

TEAC®



SERVICE MANUAL

Z-6000

Master Cassette Deck

1 SPECIFICATIONS AND SERVICE DATA

仕様及びサービス・データ

Notes:

- Improvements may result in changes in specifications and service data.
- 0 dB is referenced to 0.775 V in this manual.

注

- 仕様およびサービス・データは改善のため、予告なく変更することがあります。
- 本マニュアルの0 dBは0.775Vを基準としています。

SPECIFICATIONS

Track system	4-track, 2-channel stereo
Heads	3: Erase, record and playback
Type of tape	Cassette tape, C-60 and C-90 (Philips type)
Tape speed	4.76 cm/s (1-7/8 ips)
Input (level and impedance)	
MIC:	Specified input level: -57 dB (1.09 mV)/10 kohms Minimum input level: -67 dB (346 μ V)
LINE IN:	Specified input level: -9 dB (275 mV)/50 kohms Minimum input level: -19 dB (86.9 mV)
Output (level and impedance)	
OUTPUT:	Specified output level: -5 dB (436 mV) 50 kohms or more
PHONES:	Specified output level: -5 dB (436 mV)/8 ohms
Equalization	
METAL:	3180 μ s + 70 μ s
CrO ₂ :	3180 μ s + 70 μ s
NORMAL:	3180 μ s + 120 μ s
Head configuration	
	1/2-track, 1-channel erase head
	1/4-track, 2-channel record and playback head
Motors	1 DC FG DD Servo Motor (for Capstan Drive) 2 Coreless DC DD motors (for Reel Drive) 1 DC motor (for Ancillary Control)
Bias frequency	100 kHz
Operation position	Horizontal
Power requirements	100/120/220/240 V AC, 50/60 Hz, 42 W (General Export Models) 120 V AC, 60 Hz, 42 W (U.S.A./Canada) 220 V AC, 50 Hz, 42 W (Europe) 240 V AC, 50 Hz, 42 W (U.K./Australia)
Dimensions	See Fig. 1-1 on page 3.
Weight	16.4 kg (36-2/16 lbs) net

SERVICE DATA

MECHANICAL

Tape speed deviation	3,000 Hz $\pm$ 45 Hz
Tape speed drift	30 Hz
Wow and flutter	
Playback:	0.03% (WRMS)
Record/playback:	0.15% (RMS)
Pinch roller pressure	
Right:	310 to 380 g (10.9 to 13.4 oz)
Left:	135 to 165 g (4.7 to 5.8 oz)
Reel Torque	
Take-up:	35 to 50 g-cm (0.48 to 0.70 oz-inch)
Supply:	9 to 11 g-cm (0.12 to 0.16 oz-inch)
F.F./REW:	90 g-cm or more
Fast winding time	90 seconds for MTT-501 (C-60)

ELECTRICAL

Frequency response See Fig. 6-11 to 6-14

Signal-to-Noise Ratio (Overall)

60 dB (3% THD Level, Weighted, Metal Tape);
72 dB at 5 kHz (Dolby B NR)
82 dB at 1 kHz (Dolby C NR)
92 dB at 1 kHz (dbx)

Erase efficiency 85 dB min. at 1 kHz (measured with input 10 dB higher than the specified input level)

Channel separation 35 dB min. at 1 kHz

Adjacent track crosstalk 45 dB min. at 125 Hz

Total harmonic distortion

- 2.0% or less with METAL and CrO₂ tapes
- 3.5% or less with NORMAL tape

- Dolby Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- dbx Noise Reduction system made under license from dbx, Incorporated. The name "dbx" and the dbx symbol are trademarks of dbx, Incorporated.

CAUTION

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.

- ドルビー・ノイズリダクションシステムは、ドルビー研究所からの実権に基づき製造されています。
- ドルビー及び  は、ドルビー研究所の登録商標です。
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- dbx システムは dbx インコーポレーテッドの実権に基づいて製造されています。

注意

A印は安全重要部品です。交換する時は必ずディマーク指定の部品を使用してください。

2 REMOVAL OF EXTERNAL COMPONENTS

外装部品の外し方

Disassemble in number-order

番号順に外して下さい

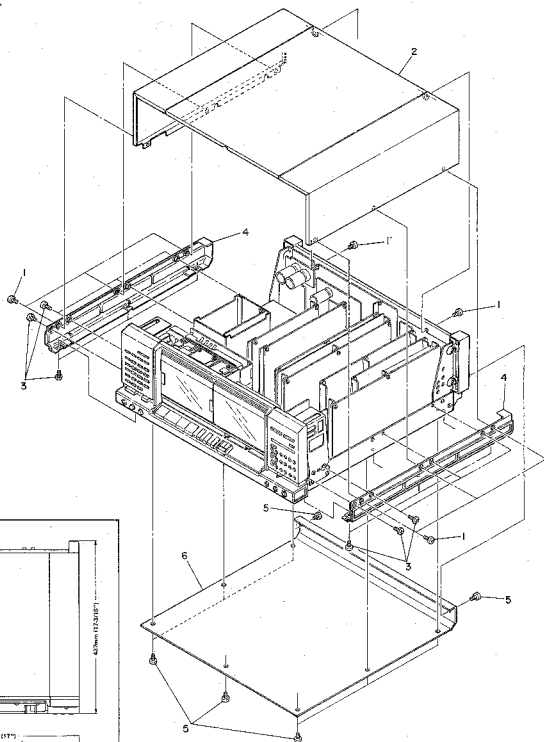
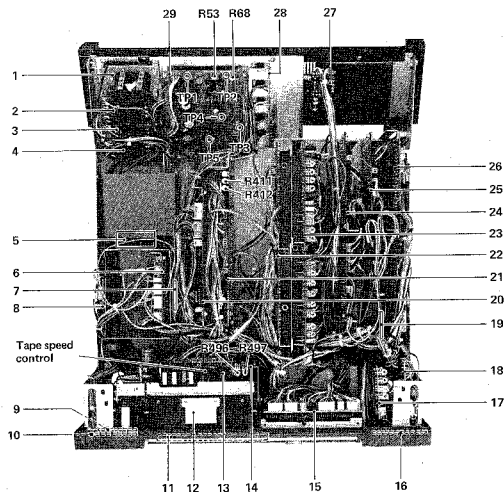


Fig. 2-1

Fig. 1-1

3 PARTS LOCATION

部品配置図



1	CONDENSER PCB	15	METER PCB
2	DIODE PCB (1)	16	MANUAL PCB
3	DIODE PCB (2)	17	OSC PCB
4	DIODE PCB (3)	18	SW PCB (D)
5	FUSE PCB* or VOLTAGE SELECTOR**	19	MANUAL BIAS PCB
6	MIC AMPL PCB	20	AMPL CONTROL PCB
7	RESET PCB	21	SYSTEM CONTROL PCB
8	AUTO STOP PCB	22	COUNTER PCB
9	SW PCB (B)	23	PLAYBACK AMPL PCB
10	SW PCB (E)	24	DOLBY PCB
11	CONTROL SW PCB	25	DBX PCB
12	MECHANISM PCB (3)	26	REC AMPL PCB
13	DC capstan motor assy	27	IN/OUTPUT PCB
14	MECHANISM PCB (1)	28	TRANSISTOR PCB
		29	POWER SUPPLY PCB

* FUSE PCB: All except JAPAN and GENERAL EXPORT

** Voltage selector: GENERAL EXPORT only

Fig. 3-1 Top view (上面図)

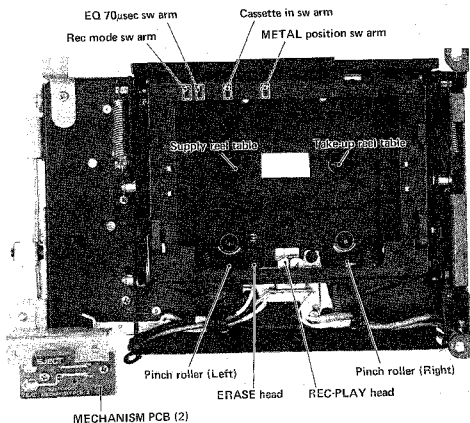


Fig. 3-2 Transport front view (トランスポート前面図)

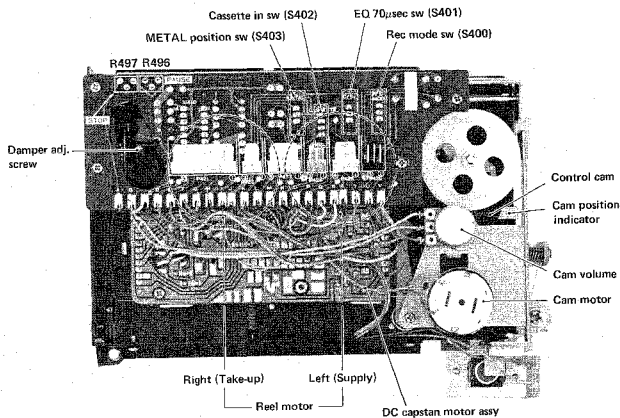


Fig. 3-3 Transport rear view (トランスポート後面図)

4 VOLTAGE ADJUSTMENTS AND CHECKS

電源電圧の調整と確認

4-1 VOLTAGE CONVERSION
(GENERAL EXPORT MODELS ONLY)

1. Always disconnect the power line cord before making these adjustments.
2. Locate the voltage selector above the transformer.
3. Using a regular screwdriver, turn the selector until the numerals corresponding to the voltage requirements of your area appear.

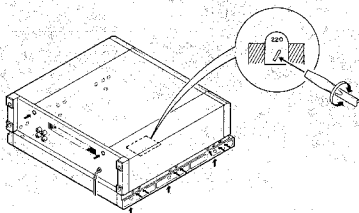


Fig. 4-1 Voltage conversion (電源電圧切替)

4-2 DC VOLTAGE ADJUSTMENTS AND CHECKS

1. See p. 4 fig. 3-1 for adjustment and check points.
2. Adjust R53 so that the voltage of the POWER SUPPLY PCB TP.1 becomes +5.8 V.
3. Adjust R68 for a TP.2 voltage of +25 V.
4. Make sure TP.3 voltage is $+15\text{ V} \pm 0.75\text{ V}$, TP.4 voltage $-15\text{ V} \pm 0.75\text{ V}$, and TP.5 voltage $+13.5\text{ V} \pm 0.67\text{ V}$.

4-2 DC電圧とチェック

1. 調整及びチェック・ポイントは4ページの図3-1を参照して下さい。
2. POWER SUPPLY PCBのTP.1の電圧が+5.8VとなるようR53を調整する。
3. TP.2の電圧が+25VとなるようR68を調整する。
4. TP.3の電圧が $+15\text{ V} \pm 0.75\text{ V}$ 、TP.4の電圧が $-15\text{ V} \pm 0.75\text{ V}$ 、TP.5の電圧が $+13.5 \pm 0.67\text{ V}$ であることを確認する。

5 MECHANICAL ADJUSTMENTS AND CHECKS

機構部の調整と確認

5-1 CASSETTE HOLDER ADJUSTMENT

1. With a cassette inserted, make sure that there is a clearance A of 0.9 to 1.3 mm between the cassette and the cassette holder.
2. If the clearance A is not within the 0.5 - 1.3 mm range, adjust it with screw B. (Fig. 5-2 shows the upper left part of the transport as seen from behind. There is a similar holder adj. screw in the upper right part.)
3. With a cassette inserted make sure that the cassette holder closes properly no matter where it is pressed on the top.

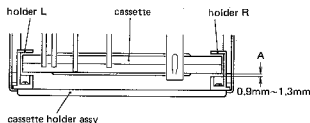
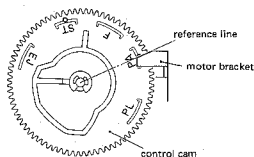


Fig. 5-1 Holder top view (ホルダー上面図)

5-2 ADJUSTMENT OF CONTROL CAM POSITION

1. Insert an empty cassette (or push in the cassette-in switch with a finger) and place the deck in PAUSE mode.
2. Adjust R496 (MECHANISM PCB (1)) so that the center PA hole of the control cam aligns with the reel motor mounting plate reference line.
3. Next, rotate the cam clockwise and counterclockwise and adjust R496 so that the distances between the center PA hole and both beginning points of cam motor vibration are equal.
4. Place the deck in STOP mode and adjust R497 as explained above for R496, this time referring to the center ST hole.



5-1 カセット・ホルダの調整

1. カセット・ハーフを装着した時、ハーフとカセット・ホルダとのスキ間Aが0.9mm~1.3mmの範囲に入っていることを確認する。
2. A部のスキ間が上記の範囲外の場合は、スキ間が0.9mm~1.3mmになるようネジBで調整する。
(図5-2はトランスポート左上部を背面から見た図です。右上部にも同様の調整ネジがあります)。
3. カセットを装着する時、カセット・ホルダ上部のどの部分を押しても確実にカセットが装着できること。

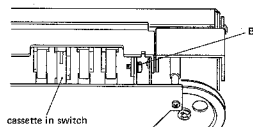


Fig. 5-2 Holder adj. screw (ホルダー調整ネジ)

5-2 コントロール・カムの位置調整

1. テープのない空カセットを装着 (カセット・イン・スイッチを手でオンしても可) し、PAUSE状態にする。
2. コントロール・カムのPA範囲の中心穴が、リール・モータ取付板の基準線に一致するようR496 (MECHANISM PCB (1)) を調整する。(図3-3)
3. 次に手でカムを正転・逆転させ、カム・モータの振動が始まる点がいずれもカムのPA範囲の中心穴から等間隔になるようR496を微調整する。(図3-3)
4. デッキをSTOP状態にし、カムのST範囲についてR497で上記と同様に調整する。

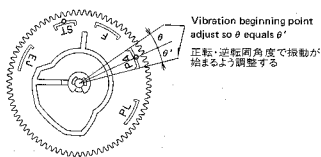


Fig. 5-3 Control cam adj. (コントロール・カム調整)

5-3 PINCH ROLLER HEIGHT ADJUSTMENT

5-3-1 PINCH ROLLER PLAY

1. Make sure thrust play of the left and right pinch rollers in STOP mode is 0.1 – 0.2 mm.
2. If not, adjust screws E and G for a play of 0.1 – 0.2 mm.

5-3-2 HEIGHT ADJUSTMENT OF THE RIGHT PINCH ROLLER TAPE GUIDE

1. Insert head check jig A (5736006600) and place the deck in PLAY mode.
2. Adjust nut F so that head check jig B (5736006700) fits exactly into the right pinch roller guide.

Note: Hereafter, do not move the tape guide more than ± 0.1 mm.

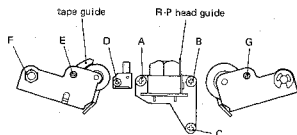


Fig. 5-4

5-4 ERASE HEAD POSITION CHECK AND ADJ.

1. Make sure the erase head is vertical to the cassette.
2. If not, adjust screw D (shown in fig. 5-4) so that the head comes within the adj. area (fig. 5-6).

5-5 REC & PLAY HEAD ADJUSTMENT

5-5-1 ADJUSTMENT OF REC & PLAY HEAD POSITION

1. Place the deck in PLAY mode. Make sure head check jig B touches the surface of the REC & PLAY head when the other end of the jig is positioned between the jig A line markers (fig. 5-7).

5-5-2 REC & PLAY HEAD HEIGHT ADJUSTMENT

1. Place the deck in PLAY mode. Adjust screw A (fig. 5-4) so that head check jig B is aligned with the REC & PLAY head guide.
2. Adjust screws B so that the head is in a horizontal position. (Take care not to move screw C.)

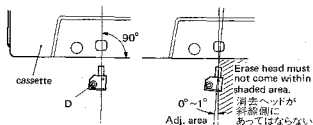


Fig. 5-6

5-3 ピンチ・ローラの高さ調整

5-3-1 ピンチ・ローラのカタ

1. STOP状態で左右のピンチ・ローラのスラスト・カタは各0.1mm~0.2mmであることを確認する。
2. もし上記の範囲外の時は、ネジ及びREGで0.1mm~0.2mmになるよう調整する。

5-3-2 左ピンチ・ローラのテープ・ガイド高さ調整

1. 高さヘッド治具(A) (品番5736006600)を装着し、PLAY状態にする。
 2. 左ピンチ・ローラのテープ・ガイドにヘッド治具(B) (品番5736006700)が完全に入るようナットFを調整する。
- 注意 この後テープ・ガイドは ± 0.1 mm以上動かさないこと

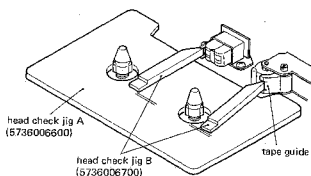


Fig. 5-5

5-4 消去ヘッド取付位置の確認と調整

1. 消去ヘッドはカセットに対し垂直になっていること。
2. もし垂直でない時は図5-4に示すネジDで図5-6の範囲内に入るよう調整する。

5-5 録・再ヘッドの調整

5-5-1 録・再ヘッドの位置確認

1. PLAY状態で、ヘッド治具(B)を録・再ヘッドの先端に当てたとき、ヘッド治具(B)先端が高さヘッド治具(A)の基準範囲内にあることを確認する。(Fig. 5-7)

5-5-2 録・再ヘッドの高さ調整

1. PLAY状態にし、ヘッド治具(B)を録・再ヘッド・ガイドに一致するよう図5-4のネジAを調整する。(図5-5参照)
2. ヘッドが水平になるようネジBを調整する。(ネジCは動かさないこと)。

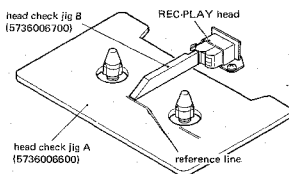


Fig. 5-7

5-6 PINCH ROLLER PRESSURE MEASUREMENT

- With the cassette holder shut and no tape loaded, put the deck in the play mode after pushing the cassette-in switch sensor arm upwards and holding it.
- Hook a spring scale on the pinch roller assembly as shown in the illustration.
- Pull the scale downwards until there is sufficient force to separate the pinch roller from the capstan shaft.
- Ease pressure until the pinch roller makes just enough contact with the capstan shaft so that the pinch roller just begins to turn. At this point, note the reading on the scale.

Right: 310 g to 380 g

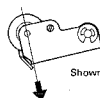
Left: 135 g to 165 g

5-6 ピンチ・ローラ圧着力確認

- 戻し法による測定値

右: 310 g ~ 380 g

左: 135 g ~ 165 g



Shown the right pinch roller.

Fig. 5-8

5-7 REEL TORQUE ADJUSTMENT

- 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 values:
- If not, adjust the semi-variable resistor on the SYSTEM CONTROL PCB to obtain.

5-7 リール・トルクの調整

- カセット型トルク・メータによる測定値が下表の範囲内であることを確認する。
- 範囲外の場合はSYSTEM CONTROL PCBの半固定抵抗(図3-1参照)を調整する。

	Torque	Adj.
Take-up	35~50g・cm (0.48 to 0.70 oz-inch)	R412
Supply	9~11g・cm (0.12 to 0.16 oz-inch)	R411
F.F./REW	90g・cm (1.2 oz-inch) or more	—

	トルク	調整箇所
テイクアップ・トルク	35~50 g・cm	R412
バックテンション・トルク	9~11 g・cm	R411
早送りトルク	90 g・cm以上	—

5-8 TAPE RUNNING ALIGNMENT

The following adjustments and checks should be made with back-tension torque under 4 g-cm.

- Play MTT-901 and MTT-902. Make sure that the tape does not curl at the tape guide and REC & PLAY head guide.
- If the tape curls at the left pinch roller tape guide, adjust REC & PLAY head screw B (fig. 5-4) within 3/4 of a turn. When curling has disappeared, adjust screw A in the same manner to maintain the horizontal position of the head.
- Play MTT-902 from the very beginning, making sure that the joint between leader tape and magnetic tape does not curl at any guide. If it curls at top of the left tape guide, tighten screw B by up to 1/8 of a turn. If it curls at the bottom, loosen screw B by up to 1/8 of a turn. After these adjustments, rewind the tape to the beginning once more and play it, checking for curling at the tape guides. Then set back tension to 8 g-cm and play a Maxell XL II C-90 from the very beginning. Make sure the tape does not curl or jump out at the tape guide. After these adjustments and checks, reset back tension to 9 ~ 11 g-cm.

5-8 テープ走行調整

以下の調整・確認はバックテンション・トルクを4 g・cm以下にして行う。

- MTT-901及びMTT-902をPLAYさせ、テープ・ガイド及び録・再ヘッド・ガイド部でテープがカールしないことを確認する。
左ピンチ・ローラのテープ・ガイドでテープがカールする場合は、録・再ヘッドのBネジ(図5-4参照)を3/4回転以内の範囲で調整する。カールが消失したらAネジを同様に調整してヘッドの水平を保つ。
- MTT-902を巻始めの位置からPLAYし、リーダー・テープと磁気テープの離れ目が各ガイドでカールしないかを確認する。このとき左テープ・ガイドの上でカール: Bネジを1/8回転の範囲で締め込む。
下でカール: Bネジを1/8回転の範囲で緩める。
- 調整後再度巻始めの位置からPLAYし、各ガイドでのカールの有無を確認する。

バックテンションを8 g・cmに設定し、Maxell XLII C-90を巻始めからPLAYして、テープがテープ・ガイドでカールしたり外れたりしないことを確認する。

調整・確認後バックテンションを9 ~ 11 g・cmの範囲内に戻す。

5-9 TAPE SPEED ADJUSTMENT

1. Connect a frequency counter to the deck as shown in Fig. 5-9.
2. Play a tape for more than five minutes to warm up the deck, then load a TEAC MTT-111 test tape containing a 3000-Hz test tone and play the test tape.
3. While the tape is playing, use a non-metallic or insulated screwdriver and adjust the control on the DC capstan motor assy (Refer to Fig. 3-1) for a reading of 2995 to 3005 Hz on the frequency counter.
4. Play the tape at the beginning and at the end, and check that the speed deviation is within the prescribed limits by observing that the reading on the frequency counter never deviates more than ± 45 Hz from 3000 Hz, nor drifts more than 30 Hz at any given time.

5-9 テープ速度の調整

1. MTT-111を使用して、テープ速度が3000Hz $\pm$ 45Hzの範囲内であることを確認する。
2. 範囲外のときはDC capstan motor assyのPCB上の半固定抵抗(図3-1参照)で3000Hz $\pm$ 5Hzに調整する。

5-10 WOW AND FLUTTER

Note: These measurements should be made at the beginning, middle and the end of the tape.

1) PLAYBACK

1. Connect a wow-and-flutter meter to the deck as shown in Fig. 5-9.
2. Load and play a TEAC MIT-111 test tape.
3. Check that the reading on the wow-and-flutter meter is within 0.03% (WRMS).

2) RECORD/PLAYBACK

4. Load a blank TEAC MTT-502 test tape and record a 3000-Hz signal.
5. Rewind the tape to the beginning of the recorded section, and play it.
6. The wow-and-flutter should not be more than 0.15% (RMS).

5-10 ワウ・フラッタの確認

再生法	WRMS	0.03%以下	MTT-111使用
録再法	RMS	0.15%以下	MTT-502使用

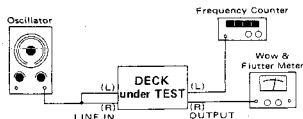


Fig. 5-9

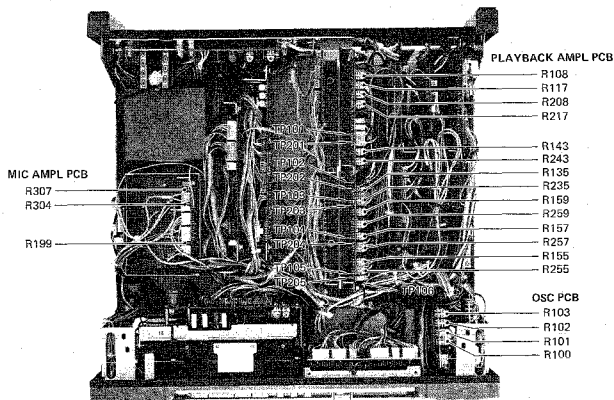
5-11 DAMPER ADJUSTMENT

1. Adjust the damper adj. screw (see fig. 3-3) so that it takes the damper 0.5 - 1 sec. to open the cassette compartment. During this adjustment, the cassette cover should be in place, but no cassette should be loaded.

