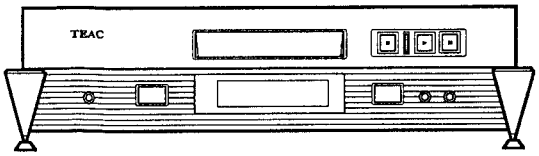
TEAC



SERVICE MANUAL

CD-5

Compact Disc Player

COMPACT disc DIGITAL AUDIO

CONTENTS

Effective : June 1994

5700068900

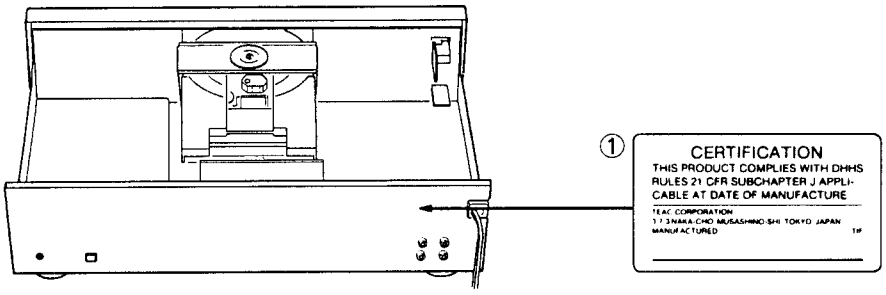
1 SAFETY INFORMATION

SAFETY INFORMATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as class 1 laser product. There is not hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.
The label required in this regulation is shown ①.

CAUTION

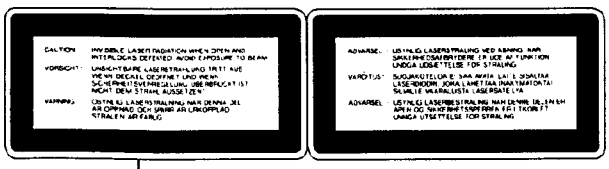
- If you remove the above-mentioned housings under the operating state of the product, there is a possibility of human access to the invisible laser radiation emitted from the optical pickup.
  Pay careful attention, not to let the invisible laser beam enter into your eyes.
- If you find a troubled state of the laser diode, change to the specified new optical pickup.
- If you find a troubled state of safety interlock parts, change to the same type parts described in parts list.

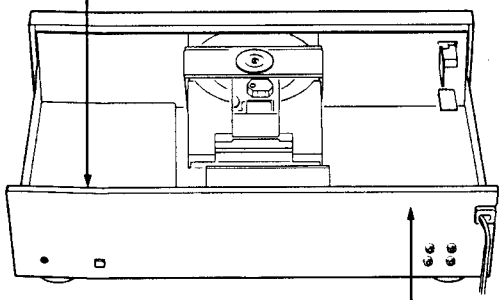


Optical pickup: Type : KSS-210A
Manufacturer : SONY Corporation
Laser output : Less than 0.4 mW on the objective lens
Wavelength : 760 – 800 nm

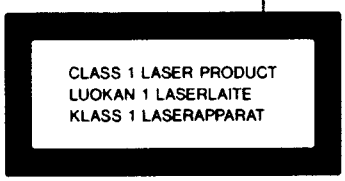
• CAUTION • ACHTUNG • OBSERVERA • ADVARSEL

②





①



① THIS LABEL IS ATTACHED TO THE PLACE AS ILLUSTRATED TO INFORM THAT THE APPARATUS CONTAINS A LASER COMPONENT.

① DIESE AUFKLEBEMARKE IST AN DEM IN DER ABBILDUNG GEZEIGTEN ORT ANGEBRACHT UM DARAUF HINZUWEISEN, DASS IM INNERN DES GERÄTS EINE LASER-KOMPONENTE BEFINDET.

① PÅSKRIFTEN SITTER PÅ APPARATEN SOM VISAS SOM UPPMANING OM ATT APPARATEN OMFATTAR EN INBYGGD LASERKOMPONENT.

① DETTE MÆRKAT ER ANBRAGT SOM VIST I ILLUSTRATIONEN FOR AT ADVARE BRUGEREN OM AT APPARATET INDEHOLDER EN LASERKOMPONENT.

② DETTE MÆRKAT ER SOM VIST PÅ ILLUSTRATIONEN ANBRAGT PÅ INDERSIDEN AF TOPDÆKSLET FOR AT ADVARE BRUGEREN OM AT YDERLIGERE FREMTRÆNGEN VIL VÆRE FORBUNDET MED FARE FOR AT UDSÆTTE SIG FOR LASERSTRÅLING.

ADVARSEL- BETJENING AF ANDRE KONTROLLER OG REGULATORER ELLER BENYTTELSE AF ANDRE FREMGANGSMÅDER END BESKREVET HERI ER FORBUNDET MED FARE FOR USDÆTTELSE FOR LASERSTRÅLING.

VARNIG: APPARATEN INNEHÅLLER LASER KOMPONENT MED STRÅLNING ÖVERSTIGANDE KLASS 1

"ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING NAR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING."

"VAROITUS! SUOJAKOTELOA EI SAA AVATA. LAITE SISÄLTÄÄ LASERDIODIN. JOKA LÄHETTÄÄ (NÄKYMÄTÖNTÄ) SILMILLE VAARALLISTA LASERSÄTEILYÄ".

ADVARSEL: USYNLIG LASERBESTRÅLING NÅR DENNE DELEN ER ÅPEN OG SIKKERHETSSPERREN ER UTKOBLET UNNGÅ UTSETTELSE FOR STRÅLING.

2 SPECIFICATIONS
仕 様

AUDIO		〈オーディオ〉	
Number of Channels	2	オーディオチャンネル数	2チャンネル
Frequency Response	1 – 20,000Hz ± 0.1dB	周波数特性	1～20,000Hz ± 0.1dB
Signal to Noise Ratio	Better than 105dB (1kHz)	SN比	105dB以上(1kHz)
Dynamic Range	Better than 98dB (1kHz)	ダイナミックレンジ	98dB以上(1kHz)
Harmonic Distortion	0.002% (1kHz)	高調波歪率	0.002%以下(1kHz)
Wow and Flutter	Unmeasurable (Quartz accuracy)	ワウ・フラッター	測定限界値以下(水晶発振精度)
Channel Separation	Better than 104dB (1kHz)	チャンネルセパレーション	104dB以上(1kHz)
Output Analog	2.5Vrms	アナログ出力	2.5Vrms
Digital	-15dBm – -21dBm (Optical)	デジタル出力	−15～−21dBm(OPTICAL)
Headphone	30mW/33Ω	ヘッドホン出力	30mW(33Ω負荷)
D/A Converter	"Bitstream" conversion	D/Aコンバーター	ビットストリーム
Digital Filter	8-times oversampling 20-bit digital filter	デジタルフィルター	8倍オーバーサンプリング 20ビットデジタルフィルター
Analog Filter	3rd order Butterworth filter	アナログフィルター	3次バターワースフィルター
PICK UP		〈ピックアップ〉	
Type	Optical 3-Beam laser pickup	方式	対物レンズ駆動、光学式3ビーム
Objective Lens	2-dimensional parallel drive	対物レンズ駆動方式	2次元平行駆動
Laser Type	GaAlAs type semiconductor laser	光源	半導体レーザー
Wave Length	780nm	波長	780nm
SIGNAL FORMAT		〈信号フォーマット〉	
Sampling Frequency	44.1kHz	標本化周波数	44.1kHz
Quantization Bit	16-bit linear/channel	量子化ビット数	16ビット・リニア/チャンネル
Channel Bit Rate	4.3218Mb/sec	伝送レート	4.3218Mb/sec
Channel Modulation Code	EFM (Eight to Fourteen Modulation)	変調方式	EFM
Error Correction	CIRC (Cross Interleave Reed Solomon Code)	エラー訂正方式	CIRC
GENERAL		〈一般〉	
Power Requirements	120/230V AC, 50 – 60Hz (USA/Canada/General Export Model) 230V AC, 50Hz (Europe Model) 240V AC, 50Hz (UK/Australia Model)	電源	100V AC 50-60Hz
Power Consumption	14 watts	消費電力	14W
Dimensions (W × H × D)	481 × 123.5 × 295mm (18-15/16" × 4-7/8" × 11-5/8")	外形寸法	481 × 123.5 × 295mm (W × H × D)
Weight (net)	7.2kg (15-7/8 lbs)	重量	7.2kg
Standard Accessories	Wireless Remote Control Unit (RC-530 : for Gold-finish version or RC-529 : for Black finish version) × 1, RCA pin-plug cord, Battery (SUM-4, "AAA", "R03" type) × 2, Foot Base × 4, Foot Height Adjustment Tool	付属品	●ワイヤレスリモコン RC-529またはRC-530 ●ピンプラグコード×1 ●乾電池(単4, SUM-4)×2 ●フットベース×4 ●高さ調整棒×1 ●取扱説明書

●Improvements may result in specification or feature changes without notice.

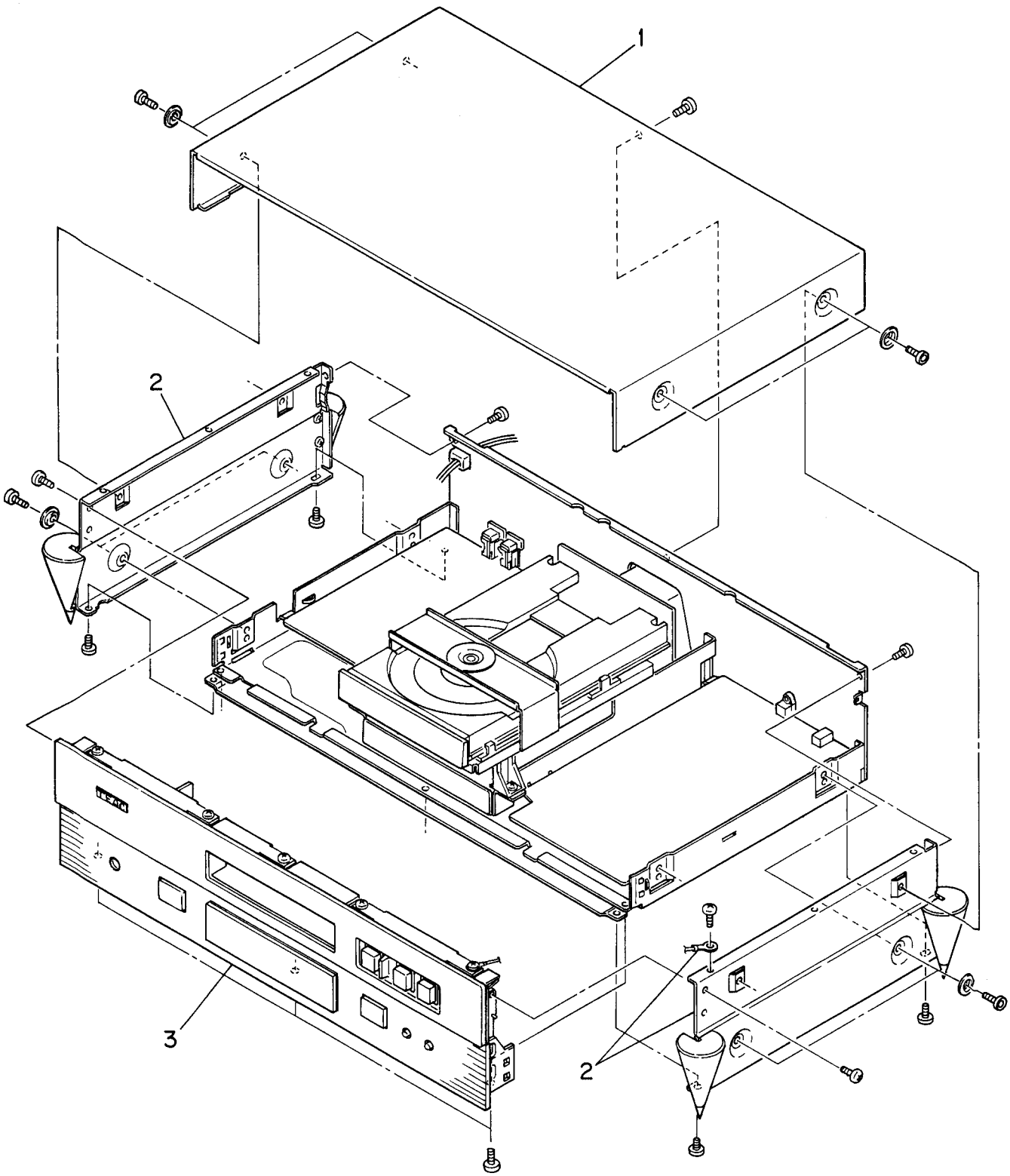
＊仕様および外観は、改善のため予告なく変更することがあります。

3 CASE AND FRONT PANEL REMOVAL

外装部品の外し方

Disassemble in number-order

番号順に外してください



4 ADJUSTMENT AND CHECKS
調整と確認

1. Replacement of the pickup assembly

- Before removing the pickup assembly be sure to solder -bridge where indicated in the inset (Fig. 4-1) to prevent the laser diode from being electrostatically damaged. After replacing the pickup assembly, be sure to unsolder the antistatic bridge. Or else the laser diode does not function.
- Before servicing the pickup assembly be sure to prevent electrostatic-inducer destruction by grounding not only test equipment in use but also yourself as shown in Fig. 4-2.
  * Electrostatic charge drastically shortens the operating life of the laser diode or possibly results in its destruction.
- During the transportation, mounting and dismounting of the assembly, support with your fingers at points A and B as shown in Fig. 4-3. Be particularly careful not to touch the actuator, photosensor and LD plate and do not apply force to them.
- Soldering must be done quickly at less than 30W, 320℃.
- Don't disassemble the pickup ass'y.
- Don't apply shock to the pickup ass'y.
- Don't place the assembly in a place subject to excessive dust, heat or moisture.

