

TASCAM
TEAC Professional Division

SERVICE MANUAL

CD-RW700

CD Rewritable Recorder

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Effective : May, 2000

S-0020A

1. 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 a class 1 laser product. There is no 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**

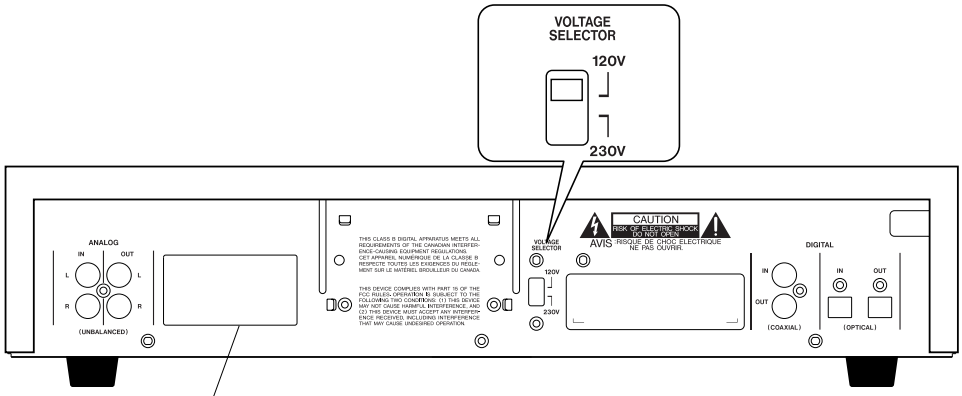
USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Voltage Conversion

(General export models only)

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 230V or 120V position according to your area.





For U.S.A.

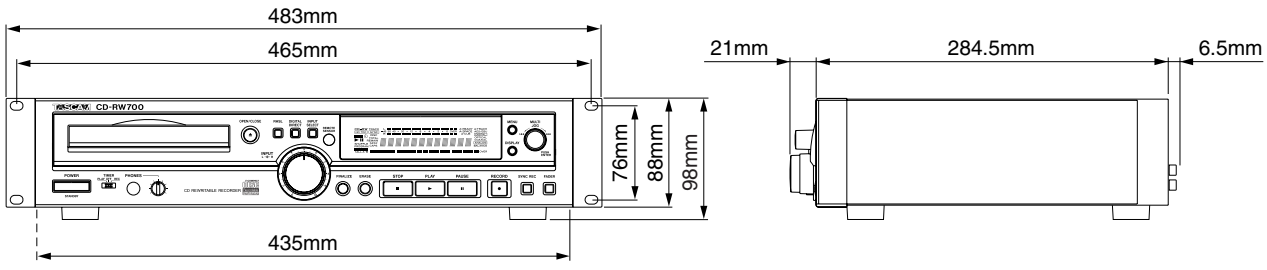
Optical pickup: Type : KRS-202A or KRS-220B
Manufacturer : SONY Corporation
Laser output : Less than 0.1 mW (Play) and 32 mW (Record) on the objective lens
Wavelength : 777–787 nm

2. SPECIFICATIONS

仕様

Recording media type:	CD-R, CD-R-DA CD-RW, CD-RW-DA
Recording resolution:	16-bit linear
Recording sampling frequency:	44.1 kHz
Frequency convertor input:	32 kHz - 48 kHz
Frequency response:	20 Hz - 20 kHz (playback ±0.5 dB, recording ±1.0 dB)
S/N ratio:	98 dB (playback), 92 dB (recording)
Dynamic range:	94 dB (playback), 92 dB (recording)
Total harmonic distortion:	0.004 % (playback), 0.005 % (recording)
Channel separation:	90 dB (playback : 1 kHz), 80 dB (recording : 1 kHz)
Wow & flutter:	Unmeasurable (< 0.001 %)
Analog inputs:	Unbalanced RCA
Nominal input level:	-10 dBV (FS-16dB)
Maximum input level:	+6 dBV
Input impedance:	33 kΩ (unbalanced)
Analog outputs:	Unbalanced RCA
Nominal output level:	-10 dBV (FS-16dB)
Maximum output level:	+6 dBV
Ouput impedance:	800 Ω (unbalanced)
Headphone output:	6 mm (1/4") stereo
Ouput level:	35 mW + 35 mW (into 32 Ω)
Digital input:	
COAXIAL:	RCA pin, IEC60958 TYPE II
OPTICAL:	TOSLINK, IEC60958 TYPE II
Digital output:	
COAXIAL:	RCA pin, IEC60958 TYPE II
OPTICAL:	TOSLINK, IEC60958 TYPE II
Voltage requirements:	USA/Canada 120 VAC, 60 Hz U.K./Europe 230 VAC, 50 Hz Australia 240 VAC, 50 Hz General export 120/230 VAC,60 Hz
Power consumption:	27 W
Dimensions w x h x d:	483 x 98 x 312 (mm) 19 x 3.9 x 12.3 (in)
Weight:	6.3 kg (13.9 lbs)
Operating temperature:	5°C to 35°C (41°F to 95°F)
Supplied accessories:	RC-RW700 remote control unit 2 x type 3 (AA) batteries

