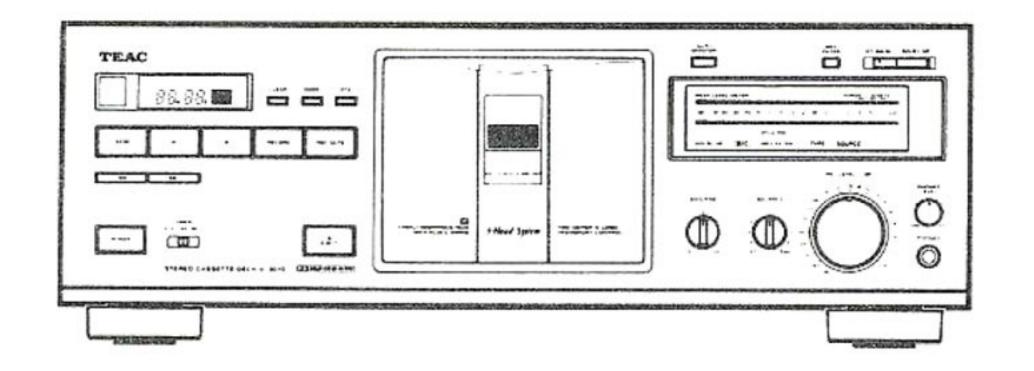
# TEAC



# SERVICE MANUAL



# **Stereo Cassette Deck**

注意

NOTES

- PC boards shown are viewed from parts side.
- Parts marked with \* require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [] mark can be used only with the version designated.
  [J]: JAPAN [US]: U. S. A. [C]: CANADA [GE]: GENERAL EXPORT
  [E]: EUROPE [UK]: U. K. [A]: AUSTRALIA

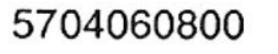
●プリント基板図は部品面が示されています。

- \*印の部品は納期が若干かかります。あらかじめご了承ください。
- ●分解図に部番のない部品及び品番のない部品は供給しません。
   ●標準の抵抗、コンデンサーは省略してあります。回路図を参照してください。

●▲印は安全重要部品です。交換する時は必ずティアック指定の 部品を使用してください。

●仕向先

[J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT [E]:EUROPE [UK]:U.K. [A]:AUSTRALIA



# 1 SPECIFICATIONS 仕様

Track System : 4-Track, 2-Channel Stereo Heads : 1 Erase, 1 Record and 1 Playback (Combination) Type of Tape : Cassette tape C-60 and C-90 (Philips type) Tape Speed : 4.8 cm/sec (1-7/8 ips) Motors : 2 ; 1 DC servo motor (for capstan drive) 1 DC motor (for reel drive) Wow and Flutter : 0.045 % (W. RMS) Frequency response (Overall, - 20 dB) : 15-21,000 Hz ± 3 dB, Metal 15-20,000 Hz ± 3 dB, CrO<sub>2</sub> 15-18,000 Hz ± 3 dB, Normal Signal - to - Noise Ratio (Overall) : 60 dB (NR OFF, 3 % THD Level, Weighted) 70 dB (Dolby B NR In, over 5 kHz)

4トラック2チャンネル ステレオ トラック形式 録音×1・再生×1 コンビネーションヘッド ヘッド構成 消去ヘッド×1 使用テープ C-60, C-90 タイプ カセットテープ 4.8cm/sec テープ速度 キャプスタン:DCサーボモーター×1 モーター リール:DCモーター×1 ワウ·フラッター 0.045%(W.RMS) ± 0.08 % (W. Peak) \* 周波数特性(総合) 15~21,000Hz ± 3dB\*: メタル 15~20,000Hz ± 3dB\*: クローム 15~18,000Hz ± 3dB\* : ノーマル 58dB(NR OFF, 規定録音レベル)\* SN 比(総合) 70dB(ドルビーB NR ON, CCIR/ARM) 80dB(ドルビーC NR ON, CCIR/ARM) 早巻時間

	80 dB (Dolby C NR In, over 1 kHz)	早巻時間
Fast Wind	Ing Time :	入力
	Approximately 85 seconds for C-60	
Inputs :	Line:60 mV,50 k ohms	出力
Outputs :	Line: 0.44 V for load impedance of 50 k ohms	
	or more	
	Headphones: 2 mW/8 ohms load	電源
Power Rec	quirements :	消費電力
	100/120/230/240 V AC, 50-60 Hz,	外形寸法
	(General export models)	重量
	120 V AC, 60 Hz, (U.S.A./Canada models)	付属品
	230 V AC, 50 Hz, (Europe model)	
	240 V AC, 50 Hz, (U.K./Australia models)	
Power Co	nsumption: 18 W	
Dimensio	ns ( $W \times H \times D$ ) :	
	435 × 149 × 355 mm	●仕様およ
	$(17 - 1/8'' \times 5 - 7/8'' \times 14'')$	●*印は、
Weight :	7 kg (15.5 lbs.)	た測定法
Standard	Accessories :	
	Wireless Remote Control Unit RC-393,	
	Batteries (SUM-3, "AA", "R6" type) $\times 2$ .	

約90秒(C-60テープ)
ライン:97mV
(入力インピーダンス50k Ω)
ライン:0.69V
(負荷インピーダンス50kΩ以上)
ヘッドホン:2mW/8Ω
100V AC, 50-60Hz
18W
$435 \times 149 \times 355$ mm (W × H × D)
7kg
リモコンユニット RC-393×1
入出力コード×2,乾電池(単3)×2

●仕様および外観は、改善のため予告なく変更することがあります。
 ●\*印は、日本電子機械工業会(EIAJ CP-2311)規格に定められた測定法によるものです。

Input-output connection cords × 2

- Specifications were determined using metal tape except as noted.
- Improvements may result in specification or feature changing without notice.

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double - D symbol D and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

2

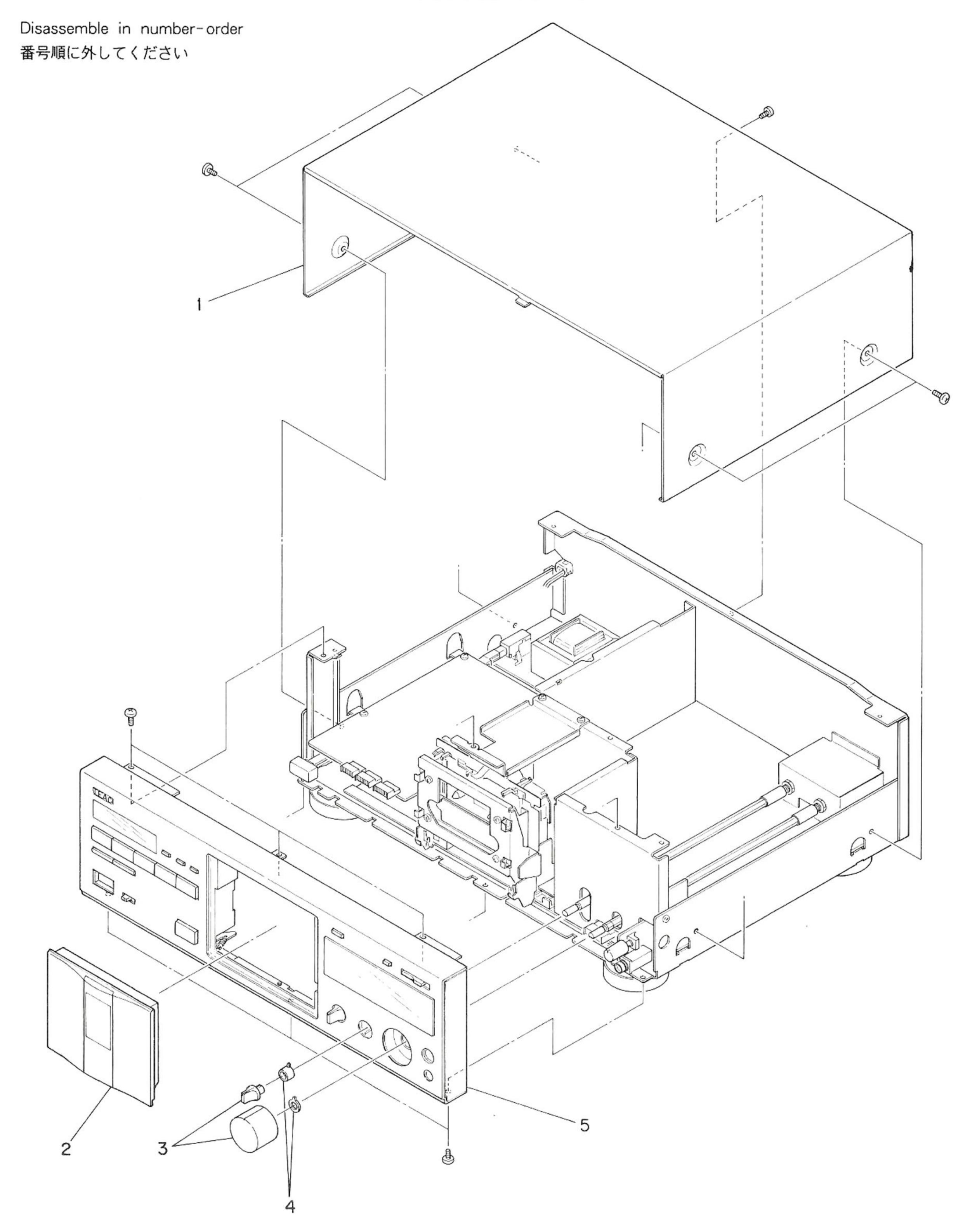
ドルビーノイズリダクション及びHX プロヘッドルームエクス テンションはドルビーラボラトリーズライセンシングコーポ レーションからの実施権に基づき製造されています.HX プロは バングアンドオルフセンの考案です.

ドルビー, DOLBY, ダブルD記号DD 及びHX プロはドルビーラ ボラトリーズライセンシングコーポレーションの登録商標です.



# 2 CASE AND FRONT PANEL REMOVAL

外装部品の外し方



.



## **3 ADJUSTMENT AND CHECKS** 調整と確認

### **3-1 MECHANICAL ADJUSTMENT**

#### 3-1-1 Tape speed

- 1. Connect a frequency counter to the deck as shown in Fig. 3-1.
- 2. Load a TEAC MTT-111N test tape and play the beginning of the test tape.
- 3. Adjust the variable resistor to get the adjustment value of 3,000Hz to 3,010Hz.
- 4. In play mode, check that the following figures are obtained at the beginning and at the end of the tape. Speed deviation : 3,000Hz ± 75Hz Speed drifting : within 75Hz

3-1-1 テープスピード

**3-1**機構部の調整

- 1. Fig. 3-1のように周波数カウンターを接続する。
- 2. テストテープMTT-111N(3kHz)の巻始めを再生する。
- 3. 周波数値が3,000~3,010HzとなるようにFig. 3-2に示すVR を調整する。
- 4. 巻始めから巻終りまで再生し、速度偏差および変動幅を確認する。 速度偏差:3,000Hz ± 75Hz
  - 変 動 幅:75Hz以内

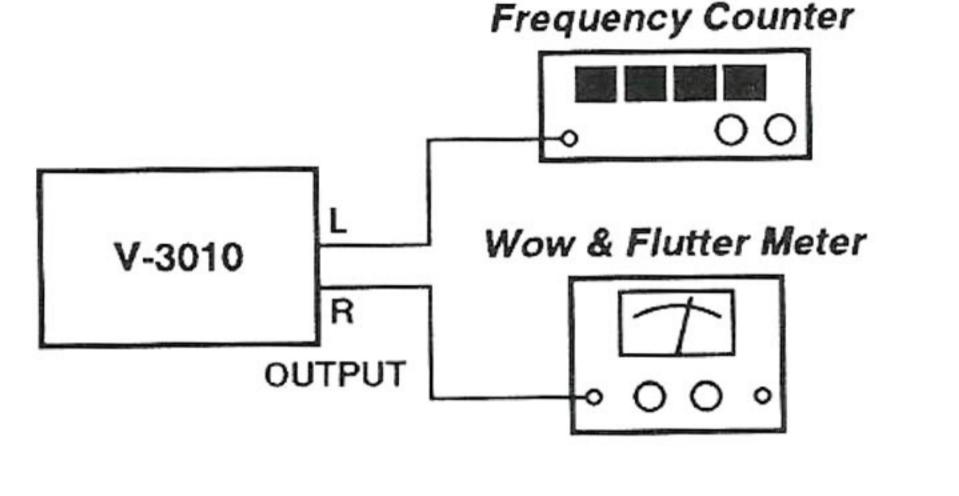


Fig. 3-1

# Adj. VR × Capstan motor

Fig. 3-2

#### 3-1-2 Wow and flutter (playback method)

- 1. Connect a wow-and-flutter meter to the deck as shown in Fig. 3-1.
- 2. Load and play a TEAC MTT-111N test tape.
- 3. Check that the readings on the wow-and-flutter meter are as follows.