1. ピックアップASSYの交換

- ピックアップASSYを外すときは、レーザーダイオードの静電破壊防止のため、必ず斜線部分(Fig. 4-1)を半田ブリッジしてから作業をしてください。また、取り付ける場合も取り付けた後に半田ブリッジを外してください。
  半田ブリッジをしたままではレーザーダイオードは動作しません。
- ピックアップASSYを取り扱う場合は、測定器などに確実なアースを取ると共に、人体アースを行ない、静電破壊を十分防止してください。(Fig. 4-2)
  *レーザーダイオードは、静電気が加わると寿命が著しく低下したり、または破損しますので十分注意してください。
- 取り付け、取り外し、持ち運びの際は、Fig. 4-3のA部とB部で支えてください。特にアクチュエーター、光検出部、LDプレート部は、手を触れたり力を加えたりしないでください。
- 半田ゴテは30W, 320℃以下を使用し、すばやく処理してください。
- ピックアップASSY本体の調整および分解などはしないでください。
- ピックアップASSYに落下・衝撃は加えないでください。
- ゴミ・ホコリなどの発生する場所、高温・多湿の場所は避けてください。

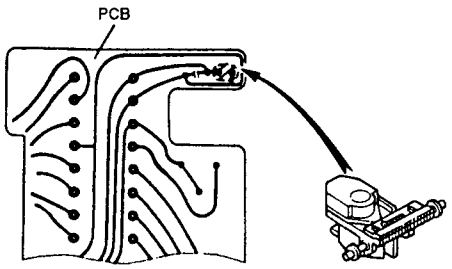


Fig. 4-1

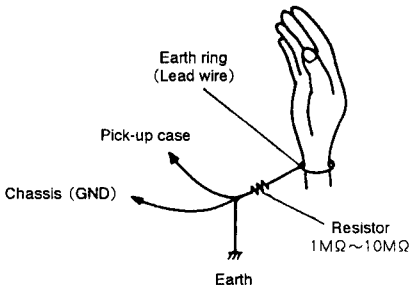


Fig. 4-2

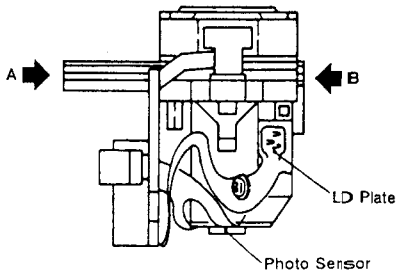


Fig. 4-3

2. Objective

- Laser beams are similar to infrared rays. Don't look at the beams directly and keep your eyes at least 30cm away from them.
- Don't touch the objective with fingers.
- If objective becomes dirty, playback will deteriorate. To clean the objective, moisten a good cleaning tissue, such as made by KODAK, in isopropyl alcohol and wipe the objective gently. Wipe off and excess fluid with a dry cleaning tissue.

2. 対物レンズについて

- レーザー光は近赤外線の為目視は困難です。目の安全の為、目をレンズから30cm以上離してください。
- レンズには手を触れないでください。
- レンズに汚れが付くと再生能力が低下しますので、次のように清掃してください。
  レンズクリーニングペーパー(KODAK社製など)に、イソプロピールアルコール(I.P.A)を浸して清掃をし、液が残らないように必ず拭きとってください。

3. Laser diode check
〔Iop (Intensity Optimum) check〕

Connect a DC voltmeter to both ends of R415 on SERVO PCB. Measure the DC voltage while playing a disc to check that the measured value does not exceed the Iop value indicated on the pickup by 5mA. 〔I = measured value/22〕 If the measured value is higher than that indicated, the pickup may be damaged.

* Pay special attention that parts are not damaged by static electricity.

3. レーザーダイオードの破損チェック
〔Iop (Intensity Optimum) 値確認〕

(ピックアップ交換時には必ず実行のこと)
DC ボルトメーターをSERVO PCBのR415の両端に接続する。PLAY中の直流電圧を測定し、その電圧から電流換算した値〔I=測定電圧/22〕がピックアップに表示してあるIop値より5mA以上増加していないことを確認する。増加の場合は、破損している可能性がある。

*静電破壊に十分注意すること。

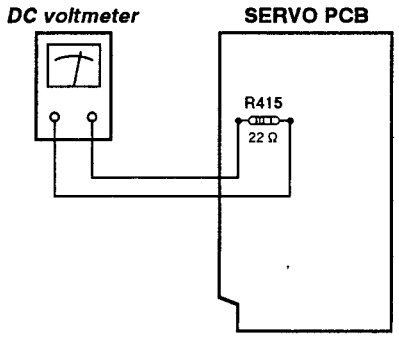


Fig. 4-4

● How to read numbers on sticker attached to the pickup
(Example)

KSS-210A
11191 — Serial No.
646 — Iop value 64.6mA

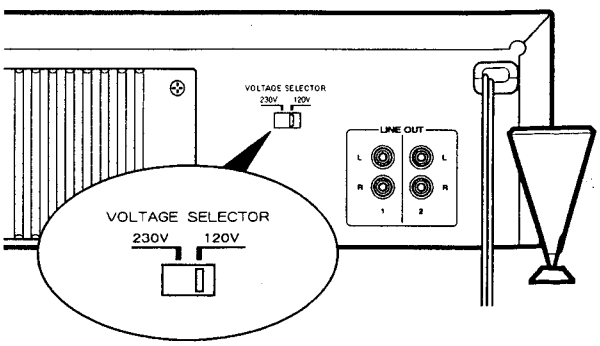
● ピックアップ添付シールの読み方
(例)

KSS-210A
11191 — シリアルNo.
646 — Iop値 64.6mA

VOLTAGE CONVERSION
(For general export/U.S.A./Canada models)

Be sure to remove the power cord from the AC outlet before repositioning the voltage converter switch.

1. Locate the voltage selector on the rear panel.
2. Using a flat-bladed screwdriver, set to the appropriate 230 V or 120 V position according to your area.



4-1 SERVO ADJUSTMENT

TEST DISC : MCD-111 (or YEDS-18)

4-1 サーボ調整

テストディスク : MCD-111 (または YEDS-18)

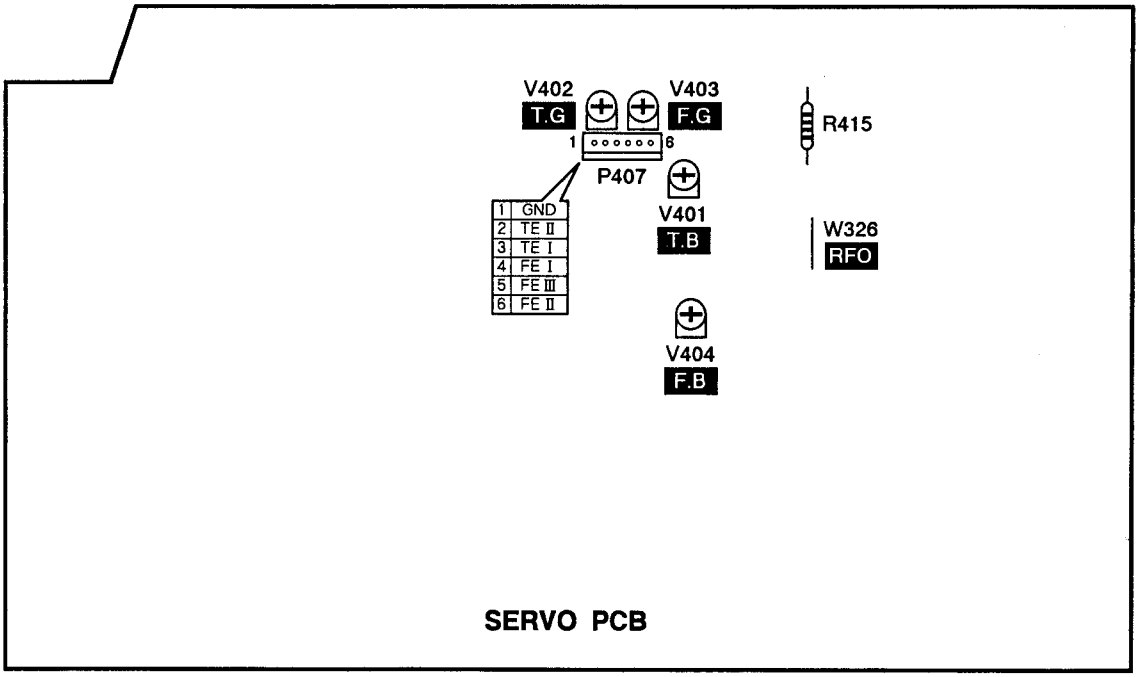


Fig. 4-5

4-1-1 Checking the pickup actuator operation

Before loading the disc, turn the power ON and check that the pickup actuator moves up and down three times. (If the pickup is not at inside on the disc, perform the above operation after moving the pickup to the inside.)

4-1-1 ピックアップアクチュエーター動作チェック

電源ON時ピックアップアクチュエーターが3回上下動すること。(ピックアップが最内周にないときは、最内周に移動後上記動作すること。) ディスクは装着しない。

4-1-2 Tracking balance adjustment

1. Connect the oscilloscope between P407-3 (TE I) and P407-1 (GND), and press the SEARCH (◀◀ or ▶▶) button.
2. Adjust V401 (T.B) so that the upper and lower amplitudes of the tracking error signal waveform become equal above and below 0V.

4-1-2 トラッキングバランス調整

1. P407-3 (TE I) とP407-1 (GND) 間にオシロスコープを接続し、SEARCHボタン (◀◀または▶▶) を押す。
2. トラッキングエラー信号の波形が0Vを中心に振れるようV401 (T.B) を調整する。

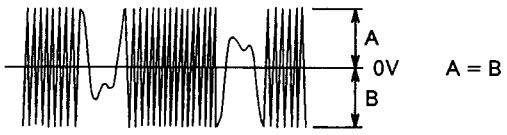


Fig. 4-6

4-1-3 Focus offset adjustment

1. Connect the oscilloscope between W326 (RFO) and P407-1 (GND).
2. In the play mode, adjust V404 (F.B) so that the waveform on the oscilloscope becomes maximum.
3. After adjusting the focus offset, stop the player. Check for an offset voltage of 50mV or less at P407-5 (FE III). If reading values are out of spec, adjust V404 again.

4-1-3 フォーカスオフセット調整

1. W326 (RFO) とP407-1 (GND) 間にオシロスコープを接続する。
2. PLAY状態でオシロスコープの波形が最大になるようにV404 (F.B) を調整する。
3. フォーカスオフセット調整後STOP状態にしてP407-5 (FE III) のオフセット電圧が50mV以下であることを確認する。もし規格に入らない場合は再度V404を調整する。

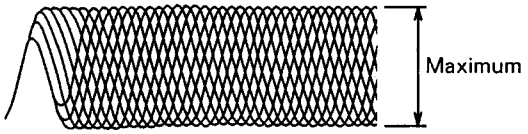


Fig. 4-7

4-1-4 Focus gain adjustment

1. Apply 1.04kHz/10Vp-p to P407-6 (FE II) from an external OSC via 100kΩ resistor.
2. Play the track 4, and adjust V403 (F.G) so that phase at P407-4 (FE I) is 90° with respect to that of the external OSC.

