

TC-K420

SERVICE MANUAL

*AEP Model
UK Model
Australian Model*



SPECIFICATIONS

Recording system

4-track 2-channel stereo

Bias AC bias

Motors Capstan motor × 1 (DC servo motor)
Reel motor × 1 (DC motor)

Wow and flutter 0.07% WRMS (NAB)
±0.18% (DIN)

Fast winding time

Approx. 90 sec. (with C-60 cassette)

Frequency response (DOLBY NR OFF)

TYPE IV cassette (Sony METAL-ES)	30–18,000 Hz (±3 dB, DIN) 30–15,000 Hz (OVU recording, ±3 dB)
TYPE II cassette (Sony UX—S)	30–17,000 Hz (±3 dB, DIN)
TYPE I cassette (Sony HF-S)	30–15,000 Hz (±3 dB, DIN)

Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch Cassette	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METAL-ES)	59 dB	67 dB	74 dB
TYPE II (Sony UX-S)	58 dB	66 dB	73 dB
TYPE I (Sony HF-S)	56 dB	64 dB	71 dB

Total harmonic distortion

1.0% (with Sony METAL-ES cassettes)

Inputs

Line inputs (phono jacks)	Sensitivity	77.5 mV (–20 dB)
	Input impedance	50k ohms

Model Name Using Similar Mechanism	TC-K510
Tape Transport Mechanism Type	TCM-CMAY B-28

Outputs

Line outputs (phono jacks)	Rated output level	0.44 V (–5 dB) at a load impedance of 47k ohms
	Load impedance	Over 10k ohms
Headphones (stereo phone jack)	Output level	0.3 mW at a load impedance of 32 ohms

General

Power requirements

220V AC (or 240V AC), 50/60 Hz

Power consumption

16W

Dimensions

Approx. 430 × 123 × 285mm (w/h/d)
(17 × 4 7/8 × 11 1/4 inches)

including projecting parts and controls

Weight

Approx. 4.1 kg (9 lbs 1 oz)

Supplied accessory

Audio connecting cord (2)

Design and specifications subject to change without notice.

Optional accessory

Wireless remote control unit RM-900W.
Wireless remote control unit RM-J701.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

STEREO CASSETTE DECK
SONY®



• FEATURES

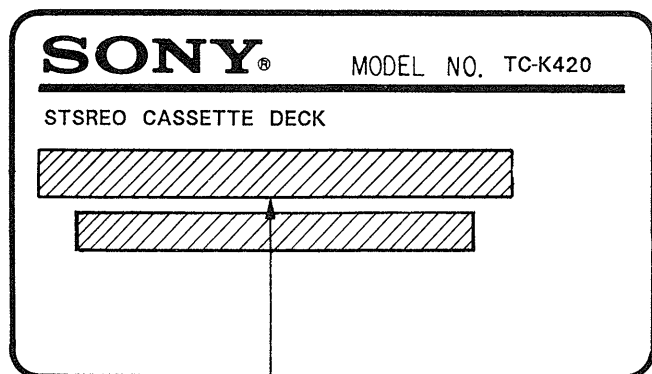
- **A bias control** for adjusting the bias current for optimum recording on every tape.
- **The Dolby HX PRO* system** to improve the linearity of the tape's high-range response during recording.
- **The AMS** to provide easy access to a desired selection.
- **An optional remote control unit** to allow various operations to be remotely controlled.

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

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

MODEL IDENTIFICATION

—Specification Label Printed on Back Panel—



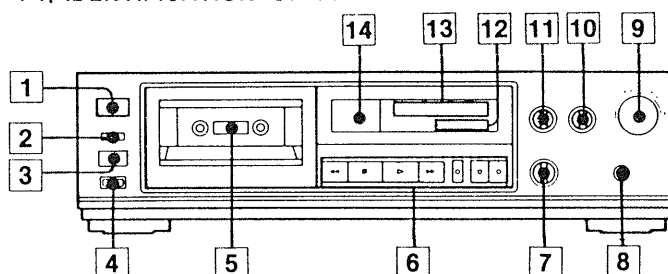
AEP model : AC 220V~50/60Hz

UK/Austrarian model : AC 240V~50/60Hz

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SECTION 1 GENERAL

1-1. IDENTIFICATION OF FRONT PANEL PARTS



1 POWER switch

2 TIMER switch

3 Remote control sensor

You can control this unit remotely with:

— A remote commander that came with a Sony amplifier or receiver if it has the  mark and cassette deck control capability.

— Any optional Sony remote commander with the  mark.

4  (eject) button

5 Cassette holder

6 Tape operation buttons and indicators

 (rewind) button

 (stop) button

 (play) button and indicator

 (fast forward) button

 REC (record) button and indicator

 PAUSE button and indicator

 REC MUTE (record muting) button

7 BIAS (bias adjust) control

8 HEADPHONES (headphones) jack (stereo phone jack)

9 REC LEVEL (recording level) control

10 MPX FILTER switch

11 DOLBY NR switch

12 TAPE TYPE indicators

13 PEAK LEVEL METER

14 TAPE COUNTER and RESET button

SECTION 2 MECHANICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belts
capstan	idler
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	30 to 70g · cm (0.42 to 0.97 oz · inch)
FWD Back tension	CQ-102C	2 to 6g · cm (0.028 to 0.083 oz · inch)
FF, REW	CQ-201B	90 to 180g · cm (1.25 to 2.49 oz · inch)

SECTION 3 ELECTRICAL ADJUSTMENTS

Note : The adjustment should be performed in the order given in the service manual. As a rule, adjustment about playback should be performed before adjustment about recording.

The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch : OFF

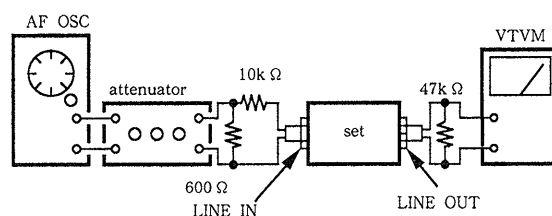
TIMER switch : OFF

MPX FILTER switch : OFF

- Standard Record :

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

—Record Mode—



Standard Input Level

input terminal	LINE IN
source impedance	10k Ω
input level	0.25V (−10dB)

Standard Output Level

output terminal	LINE OUT
load impedance	47k Ω
output level	0.44V (−5dB)

Test tape

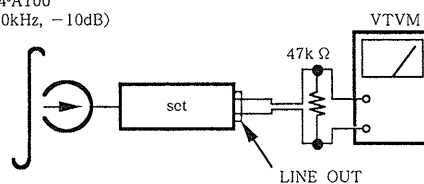
Type	Signal	Used for
P-4-A100	10kHz, −10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

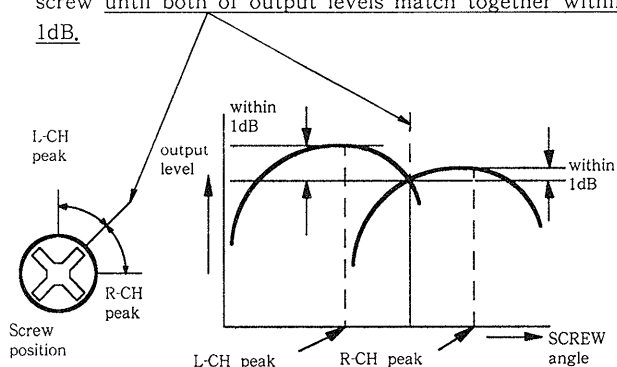
Procedure :

- Mode : playback

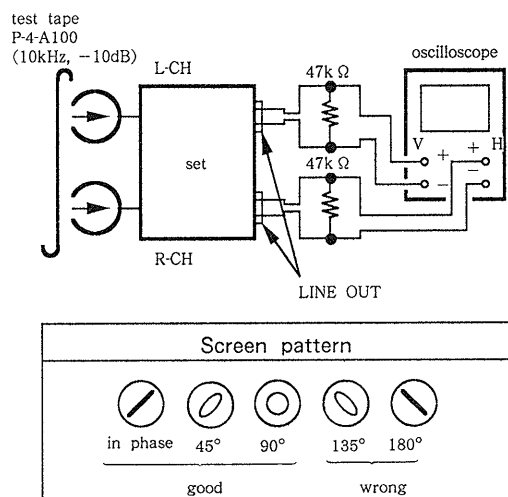
test tape
P-4-A100
(10kHz, −10dB)



- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

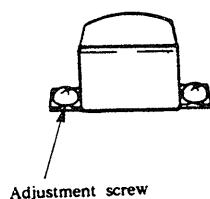


- Phase Check
Mode : playback



- After the adjustment, lock the screws with locking compound.

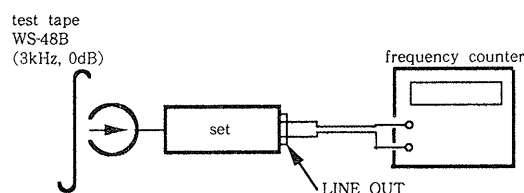
Adjustment Location : REC/PB Head



Tape Speed Adjustment

Procedure :

Mode : playback



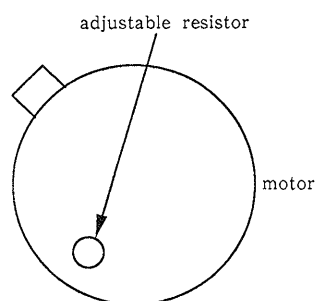
Adjustment Limits :

Speed checker	Frequency counter
$\pm 0.5\%$	2,985—3,015Hz

Frequency difference between the beginning and the end of the tape should be within 0.5% (15Hz).

Adjustment Location :

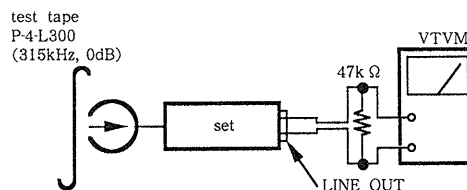
adjustment the adjustable resistor of built in motor (adjustment by the insert to driver Speed in fastest that turn the clockwise.)



Playback Level Adjustment

Procedure :

Mode : playback



Adjust RV101 (L-CH), RV201 (R-CH) so that the reading on VTVM meets the adjustment limits below.

Adjustment Limits :

LINE OUT level : $-5 \pm 0.5\text{dB}$ (0.42—0.46dB)

Level difference between channels : less than 0.5dB

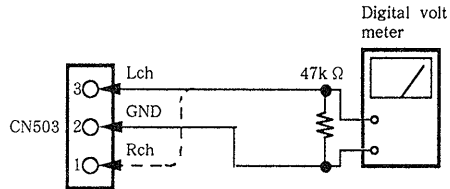
Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : main board (See page 6)

Bias Consumption Current Adjustment

Bias Consumption current adjustment should be performed before record bias adjustment.

1. Set the center to RV301 (L-CH), RV401 (R-CH) and REC /FWD for no-signal.
2. Connect CN503 with digital volt meter, adjust T301 (L-CH), T401 (R-CH) so that the minimum or digital volt meter.