(Except the beginning and the end of the tape) Specification : 0.12 % WRMS

3-1-2 ワウ・フラッタ(再生法)

- 1. Fig. 3-1のようにワウ・フラッタメーターを接続する。
- 2. テストテープMTT-111Nを再生する。
- 3. ワウ・フラッタ値が下の規格内に入ることを確認する。
  - (テープの巻始め、巻終りを除く)
  - 規格:0.12% WRMS

#### 3-1-3 Reel torque

- 1. Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the following specified values. Take-up: 30 to 70g · cm (TW-2111A) Supply: 2.5 to 6.0g · cm (TW-2111A)
  - F.F/REW: 80 to 180g · cm (TW-2231)

#### 3-1-3 リールトルク

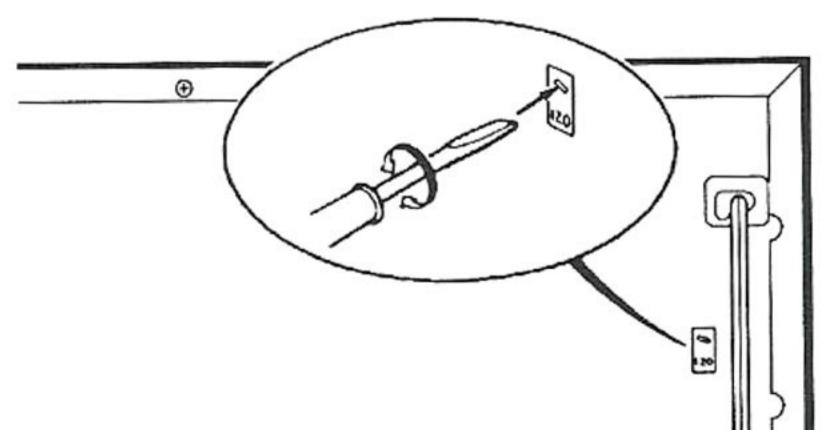
1. カセット型トルクメーターによる測定値が下記の範囲内である ことを確認する。 テイクアップトルク: 30~70g・cm (TW-2111A) バックテンショントルク: 2.5~6.0g・cm (TW-2111A) 早送り/巻戻しトルク: 80~180g・cm(TW-2231)

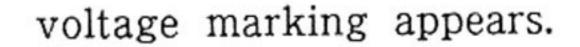
#### Voltage Conversion

(General export models only)

If it is necessary to change the voltage requirements of the deck to match your area, use the following procedure: 1. DISCONNECT POWER LINE CORD.

2. Using a screwdriver, turn the selector until the desired









## **3-2 ELECTRICAL ADJUSTMENT**

#### 3-2-1 Precautions

- Before performing adjustments and checks clean and demagnetize the entire tape path.
- In general, adjustments and checks are made in the order of Lch then Rch. Double REF. Nos. indicate Lch /Rch. (Example; R11/R21)
- 0dB is referenced to 0.775V.
- The AC voltmeter used in the procedures must have an input impedance of  $1M \Omega$  or more.
- Input terminals and measuring points at each step are the same as previous step, otherwise specified.

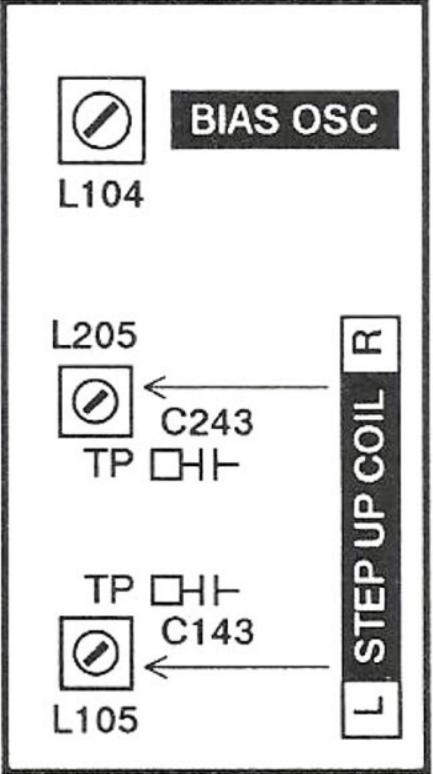
### 3-2 アンプ部の調整

#### 3-2-1 注意

- アンプ部の調整・確認の前に、テープ走行系の消磁と清掃を行 なってください。
- 特に指定のない限り、調整はLch, Rchの順序で行なってくだ さい。尚、R11/R21のように記されている回路番号はLch/ Rch を示します。
- OdB=0.775V
- 測定に使用するレベル計の入力インピーダンスは1MΩ以上の ものを使用してください。
- 入力端子及び測定個所は各ステップに於て特に明記されてい る場合を除き、直前のステップと同じです。

#### 3-2-2 Adjustment locations 調整個所

#### **OSC PCB**



#### MAIN PCB

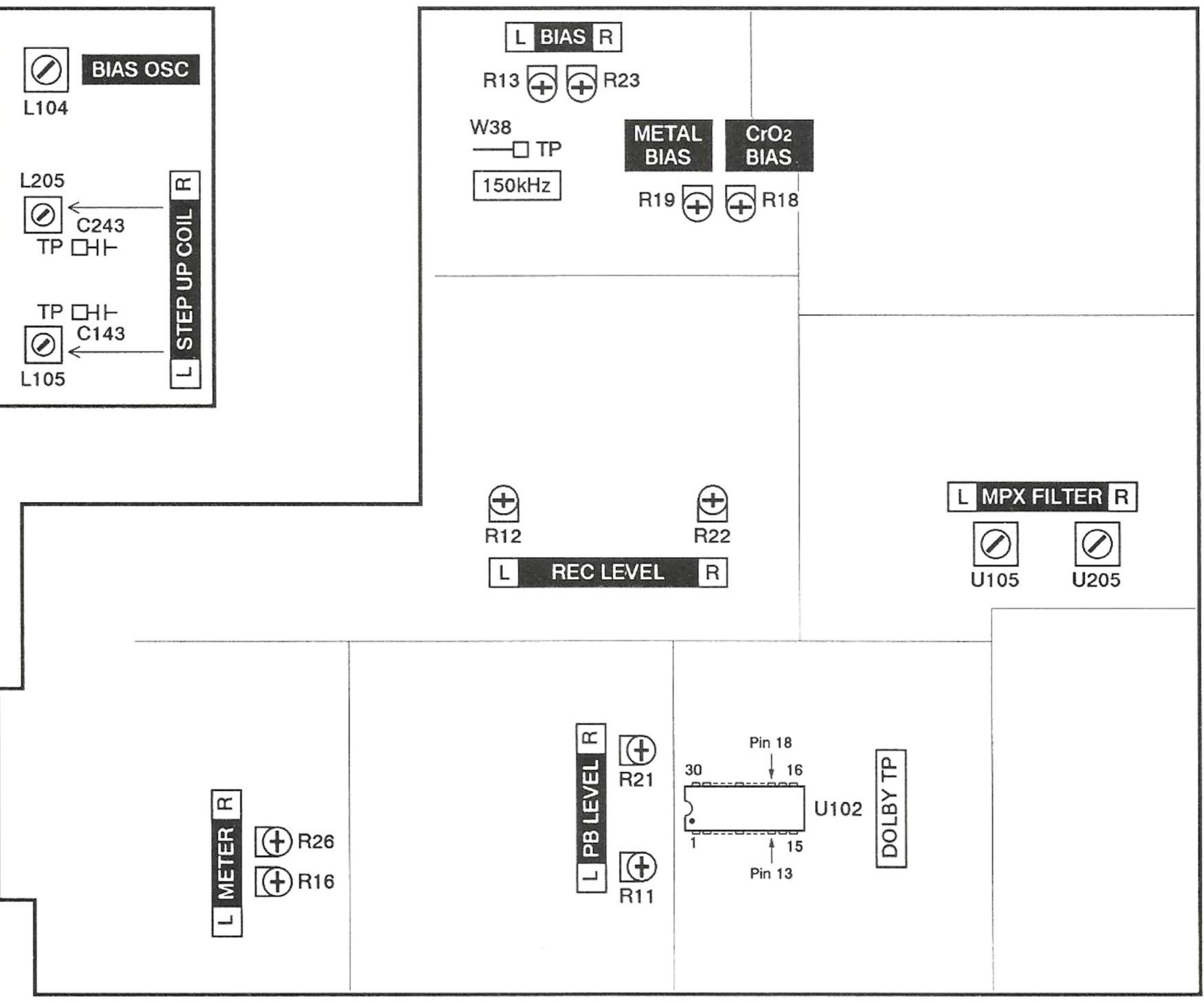


Fig. 3-3

#### 3-2-3 Playback performance 再生系

Deck settings :

k settir	ngs:			
Mode			:	PLAY
AUTO	MONITOR	Switch	:	TAPE

: OFF DOLBY NR Switch

MPX FILTER Switch : OFF TEAC test tapes : MTT-150C : For Dolby level calibration MTT-25702: For playback frequency response check NORMAL tape

MTT-5511 : For S/N check NORMAL tape

MTT-5571 : For S/N check METAL tape

ITEM 項 目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUSTMENTS 調整個所	MEASURING POINTS, RESULT 測定個所・調整値	REMARKS 備 考
<b>1. Head azimuth</b> adjustment アジマス調整	Connection : Fig. 3-5	MTT-25702 (10kHz)	Azimuth screw アジマス調整ねじ	OUTPUT: Maximum output level at L & R-ch, and in phase Lch、Rchとも出力最大 および同位相(Fig. 3-6)	Azimuth screw
<b>2. DOLBY level</b> ドルビーレベル	Connection : Fig. 3-7	MTT-150C	R11/R21	DOLBY TP U102 Pin13/Pin18: -6dB (388mV)	
<b>3. Playback</b> output level 再生出力レベル	ltem 2	MTT-150C	Check	OUTPUT: -2±1dB (548mV~690mV) Phase:within 45° 位相:45°以内	Ref. output level 基準出力レベル
<b>4. Meter level</b> メーターレベル	ltem 2	MTT-150C	R16/R26	PEAK LEVEL METER: – 1dB (DD mark)	
5. Playback frequency response 再生周波数特性	Connection : Fig. 3-4	MTT-25702	Check	250 1k	+4dB 
<b>6. Playback S/N</b> ratio 再生 S/N 比	Item 2	MTT-5511 MTT-5571 Playback the leader tape portion リーダーテープ部を 再生	Check	NORMAL : 45dB min. METAL : 46dB min.	Ratio of ref. level to noise 基準出力レベルと ノイズの比