記録ディスク：	CD-R, CD-R-DA CD-RW, CD-RW-DA
量子化ビット数：	16 bit リニア
サンプリング周波数：	44.1 kHz
再生周波数特性：	20 Hz ～20 kHz ±0.5 dB（再生時）、±1.0 dB（記録時）
S/N 比：	98 dB（再生時）、92 dB（記録時）
ダイナミックレンジ：	94 dB（再生時）、92 dB（記録時）
歪率：	0.004 %（再生時）、0.005 %（記録時）
チャンネルセパレーション：	90 dB（再生時、1 kHz） 80 dB（記録時、1 kHz）
ワウフラッター：	測定限界以下（0.001% 以下）
アナログ入出力	
アンバランス入力：	RCA ピン
基準入力レベル：	−10 dBV（FS − 16 dB）
最大入力レベル：	+6 dBV
入力インピーダンス：	33 kΩ（不平衡）
アンバランス出力：	RCA ピン
基準出力レベル：	−10 dBV（FS − 16 dB）
最大出力レベル：	+6 dBV
出力インピーダンス：	800 Ω（不平衡）
ヘッドホン出力：	6 φ ステレオ 35 mW+35 mW（32 Ω 負荷）
デジタル入出力	
入力	
COAXIAL：	RCA ピン、IEC60958 TYPE II
OPTICAL：	TOSLINK 、IEC60958 TYPE II
出力	
COAXIAL：	RCA ピン、IEC60958 TYPE II
OPTICAL：	TOSLINK、IEC60958 TYPE II
電源：	100 VAC 50-60 Hz
消費電力：	27 W
重量：	6.3 kg
外形寸法（W ×H ×D）：	483 ×98 ×312 mm



3. TEST MODE
テストモード

3-1. How to enter test mode

1. In Standby mode, press and hold the STOP + PLAY + PAUSE keys simultaneously for 5 seconds. The display will show the model name and the system controller's version number, and the test mode is initiated.
2. Press the STOP key to exit from the test mode and return to the standby mode.

3-2. Operations in test mode

3-2-1. Front key check

1. Press the PLAY key to enter the front key check mode.
2. The display shows the name of each key to be checked; press the corresponding key.
   When the check result of the key is OK, the display shows another key name. When the result is No Good, the display continues to show the same key name.
3. When all of the keys have been checked, the display shows "Timer". Follow this instruction by checking the TIMER slide switch operation.
4. The display finally shows "Dial". Check the MULTI JOG dial so that the displayed figure increases when the dial is rotated clockwise and decreases when it is rotated counterclockwise.
5. Press the PLAY key to exit from the front key check mode and return to the Version number display mode.

3-2-2. Display check

1. Press the DISPLAY key to enter the display check mode.
2. Press DISPLAY key a few times and ensure that each press lights the display blocks one after another.
3. When all the indicators are lit, press the DISPLAY key to exit from the display check mode and return to the Version number display mode.

3-2-3. EEPROM default setting

The following operation writes the default values in the EEPROM and checks the write data automatically.

1. Press the ERASE key.
   When the default data is written correctly, the display shows "EEPROM OK !!". If not, it shows "EEPROM NG!!".
2. Press the ERASE key again to return to the Version number display mode.

3-2-4. Total recording time display

1. When the REC key is pressed, the display shows the time in which the pickup outputs the recording power (in the unit of hour).
2. Press the REC key again to return to the Version number display mode.

3-1. テストモードに入る方法

1. スタンバイモードの状態で、STOPキー＋PLAYキー＋PAUSEキーを5秒間押し続けると、表示部に 機種名とシスコンのVersion No. が表示されテストモードに入る。
2. STOPキーを押すと、テストモードは終了しスタンバイモードに戻る。

3-2. テストモードにおける動作

3-2-1. フロントキーチェック

1. PLAYキーを押し、フロントキーチェックモードに入る。
2. 表示部にチェックするキーの名称が表示されるので、そのキーを押す。
   チェックOKなら次のキーの名称が表示され、NGなら表示は変化しない。
3. 一通りキーの確認が終了すると、"Timer" の表示が出るので、指示通りTIMERスライドスイッチを動かして確認する。
4. 最後に、"Dial" の表示が出るので、MULTI JOGダイアルを回して確認する。表示の数字が、右回しで増加、左回しで減少すること。
5. PLAYキーを押すと、フロントキーチェックモードを終了しVersion No. 表示に戻る。

3-2-2. ディスプレイチェック

1. DISPLAYキーを押し、ディスプレイチェックモードに入る。
2. DISPLAYキーを押すたびに、表示部がブロックごとに点灯して行くことを確認する。
3. 表示部が全点灯した状態からDISPLAYキーを押すと、ディスプレイチェックモードを終了しVersion No. 表示に戻る。

3-2-3. EEPROM デフォルト設定

EEPROMにデフォルト値を書き込み、自動的に書き込みチェックを行う。

1. ERASEキーを押す。
   このとき、正しく書き込めていれば、表示部に"EEPROM OK !!"と表示され、不良の場合は"EEPROM NG !!"と表示される。
2. 再度 ERASEキーを押すと、Version No. 表示に戻る。

3-2-4. 記録積算時間表示

1. RECキーを押すと、ピックアップが記録パワーを出力した時間を表示する。(単位：hour)
2. 再度 RECキーを押すと、Version No. 表示に戻る。

4. AUDIO CHECKS
オーディオ確認

4-1. Playback performance　再生系

Mode: Play
Measurement point: ANALOG OUT (L,R)

ITEM 項　目	TEST DISC/ TRACK No.	PLAYBACK SIGNAL	SPECIFICATIONS 規　格	REMARKS 備　考
1. **Playback level** 再生レベル	MCD-111 : Tr. No. 2	1 kHz, 0 dB	2.0 ± 0.5 Vrms	
2. **Playback distortion** 再生歪率	MCD-111 :Tr. No. 2	1 kHz, 0 dB	0.005 % or less	400 Hz HPF in 22 kHz LPF in
3. **Playback frequency responce** 再生周波数特性	MCD-111 : Tr. No. 3～6	20 Hz～20 kHz, 0 dB	0 ± 1 dB	Reference level: 1 kHz
4. **SN ratio** SN比	MCD-111 : Tr. No. 7		94 dB or better	22 kHz LPF in IEC-A
5. **Playback channel separation** 再生チャンネル セパレーション	MCD-111 : Tr. No. 8（L→R）, Tr. No. 10（R→L）	1 kHz, 0 dB	80 dB or better	22 kHz LPF in IEC-A
6. **Emphasis effect** エンファシス効果	MCD-111 : Tr. No. 13	16 kHz, −20 dB	−20 dB ± 1 dB	
7. **Interruption** インタラプション	MCD-131 : Tr. No. 3		No sound skipping. 音飛びが無いこと。	Interruption 700 μm
8. **Brack band** ブラックバンド	MCD-131 : Tr. No. 10		No sound skipping. 音飛びが無いこと。	Black band 600 μm
9. **Finger print** フィンガー プリント	MCD-131 : Tr. No. 13		No sound skipping. 音飛びが無いこと。	