Adjustment Location : main board (See page 6)

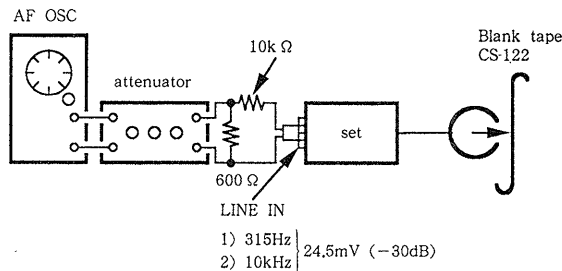
Record Bias Adjustment

Setting :

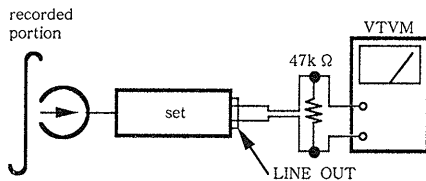
REC LEVEL control : Standard Record (See page 3.)

Procedure :

1. Mode : record



2. Mode : playback



Playback the signal recorded in step 1.
Confirm that the 10kHz playback output is $5 \pm 0.5\text{dB}$ relative to the 315Hz output. If necessary, adjust RV301 (L-CH), RV401 (R-CH) and repeat the steps given above.

Adjustment Location : main board (See page 6)

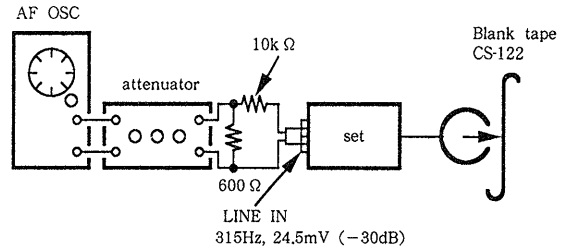
Record Level Adjustment

Setting :

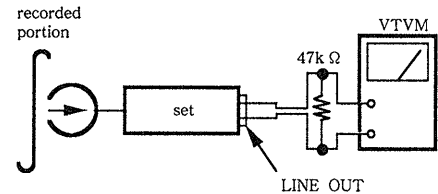
REC LEVEL control : Standard Record (See page 3.)

Procedure :

1. Mode : record



2. Mode : playback

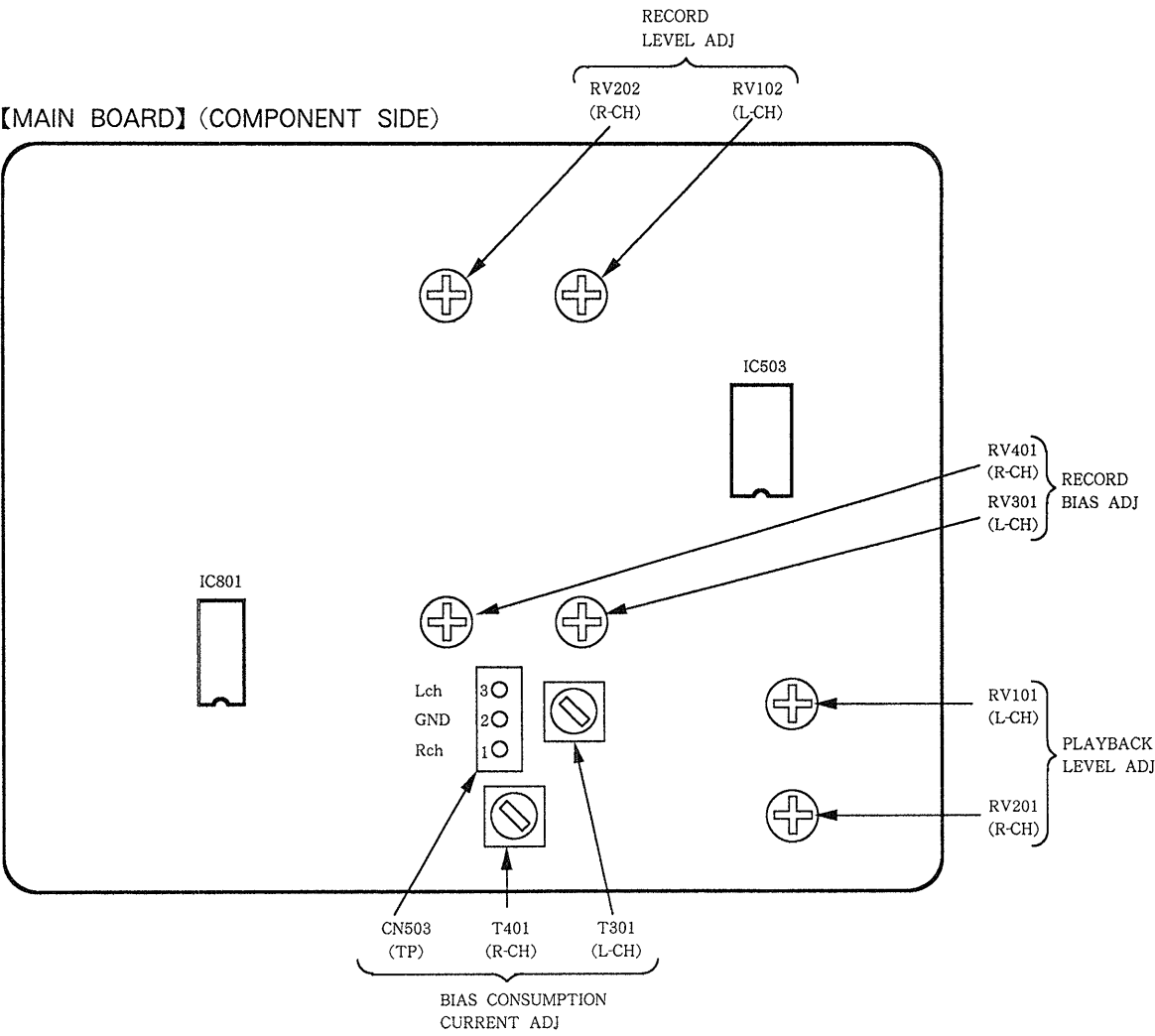


3. Playback the signal recorded in step 1.
Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV102 (L-CH), RV202 (R-CH) and repeat the step1-2.

Adjustment Limits : $-25\text{dB} \pm 0.5\text{dB}$ (42-46mV)

Adjustment Location : main board (See page 6)

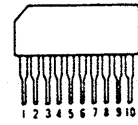
ADJUSTMENT LOCATION



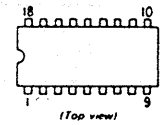
SECTION 4 DIAGRAMS

4.1. SEMICONDUCTOR LEAD LAYOUTS

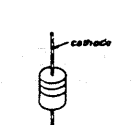
BA6209N



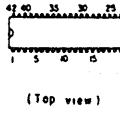
μPC1297CA



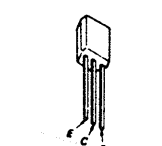
HZS6A1L
1SS202-1



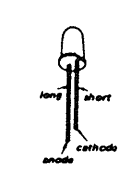
CX20187



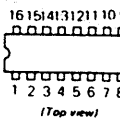
DTA114ES
DTC143TS
DTC144ES
2SA1145B
2SD1012



