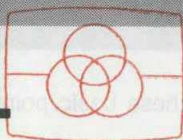


TC-WR610

SERVICE MANUAL



Free service manuals

Gratis schema's

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US Model
Canadian Model
AEP Model
UK Model



Photo: US, Canadian Model

SPECIFICATIONS

Recording system 4-track 2-channel stereo
Fast winding time Approx. 90 sec. (with HF-60 cassette)
Bias AC Bias
Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
Cassette			
TYPE IV (Sony METAL-ES)	58 dB	65 dB	71 dB
TYPE II (Sony UX-S)	57 dB	64 dB	70 dB
TYPE I (Sony HF-S)	54 dB	61 dB	67 dB

Total harmonic distortion 1.0 % (with Sony METAL-ES cassettes)

Frequency response (DOLBY NR OFF)

TYPE IV cassette (Sony METAL-ES)	30-15,000 Hz (± 3 dB) 30-13,000 Hz (OVU recording)
TYPE II cassette (Sony UX-S)	30-15,000 Hz (± 3 dB)
TYPE I cassette (Sony HF-S)	30-14,000 Hz (± 3 dB)

Wow and flutter 0.09% WRMS (NAB)

Inputs

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

Outputs

Line outputs (phono jacks)	Rated output level	0.44 V (-5 dB) at a load impedance 47k ohms
	Load impedance	Over 10k ohms
Headphone output (stereo phone jack)	Output level	0-0.3 mW at a load impedance of 32 ohms

Model Name Using Similar Mechanism	TC-WR9ES TC-WR800
Tape Transport Mechanism Type	deck A: TCM-170RA2
	US, Canadian model deck B: TCM-170RB6
	AEP, UK model deck B: TCM-170RB15

General

Power requirements

120 V AC, 60 Hz (US, Canadian Model)
220 V AC, 50/60 Hz (AEP Model)
240 V AC, 50/60 Hz (UK Model)

Power consumption

26 watts

Dimensions

Approx. 430 \times 118 \times 275 mm (w/h/d)
(17 \times 4 $\frac{3}{4}$ \times 10 $\frac{7}{8}$ inches)

Weight


including projecting parts and controls
Approx. 4.3 kg (9 lbs 8 oz)

Supplied accessory

Audio connecting cord (2)

Design and specifications subject to change without notice.

Dolby noise reduction manufactured under license from
Dolby Laboratories Licensing Corporation.

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



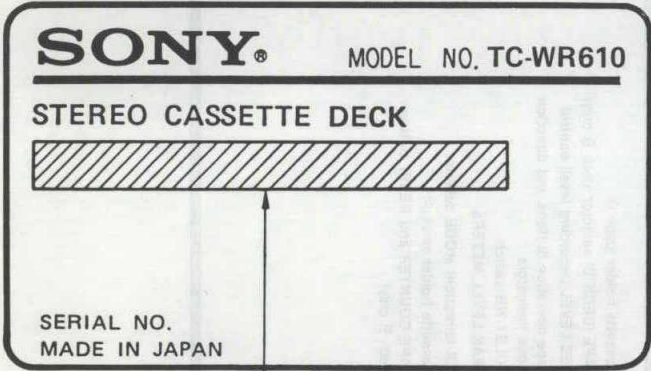
STEREO CASSETTE DECK
SONY[®]

TABLE OF CONTENTS

Section	Title	Page
	Specifications	1
	Model Identification	2
	Safety Check-out	2
1.	GENERAL	
	Identification of Front Panel Parts	3
	Connections	3
	Troubleshooting Guide	4
2.	DISASSEMBLY	5
3.	ADJUSTMENTS	
3-1.	Mechanical Adjustments	6
3-2.	Electrical Adjustments	6
4.	DIAGRAMS	
4-1.	Circuit Boards Location	8
4-2.	Printed Wiring Boards	10
4-3.	System Control Section Schematic Diagram	15
4-4.	Audio Section Schematic Diagram	20
5.	EXPLODED VIEWS	25
6.	ELECTRICAL PARTS LIST	30



MODEL IDENTIFICATION

— Specification Label —



AEP Model: AC: 220 V ~ 50/60 Hz 26 W
UK Model: AC: 240 V ~ 50/60 Hz 26 W
US, Canadian Model: AC: 120 V 60 Hz 26 W

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

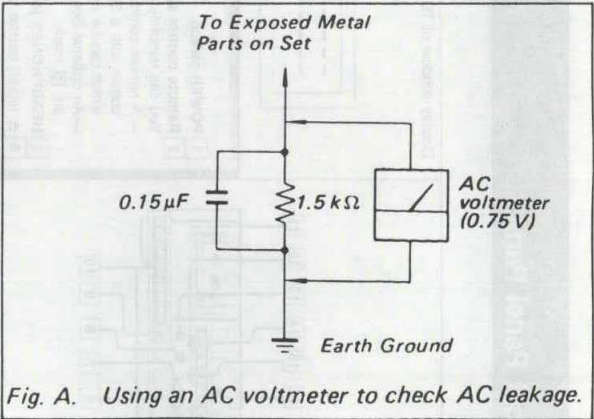



Fig. A. Using an AC voltmeter to check AC leakage.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

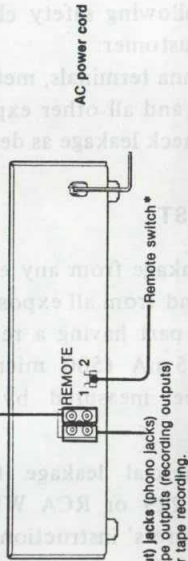
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

Connections

Identification of Rear Panel Parts

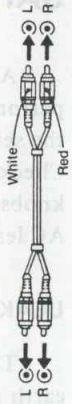
LINE OUT (line output) jacks (phono jacks)
Connect to the tape inputs of an amplifier for playback.



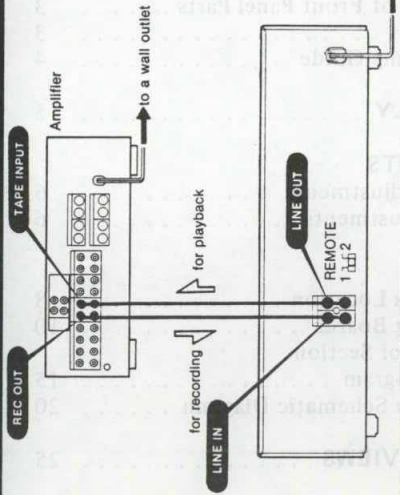
LINE IN (line input) jacks (phono jacks)
Connect to the tape outputs (recording outputs) of an amplifier for tape recording.

Notes on Connections

- Turn off the power to all equipment before making any connection.
- Note that the red plug of the supplied connecting cord is for right-channel (R) connection and the white plug for left-channel (L) connection.
- The connecting cords should be fully inserted into the jacks. A loose connection may cause hum pick-up.



Connection Diagram

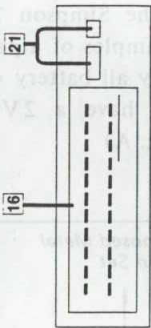


* REMOTE switch

If you have a remote commander supplied with a Sony receiver or amplifier, you can control both decks by using the A/B deck selector.
However, if your commander is not equipped with an A/B deck selector and controls only deck A, setting this switch will allow you to control both decks.

Identification of Front Panel Parts

Display window of TC-WR610

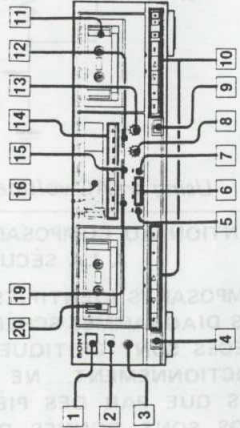


1 POWER switch

Remote control sensor
You can remotely control this cassette deck with:
— A remote commander that has an mark and comes with a Sony amplifier or receiver and which can be used to control a cassette deck.
— An optional Sony remote commander that has an mark.