4-2. Recording performance　録音系

INPUT SELECT: Analog
Mode: REC Monitor
Input terminal: ANALOG IN (L, R)
Measurement point: ANALOG OUT (L,R)

ITEM 項　目	**INPUT SIGNAL** 入力信号	**SPECIFICATIONS** 規　格	**REMARKS** 備　考
1. **Record level** 録音レベル	1 kHz, +6 dBV	Rotate the INPUT (L, R) controls to positions at which the "OVER" segments of the level meter is just about to light. AT this tine, the output level should be +6 ±2 dBV. INPUT (L,R)つまみを回して、レベルメータの“OVER”が点灯する直前になるようにセットする。 このとき、出力は 十6 土 2 dBVであること。	Do not vary the INPUT control positions after the adjustment. (These are their specified positions.) 調整後、INPUTつまみは動かさないこと。(規定位置)
2. **Total harmonic distortion** 総合歪率	1 kHz, +6 dBV	0.01 % or less	22 kHz LPF in 400 Hz HPF in
3. **Overall frequency responce** 録再周波数特性	20 Hz-20 kHz, +6 dBV	0 ± 1 dB	Reference level: 1 kHz
4. **Overall SN ratio** 録再SN比		88 dB min.	22 kHz LPF in IEC-A
5. **Channel separation** チャンネル セパレーション	Lch: 1 kHz, +6 dBV Rch: No signal	Ratio between the L CH and R CH outputs: 75 dB min. Also check the channel separation of L CH from R CH. Lchの出力とRchの出力の比： 75 dB min. Rch→Lchも同様に確認すること。	22 kHz LPF in IEC-A
6. **PHONES output level** PHONES出力 レベル	1 kHz, +6 dBV	Phones output level when the PHONE level control is set to the maximum position: 1 V or more. PHONESレベルつまみを最大にしたときのPHONES出力： 1 V 以上	32Ω load

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 the 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 [K]: KOREA [E]: EUROPE
  [A]: AUSTRALIA [GE]: GENERAL EXPORT

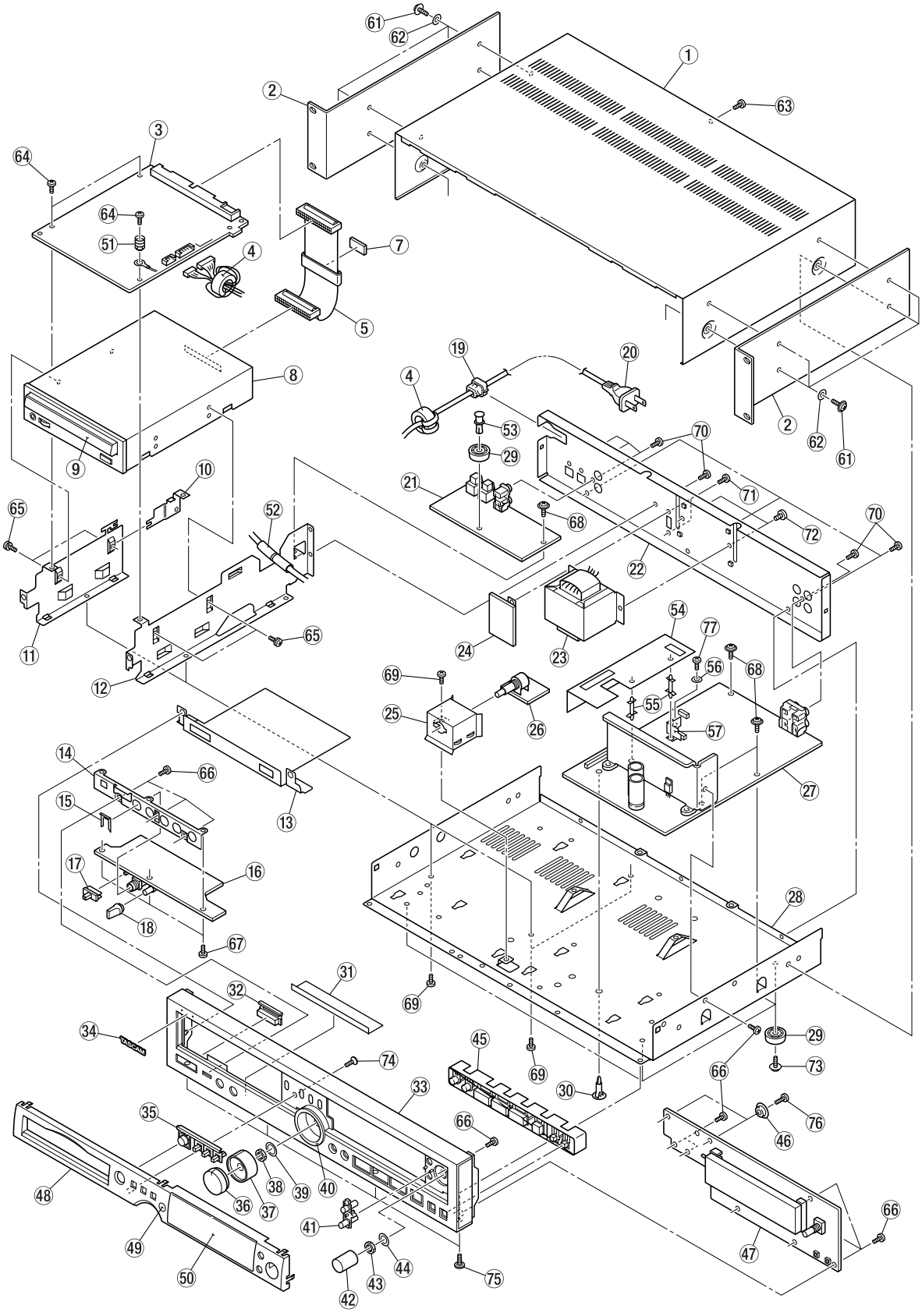
注 意

- プリント基板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。
- ⚠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 [K]: KOREA [E]: EUROPE
  [A]: AUSTRALIA [GE]: GENERAL EXPORT