5-11 ダンパーの調整

ダンパー調整ネジ(図3-3参照)でダンパーが開くまでの時間を0.5-1秒に調整する。

調整時カセット・カバーは装着状態とし、カセット・ハーフは装着しない。

6-1 ADJUSTMENT POINTS

PLAYBACK AMPL PCB

Lch/Rch		
R108/R208	Playback equalization	再生イコライザ
R117/R217	Playback level	再生レベル
R135/R235	Playback dolby level	再生ドルビー・レベル
R143/R243	Meter level (TAPE)	メータ・レベル(TAPE)
R155/R255	Meter level (CAL)	メータ・レベル(CAL)
R157/R257	Source level (DOLBY)	ソース・レベル(DOLBY)
R159/R259	Source level (dbx)	ソース・レベル(dbx)

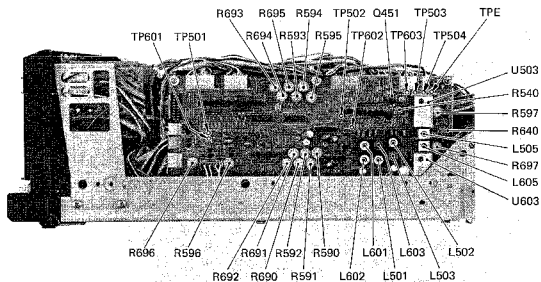
MIC AMPL PCB

Lch/Rch		
R199/-	Master balance (Lch only)	マスター・バランス(Lchのみ)
R304/-	Output balance (Lch only)	アウトプット・バランス(Lchのみ)
R307/-	Phones balance (Lch only)	ホーン・バランス(Lchのみ)

OSC PCB

OSC Freq.		(14kHz)	発振周波数		(14kHz)
R100	OSC freq.	(315Hz)	歪み	(315Hz)	
R101	Distortion		デューティ		
R102	Duty		レベル		
R103	Level				

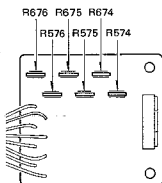
Fig. 6-1



REC AMPL PCB

Lch/Rch				
U503/U603	Bias ampl	バイアス・アンプ		
R590/R690	Rec level	NORMAL	録音レベル	NORMAL
R591/R691	Rec level	CrO ₂	録音レベル	CrO ₂
R592/R692	Rec level	METAL	録音レベル	METAL
R593/R693	Bias	NORMAL	バイアス	NORMAL
R594/R694	Bias	CrO ₂	バイアス	CrO ₂
R595/R695	Bias	METAL	バイアス	METAL
R596/R696	Meter cal	Manual cal	メータ校正	Manual cal
R597/R697	Bias	METAL	バイアス	METAL
L501/L601	Rec EQ	METAL	録音イコライザ	METAL
L502/L602	Rec EQ	CrO ₂	録音イコライザ	CrO ₂
L503/L603	Rec EQ	NORMAL	録音イコライザ	NORMAL
L505/L605	Bias trap	バイアス・トラップ		

Fig. 6-2 REC AMPL PCB



BIAS (マニュアル・バイアス補助)

Lch/Rch	
R574/R674	NORMAL
R575/R675	CrO ₂
R576/R676	METAL

Fig. 6-3 MANUAL BIAS PCB

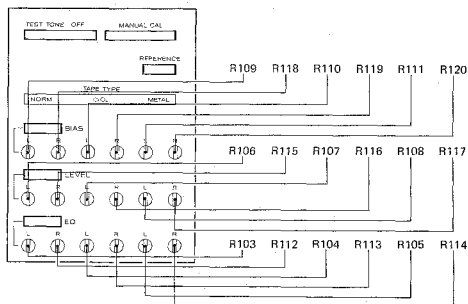
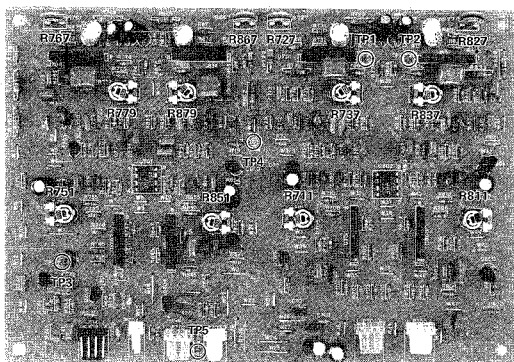


Fig. 6-4 MANUAL PCB front view
(マニュアルPCB正面図)



	Lch/Rch		
ENCODER (エンコード)	R711/R811	VCA symmetry	VCA シンメトリー
	R727/R827	Nominal level	基準レベル
	R737/R837	RMS symmetry	RMS シンメトリー
DECODER (デコード)	R751/R851	VCA symmetry	VCA シンメトリー
	R767/R867	Nominal level	基準レベル
	R777/R877	RMS symmetry	RMS シンメトリー

Fig. 6-5 DBX PCB

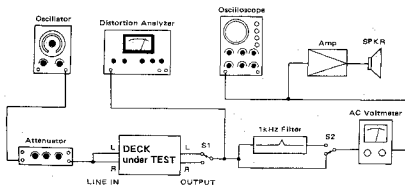


Fig. 6-6 Basic test setup (基本測定接続図)

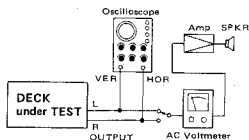


Fig. 6-7 Test setup for azimuth check (位相測定接続図)

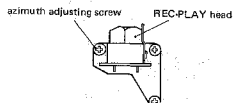


Fig. 6-8 Azimuth screw location (位相調整ネジ)

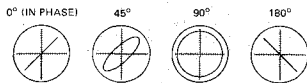


Fig. 6-9 Confirming phase relationship (位相)

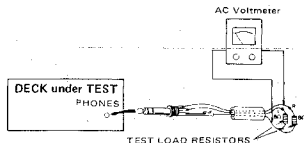


Fig. 6-10 Test setup for PHONES check (ホン出力測定接続図)

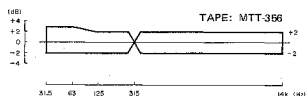


Fig. 6-11 Playback frequency response (再生周波数特性)

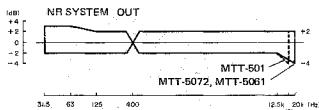


Fig. 6-12 Overall frequency response (NR OUT) (録再周波数特性)

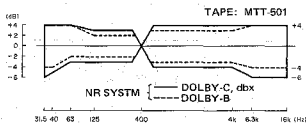


Fig. 6-13 Overall frequency response (NR IN, NORMAL) (録再周波数特性)

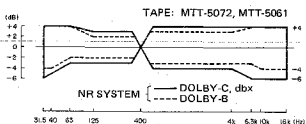


Fig. 6-14 Overall frequency response (NR IN, CrO₂, METAL) (録再周波数特性)

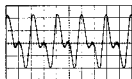


Fig. 6-15 RMS symmetry adjustment (incorrect)
(RMSシンメトリ調整・不良)

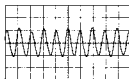


Fig. 6-16 RMS symmetry adjustment (correct)
(RMSシンメトリ調整・良)

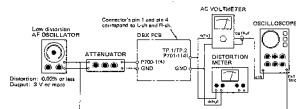


Fig. 6-17 Encoder adjustment setup (エンコーダ調整時の接続)

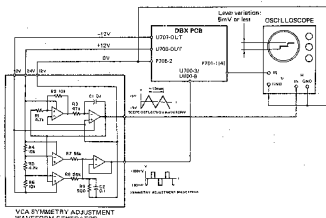


Fig. 6-18 VCA symmetry adjustment setup (encoder) (VCAシンメトリ調整時の接続(エンコーダ))

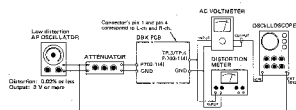


Fig. 6-19 Decoder adjustment setup (デコーダ調整時の接続)

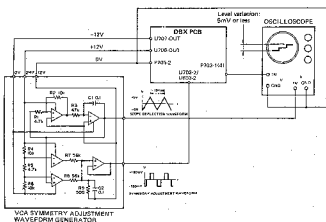


Fig. 6-20 VCA symmetry adjustment setup (decoder) (VCAシンメトリ調整時の接続(デコーダ))

6 ELECTRICAL CHECKS AND ADJUSTMENTS

アンプ部の確認と調整

PRECAUTIONS

- Since this deck has an automatic tape selector, be sure to use test tapes that have tape position detecting holes. When using test tapes without such holes, please perform measurements after having fixed EQ70 μ sec detection switch (CrO₂, METAL) and the METAL position switch on the MECHANISM PCB in the necessary position with adhesive tape etc.
- Before performing adjustments and checks, clean and demagnetize the entire tape path.
- Make sure the deck is properly set for the voltage in your locality.
- In general, adjustments and checks are made in the order of L-ch then R-ch. Double REF. Nos. and test point designations indicate L-ch/R-ch. (Example: R101/R201)
- 0 dB is referenced to 0.775 V. If an AC voltmeter that references 0 dB to 1 V is used, appropriate compensation should be made.
- The AC voltmeter used in the procedures must have an input impedance of 1M Ω or more.
- Note the "deck settings" at the top of each chart. The settings apply to all checks for a specific chart unless explicitly stated otherwise.

6-2 PLAYBACK PERFORMANCE

Deck settings:

MONITOR sw : TAPE
NR SYSTEM sw : OUT

TEAC test tapes:

MTT-150: For Dolby level calibration
MTT-356: For playback frequency response check for METAL
MTT-501: For S/N check with NORMAL
MTT-5061: For S/N check with CrO₂

Adjustment and test points without special mention refer to PLAYBACK AMPL PCB

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
1. REC-PLAY head azimuth	Connection: Fig. 6-7	MTT-150	Check	OUTPUT: Phase: within 45°	Refer to Fig. 6-9
		MTT-356 (12.5 kHz)	Azimuth screw of R.P. head (Fig. 6-8)	OUTPUT: Max. output at L-& R-ch's (on VTVM)	
2. Max. output level	Same as above	MTT-150	R117/R217	TP.101/TP201 580 mV (-2.5 dB)	
	NR SYSTEM: DOB		R135/R235	TP.101/TP201 580 mV (-2.5 dB)	OUTPUT: +1 dB $\pm$ 1 dB
3. Specified output level	Connection: Fig. 6-7 NR SYSTEM: OUT	MTT-150	OUTPUT cont.	OUTPUT R: -5 dB (436 mV)	Prior to L-ch
			R304 (on MIC AMPL. PCB)	OUTPUT L: -5 dB $\pm$ 0.5 dB (308 mV to 615 mV)	
IMPORTANT: Do not touch OUTPUT cont. during later checks.					
4. PEAK PROGRAM LEVEL METER	Same as above MONITOR: CAL	MTT-150	R155/R255	PEAK PROGRAM LEVEL METER: 0 dB	
	MONITOR: TAPE		R143/R243		
5. Frequency response	Same as above MONITOR: CAL		R108/R208	Nearly equal output level ($\pm$ 1.5 dB) at both frequencies	Refer to Fig. 6-11
	EQ 70 μ sec detector switch: 120 μ sec (NORMAL)	MTT-356	Check	OUTPUT: At 10 kHz should be approx. 4.5dB higher than measured in above step.	
6. Signal-to-noise ratio	Same as above STOP mode Short circuit between TP.106 & GND to release playback muting	MTT-501	Check	OUTPUT: S/N 48 dB min (NORMAL)	
		MTT-5062	Check	OUTPUT: S/N 52 dB min (CrO ₂)	

6-1 準備

1. 本機はテープ・セレクト自動検出機構になっていますので、テスト・テープは必ずテープ・ポジション検出孔のあるものを使用して下さい。もし検出孔のないテスト・テープを使用するときは、メカニズムPCB(1)のEQ70 μ sec検出スイッチ(CrO₂, METAL)およびMETAL ポジション・スイッチを接着テープ等で各の位置に固定して測定してください。
2. アンプ部の調整の前に、消去ヘッド、録・再ヘッド、テープ走行部分それぞれを充分消磁し、クリーナ液で清掃して下さい。
3. 特に指示の有る場合を除き、Lch、Rchの順に調整を行なって下さい。
4. レベル計は入力インピーダンス1M Ω 以上のものを使用して下さい。
5. ϕ dB=0.775V
6. 調整に際して各スイッチを次のように設定して下さい。

MEMORY	OFF
TAPE LENGTH	任意 (C-60)
MONITOR	TAPE
NR SYSTEM	OUT
INPUT	LINE
TIMER	OUT
PITCH CONT	OFF
TEST TONE OFF	
REFERENCE	

表 1

6-2 再生系

特記なき調整箇所及びTPはPLAYBACK AMPL PCB

調整項目	準備・設定	入力信号	調整箇所	測定箇所・調整値	備考
1. ヘッド・アジマス調整	設定 表1参照	MTT-150	チェック	位相 45°以内	D46-8参照
	OUTPUTつまみ: MAX	MTT-356 (12.5kHz区分)	ヘッドのアジマス調整ネジ	L, P共最大出力 (10kHz(2相90°以内))	D46-8参照
2. 最大出力レベル	同上	MTT-150	R117/R217	TP.101/TP.201 580mV(-2.5dB)	
	NR SYSTEM: ☒ B	MTT-150	R135/R235	TP.101/TP.201 580mV(-2.5dB)	OUTPUT +1dB $\pm$ 1dB
3. 規定出力レベル	同上	MTT-150	OUTPUTつまみ	OUTPUT R: -5dB	Rch優先
	NR SYSTEM: OUT		R304 [MIC AMPL]	OUTPUT L: -5dB $\pm$ 0.5dB	
4. メータ・レベル・セット	MONITOR: CAL	MTT-150	R155/R255	ピーク・プログラム・レベル・メータ: 0dB点灯	
	MONITOR: TAPE		R143/R243		
5. 再生周波数特性	MONITOR: CAL	MTT-356	R108/R208	315Hzと10kHzの出力がほぼ等しく($\pm$ 1.5dB)なるよう調整 規格: D46-11参照	
	EQ 70 μ sec検出スイッチ: 120 μ sec (NORMAL)		チェック	10kHzの出力が約4.5dB高くなること	
6. 再生S/N	同上	MTT-501	チェック	S/N 48dB以上	P.B.AMPL PCBのTP.106をGNDに接続して再生ノイズを解除する
	モード: STOP	MTT-5072	チェック	S/N 52dB以上	

6-3 MONITOR PERFORMANCE

Deck setting:
MONITOR sw : SOURCE

Adjustment and test points without special mention refer to PLAYBACK AMPL PCB

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
7. Min. LINE input level	INPUT sw: LINE REC PRESET LEVEL cont: Max MASTER cont: MAX	LINE IN: 400 Hz/-19dB (86.9 mV)	R159/R259	TP.103/TP.203 580 mV (-2.5 dB)	
	REC/PLAY mode NR SYSTEM: ☒ B		R157/R257	TP.105/TP.205 387.5 mV (-6 dB)	
8. Min. MIC input level	INPUT sw: MIC NR SYSTEM: OUT	MIC: 400 Hz/-67 dB (347 μ V)	Check	OUTPUT: -5 dB $\pm$ 3 dB (308 mV to 615 mV)	
9. Specified LINE input level	INPUT sw: LINE	LINE IN: 400 Hz/-9 dB (275 mV)	REC PRESET LEVEL cont.	OUTPUT: 0 dB (0.775 V)	
			MASTER cont.	OUTPUT R: -5 dB (436 mV)	Prior to R-ch
			R119 (on MIC AMPL, PCB)	OUTPUT L: -5 dB $\pm$ 0.5 dB (411 mV to 461mV)	TP.103/TP.203 580 mV $\pm$ 20 mV
	IMPORTANT: Do not touch REC PRESET LEVEL cont. and MASTER cont. during later checks.				
10. PEAK PRO- GRAM LEVEL METER	INPUT sw: LINE	LINE IN: 400 Hz/-9 dB (275 mV)	Check	PEAK PROGRAM LEVEL METER: 0 dB	
11. PHONES output level	INPUT sw: LINE Connection: Fig. 6-10 PHONES cont: MAX	LINE IN: 400 Hz/-9 dB (275 mV)	Check	PHONES: +1 dB $\pm$ 2 dB (690 mV to 869 mV)	
			PHONES cont.	PHONES R: -5 dB (436 mV)	8 Ω load
			R307 (on MIC AMPL, PCB)	PHONES L: -5 dB $\pm$ 1.5 dB (387 mV to 518 mV)	

6-4 RECORDING PERFORMANCE

Deck settings:

MONITOR sw: TAPE
NR SYSTEM sw: OUT
OUTPUT cont: Specified position (item 3)
REC PRESET LEVEL cont: Specified position (item 9)
MASTER cont: Specified position (item 9)
INPUT sw: LINE

TEAC test tapes:

MTT-5072: For METAL record test
MTT-5061: For CrO₂ record test
MTT-501: For NORMAL record test

Adjustment and measuring points without special mention refer to REC AMPL PCB. (See fig. 6-2)

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
12. Bias adj. preparation	—	—	R597/R697 R595/R695	Full CCW. Full CCW.	
13. Bias ampl. adjustment	REC/PLAY mode	No signal	U503/U603	R540/R640 at both ends Min. DC voltage	
14. Bias trap	REC/PLAY mode MTT-5072	No signal	L505/L605	TP.502/TP.602 Min. bias leak	

6-3 モニタ系

・MONITORスイッチ：SOURCE
 ・特記無き調整箇所及びTPはPLAYBACK AMPL PCB

調 整 項 目	準 備 ・ 設 定	入 力 信 号	調 整 箇 所	測 定 箇 所 ・ 調 整 値	備 考
7. LINE最小入力レベル	INPUTスイッチ： LINE REC PRESET LEVELつまみ 最大 MASTERつまみ： MAX	LINE IN 400Hz/-19dB	R159/R259	TP.103/TP.203 580mV(-2.5dB)	
	モード： REC/PLAY NR SYSTEM： DOB		R157/R257	TP.105/TP.205 387.5mV(-6dB)	OUTPUT： -5dB±1dB
8. MIC最小入力レベル	INPUTスイッチ： MIC NR SYSTEM： OUT	MIC 400Hz/-67dB	チェック	OUTPUT： -5dB±3dB	
9. LINE規定入力レベル	INPUTスイッチ： LINE	LINE IN 400Hz/-9dB	REC PRESET LEVELつまみ	OUTPUT： 0dB	
			MASTERつまみ	OUTPUT L： -5dB	Rec優先
10. メータ・レベル・ チェック	同 上	LINE IN 400Hz/-9dB	R199 [MIC AMPL]	OUTPUT L： -5dB±0.5dB	TP.103/TP.203 580mV±20mV
			ピーク・プログラム・レベル・ メータ	0dB点灯	
11. PHONES 出力レベル・チェック	PHONESつまみ： MAX	LINE IN 400Hz/-9dB	チェック	PHONES +1dB±2dB	8Ω 負荷
			PHONESつまみ	PHONES R： -5dB	
			R307 [MIC AMPL]	PHONES L： -5dB±1.5dB	

6-4 録音系

特記無き調整箇所及び測定箇所はREC AMPL PCB(図6-2参照)

調 整 項 目	準 備 ・ 設 定	入 力 信 号	調 整 箇 所	測 定 箇 所 ・ 調 整 値	備 考
12. バイアス調整準備	—	—	R597/R697	反時計方向・一杯	抵抗値最小
			R595/R695	反時計方向・一杯	抵抗値最大
13. バイアス・アンプ調整	無信号録音状態 テープ MTT-5072	無信号	U503/U603	R540/R640の両端電圧(DC電圧)が最小となる よう調整	
14. バイアス・トラップ 調整	同 上	同 上	L505/L605	TP.502/TP.602	バイアス補れ最小
15. バイアス・セット	—	—	R574/R674 R575/R675 R576/R676	全て中央(センター)	MANUAL BIAS PCB
			BIAS(METAL) (R111/R120)	時計方向・一杯	MANUAL PCB
	録音状態 テープ MTT-5072 MANUAL CAL TEST TONE OFF	LINE IN 6.3kHz/-30dB	R597/R697	録音出力最大 R597/R697で最大出力が求められない場合は、 R576/R676を時計方向に回して最大出力を求め る。その後R576/R676はセンター位置に戻して おくこと。	
			BIAS(METAL) (R111/R120)	反時計方向・一杯	MANUAL PCB
	同 上 REFERENCE		R597/R697	録音出力が最大値より5dB下 った点	オーバー・ バイアス
	同 上 テープ MTT-5061		R595/R695	2.5dB ピーク・オーバー	
	同 上 テープ MTT-501		R594/R694	2.5dB ピーク・オーバー	
	同 上 テープ MTT-501		R593/R693	3dB ピーク・オーバー	

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
15. Record bias	(Preparation)		R574/R674 R575/R675 R576/R676	Center position	on MANUAL BIAS PCB
			BIAS(METAL) (R111/R120)	Full CW.	on MANUAL PCB
	REC/PLAY MANUAL CAL TEST TONE OFF MTT-5072	LINE IN: 6.3 kHz/-39 dB (8.69 mV)	R597/R697	OUTPUT: Max	
				If peak level is not found, turn R576 or R676 clockwise to locate peak, then reset R576 or R676 to center	
			BIAS(METAL) (R111/R120)	Full CCW.	on MANUAL PCB
			R597/R697	Over-bias value 5 dB	
	" REFERENCE		R595/R695	Over-bias value 2.5 dB	
	" MTT-5061		R594/R694	Over-bias value 2.5 dB	
	" MTT-501		R593/R693	Over-bias value 3 dB	
16. Record level	MTT-501	LINE IN: 400 Hz/-9 dB (275 mV)	R590/R690	OUTPUT: -5 dB (436 mV)	
	MTT-5061		R591/R691		
	MTT-5072		R592/R692		
17. Frequency response	MTT-501	LINE IN: 400 Hz & 16 kHz alternately/-39 dB (8.69 mV)	L503/L603	OUTPUT: Equal level at both frequencies	If not, readjust R593/R693
	MTT-5061		L502/L602		If not, readjust R594/R694
	MTT-5072		L501/L601		If not, readjust R595/R695
18. Total harmonic distortion	MTT-5072	LINE IN: 400 Hz/-9 dB (275 mV)	Check	OUTPUT: 3.5% or less with NORMAL 2.0% or less with METAL, CrO ₂	
19. Signal-to-noise ratio	MTT-5072	LINE IN: 400 Hz/-9 dB (275 mV) ↓ no signal	Check	OUTPUT: NORMAL 45dBmin. CrO ₂ 48dBmin. METAL 48dBmin.	
20. Erase efficiency	- Connection is same as in Fig. 6-6, but engage 1-kHz filter. - Record a 1-kHz signal. Rewind tape to midpoint of recorded portion. - Record a "no signal" portion. Find the difference between the 1-kHz portion and the "no signal" portion.				
	MTT-5072	LINE IN: 1 kHz/+1 dB (0.869 V) ↓ no signal	Check	OUTPUT: 65 dB min. ratio	
21. Channel separation	- Connection Fig. 6-6, but do not connect LINE IN (R), and engage 1-kHz filter. - Set the deck to record mode. Find the difference between the 1-kHz recorded portion (L-ch) and the "no-signal" portion (R-ch). Then change the connection and check reverse operation.				
	MTT-5061	LINE IN: L-ch 1 kHz/-9 dB (275 mV) R-ch No signal	Check	OUTPUT: 35 dB min. ratio	
22. Adjacent track crosstalk	- Connection: Fig. 6-6, but do not connect LINE IN (L) and OUTPUT (L). - Record a 125-Hz signal on R-ch and note output level. Invert tape and play R-ch track. Check leakage level against the output reference of previously recorded portion.				
	MTT-5061	LINE IN: L-ch No signal R-ch 125 Hz/-9 dB (275 mV)	Check	OUTPUT: 45 dB min. ratio	

信号入力：LINE IN
調整箇所はすべてREC AMPL PCB

調 整 項 目	準 備 ・ 設 定	入 力 信 号	調 整 個 所	測 定 個 所 ・ 調 整 値	備 考	
16. 録音レベル・セット	MTT-501	400Hz/−9dB	R590/R690	録音出力 −5dB		
	MTT-5061		R591/R691			
	MTT-5072		R592/R692			
17. 録音周波数特性	MTT-501	400Hz/−39dB	L603/L603	録音出力 同レベル	R593/R693	
	MTT-5061	16kHz/−39dB	L502/L602		R594/R694	
	MTT-5072	掃進し	L501/L601		R595/R695	
	録音出力が同レベルにならないときは備考欄の半固定抵抗を微調整する。録音周波数特性 図6-12, 13, 14参照					
18. 総合歪率	MTT-501	400Hz/−9dB	チェック	NORMAL	3.5%以下	
	MTT-5061			C.O.	2.0%以下	
	MTT-5072			METAL	2.0%以下	
19. 総合S/N	MTT-501	400Hz/−9dB	チェック	NORMAL	45dB以上	NRSYSTEM OUT
	MTT-5061			C.O.	48dB以上	
	MTT-5072			METAL	48dB以上	
20. 消去率チェック	MTT-5072	1kHz/+1dB	チェック	録音部分を再生した時のレベルを基準レベルとし、録音部分を消去した時の出力レベルとの差 65dB以上		1kHz B.P.F.使用
21. チャネル間セパレーション・チェック	MTT-5061	Lch 1kHz/−9dB Rch 無信号	チェック	Lch再生レベルを基準とし、Rchとの出力レベルの差 35dB以上		1kHz B.P.F.使用
				LchとRchの相性を入れかえた場合についてもチェックすること		
22. トラッキング・クロストーク・チェック	同 上	Lch 無信号 Rch 125Hz/−9dB	チェック	録音されたトラックを再生したときの出力レベルを基準レベルとし、テープを反転して再生したときのRch出力レベルとの差 45dB以上		
23. REC MUTE効果チェック	同 上	1kHz/+1dB	チェック	1kHzを録音し、途中でREC MUTEキーを押して無信号録音部分を作る。このテープを再生したときの信号部分と無信号部分との出力レベル差 65dB以上 (1kHz B.P.F.使用)		
24. ドルビーNR効果チェック (B-TYPE)	同 上	1kHz/−29dB	チェック	NR SYSTEM スイッチをOUT位置にして信号を録音する。次にこれを再生し、スイッチをOUT⇄ ☒ と切替えた時の出力レベル変化 3dB〜6dB		
		10kHz/−39dB	チェック	測定法：上と同じ 8dB〜10dB		
25. ドルビーNR効果チェック (C-TYPE)	同 上	1kHz/−39dB	チェック	NR SYSTEM スイッチをOUT位置にして信号を録音する。次にこれを再生し、スイッチをOUT⇄ ☒ と切替えた時の出力レベル変化 16dB〜20dB		
		10kHz/−49dB	チェック	測定法：上と同じ 16dB〜20dB		

Adjustment and measuring points without special mention refer to REC AMPL PCB. (See fig. 6-2)