3 HEADPHONES jack (stereo phone jack)

4 (eject) button (deck A)



- 11 Cassette holder (deck B)
- 12 TAPE (DECK B) selector (deck B only)
- 13 REC LEVEL (recording level) control
- 14 Tape operation buttons and direction mode indicators
- 15 DOLBY NR switch
- 16 PEAK LEVEL METER
- 19 DIR (direction) MODE selector
- 20 Cassette holder (deck A)
- 21 TAPE COUNTER and RESET button (deck B only)

- 5 AMS (Automatic music sensor)/BLK (blank) SKIP button and indicator
- 6 SYNCHRO DUBBING button and indicators
- 7 HIGH SPEED/NORMAL SPEED
- 7 AUTO PAUSE button and indicator
- 8 BALANCE control
Adjusts the balance of right and left channels during recording.
- 9 (eject) button (deck B)
- 10 Tape operation buttons
◀ (left fast winding) button
▶ (rightward fast winding) button
◀ (reverse play) button
▶ (stop) button
● REC (RECORD) button (deck B only)
|| PAUSE button (deck B only)
○ REC MUTE (record muting) button (deck B only)

Troubleshooting Guide

Before proceeding with these trouble checks, first check these basic points:

- The power cord is firmly connected.
- Amplifier connections are firmly made.
- Heads, capstans and pinch rollers are clean.
- The amplifier controls and switches are set correctly.

Function buttons and tape transport problems

Symptom	Cause	Remedy
Function buttons do not activate.	Cassette holder is not fully closed.	Close the holder completely.
● button does not activate.	No cassette in the holder.	Insert a cassette.
	Tab has been removed from the cassette.	Cover the hole with plastic tape.
	Tape is slack.	Take up the tape slack.
Automatic shut-off mechanism activates before the tape comes to its end.	Cassette shell is deformed.	Use another cassette.
	The inside of the cassette holder is illuminated by strong light.	Remove the light source.
	Excessively loud tape transport noise during fast winding	This depends on the cassette used and is not a problem.

Recording and playback problems

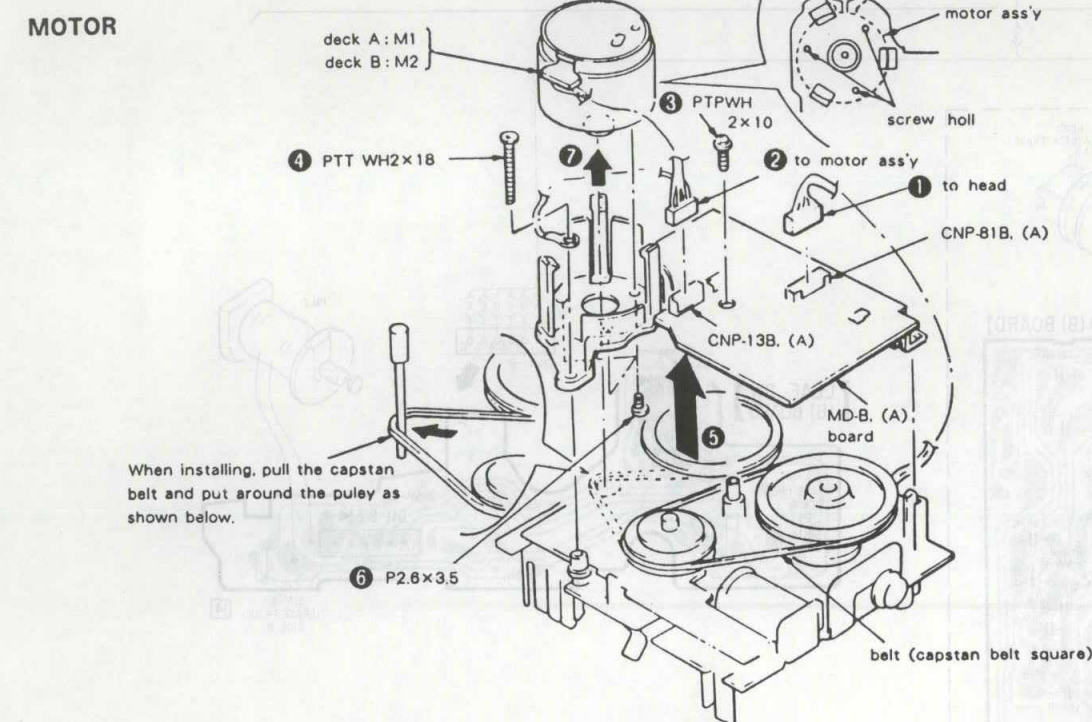
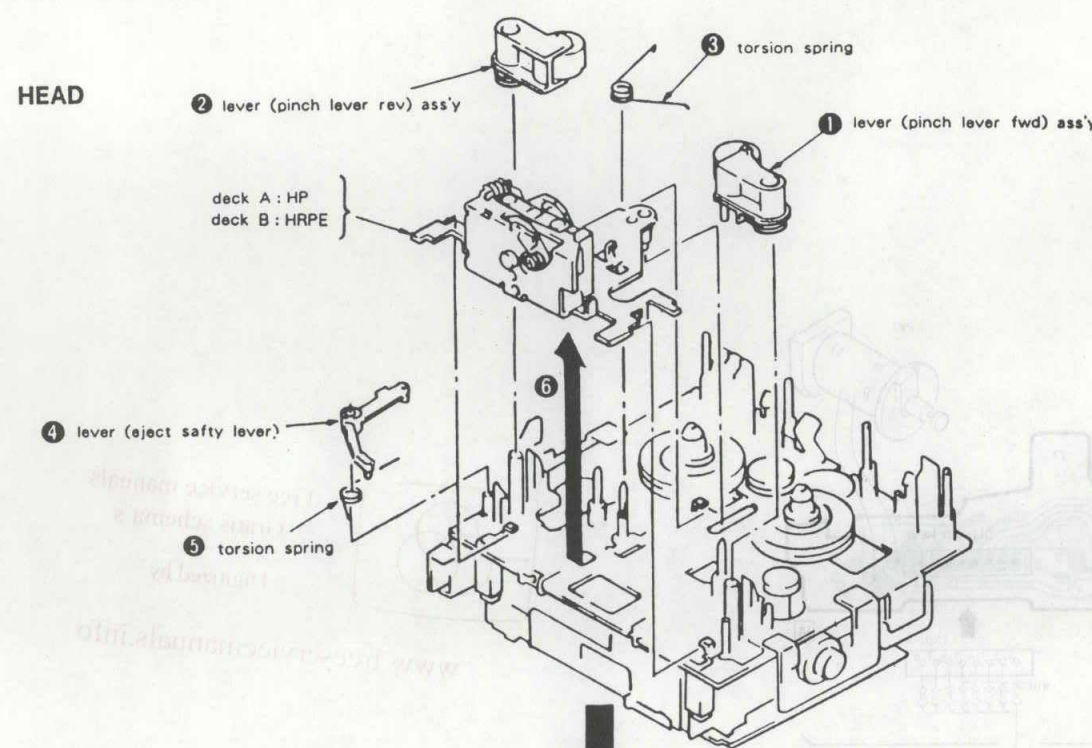
Symptom	Cause	Remedy
Auto reverse function does not operate.	DIR MODE selector is set to	Set DIR MODE to
Recording or playback cannot be made or there is a decrease in sound level.	Record/playback and erase heads are either dirty or magnetized.	Clean or demagnetize the heads.
	Improper connection	Make connections properly.
	Improper setting of the amplifier controls	Set the amplifier controls to the appropriate positions.
Excessive wow, flutter or dropout	Head, capstan or pinch roller is dirty.	Clean.
Incomplete erasure	Erase head is dirty.	Clean the erase head.
Increased noise or poor reproduction in high frequencies	Head is magnetized.	Demagnetize the head.
Unbalanced tone in high frequencies	Improper setting of the DOLBY NR switch.	When playing back, set the switch to the same position used in recording.
	Improper setting of the TAPE selector.	If recorded with the wrong switch setting, adjust the tone controls of the amplifier in playback.
	The unit is placed near a television set.	Move the unit away from the television set.
The desired selection cannot be located even if you activate the AMS.	• There is noise in the space between selections.	—
	• The space is less than 4 seconds long.	Press to insert a longer blank space.
	• The or button is pressed immediately before or after the beginning of the following selection.	—
Playback or fast winding may begin in the middle of the selection when AMS or blank skip is activated.	• The following will be treated as blanks: — a long pause in the music — a passage of low frequencies or very low volume — gradual increase or decrease in volume	—

Noise

Symptom	Cause	Remedy
Hum noise	The unit is stacked on or under the amplifier.	Separate the units.
Noise is recorded.	Recording was made near equipment such as a television set or a color monitor, and interference has affected the recording on the tape and the Dolby NR system.	Move the unit away from television set or color monitor.