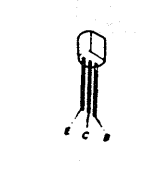
SEL1210S
SEL1410E



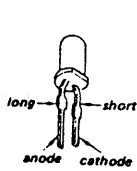
IR2E02



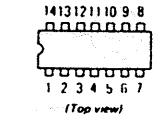
2SB1068-K
2SC945-P



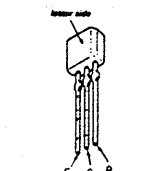
SEL2210S-C
SEL2410E-C



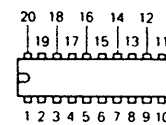
MC14011BCP



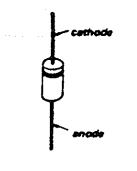
2SC2785HFE



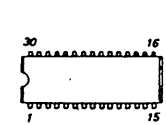
M50761-417P



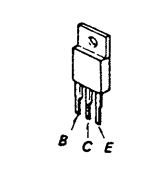
10E2N



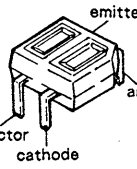
M50925-385SP



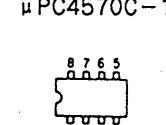
2SB1187-F
2SD1913SA



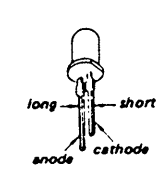
GP2S09



M5218
RC4558P
μPC4570C-1



GL-5HY41

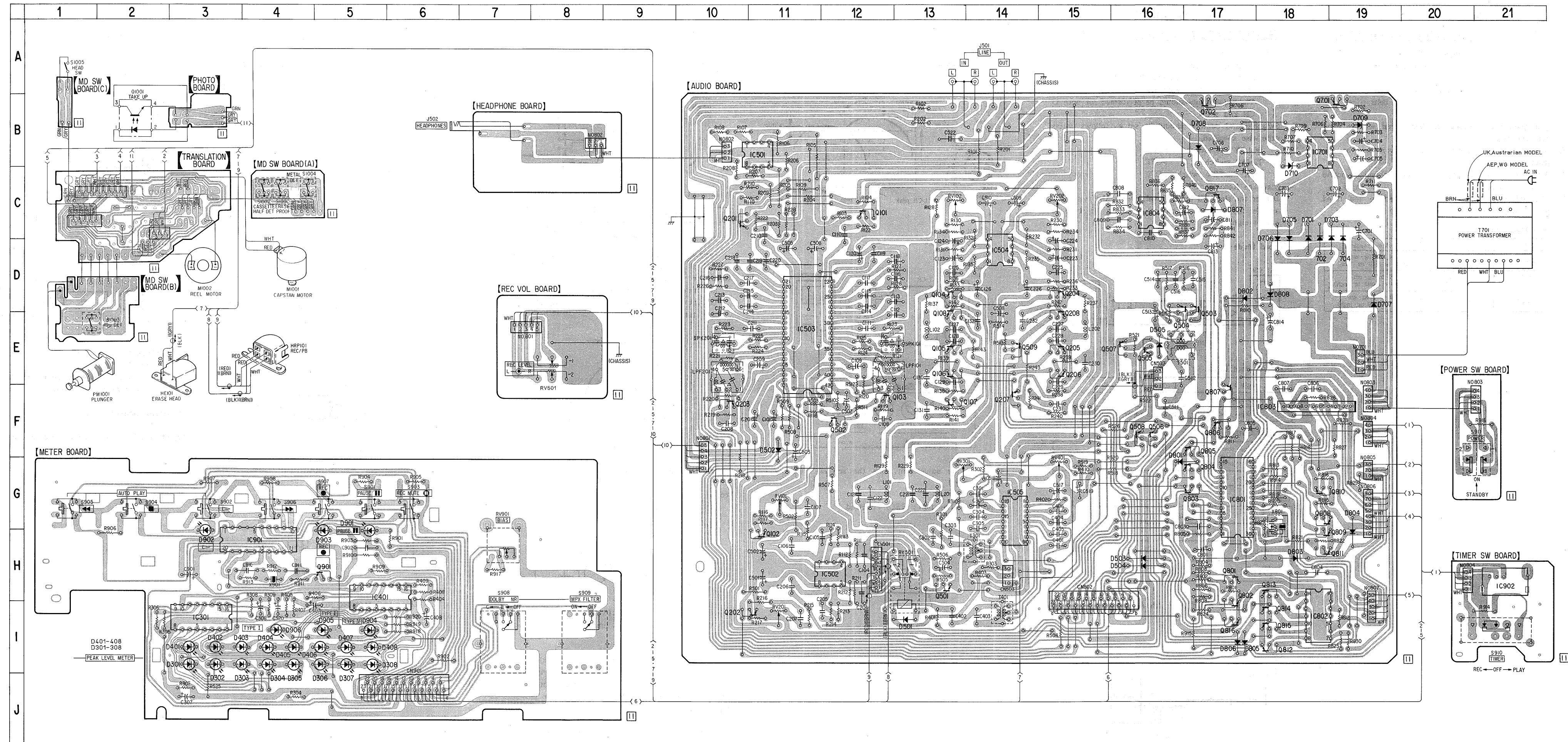


• Semiconductor Location

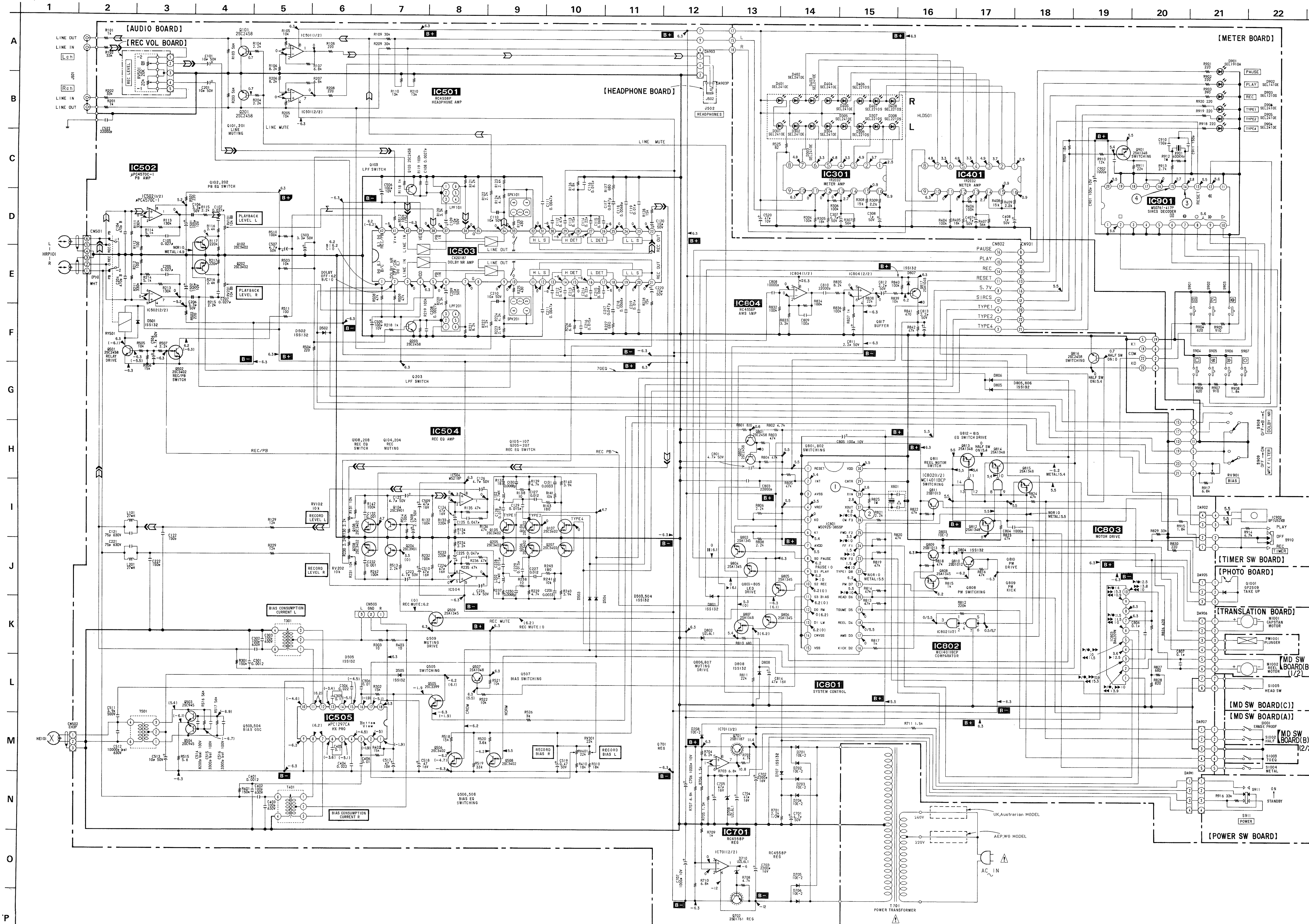
Ref. No.	Location	Ref. No.	Location
IC301	I-3	Q814	I-18
IC401	H-5	Q815	I-18
IC501	B-11	Q816	I-17
IC502	H-12	Q817	C-17
IC503	E-11	Q901	H-5
IC504	D-14	Q1001	B-2
IC505	G-14		
IC701	B-18	D301	I-3
IC801	G-17	D302	I-3
IC802	I-18	D303	I-3
IC803	F-18	D304	I-4
IC804	C-16	D305	I-4
IC901	H-4	D306	I-5
IC902	H-21	D307	I-5
		D308	I-5
Q101	C-12	D401	I-3
Q102	H-11	D402	I-3
Q103	F-12	D403	I-3
Q104	D-13	D404	I-4
Q105	E-13	D405	I-4
Q106	E-13	D406	I-5
Q107	F-13	D407	I-5
Q108	D-13	D408	I-5
Q201	C-10	D501	I-13
Q202	I-10	D502	F-11
Q203	F-10	D503	H-16
Q204	D-15	D504	H-16
Q205	E-15	D505	E-16
Q206	E-15	D701	C-18
Q207	F-14	D702	C-18
Q208	D-15	D703	C-19
Q501	H-13	D704	C-19
Q502	F-12	D705	C-18
Q503	E-17	D706	C-18
Q504	E-16	D707	D-19
Q505	E-16	D708	B-17
Q506	F-16	D709	B-19
Q507	E-16	D710	B-18
Q508	F-16	D801	G-16
Q509	E-14	D802	D-17
Q701	B-19	D803	H-18
Q702	B-17	D804	G-19
Q801	H-17	D805	I-17
Q802	H-17	D806	I-17
Q803	G-17	D807	C-17
Q804	G-17	D808	D-18
Q805	F-17	D901	G-5
Q806	F-17	D902	H-3
Q807	F-17	D903	H-5
Q808	G-18	D904	I-5
Q809	H-18	D905	I-5
Q810	G-18	D906	I-4
Q811	H-18		
Q812	I-18		
Q813	H-18		

Note:
 • ○ — : parts extracted from the component side.
 • ■ : Pattern on the side which is seen.

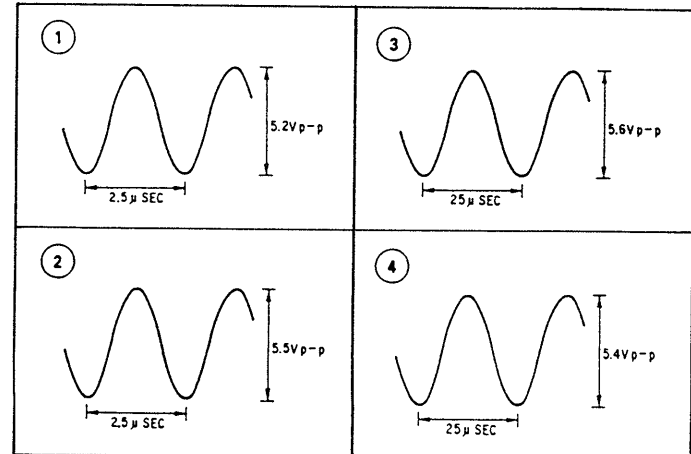
4.2. PRINTED WIRING BOARDS



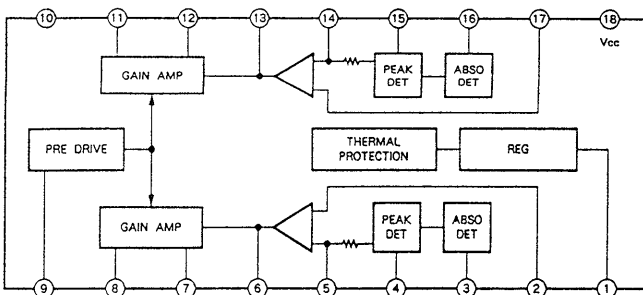
4.3. SCHEMATIC DIAGRAM



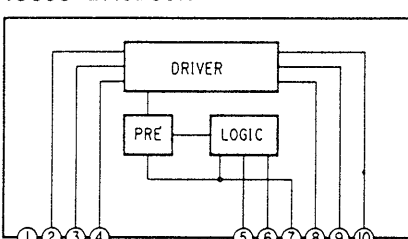
• SCHEMATIC OF WAVE FORMS



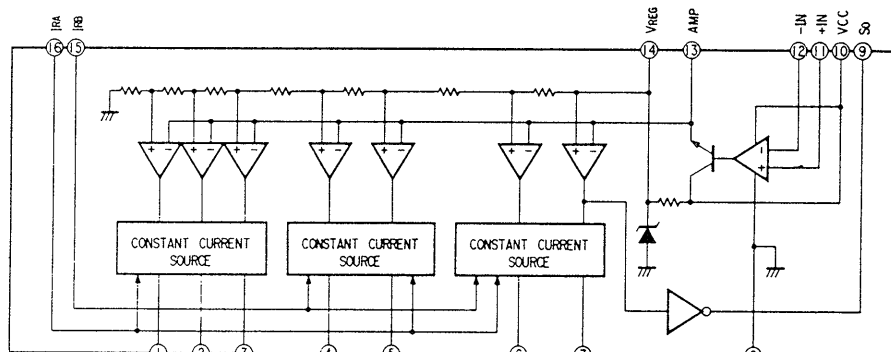
• IC BLOCK DIAGRAM

IC505 μ PC1297CA

IC803 BA6209N



IC301, 401 IR2E02



Note :

- All capacitors are in μ F unless otherwise noted, pF : μ F
- 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- B+ : B+ Line
- B- : B- Line
- $\square$: adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : STOP
- () : REC
- $\blacktriangleright$: FWD $\blacksquare$: STOP
- $\blacktriangleleft$: FF $\bullet$: REC
- $\blacktriangleleft$: REW
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
- $\Rightarrow$: PB (DECK A)
- $\Rightarrow$: REC (DECK A)

SECTION 5

EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

- Color Indication of Appearance Parts
Example:

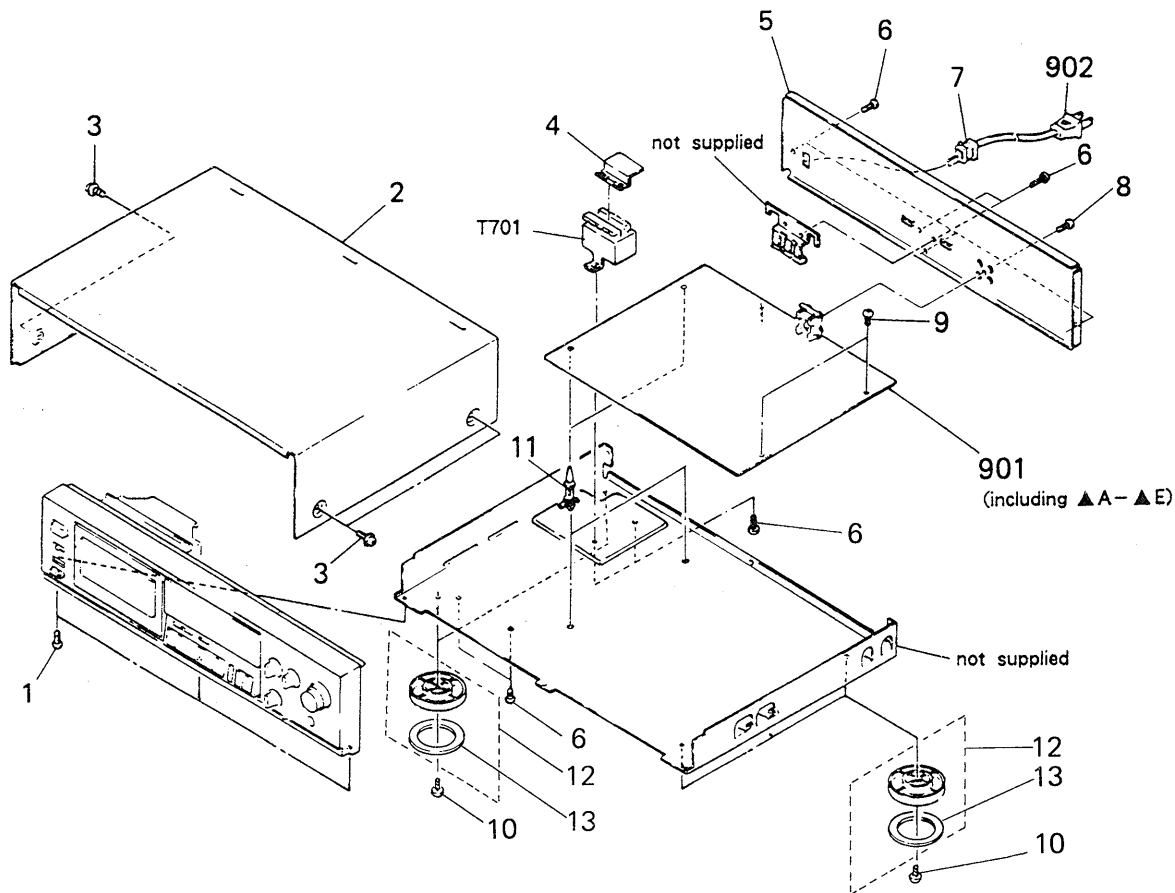
(RED) ... KNOB, BALANCE (WHITE)

↑
Cabinet's Color

↑
Parts Color

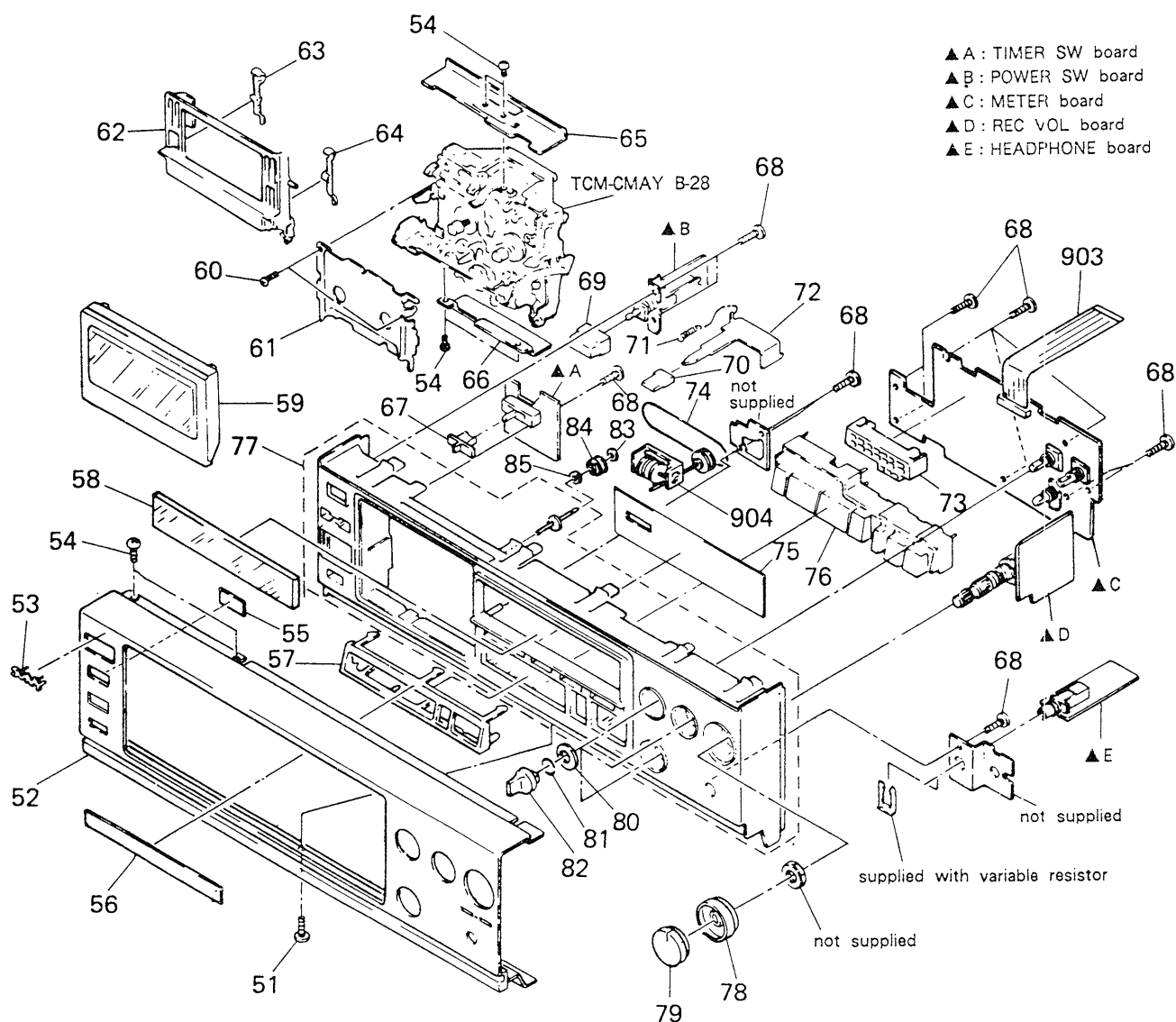
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

6-1. CHASSIS SECTION



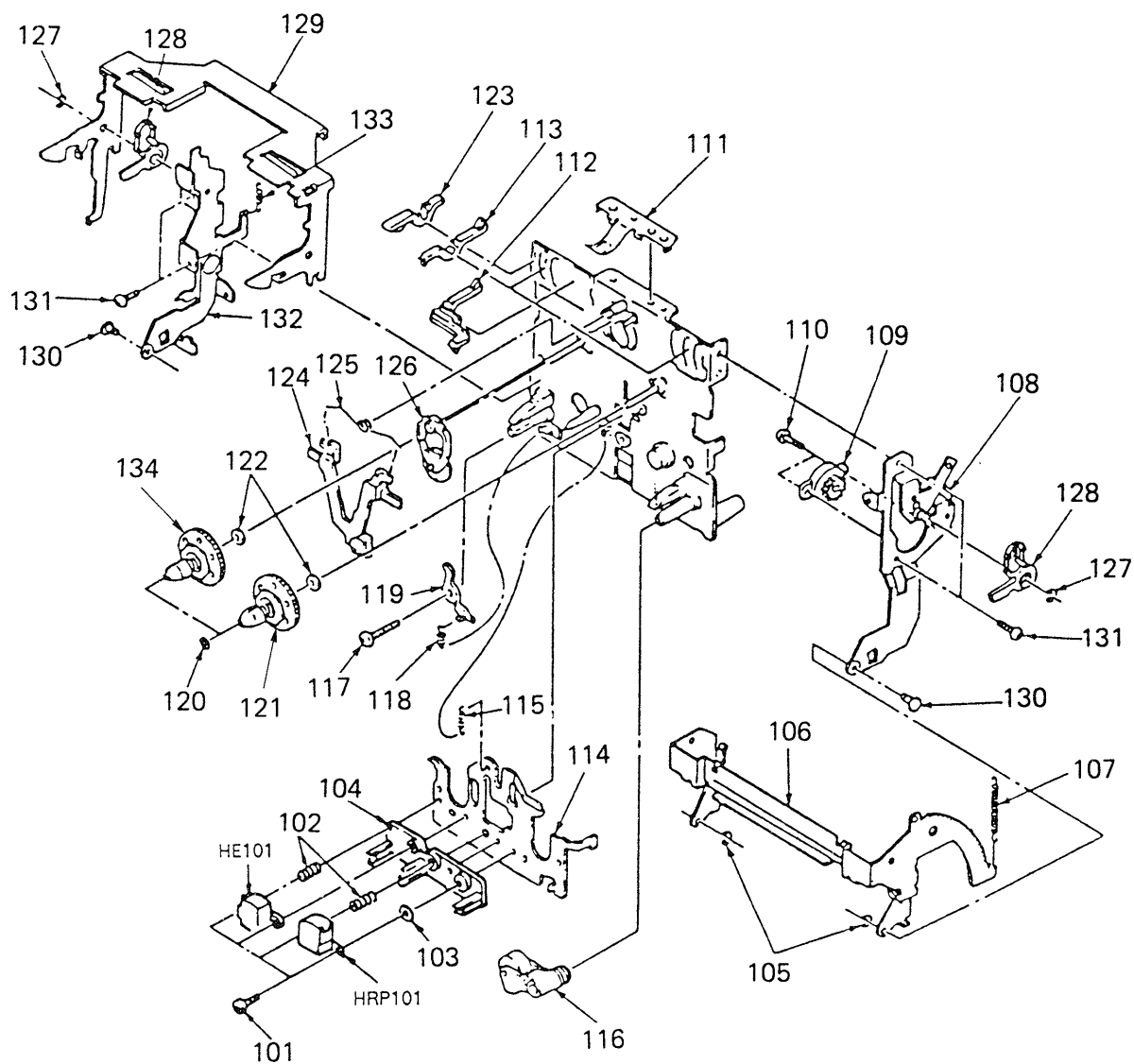
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-703-685-21	SCREW (+BV 3X8)		10	7-682-548-04	SCREW +BVTT 3X8 (S)	
2	3-332-578-61	CASE		11	*3-346-265-11	HOLDER, PC BOARD	
3	3-704-366-01	SCREW (CASE) (M3X8)		12	X-3304-938-2	FOOT ASSY	
4	*3-337-136-01	COVER, TRANSFORMER SAFETY		13	4-923-836-11	CUSHION	
5	*3-350-450-31	(West Germany)....PANEL, BACK		901	*A-2006-106-A	MOUNTED PCB, AUDIO	
	*3-350-450-41	(UK,Australian)....PNNEL, BACK		902	A.1-555-795-00	(AEP).....CORD, POWER, EULO PLUG	
	*3-350-450-51	(AEP).....PANEL, BACK			A.1-556-035-00	(UK,Australian)...CORD, POWER, EULO PLUG	
6	7-682-547-09	SCREW +BVTT 3X6 (S)					
7	*3-703-244-00	BUSHING (2104), CORD		T701	A.1-449-783-11	(AEP).....TRANSFORMER, POWER	
8	7-621-849-00	SCREW, TAPPING		T701	A.1-450-153-11	(UK,Australian)...TRANSFORMER, POWER	
9	4-886-821-11	SCREW, S TIGHT. +PTTWH 3X6					