4-1-4 フォーカスゲイン調整

1. 外部OSCより100kΩの抵抗を介して1.04kHz/10Vp-pの信号をP407-6 (FE II) に入力する。
2. 4曲目を再生し、P407-4 (FE I) と外部OSCとの位相が90°になるようにV403 (F.G) を調整する。

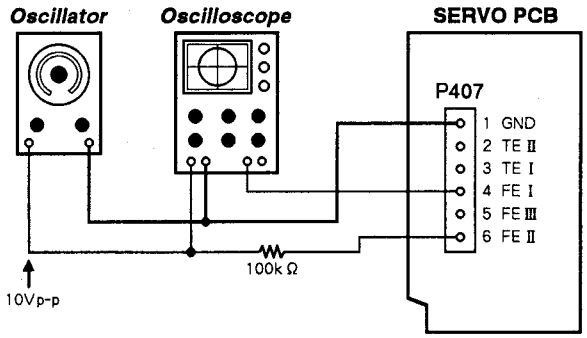


Fig. 4-8

4-1-5 Tracking gain adjustment

1. Apply 1.63kHz/10Vp-p (When using MCD-111) or 1.46kHz/10Vp-p (When using YEDS-18) to P407-2 (TE II) from an external OSC via 100kΩ resistor.
2. Play the track 4, and adjust V402 (T.G) so that phase at P407-3 (TE I) is 90° with respect to that of the external OSC.

4-1-5 トラッキングゲイン調整

1. 外部OSCより100kΩの抵抗を介して1.63kHz/10Vp-p (MCD-111にて調整時) または1.46kHz/10Vp-p (YEDS-18にて調整時) の信号をP407-2 (TE II) に入力する。
2. 4曲目を再生し、P407-3 (TE I) と外部OSCとの位相が90°になるようにV402 (T.G) を調整する。

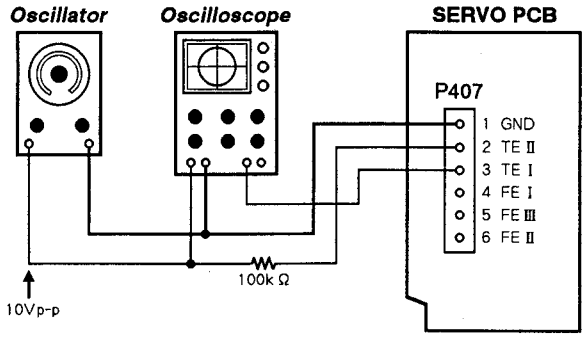


Fig. 4-9

4-2 AUDIO ADJUSTMENT

TEST DISC : MCD-111 (or YEDS-18)

4-2 オーディオ調整

テストディスク : MCD-111 (または YEDS-18)

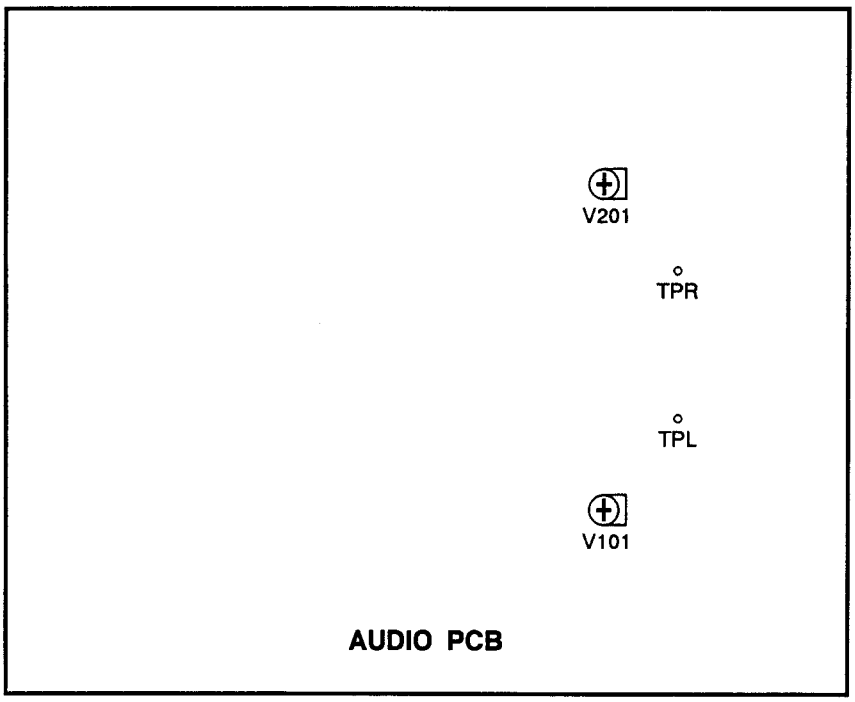


Fig. 4-10

4-2-1 DC offset adjustment

1. Connect a DC voltmeter to TPL(L-ch) and TPR(R-ch) on AUDIO PCB, and adjust V101(L-ch) and V201(R-ch) so that the offset voltage becomes within 3 ± 2mV.
2. Connect a AC voltmeter to the LINE OUT.
3. Readjust V101(L-ch) and V201(R-ch) by repeating the track 7 of MCD-111 between A and B for 1 sec., so that the click noise becomes − 60dB or less.

4-2-1 DC オフセット調整

1. AUDIO PCBのTPL(L-ch), TPR(R-ch)にDCボルトメーターを接続し、オフセット電圧が3±2mVになるようにV101(L-ch), V201(R-ch)を調整する。
2. LINE OUT端子にACボルトメーターを接続する。
3. MCD-111の7曲目を約1秒間A-B間リピートし、このときのクリックノイズが−60dB以下となるようにV101(L-ch), V201(R-ch)を再調整する。

4-2-2 ELECTRICAL CHARACTERISTICS 電気特性

ITEM 項 目	DISC: MCD-111 (YEDS-18)		SPECIFICATIONS 規 格	REMARKS 備 考
	TRACK No. トラック	FREQUENCY 周波数		
1. Output level 出力レベル	2	1kHz	2.5 ± 0.5Vrms	
2. Channel level difference チャンネルレベル差	2	1kHz	0.5dB or less	
3. Phones level ヘッドホンレベル	2	1kHz	1.0 ± 0.3Vrms	33 Ω load OUTPUT level : max.
4. Harmonic distortion 高調波歪率	2	1kHz	0.005 % or less	400Hz~20kHz filter in
5. Frequency response 周波数特性	3~6	20Hz~20kHz	Within ± 0.5dB	reference level : 1kHz
6. S/N ratio S／N比	7		95dB or better	DIN AUDIO (Use SHIBASOKU 725 or equivalent)
7. Channel separation チャンネル セパレーション	8, 10	1kHz	90dB or better	DIN AUDIO
8. Emphasis effect エンファシス効果	13	16kHz	MCD-111 : − 20 ± 0.5dB YEDS-18 : − 9 ± 0.5dB	reference level : 1kHz

PARTS LIST SECTION

NOTES

- PC boards shown are viewed from parts side.
- Parts marked with ＊ require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.
  [J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT
  [E]:EUROPE [UK]:U.K. [A]:AUSTRALIA
  CD-5N:Gold Version, CD-5B:Black Version

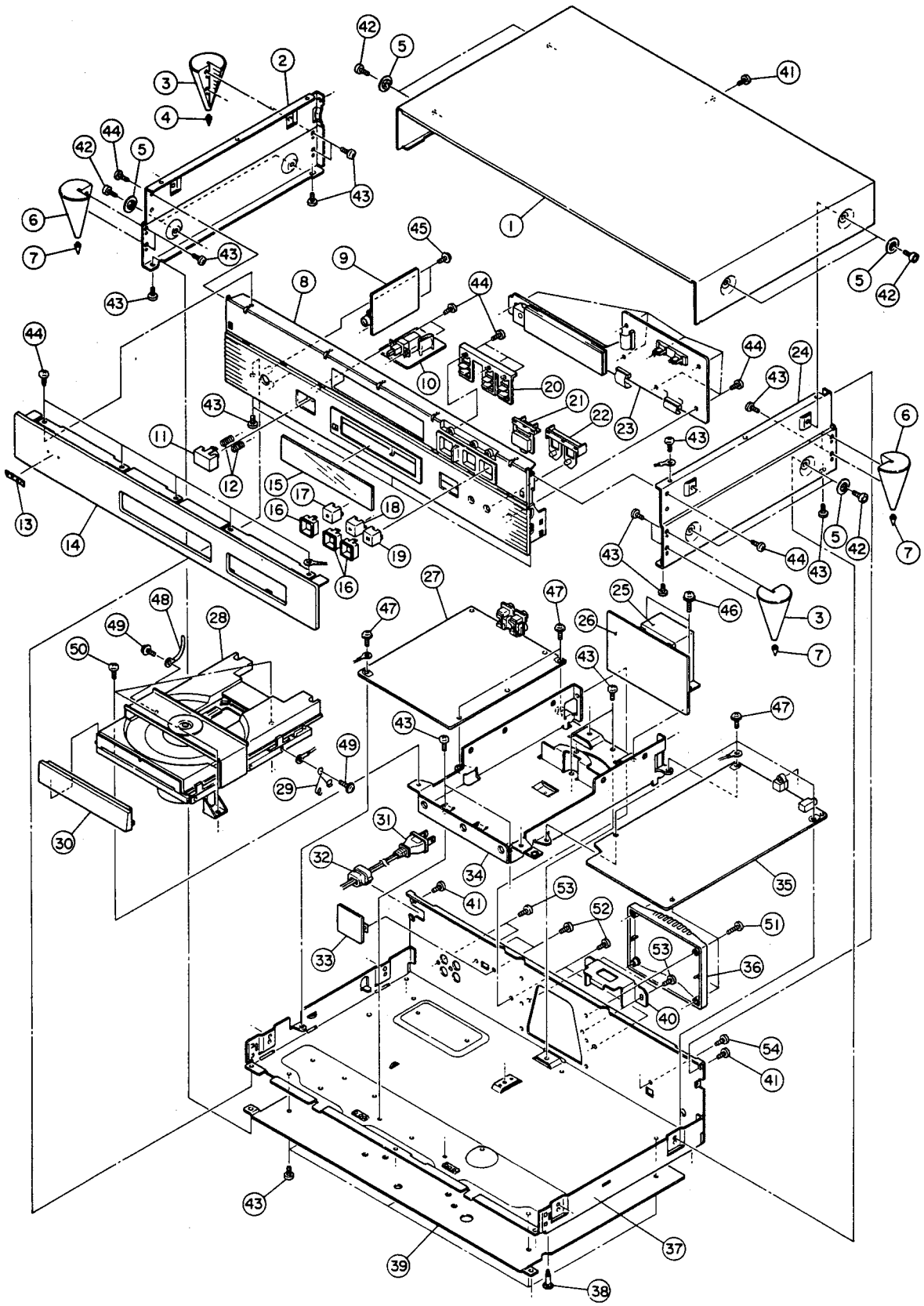
注　意

- プリント基板図は部品面が示されています。
- ＊印の部品は納期が若干かかります。
  あらかじめご了承ください。
- 分解図に部番のない部品及び品番のない部品は供給しません。
- 標準の抵抗、コンデンサーは省略してあります。
  回路図を参照してください。
- ⚠印は安全重要部品です。
  交換する時は必ずティアック指定の部品を使用してください。
- 仕向先
  [J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT
  [E]:EUROPE [UK]:U.K. [A]:AUSTRALIA
  CD-5N:Gold Version, CD-5B:Black Version