SECTION 2 DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

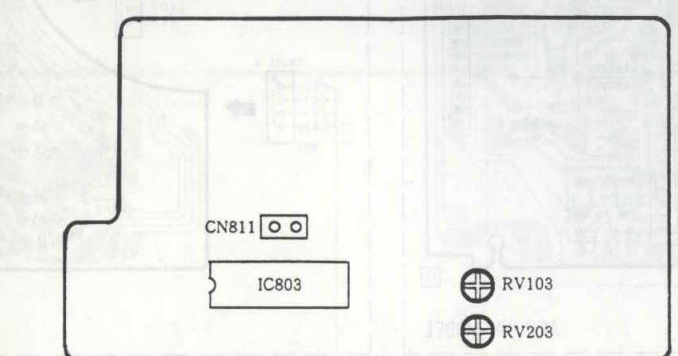
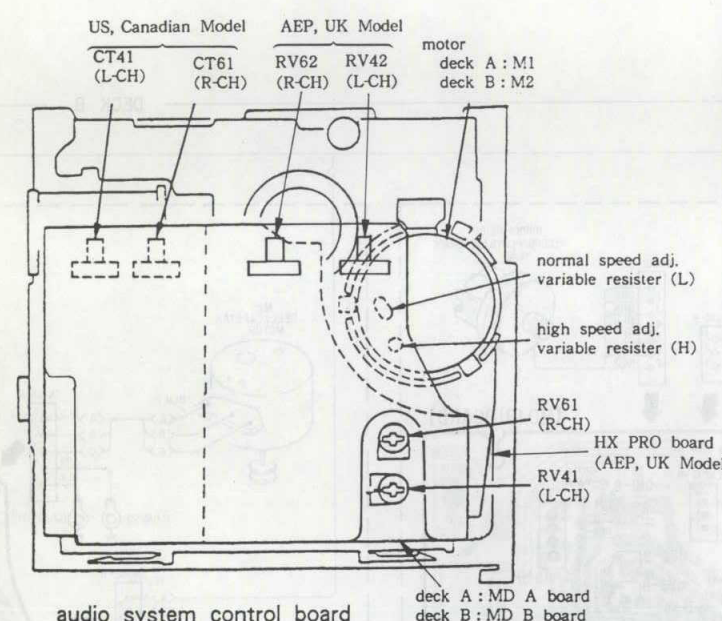
PRECAUTION

- 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.

Torque Measurement

Torque	Torque Meter	Meter Reading
FWD	CQ-102C	27 to 75g·cm (0.378 to 1.05 oz·inch)
FWD Back tension	CQ-102C	1 to 10g·cm (0.014 to 0.14 oz·inch)
REV	CQ-102RC	27 to 75g·cm (0.378 to 1.05 oz·inch)
REV Back Tension	CQ-102RC	1 to 10g·cm (0.014 to 0.14 oz·inch)
FF, REW	CQ-201B	95 to 165g·cm (1.33 to 2.31 oz·inch)

-Adjustment Parts Location Diagrams-

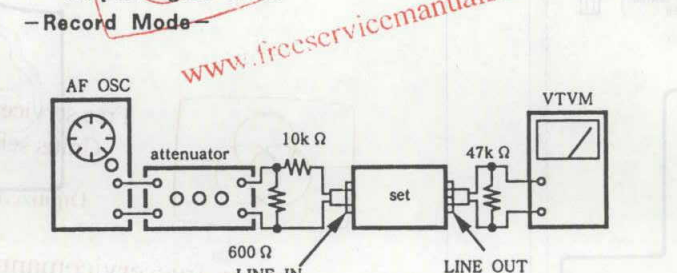


3-2. ELECTRICAL ADJUSTMENTS

Note :The adjustment should be performed in the order given in the service manual.
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
TAPE SELECT switch : TYPE I
DIRECTION MODE switch

- 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

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

Standard Output Level

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

• Test tape

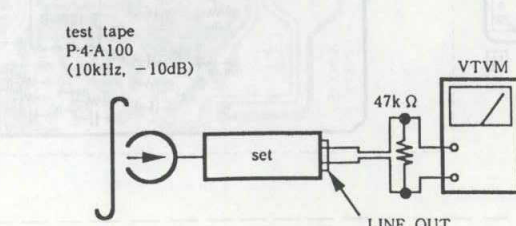
Type	Signal	Used for
P-4-A100	10kHz, -10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB LEVEL Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

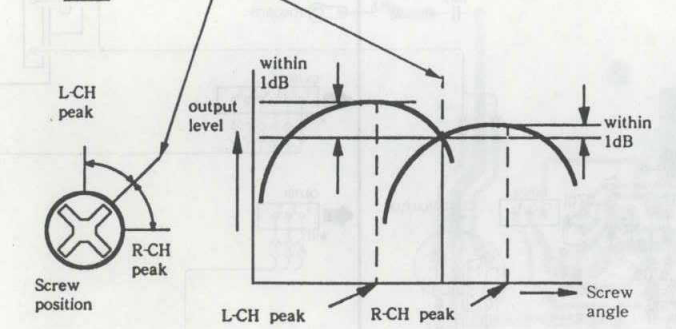
DECK A DECK B

Procedure :

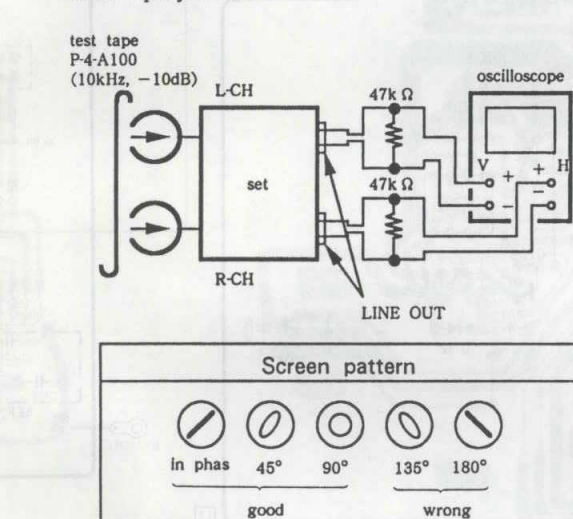
- Mode : FWD playback



- 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.

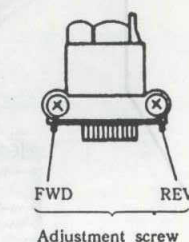


- Phase Check
Mode : playback



- Set in the REV mode and repeat the step 1-3.
- After the adjustment, lock the screws with locking compound.

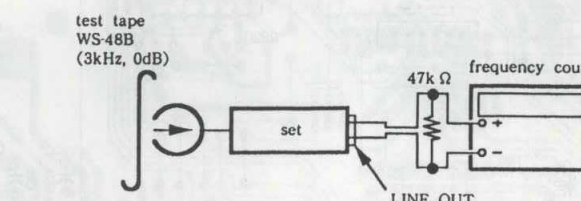
Adjustment Location : Record/Playback head



Tape Speed Adjustment DECK A DECK B

Procedure :

Mode : FWD playback



Perform high speed adjustment before normal speed adjustment.
Play back the test tape WS-48B and adjust to meet the specifications below.