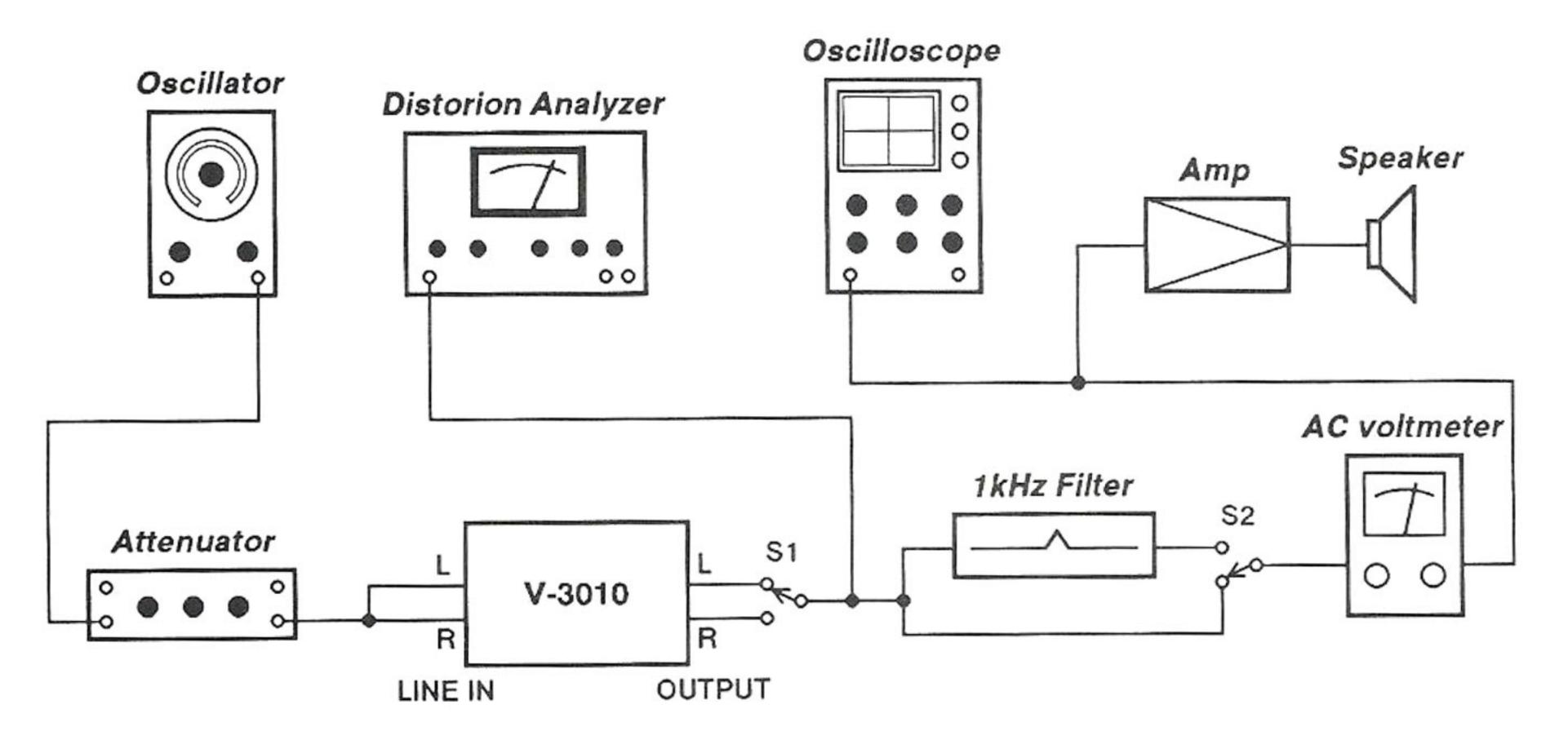


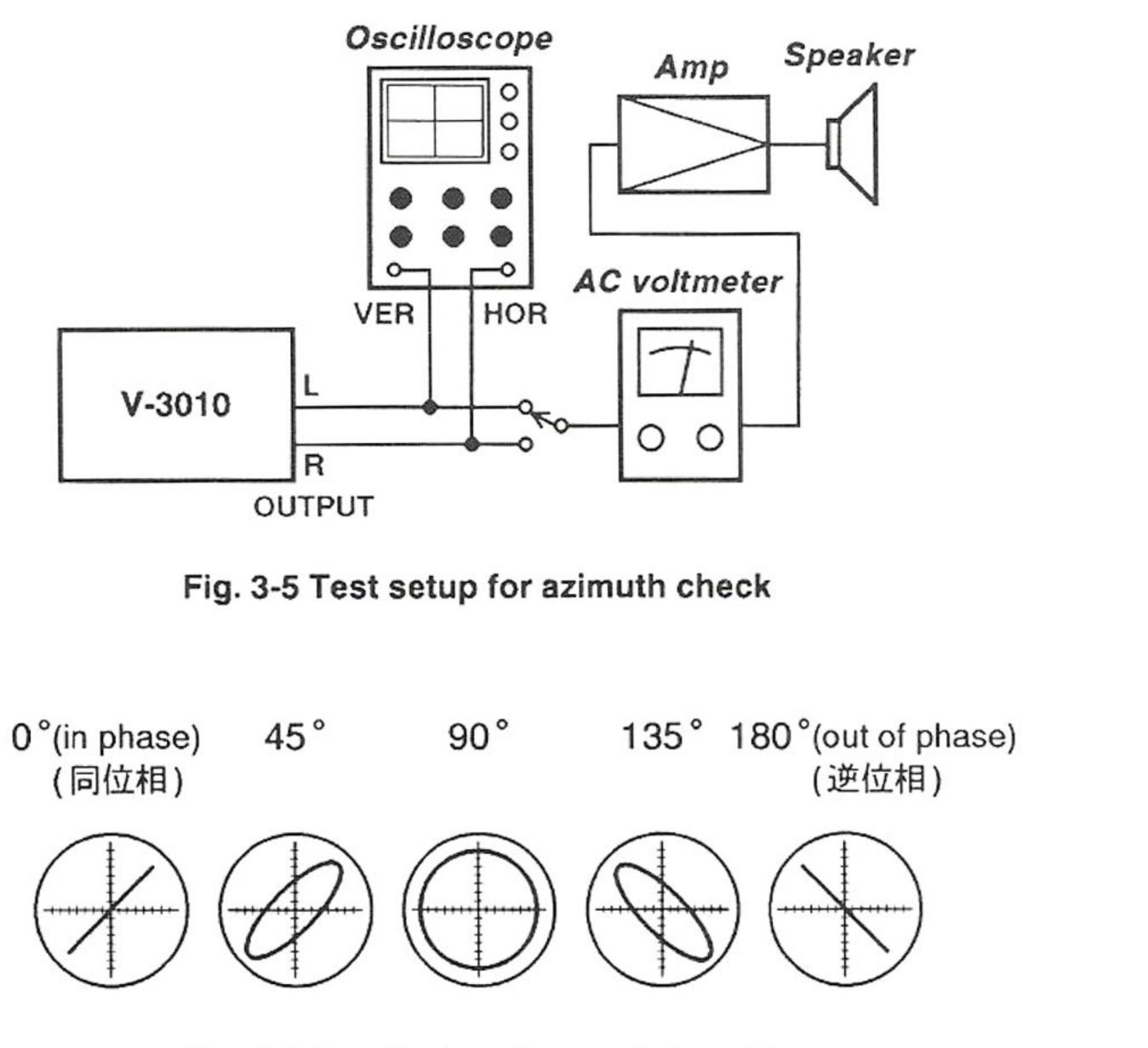
Fig. 3-4 Basic test setup

#### 3-2-4 Monitor performance モニター系

Deck settings :

Mode : STOP AUTO MONITOR Switch : SOURCE DOLBY NR Switch : OFF MPX FILTER Switch : OFF

ITEM 項 目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUSTMENTS 調整個所	MEASURING POINTS, RESULT 測定個所・調整値	REMARKS 備 考
7. Min. LINE input level ライン最小 入力レベル	Connection : Fig. 3-4 REC LEVEL Control:MAX BALANCE Control:Center	LINE IN : 400Hz/- 19dB (87mV)	Check	OUTPUT : - 2 ± 3dB (436mV~870mV)	
8. Specified LINE input level ライン規定 入力レベル	Connection : Fig. 3-4	LINE IN : 400Hz/- 9dB (275mV)	REC LEVEL VR BALANCE VR	OUTPUT : – 2dB (616mV)	After adjusting, do not move (Specific position) 調整後は動かさな いこと(規定位置)
<b>9. MPX filter</b> MPX フィルター	ltem 8 MPX FILTER Switch:ON	LINE IN : 19kHz/- 9dB (275mV)	U105/U205	OUTPUT: Minimum 最小	Ratio of ref. output to signal (30dB min.) 基準出力に対し 30dB以上
<b>10. Monitor</b> S/N ratio モニター S/N 比	ltem 8	LINE IN : No signal 無信号	Check	60dB min.	Ratio of ref. level to noise 基準出力レベルと ノイズの比
11. Monitor frequency response モニター 周波数特性	Item 8	LINE IN : 40Hz~16kHz/ - 9dB (275mV)	Check	40 400	+2dB -2dB 16k(Hz)
<b>12. PHONES</b> output level PHONES 出力レベル	Item 8 Connection : Fig. 3-8 PHONES LEVEL:MAX	LINE IN : 400Hz/- 9dB (275mV)	Check	OUTPUT : - 16 ± 3dB (87mV~174mV)	8 Ω load 8 Ω 負荷



MAIN PCB

AC voltmeter

l r	-	_	_	

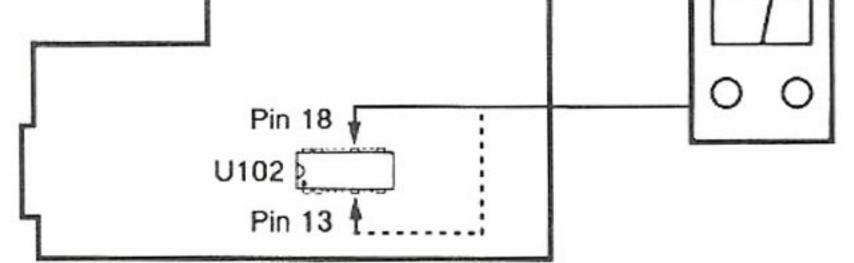


Fig. 3-7 Test setup for DOLBY level adjustment

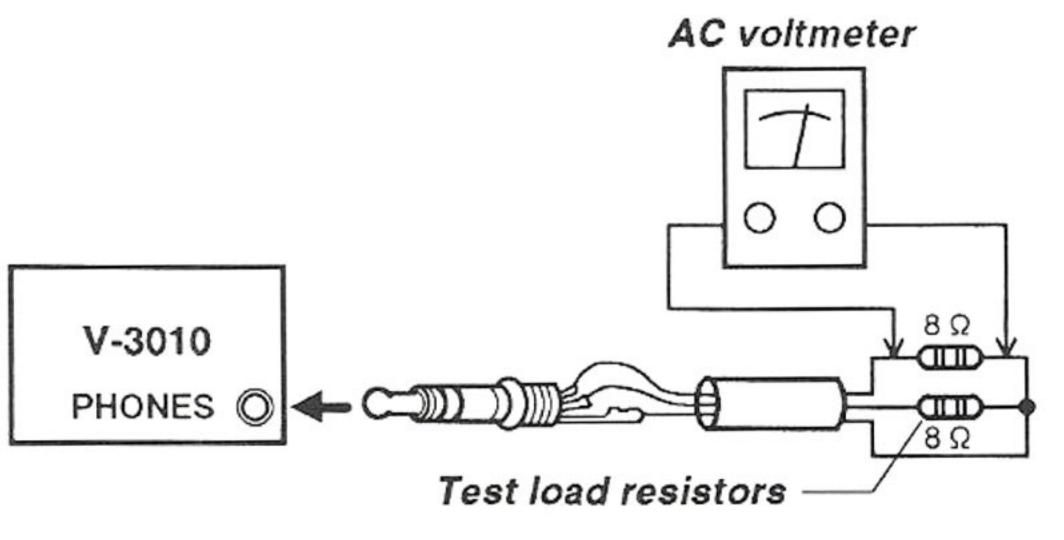


Fig. 3-8 Test setup for PHONES check

Fig. 3-6 Confirming phase relationship

### 3-2-5 Recording performance 録音系

Deck settings :		TEAC recording test tapes :
Mode	: RECORD	MTT-5511 : For NORMAL
AUTO MONITOR Swite	h : TAPE	MTT-5561 : For CrO2
DOLBY NR Switch	: OFF	MTT-5571 : For METAL
MPX FILTER Switch	: OFF	
<b>REC LEVEL Control</b>	: Specified position 規定位置(Item8)	
BALANCE Control	: Specified position 規定位置(Item8)	
BIAS FINE Control	: Center position	

ITEM 項 目	SETTING 設定	<b>INPUT SIGNAL</b> 入力信号	ADJUSTMENTS 調整個所	MEASURING POINTS, RESULT 測定個所・調整値	REMARKS 備 考
<b>13. Bias osc</b> frequency バイアス 発振周波数	Connection : Fig. 3-9 TAPE : MTT-5571	LINE IN : No signal 無信号	L104	W38 : 150 ± 5kHz	
<b>14. Step up coil</b> ステップアップ コイル	Item 13 Connection : Fig. 3-10	LINE IN: No signal 無信号	L105/L205	C143/C243: Min. DC voltage DC 電圧最小	
<b>15. Record bias</b> 録音バイアス [NORMAL]	Connection : Fig. 3-4 TAPE : MTT-5511	LINE IN : 400Hz/10kHz – 42dB (6.15mV)	R13/R23	OUTPUT: Nearly equal level at both frequencies 両周波数の録再出力が 同レベル	
<b>16. Record level</b> 録音レベル [NORMAL]	TAPE : MTT-5511	LINE IN : 400Hz/- 12dB (195mV)	R12/R22	OUTPUT : - 5dB (436mV)	
<b>17. Record bias</b> 録音バイアス [Cr0₂/METAL]	TAPE : MTT-5561 TAPE : MTT-5571	LINE IN : 400Hz/10kHz – 42dB (6.15mV)	CrO₂ : R18 METAL : R19	Same as item 15	
<b>18. Record level</b> 録音レベル	TAPE : MTT-5511 TAPE : MTT-5561 TAPE : MTT-5571	LINE IN : 400Hz/- 12dB (195mV)	Check	OUTPUT : $-5 \pm 2dB$ (NR OUT) $-5 \pm 3dB$ (NR IN)	
19. Total harmonic distortion 総合歪率	ltem 18	LINE IN : 400Hz/- 12dB (195mV)	Check	NORMAL : 2.0 % or less $CrO_2$ : 2.5 % or less METAL : 2.5 % or less	
20. Overall frequency response 録再周波数特性	TAPE : MTT-5511	LINE IN : 63Hz~12.5kHz/ – 42dB (6.15mV)	Check	63 400	+4dB -4dB 12.5k(Hz)
21. Overall S/N ratio 総合 S/N 比	ltem 18	LINE IN : No signal 無信号	Check	NORMAL : 44dB min. CrO <sub>2</sub> : 45dB min. METAL : 45dB min.	Ratio of ref. level to noise 基準出力レベルと ノイズの比
22. Erase efficiency 消去率	TAPE : MTT-5571 1kHz B.P.F in	LINE IN : 1kHz/+ 1dB (870mV)	Check	65dB min.	Ratio of the 1kHz recorded portion to the erased portion. 未消去部分と消去 部分の比

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ITEM 項 目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUSTMENTS 調整個所	MEASURING RESULT 調整値	REMARKS 備 考
23. REC MUTE function REC MUTE 効果	TAPE : MTT-5571 1kHz B.P.F in	LINE IN : 1kHz/+ 1dB (870mV)	Check	65dB min.	Ratio of the 1kHz recorded portion to the "REC MUTE"portion. 録音部分と"REC MUTE" 部分の比
<b>24. Channel</b> <b>seperation</b> チャンネル セパレーション	TAPE : MTT-5571 1kHz B.P.F in	LINE IN: Lch 1kHz/-9dB (275mV) Rch No signal 無信号	Check	30dB min.	Ratio of the 1kHz recorded portion (Lch) to the no signal portion (Rch). 録音部分 (Lch) と無信号部 分 (Rch) の比
25. Adjacent track crosstalk トラック間 クロストーク	TAPE : MTT-5571	LINE IN: Lch No signal 無信号 Rch 125Hz/-9dB (275mV)	Check	40dB min.	Invert tape and play Rch track. Check leckage level against the output reference of previously recorded portion. テープを反転して再生した 時のRch出力レベルの比
<b>26. BIAS FINE</b> range BIAS FINE 可変幅	Item 20	LINE IN : 10kHz/- 42dB (6.15mV)	BIAS FINE VR	5dB min.	