5 EXPLODED VIEWS AND PARTS LIST

分解図とパーツリスト

EXPLODED VIEW-1

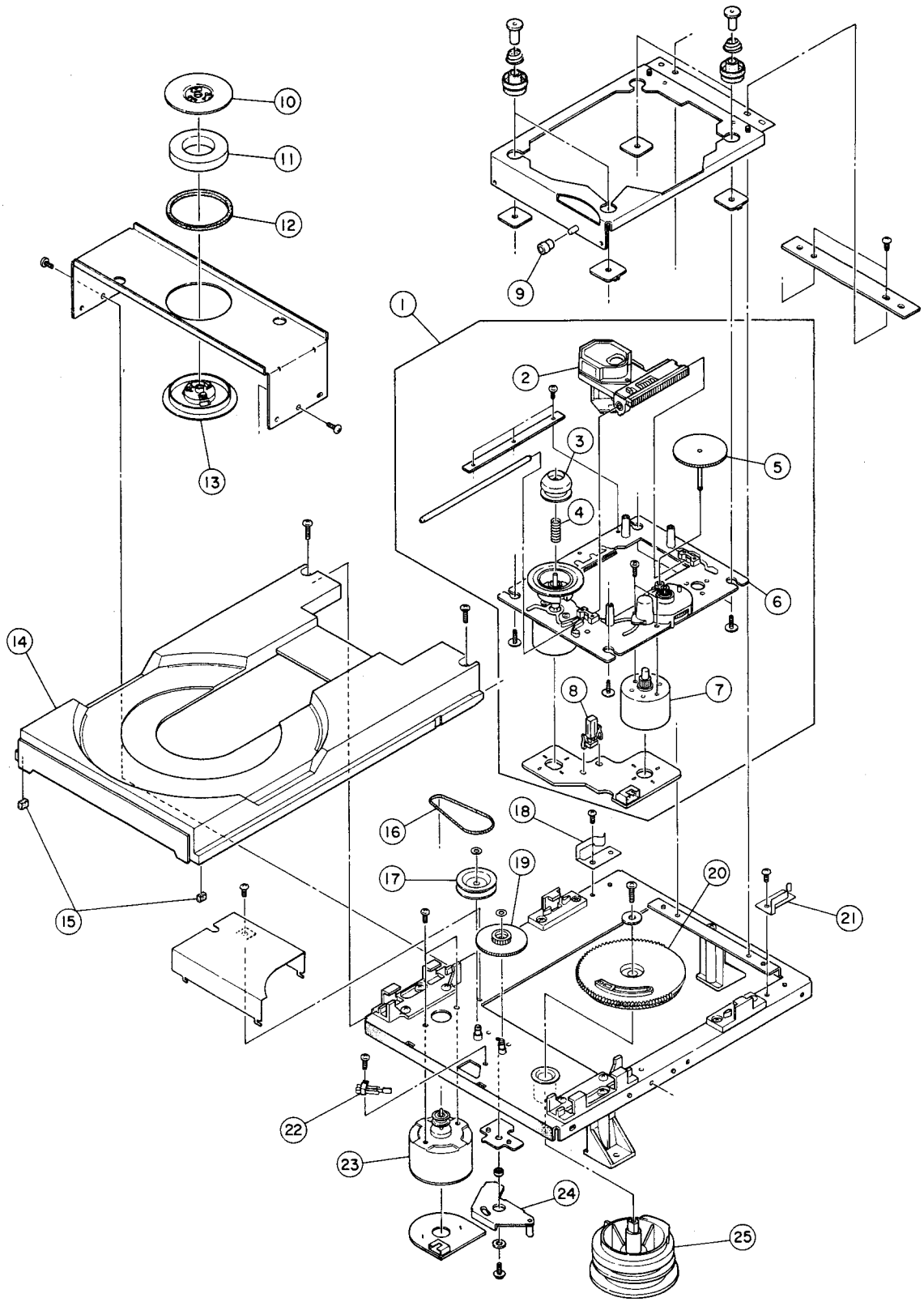


EXPLODED VIEW-1

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1- 1	*9260194902	BONNET ASSY, N	CD-5N
	*9260194802	BONNET ASSY, B	CD-5B
1- 2	*9260193401	SIDE PANEL, L-N	CD-5N
	*9260189901	SIDE PANEL, L-B	CD-5B
1- 3	9260191900	CORNER FOOT, 2-N	CD-5N
	9260191800	CORNER FOOT, 2-B	CD-5B
1- 4	*9260192600	TIP, L	
1- 5	*9260192400	VIS COLLAR, N	
1- 6	9260191700	CORNER FOOT, 1-N	CD-5N
	9260191600	CORNER FOOT, 1-B	CD-5B
1- 7	*9260192500	TIP, S	
1- 8	*9260189402	FRONT ESCUTCHEON, N	CD-5N
	*9260189300	FRONT ESCUTCHEON, B	CD-5B
1- 9	*9145127200	HEADPHONE PCB ASSY	
1-10	*9145127300	POWER SW PCB ASSY	
1-11	9260190800	POWER BUTTON, N	CD-5N
	9260190700	POWER BUTTON, B	CD-5B
1-12	9260193600	BUTTON SPRING	
1-13	*5801533700	EMBLEM, TEAC	CD-5N
	*5801413200	NAME PLATE, TEAC	CD-5B
1-14	*9260190401	FRONT PANEL, N	CD-5N
	*9260190301	FRONT PANEL, B	CD-5B
1-15	*9260192200	FL WINDOW	
1-16	*5801530500	CAP ESCUTCHEON	
1-17	5801530801	PLAY CAP, ST	
1-18	5801530601	PLAY CAP, PL	
1-19	5801530701	PLAY CAP, PA	
1-20	*9260190900	BUTTON HINGE	
1-21	9260191300	O/C BUTTON, N	CD-5N
	9260191200	O/C BUTTON, B	CD-5B
1-22	9260191500	SKIP BUTTON, N	CD-5N
	9260191400	SKIP BUTTON, B	CD-5B
1-23	*9145127101	KEY PCB ASSY	
1-24	*9260193201	SIDE PANEL, R-N	CD-5N
	*9260190201	SIDE PANEL, R-B	CD-5B
1-25	⚠ 9125094000	POWER TRANSFORMER [J]	
	⚠ 9125094200	POWER TRANSFORMER [E,UK,A]	
	⚠ 9125094301	POWER TRANSFORMER [US,C,GE]	
1-26	*9145109204	POWER PCB ASSY [US,C,GE]	
	*9145109214	POWER PCB ASSY [E,UK,A]	
	*9145109224	POWER PCB ASSY [GE]	
	*9145109234	POWER PCB ASSY [J]	
1-27	*9145110210	AUDIO PCB ASSY	
1-28	*9278256400	CD MECHA.ASSY	
1-29	*9260126400	CLAMPER (A)	
1-30	*9260191100	TRAY PANEL, N	CD-5N
	*9260191000	TRAY PANEL, B	CD-5B
1-31	⚠ 5350019300	AC CORD [GE]	
	⚠ 9109025710	AC CORD [E]	
	⚠ 9109026010	AC CORD [A]	
	⚠ 9109026111	AC CORD [J]	
	⚠ 9109026910	AC CORD [US,C,GE]	
	⚠ 9109027300	AC CORD [UK]	
1-32	⚠ 9121000102	BUSHING, #2271	
1-33	*9145127400	SELECTOR SW PCB ASSY [US,C,GE]	
1-34	*9260160801	SUB CHASSIS (B)	
1-35	*9145110109	SERVO PCB ASSY	
1-36	*9A04899000	REAR COVER	
1-37	----------	MAIN CHASSIS	
1-38	*9260160600	PCB SUPPORT, H=16	
1-39	*9260189600	BOTTOM PLATE	
1-40	*9260202900	TRANS BRACKET	

(Continued on page 15)

EXPLODED VIEW-2



EXPLODED VIEW-2

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	----------	DRIVE UNIT	
2- 2	9278321500	PICK UP, KSS-210A	
2- 3	*9278321400	CENTER RING (LO)	
2- 4	*9278321300	SPRING (S)	
2- 5	9278321600	TOOTH GEAR (A)	
2- 6	9278321700	TT CHASSIS ASSY (MB)	
2- 7	9278321800	MOTOR GEAR ASSY (MR)	
2- 8	9278322000	SW, LEAF	
2- 9	*9278317400	ROLLER (SP)	
2-10	*9278317000	CHUCKING YOKE (SP)	
2-11	*9278316900	MAGNET	
2-12	*9278316800	DAMPER	
2-13	9278316500	CHUCKING PULLEY (AU)	
2-14	*9278316200	TRAY (SP)	
2-15	*9278316300	DAMPER	
2-16	9278318700	LM BELT	
2-17	9278318900	LOADING PULLEY	
2-18	*9278319300	TRAY HOLDER (R) SP	
2-19	9278319100	MIDDLE GEAR (SP)	
2-20	9278318500	DRIVER GEAR (SP)	
2-21	*9278319400	TRAY HOLDER (L) SP	
2-22	9278320000	SW, LEAF	
2-23	9278321100	MOTOR ASSY	
2-24	*9278320500	STOPPER LINK ASSY (AU)	
2-25	9278320300	CONTROL CAM (SP)	

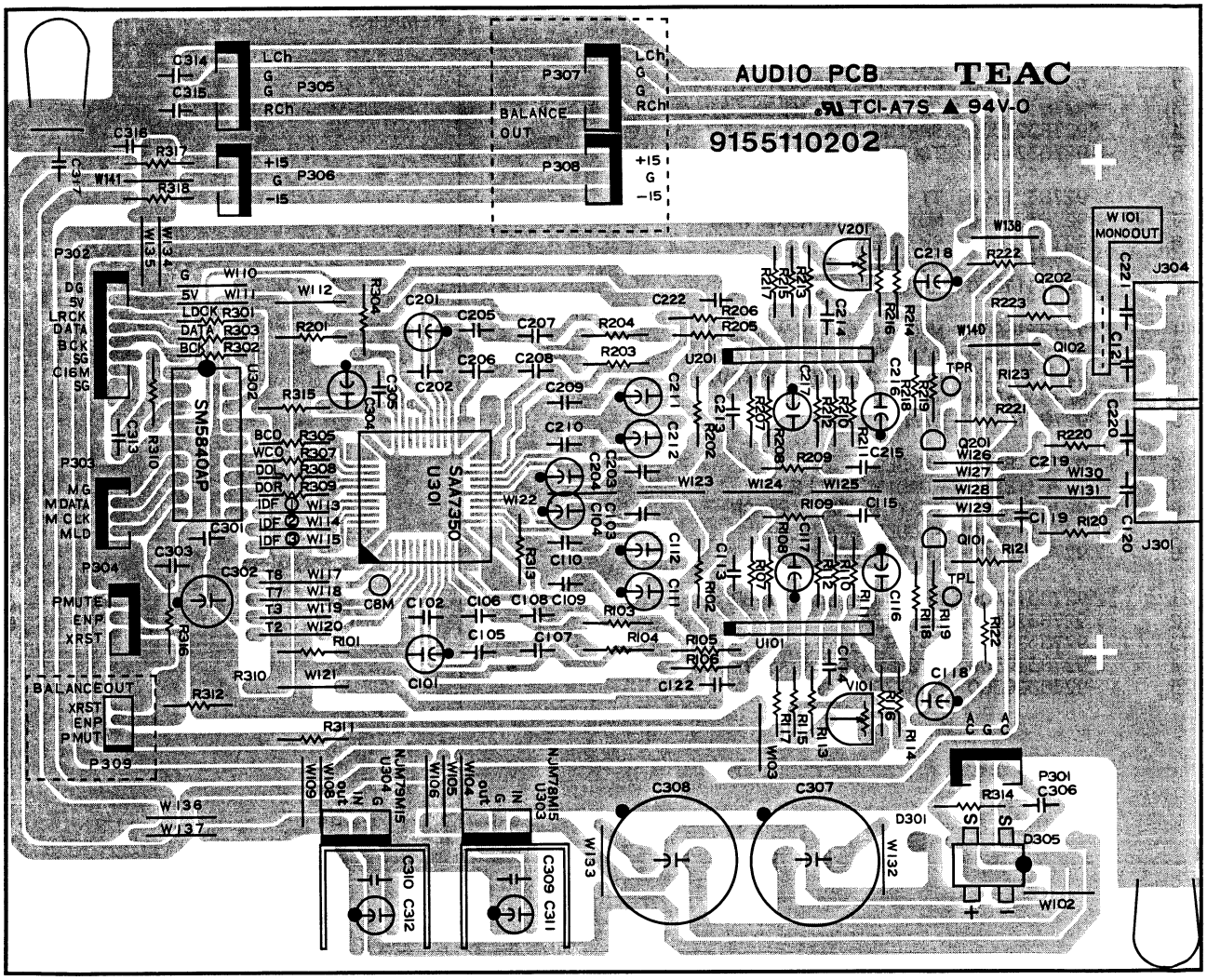
EXPLODED VIEW-1 (Continued from page 13)