Specifications :

speed	deck	Adjustment part	variable resistor of motor	test pin CN811	frequency counter reading
high	A	M1	(H)	short	5,960±30
	B	M2	(H)	short	5,960±30
normal	A	M1	(L)	open	2,980±15
	B	M2	(L)	open	2,980±15

Frequency difference between the beginning and the end of the tape should be within 3%.
Frequency difference between deck A and deck B the beginning of the tape should be within 1.5%.

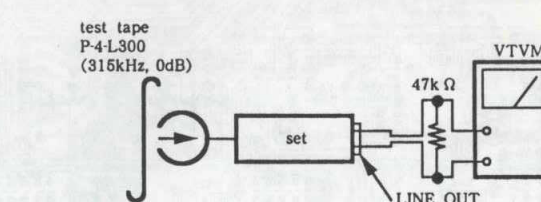
Adjustment Location :

- deck A : motor (M1) rear side
- deck B : motor (M2) rear side

Playback Level Adjustment DECK A DECK B

Procedure :

Mode : playback



Adjust deck A : RV41A(L-CH), RV61A(R-CH) and deck B : RV41B(L-CH), RV61B(R-CH) so that the reading on VTVM meets the specification below.

Specification :

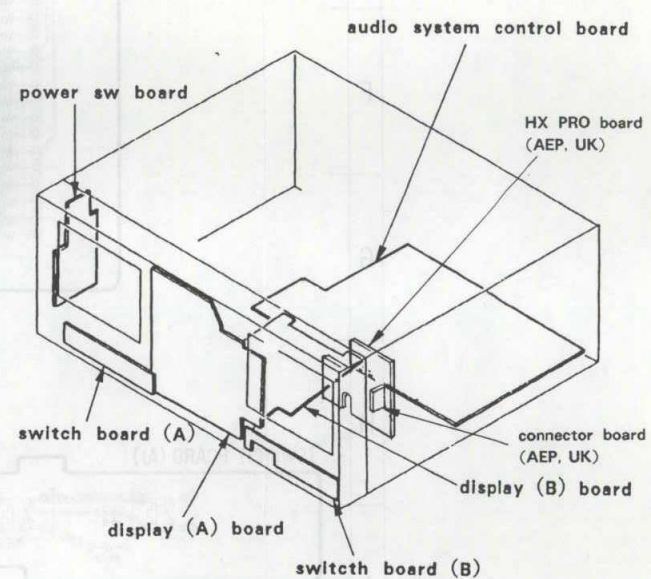
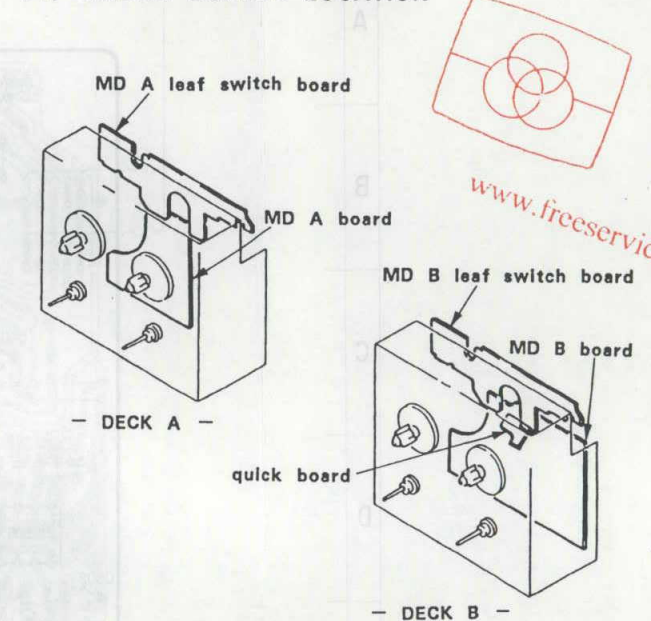
LINE OUT level : -5±0.8dB
Level difference between channels : less than 0.5dB
Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : audio system control board

SECTION 4 DIAGRAMS

SEMICONDUCTOR LEAD LAYOUT

4-1. CIRCUIT BOARDS LOCATION



DTA114ES DTA144ES DTC124XS DTC144ES	HZS6A1L HZS7A1L
GP2S09-B	SEL1210S SEL1410E
BA1L4M 2SC2785	SEL4214S SEL4414ED
2SB1014	SLP3070 SLP4070 SLP9070
2SB1187 2SD1761-E	US1060M 1S132 10E2N
2SA733 2SC2001 2SD1387	GL-5HY41

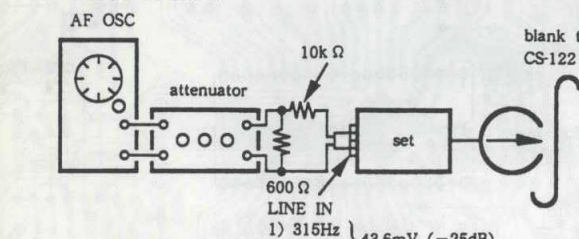
Record Bias Adjustment DECK B

Setting :

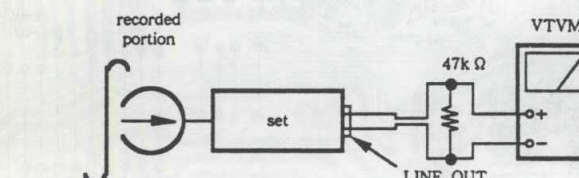
REC LEVEL control : standard record (See page 6.)

Procedure :

- Mode : record
AF OSC



- Mode : playback



Confirm that the 10kHz playback output is 0±0.5dB relative to the 315Hz output. If necessary, adjust CT41 (L-CH), CT61 (R-CH) (US, Canadian model), and RV42 (L-CH), RV62 (R-CH) (AEP, UK model) and repeat the steps given above.

Adjustment Location : MD B board (US, Canadian model)
HX PRO board (AEP, UK model)

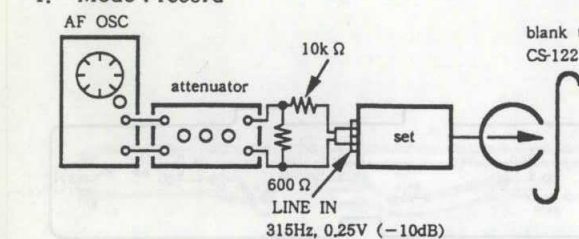
Record Level Adjustment DECK B

Setting :

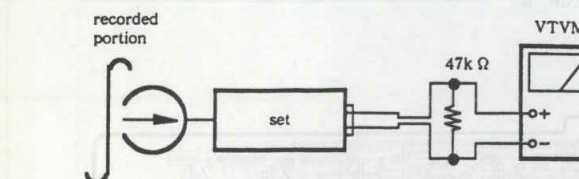
REC LEVEL control : standard record (See page 6.)

Procedure :

- Mode : record
AF OSC



- Mode : playback



- Play back the signal recorded in step 1.
Confirm that the signal level is within the specification below. If necessary, adjust RV103(L-CH), RV203 (R-CH) and repeat the step1-3.