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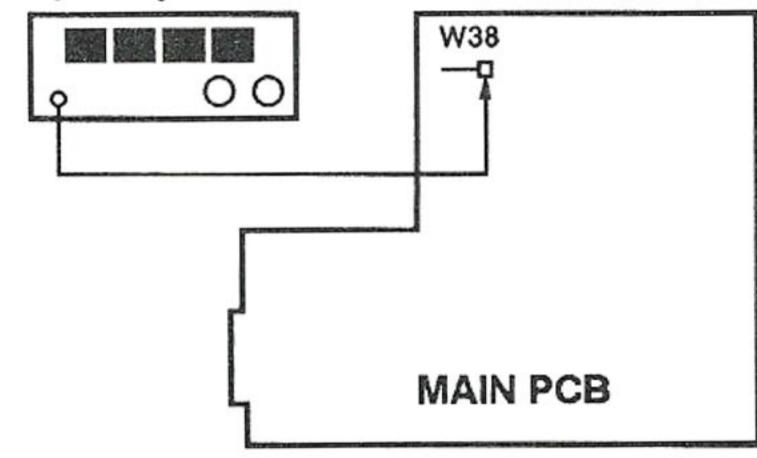
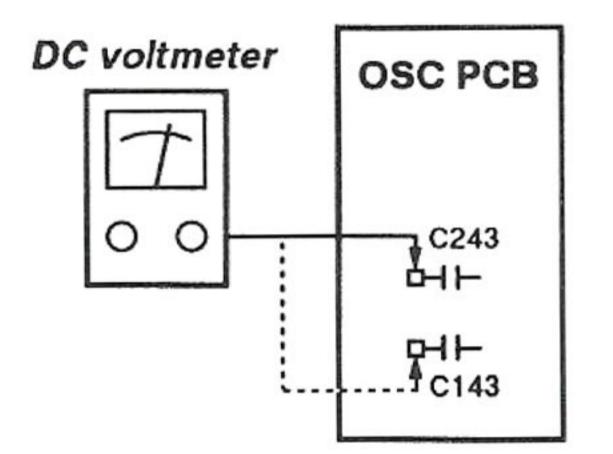
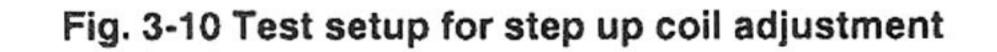