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1-41	*9783593008	SCREW, C-TITE M3X8 (NI-BLK)	
1-42	*9783503008	SCREW, HEX RTT-S M3X8 (GLD)	
1-43	*9783203006	SCREW, BTT-S M3X6	
1-44	*9783603008	SCREW, BTT-P M3X8	
1-45	*9783413008	SCREW, CAP-P M3X8 (BLK)	
1-46	*9783294008	SCREW, BTB-S M4X8	
1-47	*9783103006	SCREW, CAP-S M3X6	
1-48	*9788823059	WIRE CLAMPER	
1-49	*9783102606	SCREW, CAP-S M2.6X6	
1-50	*9783203008	SCREW, BTT-S M3X8	
1-51	*9783233012	SCREW, BTT-S M3X12 (BLK)	
1-52	*9783233006	SCREW, BTT-S M3X6 (BLK)	
1-53	*9783613008	SCREW, BTT-P M3X8 (BLK)	
1-54	*9783613006	SCREW, BTT-P M3X6 (BLK)	

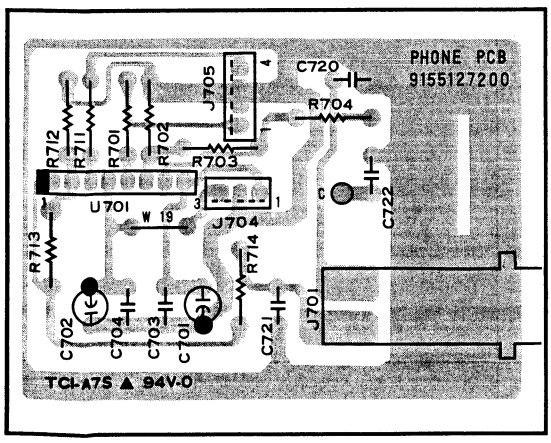
6 PC BOARDS AND PARTS LIST

基板図とパーツリスト

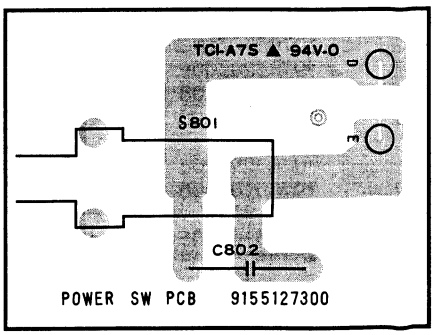
AUDIO PCB



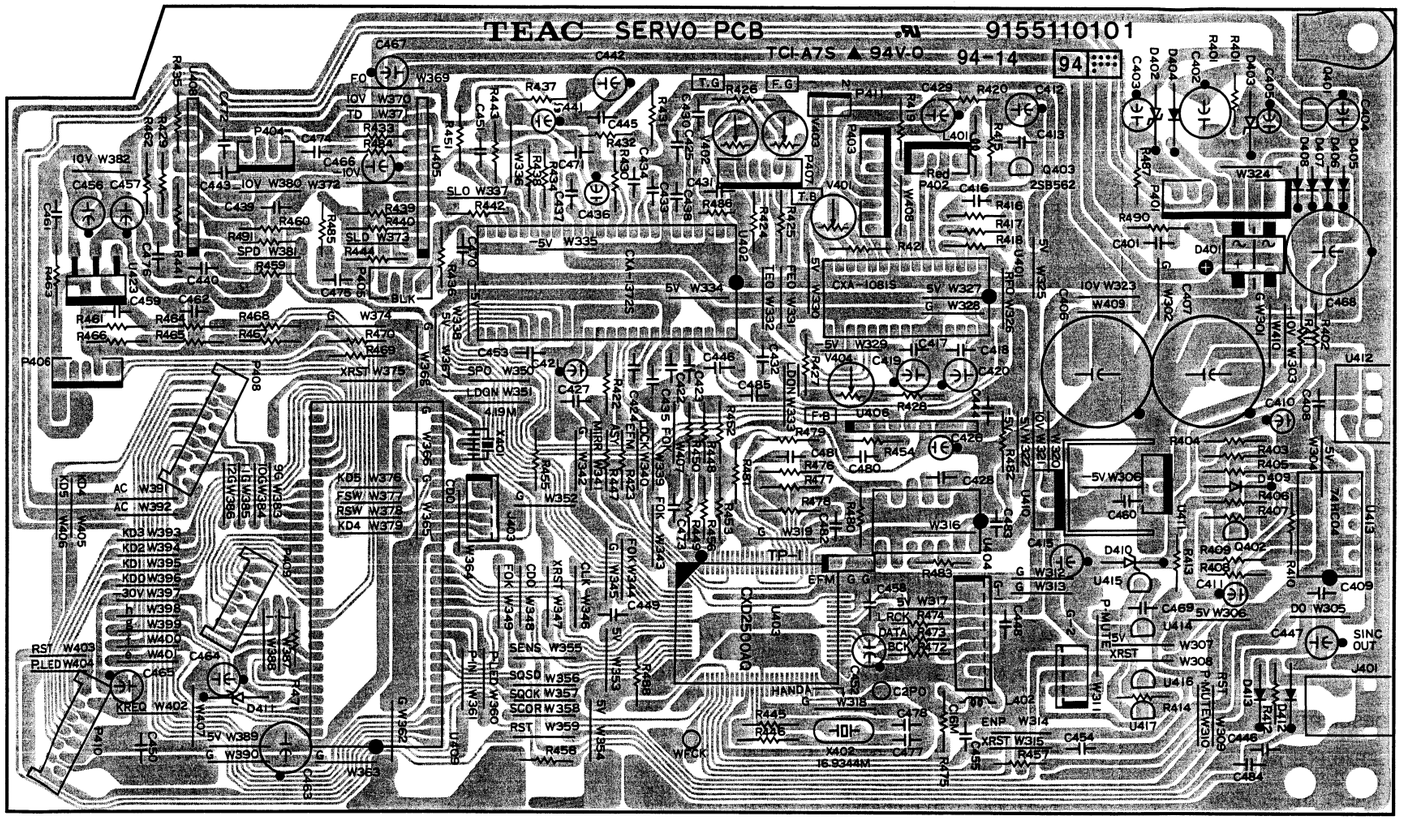
PHONE PCB



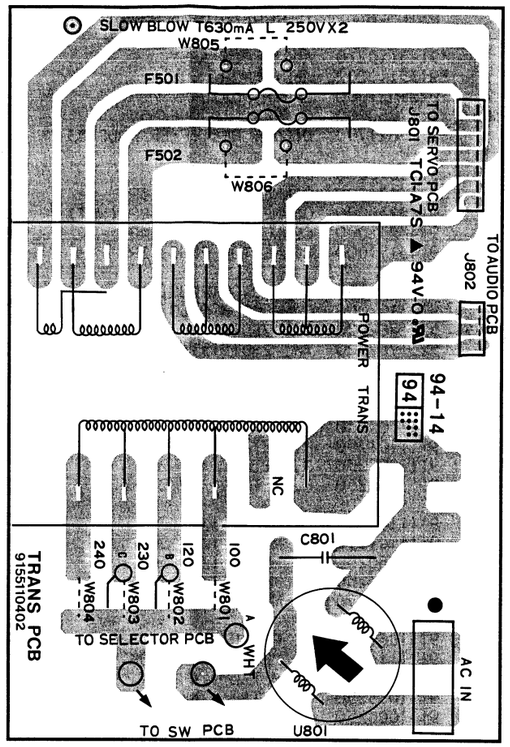
POWER SW PCB



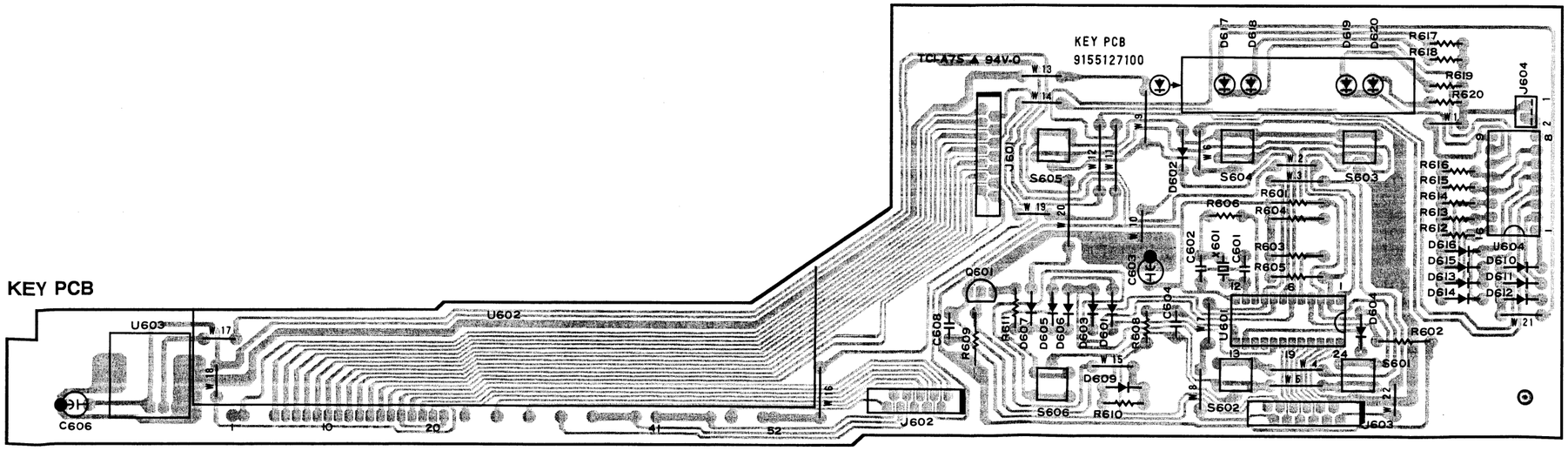
SERVO PCB



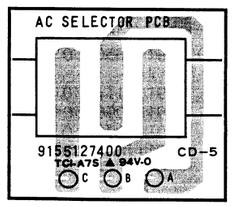
TRANS PCB



KEY PCB



AC SELECTOR PCB



AUDIO PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145110210	AUDIO PCB ASSY
	*9155110202	AUDIO PCB
	9229021000	EARTH PLATE A
C307,308	⚠ 9117260000	C, ELEC 1000UF/35V
D305	⚠ 9165021700	DIODE, RECTIFIER PBDF103
J301,304	9143870000	PIN JACK, 2P
P301	9143171000	CONNECTOR PLUG, 3P
P302	9143236000	CONNECTOR PLUG, 8P (WHT)
P303	9143232000	CONNECTOR PLUG, 4P
P304	9143171000	CONNECTOR PLUG, 3P
P305	9143172000	CONNECTOR PLUG, 4P
P306	9143171000	CONNECTOR PLUG, 3P
Q101,201	5231762520	TR, 2SD1915TA
Q102,202	5231762520	TR, 2SD1915TA
R101,201	9111006250	R, METAL 1/4W 3.9
R102,202	9111042250	R, METAL 1/4W 100
R103,203	9111101250	R, METAL 1/4W 30K
R104,204	9111101250	R, METAL 1/4W 30K
R105,205	9111097250	R, METAL 1/4W 20K
R106,206	9111097250	R, METAL 1/4W 20K
R107,207	9111101250	R, METAL 1/4W 30K
R108,208	9111101250	R, METAL 1/4W 30K
R109,209	9111060250	R, METAL 1/4W 560
R110,210	9111063250	R, METAL 1/4W 750
R111,211	9111060250	R, METAL 1/4W 560
R112,212	9111066250	R, METAL 1/4W 1K
R113,213	9111114250	R, METAL 1/4W 100K
R114,214	9111094250	R, METAL 1/4W 15K
R115,215	9111086250	R, METAL 1/4W 6.8K
R116,216	9111000250	R, METAL 1/4W 2.2
R117,217	9111000250	R, METAL 1/4W 2.2
R118,218	9111096250	R, METAL 1/4W 18K
R119,219	9111066250	R, METAL 1/4W 1K
R120,220	9111042250	R, METAL 1/4W 100
R121,221	9111066250	R, METAL 1/4W 1K
R122,222	9111074250	R, METAL 1/4W 2.2K
R123,223	9111066250	R, METAL 1/4W 1K
R301-303	9111042250	R, METAL 1/4W 100
R304,305	9111050250	R, METAL 1/4W 220
R307-309	9111050250	R, METAL 1/4W 220
R310	9111114250	R, METAL 1/4W 100K
R311,312	9111090250	R, METAL 1/4W 10K
R313	9111099250	R, METAL 1/4W 24K
R314	9111066250	R, METAL 1/4W 1K
R315	9111016250	R, METAL 1/4W 10
R316	9111066250	R, METAL 1/4W 1K
R317,318	9111000250	R, METAL 1/4W 2.2
TPL ,TPR	9160012600	PIN, TP
U101,201	9167025800	IC, NJM2114L
U301	5220099700	IC, SAA7350GP
U302	5220099800	IC, SM5840AP
U302	5347026200	SHEILD SHEET, 19X5
U303	⚠ 9167015600	IC, NJM78M15FA
U304	⚠ 9167015700	IC, NJM79M15FA
V101,201	9112059800	VR, SEMI-FIXED 10K (B)