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
23. REC MUTE function	- Connection: Fig. 6-6, but engage 1-kHz filter. - Record a 1-kHz signal. Push REC MUTE button for several seconds. (At this time, make sure LED on the button lights). Rewind and play the tape. Find the difference between the 1-kHz portion and the "no-signal" portion.				
	MTT-5061	LINE IN: 1 kHz/±1 dB (0.859 V) ↓ no signal	Check	OUTPUT: 65 dB min. ratio	
24. Dolby NR effect (B-type)	Record a 1-kHz signal with NR SYSTEM switch OUT. Play this portion with NR SYSTEM switch set first to OUT, then to ☒ B. Obtain the difference in output level between OUT and ☒ B positions. Repeat the above process using a 10-kHz signal.				
	MTT-5061	LINE IN: 1 kHz/-29 dB (27.5 mV)	Check	OUTPUT: Variation 3 dB ~ 8 dB	
25. Dolby NR effect (C-type)	Repeat the same procedure as above, only see that the NR SYSTEM switch is set to ☒ C.				
	MTT-5061	LINE IN: 1 kHz/-39 dB (8.69 mV)	Check	OUTPUT: Variation 16 dB ~ 20 dB	
		LINE IN: 10 kHz/-49 dB (2.75 mV)	Check	OUTPUT: Variation 16 dB ~ 20 dB	

6-5 DBX PERFORMANCE

- Note:
- Test DBX performance only after you are sure that the "6-7 DBX PCB ADJUSTMENT" is correct.
 - TP.101/TP.201, TP.103/TP.203: on PLAYBACK AMPL. PCB
 - Others: DBX PCB
- DECK settings:
- MONITOR sw: TAPE
MASTER & REC PRESET LEVEL cont: Specified position (item 9)
NR SYSTEM sw: dbx
OUTPUT cont: Specified position (item 3)
INPUT sw: LINE
- TEAC test tape:
MTT-5072: For METAL record test

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
26. Encoding level	REC/PLAY mode MTT-5072	LINE IN: 400 Hz/-14.5 dB (146 mV)	Check	TP.103/TP.203 -8.2 dB (300 mV)	
	If, in the above step, the result is not within specifications, adjust using the MASTER and REC PRESET LEVEL controls so that the correct value is obtained when the controls are in the specified positions (item 9).				
	REC/PLAY mode MTT-5072	LINE IN: 400 Hz/-14.5 dB (146 mV)	R727/R827	P701-1/P701-4 on DBX PCB: -8.2 dB (300 mV)	
27. Decoding level	Record a 400 Hz signal with NR SYSTEM switch OUT. Rewind and play the recorded portion. Note the off-the-tape level from OUTPUT. . (1). Repeat the above process with NR SYSTEM switch set to dbx. Note the off-the-tape level. . (2). Compare the difference between (1) and (2). If ±1 dB or more, correct with R727/R827 using (1) as reference.				
	REC/PLAY mode MTT-5072	LINE IN: 400 Hz/-14.5 dB (146 mV)	Check	P702-1/P702-4 on DBX PCB: -8.2 dB (300 mV)	
28. dbx DISC	STOP mode MONITOR sw: NR SYSTEM sw: INPUT sw: SOURCE OUT dbx DISC	LINE IN: 400 Hz/-14.5 dB (146 mV)	Check	TP.101/TP.201: -8.2 dB (300 mV)	
		LINE IN: 20 Hz/-14.5 dB (146 mV)	Check	OUTPUT: -10.5 dB ± 2 dB (184 mV to 291 mV) OUTPUT: -22.5 dB ± 3 dB (41.1 mV to 82 mV)	

6-5 DBX系

R277/R827,R767/R867,P701,P702 : DBX PCB

TP.103/TP.203,TP.101/TP.201 : PLAYBACK AMPL PCB

調整項目	準備・設定	入力信号	調整箇所	測定箇所・調整値	備考
26. エンコーダ・レベル・セット	REC/PLAY MTT-5072 NR SYSTEM : dbx INPUT : LINE	LINE IN 400Hz/-14.5dB	チェック	TP.103/TP.203 -8.2dB	
			R727/R827	P701-1/P701-4 -8.2dB	
27. デコーダ・レベル・セット	同上	LINE IN 400Hz/-14.5dB	チェック	P702-1/P702-4 -8.2dB	
			R767/R867	TP.101/TP.201 -8.2dB	
28. dbx DISCチェック	STOP状態 MONITOR : SOURCE NR SYSTEM : OUT INPUT : dbx DISC	LINE IN 400Hz/-14.5dB	チェック	OUTPUT : -10.5dB ± 2dB	
		LINE IN 20Hz/-14.5dB	チェック	OUTPUT : -22.5dB ± 3dB	

6-6 MANUAL CALIBRATION

Note:

All test points refer to REC AMPL PCB.

DECK settings:

NR SYSTEM sw: OUT

INPUT sw: LINE

MONITOR sw: TAPE

MASTER & REC PRESET LEVEL cont:

Specified position (item 9)

OUTPUT cont: Specified position (item 3)

TEAC test tapes:

MTT-501: For NORMAL record test

MTT-5081: For CrO₂ record test

MTT-5072: For METAL record test

ITEM	SETTING	INPUT SIGNAL	ADJUST or (CHECK)	MEASURING POINT: RESULT	REMARKS
29. Internal OSC adj.	REC/PAUSE mode MANUAL CAL	LEVEL sw: on	R101 → R102 Repeat (on OSC PCB)	TP.501/TP.601 Distortion min.	Osc. freq. approx. 315 Hz
			R103 (on OSC PCB)	TP.501/TP.601 -26 dB ± 0.5 dB (36.7 mV to 41.1 mV)	
		EQ sw: on	R100 (on OSC PCB)	TP.501/TP.601 14 kHz ± 0.5 kHz	
30. METER calibration	REC/PLAY mode TEST TONE OFF MANUAL CAL CrO ₂ trimmer: BIAS center EQ MTT-5061	LINE IN: 400 Hz/-9 dB (436 mV)	CrO ₂ LEVEL trimmer (R107/R116)	OUTPUT: -5 dB (436 mV)	
			R596/R696 (on REC AMPL. PCB)	PEAK PROGRAM LEVEL METER: 0 dB	
31. EQ calibration range	REC/PLAY mode Short circuit between base and emitter on Q451 MANUAL CAL	EQ sw: on Internal osc. approx. 14 kHz	EQ trimmer	TP.502/TP.602: Level range variable by EQ trimmer 6dB ± 1dB or more	BIAS OSC is not oscillated.
	MTT-501		R103/R112		NORMAL
	MTT-5061		R104/R113		CrO ₂
	MTT-5072		R105/R114		METAL
32. BIAS calibration range	REC/PLAY mode TEST TONE OFF REFERENCE MTT-501	No signal	Check	TP.503/TP.603 (Read the bias level)	This value is reference bias current.
	MANUAL CAL BIAS sw: on		BIAS trimmer	TP.503/TP.603 Must be variable against reference value.	
	MTT-501		R109/R118	-2 dB to +2 dB	NORMAL
	MTT-5061		R110/R119	-2 dB to +2 dB	CrO ₂
	MTT-5072		R111/R120	-1.5 dB to +2 dB	METAL
33. LEVEL calibration range	REC/PLAY mode MANUAL CAL	LEVEL sw: on Internal osc. approx. 315 Hz	LEVEL trimmer	OUTPUT: Must be variable against reference level of -5 dB	
	MTT-501		R106/R115	-2.5 dB to +2.5 dB	NORMAL
	MTT-5061		R107/R116	-2.5 dB to +2.5 dB	CrO ₂
	MTT-5072		R108/R117	-2.5 dB to +2.5 dB	METAL

6-6 マニュアル・キャリブレーション系

測定個所のTPはすべてREC AMPL PCB

調整項目	準備・設定	入力信号	調整箇所	測定個所・調整値	備考
29. 内部共振調整	REC/PAUSE MANUAL CAL	LEVELスイッチ：オン	R101, R102 繰返し調整 (OSC PCB)	TP.501/TP.601 歪み最小	発振周波数 約 315Hz
			R103 (OSC PCB)	TP.501/TP.601 -26dB $\pm$ 0.5dB	
		EQスイッチ：オン	R100 (OSC PCB)	TP.501/TP.601 14kHz $\pm$ 0.5kHz	
30. メータ・キャリブレーション	REC/PLAY TEST TONE OFF MANUAL CAL CrO ₂ トリマー BIAS(R110/R119)：中央 EQ(R104/R113)：中央 MTT-5061	LINEIN 400Hz/-9dB	CrO ₂ LEVEL トリマー (R107/R116)	録音出力 -3dB	
			R596/R596 (REC AMPL PCB)	ピーク・プログラム・レベル メータ 0dB	
31. EQ可変範囲チェック	Q451 エミッター・ベース間 ショート(バイパス発振停止 状態)	EQスイッチ：オン (内部発振 約14kHz)	EQトリマー R103/R112 R104/R113 R105/R114	TP.502/TP.602 EQトリマーを反時計方向・ 一杯から時計方向一杯に同じ た時の信号レベル上昇 6dB $\pm$ 1dB	
	REC/PLAY MANUAL CAL				
	NORMAL MTT-501				
	CrO ₂ MTT-5061				
32. BIAS可変範囲チェック	REC/PLAY TEST TONE OFF REFERENCE MTT-501	無信号	チェック	TP.503/TP.603 この状態のバイアスを基準値 (0dB)とする	
	MANUAL CAL BIASスイッチ：オン	無信号	BIASトリマー	TP.503/TP.603 上記基準に対し、下記の範 囲以上可変できること	
	NORMAL MTT-501		R109/R118	-2dB $\sim$ +2dB	
	CrO ₂ MTT-5061		R110/R119	-2dB $\sim$ +2dB	
	METAL MTT-5072		R111/R120	-1.5dB $\sim$ +2dB	
33. LEVEL可変範囲チェック	REC/PLAY MANUAL CAL	LEVELスイッチ：オン (内部発振 約315Hz)	LEVELトリマー	録音出力が-5dBを基準と して下記の範囲以上可変で きること	
	NORMAL MTT-501		R106/R115	-2.5dB $\sim$ +2.5dB	
	CrO ₂ MTT-5061		R107/R116	-2.5dB $\sim$ +2.5dB	
	METAL MTT-5072		R108/R117	-2.5dB $\sim$ +2.5dB	

6-7 DBX PCB ADJUSTMENT

Note:

Since the DBX PCB assembly has been precisely adjusted at the factory, this adjustment is not usually needed unless any of the trimmers have been changed, or any components on the PCB have sustained damage.

6-7-1 PREPARATION

1. Disconnect all connectors on the DBX PCB, except for J704/J704 and J705/P705. Turn the deck OFF to prevent accidental

damage when disconnecting or reconnecting.

2. Make the following initial settings.

- POWER switch: ON (for supplying power via the connector to the DBX PCB).
 - NR SYSTEM switch: OUT
 - DBX PCB trimmers: Approximate center positions
- All other front panel switches and controls have no effect on this adjustment.

6-7-2 ENCODING ADJUSTMENT

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	RESULT	REMARKS
1. RMS SYM	Fig. 6-17	P700-1/P700-4 100 Hz/-8.2 dB (300 mV)	R737/R837	TP.1/TP.2: Clean 200 Hz sine-wave	Refer to Figs. 6-15 and 6-16.
2. Encoding level	Fig. 6-17	P700-1/P700-4 400 Hz/-8.2 dB*1 (300 mV)	R727/R827	P701-1/P701-4: -8.2 dB*2 (300 mV)	*1 Reference 1 *2 Reference 2
3. VCA SYM	Fig. 6-18	U700-3/U800-3	R711/R811	P701-1/P701-4: A relatively straight horizontal line on the 'scope face'. (Level variation: 5 mV or less)	
4. Encoding single frequency response	Fig. 6-17	P700-1/P700-4 100 Hz/-8.2 dB (300 mV)	Check	P701-1/P701-4: +0.2 dB $\pm$ 0.5 dB against Ref.2 (290 mV $\sim$ 325 mV)	
		P700-1/P700-4 10 kHz/-8.2 dB (300 mV)	Check	P701-1/P701-4: -3.3 dB $\pm$ 0.5 dB against Ref.2 (194 mV $\sim$ 217 mV)	
5. Encoding operation level	Fig. 6-17	P700-1/P700-4 400 Hz/-68.2 dB*1 (300 μ V)	Check	P701-1/P701-4 -30 dB $\pm$ 0.5 dB against Ref.2 (8.96 mV $\sim$ 10.1 mV)	*3 -60 dB against Ref.1
		P700-1/P700-4 400 Hz/+11.8 dB*4 (3.00 V)	Check	P701-1/P701-4: +10 dB $\pm$ 0.5 dB against Ref.2 (0.896 V $\sim$ 1.01 V) Distortion: 0.3% or less	*4 +20 dB against Ref.1

6-7-3 DECODING ADJUSTMENT

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	RESULT	REMARKS
6. RMS SYM	Fig. 6-19	P702-1/P702-4 100 Hz/-8.2 dB (300 mV)	R777/R877	TP.3/TP.4: Clean 200 Hz sine-wave	Refer to Figs. 6-15 and 6-16.
7. Encoding level	Fig. 6-19	P702-1/P702-4 400 Hz/-8.2 dB*1 (300 mV)	R767/R867	P703-1/P703-4: -8.2 dB*2 (300 mV)	*1 Reference 1 *2 Reference 2
8. VCA SYM	Fig. 6-20	U703-2/U803-2	R751/R851	P703-1/P703-4: A relatively straight horizontal line on the 'scope face'. (Level variation: 5 mV or less)	
9. Decoding single frequency response	Fig. 6-19	P702-1/P702-4 100 Hz/-8.2 dB (300 mV)	Check	P703-1/P703-4: -0.2 dB $\pm$ 1 dB against Ref.2 (261 mV $\sim$ 329 mV)	
		P702-1/P702-4 10 kHz/-8.2 dB (300 mV)	Check	P703-1/P703-4: +5.5 dB $\pm$ 1 dB against Ref.2 (504 mV $\sim$ 634 mV)	
10. Decoding operation level	Fig. 6-19	P702-1/P702-4 400 Hz/-38.2 dB*3 (9.49 mV)	Check	P703-1/P703-4: -60 dB $\pm$ 1 dB against Ref.2 (267 μ V $\sim$ 337 μ V)	*3 -30 dB against Ref.1
		P702-1/P702-4 400 Hz/+11.8 dB*4 (0.949 V)	Check	P703-1/P703-4 +20 dB $\pm$ 1 dB against Ref.2 (2.67 V $\sim$ 3.37 V)	*4 +10 dB against Ref.2

6-7 DBX基板単体調整

注1. DBXユニットは通常調整の必要はありません。もし調整する場合は以下の要領で行なって下さい。

注2. DBXユニット及びそのコネクタを外す時は、必ずZ-6000の電源を切ってから行なって下さい。

注3. 調整箇所は図6-5(13ページ)を参照して下さい。

6-7-1 エンコーダ調整

調整項目	準備・設定	入力信号	調整箇所	測定箇所・調整値	備考
1. RMS SYM調整	接続 図6-17	P700-1/P700-4 100Hz/300mV	R737/R837	TP1/TP2 出力波形が 200Hzの正弦波になるよう調整	図6-15, 図6-16 参照
2. 基準レベル調整	同上	P700-1/P700-4 400Hz/300mV	R727/R827	P701-1/P701-4 300mV	
3. VCA SYM調整	接続 図6-18	U700-3/U800-3 階段波	R711/R811	P701-1/P701-4 モニタ波形がほぼ一直線 (5mV以下)になるよう調整	
4. 周波数特性チェック	接続 図6-17	P700-1/P700-4 100Hz/300mV	チェック	P701-1/P701-4 290mV~325mV	
		同上 10kHz/300mV	チェック	同上 194mV~217mV	
5. エンコード効果 チェック	同上	同上 400Hz/300μV	チェック	同上 8.86mV~10.1mV	
		同上 400Hz/3.0V	チェック	同上 0.896mV~1.01V	歪率0.3%以下

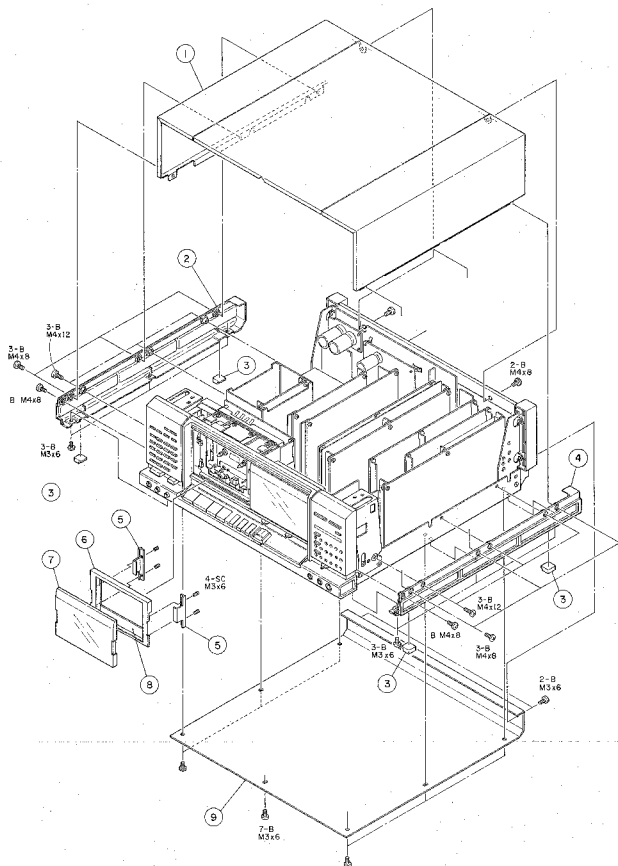
6-7-2 デコーダ調整

調整項目	準備・設定	入力信号	調整箇所	測定箇所・調整値	備考
6. RMS SYM調整	接続 図6-19	P702-1/P702-4 100Hz/300mV	R777/R877	TP3/TP4 出力波形が 200Hzの正弦波になるよう調整	図6-15, 図6-16 参照
7. 基準レベル調整	同上	P702-1/P702-4 400Hz/300mV	R767/R867	P703-1/P703-4 300mV	
8. VCA SYM調整	接続 図6-20	U703-2/U803-2 階段波	R751/R851	P703-1/P703-4 モニタ波形がほぼ一直線 (5mV以下)になるよう調整	
9. 周波数特性チェック	接続 図6-19	P702-1/P702-4 100Hz/300mV	チェック	P703-1/P703-4 216mV~329mV	
		同上 10kHz/300mV	チェック	同上 504mV~634mV	
10. デコード効果 チェック	同上	同上 400Hz/9.49mV	チェック	同上 267μV~337μV	
		同上 400Hz/0.949V	チェック	同上 2.67V~3.37V	

7 EXPLODED VIEWS AND PARTS LIST

分解図とパーツ・リスト

EXPLODED VIEW-1



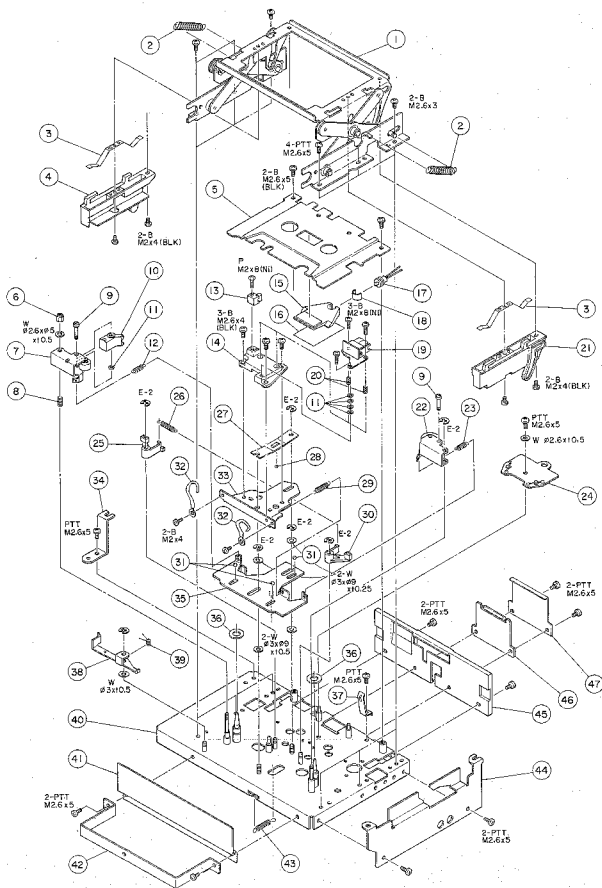
Parts marked with *require longer delivery time.

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
1 - 1	*5800453300	Cover, Top		
1 - 2	*5800430600	Angle, slide; L		
1 - 3	*5800434200	Foot, Rubber; B		
1 - 4	*5800430700	Angle, Slide; R		
1 - 5	*5800422900	Holder, Cassette Cover		
1 - 6	*5800429001	Frame, Cassette Cover		
1 - 7	5800422401	Cover, Cassette		
1 - 8	*5800422800	Plate, Cassette Cover; B		
1 - 9	*5800435001	Cover, Bottom		

Parts marked with *require longer delivery time.

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
	*5700044200	Z-6000 Owner's Manual [J]		
	*5700044400	Z-6000 Owner's Manual [All except J]		
	*5350010900	Cord, In-output		
	*5740000000	⊗ Screw Driver		
	*5744033700	Remote Control Unit, RC-201		

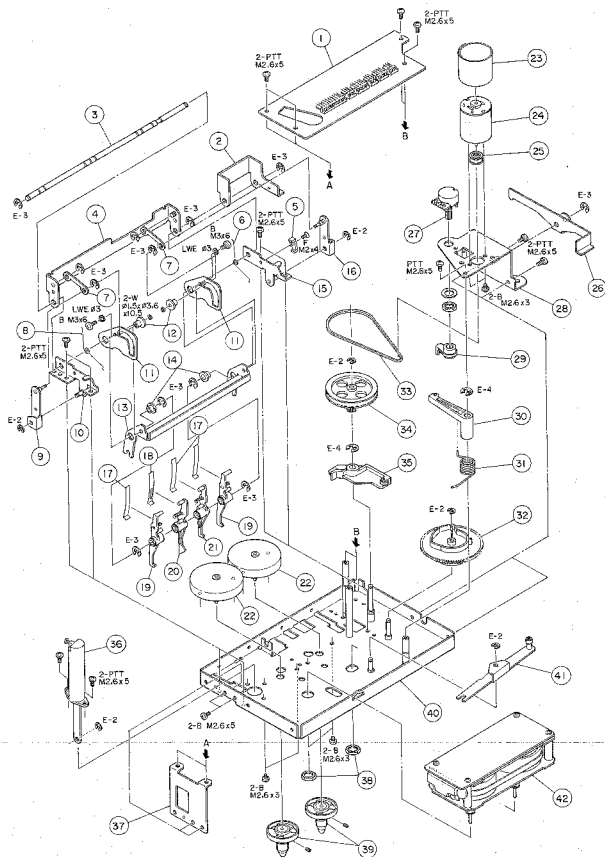
EXPLODED VIEW-2



Parts marked with *require longer delivery time.

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
2 - 1	*5800436602	Holder Assy, Cassette		
2 - 2	*5800427700	Spring, Eject		
2 - 3	*5800422100	Spring, Cassette Pressure; A		
2 - 4	5800428300	Holder, L		
2 - 5	*5800423100	Panel, Cassette		
2 - 6	*5761952600	Nut, Nylon; M2.6		
2 - 7	5800417800	Pinch Roller Assy, L		
2 - 8	*5800418400	Spring, Arm		
2 - 9	*5800418200	Screw, Adjusting		
2 - 10	*5800427900	Guide, Tape		
2 - 11	*5800418300	Washer, Wave		
2 - 12	*5800418500	Spring, Pinch Roller; L		
2 - 13	5378902600	Head, Erase		
2 - 14	*5800427800	Stand, Head		
2 - 15	*5800428200	Lens, Cassette		
2 - 16	*5800234300	Plate, Reflective		
2 - 17	5310005601	Lamp, 6V		
2 - 18	*5800423302	Filter		
2 - 19	5378902500	Head, R/P Combination		
2 - 20	*5800504800	Spring, Head		
2 - 21	5800428400	Holder, R		
2 - 22	5800417300	Pinch Roller Assy, R		
2 - 23	*5800417700	Spring, Pinch Roller; R		
2 - 24	*5200104600	PCB Assy, SENSOR		
2 - 25	*5800445101	Arm Assy, Brake; L		
2 - 26	*5800420100	Spring, Brake		
2 - 27	*5800416900	Spring, Pressure		
2 - 28	5540055000	Steel Ball, $\phi 2$		
2 - 29	*5800417101	Spring, Head Base		
2 - 30	*5800445201	Arm Assy, Brake; R		
2 - 31	5540056000	Steel Ball, $\phi 3$		
2 - 32	*5581062000	Clamper, Cord; E		
2 - 33	*5800416600	Plate, Head Base		
2 - 34	*5800414800	Bracket, Mechanism; A		
2 - 35	*5800416700	Plate Assy		
2 - 36	*5800417000	Spacer		
2 - 37	*5800414702	Spring, Cassette Pressure; B		
2 - 38	*5800426000	Lever, Eject Preventing		
2 - 39	*5800427400	Spring, Eject Preventing		
2 - 40	*5800426700	Chassis Assy, Mechanism		
2 - 41	*5800468100	Plate, Head Shield		
2 - 42	*5800510300	Holder		
2 - 43	*5800417200	Spring, Head Base Return		
2 - 44	*5800414901	Bracket, Mechanism; B		
2 - 45	*5800428600	Escutcheon, Lamp		
2 - 46	*5200104100	PCB Assy, MECHANISM (3)		
2 - 47	*5800423200	Paper, Lamp Insulating		

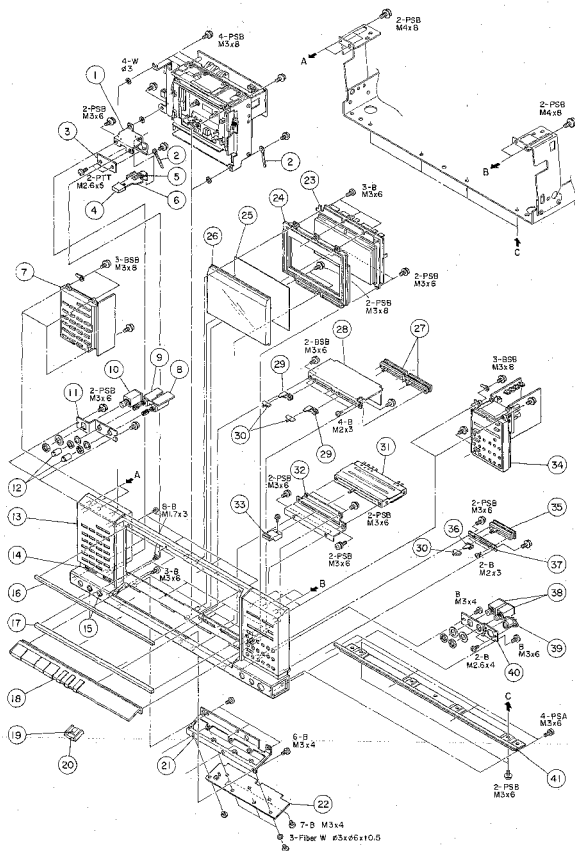
EXPLODED VIEW-3



Parts marked with *require longer delivery time.