Specification : LINE OUT level : -5dB±0.5dB

Adjustment Location : audio system control board

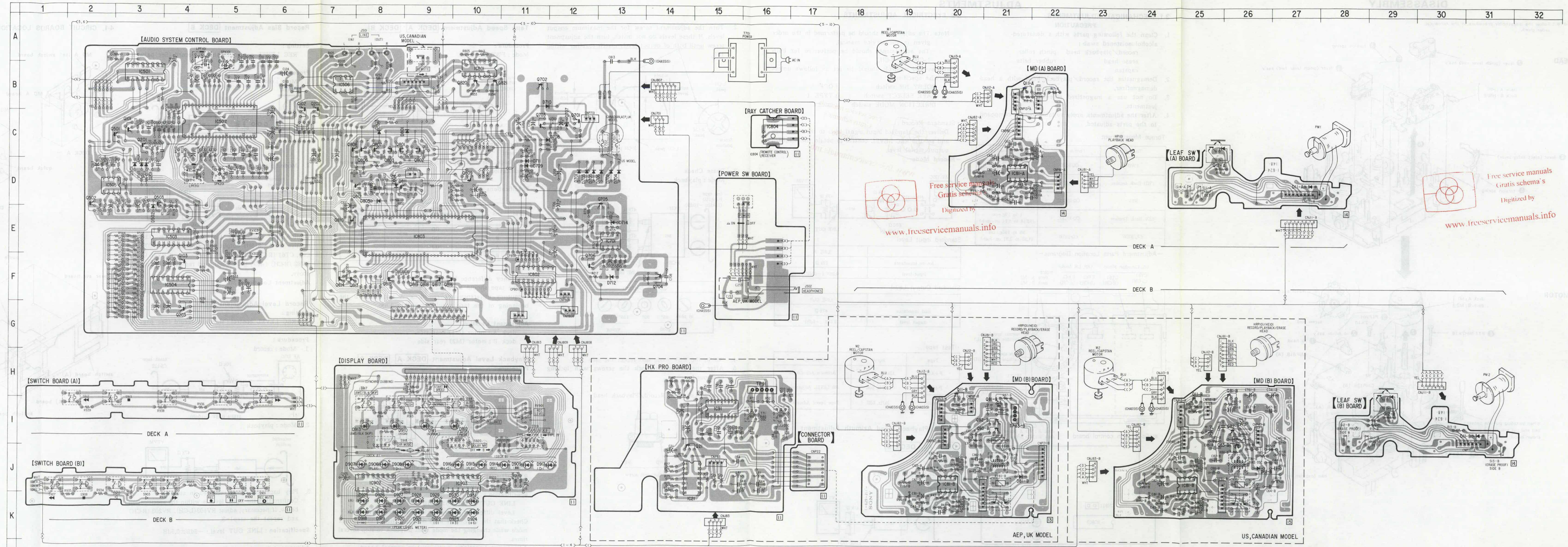
4-2. PRINTED WIRING BOARDS • See pages 8 and 9 for Circuit Boards Location and Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D11A	D-27	Q11A	B-21
D11B	I-31	Q11B	H-20
D81B	J-21	Q11B	H-25
D81B	J-26	Q12A	C-25
D101	D-3	Q12B	I-29
D201	D-3	Q21	J-14
D501	D-3	Q81B	I-21
D502	E-3	Q81B	H-26
D701	D-12	Q82B	I-21
D702	D-13	Q82B	I-26
D703	D-12	Q83B	I-21
D704	D-11	Q83B	A-26
D705	D-12	Q101	C-3
D706	D-13	Q102	C-6
D707	C-12	Q103	F-4
D708	C-12	Q201	C-3
D709	D-11	Q202	C-7
D710	B-11	Q203	G-4
D711	D-11	Q501	C-3
D712	F-13	Q502	E-2
D714	E-13	Q503	E-3
D801	C-9	Q701	C-12
D803	C-8	Q702	B-11
D804	D-8	Q703	C-11
D805	D-8	Q704	F-14
D906	J-8	Q705	E-13
D907	J-8	Q706	F-12
D908	J-9	Q801	C-8
D909	J-11	Q802	C-9
D910	I-8	Q803	C-8
D911	I-9	Q806	C-8
D912	I-10	Q807	C-8
D913	I-8	Q808	C-8
D914	J-11	Q809	D-10
D915	J-10	Q810	E-7
D916	J-10	Q811	D-8
D917	J-12	Q812	D-8
D918	K-8	Q813	F-7
D919	K-8	Q814	F-7
D920	K-8	Q815	F-8
D921	K-9	Q816	F-9
D922	K-9	Q817	F-9
D923	K-10	Q818	F-9
D924	K-10	Q819	F-9
D925	K-8	Q820	B-10
D926	K-8	Q821	B-10
D927	K-8		
D928	K-9		
D929	K-9		
D930	K-10		
D931	K-10		
IC21	J-14		
IC81A	D-21		
IC81B	I-20		
IC81B	A-25		
IC91	I-15		
IC501	B-3		
IC502	C-5		
IC503	F-4		
IC504	D-2		
IC505	D-2		
IC506	B-7		
IC701	E-13		
IC801	B-10		
IC802	F-11		
IC803	E-9		
IC804	C-16		
IC902	J-8		
IC903	J-10		

Note: • AEP, UK model
▲: US, Canadian model

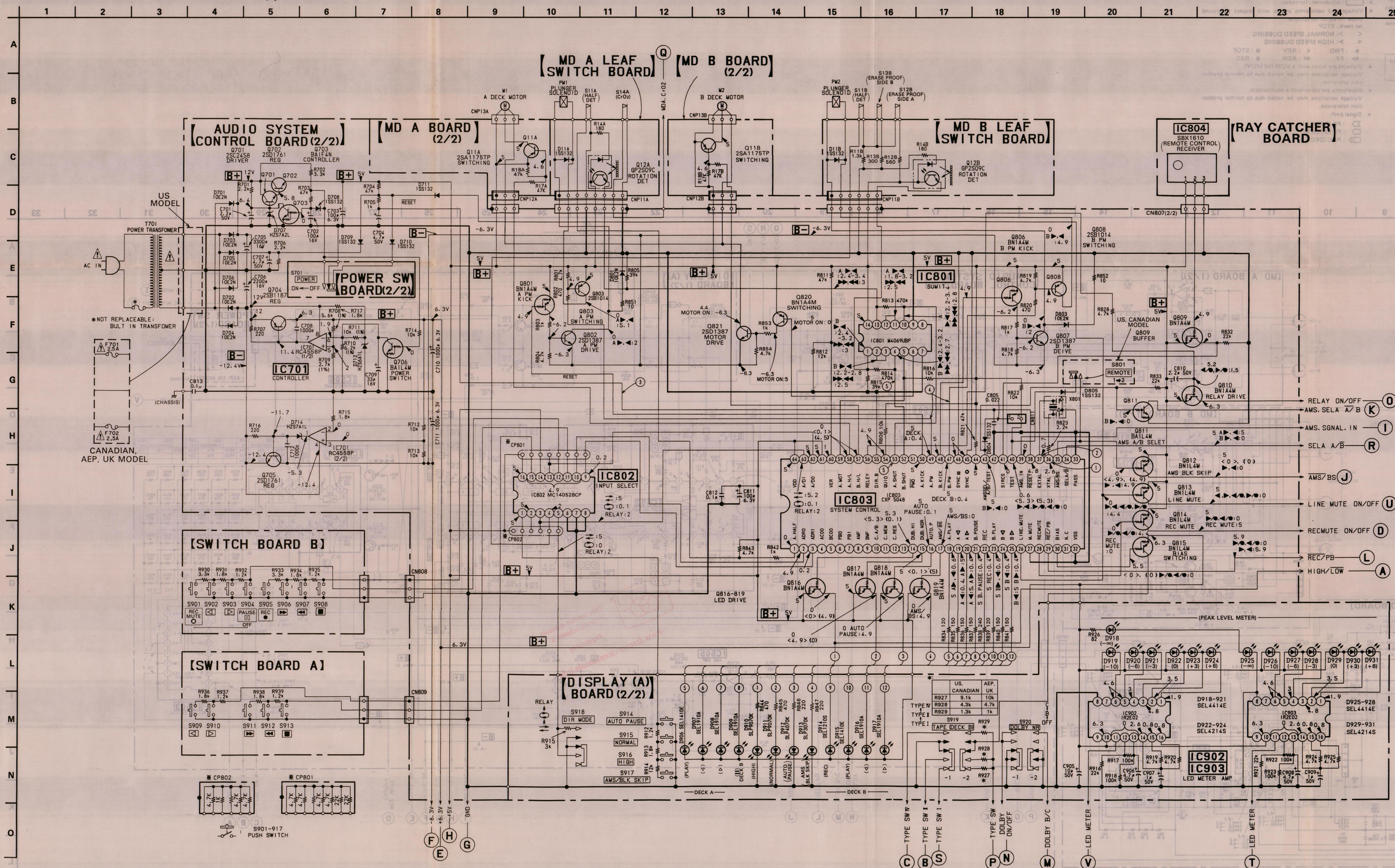
Note:
• : parts extracted from the component side.
• : parts extracted from the conductor side.
• : parts mounted on the conductor side.
• : indicates side identified with part number.