Fig. 3-9 Test setup for bias OSC adjustment

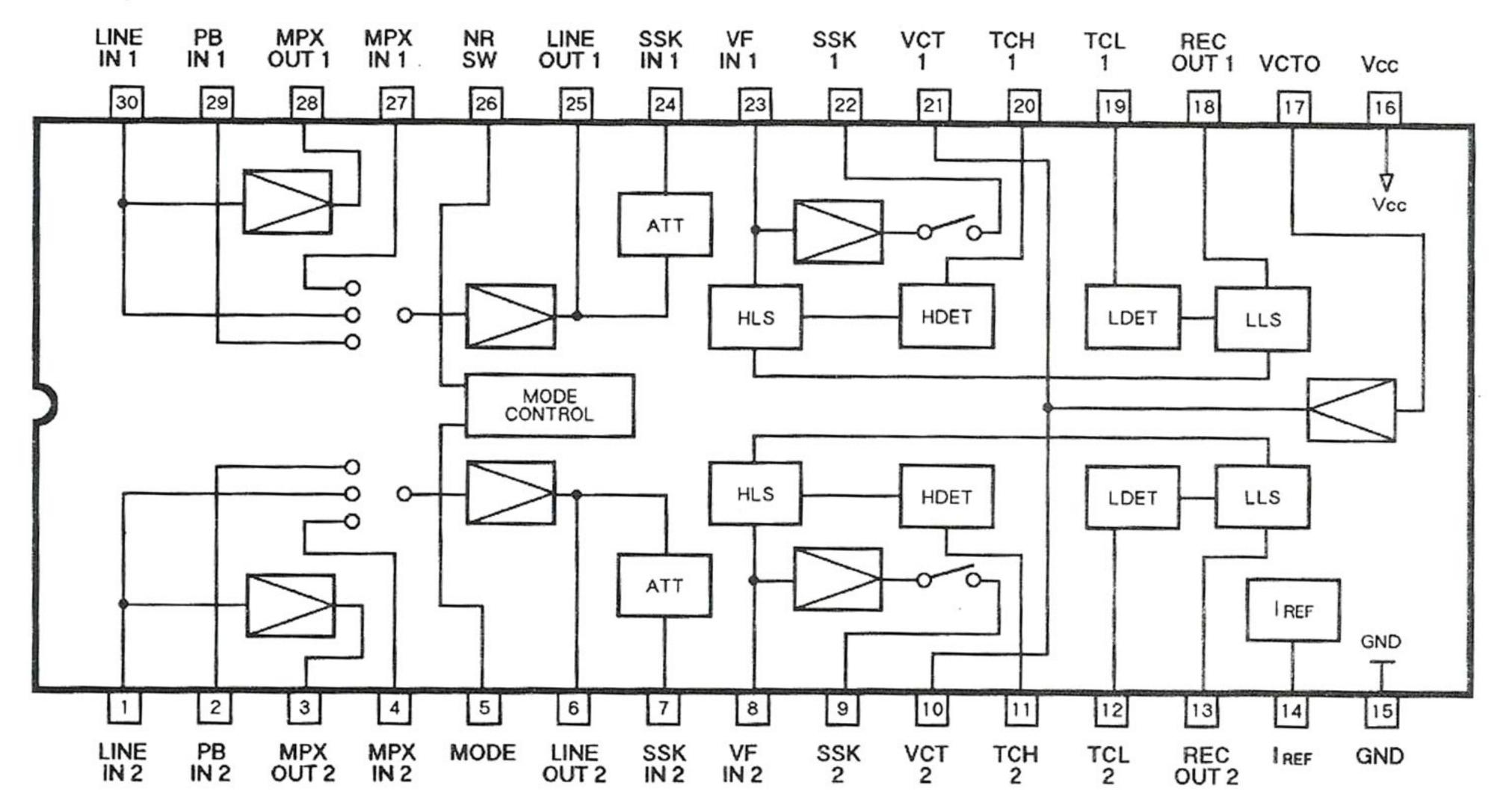




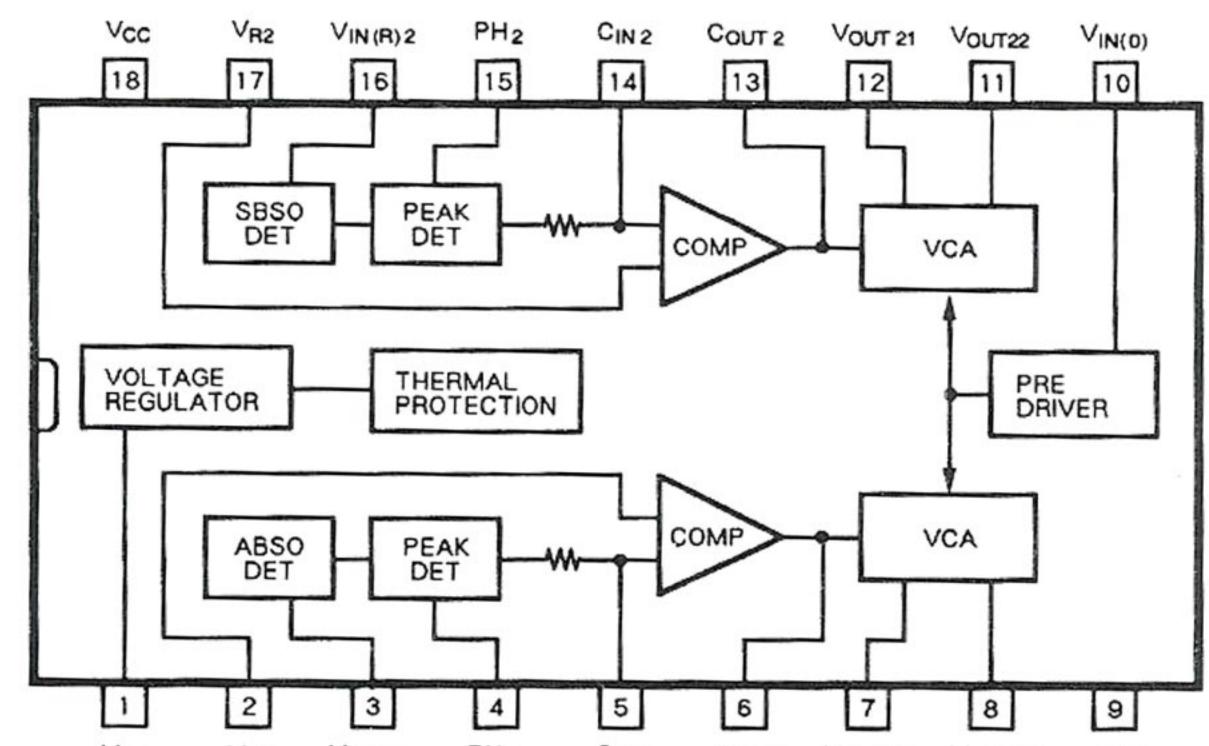


## **4 IC BLOCK DIAGRAMS** ICブロックダイアグラム

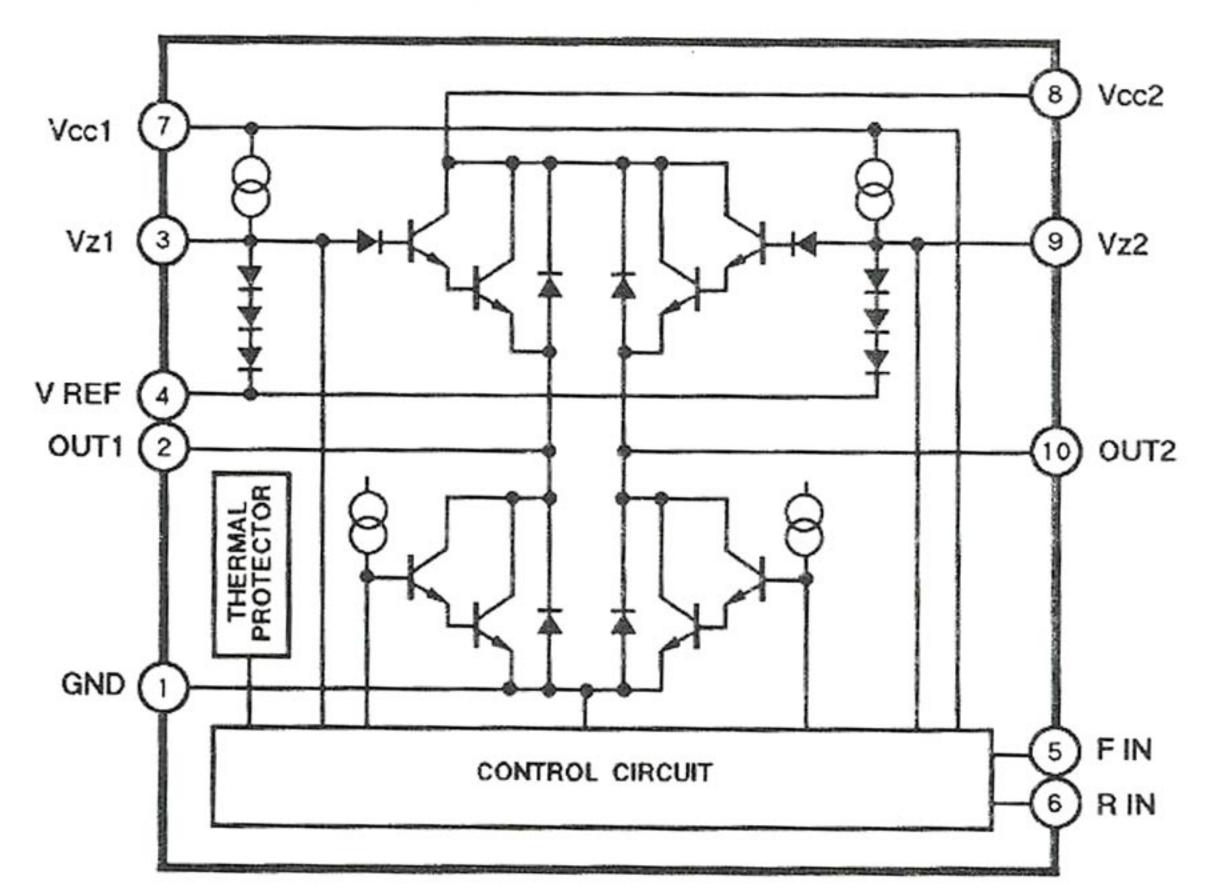
#### U102, U104 CXA1330S



#### U107 uPC1297CA

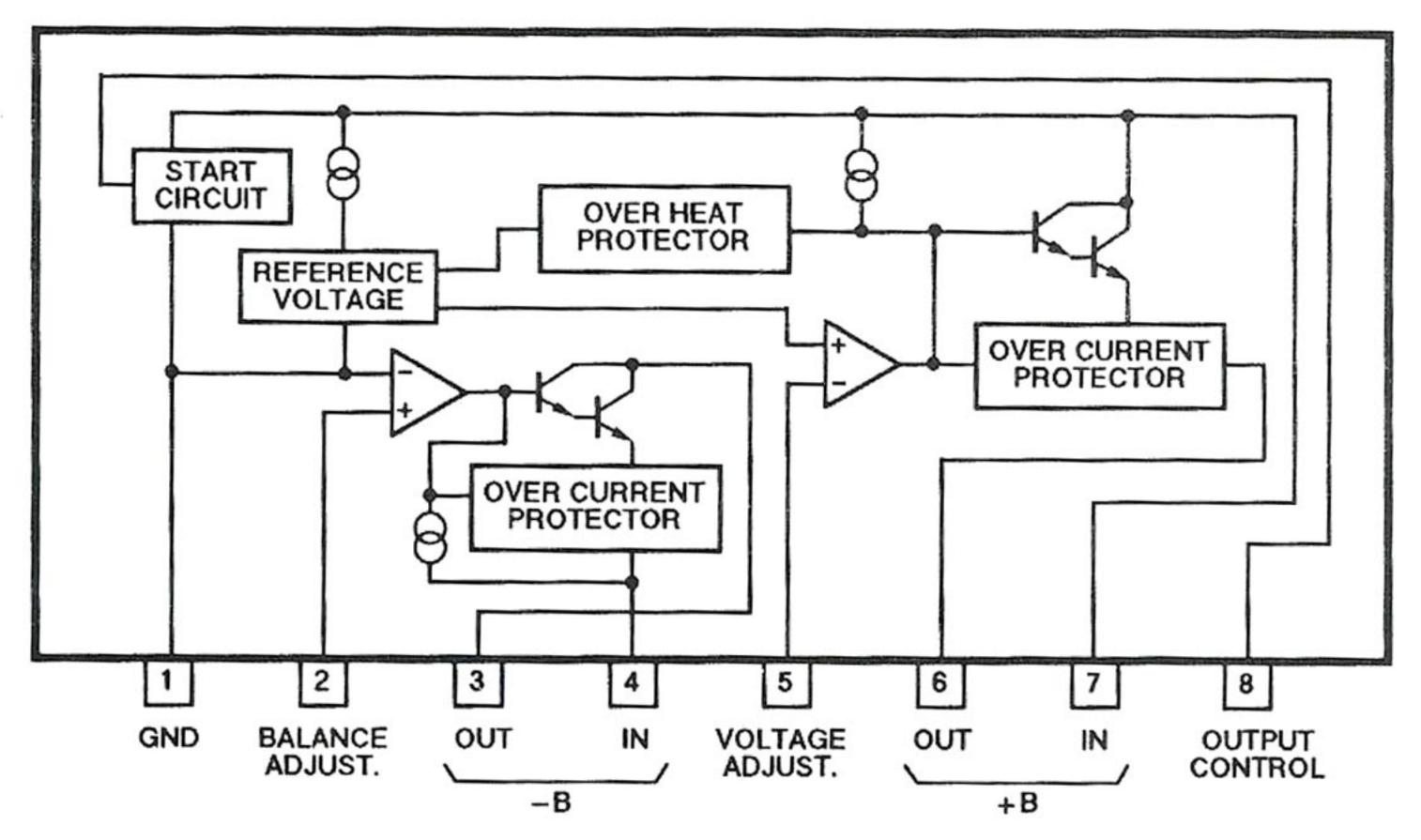


U502 BA6219B

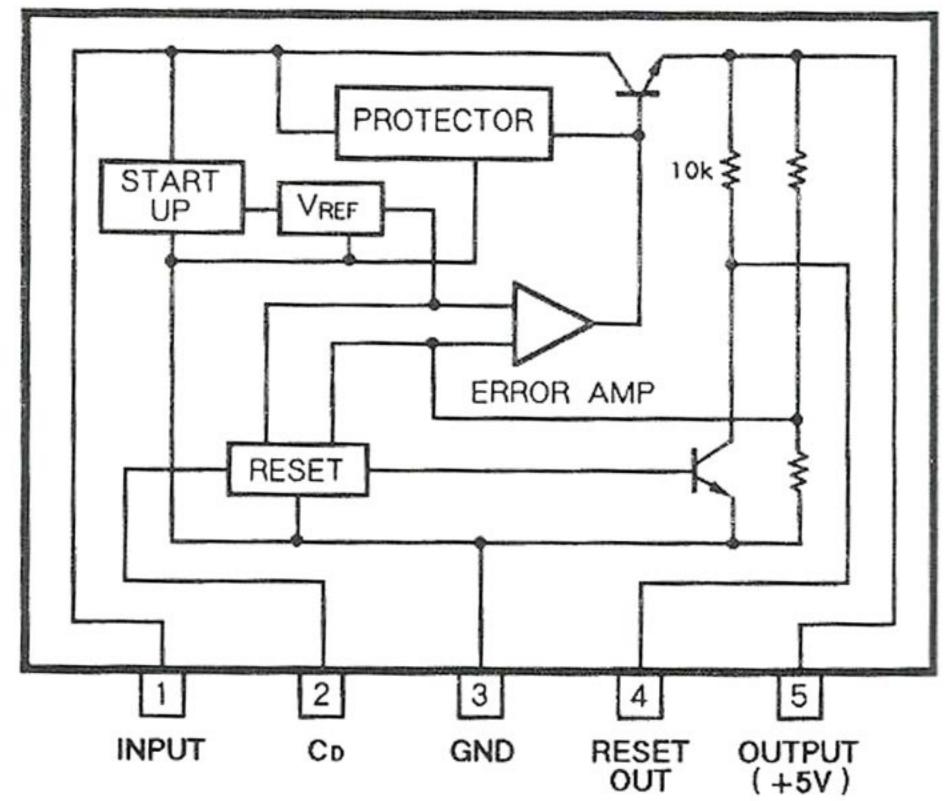


#### U111 M5230LA

10



#### U503 L78MR05

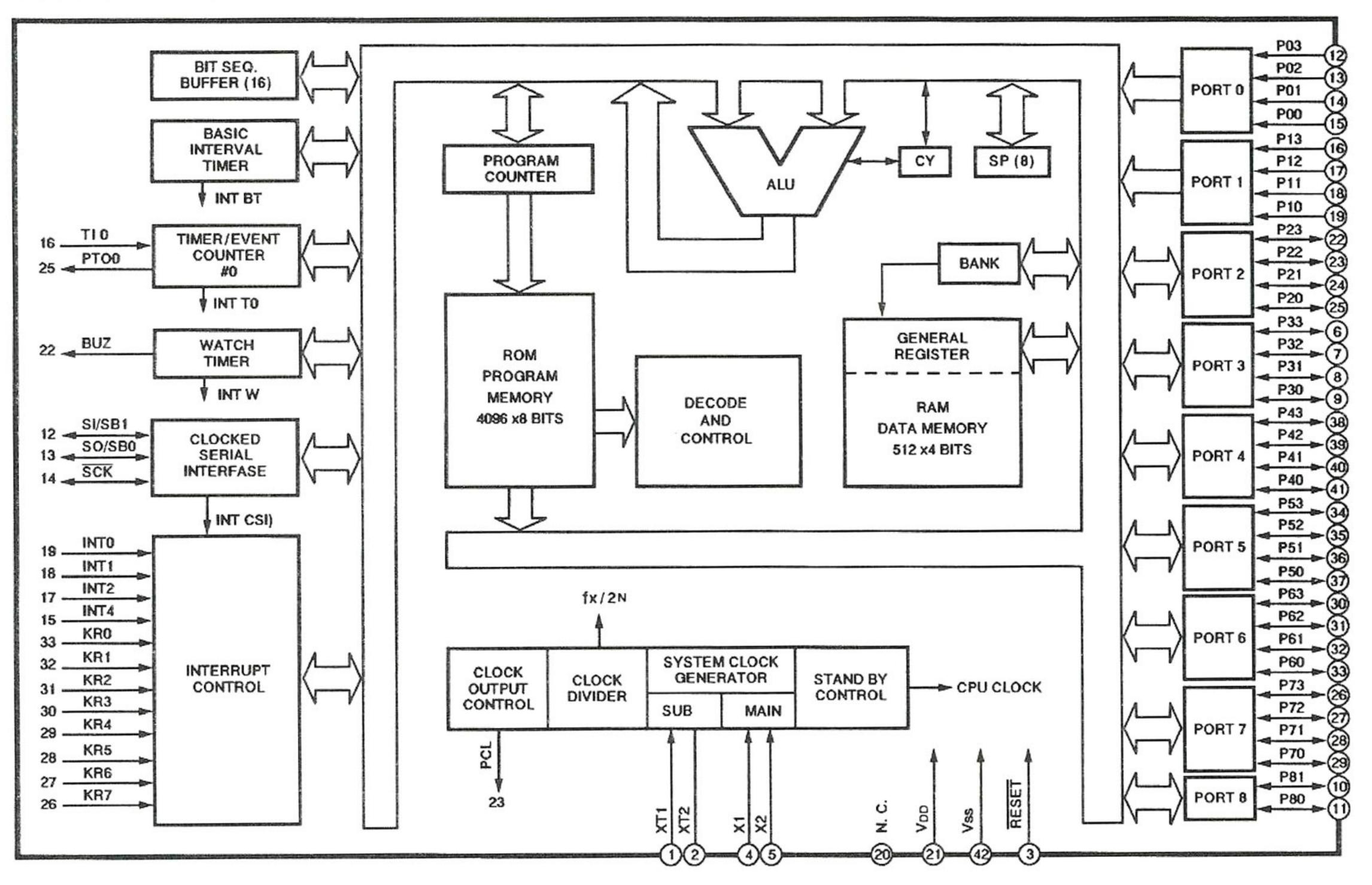




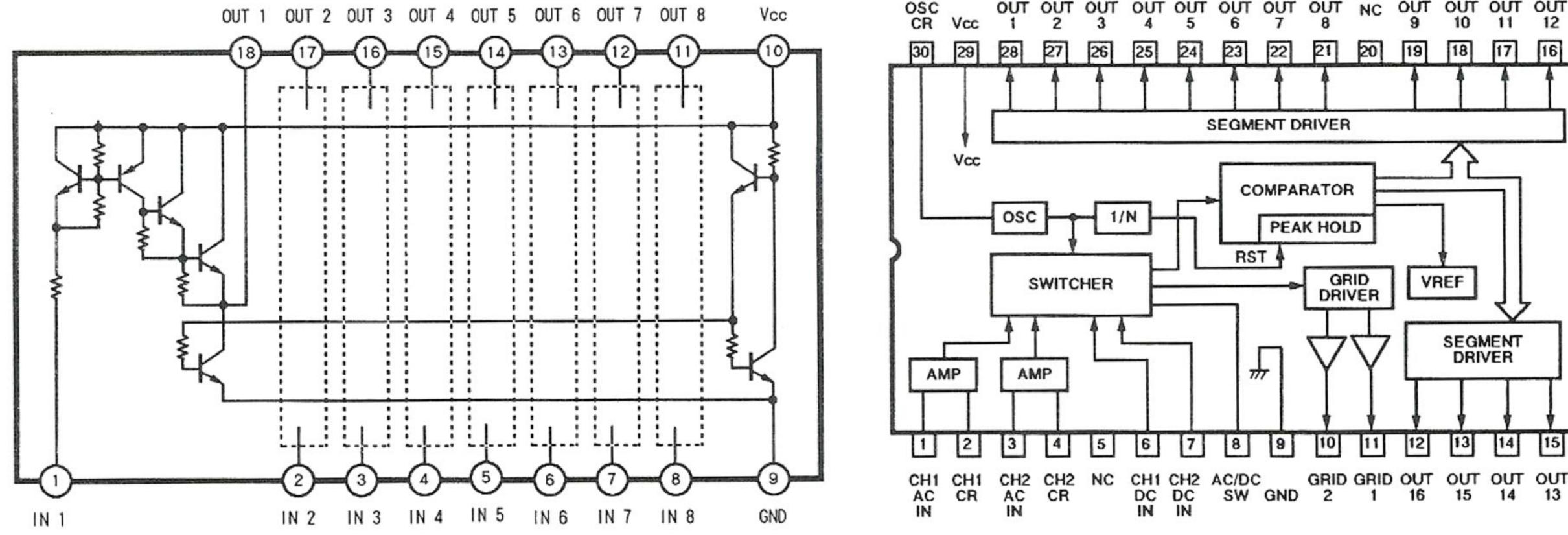


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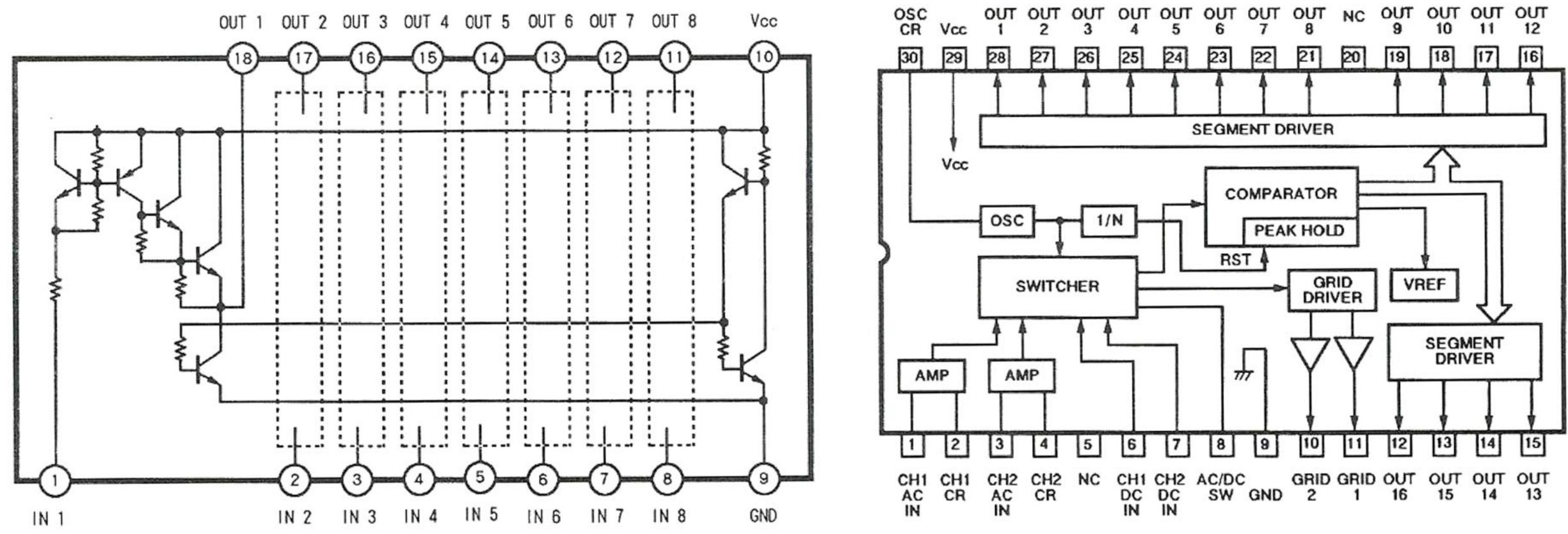
#### U501 uPD75004CU