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
3 - 1	*5200103900	PCB Assy, MECHANISM (1)		
3 - 2	*5800423500	Arm, Release; A		
3 - 3	*5800424200	Shaft		
3 - 4	*5800423601	Arm Assy, Release; B		
3 - 5	*5800436500	Stopper		
3 - 6	*5800427300	Spring, Eject Lock; R		
3 - 7	*5800425500	Plate, Joint		
3 - 8	*5800427200	Spring, Eject Lock; L		
3 - 9	*5800425200	Arm Assy, Eject Lock; R		
3 - 10	*5800424600	Bracket Assy, Lock Arm; R		
3 - 11	*5800424101	Cam, Eject Lock		
3 - 12	*5800425400	Roller, Rock Arm		
3 - 13	*5800424000	Plate, Rock Cam Joint		
3 - 14	*5800436400	Collar, Joint		
3 - 15	*5800424300	Bracket Assy, Lock Arm; L		
3 - 16	*5800424800	Arm Assy, Eject Lock; L		
3 - 17	*5800426600	Spring, Sensor Arm; A		
3 - 18	*5800461400	Spring, Sensor Arm; B		
3 - 19	*5800426300	Arm, Sensor; A		
3 - 20	*5800426500	Arm, Sensor; C		
3 - 21	*5800426400	Arm, Sensor; B		
3 - 22	5370003600	Motor, Reel; DC	V-1RX	
3 - 23	*5800235900	Plate, Shield	V-9	
3 - 24	5370001400	Motor, DC	V-9	
3 - 25	5800123300	Pulley, V		
3 - 26	*5800423400	Arm, Eject; A		
3 - 27	5282009601	Var. Res., 10k Ω (B)		
3 - 28	*5800418600	Bracket Assy, Motor		
3 - 29	*5800418800	Joint		
3 - 30	*5800418900	Arm Assy, Balance		
3 - 31	*5800114600	Spring, Balance Arm	V-9	
3 - 32	5800428900	Cam, Control		
3 - 33	5800419200	Belt, Reduction Pulley		
3 - 34	5800117200	Pulley, Reduction	V-9	
3 - 35	*5800425601	Arm Assy, Eject Release		
3 - 36	5800426101	Damper Assy		
3 - 37	*5800426800	Bracket, PCB		
3 - 38	*5800442300	Nut		
3 - 39	5800419601	Table Assy, Reel		
3 - 40	*5800426700	Chassis Assy, Mechanism		
3 - 41	*5800448000	Arm Assy, Head Base		
3 - 42	5370003500	Motor Assy, Capstan; DC		

EXPLODED VIEW-4



Parts marked with *require longer delivery time.

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
4 - 1	*5800427101	Holder Eject		
4 - 2	*5581038000	Clamper, Cord; A		
4 - 3	*5200104000	PCB Assy, MECHANISM (2)		
4 - 4	5800410400	Button		
4 - 5	*5800427002	Spring, Eject Return		
4 - 6	*5800426902	Lever, Eject		
4 - 7	5301853500	Key Unit, 2-L		
4 - 8	*5200104300	PCB Assy, PITCH CON		
4 - 9	*5200104700	PCB Assy, HEADPHONE VR		
4 - 10	5330008500	Jack, PHONES		
4 - 11	*5800433400	Bracket, Jack		
4 - 12	5800448400	Knob, VR		
4 - 13	*5800448600	Panel, Front; B		
4 - 14	*5800432200	Escutcheon, Button		
4 - 15	*5800433800	Escutcheon, VR Knob		
4 - 16	*5800431000	Sash, A		
4 - 17	*5800431100	Sash, B		
4 - 18	*5800443902	Sash Assy, Control		
4 - 19	*5800447800	Lens, VR Knob		
4 - 20	5800447700	Knob, Master VR		
4 - 21	*5800434400	Bracket, Control PCB		
4 - 22	*5200103200	PCB Assy, CONTROL SW		
4 - 23	5298008201	Meter, FL		
4 - 24	*5800435301	Escutcheon, Meter		
4 - 25	*5800430800	Filter		
4 - 26	*5800434301	Cover, Meter		
4 - 27	*5200104400	PCB Assy, VOLUME (1)		
4 - 28	*5800469501	Bracket, VR		
4 - 29	*5800433100	Lever, Knob; B		
4 - 30	5800433700	Knob, VR		
4 - 31	5284006600	Var. Res., Slide; 50k Ω (A) x 2		
4 - 32	*5800432801	Bracket, Master VR		
4 - 33	*5800434502	Slider, VR		
4 - 34	5301853600	Key Unit, 2-R		
4 - 35	*5200104500	PCB Assy, VOLUME (2)		
4 - 36	*5800433000	Lever, Knob; A		
4 - 37	*5800433200	Bracket, VR; A		
4 - 38	5330008400	Jack, MIC		
4 - 39	5334027500	Connector Socket, 4P		
4 - 40	*5800433500	Bracket, Mic Jack		
4 - 41	*5800435100	Bracket, Chassis		
	*5640043100	Panel Assy, Front (Included Part REF. NOs 4 -1 to 4 -41.)		

Parts marked with *require longer delivery time.

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
5 - 1	*5800443800	Foot Assy, Rear		
5 - 2	*5800434700	Bracket, Rear Panel; L		
5 - 3	*5200105600	PCB Assy, CONDENSER		
5 - 4	*5200102400	PCB Assy, POWER SUPPLY [All except US, C]		
	*5200102410	PCB Assy, POWER SUPPLY [US, C]		
5 - 5	*5200103600	PCB Assy, DIODE (1)		
5 - 6	*5200103700	PCB Assy, DIODE (2)		
5 - 7	*5200103800	PCB Assy, DIODE (3)		
5 - 8	*5787000300	Support, PCB		
5 - 9	*5581038000	Clempor, Cord; A		
5 - 10	*5800435202	Heatsink		
5 - 11	*5800444802	Panel, Rear; B		
5 - 12	Δ *5534660000	Bush, Cord; 4N-4 [All except UK]		
	Δ *5317001700	Bush, Cord; 4N-5 [UK]		
5 - 13	Δ *5128027000	Cord, AC Power [J]		
	Δ *5350010800	Cord, AC Power [US, C, GE]		
	Δ *5128018000	Cord, AC Power [E]		
	Δ *5350008300	Cord, AC Power [A]		
	Δ *5128047000	Cord, AC Power [UK]		
5 - 14	*5534118000	Rivet, Push		
5 - 15	*5200104200	PCB Assy, IN/OUTPUT		
5 - 16	Δ *5320020301	Transformer, Power [J]		
	Δ *5320020401	Transformer, Power [US, C]		
	Δ *5320020601	Transformer, Power [GE]		
	Δ *5320020501	Transformer, Power [E, UK, A]		
5 - 17	*5800433600	Plate, Shield; A		
5 - 18	*5800434800	Bracket, Rear Panel; R		
5 - 19	*5033281000	Plate, Insulating		
5 - 20	*5200103500	PCB Assy, TRANSISTOR		
5 - 21	*5033285000	Tube, Insulating; P		
5 - 22	*5800442600	Bracket, PCB; A		
5 - 23	*5800442700	Bracket, PCB; B		
5 - 24	*5200102000	PCB Assy, AMPL CONTROL [All except US, C]		
	*5200102010	PCB Assy, AMPL CONTROL [US, C]		
5 - 25	*5200101400	PCB Assy, CONTROL [All except US, C]		
	*5200101410	PCB Assy, CONTROL [US, C]		
5 - 26	*5200101201	PCB Assy, COUNTER [All except US, C]		
	*5200101211	PCB Assy, COUNTER [US, C]		
5 - 27	*5800468000	Plate, Shield; C		
5 - 28	*5200100200	PCB Assy, PLAYBACK AMPL [All except US, C]		
	*5200100210	PCB Assy, PLAYBACK AMPL [US, C]		
5 - 29	*5200101600	PCB Assy, DOLBY [All except US, C]		
	*5200101610	PCB Assy, DOLBY [US, C]		
5 - 30	*5200101800	PCB Assy, DBX [All except US, C]		
	*5200101810	PCB Assy, DBX [US, C]		
5 - 31	*5800468200	Plate, Shield; D		
5 - 32	*5200101000	PCB Assy, REC AMPL [All except US, C]		
	*5200101010	PCB Assy, REC AMPL [US, C]		
5 - 33	*5581056000	Screw, Shoulder; A		
5 - 34	*5800444702	Bracket, Panel; R		
5 - 35	*5200104800	PCB Assy, POWER SW		
5 - 36	Δ 5052807000	Spark Killer, 0.01μF + 300Ω/300V [J, GE]		
	Δ 5052910000	Spark Killer, 0.033μF + 120Ω/125V [US]		
	Δ 5052911000	Spark Killer, 0.033μF + 120Ω/250V [C]		
	Δ 5267702500	Spark Killer, 0.0047μF/250V [E, UK, A]		
5 - 37	5800432700	Bracket, Power SW		
5 - 38	*5786360500	Pin, Snap		
5 - 39	*5534712000	Rod, Joint; B	X-10R	
5 - 40	*5800010301	Button, Power		
5 - 41	*5800447301	Case, Shield		
5 - 42	*5200102800	PCB Assy, MIC AMPL [All except US, C]		
	*5200102810	PCB Assy, MIC AMPL [US, C]		

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

Parts marked with *require longer delivery time.

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
5 -43	*5800447603	Chassis, Ampl.		
5 -44	*5800444602	Bracket, Panel; L		
5 -45	*5800505800	Bracket, PCB; D		
5 -46	*5200125600	PCB Assy, MANUAL BIAS		
5 -47	*5800481800	Collar		
5 -48	*5200119100	PCB Assy, AUTO STOP		
5 -49	*5200121700	PCB Assy, RESET		
5 -50	*5800516300	Bracket, FUSE PCB [E, UK, A, US, C]		
5 -51	*5200103300	PCB Assy, FUSE (1) [E, UK, A]		
	*5200103400	PCB Assy, FUSE (2) [US, C]		
5 -52	*5800447600	Bracket, Voltage Selector Switch [GE]		
5 -53	*5302101200	Switch, Voltage Selector [GE]		

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

ASSEMBLING HARDWARE CODING LIST

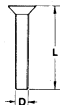
All screws conform to ISO standards, and have crossrecessed heads, unless otherwise noted.
ISO screws have the head inscribed with a point as in the figure to the right.



FOR EXAMPLE:

B M 3 x 6

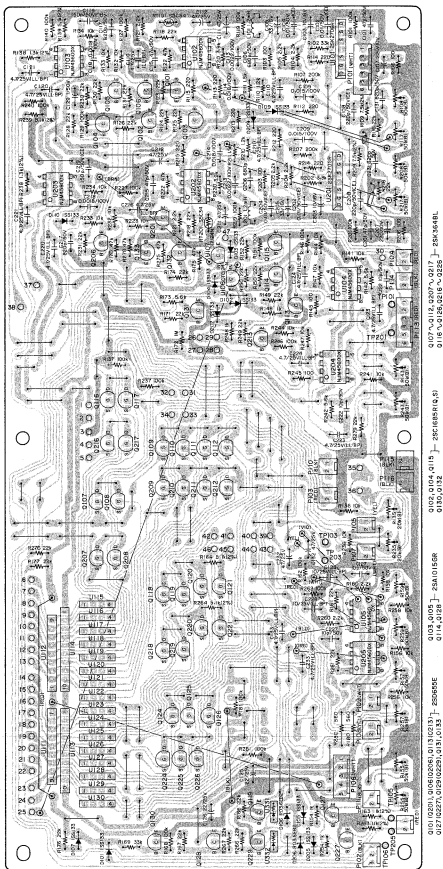
----- Length in mm (L)
----- Diameter in mm (D) *
----- Metric System
----- Nomenclature



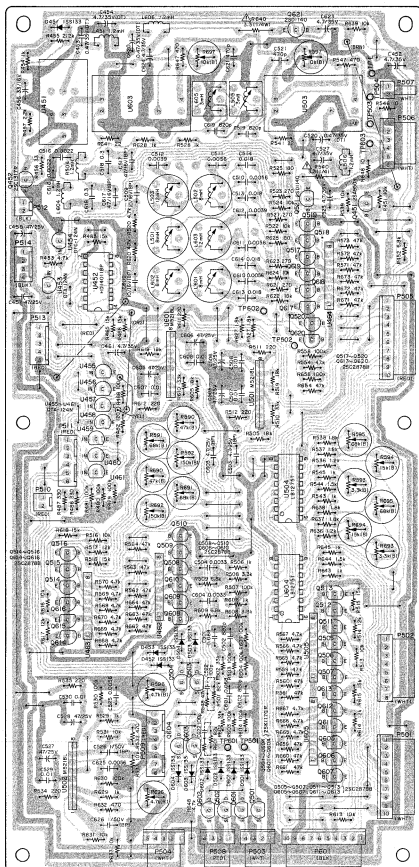
* Inner dia. for washers and nuts

	Code	Name	Type		Code	Name	Type
MACHINE SCREW	R	Round Head Screw		TAPPING SCREW	BTA	Binding Head Tapping Screw(A Type)	
	P	Pan Head Screw			BTB	Binding Head Tapping Screw(B Type)	
	T	Stove Head Screw (Truss)			RTA	Round Head Tapping Screw(A Type)	
	B	Binding Head Screw			RTB	Round Head Tapping Screw(B Type)	
	F	Flat Countersunk Head Screw		SETSCREW	SF	Hex Socket Setscrew(Flat Point)	
	O	Oval Countersunk Head Screw			SC	Hex Socket Setscrew(Cup Point)	
WOOD SCREW	RW	Round Head Wood Screw			SS	Slotted Socket Setscrew(Flat Point)	
TAPTITE SCREW	PTT	Pan Head Taptite Screw		WASHER	E	E-Ring (Retaining Washer)	
	WTT	Washer Head Taptite Screw			W	Flat Washer (Plain)	
SEMS SCREW	BSA	Binding Head SEMS Screw(A Type)			SW	Lock Washer (Spring)	
	BSB	Binding Head SEMS Screw(B Type)			LWI	Lock Washer (Internal Teeth)	
	BSF	Binding Head SEMS Screw(F Type)			LWE	Lock Washer (External Teeth)	
	PSA	Pan Head SEMS Screw(A Type)			TW	Trim Washer (Countersunk)	
	PSB	Pan Head SEMS Screw(B Type)		NUT	N	Hex Nut	

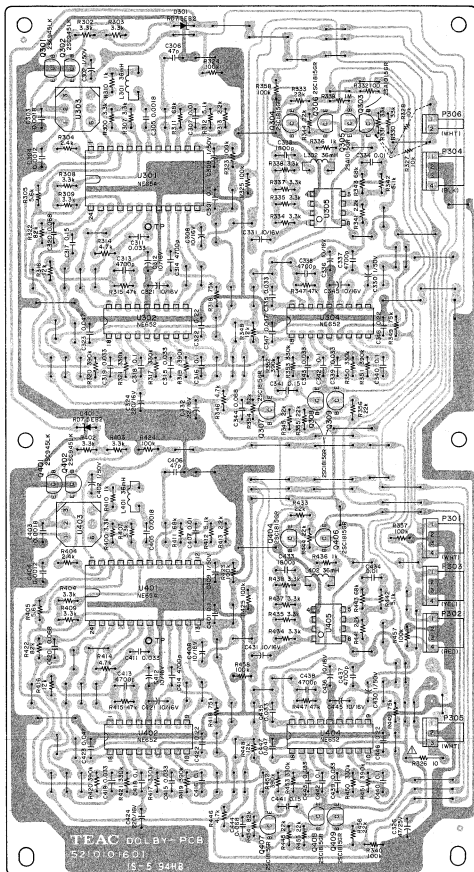
PLAYBACK AMPL PCB ASSY



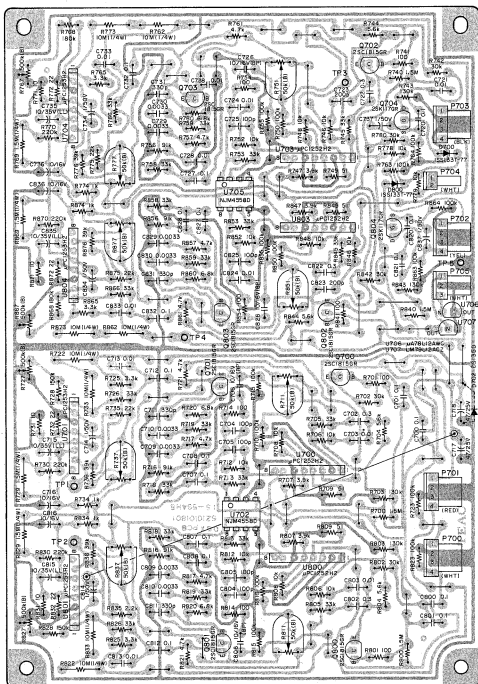
REC AMPL PCB ASSY



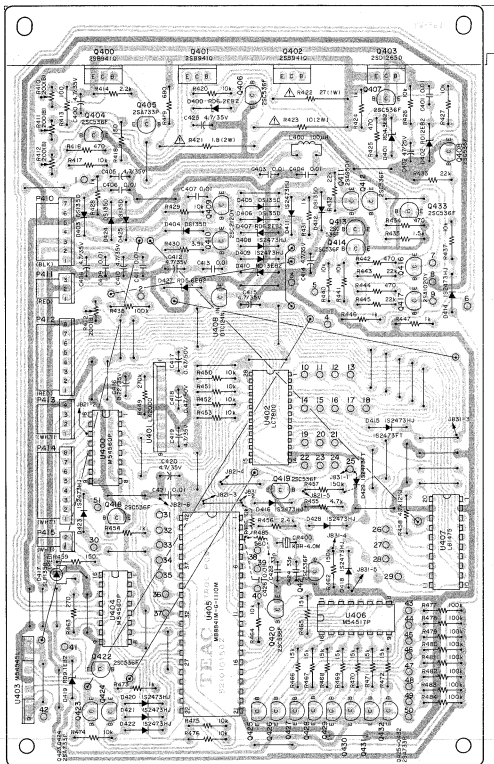
DOLBY PCB ASSY



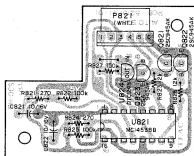
DBX PCB ASSY



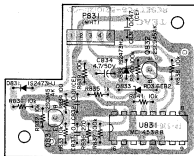
SYSTEM CONTROL PCB ASSY



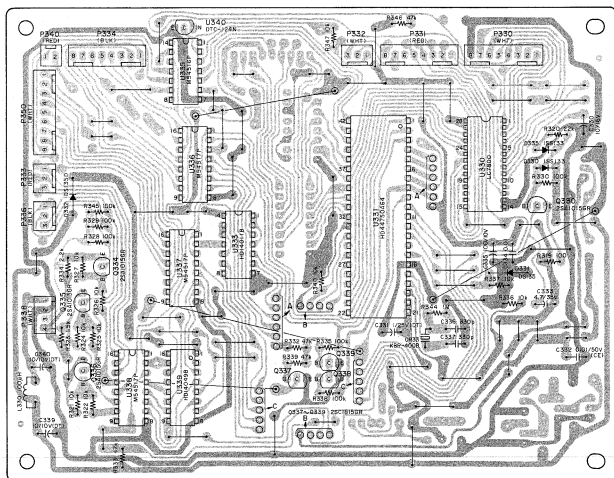
AUTO STOP PCB ASSY



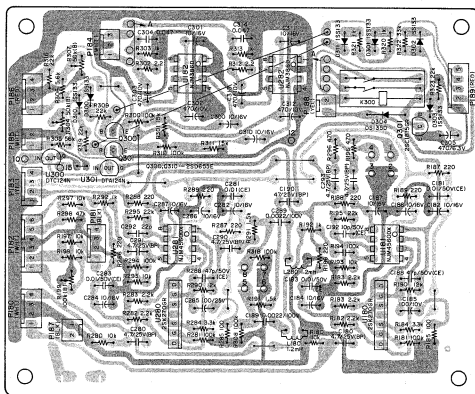
RESET PCB ASSY



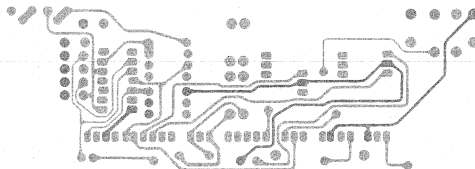
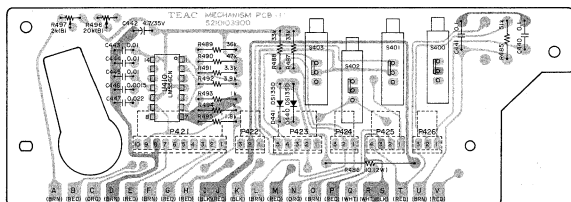
AMPL CONTROL PCB ASSY



MIC AMPL PCB ASSY

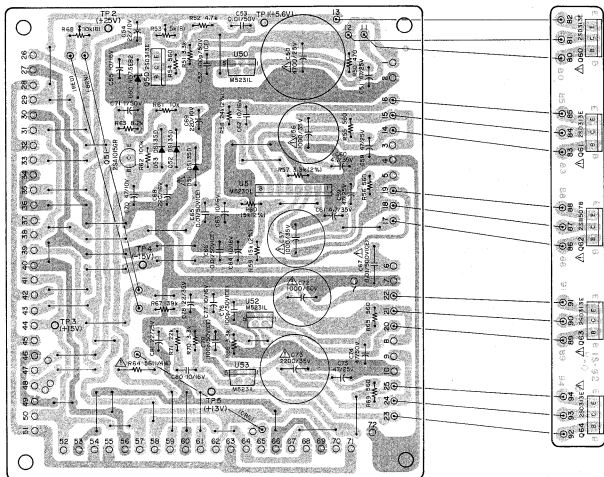


MECHANISM PCB (1) ASSY

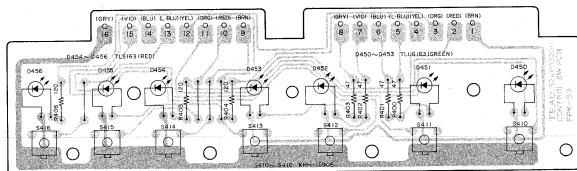


POWER SUPPLY PCB ASSY

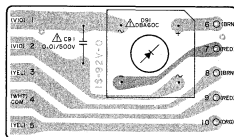
TRANSISTOR PCB ASSY



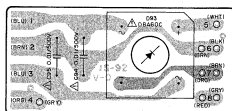
CONTROL SW PCB ASSY



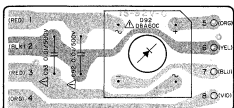
DIODE PCB (1) ASSY



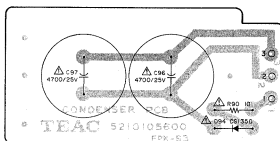
DIODE PCB (3) ASSY



DIODE PCB (2) ASSY



CONDENSER PCB ASSY



NOTES

- PC boards are shown viewed from foil side.
- The colors on the PC board illustrations have the following significance:
 - : +B power supply circuit
 - : -B power supply circuit
 - : GND
 - : other
- Resistor values are in ohms (k=kilo-ohms M=megohms).
- All capacitor values are in microfarads (p=picofarads).
- △ Parts marked with this sign are safety critical components. They must always be replaced with identical components. Refer to the appropriate parts list to ensure exact replacement.
- As the PC boards mentioned below form units, they are omitted in the PCB figures and parts list.