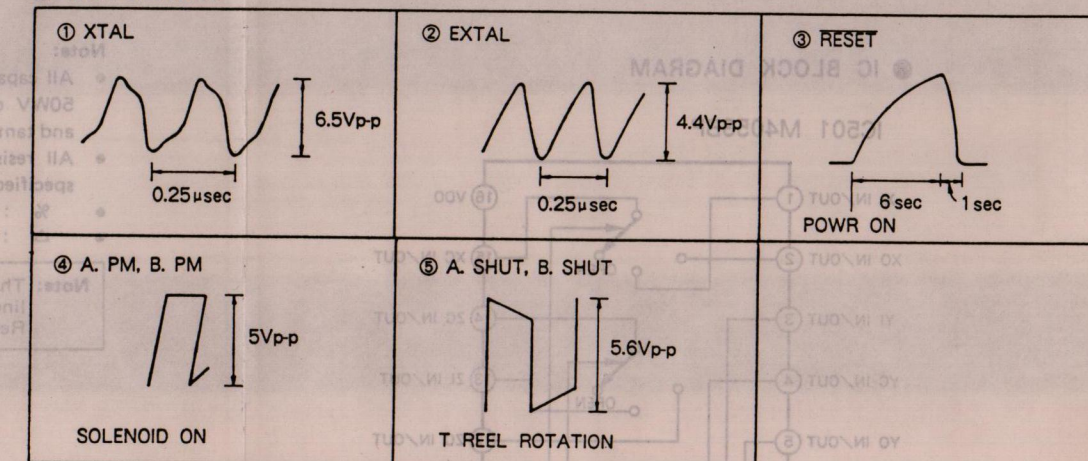
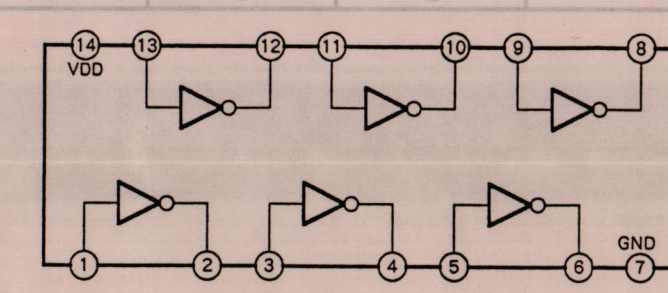
Free service manuals
Gratis schema's
Digitized by
www.freeservicemanuals.info

Free service manuals
Gratis schema's
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www.freeservicemanuals.info

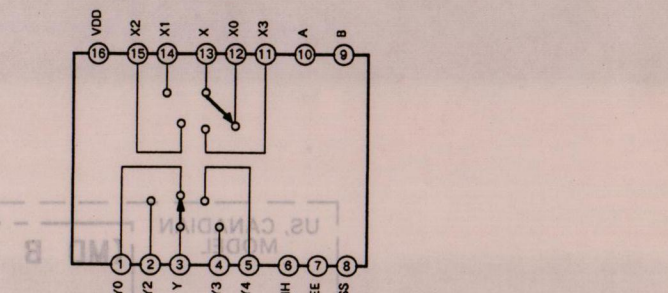
4-3. SYSTEM CONTROL SECTION SCHEMATIC DIAGRAM • See page 21 for notes.



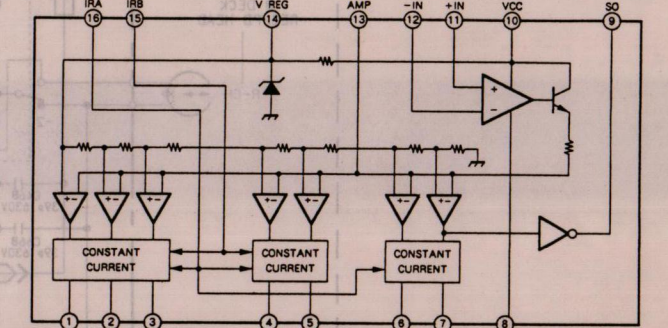
● WAVEFORMS

● IC BLOCK DIAGRAM
IC801 M4069UBP

IC802 M4052BP

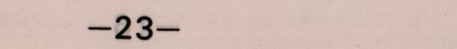
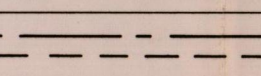


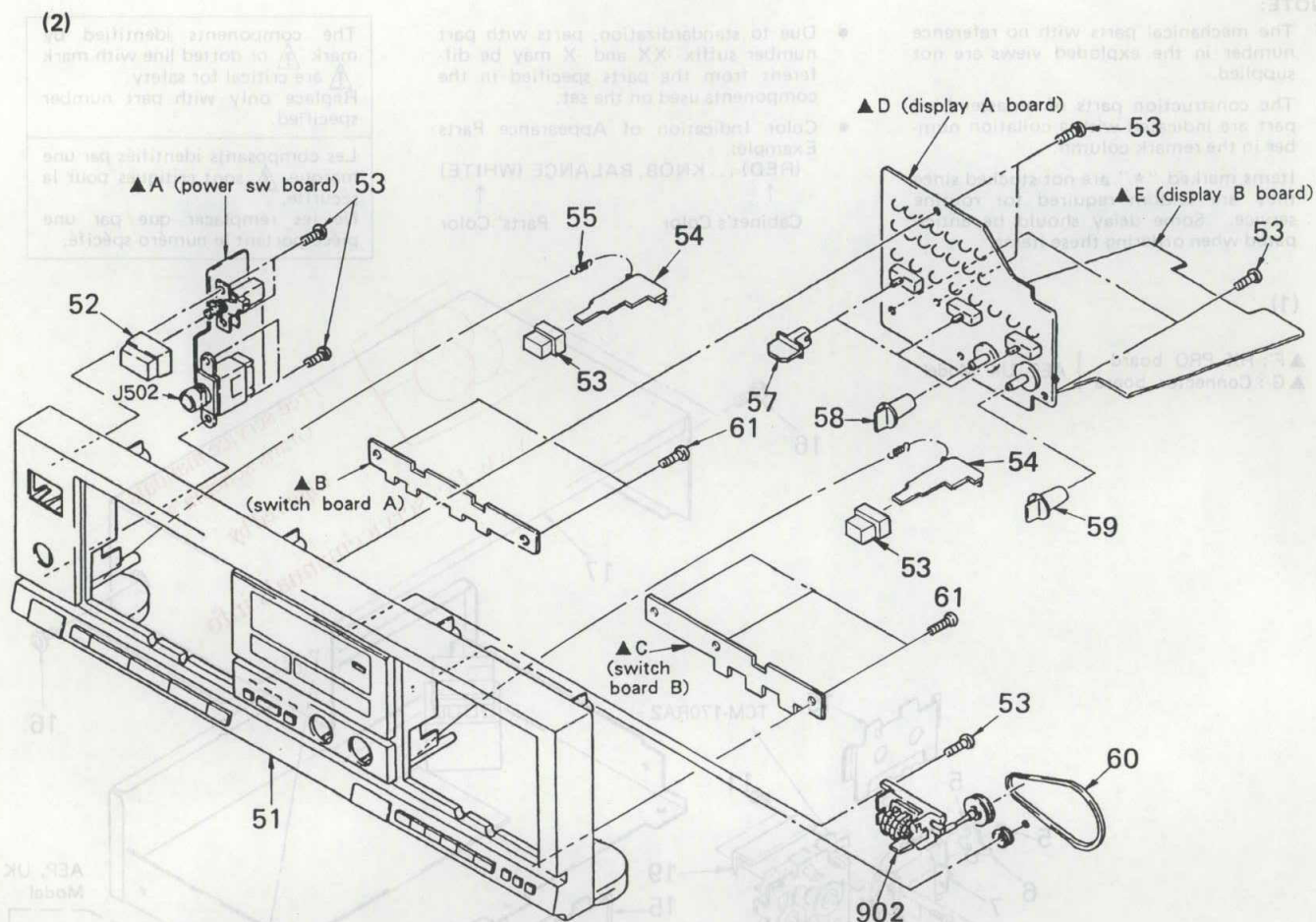
IC902, 903 IR2E02



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-30-



SECTION 5
EXPLODED VIEWS

No.	Part No.	Description	Remarks
51	X-3340-157-1 X-3340-166-1	(US,Canadian)...PANEL ASSY, FRONT (AEP,UK).....PANEL ASSY, FRONT	
52	4-917-460-01	KNOB, POWER	
53	3-343-698-21	BUTTON (EJECT)	
54	*3-349-070-01	SLIDER (EJECT)	
55	3-662-752-21	SPRING, TENSION	
56	7-682-548-04	SCREW +BVTT 3X8 (S)	
57	3-346-379-21	KNOB (SLIDE)	