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	*3M0058120A	BONNET	
1- 2	3M0073200B	RACK MOUNT ANGLE,RM-5	
1- 3	*3E9524710C	PCB ASSY,CONVERTER	
1- 4	*3E010000	FERRITE CORE,B18T 25X12X15	
1- 5	*3E0117100A	WIREA,DRIVE-CONVERT 40P	
1- 6	Vacant		
1- 7	3M0101100A	FOOT,2T	
1- 8	V00089400A	CD-W54E-A90	
1- 9	3M0089930B	PANEL,TRAY	
1-10	*3M0101300A	BRACKET,EARTH CVT PCB	
1-11	*3M0088400A	BRACKET,MECHA SIDE(L)	
1-12	*3M0088500B	BRACKET,MECHA SIDE(R)	
1-13	*3M0100400A	SHEET,SHIELD PH PCB	
1-14	*3M0088600B	BRACKET,JACK	
1-15	*3E011630	MOUNT PLATE,JACK	
1-16		PCB ASSY,MIC/HP ·····	GATHER (A) PCB ASSY
1-17	3M0057400A	KNOB,SLIDE(B)	
1-18	3M0024800A	KNOB,PHONE VOLUME	
1-19	⚠ *3M000880	BUSHING,#2271	
1-20	⚠ *3E009000	POWER CORD [J]	
	⚠ *3E009230	POWER CORD [US,C,GE]	
	⚠ *3E000340	POWER CORD [E]	
	⚠ *3E006330	POWER CORD [K]	
	⚠ *3E000360	POWER CORD [A]	
1-21		PCB ASSY,DIGI I/O ·····	GATHER (A) PCB ASSY
1-22	*3M0058050C	PANEL,REAR [J,K,E,A]	
	*3M0058060C	PANEL,REAR [US,C,GE]	
1-23	⚠ *3E0117700A	TRANS,CDRW	
1-24	*3E9522100A	PCB ASSY,V SELECTOR [US,C,GE] ·····	GATHER (A) PCB ASSY
1-25	*3M0096600A	SHIELD CASE,VR	
1-26		PCB ASSY,VR ·····	GATHER (B) PCB ASSY
1-27		PCB ASSY,AUDIO/POWER ·····	GATHER (A) PCB ASSY
1-28	*3M0057910B	CHASSIS,MAIN	
1-29	*3M001950	FOOT,21MM	
1-30	*3M0062600A	SUPPORT,PCB SCD-12	
1-31	*3M0100500B	SHEET,EARTH	
1-32	3M0089500B	BUTTON,POWER	
1-33	3M0088700C	PANEL,FRONT	
1-34	5720254101	NAME PLATE,TASCAM(S)	
1-35	3M0089320A	BUTTON,NUT O/C	
1-36	3M0090120A	KNOB,REC(R)	
1-37	3M0089720B	KNOB,REC(L)	
1-38	*3M001340	NUT,VR M9	
1-39	*3M001350	PLAIN WSHR,VR M9.1	
1-40	3M0089120A	RING,REC KNOB	
1-41	3M0089200A	BUTTON,MENU	
1-42	3M0089800A	KNOB,D15 JOG	
1-43	*3M0096900A	NUT,M7	
1-44	*3M0096800A	PLAIN WASHER M7	
1-45	3M0089420A	BUTTON,NUT OPE	

EXPLODED VIEW-1

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1-46	*3M0097400B	STOPPER,BONNET	
1-47		PCB ASSY,FRONT	GATHER (B) PCB ASSY
1-48	3M0088820C	ESCUTCHEON F	
1-49	*3M0089000A	COVER,SENSOR	
1-50	3M0088910A	WINDOW,FL	
1-51	*3M0101500A	SPRING,EARTH BONNET	
1-52	*3M0074000A	HEAT BARRIER [J,US,C,GE]	
1-53	*3M0112200A	SUPPORT,PCB RCA-6	
1-54	*3M0099200B	SHEET,BARRIER E.POWER [EXCEPT J]	
1-55	*3M0099100A	SUPPORT,PCB CBS-15 [EXCEPT J]	
1-56	*3M0102400A	WASHER,PLAIN 3.5X10X1 [EXCEPT J]	
1-57	*3M0101600B	SHEET,BARRIER CONNECT [EXCEPT J]	
1-61	*3B0001812A	SCREW,J,S M3X12 (BLK)	
1-62	*3M002020	FIBER WSHR,3X8X0.3T BLK	
1-63	*3B0003808A	SCREW,VPC M3X8 (BLK)	
1-64	*3B0005305A	SCREW,BPB M3X5	
1-65	*3B0007400A	SCREW,BPAA M3X6	
1-66	*3B0000808A	SCREW,BPP M3X8	
1-67	*3B0005305A	SCREW,BPB M3X5	
1-68	*3B0001306A	SCREW,J,S M3X6	
1-69	*3B0005308A	SCREW,BPB M3X8	
1-70	*3B0005708A	SCREW,BPB M3X8 (BLK)	
1-71	*3B0004408A	SCREW,BPS M3X8 (BLK) [US,C,GE]	
1-72	*3B0001905A	SCREW,J,S M4X5 (BLK)	
1-73	*3B0001308A	SCREW,J,S M3X8	
1-74	*3B0007008A	SCREW,FPP M3X8	
1-75	*3B0007300A	SCREW,FPS TITE M3X6	
1-76	*3B0000810A	SCREW,BPP M3X10	
1-77	*3B0000106A	SCREW,BPS M3X6 [EXCEPT J]	