KEY UNIT 2-L (5301853500)

SW PCB (B)

SW PCB (E)

KEY UNIT 2-R (5301853600)

SW PCB (D)

OSC PCB

MANUAL PCB

METER UNIT (5296006201)

METER PCB

DC CAPSTAN MOTOR ASSY (5370003500)

CAPSTAN SERVO PCB

注

- 基板図はパターン面が示されています。
- プリント・パターンは次のように色別されています。
 - : +B 電源回路
 - : -B 電源回路
 - : GND
 - : その他の回路
- 抵抗の単位はΩ (k=kΩ, M=MΩ) です。
- コンデンサの単位はμF (p=pF) です。
- △マークのある部品は安全重要部品です。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。
- 下記の基板はユニットになっているため基板図およびパーツ・リストは省略されています。

KEY UNIT 2-L (5301853500)

SW PCB (B)

SW PCB (E)

KEY UNIT 2-R (5301853600)

SW PCB (D)

OSC PCB

MANUAL PCB

METER UNIT (5296006201)

METER PCB

DC CAPSTAN MOTOR Assy (5370003500)

(CAPSTAN SERVO PCB)

PLAYBACK AMPL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200100200	PCB Assy [J, GE, E, UK, A]
	5200100210	PCB Assy [US, C]
	5210100201	PCB [J, GE, E, UK, A]
	5210100301	PCB [US, C]
	IC's	
U102, U202	52204111100	NJM4560D-X
U103, U203	52204111100	NJM4560D-X
U104, U204	52204111100	NJM4560D-X
U105, U205	52204111100	NJM4560D-X
U106	5232251200	DTC-124N
U107	5232251100	DTC-124N
	TRANSISTORS	
U101, U201	5232006100	FET 2SK270GR
Q101, Q201	5145185000	2SD655E
Q102	5230776520	2SC1685R
Q103	5145150000	2SA1015GR
Q104	5230776520	2SC1685R
Q105	5145150000	2SA1015GR
Q106, Q206	5145185000	2SD655E
Q107, Q207	5232007200	FET 2SK364BL
Q108, Q208	5232007200	FET 2SK364BL
Q109, Q209	5232007200	FET 2SK364BL
Q110, Q210	5232007200	FET 2SK364BL
Q111, Q211	5232007200	FET 2SK364BL
Q113, Q213	5145185000	2SD655E
Q114	5145150000	2SA1015GR
Q115	5230776520	2SC1685R
Q116, Q216	5232007200	FET 2SK364BL
Q117, Q217	5232007200	FET 2SK364BL
Q118, Q218	5232007200	FET 2SK364BL
Q119, Q219	5232007200	FET 2SK364BL
Q120, Q220	5232007200	FET 2SK364BL
Q121, Q221	5232007200	FET 2SK364BL
Q124, Q224	5232007200	FET 2SK364BL
Q125, Q225	5232007200	FET 2SK364BL
Q126, Q226	5232007200	FET 2SK364BL
Q127, Q227	5145185000	2SD655E
Q128	5145150000	2SA1015GR
Q129, Q229	5145185000	2SD655E
Q130	5230776520	2SC1685R
Q131	5145185000	2SD655E
Q132	5230776520	2SC1685R
Q133	5145185000	2SD655E
	DIODES	
D101	5224015020	1SS133T-77
D102, D202	5224015020	1SS133T-77
D103	5224015020	1SS133T-77
D104	5224015020	1SS133T-77
D105, D205	5224015020	1SS133T-77
D106, D206	5224539301	Zener, RD3.6E52
D107	5224015020	1SS133T-77
D109	5224015020	1SS133T-77
D110	5224015020	1SS133T-77

REF. NO.	PARTS NO.	DESCRIPTION
CARBON RESISTORS		
All resistors are rated $\pm 5\%$ tolerance and $\frac{1}{4}$ watt unless otherwise noted.		
R101, R201	5240033020	100k Ω
R102, R202	5240029420	3.3k Ω
R103, R203	5240025820	100 Ω
R104, R204	5240028020	2.2k Ω
R105, R205	5240025020	2.2k Ω
R106, R206	5240025820	100 Ω
R107, R207	5240073720	200k Ω
R109, R209	5240070320	7.5k Ω
R110, R210	5240028420	1.2k Ω
R111, R211	5240028620	1.5k Ω
R112, R212	5240026620	220 Ω
R113, R213	5240026620	220 Ω
R114, R214	5240026620	220 Ω
R115, R215	5240026620	220 Ω
R116, R216	5240031420	22k Ω
R118, R218	5240031420	22k Ω
R119, R219	5240033020	100k Ω
R120, R220	5240029620	3.9k Ω
R121, R221	5240029020	2.2k Ω
R122, R222	5240032220	47k Ω
R123, R223	5240031420	22k Ω
R124	5240031420	22k Ω
R125	5240031420	22k Ω
R126	5240031420	22k Ω
R127, R227	5240033020	100k Ω
R128	5240031420	22k Ω
R129	5240033020	100k Ω
R130, R230	5240031420	22k Ω
R131, R231	5240031420	22k Ω
R132, R232	5240030620	10k Ω
R133, R233	5240030620	10k Ω
R134, R234	5240030620	10k Ω
R135, R235	5240030620	10k Ω
R137, R237	5240033020	100k Ω
R138, R238	5240068520	1.3k Ω
R139, R239	5240069920	5.1k Ω
R140, R240	5240033020	100k Ω
R141, R241	5240030620	10k Ω
R142, R242	5240030020	5.6k Ω
R144, R243	5240030620	10k Ω
R145, R245	5240025520	100 Ω
R146, R246	5240033020	100k Ω
R147, R247	5240030620	10k Ω
R148, R248	5240028220	1k Ω
R149, R249	5240031420	22k Ω
R150, R250	5240031420	22k Ω
R151	5240033020	100k Ω
R152	5240031420	22k Ω
R153, R253	5183168000	10M Ω $\frac{1}{4}$ W
R154, R254	5240028220	1k Ω
R155, R255	5240030620	10k Ω
R158, R258	5240030620	10k Ω
R160, R260	5240029020	2.2k Ω
R161, R261	5240031420	22k Ω
R162, R262	5240033020	100k Ω

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

REF. NO.	PARTS NO.	DESCRIPTION
R163, R263	5240070720	11kΩ 2%
R164, R264	5240068920	5.1kΩ 2%
R166, R266	5240031420	22kΩ
R167, R267	5240031420	22kΩ
R168	5240033020	100kΩ
R169	5240031820	33kΩ
R170, R270	5240032220	47kΩ
R171	5240031420	22kΩ
R172	5240035420	1MΩ
R173	5240030020	5.6kΩ
R174	5240031420	22kΩ
R175, R275	5240032220	47kΩ
R176, R276	5240031420	22kΩ
R177	5240031420	22kΩ
R279	5240031420	22kΩ
R180, R280	5181476000	560Ω %W
R181, R281	5240033020	100kΩ
CAPACITORS		
C101, C201	5172208000	Ceramic 47pF 50V
C102, C202	5172236000	Ceramic 0.01μF 50V
C103, C203	5260162550	Elec. 10μF 16V
C104, C204	5172236000	Ceramic 0.01μF 50V
C105, C205	5260164252	Elec. 33μF 16V
C106, C206	5172824000	Polyst. 680pF 50V 5%
C107, C207	5260168552	Elec. 220μF 10V
C108, C208	5172216000	Ceramic 220pF 50V
C109, C209	5171860000	Mylar 0.015μF 100V 5%
C110, C210	5260253650	Elec. 4.7μF 25V BP
C111, C211	5260165252	Elec. 47μF 25V
C112, C212	5260165252	Elec. 47μF 25V
C113, C213	5170360000	Mylar 0.0022μF 100V 5%
C114, C214	5171862000	Mylar 0.018μF 100V 5%
C115, C215	5172208000	Ceramic 47pF 50V
C116, C216	5260253650	Elec. 4.7μF 25V BP
C117, C217	5172826000	Polyst. 820pF 50V 5%
C118, C218	5170358000	Mylar 0.0018μF 100V 5%
C119, C219	5172214000	Ceramic 150pF 50V
C120, C220	5260253650	Elec. 4.7μF 25V BP
C121, C221	5260253650	Elec. 4.7μF 25V BP
C122, C222	5172200000	Ceramic 10pF 50V
C123, C223	5260253650	Elec. 4.7μF 25V BP
C124, C224	5260253650	Elec. 4.7μF 25V BP
C125	5260163452	Elec. 22μF 25V
C126	5260163452	Elec. 22μF 25V
C127, C227	5172200000	Ceramic 10pF 50V
C128, C228	5260255150	Elec. 10μF 25V BP
C129	5260160750	Elec. 1μF 50V
C131, C231	5172826000	Polyst. 820pF 50V 5%
C132, C232	5260165252	Elec. 47μF 25V
C133, C233	5260253650	Elec. 4.7μF 25V BP
VARIABLE RESISTORS		
R108, R208	5150156000	Semi-fixed 50kΩ (B)
R117, R217	5150156000	Semi-fixed 50kΩ (B)
R135, R235	5150155000	Semi-fixed 20kΩ (B)
R143, R243	5150156000	Semi-fixed 50kΩ (B)
R155, R255	5150156000	Semi-fixed 50kΩ (B)

REF. NO.	PARTS NO.	DESCRIPTION
R157, R257	5150156000	Semi-fixed 50kΩ (B)
R159, R259	5150156000	Semi-fixed 50kΩ (B)
MISCELLANEOUS		
U111, U112	5242107600	Resistor Array, 5.6kΩ x 8
U113, U114	5242107700	Resistor Array, 43kΩ x 8
U115, U116	5293003300	Complex Array, D x 2 + 33kΩ
U117~U130	5242109500	Resistor Array, 10MΩ x 2 + 33kΩ
U131, U132	5293003400	Complex Array, D x 2 + 1kΩ x 2
RT101, RT201	5143128000	Thermistor, 55C34
L101, L201	5180107000	Coil, Choke; 1.2 mH
P101	5336126600	Connector Plug, 6P (WHT)
P102	5336137300	Connector Plug, 3P (BLK)
P103, P104	5336135200	Connector Plug, 2P (RED)
P105	5336145200	Connector Plug, 2P (YEL)
P106	5336126400	Connector Plug, 4P (WHT)
P107	5336126200	Connector Plug, 2P (WHT)
P109	5336126200	Connector Plug, 2P (WHT)
P110, P111	5336137200	Connector Plug, 2P (BLK)
P112	5336135200	Connector Plug, 2P (RED)
P113	5336135600	Connector Plug, 6P (RED)
P114	5336126200	Connector Plug, 2P (WHT)
P115, P116	5336137200	Connector Plug, 2P (BLK)
5544750000		Pin, Combination (6 used)

REC AMPL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200101000	PCB Assy [J, GE, E, UK, A]
	5200101010	PCB Assy [US, C]
	5210101001	PCB [J, GE, E, UK, A]
	5210101101	PCB [US, C]
IC's		
U452	5220015900	HD14011BP
U453	5232251100	DTA-124N
U454	5232251200	DTA-124N
U455~U461	5232251000	DTA-124N
U501, U501	5220416200	M5218L
U502	5220416200	M5218L
U504, U504	5232251000	Transistor Array, LB1275T
TRANSISTORS		
Q451	5230016100	2SA950Y
Q452	5042467000	2SC1317R
Q501, Q601	5232005800	FET 2SK117GR
Q502, Q602	5232005800	FET 2SK117GR
Q503, Q603	5232005800	FET 2SK117GR
Q504, Q604	5232005800	FET 2SK117GR
Q505, Q605	5230775000	2SC2878B
Q506, Q606	5230775000	2SC2878B
Q507, Q607	5230775000	2SC2878B
Q508, Q608	5230775000	2SC2878B
Q509, Q609	5230775000	2SC2878B
Q510, Q610	5230775000	2SC2878B
Q511, Q611	5230775000	2SC2878B
Q512, Q612	5230775000	2SC2878B
Q513, Q613	5230775000	2SC2878B
Q514, Q614	5230775000	2SC2878B
Q515, Q615	5230775000	2SC2878B
Q516, Q616	5230775000	2SC2878B
Q517, Q617	5230775000	2SC2878B
Q518, Q618	5230775000	2SC2878B
Q519, Q619	5230775000	2SC2878B
Q520, Q620	5230775000	2SC2878B
Q521, Q621	5231758500	2SD1140
DIODES		
D451~453	5224015020	1SS133T-77
D501, D601	5224015020	1SS133T-77
D502, D602	5224015020	1SS133T-77
D503, D603	5224015020	1SS133T-77
D504, D604	5224015020	1SS133T-77
CARBON RESISTORS		
All resistors are rated $\pm 5\%$ tolerance and 1/8 watt unless otherwise noted.		
R451	5240030620	10k Ω
R452	5240030220	6.8k Ω
R453	5240032220	47k Ω
R454	5240028220	1k Ω
R455	5240029020	2.2k Ω
R456	5240024620	33 Ω
R457	5240029020	2.2k Ω
R466, R466	5240031020	15k Ω
R479~R481	5240033020	100k Ω
R482	5240026020	120 Ω
R483	5240031020	15k Ω
R486, R487	5240027020	330 Ω
R488	5240025820	100 Ω

REF. NO.	PARTS NO.	DESCRIPTION
R501, R601	5240032820	82k Ω
R502, R602	5240031820	33k Ω
R503, R603	5240033020	100k Ω
R504, R604	5240033020	100k Ω
R505, R605	5240031220	18k Ω
R506, R606	5240028220	1k Ω
R507, R607	5240033020	100k Ω
R508, R608	5240029420	3.3k Ω
R509, R609	5240030220	6.8k Ω
R510, R610	5240031820	33k Ω
R511, R611	5240026620	220 Ω
R512, R612	5240026620	220 Ω
R513, R613	5240030620	10k Ω
R514, R614	5240030820	12k Ω
R515, R615	5240031020	15k Ω
R516, R616	5240030620	10k Ω
R517, R617	5240030820	12k Ω
R518, R618	5240031020	15k Ω
R519, R619	5240031220	18k Ω
R520, R620	5240029820	4.7k Ω
R521, R621	5240026820	270 Ω
R522, R622	5240030620	10k Ω
R523, R623	5240026820	270 Ω
R524, R624	5240030620	10k Ω
R525, R625	5240026420	180 Ω
R527, R627	5240028820	1.8k Ω
R528, R628	5240028220	1k Ω
R529, R629	5240028220	1k Ω
R530, R630	5240033020	100k Ω
R531, R631	5240030620	10k Ω
R532, R632	5240027420	470 Ω
R533, R633	5240030620	10k Ω
R534	5240026620	220 Ω
R535	5240026620	220 Ω
R536, R636	5240026420	1.2k Ω
R537, R637	5240028820	1.8k Ω
R5348, R638	5240028820	1.8k Ω
R539, R639	5240030620	10k Ω
R540, R640	15183542000	3.3 Ω 1/4W Nonflammable
R541, R641	5240024220	22 Ω
R543, R643	5240028220	1k Ω
R544, R644	5240028620	1.5k Ω
R545, R645	5240028220	1k Ω
R546, R646	5240023420	10 Ω
R547, R647	5240027420	470 Ω
R548, R648	5240029820	4.7k Ω
R554, R654	5240032220	47k Ω
R558, R658	5240033020	100k Ω
R559, R659	5240032220	47k Ω
R560, R660	5240032220	47k Ω
R561, R661	5240032220	47k Ω
R562, R662	5240032220	47k Ω
R563, R663	5240032220	47k Ω
R564, R664	5240032220	47k Ω
R565, R665	5240029820	4.7k Ω
R566, R666	5240029820	4.7k Ω
R567, R667	5240029820	4.7k Ω
R568, R668	5240029820	4.7k Ω
R569, R669	5240029820	4.7k Ω
R570, R670	5240029820	4.7k Ω

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

REF. NO.	PARTS NO.	DESCRIPTION
R571, R671	5240032220	47kΩ
R572, R672	5240032220	47kΩ
R573, R673	5240032220	47kΩ
CAPACITORS		
C452	5260165352	Elec. 47μF 35V
C453	5054668100	Dip. Tant. 0.47μF 35V
C454	5054674100	Dip. Tant. 4.7μF 35V
C456	5260164252	Elec. 33μF 16V
C457	5260165252	Elec. 47μF 25V
C458	5260165252	Elec. 47μF 25V
C461	5260162050	Elec. 4.7μF 35V
C501, C601	5171876000	Mylar 0.068μF 100V 5%
C502, C602	5263107610	Polypro. 820pF 100V 5%
C503, C603	5260253650	Elec. 4.7μF 25V BP
C504, C604	5170364000	Mylar 0.0033μF 100V 5%
C505, C605	5260165252	Elec. 47μF 25V
C506, C606	5260165252	Elec. 47μF 25V
C507, C607	5172236000	Ceramic 0.01μF 50V
C508, C608	5172236000	Ceramic 0.01μF 50V
C509, C609	5260255150	Elec. 10μF 25V BP
C510, C610	5170370000	Mylar 0.0056μF 100V 5%
C511, C611	5170370000	Mylar 0.0056μF 100V 5%
C512, C612	5170366000	Mylar 0.0039μF 100V 5%
C513, C613	5171862000	Mylar 0.018μF 100V 5%
C514, C614	5171862000	Mylar 0.018μF 100V 5%
C516, C616	5170360000	Mylar 0.0022μF 100V 5%
C517, C617	5260258510	Elec. 47μF 16V BP
C518, C618	5263163513	Meta. 0.3μF 50V 5%
C519, C619	5263107610	Polypro. 820pF 100V 5%
C520, C620	5054668100	Dip. Tant. 0.47μF 35V
C521, C621	5263107010	Polypro. 470pF 100V 5%
C522, C622	5263105410	Polypro. 100pF 100V 5%
C523, C623	5054674100	Dip. Tant. 4.7μF 35V
C524, C624	5054674100	Dip. Tant. 4.7μF 35V
C525, C625	5170370000	Mylar 0.0056μF 100V 5%
C526, C626	5260251750	Elec. 1μF 50V BP
C527	5260165252	Elec. 47μF 25V
C528	5260165252	Elec. 47μF 25V
C529	5172236000	Ceramic 0.01μF 50V
C530	5172236000	Ceramic 0.01μF 50V
VARIABLE RESISTORS		
R590, R690	5053352000	Semi-fixed, 47kΩ (B)
R591, R691	5053433000	Semi-fixed, 68kΩ (B)
R592, R692	5053347000	Semi-fixed, 150kΩ (B)
R593, R693	5053359000	Semi-fixed, 3.3kΩ (B)
R594, R694	5053354000	Semi-fixed, 15kΩ (B)
R595, R695	5053433000	Semi-fixed, 68kΩ (B)
R596, R696	5053346000	Semi-fixed, 4.7kΩ (B)
R597, R697	5053348000	Semi-fixed, 10kΩ (B)
COILS		
L451	5160107000	Choke, 1.2mH
L501, L601	5056635000	REC EQ, 8mH
L502, L602	5056635000	REC EQ, 8mH
L503, L603	5056264000	REC EQ, 1.2mH
L504, L604	5160107000	Choke, 1.2mH
L505, L605	5056659000	Trap, 3mH
L506, L606	5160107000	Choke, 1.2mH

REF. NO.	PARTS NO.	DESCRIPTION
MISCELLANEOUS		
U451	5292202000	Bias OSC Unit
U462	5242106100	Resistor Array, 100kΩ x 6
U463	5242106300	Resistor Array, 10kΩ x 6
U464	5242106100	Resistor Array, 100kΩ x 6
U503, U603	5292202100	Bias Ampl. Unit
U505, U605	5242106200	Resistor Array, 10kΩ x 3 + 100kΩ x 3
P501	5336129000	Connector Plug, 10P (WHT)
P502	5336126800	Connector Plug, 8P (WHT)
P503	5336128400	Connector Plug, 4P (WHT)
P504	5336128500	Connector Plug, 5P (WHT)
P505	5336140000	Connector Plug, 10P (RED)
P506	5336128600	Connector Plug, 6P (WHT)
P507	5336128200	Connector Plug, 2P (WHT)
P508	5336139400	Connector Plug, 4P (RED)
P509	5336135800	Connector Plug, 8P (RED)
P510	5336135200	Connector Plug, 2P (RED)
P511	5336135600	Connector Plug, 6P (RED)
P512	5336137200	Connector Plug, 2P (BLK)
P513	5336135500	Connector Plug, 5P (RED)
P514	5336137400	Connector Plug, 4P (BLK)
P501	5336142000	Connector Plug, 10P (BLK)
	5544750000	Pin, Combination (8 used)

COUNTER PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200101201	PCB Assy [J, GE, E, UK, A]
	5200101211	PCB Assy [US, C]
	5210101203	PCB [J, GE, E, UK, A]
	5210101303	PCB [US, C]
	IC's	
U1	5220804000	HD44750A85
U2	5232250500	Transistor Array, M54560P
U3	5232250700	Transistor Array, M54533P
U4	5147055000	NJM2403D
U5	6048661000	M54517P
U6	5232250500	Transistor Array, M54560P
U7	5220015900	HD14011BP
U8	5220019800	HD14584B
U9	5220017100	HD14068BP
U10	5232250700	Transistor Array, M54533P
U11	5232250500	Transistor Array, M54560P
U15	5220015900	HD14011BP
U16	5220011500	HD74LS26P
	TRANSISTORS	
Q1	5042490000	2SA684Q
Q2	5042553000	2SA733P
Q3	5145091000	2SC945AK
	DIODES	
D1~D7	5224012920	1S2473FT
D9	5224012920	1S2473FT
D11~D17	5224012920	1S2473FT
D18~D21	5224540601	Zener RD5.6EB2
	CARBON RESISTORS	
All resistor are rated $\pm 5\%$ tolerance and $\frac{1}{4}$ watt.		
R2	5181500000	5.6k Ω
R3	5181554000	1M Ω
R4, R5	5181506500	10k Ω
R6	5181500000	5.6k Ω
R7	5181462000	150 Ω
R8	5181532000	120k Ω
R9	5181476000	560 Ω
R10	5181482000	1k Ω
R11	5181486000	1.5k Ω
R12	5181500000	5.6k Ω
R13, R14	5181498000	4.7k Ω
R18	5181486000	1.5k Ω
R19	5181482000	1k Ω
R20	5181524000	56k Ω
R21	5181482000	1k Ω
R22	5181524000	56k Ω
R23	5181482000	1k Ω
R24	5181524000	56k Ω
R25	5181482000	1k Ω
R26	5181524000	56k Ω
R27~R29	5181506000	10k Ω
R30~R33	5181482000	1k Ω
R34	5181498000	4.7k Ω
R35	5181496000	3.9k Ω
R36	5181434000	10 Ω
R40	5181498000	4.7k Ω
R41	5181470000	330 Ω

REF. NO.	PARTS NO.	DESCRIPTION
	CAPACITORS	
C1, C2	5260162550	Elec. 10 μ F 16V
C3	5173433000	Ceramic 0.01 μ F 50V
C4	5266033100	Dip. Tant. 10 μ F 10V
C5	5260163452	Elec. 22 μ F 25V
C6	5260161150	Elec. 2.2 μ F 50V
C7	5173433000	Ceramic 0.01 μ F 50V
C8, C9	5054745000	Dip. Mica 220pF 50V
C10~C13	5171856000	Mylar 0.01 μ F 100V 5%
C14, C15	5173433000	Ceramic 0.01 μ F 50V
C17	5266033100	Dip. Tant. 10 μ F 10V
C18	5260165052	Elec. 47 μ F 10V
C19	5260160750	Elec. 1 μ F 50V
C20	5173433000	Ceramic 0.01 μ F 50V
	MISCELLANEOUS	
U12	5242114900	Resistor Array, 100k Ω x 7
U13, U14	5242114800	Resistor Array, 100k Ω x 6
U17	5242111500	Resistor Array, 10k Ω x 8
CR1	5347002400	Ceramic Resonator, KBR-480B
L1	5160082000	Coil, Choke; 10 μ H
P1	5336128700	Connector Plug, 7P(WHT)
P2	5336141500	Connector Plug, 5P(BLK)
P3	5336147300	Connector Plug, 3P(YEL)
P4	5336139600	Connector Plug, 6P(RED)
P5	5336135400	Connector Plug, 4P(RED)
P6	5336128500	Connector Plug, 5P(WHT)
P7	5336135300	Connector Plug, 2P(RED)
P8	5336139700	Connector Plug, 7P(RED)
P9	5336141300	Connector Plug, 3P(BLK)
P10	5336137400	Connector Plug, 4P(BLK)
P11	5336128300	Connector Plug, 3P(WHT)
P12	5336126200	Connector Plug, 2P(WHT)
P13	5336126400	Connector Plug, 4P(WHT)
TP1, TP2	5544750000	Pin, Combination

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

DOLBY PCB ASSY

REF. NO.	PART NO.	DESCRIPTION
	5200101600	PCB Assy [J, GE, E, UK, A]
	5200101610	PCB Assy [US, C]
	5210101601	PCB [J, GE, E, UK, A]
	5210101701	PCB [US, C]
IC's		
U301, U401	5220417500	NE654N
U302, U402	5220417400	NE652N
U304, U404	5220417400	NE652N
U305, U405	5042738000	NJM4558D
TRANSISTORS		
Q301, Q401	5145036000	2SC945LK
Q302, Q402	5145036000	2SC945LK
Q303	5145150000	2SA1015GR
Q304, Q404	5145151000	2SC1815GR
Q305	5145150000	2SA1015GR
Q306, Q406	5145151000	2SC1815GR
Q307, Q407	5145151000	2SC1815GR
Q308, Q408	5145151000	2SC1815GR
Q309, Q409	5145151000	2SC1815GR
DIODES		
D301, D401	5224541501	Zener, RD7.5EB2
CARBON RESISTORS		
All resistors are rated ±5% tolerance and 1/8 watt unless otherwise noted.		
R302, R402	5240029420	3.3kΩ
R303, R403	5240029420	3.3kΩ
R304, R404	5240029120	2.2kΩ
R305, R405	5240030020	5.6kΩ
R306, R406	5240029420	3.3kΩ
R307, R407	5240029420	3.3kΩ
R308, R408	5240029420	3.3kΩ
R309, R409	5240029420	3.3kΩ
R310, R410	5240028220	1kΩ
R311, R411	5240032620	68kΩ
R312	5240029920	5.1kΩ
R313	5240029020	2.2kΩ
R314	5240029820	4.7kΩ
R315	5240032220	47kΩ
R316	5240030820	12kΩ
R317, R417	5240034220	330kΩ
R318, R418	5240032720	75kΩ
R319, R419	5240034420	390kΩ
R320, R420	5240034420	390kΩ
R321, R421	5240034220	330kΩ
R322, R422	5240032820	82kΩ
R323, R423	5240033020	100kΩ
R324, R424	5240033020	100kΩ
R325, R425	5240033020	100kΩ
R326	51518354000	10Ω %W Nonflammable
R327	5240030620	10kΩ
R328	5240030620	10kΩ
R330	5240031820	33kΩ
R331	5240031820	33kΩ
R332	5240032820	100kΩ
R333, R433	5240031420	22kΩ