No.	Part No.	Description	Remarks
58	3-346-380-11	KNOB (VOL)	
59	3-346-380-21	KNOB (VOL)	
60	3-333-457-01	BELT (DIA.47.4)	
61	7-685-533-19	SCREW +BTP 2.6X6	
902	1-548-596-11	COUNTER, TAPE (MIDDLE TYPE)	
J502	1-507-796-71	JACK (HEADPHONES)	

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

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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

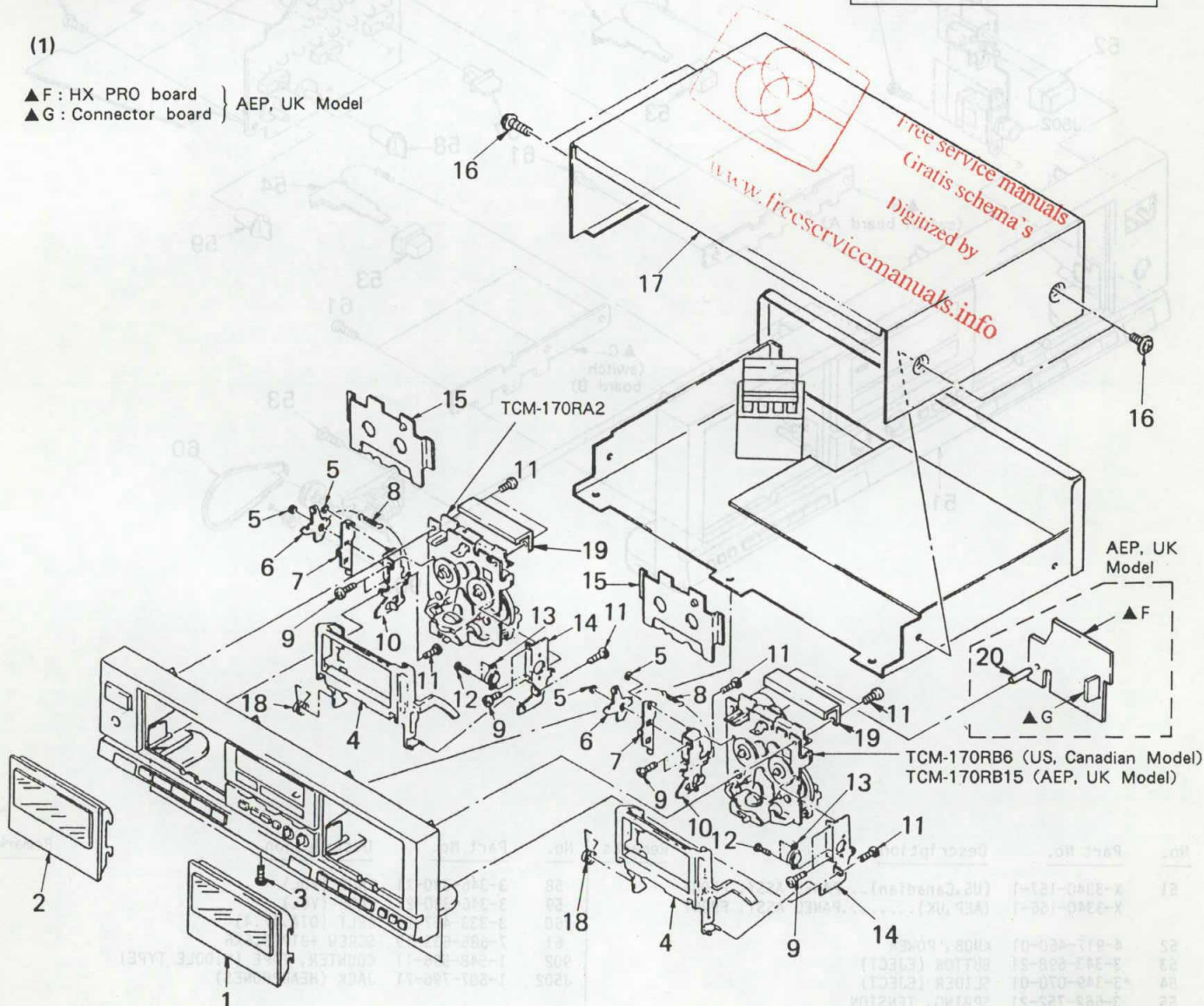
↑
Parts' Color

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

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1)

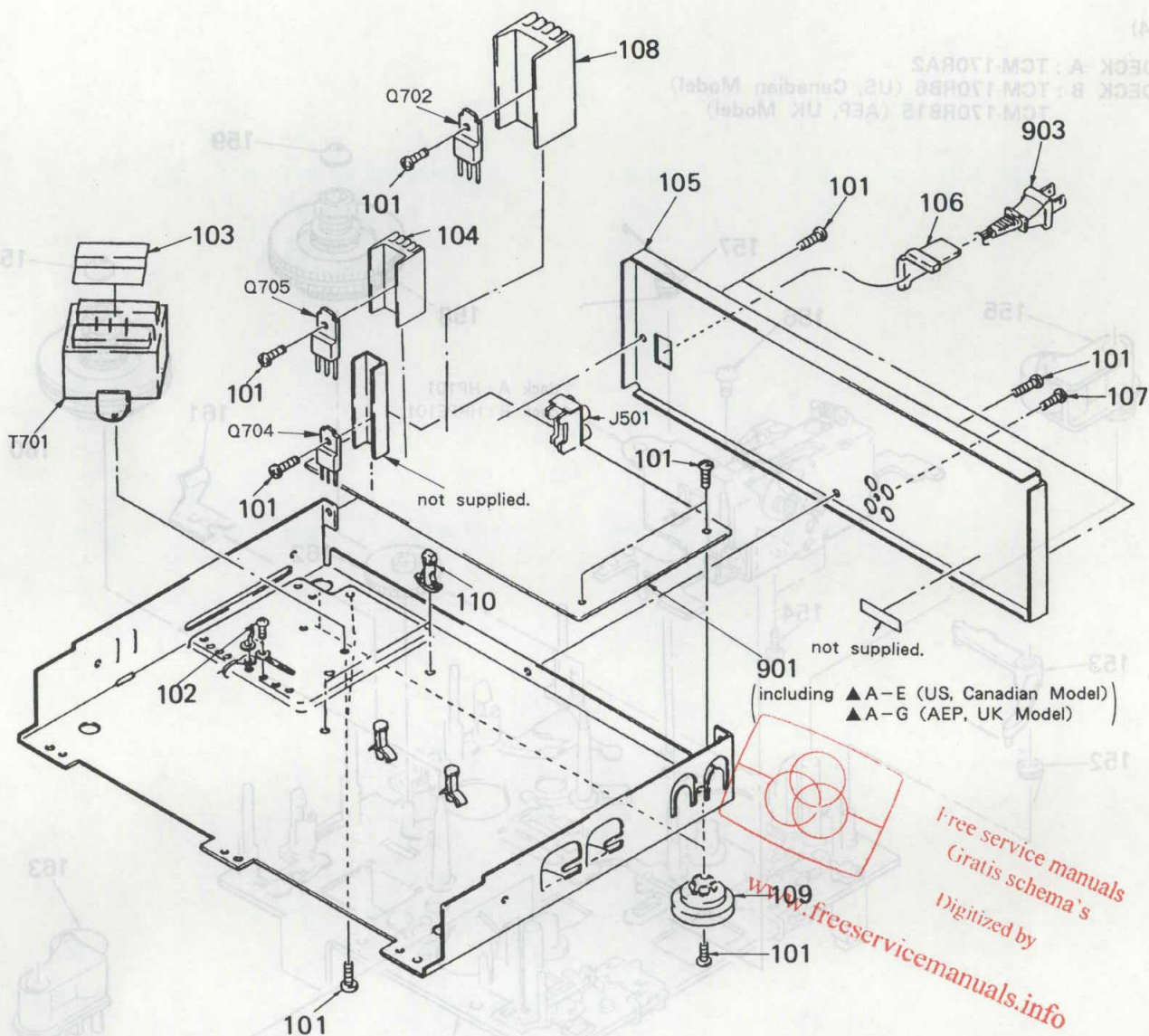
▲ F : HX PRO board } AEP, UK Model
▲ G : Connector board }