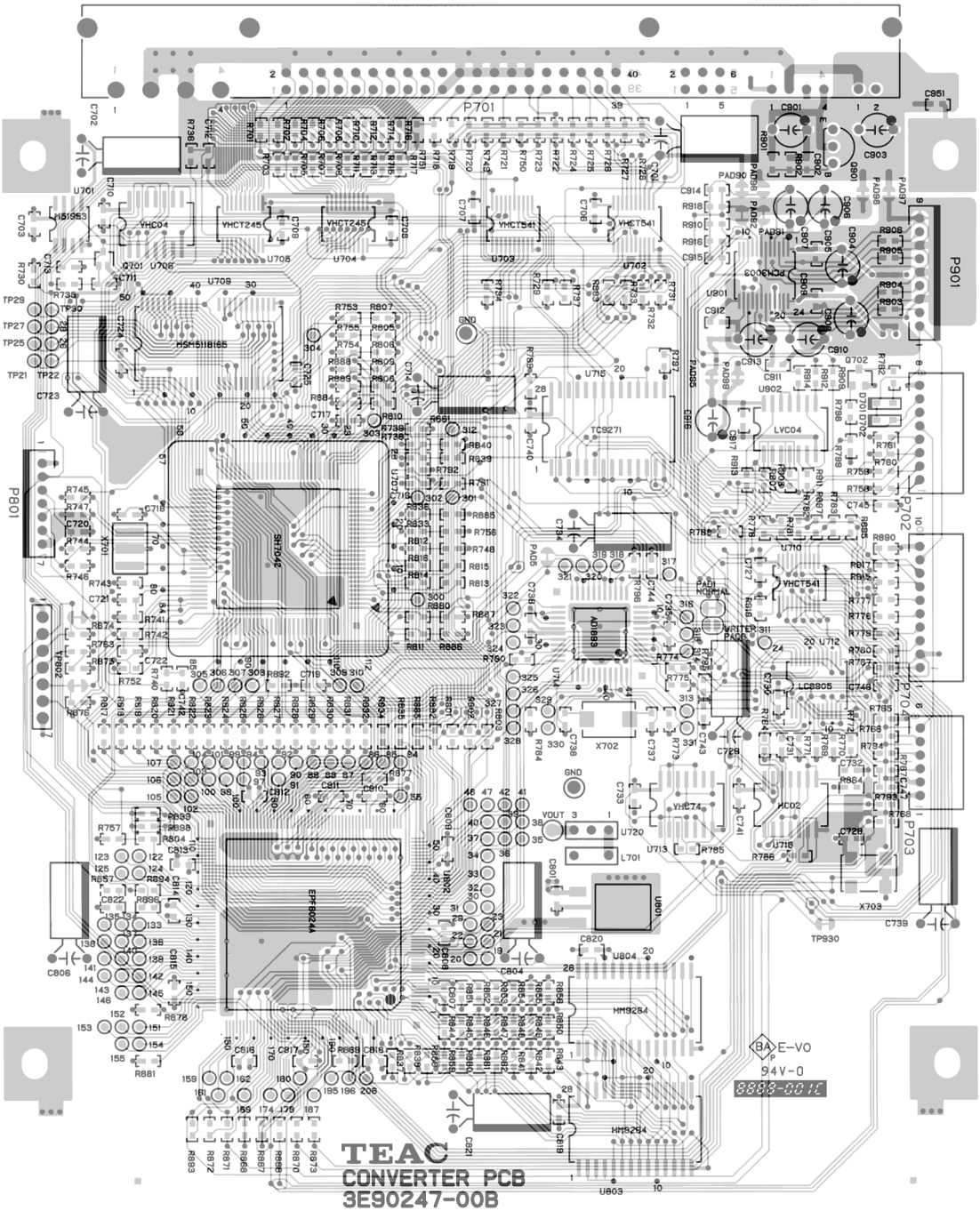
INCLUDED ACCESSORIES

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*3D0032000B	OWNER'S MANUAL,JAPANESE [J]	
	*3D0031900A	OWNER'S MANUAL,ENGLISH [EXCEPT J]	
	*3E0123700A	REMOTE CONT,UNIT RC-RW700	
	*3E003660	BATTERY,UM-3(2P X ED)	
	*3M0028300A	RACK MOUNT SCREW KIT	