REF. NO.	PARTS NO.	DESCRIPTION
R334, R434	5240029420	3.3kΩ
R335, R435	5240029420	3.3kΩ
R336, R436	5240028220	1kΩ
R337, R437	5240029420	3.3kΩ
R338, R438	5240029420	3.3kΩ
R339	5240035420	1MΩ
R340	5240033020	100kΩ
R341, R441	5240029020	2.2kΩ
R342, R442	5240029920	5.1kΩ
R343, R443	5240032620	68kΩ
R344, R444	5240031420	22kΩ
R345, R445	5240031420	22kΩ
R346, R446	5240029820	4.7kΩ
R347, R447	5240032220	47kΩ
R348, R448	5240030820	12kΩ
R349, R449	5240032720	75kΩ
R350, R450	5240034220	330kΩ
R351, R451	5240034420	390kΩ
R352, R452	5240034420	390kΩ
R353, R453	5240034220	330kΩ
R354, R454	5240032820	82kΩ
R355, R455	5240031420	22kΩ
R356, R456	5240031420	22kΩ
R357, R457	5240033020	100kΩ
R358, R458	5240033020	100kΩ
CAPACITORS		
C301, C401	5263162213	Meta. 0.1μF 50V 5%
C302, C402	5260160750	Elec. 1μF 50V
C303, C403	5170358000	Mylar 0.0018μF 100V 5%
C304, C404	5170354000	Mylar 0.0012μF 100V 5%
C305, C405	5170358000	Mylar 0.0018μF 100V 5%
C306, C406	5172208000	Ceramic 47pF 50V
C307, C407	5263161013	Meta. 0.01μF 50V 5%
C308, C408	5260162550	Elec. 10μF 16V
C309, C409	5260160750	Elec. 1μF 50V
C311, C411	5263161613	Meta. 0.033μF 50V
C312, C412	5260162550	Elec. 10μF 16V
C313, C413	5263102110	Polypro. 0.0047μF 100V 5%
C314, C414	5263102110	Polypro. 0.0047μF 100V 5%
C315, C415	5263161613	Meta. 0.033μF 50V 5%
C316, C416	5263162213	Meta. 0.1μF 50V 5%
C317, C417	5263162413	Meta. 0.15μF 50V 5%
C318, C418	5263162213	Meta. 0.1μF 50V 5%
C319, C419	5263161813	Meta. 0.033μF 50V 5%
C320, C420	5263162013	Meta. 0.068μF 50V 5%
C321, C421	5260162550	Elec. 10μF 16V
C322, C422	5263162613	Meta. 0.22μF 50V 5%
C323, C423	5263161813	Meta. 0.047μF 50V 5%
C324, C424	5173054800	Elec. 220μF 16V
C326	5260165252	Elec. 47μF 25V
C330, C431	5260160750	Elec. 1μF 50V
C331, C431	5260162550	Elec. 10μF 16V
C332	5260163452	Elec. 22μF 25V
C333, C433	5170358000	Mylar 0.0018μF 100V 5%
C334, C434	5263161013	Meta. 0.01μF 50V 5%
C335, C435	5263161613	Meta. 0.033μF 50V 5%
C336, C436	5260162550	Elec. 10μF 16V
C337, C437	5263102110	Polypro. 0.0047μF 100V 5%

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

DBX PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
C338, C438	5263102110	Polypro. 0.0047 μ F 100V 5%
C339, C439	5263161613	Meta. 0.033 μ F 50V 5%
C340, C440	5263162213	Meta. 0.1 μ F 50V 5%
C341, C441	5263162413	Meta. 0.15 μ F 50V 5%
C342, C442	5263162213	Meta. 0.1 μ F 50V 5%
C343, C563	5263161613	Meta. 0.033 μ F 50V 5%
C344, C444	5263162013	Meta. 0.068 μ F 50V 5%
C345, C445	5260162550	Elec. 10 μ F 16V
C346, C446	5263162613	Meta. 0.22 μ F 50V 5%
C347, C447	5263161813	Meta. 0.047 μ F 50V 5%
MISCELLANEOUS		
U303, U403	5292802800	Filter, Low-pass
L301, L401	5286010200	Coil, Choke; 36mH
L302, L402	5286010200	Coil, Choke; 36mH
P301	5336128400	Connector Plug, 4P(WHT)
P302	5336139400	Connector Plug, 4P(RED)
P303	5336147400	Connector Plug, 4P(YEL)
P304	5336141400	Connector Plug, 4P(BLK)
P305	5336128300	Connector Plug, 3P(WHT)
P306	5336128200	Connector Plug, 2P(WHT)
TP1, TP2	5544750000	Pin, Combination

REF. NO.	PARTS NO.	DESCRIPTION
	5200101800	PCB Assy [J, GE, E, UK, A]
	5200101810	PCB Assy [US, C]
	5210101801	PCB [J, GE, E, UK, A]
	5210101901	PCB [US, C]
IC's		
U700, U800	5220414501	μ PC1252H2
U701, U801	5220414601	μ PC1253H2
U702	5042738000	NJM4558D
U703, U803	5220414501	μ PC1252H2
U704, U804	5220414601	μ PC1253H2
U705	5042738000	NJM4558D
U706	6048639000	NJM78L12A
U707	5220418600	LM79L12ACZ
TRANSISTORS		
Q700, Q800	5145151000	2SC1815GR
Q701, Q801	5145151000	2SC1815GR
Q702, Q802	5145151000	2SC1815GR
Q703, Q803	5145151000	2SC1815GR
Q704, Q804	5232005800	FET 2SK117GR
DIODES		
D700, D800	5224015020	1SS133T-77
D702	5224013210	DS135D
CARBON RESISTORS		
All resistors are rated $\pm 5\%$ tolerance and 1/8 watt unless otherwise noted.		
R700, R800	5240175800	1.5M Ω $\frac{1}{8}$ w
R701, R801	5240025820	100 Ω
R702, R802	5240031720	30k Ω
R703, R803	5240033320	130k Ω
R704, R804	5240030020	5.6k Ω
R705, R805	5240031820	33k Ω
R706, R806	5240030620	10k Ω
R707, R807	5240028620	3.9k Ω
R708, R808	5240030620	10k Ω
R709, R809	5240025120	51 Ω
R710, R810	5240033020	100k Ω
R712, R812	5240030620	10k Ω
R713, R813	5240031820	33k Ω
R714, R814	5240025820	100 Ω
R715, R815	5240033020	100k Ω
R716, R816	5240032920	91k Ω
R717, R817	5240029820	4.7k Ω
R718, R818	5240031820	33k Ω
R719, R819	5240031820	33k Ω
R720, R820	5240030620	6.8k Ω
R721, R821	5240029820	4.7k Ω
R722, R822	5183168000	10M Ω $\frac{1}{8}$ w
R723, R823	5240033020	100k Ω
R725, R825	5240029420	3.3k Ω
R726, R826	5240031820	33k Ω
R728, R828	5240033420	150k Ω
R729, R829	5181558000	1.5M Ω $\frac{1}{8}$ w
R730, R830	5240033820	220k Ω
R731, R831	5240023420	10 Ω
R732, R832	5240024220	22 Ω

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

REF. NO.	PARTS NO.	DESCRIPTION		
R733, R833	5183168000	10MΩ	1/4W	
R734, R834	5240028220	1kΩ		
R735, R835	5240031420	22kΩ		
R736, R836	5240032020	39kΩ		
R740, R840	5240175800	1.5MΩ	1/4W	
R741, R841	5240025820	100Ω		
R742, R842	5240031720	30kΩ		
R743, R843	5240033320	130kΩ		
R744, R844	5240030020	5.6kΩ		
R745, R845	5240031820	33kΩ		
R746, R846	5240030620	10kΩ		
R747, R847	5240029820	3.9kΩ		
R748, R848	5240030620	10kΩ		
R749, R849	5240025120	51Ω		
R750, R850	5240033020	100kΩ		
R752, R852	5240030620	10kΩ		
R753, R853	5240031820	33kΩ		
R754, R854	5240025820	100Ω		
R755, R855	5240033020	100kΩ		
R856, R856	5240032920	91kΩ		
R757, R857	5240029820	4.7kΩ		
R758, R858	5240031820	33kΩ		
R759, R859	5240031820	33kΩ		
R760, R860	5240030220	6.8kΩ		
R761, R861	5240029820	4.7kΩ		
R762, R862	5183168000	10MΩ	1/4W	
R763, R863	5240033020	100kΩ		
R764, R864	5240033020	100kΩ		
R765, R865	5240029420	3.3kΩ		
R766, R866	5240031820	33kΩ		
R768, R868	5240033420	150kΩ		
R769, R869	5181558000	1.5MΩ	1/4W	
R770, R870	5240033820	220kΩ		
R771, R871	5240023420	10Ω		
R772, R872	5240024220	22Ω		
R773, R873	5183168000	10MΩ	1/4W	
R774, R874	5240028220	1kΩ		
R775, R875	5240031420	22kΩ		
R776, R876	5240032020	39kΩ		
R778	5240030620	10kΩ		
R779	5240030620	10kΩ		
R780	5240031720	30kΩ		
CAPACITORS				
C700, C800	5263162213	Meta.	0.1μF	50V 5%
C701, C801	5263162213	Meta.	0.1μF	50V 5%
C702, C802	5263163513	Meta.	0.3μF	50V 5%
C703, C803	5263161013	Meta.	0.01μF	50V 5%
C704, C804	5263105410	Polypro.	100pF	100V 5%
C705, C805	5263105410	Polypro.	100pF	100V 5%
C706, C806	5260067050	Elec.	10μF	16V 8P
C707, C807	5263162213	Meta.	0.1μF	50V 5%
C708, C808	5263162213	Meta.	0.1μF	50V 5%
C709, C809	5170364000	Mylar	0.0033μF	100V 5%
C710, C810	5170364000	Mylar	0.0033μF	100V 5%
C711, C811	5263106610	Polypro.	330pF	100V 5%
C712, C812	5263162213	Meta.	0.1μF	50V 5%
C713, C813	5263161013	Meta.	0.01μF	50V 5%
C714, C814	5263163413	Meta.	1μF	50V 5%

REF. NO.	PARTS NO.	DESCRIPTION		
C715, C815	5260227010	Elec.	10μF	35V (LL)
C716, C816	5260162550	Elec.	10μF	16V
C717	5260185252	Elec.	47μF	25V
C718	5260185252	Elec.	47μF	25V
C720, C820	5263162213	Meta.	0.1μF	50V 5%
C721, C821	5263162213	Meta.	0.1μF	50V 5%
C722, C822	5263163513	Meta.	0.3μF	50V 5%
C723, C823	5263106110	Polypro.	200pF	100V 5%
C724, C824	5263161013	Meta.	0.01μF	50V 5%
C725, C825	5263105410	Polypro.	100pF	100V 5%
C726, C826	5260067050	Elec.	10μF	16V 8P
C727, C827	5263162213	Meta.	0.1μF	50V 5%
C728, C828	5263162213	Meta.	0.1μF	50V 5%
C729, C829	5170364000	Mylar	0.0033μF	100V 5%
C730, C830	5170364000	Mylar	0.0033μF	100V 5%
C731, C831	5263106610	Polypro.	330pF	100V 5%
C732, C832	5263162213	Meta.	0.1μF	50V 5%
C733, C833	5263161013	Meta.	0.01μF	50V 5%
C734, C834	5263163413	Meta.	1μF	50V 5%
C735, C835	5260227010	Elec.	10μF	35V (LL)
C736, C836	5260162550	Elec.	10μF	16V
C737, C837	5260160750	Elec.	1μF	50V
C738	5173433000	Ceramic	0.01μF	50V
VARIABLE RESISTORS				
R711, R811	5150094000	Semi-fixed, 500kΩ(B)		
R727, R827	5150159000	Semi-fixed, 500kΩ(B)		
R737, R837	5150094000	Semi-fixed, 500kΩ(B)		
R751, R851	5150094000	Semi-fixed, 500kΩ(B)		
R767, R867	5150159000	Semi-fixed, 500kΩ(B)		
R777, R877	5150094000	Semi-fixed, 500kΩ(B)		
MISCELLANEOUS				
P700	5336128400	Connector Plug, 4P(WHT)		
P701	5336139400	Connector Plug, 4P(RED)		
P702	5336147400	Connector Plug, 4P(YEW)		
P703	5336141400	Connector Plug, 4P(BLK)		
P704	5336128200	Connector Plug, 2P(WHT)		
P705	5336128300	Connector Plug, 3P(WHT)		
TP1~TP5	5544750000	Pin, Combination		

SYSTEM CONTROL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200101400	PCB Assy [J, GE, E, UK, A]
	5200101410	PCB Assy [US, C]
	5210101402	PCB [J, GE, E, UK, A]
	5210101502	PCB [US, C]
IC's		
U400	5232250500	Transistor Array, M54560P
U401	5220418000	LA2000
U402	5220019700	LC7800
U403	5220418500	M54545L
U404	5232250500	Transistor Array, M54560P
U405	5220804100	MB8841M-G-1110M
U406	6048661000	M54617P
U407	5220020500	LB1475
U408	5232251200	DTC-124N
TRANSISTORS		
Q400~Q402	5230506700	2SB941Q
Q403	5231759200	2SD1285P
Q404	5230779720	2SC945A-KA
Q405	5230017920	2SA733A-PB
Q406~Q408	5230779720	5SC945A-KA
Q409, Q410	5230777700	2SC2120Y
Q411	5230018100	2SA950Y
Q412~Q414	5230779720	2SC945A-KA
Q416~Q417	5230014000	2SA1020Y
Q418~Q422	5230779720	2SC945A-KA
Q423~Q432	5230017920	2SA733A-PB
Q433	5230779720	2SC945A-KA
DIODES		
D400	5224540901	Zener, RD6.2EB2
D401	5224539701	Zener, RD4.2EB2
D402	5224543101	Zener, RD12EB2
D43~D406	5224013210	DS135D
D407	5224540901	Zener, RD6.2EB2
D408, D409	5143118000	1S2473HJ
D410	5224543401	Zener, RD13EB2
D411	5143118000	1S2473HJ
D412	5224013210	DS135D
D414~D416	5143118000	1S2473HJ
D417	5225005400	LED, SLP-135B(RED)
D418	5143118000	1S2473HJ
D419	5224542101	Zener, RD9.1EB2
D420~D423	5143118000	1S2473HJ
D424, D425	5224013210	DS135D
D427	5224539301	Zener, RD3.6EB2
D428, D429	5224012920	1S2473FT
RESISTORS		
All resistors are rated $\pm 5\%$ tolerance, $\frac{1}{4}$ watt and are carbon type unless otherwise noted.		
R413	5181458000	100 Ω
R414	5181490000	2.2k Ω
R416	5181474000	470 Ω
R417	5181506000	10k Ω
R418	5181462000	150 Ω

REF. NO.	PARTS NO.	DESCRIPTION
R419	5181478000	680 Ω
R420	5181506000	10k Ω
R421	5184298000	1.8k Ω
R422	5184576000	2.7k Ω
R423	5184307000	10 Ω
R424	5181482000	1k Ω
R425	5181474000	470 Ω
R426, R427	5181506000	10k Ω
R428	5181482000	1k Ω
R429	5181506000	10k Ω
R430	5181496000	3.9k Ω
R431	5181482000	1k Ω
R432, R433	5181514000	22k Ω
R434	5181474000	470 Ω
R435	5181486000	1.5k Ω
R437	5181506000	10k Ω
R438	5181518000	33k Ω
R440, R441	5181506000	10k Ω
R442	5181474000	470 Ω
R443	5181514000	22k Ω
R444	5181474000	470 Ω
R445	5181514000	22k Ω
R446, R447	5181482000	1k Ω
R449	5181540000	270k Ω
R450~R453	5181506000	10k Ω
R454	5181482000	1k Ω
R455	5181498000	4.7k Ω
R456	5181491000	2.4k Ω
R457	5181534000	150k Ω
R458	5181498000	4.7k Ω
R459	5181462000	150 Ω
R462	5181534000	150k Ω
R463	5181468000	270 Ω
R464	5181506000	10k Ω
R465~R472	5181510000	15k Ω
R473	5181482000	1k Ω
R474~R476	5181506000	10k Ω
R477~R484	5181530000	100k Ω
R485	5181476000	560 Ω
R486	5181506000	10k Ω
	CAPACITORS	
C400	5260162050	Elec. 4.7 μ F 35V
C401	5172236000	Ceramic 0.01 μ F 50V
C402	5260165252	Elec. 4.7 μ F 25V
C403, C404	5172236000	Ceramic 0.01 μ F 50V
C405	5260162050	Elec. 4.7 μ F 35V
C406, C407	5172236000	Ceramic 0.01 μ F 50V
C408	5260162050	Elec. 4.7 μ F 35V
C409	5172236000	Ceramic 0.01 μ F 50V
C410	5260162050	Elec. 4.7 μ F 35V
C411	5172236000	Ceramic 0.01 μ F 50V
C412	5260162050	Elec. 4.7 μ F 35V
C413	5172236000	Ceramic 0.01 μ F 50V
C414, C415	5260162050	Elec. 4.7 μ F 35V
C416	5054666100	Dip. Tant. 0.22 μ F 35V
C417, C418	5260160550	Elec. 0.47 μ F 50V
C419, C420	5260162050	Elec. 4.7 μ F 35V
C421	5172236000	Ceramic 0.01 μ F 50V
C423, C424	5172236000	Ceramic 33pF 50V
C425	5260162050	Elec. 4.7 μ F 35V
C426	5172236000	Ceramic 0.01 μ F 50V

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 [A]: AUSTRALIA [J]: JAPAN

AUTO STOP PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
C427	5170352000	Mylar 0.001 μ F 100V
VARIABLE RESISTORS		
R410~R412	5280170802	Semi-fixed, 200 Ω (B)
R448	5150155000	Semi-fixed, 20k Ω (B)
MISCELLANEOUS		
CR40	5347001000	Ceramic Resonator, K8R4.0M
L400	5160094000	Coil, Choke; 100 μ H
P410	5336141700	Connector Plug, 7P(BLK)
P411	5336139300	Connector Plug, 3P(RED)
P412	5336139800	Connector Plug, 8P(RED)
P413	5336128400	Connector Plug, 4P(WHT)
P414	5336128800	Connector Plug, 8P(WHT)
P415	5336128200	Connector Plug, 2P(WHT)

REF. NO.	PARTS NO.	DESCRIPTION
	5200119100	PCB Assy
	5210119101	PCB
U821	6048948000	IC, MC14538B
U824	5232251200	Digital Transistor, DTC-124N
Q821~Q823	5145091000	Transistor, 2SC945AK
R821	5240026820	Carbon Res., 270 Ω 1/8W 5%
R822	5240033020	Carbon Res., 100k Ω 1/8W 5%
R823	5240030820	Carbon Res., 12k Ω 1/8W 5%
R824	5240026820	Carbon Res., 270 Ω 1/8W 5%
R825	5240033020	Carbon Res., 100k Ω 1/8W 5%
R826	5240030820	Carbon Res., 12k Ω 1/8W 5%
R827	5240033420	Carbon Res., 150k Ω 1/8W 5%
C821, C822	5260162550	Elec. Cap., 10 μ F 16V
P821	5336128600	Connector Plug, 6P(WHT)

RESET PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200121700	PCB Assy
	5210121100	PCB
IC		
U831	6048948000	MC14538B
TRANSISTORS		
Q831, Q832	5145091000	2SC945AK
DIODES		
D831, D832	5042517000	1S2473VE
D833	5224539301	Zener, RD3.6EB2
CARBON RESISTORS		
All resistors are rated $\pm 5\%$ tolerance and 1/8 watt.		
R831~R833	5240030620	10k Ω
R834	5240025820	100 Ω
R835	5240028220	1k Ω
R836	5240026820	270 Ω
R837	5240033020	100k Ω
R838	5240030620	10k Ω
R839, R840	5240033020	100k Ω
R841	5240030620	10k Ω
CAPACITORS		
C831	5173435000	Ceramic 0.047 μ F 50V
C832	5172236000	Ceramic 0.01 μ F 50V
C833	5263162223	Meta. 0.1 μ F 50V
C834	5260162150	Elec. 4.7 μ F 50V
P831	5336128500	Connector Plug, 5P(WHT)

AMPL. CONTROL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200102000	PCB Assy [J, GE, E, UK, A]
	5200102010	PCB Assy [US, C]
	5210102003	PCB [J, GE, E, UK, A]
	5210102103	PCB [US, C]
IC's		
U330	5220019700	LC7800
U331	5220804200	HD44750A64
U333	5220015900	HD14011BP
U335	5232250800	Transistor Array, M54516P
U336~U338	6048661000	M54517P
U339	5220016800	HD14049BP
U340	5232251200	DTC-124N
TRANSISTORS		
Q330	5145150000	2SA1015GR
Q334~Q336	5145150000	2SA1015GR
Q337~Q339	5145151000	2SC1815GR
DIODES		
D330	5224015010	1SS133HV
D331	5224013200	DS135D
D332	5224013200	DS135D
D335	5224015010	1SS133HV
CARBON RESISTORS		
All resistors are rated $\pm 5\%$ tolerance and 1/8 watt.		
R319	5240025820	100 Ω
R320	5240031420	22k Ω
R321, R322	5240030620	10k Ω
R323	5240028620	1.5k Ω
R324~R327	5240030620	10k Ω
R328~R330	5240033020	100k Ω
R332	5240032220	47k Ω
R333	5240029820	4.7k Ω
R334	5240029020	2.2k Ω
R335	5240033020	100k Ω
R336, R337	5240030620	10k Ω
R338	5240033020	100k Ω
R339	5240032220	47k Ω
R340	5240030620	10k Ω
R344	5240035420	1M Ω
R345	5240033020	100k Ω
R346	5240032220	47k Ω
R347	5240030620	10k Ω
CAPACITORS		
C330	5260162550	Elec. 10 μ F 16V
C331	5054689100	Dip. Tant. 1 μ F 25V
C332	5172236000	Ceramic 0.01 μ F 50V
C333	5260162050	Elec. 4.7 μ F 35V
C334	5172236000	Ceramic 0.01 μ F 50V
C335	5260165952	Elec. 100 μ F 10V
C336, C337	5172218000	Ceramic 330pF 50V
C339, C340	5054648100	Dip. Tant. 10 μ F 10V
MISCELLANEOUS		
GR33	5347901100	Ceramic Resonator, KBR-400B
U339	5180094900	Coil, Choke, 100 μ H
P330	5336126800	Connector Plug, 8P(WHT)
P331	5336135800	Connector Plug, 8P(RED)
P332	5336126300	Connector Plug, 3P(WHT)

REF. NO.	PARTS NO.	DESCRIPTION
P333	5336135300	Connector Plug, 3P(RED)
P334	5336137800	Connector Plug, 8P(BLK)
P335	5336126900	Connector Plug, 9P(WHT)
P336	5336137300	Connector Plug, 3P(BLK)
P338	5336126400	Connector Plug, 4P(WHT)
P339	5336145300	Connector Plug, 3P(YEL)
P342	5336145200	Connector Plug, 2P(YEL)

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

MIC AMPL. PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200102800	PCB Assy [J, GE, E, UK, A]
	5200102810	PCB Assy [US, C]
	5210102803	PCB [J, GE, E, UK, A]
	5210102903	PCB [US, C]
IC's		
U181, U281	52200411100	NJM4560DX
U182, U282	6048649000	NJM386D
U300	5232251200	DTC-124N
U301	5232251100	DTA-124N
TRANSISTORS		
U180, U280	5232006100	FET 2SK270GR
Q300, Q310	5145185000	2SD655E
Q301	5145151000	2SC1815GR
DIODES		
D300, D310	5224015020	1SS133T-77
D301, D311	5224015020	1SS133T-77
D302	5224015020	1SS133T-77
D303	5224015020	1SS133T-77
D304	5224013210	DS135D
CARBON RESISTORS		
All resistors are rated $\pm 5\%$ tolerance and 1/8 watt.		
R180, R280	5240030620	10k Ω
R181, R281	5240030320	100k Ω
R182, R282	5240029020	2.2k Ω
R183, R283	5240029020	2.2k Ω
R184, R284	5240029420	3.3k Ω
R185, R285	5240025820	100 Ω
R186, R286	5240026520	220 Ω
R187, R287	5240026620	220 Ω
R188, R288	5240026620	220 Ω
R189, R289	5240026620	220 Ω
R190, R290	5240030820	12k Ω
R191, R291	5240028620	1.5k Ω
R192, R292	5240028220	1k Ω
R193, R293	5240030620	10k Ω
R194, R294	5240033020	100k Ω
R195, R295	5240031420	22k Ω
R196, R296	5240027420	470 Ω
R197, R297	5240030620	10k Ω
R198	5240030620	10k Ω
R298	5240032220	47k Ω
R300, R310	5240033020	100k Ω
R301, R311	5240031020	15k Ω
R302, R312	5240021820	2.2 Ω
R303, R313	5240028220	1k Ω
R305	5240030020	5.6k Ω
R306	5240030020	5.6k Ω
R308, R318	5240033020	100k Ω
R309, R319	5240031420	22k Ω
R320, R321	5240028220	1k Ω
R322	5240031820	33k Ω
R323	5240031420	22k Ω
CAPACITORS		
C180, C280	5260253650	Elec. 4.7 μ F 25V BP
C181, C281	5172236000	Ceramic 0.01 μ F 50V