#### U601 LB1240

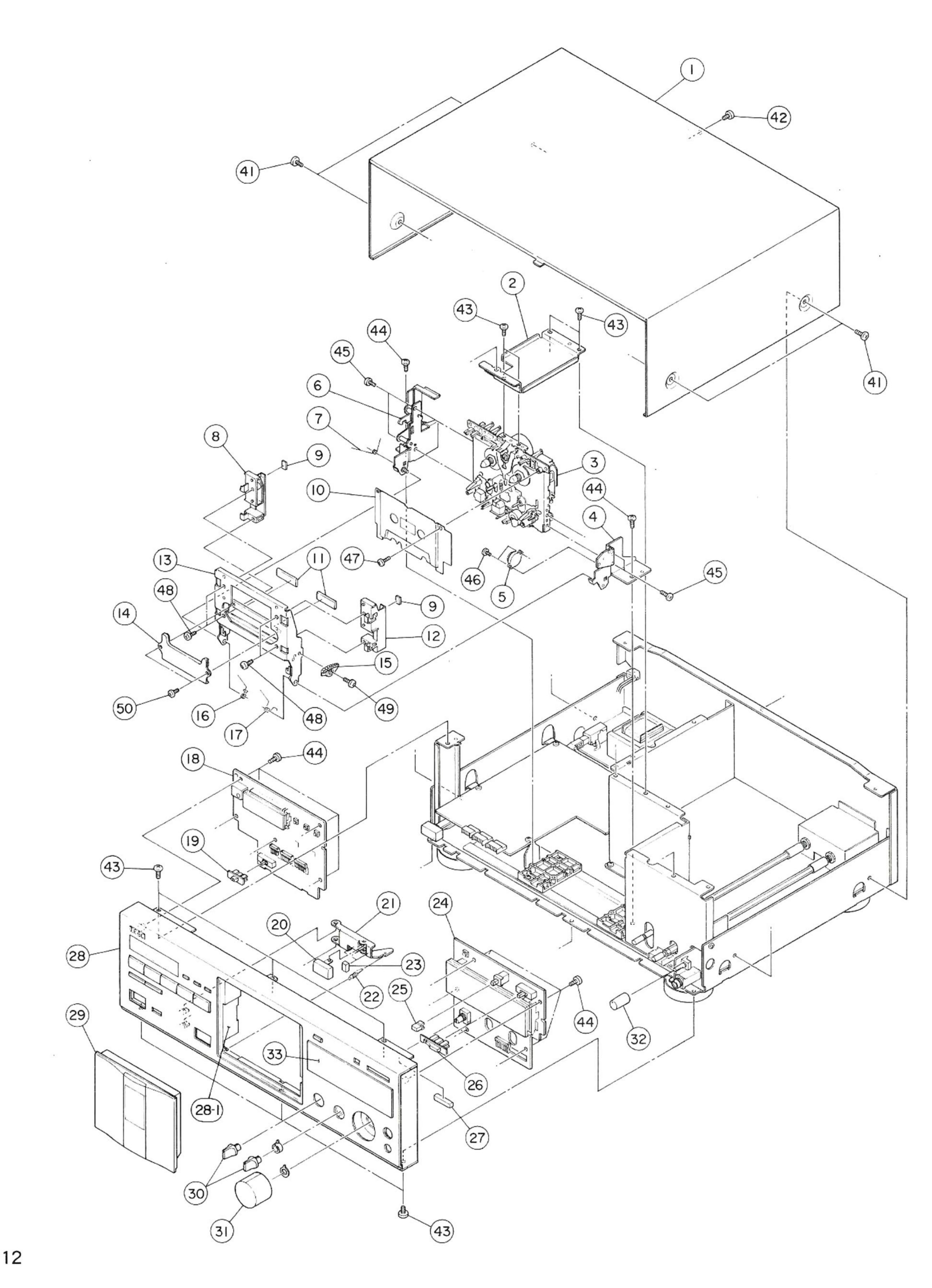


#### U603 BA6800AS



# 5 EXPLODED VIEWS AND PARTS LIST 分解図とパーツリスト

**EXPLODED VIEW-1** 





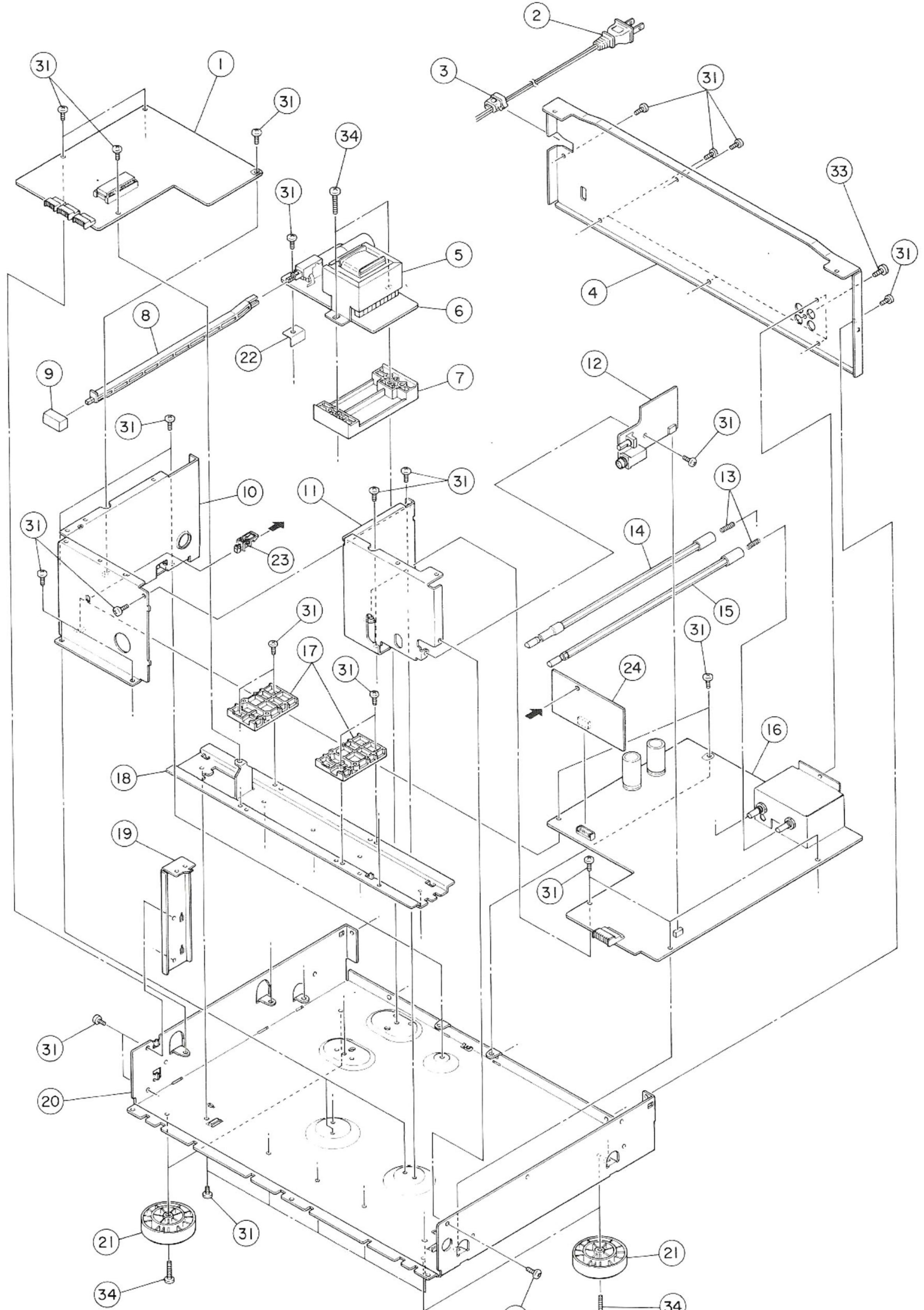
REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
- 1  - 2  - 3  - 4  - 5	*5761854901 *5801415900	DAMPER BRACKET ASSY	Refer to pages 16 and 17, 4A0105
I- 6 I- 7 I- 8 I- 9 I-10		HOLDER UP SPG CASSETTE GUIDE (L) CUSHION T2	
-  2  - 3  - 4  - 5	*5801416000	CASSETTE GUIDE (R) HOLDER ASSY LID PLATE ASSY	
I-16 I-17 I-18	ngg, 한 비밀한 기술한 것을 통하는 것 때 가슴을 생각한 것을 알았습니까?	STABILIZER SPG (L) STABILIZER SPG (R) DISPLAY L PCB ASSY	Refer to pages 18 and 21

1-21       *5801408900       EJECT BUTTON ARM         1-22       *5801409100       BUTTON ARM SPRING         1-23       *5801440000       BUTTON CUSHION         1-24       *5200344300       DISPLAY R PCB ASSY         1-25       *5801407500       PUSH BUTTON         1-26       *5801407900       NR KNOB         1-27       *5801407900       PCB CUSHION         1-28       *5801507600       FRONT PANAL (301) ASSY         1-29       *5801508400       LID (301) ASSY         1-29       *5801409300       KNOB (PAN)         1-31       *5801406100       METER COVER         1-33       *5801406100       METER COVER         1-41       *580612400       SCREW, M3X8 (BLK)         1-42       *578353008       SCREW, BIND B-TITE M3X8 (BLK NI)         1-43       *5783753008       SCREW, BIND P-TITE M3X8 (CU)         1-44       *5783753008       SCREW, BIND P-TITE M3X8 (CU)         1-45       *5783003004       SCREW, PAN S-TITE M3X4	١	-19	*5801407700 *5801409000		Nerei	10	pages	10	anu
1-27       *5801434100       PCB CUSHION         1-28       *5801507600       FRONT PANAL (301) ASSY         1-28-1       *5772922201       FRONT ESCUTCHEON ASSY         1-29       *5801508400       LID (301) ASSY         1-30       *5801409300       KNOB (PAN)         1-31       *5801411700       KNOB ASSY (B)         1-32       *5801411200       KNOB (B-B)         1-33       *5801406100       METER COVER         -41       *580512400       SCREW, M3X8 (BLK)         -42       *5783533008       SCREW, BIND B-TITE M3X8 (BLK NI)         1-43       *5783763006       SCREW, BIND B-TITE M3X8 (CU)		-22 -23 -24	*5801409100 *5801440000 *5200344300	BUTTON ARM SPRING BUTTON CUSHION DISPLAY R PCB ASSY	Refer	to	pages	18	and
<ul> <li>1-31 *5801411700 KNOB ASSY (B)</li> <li>1-32 *5801411200 KNOB (B-B)</li> <li>1-33 *5801406100 METER COVER</li> </ul> 1-41 *5800612400 SCREW, M3X8 (BLK) 1-42 *5783533008 SCREW, BIND B-TITE M3X8 (BLK NI) 1-43 *5783763006 SCREW, BIND B-TITE M3X6 (CU) 1-44 *5783753008 SCREW, BIND P-TITE M3X8 (CU)		-27 -28 -28-1	*5801434100 *5801507600 *5772922201	PCB CUSHION FRONT PANAL (301) ASSY FRONT ESCUTCHEON ASSY					
<ul> <li>1-42 *5783533008 SCREW, BIND B-TITE M3X8 (BLK NI)</li> <li>1-43 *5783763006 SCREW, BIND B-TITE M3X6 (CU)</li> <li>1-44 *5783753008 SCREW, BIND P-TITE M3X8 (CU)</li> </ul>		-31	*5801411700 *5801411200	KNOB ASSY (B) KNOB (B-B)					
		-42 -43 -44	*5783533008 *5783763006 *5783753008	SCREW, BIND B-TITE M3X8 (BLK NI) SCREW, BIND B-TITE M3X6 (CU) SCREW, BIND P-TITE M3X8 (CU)					

1-46	*5783012004	SCREW,	PAN B-TITE M2X4
-47	*5783542612	SCREW,	BIND P-TITE M2.6X12 (BLK NI)
- 48	*5783542608	SCREW,	BIND P-TITE M2.6X8 (BLK NI)
1-49	*5783552604	SCREW,	PAN B-TITE M2.6X4 (BLK NI)
1-50	*5780102602	SCREW,	PAN M2.6X2.5 (BLK NI)

#### **INCLUDED ACCESSORIES**

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
		OWNER'S MANUAL (J) [J] OWNER'S MANUAL (E) [EXCEPT J] OWNER'S MANUAL (M) [C,E]	
	*5744080200 5347006900 5347007000 *5350017300		