6.2. FRONT PANEL SECTION



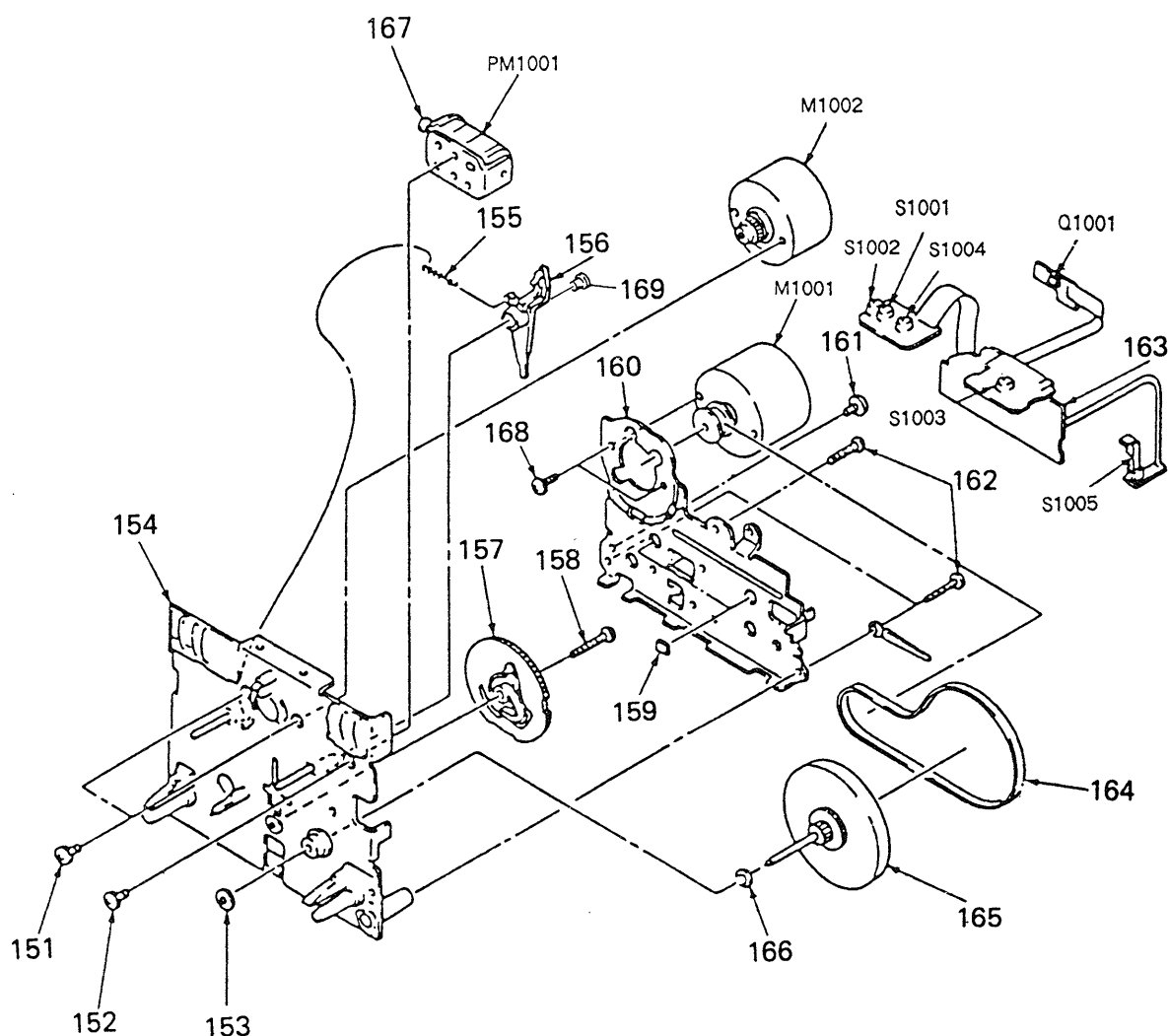
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks	is
51	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S		69	3-354-912-01	KNOB, POWER		
52	3-350-449-23	PANEL, FRONT		70	3-343-698-31	BUTTON (EJECT)		
53	4-908-848-01	EMBLEM, SONY		71	3-571-829-00	SPRING, TENSION		
54	7-682-547-04	SCREW +BVT 3X6 (S)		72	*3-332-564-01	SLIDER (EJC)		
55	3-350-442-01	(AEP)...WINDOW (RM)		73	*3-350-448-01	HOLDER, LED		
56	3-350-443-11	PLATE (K), ORNAMENTAL		74	3-143-124-XX	BELT, TAKE UP		
57	3-350-401-11	PLATE (B), ORNAMENTAL		75	3-350-447-01	PLATE (M), INDICATION		
58	3-350-446-01	WINDOW (M)		76	X-3304-978-1	BUTTON ASSY		
59	A-2003-569-A	LID ASSY, CASSETTE		77	A-2003-570-A	PANEL ASSY, FRONT		
60	7-621-772-00	SCREW +B 2X3		78	3-332-589-01	KNOB (REC VOL-LEFT)		
61	*3-332-547-01	PLATE, ORNAMENTAL		79	3-332-590-01	KNOB (REC VOL-RIGHT)		
62	X-3332-448-1	HOLDER ASSY, CASSETTE		80	3-350-416-01	SPACER		
63	3-307-371-00	SPRING (LEFT)		81	3-350-440-01	SPRING		
64	3-307-372-00	SPRING (RIGHT)		82	4-908-097-21	KNOB		
65	*3-332-561-01	BRACKET (MDU)		83	3-558-708-11	WASHER, STOPPER		
66	*3-350-457-01	BRACKET (MDB)		84	3-549-452-00	PULLEY, SHUT-OFF		
67	3-307-538-21	KNOB, SWITCH, TIMER		85	3-701-437-11	WASHER		
68	4-928-635-01	SCREW, +BV (2.6X8) TAPPING		903	1-574-931-11	WIRE, FLAT TYPE (23 CORE)		
				904	1-548-589-81	COUNTER, TAPE (MIDDLE TYPE)		

6.3. MECHANISM SECTION ①
(TCM-CMAY B-28)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	7-621-955-75	SCREW, TOTSU PWH 2X12		119	3-391-105-01	ARM (B), EJECT SAFETY	
102	3-391-101-01	SPRING		120	3-701-436-11	WASHER, 1.6 POLYETHYLENE	
103	3-701-437-11	WASHER		121	X-3391-107-1	REEL ASSY, T.U	
104	3-392-751-01	SPACER, HEAD		122	3-392-711-01	WASHER (2.1X0.25) (T)	
105	7-624-102-04	STOP RING 1.5, TYPE -E		123	3-392-725-01	LEVER	
106	*3-391-182-01	HOLDER, CASSETTE		124	3-392-754-01	LEVER (C), HOLD	
107	3-391-184-01	SPRING		125	3-391-124-01	SPRING	
108	*3-392-722-01	PLATE HOLD BLK		126	X-3391-111-1	IDLER ASSY	
109	X-3391-151-1	DAMPER ASSY		127	7-624-105-04	STOP RING 2.3, TYPE -E	
110	7-621-255-15	SCREW +PTT 2X3 (S)		128	3-391-185-01	LEVER, STOP	
111	3-391-177-01	SPRING		129	*3-391-180-01	ARM, EJECT	
112	3-392-726-01	LEVER		130	3-391-183-01	SHAFT (B), HOLDER FULCRUM	
113	3-392-724-01	LEVER		131	7-621-773-86	SCREW +PTT 2.6X4 (S)	
114	*3-392-708-01	BASE, HEAD		132	*X-3391-152-1	ARM ASSY, EJECT	
115	3-391-114-01	SPRING		133	3-391-181-01	SP, LEVER RETURN	
116	3-392-731-01	PINCH ROLLER (R) ASSY		134	3-392-748-01	REEL ASSY	
117	3-392-733-01	SCREW		HE101	1-543-535-11	HEAD, ERASE (EF-701-36)	
118	3-391-123-01	SPRING (A)		HRP101	1-543-537-11	HEAD, MAGNETIC (REC/PB)	

6-4. MECHANISM SECTION ②
(TCM-CMAY B-28)



No.	Part No.	Description	Remarks
151	7-621-770-67	SCREW +P 2.6X6	
152	7-621-759-25	+PSW, 2.6X4	
153	3-391-119-01	SEAL, WASHER OIL	
154	3-392-710-01	CHASSIS BASE BLK	
155	3-392-730-01	SP, PLAY ARM	
156	3-392-755-01	ARM, PLAY	
157	3-392-752-01	GEAR (H-2), CAM	
158	3-392-732-01	SCREW (2X15), TT, WASHER	
159	3-391-129-01	SPACER	
160	*3-392-720-01	F/W BKT	
161	7-682-546-04	SCREW +PTT 3X5 (S)	
162	7-685-131-19	SCREW +P 2.6X4 TYPE2 NON-SLIT	
163	3-392-753-01	PCB CONTROL BLK	
164	3-392-756-01	BELT, MAIN	
165	3-392-749-01	ASSY F/W	

No.	Part No.	Description	Remarks
166	3-701-438-01	WASHER	
167	*3-392-707-01	SOLENOID (ARBOR)	
168	7-628-253-90	SCREW +PS 2.6X4	
169	3-391-126-01	CAP	
M1001	X-3391-130-1	MOTOR ASSY	
M1002	3-392-709-01	MTR REEL BLK	
PM1001	3-392-750-01	SOLENOID ASSY	
Q1001	1-807-509-11	PHOTO SENSOR (GP2S09)	
Q1002	1-807-509-11	PHOTO SENSOR (GP2S09)	
S1001	1-571-081-11	SWITCH, LEAF (ERASE PROOF)	
S1002	1-571-081-11	SWITCH, LEAF (CASSETTE HALF DET)	
S1003	1-571-081-11	SWITCH, LEAF (70 DET)	
S1004	1-571-081-11	SWITCH, LEAF (METAL DET)	
S1005	1-571-820-11	SWITCH, LEAF (HEAD SW)	

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA....: μ A...., UPA....: μ PA....,UPC....: μ PC, UPD....: μ PD....