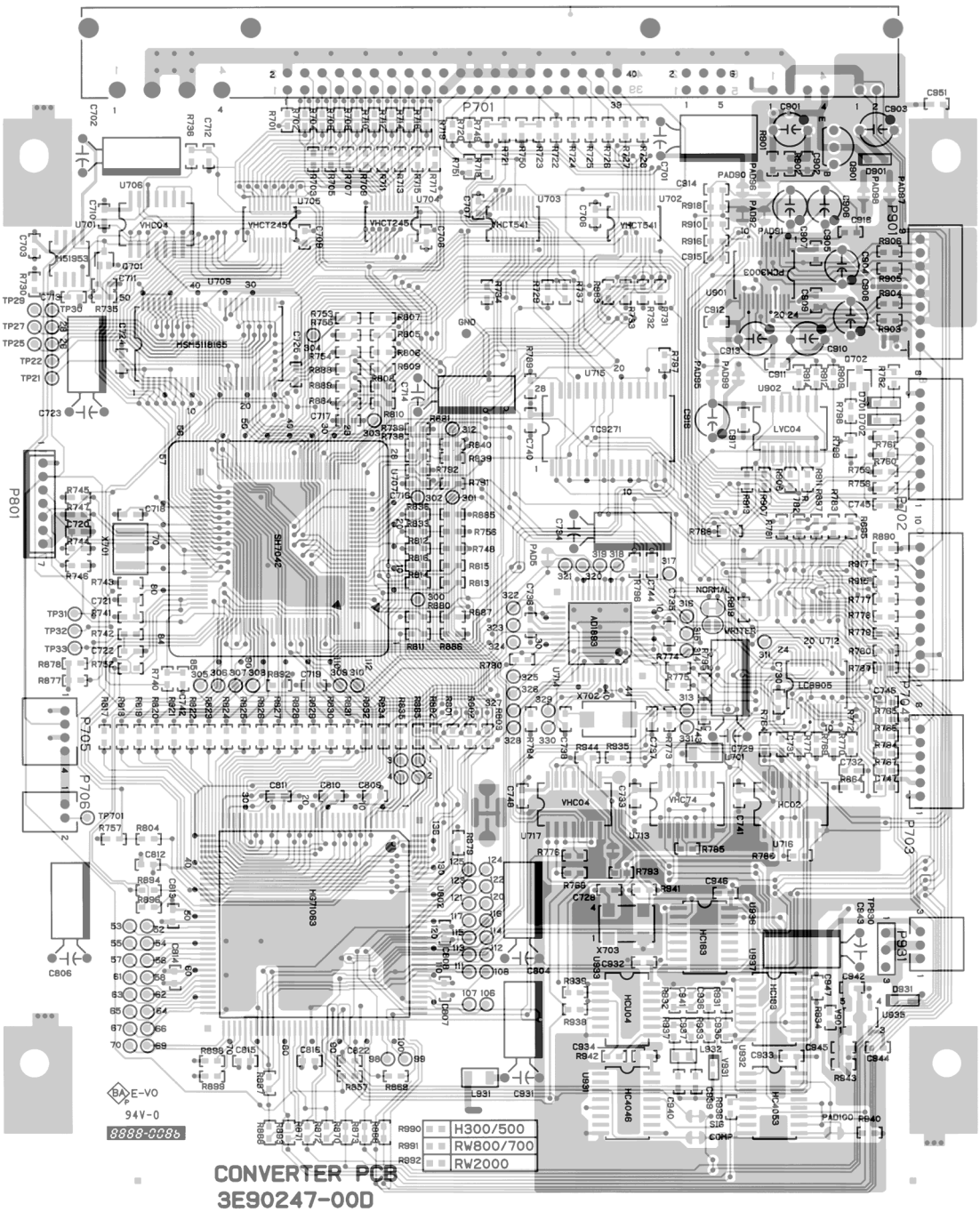
6. PC BOARDS AND PARTS LIST

基板図とパーツリスト

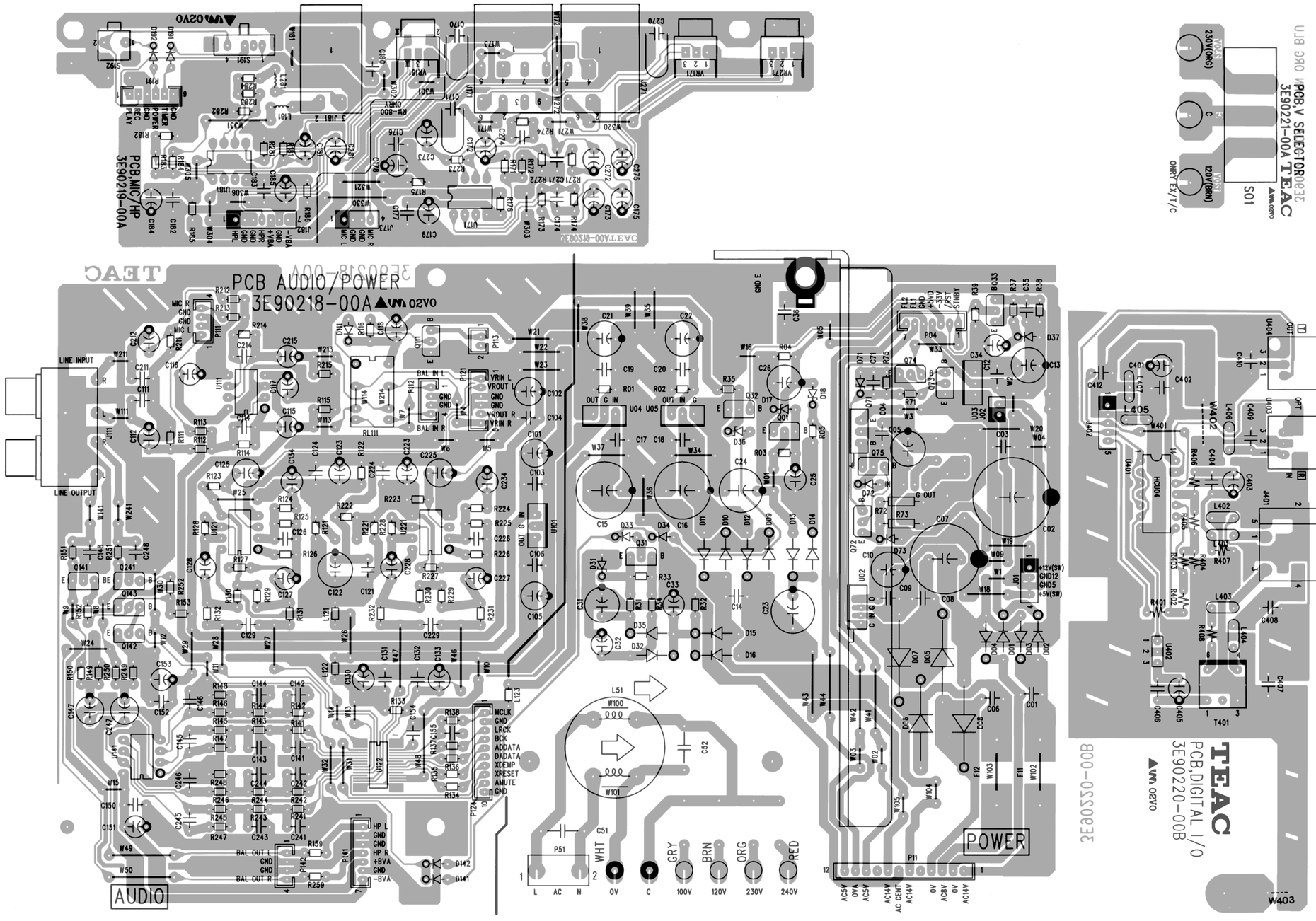
CONVERTER PCB (3E9024700B)