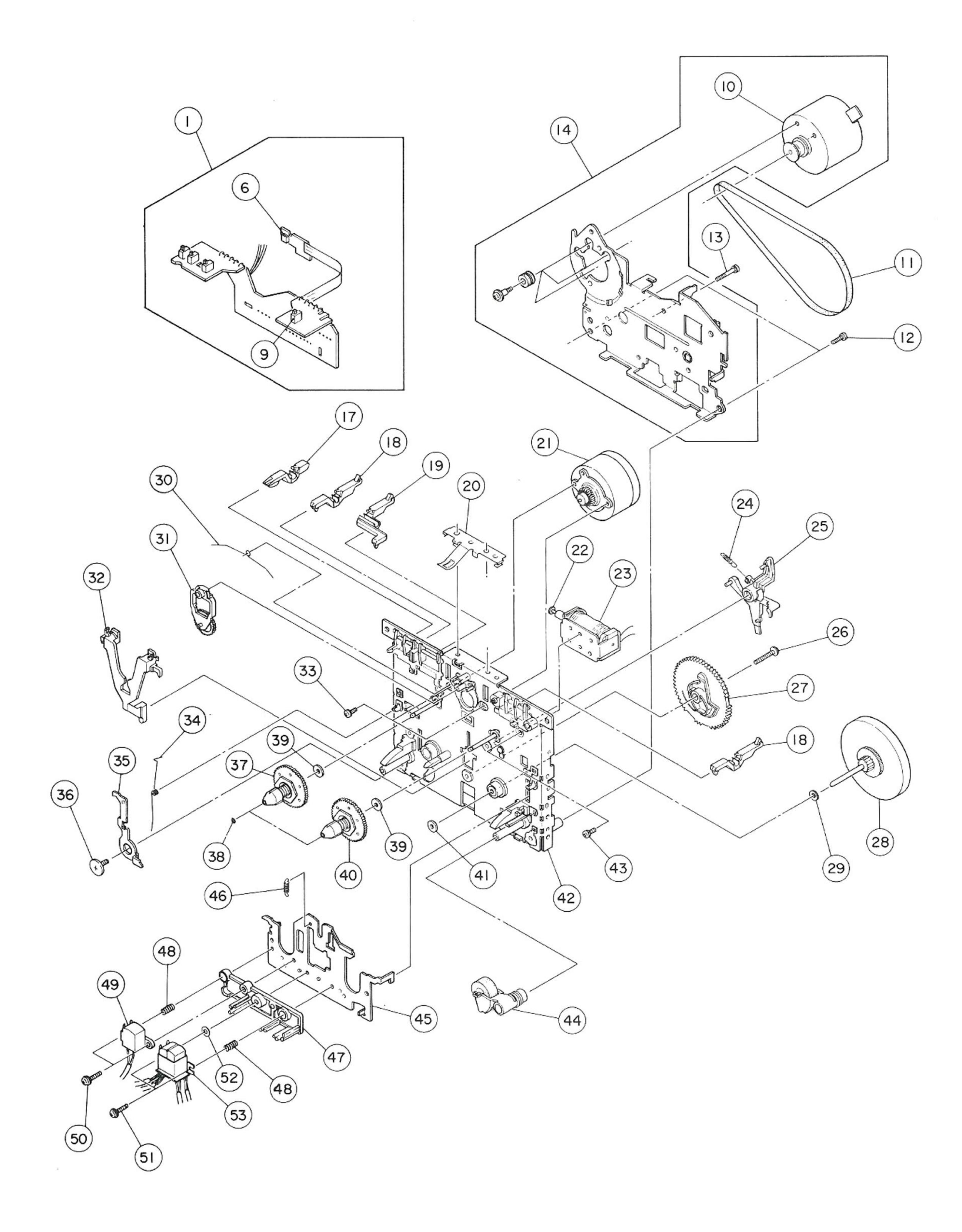


31 34



REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1 2- 2	<ul> <li>▲ 5350015600</li> <li>▲ 5350017800</li> <li>▲ 5350010800</li> <li>▲ 5350017500</li> <li>▲ 5128047000</li> </ul>	AC CORD, SPT-2 [US,C] AC CORD, SPT-1 [GE] AC CORD, CLASS 2 [E]	Refer to pages 20 and 22
2- 3 2- 4	*5801509400	BUSHING, 2271 REAR PANEL G [EXCEPT GE] REAR PANEL H [GE]	
2- 5 2- 6	*5200344500 *5200344510 *5200344530 *5200344540 *5200344550	POWER TRANSFORMER TRANS PCB ASSY [J] TRANS PCB ASSY [US,C] TRANS PCB ASSY [GE] TRANS PCB ASSY [E] TRANS PCB ASSY [UK] TRANS PCB ASSY [A]	Refer to pages 20 and 22 Refer to pages 20 and 22
2- 7	*5801406000	TRANS BASE	

2- 8 2- 9	*5801406200 *5801406800	JOINT ROD (P) POWER BUTTON						
2-10 2-11 2-12 2-13 2-14	*5801511700 *5801511600 *5200340600 *5801362200 *5801434001	CENTER CHASSIS B (CU) CENTER CHASSIS A (CU) PHONE PCB ASSY EARTH SPRING (2) SHAFT ASSY (3)	Refer	†0	pages	20	and	22
2-15 2-16 2-17 2-18 2-19	*5801412001 *5200340500 *5801406500 *5801405100 *5801406700	SHAFT ASSY (1) MAIN PCB ASSY MECHA BASE (B) CHASSIS ANGLE PANEL ANGLE	Refer	to	pages	19	and	21
2-20 2-21 2-22 2-23 2-24	*5801414900 *5801435000 *5787091000 *5200340700	MAIN CHASSIS (CU) FOOT ASSY INSULATOR SHEET [E,UK,A] PCB SUPPORT, KGES-10 OSC PCB ASSY	Refer	to	pages	19	and	21
2-31 2-32 2-33 2-34	*5783763006 *5783753008 *5783034020	SCREW, BIND B-TITE M3X6(CU) Not used SCREW, BIND P-TITE M3X8(CU) SCREW, BIND S-TITE M4X20						







REF.NO.	PARTS NO.	DESCRIPTION		REMARKS
3- 1 3- 2 3- 3 3- 4 3- 5	*5761837700	PCB BASE BLK Not used Not used Not used Not used	F567-110	
3- 6 3- 7 3- 8 3- 9 3-10	*5761858800 5761748700 5761837600	AWI3G-00 Not used Not used SW, PUSH MTR MAIN BLK	SG-107F3 UE16E-11 F525-S279	
3-11 3-12 3-13 3-14 3-15	5761769200 *5761690900 *5761769300 5761858600	MAIN BELT SCREW, WAVE M2.6X8 SCREW, S-TITE M2.6X23.5 MTR MAIN BLK Not used	FF15R-11 UG12H-14 UG17H-11 F525-278	
3-16 3-17 3-18 3-19 3-20	5761858700 5761837300 5761842800 *5761750200	Not used REVER PACK REC DETECT LEVER METAL DETECT LEVER CASSETTE PRESS SPRING	FD38T-12B FD38S-21 FD38U-12 FC40N-32	
3-21 3-22 3-23 3-24 3-25	5761859300 5761746300 5761836800 *5761768800 *5761769000	MTR REEL BLK SOLENOID PIN SOLENOID BLK PLAY ARM SP PLAY ARM (F)	F564-291 PL366-11 F765-251 FK22G-14 FD38M-22	4A0105
3-26 3-27 3-28 3-29 3-30	*5761836300 5761837200 5761837400 *5761689200 *5761745400		UG17L-11 FD38P-18 FR18M-41B FJ111-30 FK22E-11	
3-31 3-32 3-33 3-34 3-35	*5761745900 *5761768600	IDLER ASSY HOLD LEVER (C) SCREW, PAN SW M2.6X6 ZN EJECT PREVENT SP (L) EJECT PREVENT ARM (L)	F517-047 FD35T-12 FG114-20 FK22P-16 FC39S-33	
3-36 3-37 3-38 3-39 3-40	*5761837000 5761836700 *5761745600 *5761745500 5761792500	REEL BASE BLK POLYSLIDER POLYSLIDER	UG15S-11A F623-129 FJ111-17 UJ12V-11 F623-037	

3-41	*5761836500	WASHER, OIL SEAL	FJ141-11A
3-42	*5761836900	CHASSIS BASE BLK	F612-110
3-43	*5761769800	SCREW, PAN SW M2.6X4 ZN	FG114-15
3-44	5761858500	PINCH ROLLER (R)	FR20L-22
3-45	*5761836100	HEAD BASE	FC38N-D4
3-46	*5761836200	HEAD BASE SP	FK22L <b>-</b> 11A
3-47	*5761836000	3-HEAD SPACER	FD44N <b>-</b> 12
3-48	*5761767500	AZIMUTH SP	FK21U <b>-</b> 11
3-49	5761767900	HEAD, ERASE	FU192 <b>-</b> 11
3-50	*5761767400	SCREW, F LOCK	FG137 <b>-</b> 18
3-51	*5761859000	SCREW, PAN M2X8	FG140-18
3-52	*5761839400	POLYSLIDER, 2.1X0.25	FJ111-18
3-53	5761858100	HEAD, R/P H-2374	FU19K-31

#### **DISPLAY L PCB ASSY**

REF.NO.	PARTS NO.	DESCRIPTION	REF.NO.	PARTS NO.	DESCRIPTION
D601 <b>-</b> 611 FL1	*5210344200 *5801408200 5224012920	DISPLAY L PCB ASSY DISPLAY L PCB FL HOLDER (B) DIODE, IS2473 FL COUNTER, 5-BT-121GK		*5210340500 5800990100 *5783033008	MAIN PCB ASSY MAIN PCB HEAT SINK SCREW, BIND S-TITE M3X8 VR PLATE (CU)
PI3 PI4 PI5 Q601-605 R601	5334074000 5334073800 5232254820	CONNECTOR PLUG, 8P CONNECTOR PLUG, 8P CONNECTOR PLUG, 6P TR, DTA124ES R, ARRAY, RYLS-5J104	C180,181 D101-104 D110-116 J6 JA1	▲ 5224018820 5224012920 5334073700	C, ELECT 2200UF/25V M AU DIODE, IA3 DIODE, IS2473 CONNECTOR SOCKET, IOP PIN JACK, 4P
R602,603 S601-610 S611 U601 U602	5302108600 5300916400 5232253300	R, NONFLAMMABLE 1/2W 15 J SW, TACT SKHVBE SW, SLIDE 1-3 SSSUOI TR, ARRAY LB1240 REMOTE CONTROL MODULE	LI01,201 LI02,202 LI03,203 PI P2	5286041420 5286040520 5336245400	COIL, CHOKE 27.0MH COIL, CHOKE 27.0MH COIL, CHOKE 4.7MH CONNECTOR PLUG, 4P CONNECTOR PLUG, 4P
	R PCB ASSY		P21 P22 P4 P5 P8	5336249200 5336279800 5336249600 5336303300 5336279500	CONNECTOR PLUG, 2P (WHT) CONNECTOR PLUG, 8P CONNECTOR PLUG, 6P (WHT) CONNECTOR PLUG, 3P (WHT) CONNECTOR PLUG, 5P
REF.NO.	PARTS NO.	DESCRIPTION	Q102,202 Q103,203		TR, DTCI24ES TR, DTCI24ES
D612-614	*5210344300 *5801408100	DISPLAY R PCB ASSY DISPLAY R PCB FL HOLDER (A) DIODE, IS2473	Q104,204 Q105,205 Q106,206	5232255720 5232255720	TR, DTCI24ES TR, DTCI24ES TR, DTCI24ES TR, DTCI24ES
FL2		FL METER, BG-845GK		5230780920	TR, 2SC2603F TR, DTC124ES
P6 Q606-614 R30	5334074200 5232254820 5282022800	CONNECTOR PLUG, IOP TR, DTAI24ES VR, 5KB ISIUVR	Q112 Q113	5232255720 5232255720	TR, DTCI24ES TR, DTCI24ES
R605 R606	5242126100 5242125400	R, ARRAY RYLS-12J104 R, ARRAY RYLS-4J104		▲ 5231762800	TR, 2SDI450S/T TR, 2SDI913
R616 R621 S612	5242125300 5242125600 5302108600	R, ARRAY RYLS-3JI04 R, ARRAY RYLS-6JI04 SW, TACT SKHVBE	Q117 Q119 Q120		TR, 2SB1274R TR, DTA124ES TR, DTA124ES
S613 S614	5300055300 5300916900	SW, PUSH 2-2 SPEC SW, SLIDE 2-3	Q121,221 RI	5232255720 5282417800	TR, DTCI24ES VR, IOOKMN IS2UVR
U603	5220443400	IC, BA6800AS	RII ,21 RI2 ,22 RI3 ,23	5280021100 5280021100 5280021300	VR, SEMI-FIXED 4.7KB VR, SEMI-FIXED 4.7KB VR, SEMI-FIXED IOKB

#### MAIN PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
D612-614 FL2	*5200344300 *5210344300 *5801408100 5224012920 5347017800	DISPLAY R PCB ASSY DISPLAY R PCB FL HOLDER (A) DIODE, IS2473 FL METER, BG-845GK
P6 Q606 <b>-</b> 614 R30 R605 R606	5242126100	CONNECTOR PLUG, IOP TR, DTA124ES VR, 5KB ISIUVR R, ARRAY RYLS-12J104 R, ARRAY RYLS-4J104
R616 R621 S612 S613 S614	5242125300 5242125600 5302108600 5300055300 5300916900	R, ARRAY RYLS-3J104 R, ARRAY RYLS-6J104 SW, TACT SKHVBE SW, PUSH 2-2 SPEC SW, SLIDE 2-3
U603	5220443400	IC, BA6800AS