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description					Ref.No.	Part No.	Description				
901	*A-2006-106-A	MOUNTED PCB, AUDIO					C212	1-136-173-00	FILM	0.47MF	5%	50V	
902	1-555-795-00	(AEP).....CORD, POWER, EULO PLUG					C213	1-136-167-00	FILM	0.15MF	5%	50V	
	1-556-035-00	(UK,Australian)..CORD, POWER, EULO PLUG					C214	1-136-169-00	FILM	0.22MF	5%	50V	
903	1-574-931-11	WIRE, FLAT TYPE (23 CORE)					C215	1-136-163-00	FILM	0.068MF	5%	50V	
904	1-548-589-81	COUNTER, TAPE (MIDDLE TYPE)					C216	1-136-155-00	FILM	0.015MF	5%	50V	
C101	1-123-875-11	ELECT	10MF	20%	50V		C217	1-136-161-00	FILM	0.047MF	5%	50V	
C104	1-162-290-31	CERAMIC	470PF	10%	50V		C218	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C105	1-136-158-00	FILM	0.027MF	5%	50V		C219	1-136-153-00	FILM	0.01MF	5%	50V	
C106	1-124-273-00	ELECT	3.3MF	20%	50V		C220	1-123-875-11	ELECT	10MF	20%	50V	
C107	1-136-158-00	FILM	0.027MF	5%	50V		C221	1-136-273-91	FILM	75PF	5%	630V	
C108	1-130-476-00	MYLAR	0.0027MF	5%	50V		C222	1-162-284-31	CERAMIC	150PF	10%	50V	
C109	1-123-875-11	ELECT	10MF	20%	50V		C223	1-124-927-11	ELECT	4.7MF	20%	50V	
C110	1-124-657-00	ELECT	10MF	20%	50V		C224	1-124-477-11	ELECT	47MF	20%	16V	
C111	1-130-479-00	MYLAR	0.0047MF	5%	50V		C225	1-136-161-00	FILM	0.047MF	5%	50V	
C112	1-136-173-00	FILM	0.47MF	5%	50V		C226	1-124-927-11	ELECT	4.7MF	20%	50V	
C113	1-136-167-00	FILM	0.15MF	5%	50V		C227	1-136-154-00	FILM	0.012MF	5%	50V	
C114	1-136-169-00	FILM	0.22MF	5%	50V		C228	1-136-155-00	FILM	0.015MF	5%	50V	
C115	1-136-163-00	FILM	0.068MF	5%	50V		C229	1-136-155-00	FILM	0.015MF	5%	50V	
C116	1-136-155-00	FILM	0.015MF	5%	50V		C230	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C117	1-136-161-00	FILM	0.047MF	5%	50V		C231	1-130-477-00	MYLAR	0.0033MF	5%	50V	
C118	1-130-481-00	MYLAR	0.0068MF	5%	50V		C232	1-130-471-00	MYLAR	0.001MF	5%	50V	
C119	1-136-153-00	FILM	0.01MF	5%	50V		C301	1-130-472-00	MYLAR	0.0012MF	5%	50V	
C120	1-123-875-11	ELECT	10MF	20%	50V		C302	1-136-433-11	FILM	100PF	5%	630V	
C121	1-136-273-91	FILM	75PF	5%	630V		C303	1-136-433-11	FILM	100PF	5%	630V	
C122	1-162-284-31	CERAMIC	150PF	10%	50V		C304	1-136-157-00	FILM	0.022MF	5%	50V	
C123	1-124-927-11	ELECT	4.7MF	20%	50V		C305	1-136-165-00	FILM	0.1MF	5%	50V	
C124	1-124-477-11	ELECT	47MF	20%	16V		C306	1-136-153-00	FILM	0.01MF	5%	50V	
C125	1-136-161-00	FILM	0.047MF	5%	50V		C307	1-124-927-11	ELECT	4.7MF	20%	50V	
C126	1-124-927-11	ELECT	4.7MF	20%	50V		C308	1-124-438-00	ELECT	1MF	20%	50V	
C127	1-136-154-00	FILM	0.012MF	5%	50V		C401	1-130-472-00	MYLAR	0.0012MF	5%	50V	
C128	1-136-155-00	FILM	0.015MF	5%	50V		C402	1-136-433-11	FILM	100PF	5%	630V	
C129	1-136-155-00	FILM	0.015MF	5%	50V		C403	1-136-433-11	FILM	100PF	5%	630V	
C130	1-130-481-00	MYLAR	0.0068MF	5%	50V		C404	1-136-157-00	FILM	0.022MF	5%	50V	
C131	1-130-477-00	MYLAR	0.0033MF	5%	50V		C405	1-136-165-00	FILM	0.1MF	5%	50V	
C132	1-130-471-00	MYLAR	0.001MF	5%	50V		C406	1-136-153-00	FILM	0.01MF	5%	50V	
C201	1-123-875-11	ELECT	10MF	20%	50V		C407	1-126-163-11	ELECT	4.7MF	20%	50V	
C204	1-162-290-31	CERAMIC	470PF	10%	50V		C408	1-124-449-11	ELECT	1MF	20%	50V	
C205	1-136-158-00	FILM	0.027MF	5%	50V		C501	1-124-443-00	ELECT	100MF	20%	10V	
C206	1-124-273-00	ELECT	3.3MF	20%	50V		C502	1-124-443-00	ELECT	100MF	20%	10V	
C207	1-136-158-00	FILM	0.027MF	5%	50V		C503	1-123-382-00	ELECT	3.3MF	20%	50V	
C208	1-130-476-00	MYLAR	0.0027MF	5%	50V		C504	1-124-927-11	ELECT	4.7MF	20%	50V	
C209	1-123-875-11	ELECT	10MF	20%	50V		C505	1-124-443-00	ELECT	100MF	20%	10V	
C210	1-124-657-00	ELECT	10MF	20%	50V		C506	1-124-443-00	ELECT	100MF	20%	10V	
C211	1-130-479-00	MYLAR	0.0047MF	5%	50V		C507	1-124-927-11	ELECT	4.7MF	20%	50V	
							C508	1-124-925-11	ELECT	2.2MF	20%	50V	

Ref.No.	Part No.	Description					Ref.No.	Part No.	Description
C509	1-124-477-11	ELECT	47MF	20%	16V		D408	8-719-301-38	LED SLL2210S-C (LEVEL METER R)
C510	1-124-477-11	ELECT	47MF	20%	16V		D501	8-719-107-94	DIODE 1SS202-1
C511	1-107-045-00	MICA	3.9PF	0.5PF	500V		D502	8-719-107-94	DIODE 1SS202-1
C512	1-136-601-11	FILM	0.01MF	5%	630V		D503	8-719-107-94	DIODE 1SS202-1
C513	1-123-875-11	ELECT	10MF	20%	50V		D504	8-719-107-94	DIODE 1SS202-1
C514	1-130-848-00	FILM	0.0082MF	5%	100V		D505	8-719-107-94	DIODE 1SS202-1
C515	1-136-593-11	FILM	0.0033MF	5%	100V		D701	8-719-200-77	DIODE 10E2N
C516	1-136-593-11	FILM	0.0033MF	5%	100V		D702	8-719-200-77	DIODE 10E2N
C517	1-124-446-11	ELECT	47MF	20%	10V		D703	8-719-200-77	DIODE 10E2N
C518	1-124-477-11	ELECT	47MF	20%	16V		D704	8-719-200-77	DIODE 10E2N
C519	1-124-902-00	ELECT	0.47MF	20%	50V		D705	8-719-200-77	DIODE 10E2N
C520	1-124-589-11	ELECT	47MF	20%	10V		D706	8-719-200-77	DIODE 10E2N
C522	1-161-494-00	CERAMIC	0.022MF		25V		D707	8-719-107-94	DIODE 1SS202-1
C701	1-124-927-11	ELECT	4.7MF	20%	50V		D708	8-719-200-77	DIODE 10E2N
C702	1-124-556-11	ELECT	2200MF	20%	16V		D709	8-719-933-33	DIODE HZS6A1L
C703	1-124-556-11	ELECT	2200MF	20%	16V		D710	8-719-933-33	DIODE HZS6A1L
C704	1-124-477-11	ELECT	47MF	20%	16V		D801	8-719-107-94	DIODE 1SS202-1
C705	1-124-477-11	ELECT	47MF	20%	16V		D802	8-719-933-33	DIODE HZS6A1L
C706	1-124-473-11	ELECT	1000MF	20%	10V		D803	8-719-200-77	DIODE 10E2N
C707	1-124-473-11	ELECT	1000MF	20%	10V		D804	8-719-107-94	DIODE 1SS202-1
C801	1-124-927-11	ELECT	4.7MF	20%	50V		D805	8-719-107-94	DIODE 1SS202-1
C803	1-161-494-00	CERAMIC	0.022MF		25V		D806	8-719-107-94	DIODE 1SS202-1
C804	1-162-294-31	CERAMIC	0.001MF	10%	50V		D807	8-719-107-94	DIODE 1SS202-1
C805	1-124-443-00	ELECT	100MF	20%	10V		D808	8-719-107-94	DIODE 1SS202-1
C806	1-136-165-00	FILM	0.1MF	5%	50V		D901	8-719-302-79	LED SEL1910A-C (PAUSE)
C807	1-136-165-00	FILM	0.1MF	5%	50V		D902	8-719-302-45	LED SEL1210S (PLAY)
C808	1-161-379-00	CERAMIC	0.01MF	30%	16V		D903	8-719-302-46	LED SEL1210S-C (REC)
C809	1-162-282-31	CERAMIC	100PF	10%	50V		D904	8-719-301-44	LED SEL2410E-D (TYPE I)
C810	1-161-494-00	CERAMIC	0.022MF		25V		D905	8-719-301-44	LED SEL2410E-D (TYPE II)
C811	1-124-925-11	ELECT	2.2MF	20%	50V		D906	8-719-301-44	LED SEL2410E-D (TYPE IV)
C812	1-124-925-11	ELECT	2.2MF	20%	50V		HE101	1-543-535-11	HEAD, ERASE (EF-701-36)
C813	1-124-925-11	ELECT	2.2MF	20%	50V		HRP101	1-543-537-11	HEAD, MAGNETIC (REC/PB)
C814	1-124-477-11	ELECT	47MF	20%	16V				
C901	1-124-443-00	ELECT	100MF	20%	10V		IC301	8-759-912-79	IC IR2E02
C902	1-162-294-31	CERAMIC	0.001MF	10%	50V		IC401	8-759-912-79	IC IR2E02
C910	1-162-284-31	CERAMIC	150PF	10%	50V		IC501	8-759-945-58	IC RC4558P
C911	1-162-284-31	CERAMIC	150PF	10%	50V				
CN501	*1-564-509-11	PLUG, CONNECTOR 6P					IC502	8-759-111-44	IC UPC4570C-1
CN502	*1-564-506-11	PLUG, CONNECTOR 3P					IC503	8-752-018-70	IC CX20187
CN503	*1-564-506-11	PLUG, CONNECTOR 3P					IC504	8-759-601-02	IC M5218P
CN802	1-568-742-11	SOCKET, CONNECTOR 23P					IC505	8-759-106-56	IC UPC1297CA
CN901	1-568-741-11	SOCKET, CONNECTOR 23P					IC701	8-759-945-58	IC RC4558P
							IC801	8-759-633-31	IC M50925-385SP
D301	8-719-301-44	LED SEL2410E-D (LEVEL METER L)					IC802	8-759-140-11	IC UPD4011BC
D302	8-719-301-44	LED SEL2410E-D (LEVEL METER L)					IC803	8-759-988-58	IC BA6209N
D303	8-719-301-44	LED SEL2410E-D (LEVEL METER L)					IC804	8-759-945-58	IC RC4558P
D304	8-719-301-44	LED SEL2410E-D (LEVEL METER L)					IC901	8-759-602-47	IC M50761-417P
D305	8-719-301-44	LED SEL2410E-D (LEVEL METER L)					IC902	8-749-920-83	IC GPIU52XB
D306	8-719-301-38	LED SEL2210S-C (LEVEL METER L)					J501	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)
D307	8-719-301-38	LED SEL2210S-C (LEVEL METER L)					J502	1-507-796-71	JACK (HEADPHONES)
D308	8-719-301-38	LED SLL2210S-C (LEVEL METER L)					L101	1-410-780-11	INDUCTOR 27MMH
D401	8-719-301-44	LED SEL2410E-D (LEVEL METER R)					L102	1-410-771-11	INDUCTOR 4.7MMH
D402	8-719-301-44	LED SEL2410E-D (LEVEL METER R)					L201	1-410-780-11	INDUCTOR 27MMH
D403	8-719-301-44	LED SEL2410E-D (LEVEL METER R)					L202	1-410-771-11	INDUCTOR 4.7MMH
D404	8-719-301-44	LED SEL2410E-D (LEVEL METER R)							
D405	8-719-301-44	LED SEL2410E-D (LEVEL METER R)					LPF101	1-231-388-00	FILTER, LOW PASS
D406	8-719-301-38	LED SEL2210S-C (LEVEL METER R)					LPF201	1-231-388-00	FILTER, LOW PASS
D407	8-719-301-38	LED SEL2210S-C (LEVEL METER R)							