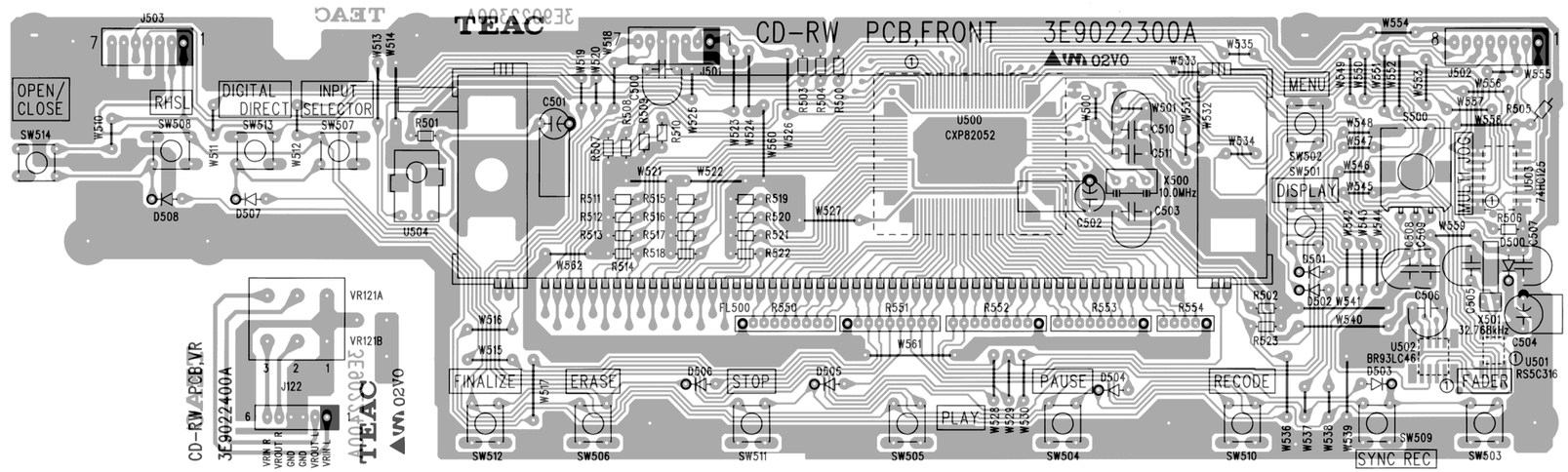
CONVERTER PCB (3E9024700D)



GATHER (A) PCB (AUDIO/POWER PCB, MIC/HP PCB, DIGI I/O PCB, V SELECTOR PCB)



GATHER (B) PCB (FRONT PCB, VR PCB)



GATHER (A) PCB ASSY

REF.NO.		PARTS NO.	DESCRIPTION
		*3E9521700B	PCB ASSY,GATHER(A) [J]
		*3E9521710B	PCB ASSY,GATHER(A) [US,C,GE]
		*3E9521740B	PCB ASSY,GATHER(A) [K,E,A]
			PCB ASSY,AUDIO/POWER
			[J,US,C,GE]
			PCB ASSY,AUDIO/POWER
			[K,E,A]
		*3M0097300A	HEAT SINK
		*3B0000808A	SCREW,BPP M3X8
		*3E0043200A	TERMINAL,EARTH PLATE B
C01	⚠	3C011640	CC,YF 50V 0.1UF Z
C02	⚠	3C012790	CE,35V 4700UF GS
C04	⚠	3C011640	CC,YF 50V 0.1UF Z
C06	⚠	3C011640	CC,YF 50V 0.1UF Z
C07	⚠	3C001350	CE,16V 10000UF M
C09	⚠	3C011640	CC,YF 50V 0.1UF Z
C12	⚠	3C011640	CC,YF 50V 0.1UF Z
C14	⚠	3C011640	CC,YF 50V 0.1UF Z
C15,16	⚠	3C009820	CE,25V 470PF GS
C24	⚠	3C000790	CE,50V 220UF M
C31	⚠	3C009730	CE,25V 220UF GS
C32	⚠	3C000270	CE,50V 4.7UF M
C33	⚠	3C009640	CE,50V 22UF GS
D01-04	⚠	3S000031	DIODE,1N4003-TR
D05-08	⚠	3S001130	DIODE,1N5404
D09-16	⚠	3S000031	DIODE,1N4003-TR
D17		3S001750	ZDI,MTZJ33B T-77
D18,31		3S000681	ZDI,MTZJ5.1B T-77
D32	⚠	3S000031	DIODE,1N4003-TR
D33,34		3S000241	DIODE,1SS133 T-77
D35	⚠	3S000031	DIODE,1N4003-TR
D36		3S000681	ZDI,MTZJ5.1B T-77
D37		3S000241	DIODE,1SS133 T-77
D71		3S003201	ZDI,MTZJ12B T-77
D72,73		3S000241	DIODE,1SS133 T-77
D141,142		3S000241	DIODE,1SS133 T-77
J01		3E0118600A	WIREA,POWER-DRIVE 4P
J02		3E0118700A	WIREA,POWER-CONVERT 4P
J111		3E009030	JACK,RJ-1073B-09-0520A
L121		3E011800	COIL,1.0 UH K
L122		3E011810	COIL,47UH K
L123		3E011820	FB,FBR07HA850SB-00
L51		3E004290	COIL,1MH/1.5A FK0B160MH16
P04		3E000710	PLUG,CONN. 7P B7B-PH-K
P11		3E001240	PLUG,CONN. 12P B12B-EH-A
P51		3E002170	PIN,TERMINAL LAPPING 2P
			[K,E,A]
P111		3E000680	PLUG,CONN. 4P B4B-PH-K
P121		3E000700	PLUG,CONN. 6P B6B-PH-K
P124		3E000740	PLUG,CONN. 10P B10B-PH-K
P141		3E000710	PLUG,CONN. 7P B7B-PH-K