HEADPHONE PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145127200	HEADPHONE PCB ASSY
	*9155127200	HEADPHONE PCB
J701	9143258000	CONNECTOR PLUG, 10P
R701	9111106250	R, METAL 1/4W 47K
R702	9111101250	R, METAL 1/4W 30K
R703	9111096250	R, METAL 1/4W 18K
R704	9111042250	R, METAL 1/4W 100
R711	9111106250	R, METAL 1/4W 47K
R712	9111101250	R, METAL 1/4W 30K
R713	9111096250	R, METAL 1/4W 18K
R714	9111042250	R, METAL 1/4W 100
U701	9167015800	IC, NJM4565L

POWER SW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145127300	POWER SW PCB ASSY
	*9155127300	POWER SW PCB
	⚠ 5267704100	SPARK KILLER 0.0047UF/250V
	⚠ 9135031500	POWER SW

SERVO PCB ASSY

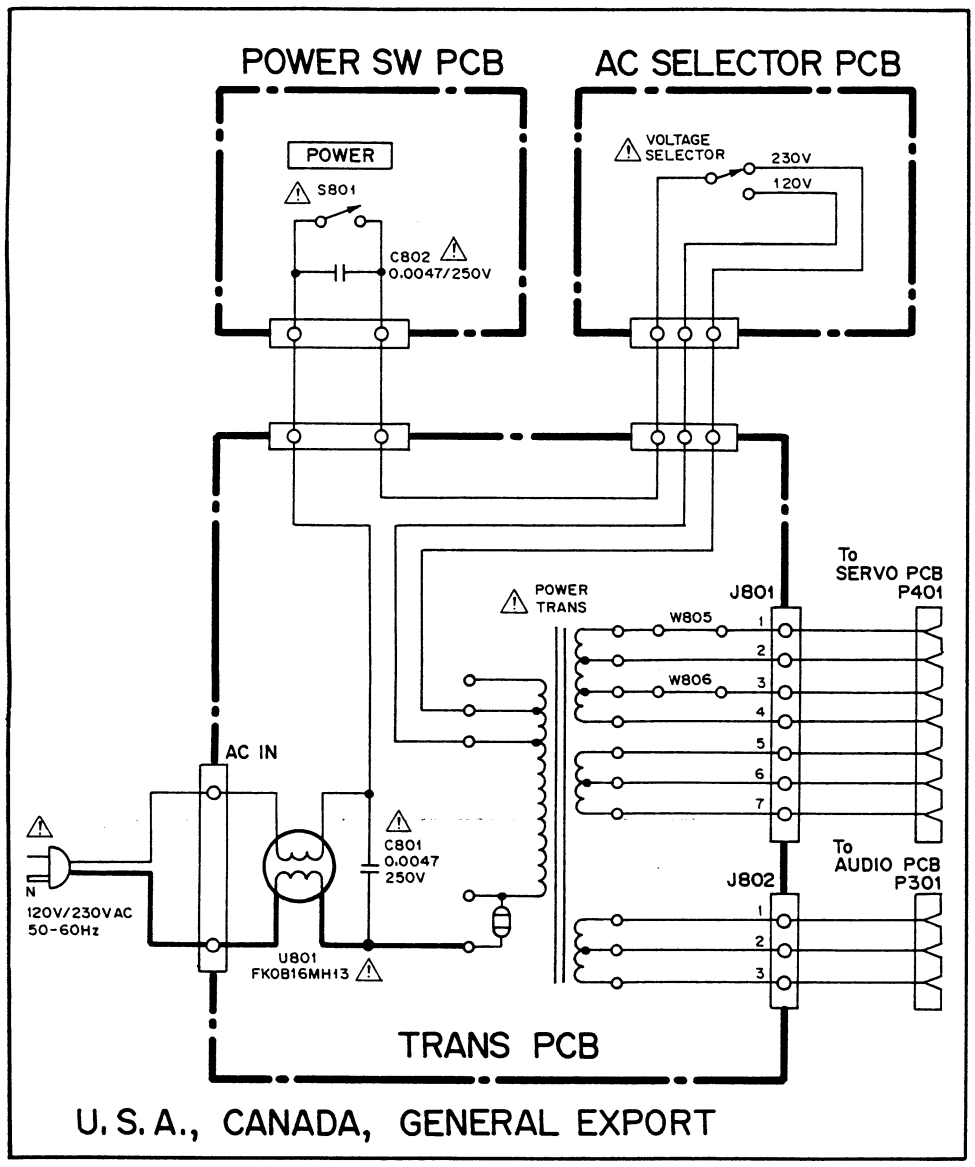
REF.NO.	PARTS NO.	DESCRIPTION
	*9145110109	SERVO PCB ASSY
	*9155110101	SERVO PCB
	*9783213008	SCREW, BTT-B M3X8
	9229021000	EARTH PLATE A
C402	⚠ 9117186020	C, ELEC 47UF/50V
C406	⚠ 9117302200	C, ELEC 4700UF/16V
C407	⚠ 9117259100	C, ELEC 1000UF/25V
C468	⚠ 9117273510	C, ELEC 2200UF/16V
D401	⚠ 9165021700	DIODE, RECTIFIER PBDF103
D402	9166036350	ZENER DIODE, RD6.2ESB1
D403	9166037850	ZENER DIODE, RD33ESB1
D404	⚠ 9165020508	DIODE, 1N4003
D405-408	⚠ 9165020531	DIODE, 1N4003
D409	9165020250	DIODE, 1S1555
D410	9166036350	ZENER DIODE, RD6.2ESB1
D411	9166036750	ZENER DIODE, RD 9.1ESB1
D412,413	⚠ 9165020250	DIODE, 1S1555
EFM	9160012601	PIN, TP
H401	9260069801	HEAT SINK
J401	9143312000	JACK, MINIATURE
L401	9122019250	COIL, 4.7UH
L402	14727478	INDUCTOR FERRITE BEADS
P401	9143175000	CONNECTOR PLUG, 7P (WHT)
P402	9143232020	CONNECTOR PLUG, 4P (RED)
P403	9143236000	CONNECTOR PLUG, 8P (WHT)