Ref.No.	Part No.	Description
M1001	X-3391-130-1	MOTOR ASSY
M1002	3-392-709-01	MTR REEL BLK
PM1001	3-392-750-01	SOLENOID ASSY
Q101	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q102	8-729-900-80	TRANSISTOR DTC114ES
Q103	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q104	8-729-900-74	TRANSISTOR DTC143TS
Q105	8-729-900-80	TRANSISTOR DTC114ES
Q106	8-729-900-80	TRANSISTOR DTC114ES
Q107	8-729-900-80	TRANSISTOR DTC114ES
Q108	8-729-900-80	TRANSISTOR DTC114ES
Q201	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q202	8-729-900-80	TRANSISTOR DTC114ES
Q203	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q204	8-729-900-74	TRANSISTOR DTC143TS
Q205	8-729-900-80	TRANSISTOR DTC114ES
Q206	8-729-900-80	TRANSISTOR DTC114ES
Q207	8-729-900-80	TRANSISTOR DTC114ES
Q208	8-729-900-80	TRANSISTOR DTC114ES
Q501	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q502	8-729-900-80	TRANSISTOR DTC114ES
Q503	8-729-194-57	TRANSISTOR 2SC945-P
Q504	8-729-194-57	TRANSISTOR 2SC945-P
Q505	8-729-900-89	TRANSISTOR DTC144ES
Q506	8-729-900-80	TRANSISTOR DTC114ES
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q508	8-729-900-80	TRANSISTOR DTC114ES
Q509	8-729-900-65	TRANSISTOR DTA144ES
Q701	8-729-920-97	TRANSISTOR 2SB1187-EF
Q702	8-729-920-98	TRANSISTOR 2SD1761-EF
Q801	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q802	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q803	8-729-900-65	TRANSISTOR DTA144ES
Q804	8-729-900-65	TRANSISTOR DTA144ES
Q805	8-729-900-65	TRANSISTOR DTA144ES
Q806	8-729-900-65	TRANSISTOR DTA144ES
Q807	8-729-900-61	TRANSISTOR DTA114ES
Q808	8-729-900-65	TRANSISTOR DTA144ES
Q809	8-729-801-84	TRANSISTOR 2SB1013-4
Q810	8-729-821-31	TRANSISTOR 2SD1012-FG
Q811	8-729-801-84	TRANSISTOR 2SB1013-4
Q812	8-729-900-61	TRANSISTOR DTA114ES
Q813	8-729-900-61	TRANSISTOR DTA114ES
Q814	8-729-900-61	TRANSISTOR DTA114ES
Q815	8-729-900-61	TRANSISTOR DTA114ES
Q816	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q817	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q901	8-729-900-61	TRANSISTOR DTA114ES
Q1001	1-807-509-11	PHOTO SENSOR (GP2S09)
R101	1-249-417-11	CARBON 1K 5% 1/4W
R102	1-249-435-11	CARBON 33K 5% 1/4W
R103	1-249-438-11	CARBON 56K 5% 1/4W
R104	1-249-421-11	CARBON 2.2K 5% 1/4W
R105	1-249-429-11	CARBON 10K 5% 1/4W
R106	1-249-428-11	CARBON 8.2K 5% 1/4W

Ref.No.	Part No.	Description
R107	1-249-427-11	CARBON 6.8K 5% 1/4W
R108	1-249-409-11	CARBON 220 5% 1/4W
R109	1-247-866-11	CARBON 30K 5% 1/4W
R110	1-247-858-11	CARBON 13K 5% 1/4W
R111	1-247-891-00	CARBON 330K 5% 1/4W
R112	1-249-405-11	CARBON 100 5% 1/4W
R113	1-247-882-11	CARBON 130K 5% 1/4W
R114	1-247-848-11	CARBON 5.1K 5% 1/4W
R115	1-249-421-11	CARBON 2.2K 5% 1/4W
R116	1-247-840-00	CARBON 2.4K 5% 1/4W
R117	1-247-887-00	CARBON 220K 5% 1/4W
R118	1-249-417-11	CARBON 1K 5% 1/4W
R119	1-249-441-11	CARBON 100K 5% 1/4W
R120	1-249-423-11	CARBON 3.3K 5% 1/4W
R121	1-249-428-11	CARBON 8.2K 5% 1/4W
R122	1-249-421-11	CARBON 2.2K 5% 1/4W
R123	1-247-840-00	CARBON 2.4K 5% 1/4W
R124	1-247-846-11	CARBON 4.3K 5% 1/4W
R125	1-247-822-11	CARBON 430 5% 1/4W
R126	1-249-427-11	CARBON 6.8K 5% 1/4W
R127	1-249-415-11	CARBON 680 5% 1/4W
R128	1-249-431-11	CARBON 15K 5% 1/4W
R129	1-249-430-11	CARBON 12K 5% 1/4W
R130	1-249-421-11	CARBON 2.2K 5% 1/4W
R131	1-249-429-11	CARBON 10K 5% 1/4W
R132	1-249-441-11	CARBON 100K 5% 1/4W
R133	1-247-887-00	CARBON 220K 5% 1/4W
R134	1-249-421-11	CARBON 2.2K 5% 1/4W
R135	1-249-437-11	CARBON 47K 5% 1/4W
R136	1-249-437-11	CARBON 47K 5% 1/4W
R137	1-249-396-11	CARBON 18 5% 1/4W
R138	1-249-393-11	CARBON 10 5% 1/4W
R139	1-249-425-11	CARBON 4.7K 5% 1/4W
R140	1-249-424-11	CARBON 3.9K 5% 1/4W
R141	1-249-429-11	CARBON 10K 5% 1/4W
R142	1-249-441-11	CARBON 100K 5% 1/4W
R143	1-249-408-11	CARBON 180 5% 1/4W
R201	1-249-417-11	CARBON 1K 5% 1/4W
R202	1-249-435-11	CARBON 33K 5% 1/4W
R203	1-249-438-11	CARBON 56K 5% 1/4W
R204	1-249-421-11	CARBON 2.2K 5% 1/4W
R205	1-249-429-11	CARBON 10K 5% 1/4W
R206	1-249-428-11	CARBON 8.2K 5% 1/4W
R207	1-249-427-11	CARBON 6.8K 5% 1/4W
R208	1-249-409-11	CARBON 220 5% 1/4W
R209	1-247-866-11	CARBON 30K 5% 1/4W
R210	1-247-858-11	CARBON 13K 5% 1/4W
R211	1-247-891-00	CARBON 330K 5% 1/4W
R212	1-249-405-11	CARBON 100 5% 1/4W
R213	1-247-882-11	CARBON 130K 5% 1/4W
R214	1-247-848-11	CARBON 5.1K 5% 1/4W
R215	1-249-421-11	CARBON 2.2K 5% 1/4W
R216	1-247-840-00	CARBON 2.4K 5% 1/4W
R217	1-247-887-00	CARBON 220K 5% 1/4W
R218	1-249-417-11	CARBON 1K 5% 1/4W
R219	1-249-441-11	CARBON 100K 5% 1/4W
R220	1-249-423-11	CARBON 3.3K 5% 1/4W