REF.NO.		PARTS NO.	DESCRIPTION
Q01	⚠	3S002300	TR,KSA733C-GTA
Q31	⚠	3S002300	TR,KSA733C-GTA
Q32		3S002450	TR,DTC114ESTP
Q33		3S002310	TR,KSC945C-GTA
Q71	⚠	3S000400	TR,2SB1015Y
Q72		3S002310	TR,KSC945C-GTA
Q73		3S000301	TR,DTA124ES TP
Q74		3S000291	TR,DTC124ES TP
Q75		3S002300	TR,KSA733C-GTA
Q141,241		3S000731	TR,2SD2144S TP
Q142		3S000291	TR,DTC124ES TP
Q143		3S000301	TR,DTA124ES TP
R72,73	⚠	3R007100	RD,1/2W 470 OHM J
U02	⚠	3S003040	IC,BA05ST
U03	⚠	3S000650	IC,NJM7805FA
U04	⚠	3S002170	IC,NJM7812FA
U05	⚠	3S003030	IC,NJM7912FA
U101		3S000650	IC,NJM7805FA
U111		3S001700	IC,NJM4580D
U121,221		3S003010	IC,NJM2100D
U122		S0035883	IC,CS4223-KS
U141		3S001700	IC,NJM4580D
			PCB ASSY,MIC/HP
D191,192		3S000241	DIODE,1SS133 T-77
J181		3E002140	JACK,JY-6313-01-030GD
J182		3E0116900A	WIREA,AUDIO HP 7P
L181,281		3E011800	COIL,1.0 UH K
P191		3E000700	PLUG,CONN. 6P B6B-PH-K
S191		3E011780	SW,SLIDE SSSS91A600
S192		3E011790	SW,TACT SKHVLH 0.98N
U181		3S000850	IC,NJM4560D
VR181		3R005560	VAR RES,RK09K12A-20KA
			PCB ASSY,DIGI I/O
J401		3E011850	JACK,RJ-1060A-31-0541A
J402		3E0119100B	WIREA,DIGI I/O 6P
L401-404		3E011820	FB,FBR07HA850SB-00
L405		3E011820	FB,FBR07HA850SB-00
L406		3E011810	COIL,47UH K
L407		3E013130	FILTER,EMT103BT
T401		3E0132300A	PULS TRANS,S-701-001
U401		3S001660	IC,TC74HCU04AP (DIP)
U402		3E011830	FILTER,EMT 47BT
U403		3S001680	IC,GP1F32R
U404		3S002290	IC,GP1F32T
			PCB ASSY,V SELECTOR [US,C,GE]
		3E0117200A	WIRE,V SELECTOR
S01		3E002110	SW,SLIDE SL13B-022

GATHER (B) PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*3E9522200A	PCB ASSY,GATHER(B)
		PCB ASSY,FRONT
	*3M0090000B	HOLDER,FL
D500-508	3S000241	DIODE,1SS133 T-77
FL500	3E0117500A	DISPLAY,HNA-16MM23 RW(L)
J501	3E0118800A	WIREA,POWER-FRONT 7P
J502	3E0119000B	WIREA,FRONT-CONVERT 8P
J503	3E0117000A	WIREA,PSW/TIMER 6P
SW501-514	3E002070	SW,TACT SKQSAB HMR-187
S500	3E007320	SW,ENCODER EC11B15244
U500	3S0030600A	IC,CXP82040-112Q
U501	3S002844	IC,RS5C316A-E2 SMT,TAPING
U502	3S003254	IC,BR93LC46RF-WE2 SMT TAP
U503	3S003074	IC,TC74HC125AF(EL)SMT.TA
U504	3S002200	REMOCON.SENSER,TSOP1838RF
X500	3E011740	RESONATOR,CST 10.00MTW
X501	3E012050	X'TAL,32.768KHZ
		PCB ASSY,VR
J122	3E0119200A	WIREA,AUDIO VR 6P
VR121	3R005550	VAR RES,RK1612220-20KA

CONVERTER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*3E9524710C	PCB ASSY,CONVERTER
D701,702	3S002984	DIODE,1SS355
L701	E0013294	COIL,LQH3N 4.7UH
P701	3E011730	CONNECTOR,NS-TECH CD-51 CDRW
P702	3E001340	CONNECT PLUG,8P S8B-PH-K
P703	3E009790	CONNECT PLUG,6P 89401-0610
P704	3E001360	CONNECT PLUG,10P S10B-PH-K
P801	3E000710	CONNECT PLUG,7P B7B-PH-K
Q701	3S002994	TR,DTC124EUA
Q702	3S003004	TR,2SA1037AK
U702,703	S0037164	IC,TC74VHCT541AFT(EL)
U704,705	S0037174	IC,TC74VHCT245AFT(EL)
U706	3S002924	IC,TC74VHC04F(EL)SMT.TA
U707	S00368800A	IC,HD6437042 CONVERT
U709	S0036813	IC,MSM5118165D
U712	3S002954	IC,LC8905V
U713	3S002914	IC,TC74VHC74F(EL)SMT.TA
U714	S0030993	IC,AD1893JST
U715	3S002944	IC,TC9271F(ELP)SMT.TA
U716	3S002934	IC,TC74HC02AF(EL)SMT.TA
U717	3S002924	IC,TC74VHC04F(EL)SMT.TA
U802	S00361900A	IC,AUDIO CONVERTER CDRW
X701	3E011994	RES,CSTCC 7.17MG0H6-TC
X702	3E011984	X'TAL,LIM55A 16MHZ
X703	3E011974	X'TAL,11.289MHZ