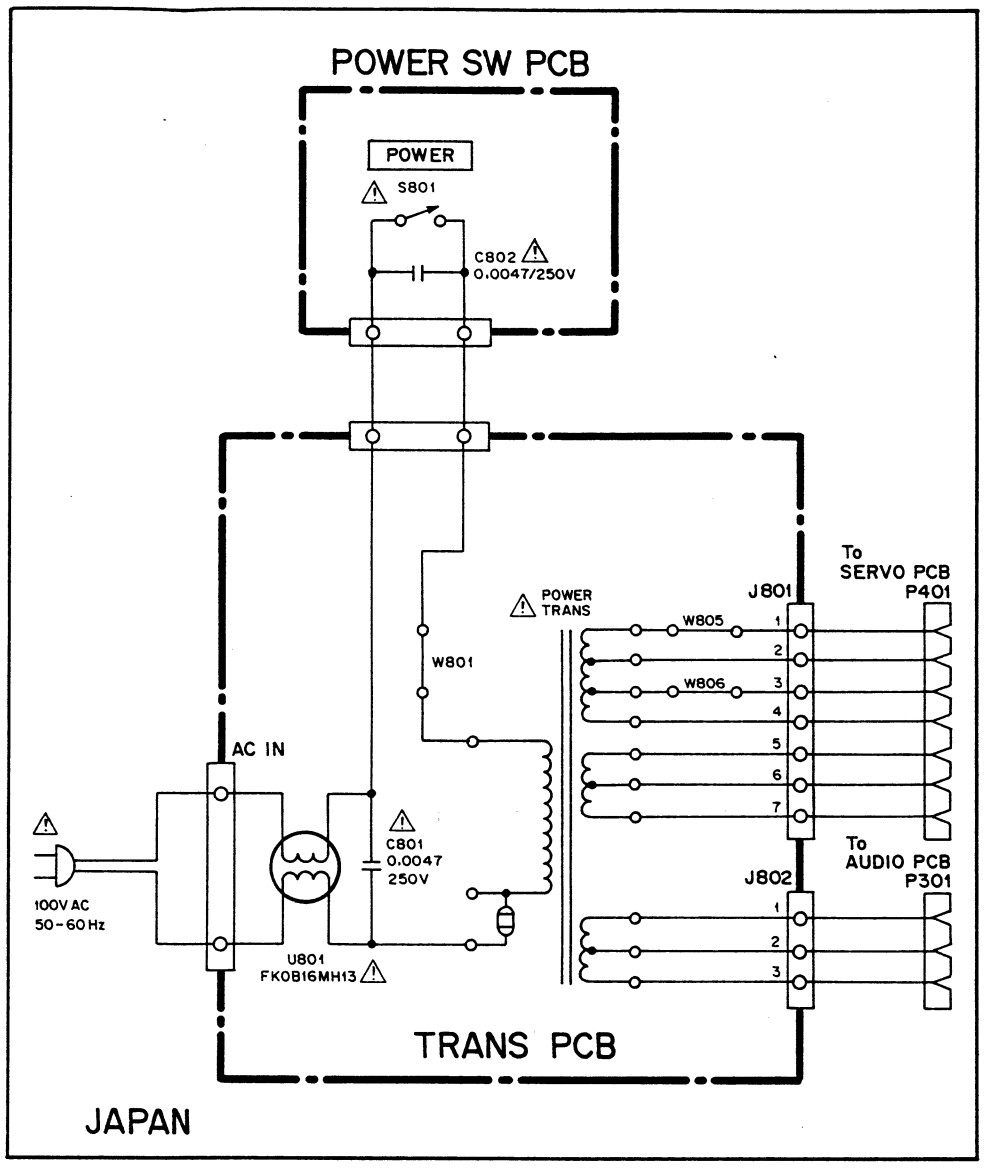
SERVO PCB ASSY

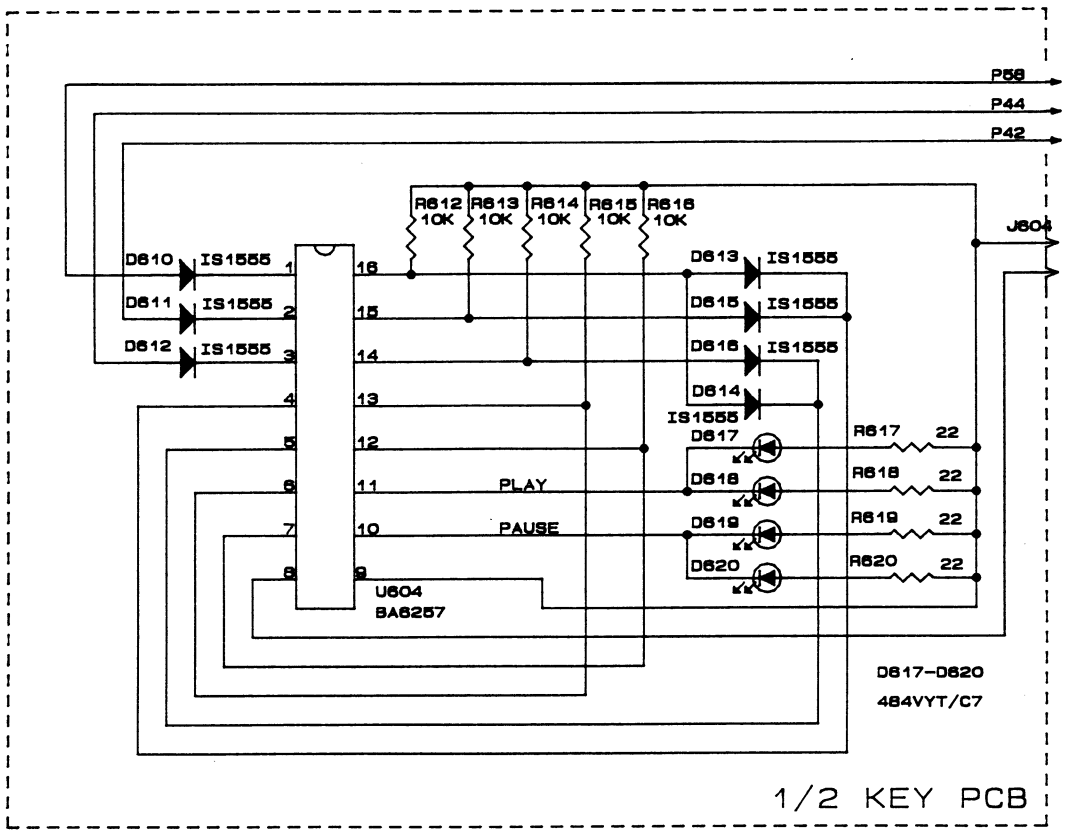
REF.NO.	PARTS NO.	DESCRIPTION
P404	9143232000	CONNECTOR PLUG, 4P
P405	9143232010	CONNECTOR PLUG, 4P (BLK)
P406	9143233000	CONNECTOR PLUG, 5P (WHT)
P407	9143234000	CONNECTOR PLUG, 6P (WHT)
P408	5336296400	CONNECTOR SOCKET
P409	5336296000	CONNECTOR SOCKET
P410	5336296300	CONNECTOR SOCKET
P411	9143170000	CONNECTOR PLUG, 2P
Q401	⚠ 9163202400	TR, 2SB562C
Q402	9163310520	TR, 2SC1740SLN/S
Q403	9163202400	TR, 2SB562C
R401	9111090250	R, METAL 1/4W 10K
R402	9111066250	R, METAL 1/4W 1K
R403,404	9111078250	R, METAL 1/4W 3.3K
R405,406	9111090250	R, METAL 1/4W 10K
R407	9111106250	R, METAL 1/4W 47K
R408	9111042250	R, METAL 1/4W 100
R409	9111114250	R, METAL 1/4W 100K
R410	9111138250	R, METAL 1/4W 1M
R411	9111050250	R, METAL 1/4W 220
R412	9111076250	R, METAL 1/4W 2.7K
R413	9111066250	R, METAL 1/4W 1K
R414	9111090250	R, METAL 1/4W 10K
R415	9111024250	R, METAL 1/4W 22
R416	9111074250	R, METAL 1/4W 2.2K
R417	9111088250	R, METAL 1/4W 8.2K
R418	9111096250	R, METAL 1/4W 18K
R419,420	9111042250	R, METAL 1/4W 100
R421	9111088250	R, METAL 1/4W 8.2K
R422	9111114250	R, METAL 1/4W 100K
R423	9111066250	R, METAL 1/4W 1K
R424,425	9111082250	R, METAL 1/4W 4.7K
R426	9111090250	R, METAL 1/4W 10K
R427,428	9111096250	R, METAL 1/4W 18K
R429	9111000250	R, METAL 1/4W 2.2
R430	9111117250	R, METAL 1/4W 130K
R431	9111082250	R, METAL 1/4W 4.7K
R432	9111074250	R, METAL 1/4W 2.2K
R433	9111000250	R, METAL 1/4W 2.2
R434	9111112250	R, METAL 1/4W 82K
R435	9111082250	R, METAL 1/4W 4.7K
R436	9111114250	R, METAL 1/4W 100K
R437	9111094250	R, METAL 1/4W 15K
R438	9111112250	R, METAL 1/4W 82K
R439	9111194250	R, METAL 1/4W 680K
R440,441	9111000250	R, METAL 1/4W 2.2
R442	9111082250	R, METAL 1/4W 4.7K
R443	9111131250	R, METAL 1/4W 510K
R444	9111106250	R, METAL 1/4W 47K
R445	9111138250	R, METAL 1/4W 1M
R446	9111050250	R, METAL 1/4W 220
R447	9111090250	R, METAL 1/4W 10K
R448	9111118250	R, METAL 1/4W 150K
R449	9111102250	R, METAL 1/4W 33K
R450	9111098250	R, METAL 1/4W 22K

SERVO PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
R451	9111116250	R, METAL 1/4W 120K
R452	9111113250	R, METAL 1/4W 91K
R453	9111090250	R, METAL 1/4W 10K
R454	9111118250	R, METAL 1/4W 150K
R455	9111066250	R, METAL 1/4W 1K
R456	9111090250	R, METAL 1/4W 10K
R457	9111050250	R, METAL 1/4W 220
R458	9111096250	R, METAL 1/4W 18K
R459	9111016250	R, METAL 1/4W 10
R460	9111082250	R, METAL 1/4W 4.7K
R461	9111116250	R, METAL 1/4W 120K
R462,463	9111016250	R, METAL 1/4W 10
R464,465	9111114250	R, METAL 1/4W 100K
R466	9111116250	R, METAL 1/4W 120K
R467-470	9111066250	R, METAL 1/4W 1K
R471	9111110250	R, METAL 1/4W 68K
R472-475	9111050250	R, METAL 1/4W 220
R476	9111078250	R, METAL 1/4W 3.3K
R477	9111086250	R, METAL 1/4W 6.8K
R478	9111090250	R, METAL 1/4W 10K
R479	9111050250	R, METAL 1/4W 220
R480,481	9111082250	R, METAL 1/4W 4.7K
R482	9111050250	R, METAL 1/4W 220
R483	9111062250	R, METAL 1/4W 680
R484,485	9111016250	R, METAL 1/4W 10
R487	9111090250	R, METAL 1/4W 10K
R488	9111050250	R, METAL 1/4W 220
R490	9111066250	R, METAL 1/4W 1K
R491	9111090250	R, METAL 1/4W 10K
TP 1	9160012601	PIN, TP
U401	9167023800	IC, CXA1081S
U402	9167024200	IC, CXA1372S
U403	9167024100	IC, CXD2500BQ
U404	13441995	IC, SN74LS628N
U405	9167022000	IC, TA8410AK
U406	9167015800	IC, NJM4565L
U408	9167022000	IC, TA8410AK
U409	5220829600	IC, UPD75212ACW-A38
U410	⚠ 9167021710	IC, NJM78M05FA
U411	⚠ 9167021700	IC, NJM79M05FA
U412	9143321000	OPT TRANSMITTING MODULE
U413	9167014700	IC, UPD74HC04C
U414	9163313220	TR, DTC114ES
U415	9163011420	TR, DTA114ES
U416	9163313220	TR, DTC114ES
U417	9163011420	TR, DTA114ES
U423	9167022500	IC, LA6500
V601-603	9112057000	VR, SEMI-FIXED 22K (B)
V604	9112056000	VR, SEMI-FIXED 4.7K (B)
X401	5347017700	OSC, CERAMIC
X402	5347010900	OSC, CRYSTAL 16.9344MHZ







INSTRUCTIONS FOR SERVICE PERSONNEL

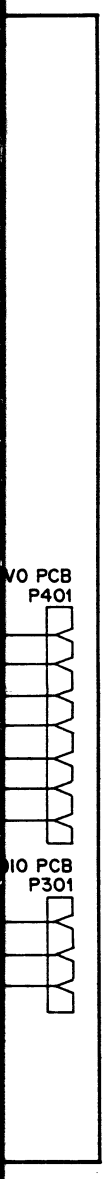
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