REF. NO.	PARTS NO.	DESCRIPTION
C182, C282	5260162550	Elec. 10 μ F 16V
C183, C283	5172236000	Ceramic 0.01 μ F 50V
C184, C284	5260162550	Elec. 10 μ F 16V
C185, C285	5260165952	Elec. 100 μ F 10V
C186, C286	5260162550	Elec. 10 μ F 16V
C187, C287	5260162550	Elec. 10 μ F 16V
C188, C288	5172208000	Ceramic 47pF 50V
C189, C289	5170360000	Mylar 0.0022 μ F 100V 5%
C190, C290	5260253650	Elec. 4.7 μ F 25V BP
C191, C291	5260253650	Elec. 4.7 μ F 25V BP
C192, C292	5172200000	Ceramic 10pF 50V
C193, C293	5260253650	Elec. 4.7 μ F 25V BP
C300, C310	5260162550	Elec. 10 μ F 16V
C301, C311	5260162550	Elec. 10 μ F 16V
C302, C312	5173071000	Elec. 470 μ F 10V
C303, C313	5173071000	Elec. 470 μ F 10V
C304, C314	5171872000	Mylar 0.047 μ F 100V 5%
C305	5173070000	Elec. 470 μ F 6.3V
VARIABLE RESISTORS		
R199	5150157000	Semi-fixed, 100k Ω (B)
R304	5150156000	Semi-fixed, 50k Ω (B)
R307	5150156000	Semi-fixed, 50k Ω (B)
MISCELLANEOUS		
L180, L280	5160107000	Coil, Choke; 1.2mH
K300	5061137000	Relay, LAB2L; 12V
P180	5336126400	Connector Plug, 4P (WHT)
P181	5336137400	Connector Plug, 4P (BLK)
P182	5336126600	Connector Plug, 6P (WHT)
P183	5336145400	Connector Plug, 4P (YEL)
P184	5336126300	Connector Plug, 3P (WHT)
P185	5336126200	Connector Plug, 2P (WHT)
P186	5336135400	Connector Plug, 4P (RED)
P187	5336137200	Connector Plug, 2P (BLK)
P188	5336145200	Connector Plug, 2P (YEL)
P189	5336135500	Connector Plug, 5P (RED)

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

MECHANISM PCB (1) ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200103900	PCB Assy
	5210103900	PCB (1)
	IC's	
U410	5220417800	LM556CN
	DIODES	
D440, D441	5224013210	DS135D
CARBON RESISTORS		
All resistors are rated $\pm 5\%$ tolerance and $\frac{1}{2}$ watt unless otherwise noted.		
R485	5181523000	51k Ω
R486	5184307000	10 Ω
R487, R488	5181518000	33k Ω
R489	5181519000	36k Ω
R490	5181522000	47k Ω
R491	5181494000	3.3k Ω
R492	5181496000	3.9k Ω
R493, R494	5181482000	1k Ω
R495	5181488000	1.8k Ω
CAPACITORS		
C440, C441	5263156902	Meta. 0.1 μ F 100V 5%
C442	5260162050	Elec. 4.7 μ F 35V
C443~C445	5171856000	Mylar 0.01 μ F 100V 5%
C446	5263100910	Polypro. 0.0015 μ F 100V 5%
C447	5263103710	Polypro. 0.022 μ F 100V 5%
VARIABLE RESISTORS		
R496	5150155000	Semi-fixed, 20k Ω (B)
R497	5150152000	Semi-fixed, 2k Ω (B)
MISCELLANEOUS		
S400~S403	5300909400	Switch, Slide; 1-2
P421	5122153000	Connector Plug, 10P (WHT)
P422	5122146000	Connector Plug, 3P (WHT)
P423	5122148000	Connector Plug, 5P (WHT)
P424	5122454000	Connector Plug, 3P (RED)
P425	5122147000	Connector Plug, 4P (WHT)
P426	5122203000	Connector Plug, 3P (BLK)

POWER SUPPLY PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200102400	PCB Assy [J, GE, E, UK, A]
	5200102410	PCB Assy [US, C]
	5210102401	PCB [J, GE, E, UK, A]
	5210102501	PCB [US, C]
	IC's	
U50	5220418300	M5231L
U51	5220416400	M5230L
U52	5220418300	M5231L
U53	5220418300	M5231L
TRANSISTORS		
O50	5145087000	2SD313E
Q51	5145150000	2SA1015GR
DIODES		
D50	5224541501	Zener RD7.5EB2
D51~D53	5224013210	DS135D (J, D51 only)
CARBON RESISTORS		
All resistors are rated $\pm 5\%$ tolerance and $\frac{1}{8}$ watt unless otherwise noted.		
R50	5240027420	470 Ω
R51	5240029420	3.3k Ω
R52	5240029820	4.7k Ω
R54~R56	5240027620	560 Ω
R57	5240059420	3.3k Ω 2%
R58	5240071520	24k Ω 2%
R59, R60	5240071020	15k Ω 2%
R61	5240030620	10k Ω
R62	5240033020	100k Ω
R63	5240030420	8.2k Ω
R64	5183572000	56 Ω $\frac{1}{2}$ W Nonflammable
R65	5240167600	560 Ω $\frac{1}{2}$ W
R66	5240029420	3.3k Ω
R67	5240032020	39k Ω
R69	5240027620	560 Ω
R70	5240069420	3.3k Ω 2%
R71	5240071420	22k Ω 2%
CAPACITORS		
C50	5262001110	Elec. 4700 μ F 25V
C51	5260165252	Elec. 47 μ F 25V
C52	5172212000	Ceramic 100pF 50V
C53	5172236000	Ceramic 0.01 μ F 50V
C54	5260163252	Elec. 22 μ F 10V
C55	5260162550	Elec. 10 μ F 16V
C56, C57	5173083000	Elec. 1000 μ F 35V
C58, C59	5260165252	Elec. 47 μ F 25V
C60, C61	5260162050	Elec. 4.7 μ F 35V
C62~C64	5260162550	Elec. 10 μ F 16V
C65, C66	5172236000	Ceramic 0.01 μ F 50V
C67	5267010300	Ceramic 10000pF 500V
C68	5173054800	Elec. 220 μ F 16V
C69	5260166852	Elec. 220 μ F 10V
C70	5260165052	Elec. 47 μ F 10V

IN/OUTPUT PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200104200	PCB Assy
	5210104202	PCB
U91	5220411100	IC, NJM4560DX
R91, R92	5240032220	Carbon Res., 47kΩ 1/8W 5%
R93, R94	5240032020	Carbon Res., 39kΩ 1/8W 5%
R95, R96	5240033020	Carbon Res., 100kΩ 1/8W 5%
C91, C92	5260253650	Elec., 4.7μF 25V BP
	5061137000	Relay, 12V LAB2L
	5330507800	Pin Jack, 4P

TRANSISTOR PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200103500	PCB Assy
	5210103500	PCB
Q60, Q61	515145087000	Transistor, 2SD313E
Q62	515145129000	Transistor, 2SB507E
Q63, Q64	515145087000	Transistor, 2SD313E
	5033291000	Plate, Insulating, 1S-313D
	5033295000	Tube, Insulating; P

CONTROL SW PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200103200	PCB Assy
	5210103200	PCB
S410~S416	5302101800	Switch, Tact
D450~D453	5225011500	LED, TLUG-163(GRN)
D454~D456	5225011600	LED, TLS-163(RED)
R400~R403	5181450000	Carbon Res., 47Ω 1/4W 5%
R404~R406	5181460000	Carbon Res., 120Ω 1/4W 5%

MANUAL BIAS PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200125600	PCB Assy
	5210125600	PCB
VARIABLE RESISTORS		
R574, R674	5150152000	Semi-fixed, 2kΩ
R575, R675	5150153000	Semi-fixed, 5kΩ
R576, R676	5150155000	Semi-fixed, 20kΩ
P515	5336126800	Connector Plug, 8P(WHT)

MECHANISM PCB(2) ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200104000	PCB Assy
	5210104000	PCB(2)
S420	5302101900	Switch, Tact

MECHANISM PCB(3) ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200104100	PCB Assy
	5210104100	PCB(3)
	5310005600	Lamp, 6.3V 0.07A

PITCH CON PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200104300	PCB Assy
	5210104300	PCB
	5282250300	Var. Res., 20kΩ(B)

HEADPHONE PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200104700	PCB Assy
	5210104700	PCB
R62, R63	5282408800	Var. Res., 20kΩ(A) x 2

SENSOR PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200104600	PCB Assy
	5210104600	PCB
Q441, Q442	5228008300	Photo Transistor, PH-102K

VR PCB(1) ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200104400	PCB Assy
	5210104400	PCB(1)
	5284006700	Var. Res., Slide; 50k Ω (A)

VR PCB(2) ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200104500	PCB Assy
	5210104500	PCB(2)
	5284006800	Var. Res., Slide; 20k Ω (A)

DIODE PCB(1) ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200103600	PCB Assy
	5210103600	PCB(1)
D91	.5228008000	Diode, DBA60C
C91	.5267010300	Ceramic Cap. 10000pF 500V

DIODE PCB(2) ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200103700	PCB Assy
	5210103700	PCB(2)
D92	.5228008000	Diode, DBA60C
C92, C93	.5267010300	Ceramic Cap., 10000pF 500V

DIODE PCB(3) ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200103800	PCB Assy
	5210103800	PCB(3)
D93	.5228008000	Diode, DBA60C
C94, C95	.5267010300	Ceramic Cap. 10000pF 500V

CONDENSER PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200105600	PCB Assy
	5210105600	PCB
C96, C97	.5262001110	Elec. Cap. 4700 μ F 25V
D94	.5224013210	Diode, DS135D
R90	.5184225000	Carbon Resistor, 10 Ω 1/4W 5% Nonflammable

POWER SW PCB ASSY (PC Board Omitted)

REF. NO.	PARTS NO.	DESCRIPTION
	5200104800	PCB Assy
	5210104800	PCB
	.5300030600	Switch, Push; SDL-1P

FUSE PCB(1) ASSY [E, UK, A] (PC Board Omitted)

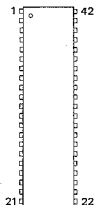
REF. NO.	PARTS NO.	DESCRIPTION
	5200103300	PCB Assy [E, UK, A]
	5210103300	PCB(1)
F1~F3	.5142191000	Fuse, T3.15A 250V
F4	.5041140000	Fuse, T1A 250V
F5, F6	.5142194000	Fuse, T6.3A 250V
	5142087000	Holder, Fuse x 12

FUSE PCB(2) ASSY [US, C] (PC Board Omitted)

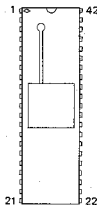
REF. NO.	PARTS NO.	DESCRIPTION
	5200103400	PCB Assy [US, C]
	5210103400	PCB(2)
F1~F3	.5307004300	Fuse, 3A 250V
F4	.5307003600	Fuse, 1A 250V
F5, F6	.5307004700	Fuse, 7A 125V
	5041237000	Holder, Fuse x 12

SEMICONDUCTOR ELECTRODES

HD44750A64
HD44750A65
(TOP VIEW)



MB8841M-G-1110M
(TOP VIEW)



HD140118P
HD140668P
HD145948P
HD74LS26P
(TOP VIEW)



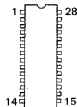
HD14049UBP
(TOP VIEW)



LB1275T
MC14538B
(TOP VIEW)



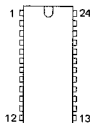
LC7900
(TOP VIEW)



M54517P
M54533P
M54560P
(TOP VIEW)



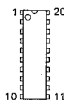
NE654N
(TOP VIEW)



NE652N
(TOP VIEW)



LB1475
(TOP VIEW)



LM556CN
(TOP VIEW)



NJM2403D
NJM386D
NJM4558D
NJM4560DX
(TOP VIEW)



M54516P
(TOP VIEW)



LA2000



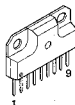
M5218L
M5230L



M5231L



M54545L



μPC1252H2
μPC1253H2



DTA124N
DTC124N



NJM78L12A



LM79L12ACZ

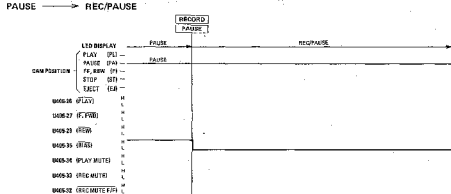
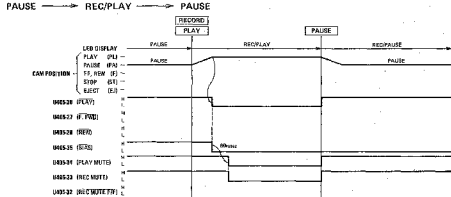
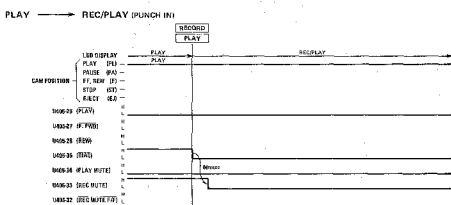
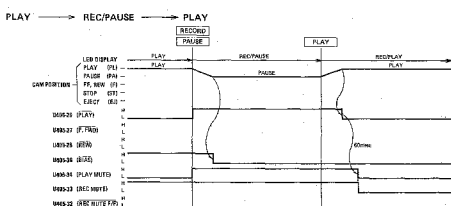
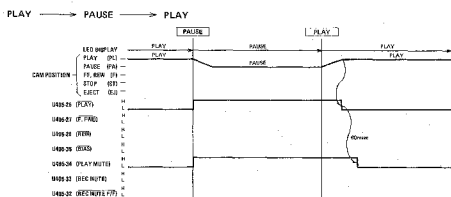
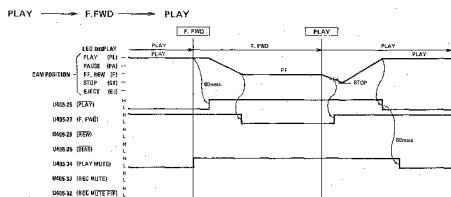
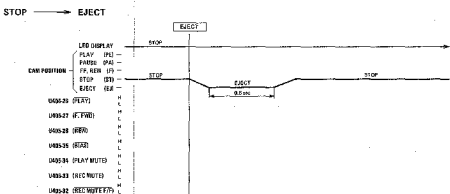
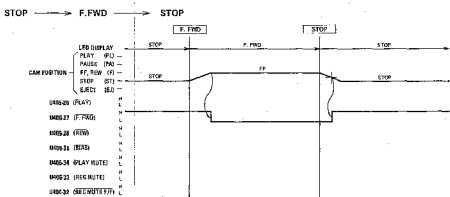
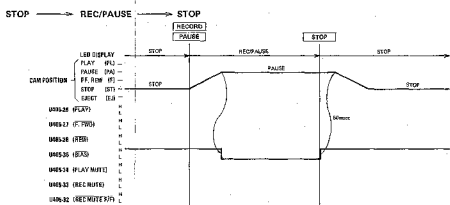
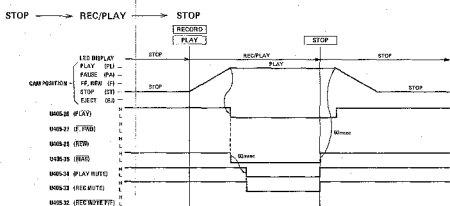
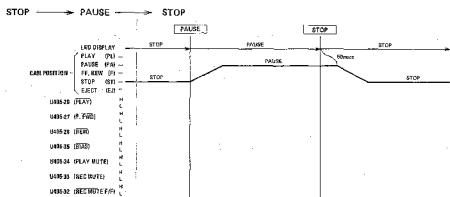


SLP-135B



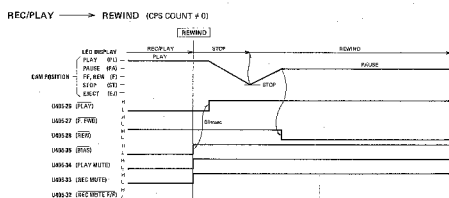
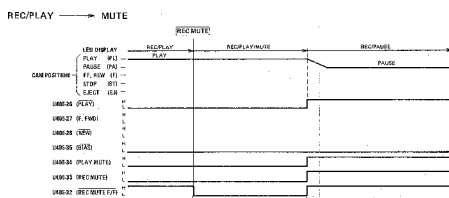
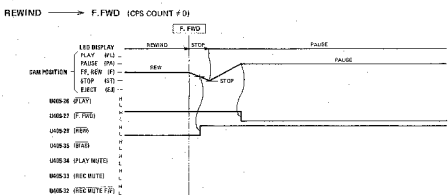
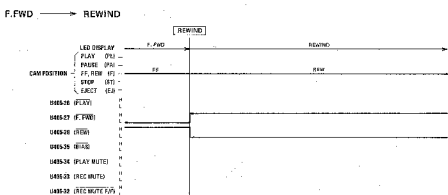
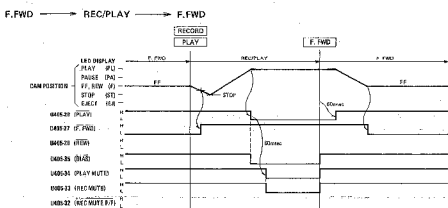
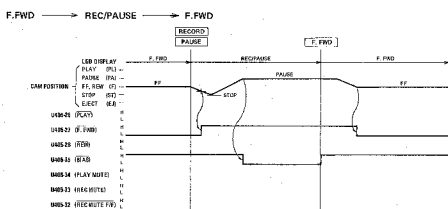
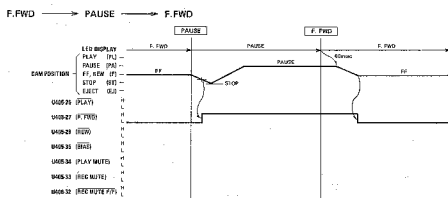
TLUG-163
TLS-163



[illegible]

Z-6000 Master Cassette Deck

SYSTEM CONTROL IC TIMING CHART



TRANSPORT FUNCTION TABLE

Source	STOP	PLAY	F.FWD	REWIND	PAUSE	REC/PLAY	REC/PAUSE	OPSW	OPSW	SCAN	REC/MUTE
Destination	STOP	PLAY	F.FWD	REWIND	PAUSE	REC/PLAY	REC/PAUSE	OPSW	OPSW	SCAN	REC/MUTE
PLAY	PLAY	PLAY	PLAY	PLAY	PLAY	REC/PLAY	PLAY	PLAY	PLAY	PLAY	REC/PLAY
F.FWD	F.FWD	F.FWD	F.FWD	F.FWD	F.FWD	F.FWD	F.FWD	F.FWD	F.FWD	F.FWD	F.FWD
REWIND	REW	REW	REW	REW	REW	REW	REW	REW	REW	REW	REW
PAUSE	PAUSE	PAUSE	PAUSE	PAUSE	PAUSE	REC/PAUSE	PAUSE	PAUSE	PAUSE	PAUSE	REC/PAUSE
REC/PLAY	REC/PLAY	REC/PLAY	REC/PLAY	REC/PLAY	REC/PLAY	REC/PLAY	REC/PLAY	REC/PLAY	REC/PLAY	REC/PLAY	REC/PLAY
REC/PAUSE	REC/PAUSE	REC/PAUSE	REC/PAUSE	REC/PAUSE	REC/PAUSE	REC/PAUSE	REC/PAUSE	REC/PAUSE	REC/PAUSE	REC/PAUSE	REC/PAUSE
OPSW	OPSW	OPSW	OPSW	OPSW	OPSW	OPSW	OPSW	OPSW	OPSW	OPSW	OPSW
SCAN	SCAN	SCAN	SCAN	SCAN	SCAN	SCAN	SCAN	SCAN	SCAN	SCAN	SCAN
REC/MUTE	REC/MUTE	REC/MUTE	REC/MUTE	REC/MUTE	REC/MUTE	REC/MUTE	REC/MUTE	REC/MUTE	REC/MUTE	REC/MUTE	REC/MUTE

TEAC SCHEMATIC DIAGRAM Z-6000

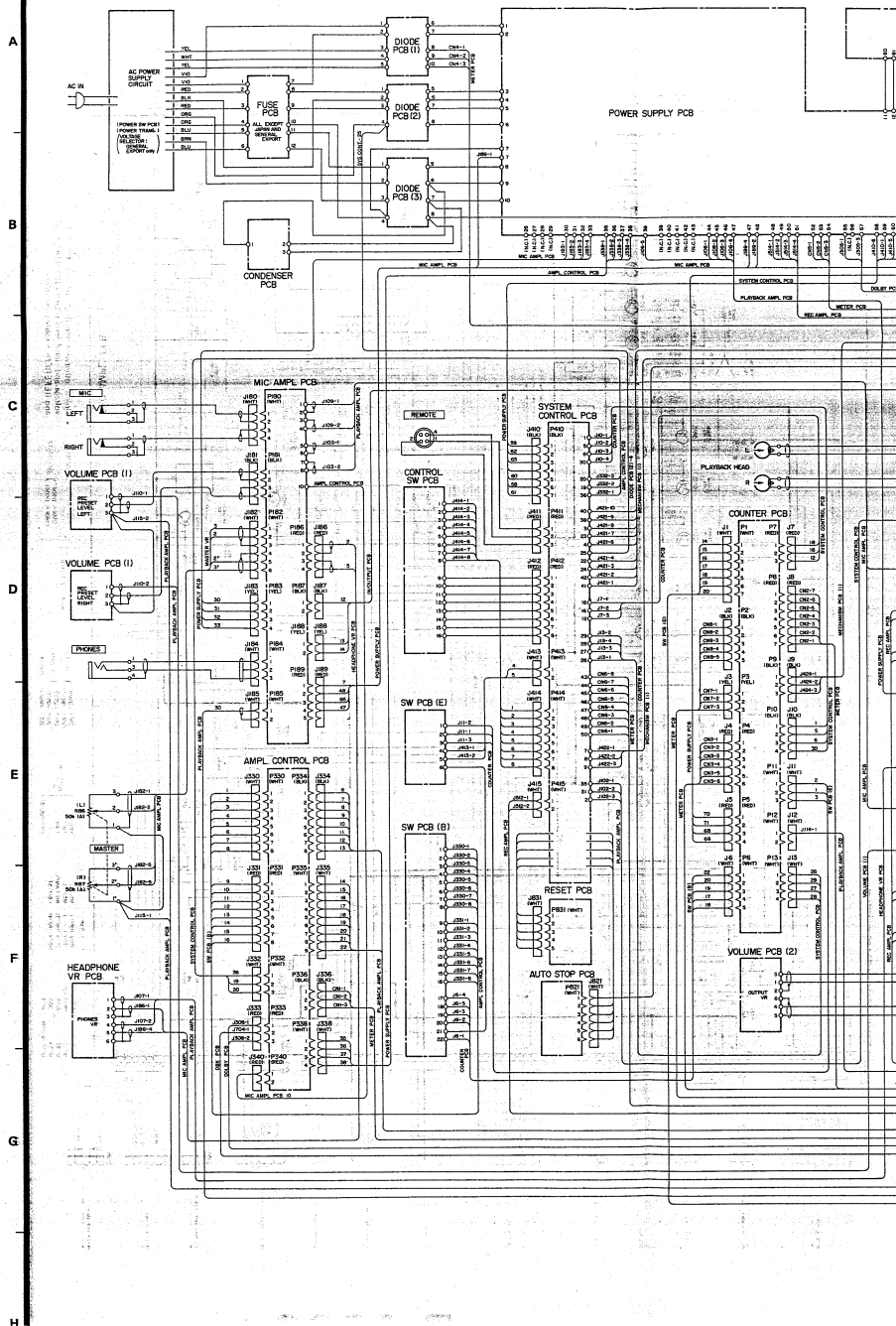
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2

