ohm, ½W
R523	22545222	
R524	22555562	
R525	22555563	Committee Commit
R526		150K ohm
R901		56 ohm, 2W, Metal Oxide Film
R902, 903		150 ohm, ½W
R904, 905		22 ohm, Fusible
R906	225/0264	150 ohm, 1W, Metal Oxide
		Film
	ACCE	ESSORIES
	22902684	Owner's Manual (TE)
		Owner's Manual (TU, AY)
		Owner's Manual (TA)
		Owner's Manual (TC)
	A CONTROL WATER CONTROL SAME THE PARTY	Owner's Manual (VF)
		Junction Cord
		Cleaner, Head

## TOSHIBA CORPORATION

2-1, GINZA 5-CHOME, CHUO-KU, TOKYO 104, JAPAN