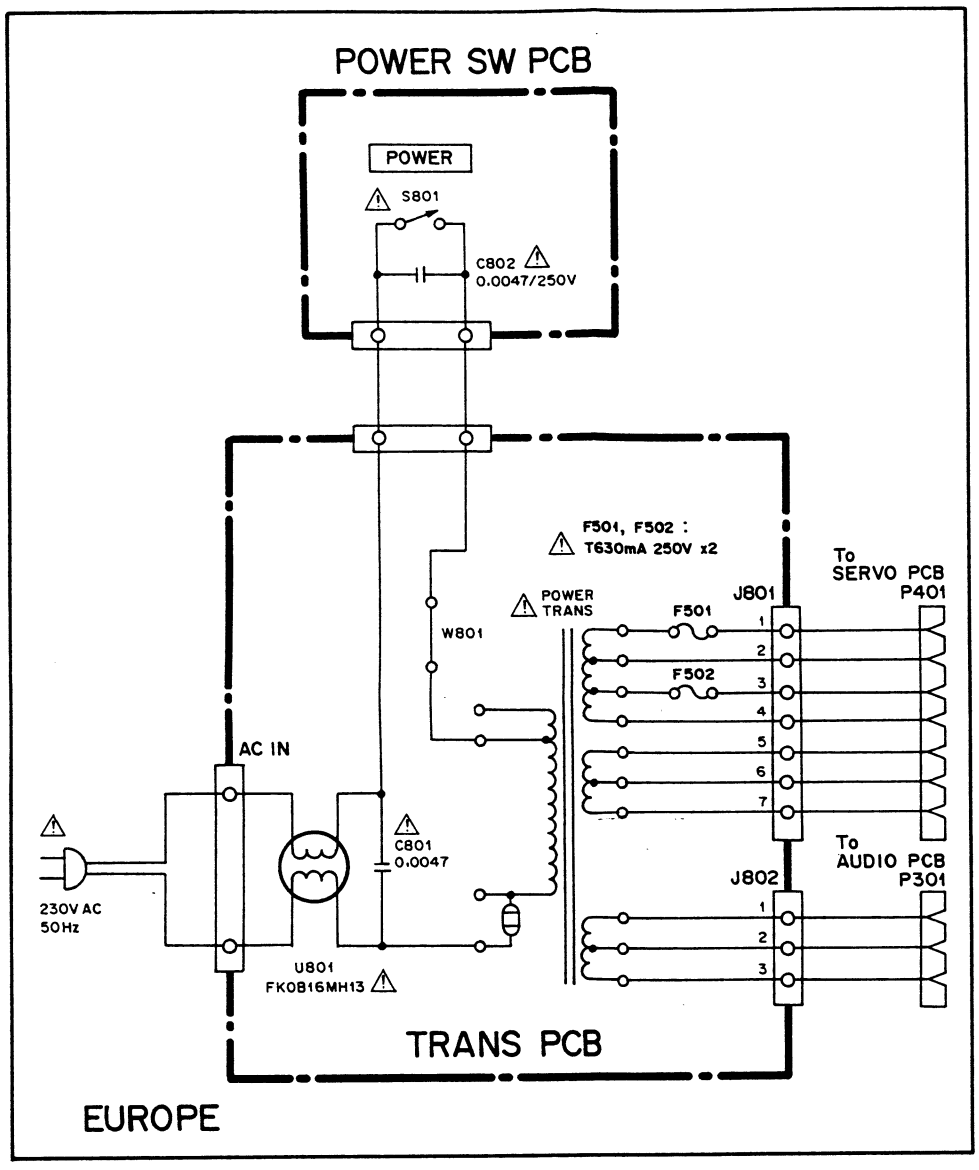
注意

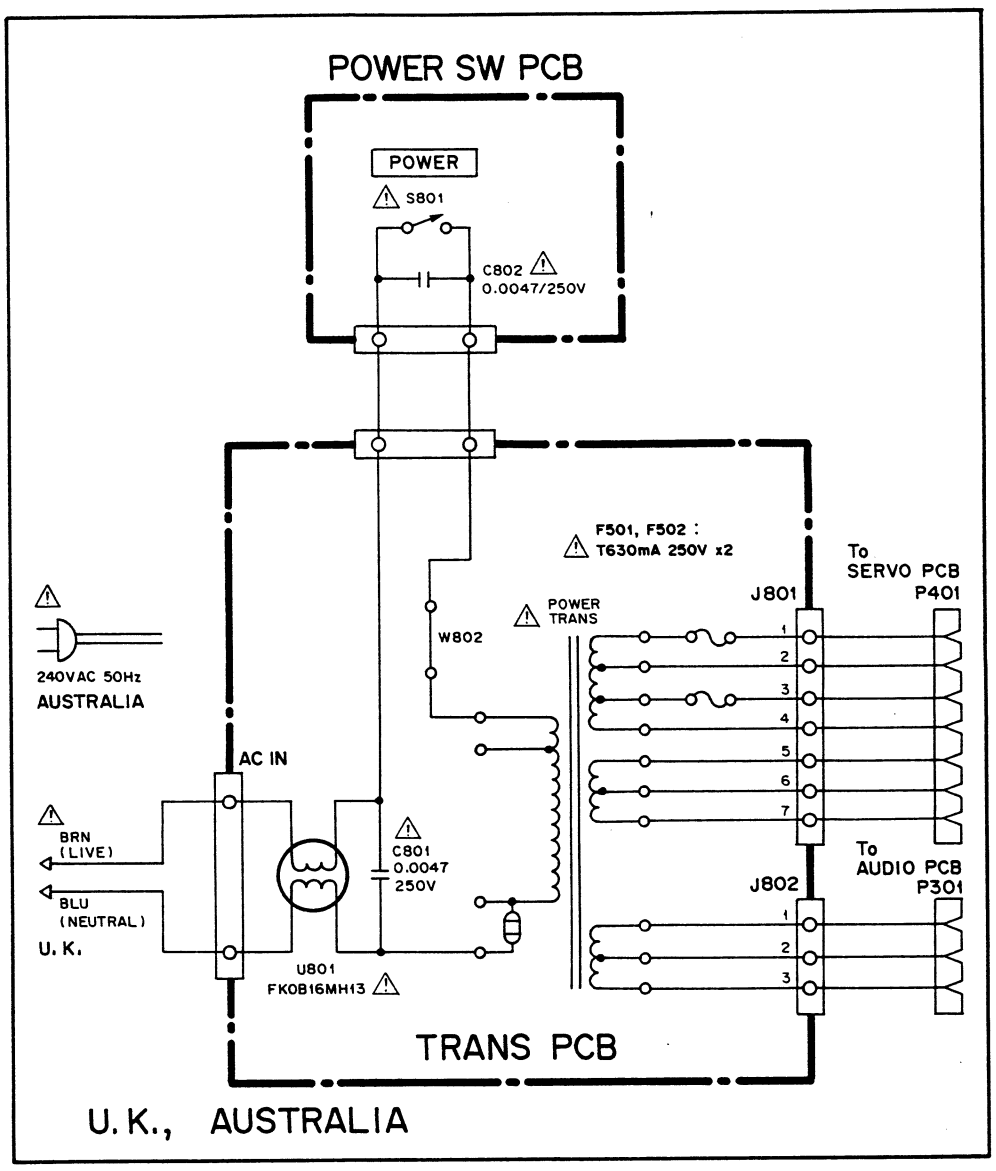
1. 抵抗の単位はΩ（k＝kΩ．M＝MΩ）です。
2. コンデンサの単位はμF（p＝pF）です。
3. ⚠マークのある部品は安全規格重要部品です。交換するときは必ずティアック指定の部品を使用してください。

NOTES:

1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. ⚠ 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.







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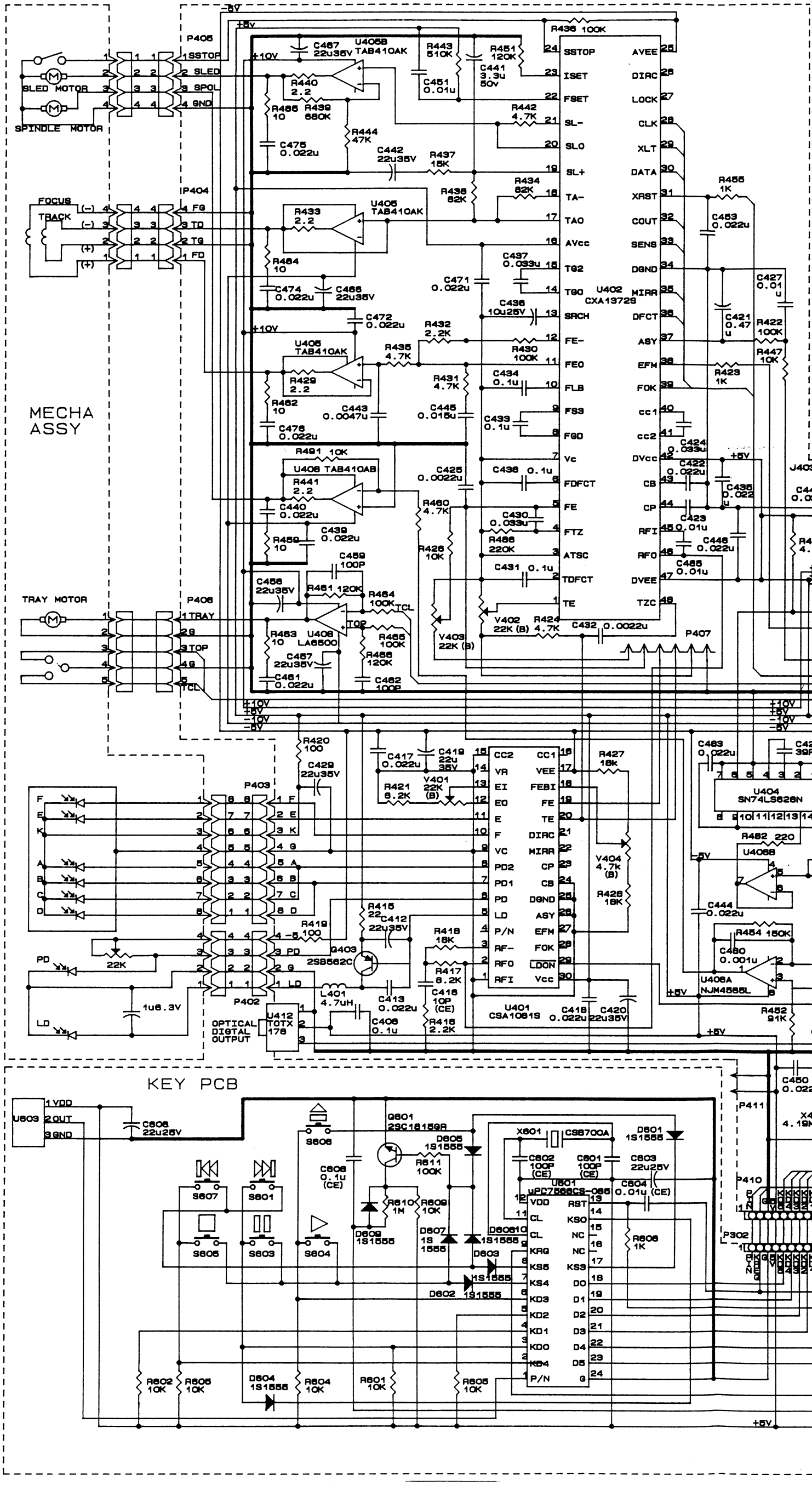


INSTRUCTIONS FOR SERVICE PERSONNEL

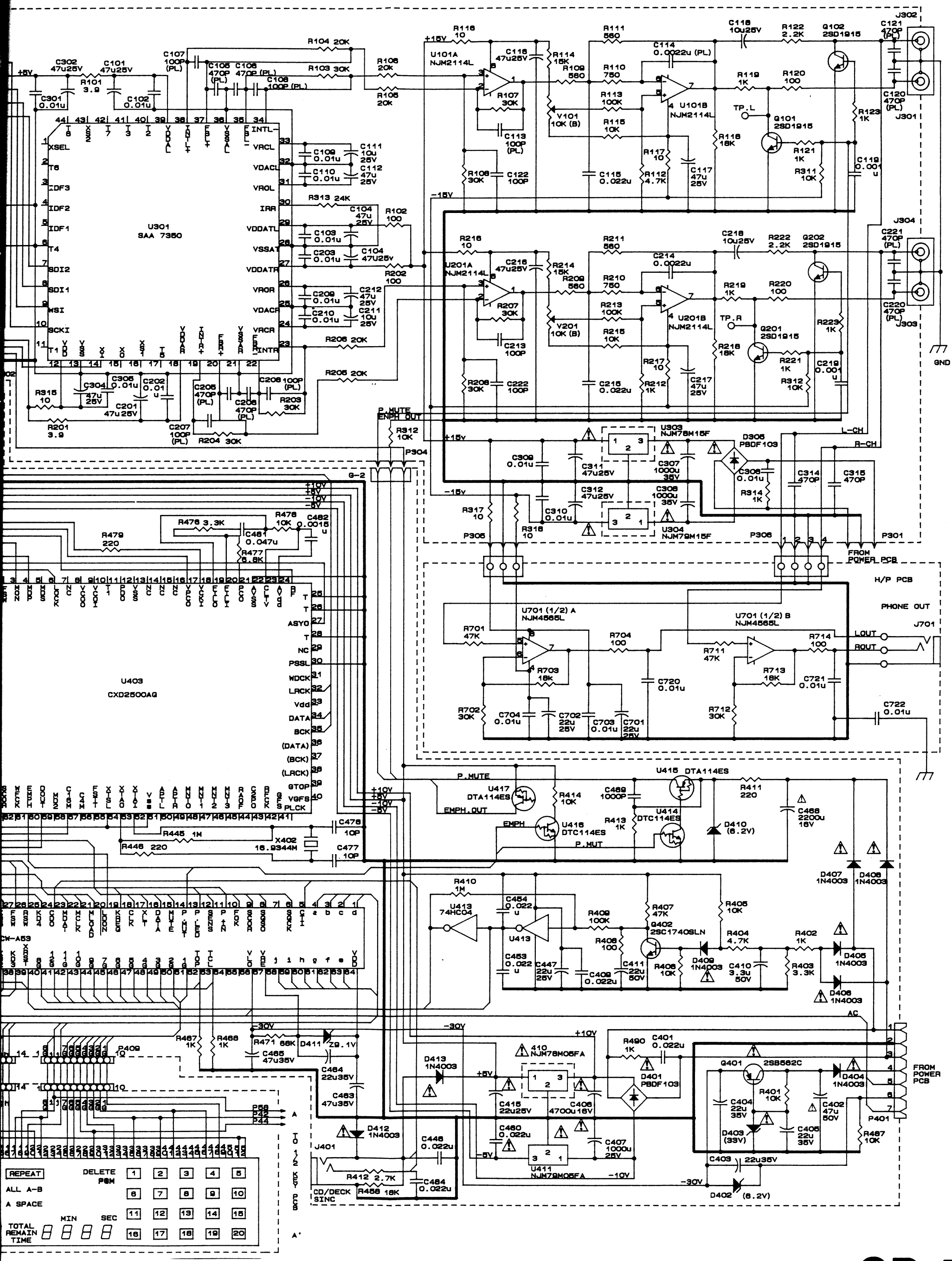
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES:

1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. ⚠ 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. ⚠マークのある部品は安全規格重要部品です。
交換するときは必ずティアック指定の部品を使用してください。



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KEY PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145127101	KEY PCB ASSY
	*9155127100	KEY PCB
	*9260192000	LED HOLDER
	*9260194700	FL CUSHION, 18X12X7T
D601-607	9165020250	DIODE, 1S1555
D609-616	9165020250	DIODE, 1S1555
D617-620	9174016200	LED, 484VYT/C7 (YEL)
J601	5340007400	WIRE HOLDER, 14P
J601	9107064600	FLAT CABLE, P1.25M14-150
J602	5340007000	WIRE HOLDER, 10P
J602	9107064700	FLAT CABLE, P1.25M10-150
J603	5340007300	WIRE HOLDER, 13P
J603	9107064800	FLAT CABLE, P1.25M13-150
Q601	9163309420	TR, 2SC1815GR
S601-606	9136000502	SW, TACT
U601	5220812900	IC, UPD7566CS-085
U602	5347007800	FL DISPLAY, FIP14GM8
U603	9151001200	REMOCON RECEIVER, LTM90524
U604	9167025100	IC, BA6257
X601	5347006500	OSC, CERAMIC CSB700A

POWER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145109204	POWER PCB ASSY [US,C,GE]
	*9145109214	POWER PCB ASSY [E,UK,A]
	*9145109224	POWER PCB ASSY [GE]
	*9145109234	POWER PCB ASSY [J]
	*9155110402	TRANS PCB
	5327007200	TERMINAL LAPPING, 2P
	9150018000	FUSE HOLDER [E,UK,A]
C801	⚠ 5267704100	SPARK KILLER 0.0047UF/250V
F501,502	⚠ 5142185000	FUSE, 630MA/250V [E,UK,A]
U801	⚠ 5292806300	FILTER, FKOB16MH13

SELECTOR SW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145127400	SELECTOR SW PCB ASSY [US,C,GE]
	*9155127400	AC SELECTOR SW PCB
	⚠ 9134010700	AC SELECTOR SW

INCLUDED ACCESSORIES 付属品

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*9101396900	OWNER'S MANUAL, JAPANESE [J]	
	*9101397000	OWNER'S MANUAL, 6-MULTI [EXCEPT J]	
	*9109027101	IN-OUTPUT CORD	
	*9151002400	REMOTE CONTROL UNIT, RC-530	CD-5N
	*9151002300	REMOTE CONTROL UNIT, RC-529	CD-5B
	*5347016500	BATTERY, UM-4	
	*9260203000	WRENCHES	
	*9260195000	HOLDER SET ASSY	