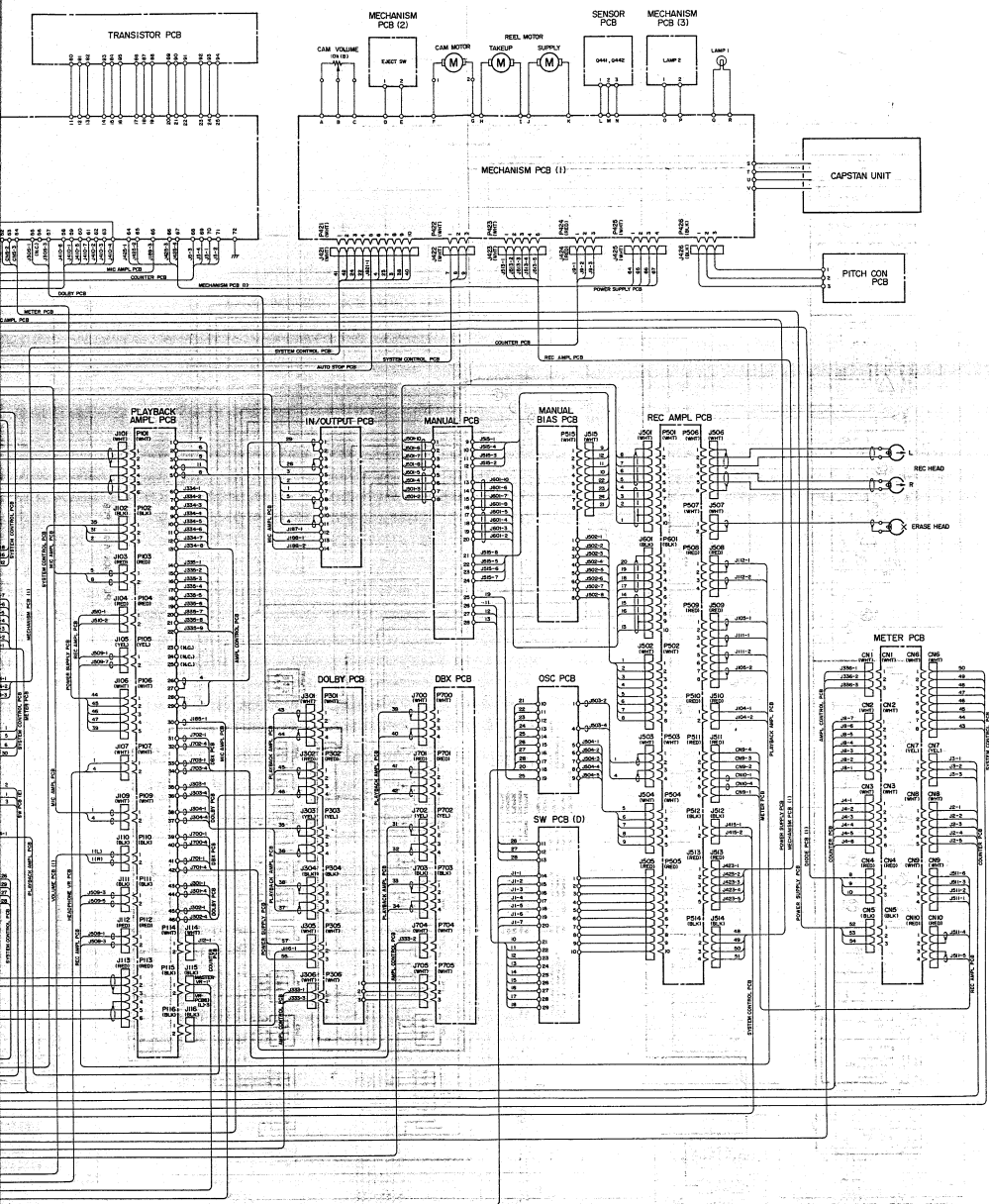
3

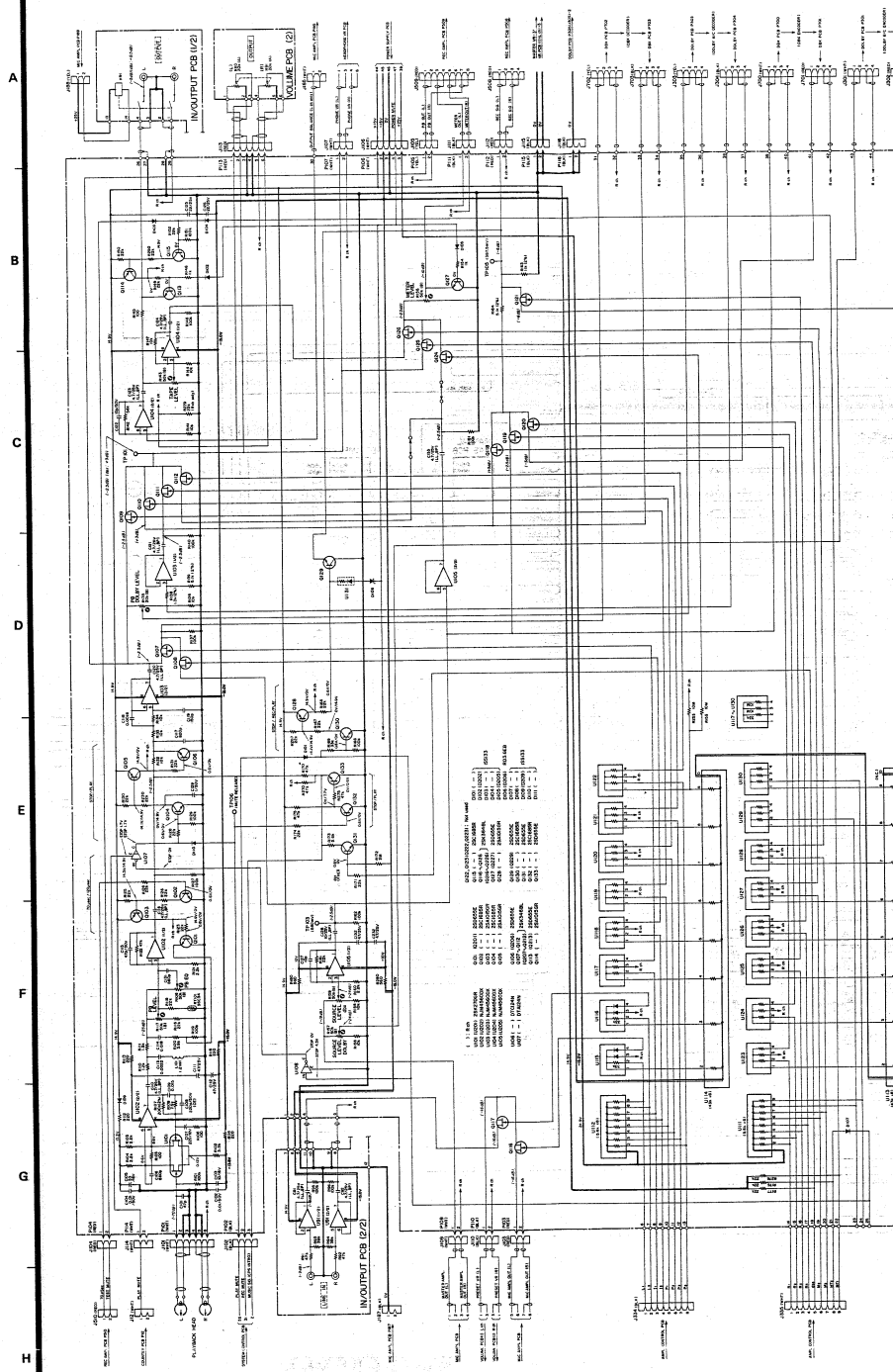
4

5

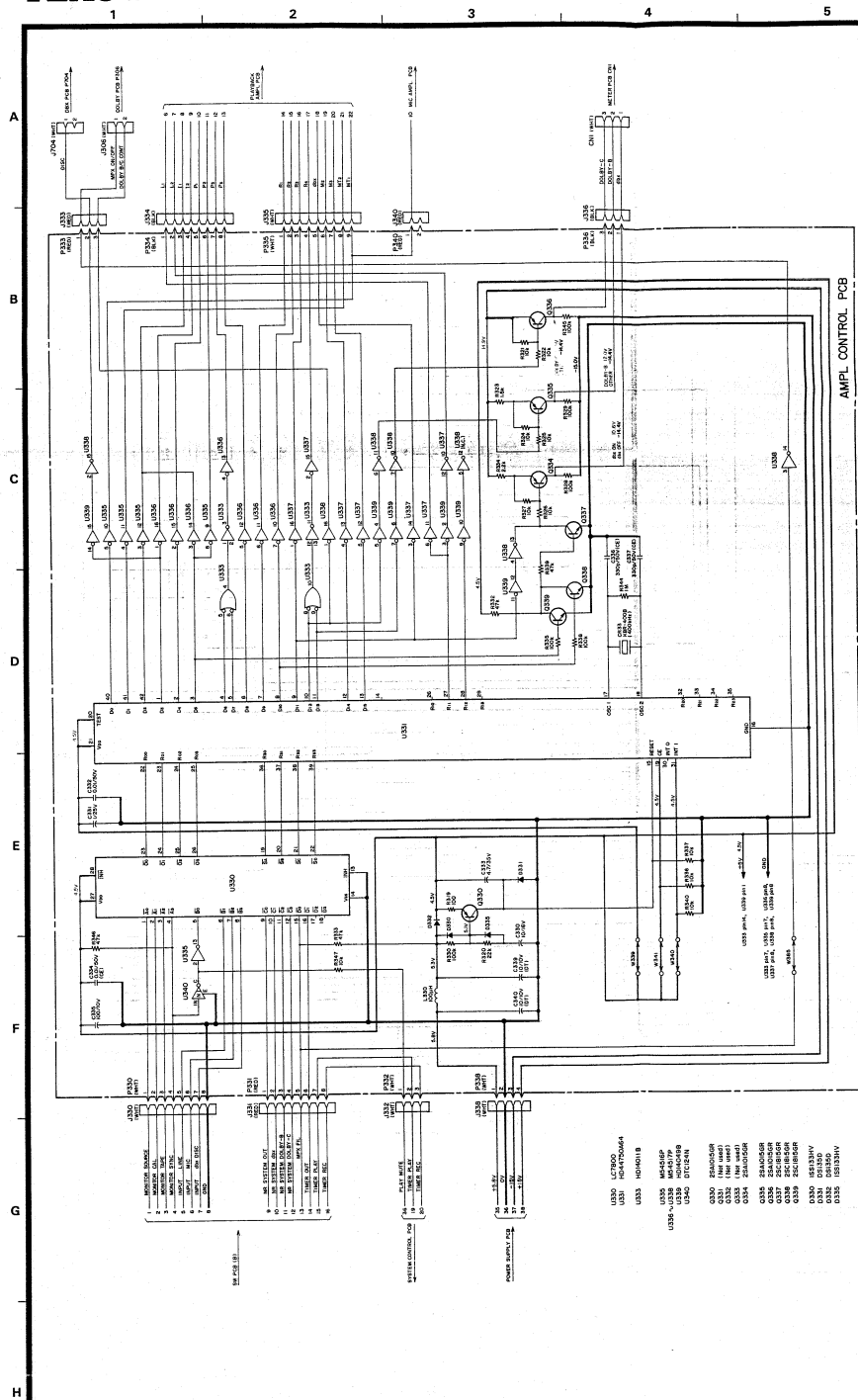


TEAC Z-6000 Master Cassette Deck

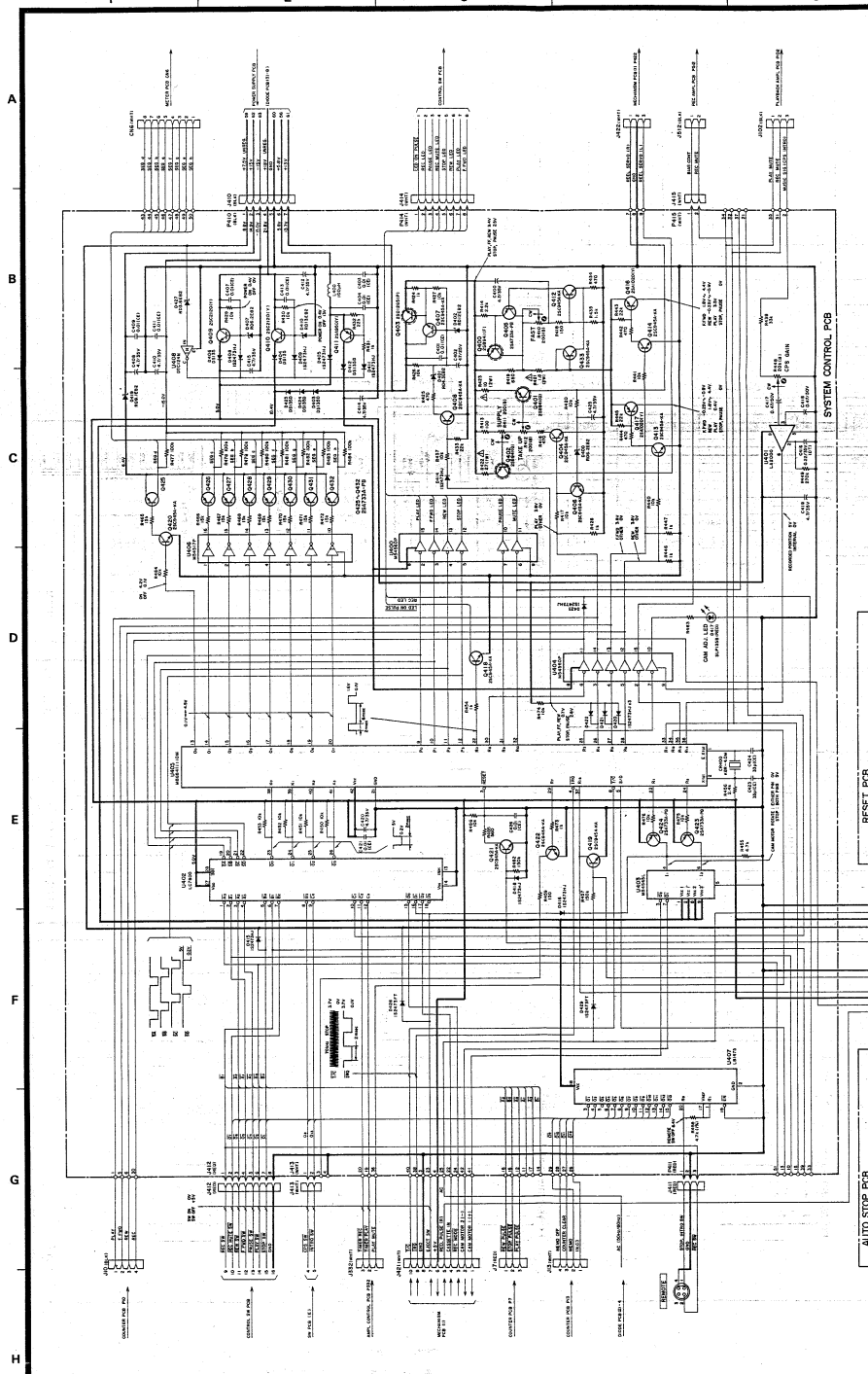


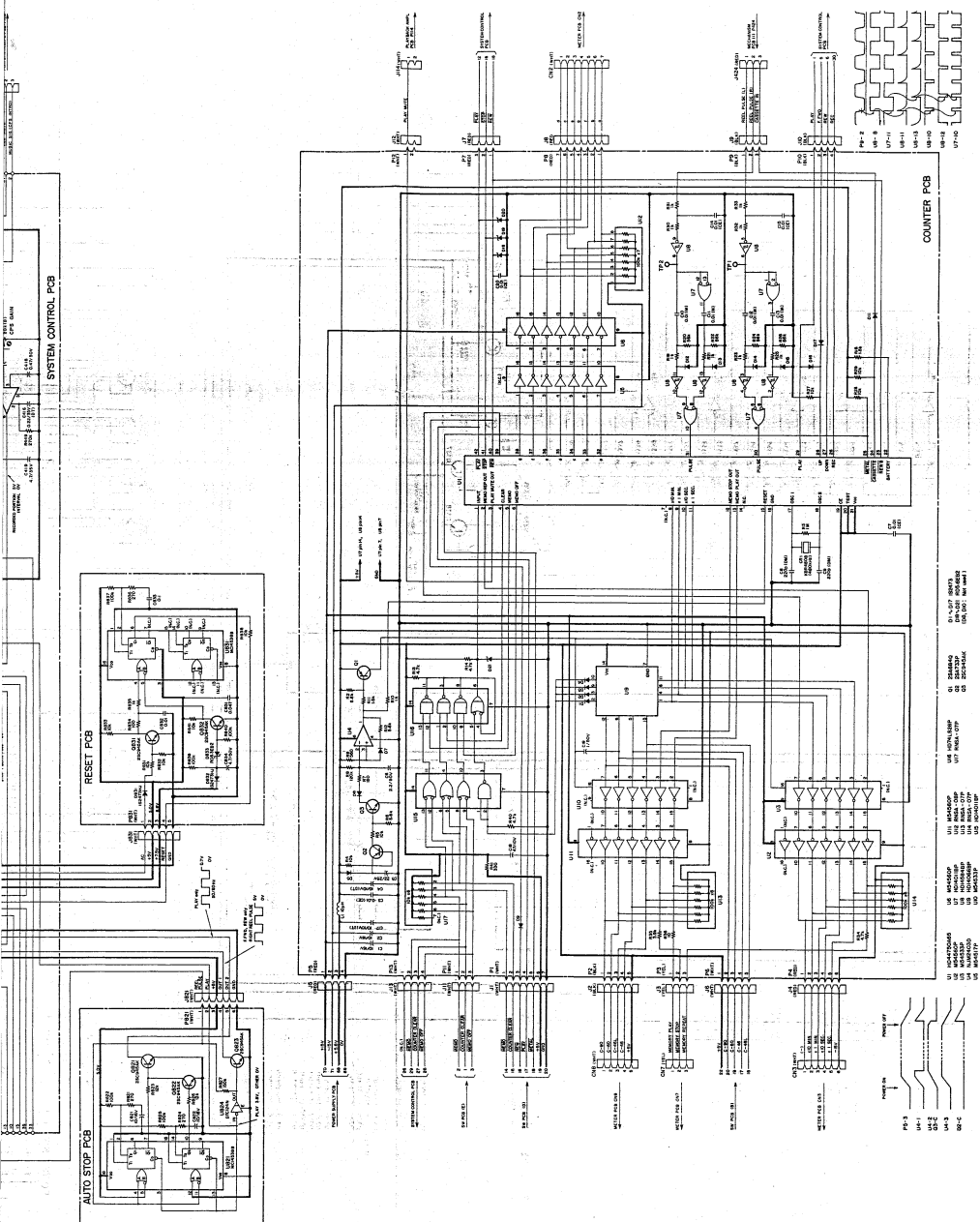


TEAC SCHEMATIC DIAGRAM Z-6000

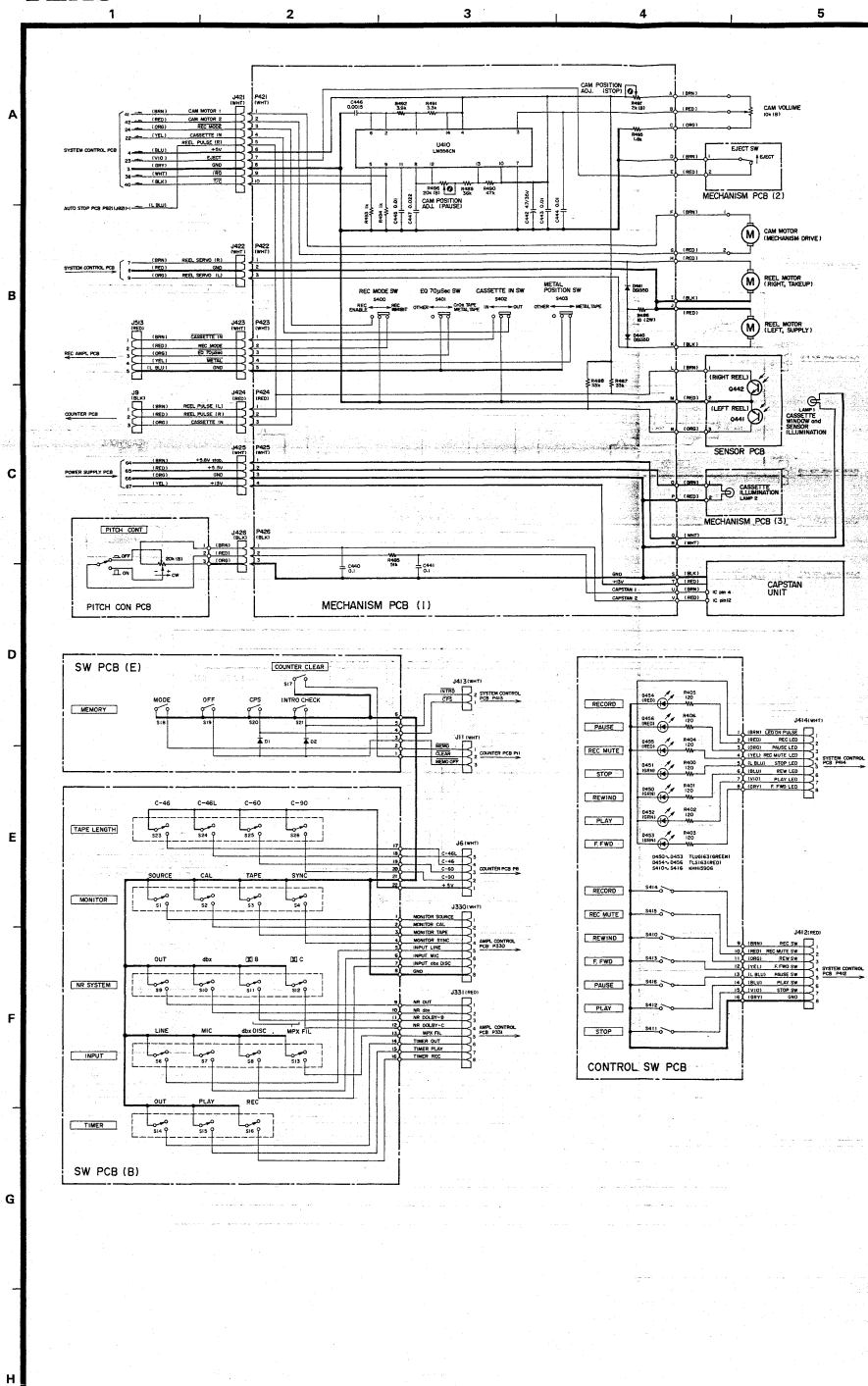




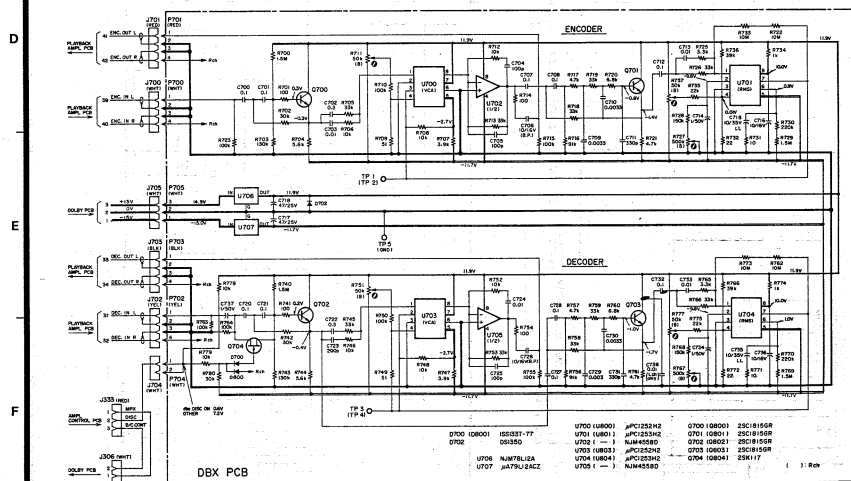
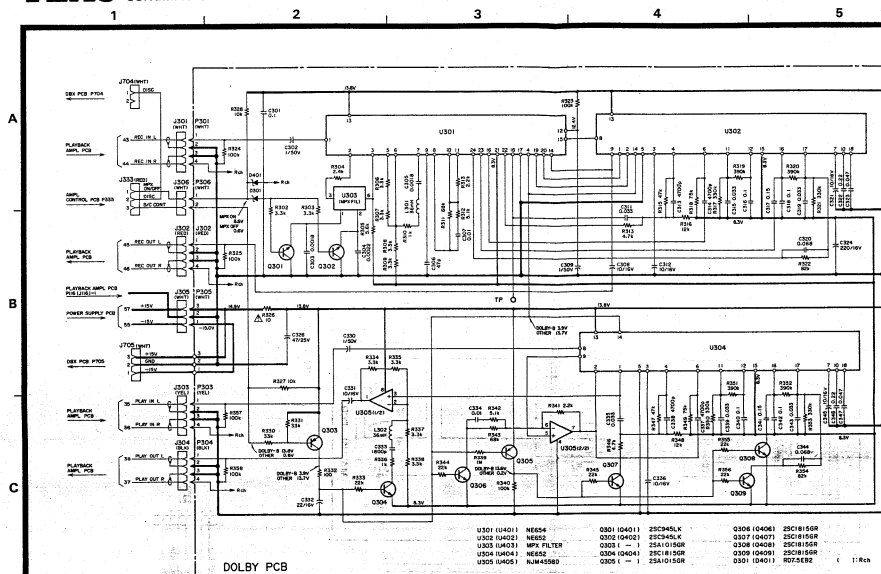




TEAC SCHEMATIC DIAGRAM Z-6000



TEAC SCHEMATIC DIAGRAM Z-6000



• Unless otherwise specified, DBX PCB voltage value refers to DBX IN. • DBX PCBの電圧値は、特記のない限りDBX動作時の値です。

NOTES

1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. Voltage and signal level values are for reference only.
0dB=0.775V
4. : Front panel indication
5. : Rear panel indication
6. : +B power supply circuit
7. : -B power supply circuit
8. : 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.

注意

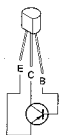
1. 抵抗の単位はΩ (k=kΩ, M=MΩ) です
2. コンデンサの単位はμF (p=pF) です。
3. 電圧及び信号レベルは参考値です。
0dB=0.775V
4. : フロント・パネル上の表示
5. : リア・パネル上の表示
6. : +B電源回路
7. : -B電源回路
8. : マークのある部品は安全重要部品です。交換するときは必ずティアック指定の部品を使用してください。



BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

Z-6000 Master Cassette Deck

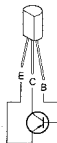
2SA1015GR
2SA733P
2SA733A-PB
2SA950Y



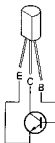
2SC1317R
2SC1685R
2SC1815GR
2SC2120Y
2SC2878B
2SC945AK
2SC945LK
2SC945A-KA
2SD655E



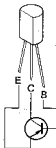
2SA1020Y



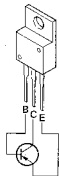
2SD1140



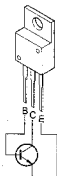
2SA684Q



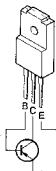
2SB507E



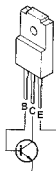
2SD313E



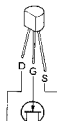
2SB941Q



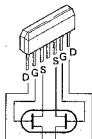
2SD1265P



2SK117GR
2SK364BL



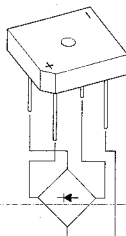
2SK270GR



PH102K



DBA60C



DS135D



1SS133T-77
1SS133HV



1S2473FT
1S2473VE
1S2473HJ



RD3.6EB2
RD4.2EB2
RD5.6EB2
RD6.2EB2
RE7.5EB2
RD9.1EB2
RD12EB2
RD13EB2