Ref.No.	Part No.	Description			
R221	1-249-428-11	CARBON	8.2K	5%	1/4W
R222	1-249-421-11	CARBON	2.2K	5%	1/4W
R223	1-247-840-00	CARBON	2.4K	5%	1/4W
R224	1-247-846-11	CARBON	4.3K	5%	1/4W
R225	1-247-822-11	CARBON	430	5%	1/4W
R226	1-249-427-11	CARBON	6.8K	5%	1/4W
R227	1-249-415-11	CARBON	680	5%	1/4W
R228	1-249-431-11	CARBON	15K	5%	1/4W
R229	1-249-430-11	CARBON	12K	5%	1/4W
R230	1-249-421-11	CARBON	2.2K	5%	1/4W
R231	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-441-11	CARBON	100K	5%	1/4W
R233	1-247-887-00	CARBON	220K	5%	1/4W
R234	1-249-421-11	CARBON	2.2K	5%	1/4W
R235	1-249-437-11	CARBON	47K	5%	1/4W
R236	1-249-437-11	CARBON	47K	5%	1/4W
R237	1-249-396-11	CARBON	18	5%	1/4W
R238	1-249-393-11	CARBON	10	5%	1/4W
R239	1-249-425-11	CARBON	4.7K	5%	1/4W
R240	1-249-424-11	CARBON	3.9K	5%	1/4W
R241	1-249-429-11	CARBON	10K	5%	1/4W
R242	1-249-441-11	CARBON	100K	5%	1/4W
R243	1-249-408-11	CARBON	180	5%	1/4W
R301	1-247-883-00	CARBON	150K	5%	1/4W
R302	1-249-431-11	CARBON	15K	5%	1/4W
R303	1-249-393-11	CARBON	10	5%	1/4W
R304	1-249-441-11	CARBON	100K	5%	1/4W
R305	1-249-432-11	CARBON	18K	5%	1/4W
R306	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-249-438-11	CARBON	56K	5%	1/4W
R308	1-249-431-11	CARBON	15K	5%	1/4W
R309	1-249-421-11	CARBON	2.2K	5%	1/4W
R310	1-249-432-11	CARBON	18K	5%	1/4W
R401	1-247-883-00	CARBON	150K	5%	1/4W
R402	1-249-431-11	CARBON	15K	5%	1/4W
R403	1-249-393-11	CARBON	10	5%	1/4W
R404	1-249-441-11	CARBON	100K	5%	1/4W
R405	1-249-432-11	CARBON	18K	5%	1/4W
R406	1-249-441-11	CARBON	100K	5%	1/4W
R407	1-249-438-11	CARBON	56K	5%	1/4W
R408	1-249-431-11	CARBON	15K	5%	1/4W
R409	1-249-421-11	CARBON	2.2K	5%	1/4W
R410	1-249-432-11	CARBON	18K	5%	1/4W
R501	1-249-409-11	CARBON	220	5%	1/4W
R502	1-249-409-11	CARBON	220	5%	1/4W
R503	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-249-409-11	CARBON	220	5%	1/4W
R505	1-249-429-11	CARBON	10K	5%	1/4W
R506	1-249-431-11	CARBON	15K	5%	1/4W
R507	1-249-421-11	CARBON	2.2K	5%	1/4W
R508	1-249-437-11	CARBON	47K	5%	1/4W
R509	1-249-437-11	CARBON	47K	5%	1/4W
R510	1-249-441-11	CARBON	100K	5%	1/4W
R511	1-249-405-11	CARBON	100	5%	1/4W
R512	1-215-469-00	METAL	100K	1%	1/6W
R513	1-249-421-11	CARBON	2.2K	5%	1/4W
R514	1-249-441-11	CARBON	100K	5%	1/4W

Ref.No.	Part No.	Description			
R515	1-249-390-11	CARBON	5.6	5%	1/4W
R516	1-249-438-11	CARBON	56K	5%	1/4W
R517	1-249-438-11	CARBON	56K	5%	1/4W
R518	1-247-858-11	CARBON	13K	5%	1/4W
R519	1-249-435-11	CARBON	33K	5%	1/4W
R520	1-247-844-11	CARBON	3.6K	5%	1/4W
R521	1-249-429-11	CARBON	10K	5%	1/4W
R522	1-249-429-11	CARBON	10K	5%	1/4W
R525	1-249-404-00	CARBON	82	5%	1/4W
R526	1-247-842-11	CARBON	3K	5%	1/4W
R701	1-247-756-11	CARBON	2.2K	5%	1/2W
R702	1-249-425-11	CARBON	4.7K	5%	1/4W
R703	1-249-427-11	CARBON	6.8K	5%	1/4W
R704	1-249-428-11	CARBON	8.2K	5%	1/4W
R705	1-249-419-11	CARBON	1.5K	5%	1/4W
R706	1-249-419-11	CARBON	1.5K	5%	1/4W
R707	1-249-427-11	CARBON	6.8K	5%	1/4W
R708	1-249-425-11	CARBON	4.7K	5%	1/4W
R709	1-249-417-11	CARBON	1K	5%	1/4W
R710	1-249-427-11	CARBON	6.8K	5%	1/4W
R711	1-249-419-11	CARBON	1.5K	5%	1/4W
R801	1-249-416-11	CARBON	820	5%	1/4W
R802	1-249-425-11	CARBON	4.7K	5%	1/4W
R803	1-249-437-11	CARBON	47K	5%	1/4W
R804	1-249-437-11	CARBON	47K	5%	1/4W
R805	1-249-437-11	CARBON	47K	5%	1/4W
R806	1-249-421-11	CARBON	2.2K	5%	1/4W
R808	1-249-421-11	CARBON	2.2K	5%	1/4W
R810	1-249-415-11	CARBON	680	5%	1/4W
R811	1-249-433-11	CARBON	22K	5%	1/4W
R812	1-247-887-00	CARBON	220K	5%	1/4W
R813	1-249-437-11	CARBON	47K	5%	1/4W
R814	1-249-437-11	CARBON	47K	5%	1/4W
R815	1-249-417-11	CARBON	1K	5%	1/4W
R816	1-249-437-11	CARBON	47K	5%	1/4W
R817	1-249-417-11	CARBON	1K	5%	1/4W
R818	1-249-437-11	CARBON	47K	5%	1/4W
R819	1-249-437-11	CARBON	47K	5%	1/4W
R820	1-249-437-11	CARBON	47K	5%	1/4W
R821	1-249-421-11	CARBON	2.2K	5%	1/4W
R822	1-249-437-11	CARBON	47K	5%	1/4W
R823	1-249-437-11	CARBON	47K	5%	1/4W
R824	1-249-437-11	CARBON	47K	5%	1/4W
R825	1-247-903-00	CARBON	1M	5%	1/4W
R826	1-247-826-00	CARBON	620	5%	1/4W
R827	1-249-415-11	CARBON	680	5%	1/4W
R828	1-249-416-11	CARBON	820	5%	1/4W
R829	1-249-435-11	CARBON	33K	5%	1/4W
R830	1-249-409-11	CARBON	220	5%	1/4W
R832	1-249-441-11	CARBON	100K	5%	1/4W
R833	1-249-423-11	CARBON	3.3K	5%	1/4W
R834	1-249-441-11	CARBON	100K	5%	1/4W
R835	1-249-428-11	CARBON	8.2K	5%	1/4W
R836	1-249-441-11	CARBON	100K	5%	1/4W
R837	1-249-417-11	CARBON	1K	5%	1/4W
R838	1-249-433-11	CARBON	22K	5%	1/4W
R839	1-249-429-11	CARBON	10K	5%	1/4W

Ref.No.	Part No.	Description
R840	1-249-441-11	CARBON 100K 5% 1/4W
R841	1-249-413-11	CARBON 470 5% 1/4W
R842	1-249-437-11	CARBON 47K 5% 1/4W
R901	1-249-409-11	CARBON 220 5% 1/4W
R902	1-249-409-11	CARBON 220 5% 1/4W
R903	1-249-412-11	CARBON 390 5% 1/4W
R904	1-247-826-00	CARBON 620 5% 1/4W
R905	1-247-830-11	CARBON 910 5% 1/4W
R906	1-247-826-00	CARBON 620 5% 1/4W
R907	1-247-830-11	CARBON 910 5% 1/4W
R908	1-249-420-11	CARBON 1.8K 5% 1/4W
R909	1-249-432-11	CARBON 18K 5% 1/4W
R910	1-249-430-11	CARBON 12K 5% 1/4W
R911	1-249-433-11	CARBON 22K 5% 1/4W
R912	1-247-903-00	CARBON 1M 5% 1/4W
R913	1-249-422-11	CARBON 2.7K 5% 1/4W
R914	1-249-425-11	CARBON 4.7K 5% 1/4W
R915	1-249-420-11	CARBON 1.8K 5% 1/4W
R916	1-249-435-11	CARBON 33K 5% 1/4W
R917	1-249-427-11	CARBON 6.8K 5% 1/4W
R918	1-249-409-11	CARBON 220 5% 1/4W
R919	1-249-409-11	CARBON 220 5% 1/4W
R920	1-249-409-11	CARBON 220 5% 1/4W
RV101	1-228-994-00	RES, ADJ, CARBON 10K(PLAYBACK LEVEL L)
RV102	1-228-994-00	RES, ADJ, CARBON 10K(RECORD LEVEL L)
RV201	1-228-994-00	RES, ADJ, CARBON 10K(PLAYBACK LEVEL R)
RV202	1-228-994-00	RES, ADJ, CARBON 10K(RECORD LEVEL R)
RV301	1-228-995-00	RES, ADJ, CARBON 22K(RECORD BIAS L)
RV401	1-228-995-00	RES, ADJ, CARBON 22K(RECORD BIAS R)
RV501	1-238-097-11	RES, VAR, CARBON 20K/20K (REC LEVEL)
RV901	1-238-373-11	RES, VAR, CARBON 5K (BIAS)
RY501	1-515-683-11	RELAY

Ref.No.	Part No.	Description
S901	1-554-596-21	SWITCH, KEY BOARD (PAUSE)
S902	1-554-596-21	SWITCH, KEY BOARD (PLAY)
S903	1-554-596-21	SWITCH, KEY BOARD (REC MUTE)
S904	1-554-596-21	SWITCH, KEY BOARD (STOP)
S905	1-554-596-21	SWITCH, KEY BOARD (REW)
S906	1-554-596-21	SWITCH, KEY BOARD (FF)
S907	1-554-596-21	SWITCH, KEY BOARD (REC)
S908	1-571-741-11	SWITCH, ROTARY (DOLBY NR)
S909	1-571-742-11	SWITCH, ROTARY (MPX FILTER)
S910	1-516-781-XX	SWITCH, SLIDE (TIMER)
S911	1-570-103-21	SWITCH, PUSH (1 KEY)(POWER ON/OFF)
S1001	1-571-081-11	SWITCH, LEAF (ERASE PROOF)
S1002	1-571-081-11	SWITCH, LEAF (CASSETTE.HALF DET)
S1003	1-571-081-11	SWITCH, LEAF (70 DET)
S1004	1-571-081-11	SWITCH, LEAF (METAL DET)
S1005	1-571-820-11	SWITCH, LEAF (HEAD SW)
SPK101	1-235-186-00	ENCAPSULATED COMPONENT (BIAS CONSUMPTION L)
SPK201	1-235-186-00	ENCAPSULATED COMPONENT (BIAS CONSUMPTION R)
T301	1-433-354-11	TRANSFORMER, BIAS OSCILLATION
T401	1-433-354-11	TRANSFORMER, BIAS OSCILLATION
T501	1-433-355-11	TRANSFORMER, BIAS OSCILLATION
T701	△ 1-449-783-11	(AEP).....TRANSFORMER, POWER
T701	△ 1-450-153-11	(UK,Australian)...TRANSFORMER, POWER
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)
X901	1-527-532-00	OSCILLATOR, CERAMIC (400kHz)

ACCESSORY & PACKING MATERIAL

1-559-533-11	CORD, CONNECTION
*3-354-979-11	INDIVIDUAL CARTON
*3-349-005-01	CUSHION
3-751-803-11	(UK,Australian)...MANUAL, INSTRUCTION
3-751-803-41	(AEP).....MANUAL, INSTRUCTION
3-751-803-51	(West Germany)....MANUAL, INSTRUCTION

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

TC-K420

SONY SERVICE MANUAL

AEP Model
UK Model
Australian Model

CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT			CORRECT		
	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>
16	77	A-2003-570-A	PANEL ASSY, FRONT	77	 <u>X-3304-953-1</u>	 <u>PANEL (BASE) ASSY</u>