#### **OSC PCB ASSY**

REF.NO.	PARTS NO.	DESCRIPTION
L104 L105,205	*5200340700 *5210340700 5336281800 5286042900 5286041800	OSC PCB ASSY OSC PCB CONNECTOR SOCKET, 8P COIL, OSC COIL, STEP UP
L106 L107 P3 Q107 Q108 U107	5286031000 5286031000 5336245200 5230780920 5230780920 5220430400	COIL, CHOKE 220UH COIL, CHOKE 220UH CONNECTOR PLUG, 2P TR, 2SC2603F TR, 2SC2603F IC, UPC1297CA

R16 ,26	5280021100	VR, SEMI-FIXED 4.7KB
R18	5280021700	VR, SEMI-FIXED 47KB
R19	5280021100	VR, SEMI-FIXED 4.7KB
R2	5282418800	VR, 20KX2 IS2UVR
UI01	5220426900	IC, M5220P
UI02	5220444700	IC, CXAI330S
UI03	5220041100	IC, BU4066B
UI04	5220444700	IC, CXAI330S
UI05,205	5292810000	LOW PASS FILTER
UI06	5220418800	IC, M5218P
U108	5220440600	IC, NJM4565L
U111	5220425800	IC, M5230LA

#### CONTROL PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION	REF.NO.	PARTS NO.	DESCRIPTION
C506	5555590000 5800990100	CONTROL PCB ASSY CONTROL PCB EARTH PLATE A HEAT SINK C, ELECT 3300UF/25V M AU	J301 J8 R3	5336281500 5282417900	PHONE PCB 3P JACK, FJ333DAB-Z CONNECTOR SOCKET, 5P VR, 20KAX2 IS2UVR
CR501 D501 D502 D503 D505	5347017700 5224018820 5224574501 5224572201 ▲ 5224018820	OSC, EFO-GC4194A4 DIODE, IA3 DIODE, ZENER RD7.5EL3 DIODE, ZENER RD3.6EL2 DIODE, IA3	U330	5220418800	IC, M5218P
D506 D507 D508 D509 D510-513	5224012920 5224018820	DIODE, ZENER RD5.IEL2 DIODE, IS2473 DIODE, IA3 DIODE, ZENER RD33ELI DIODE, IA3	TRANS	PCB ASSY	
JI3 ,14		CONNECTOR SOCKET, 8P	REF.NO.	PARTS NO.	DESCRIPTION
J15 P12 P16 P17	5336303700 5336249500	CONNECTOR SOCKET, 6P CONNECTOR PLUG, 7P (WHT) CONNECTOR PLUG, 5P (WHT) CONNECTOR PLUG, 8P (WHT)		*5200344530	TRANS PCB ASSY [J] TRANS PCB ASSY [US,C] TRANS PCB ASSY [GE]
Q501 Q502 Q503	5231761300 5232255720 5232254820	TR, 2SD734F TR, DTCI24ES TR, DTAI24ES		*5200344540 *5200344550 *5200344560	TRANS PCB ASSY [E] TRANS PCB ASSY [UK] TRANS PCB ASSY [A]
Q504 Q505	5232255720 5230781120	TR, DTCI24ES TR, 2SCI740SLN		▲ 5350015600	TRANS PCB LAPPING TERMINAL,2P[E,UK, AC CORD [J]
Q506-511 Q513 Q514 Q515 Q516	5145085000 5230781120 5232255720	TR, DTAI24ES TR, 2SA934R TR, 2SCI740SLN TR, DTCI24ES TR, DTAI24ES		▲ 5128047000	AC CORD, BS [UK]
R501	5242123300	R, ARRAY RYLS-8J223 R NONEL AMMARIE METAL IW 47	C812	▲ 5350008300 ▲ 5267704000	AC CORD, SAA [A] SPARK KILLER 0.0047UF/250
R504 U501 U502 U503	5220824200	R,NONFLAMMABLE METAL IW 47 IC, UPD75004CW-074 IC, BA6219B IC, L78MR05	S801 S802 T1		SW, PUSH SDDLDI I-I Voltage Selector,FS908F[( POWER TRANSFORMER

#### PHONE PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
J301 J8 R3 U330	*5200340600 *5210340600 5330016600 5336281500 5282417900 5220418800	3P JACK, FJ333DAB-Z CONNECTOR SOCKET, 5P
TRANS F	PCB ASSY	
REF.NO.	PARTS NO.	DESCRIPTION



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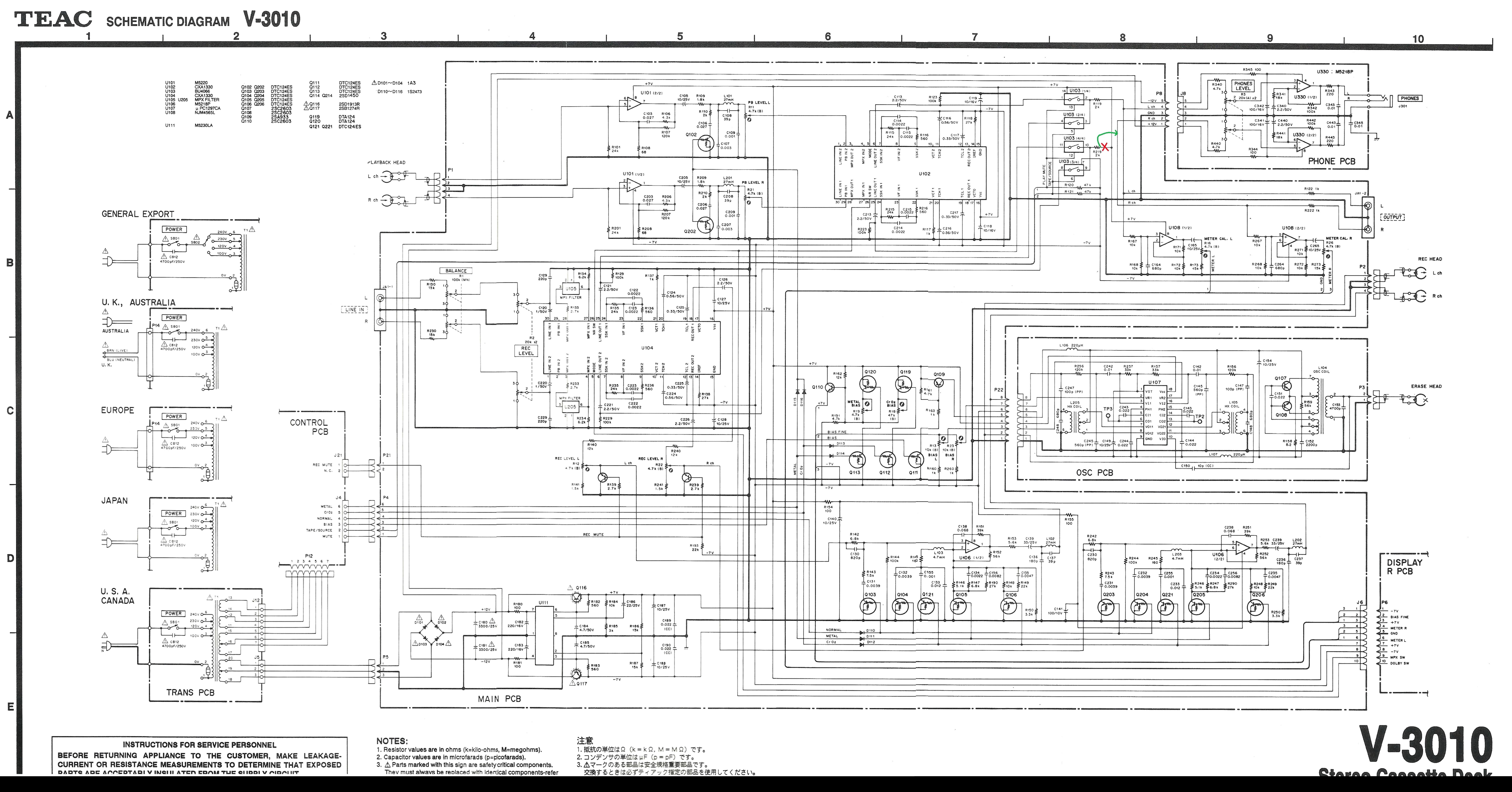
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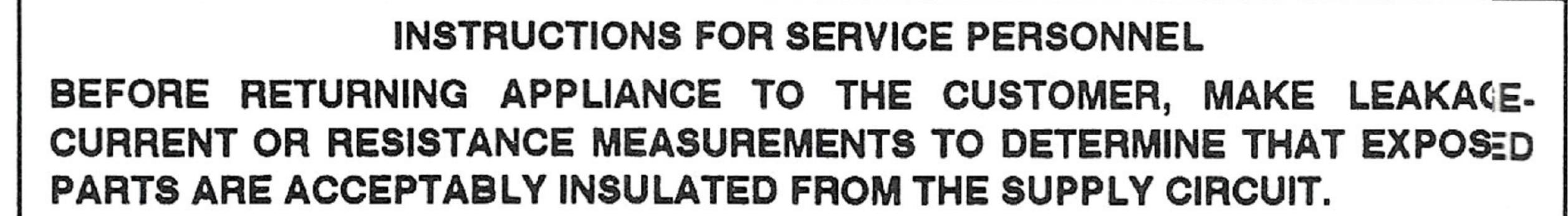
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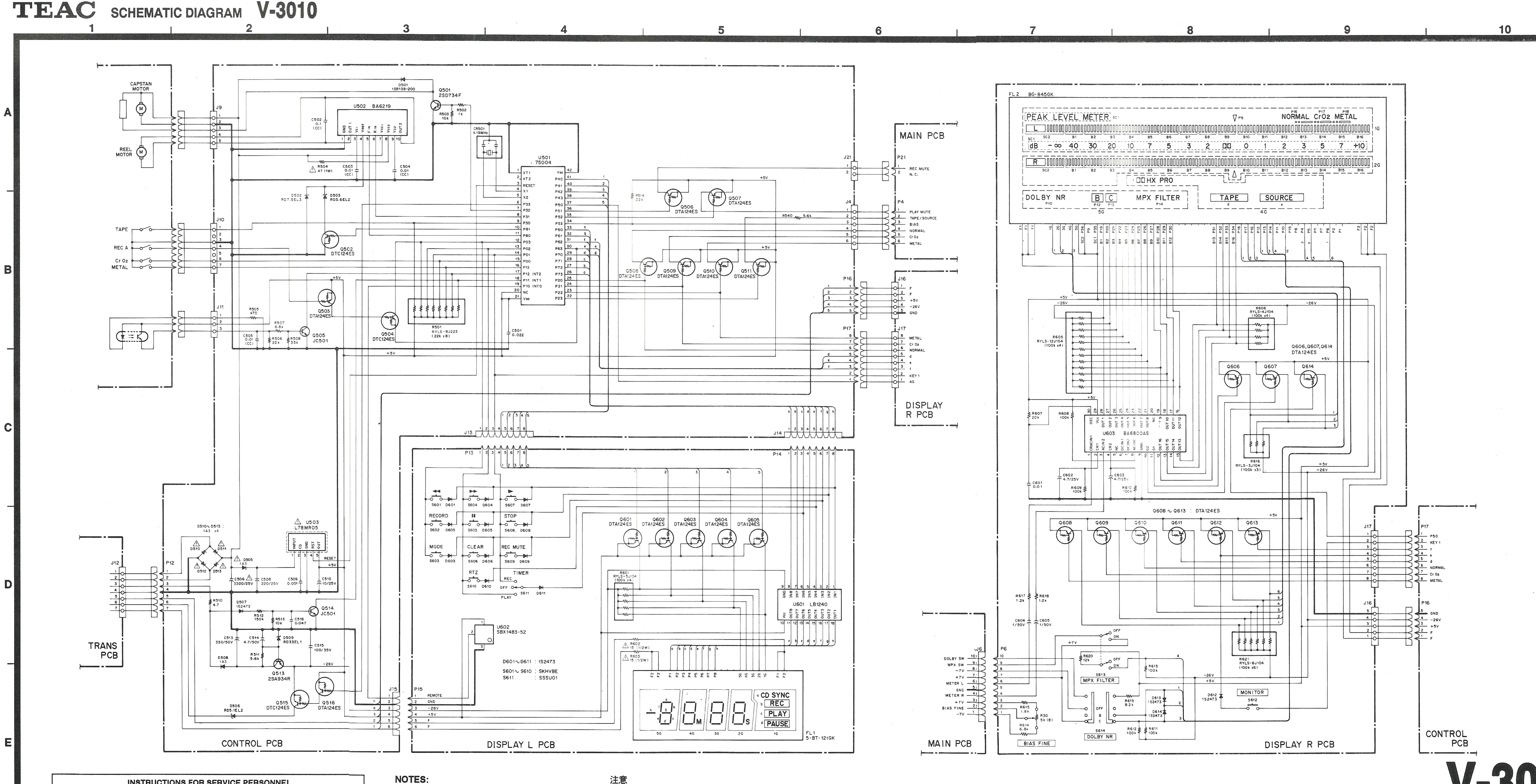
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- Resistor values are in ohms (k=kilo-ohms, M=megohms).
- Capacitor values are in microfarads (p=picofarads). 3. A Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

1.抵抗の単位は $\Omega$  (k = k  $\Omega$ , M = M  $\Omega$ ) です。

- 2. コンデンサの単位は µF (p = pF) です。
- 3. Δマークのある部品は安全規格重要部品です。 交換するときは必ずティアック指定の部品を使用してください。