No.	Part No.	Description	Remarks
1	X-3340-156-1	(US,Canadian)...LID (B) ASSY, CASSETTE	
	X-3340-164-1	(AEP,UK).....LID (B) ASSY, CASSETTE	
2	X-3340-155-1	LID (A) ASSY, CASSETTE	
3	7-682-548-04	SCREW +BVTT 3X8 (S)	
4	X-3332-482-1	HOLDER ASSY, CASSETTE	
5	3-558-708-21	WASHER, STOPPER	
6	*3-343-449-01	LEVER (LOCK LEVER)	
7	*3-346-306-01	LEVER (EJECT)	
8	3-312-432-00	SPRING, TENSION	
9	7-621-770-87	SCREW +BVTT 2.6X5 (S)	

No.	Part No.	Description	Remarks
10	*X-3332-487-1	BRACKET ASSY (B)	
11	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
12	7-621-255-15	SCREW +PTT 2X3 (S)	
13	3-319-224-31	DAMPER, SMALL	
14	*3-346-305-01	BRACKET (DAMPER)	
15	*3-340-123-01	RETAINER, CASSETTE	
16	3-704-366-01	SCREW (CASE) (M3X8)	
17	3-332-578-71	CASE	
18	3-346-336-01	SPRING, TORSION	
19	*3-349-049-01	BRACKET (M)	
20	*3-682-419-21	(AEP,UK)...PCB HOLDER	

5-3.



No.	Part No.	Description	Remarks
101	7-682-548-04	SCREW +BVTT 3X8 (S)	
102	7-682-547-04	SCREW +BVTT 3X6 (S)	
103	*3-337-136-01	COVER, TRANSFORMER SAFETY	
104	*4-363-146-21	HEAT SINK, V.OUT	
105	*3-349-050-21	(AEP).....PANEL, BACK	
	*3-349-050-31	(UK).....PANEL, BACK	
	*3-349-050-41	(US,Canadian)...PANEL, BACK	
106	*3-703-244-00	(AEP,UK).....BUSHING (2104), CORD	
	3-703-571-00	(US,Canadian)...BUSHING (S)(4516), CORD	
107	7-621-849-00	SCREW, TAPPING	
108	*4-363-147-00	HEAT SINK, H.PIN	

No.	Part No.	Description	Remarks
109	X-4885-935-1	(AEP,UK).....FOOT ASSY	
	X-4911-201-1	(US,Canadian)...FOOT ASSY	
110	*3-346-265-11	HOLDER, PC BOARD	
111	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
901	*A-2006-091-A	(US).....MOUNTED PCB, SYSTEM CONTROL	
	*A-2006-092-A	(Canadian)...MOUNTED PCB, SYSTEM CONTROL	
	*A-2056-446-A	(AEP,UK).....MOUNTED PCB, SYSTEM CONTROL	
903	▲.1-551-506-XX	(US,Canadian)...CORD, POWER	
	▲.1-551-884-21	(UK).....CORD, POWER	
	▲.1-555-795-00	(AEP).....CORD, POWER, EURO PLUG	
J501	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)	
T701	▲.1-449-420-11	(US,Canadian)...TRANSFORMER, POWER	
T701	▲.1-449-661-11	(AEP,UK).....TRANSFORMER, POWER	

Note:

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

Note:

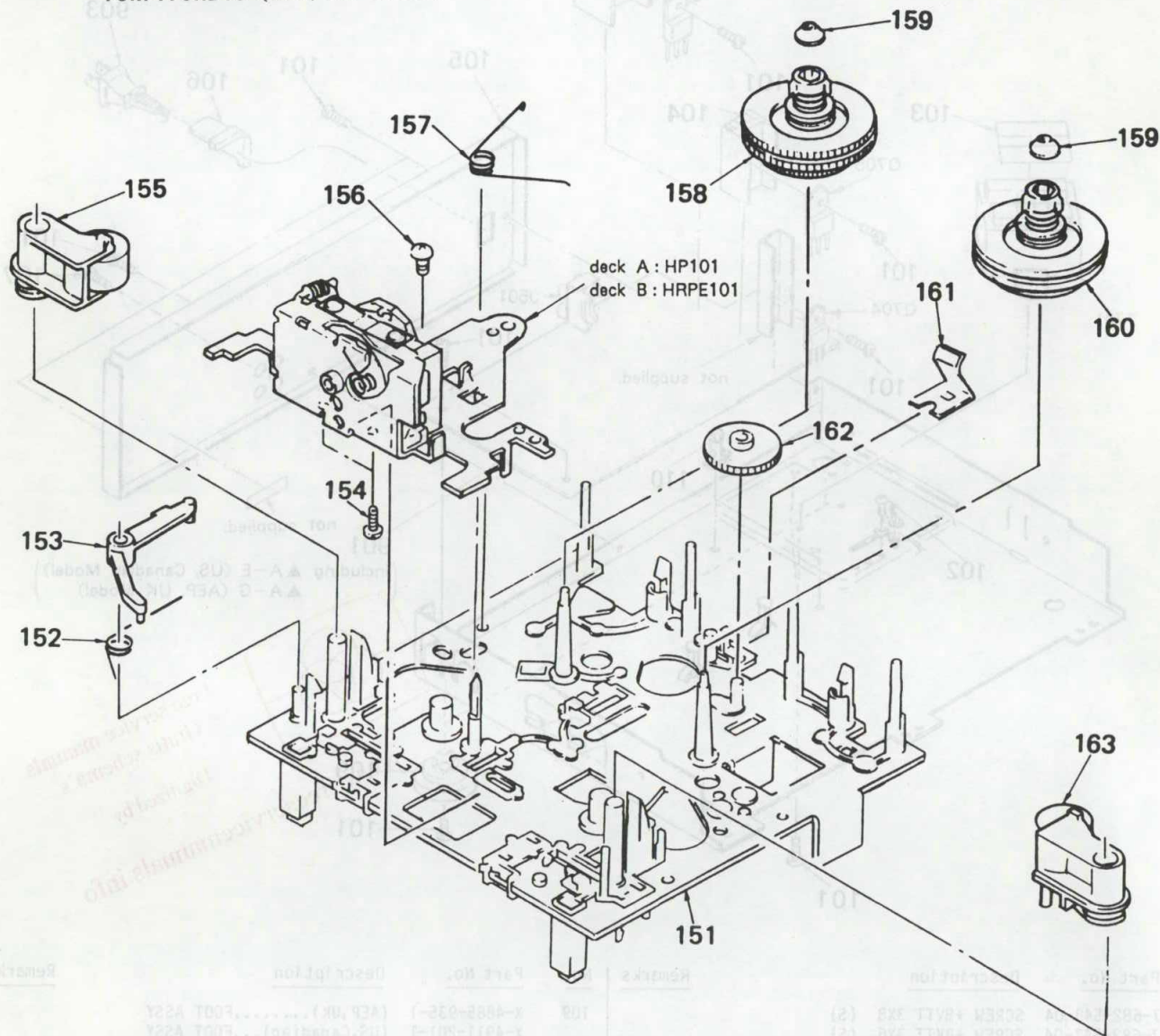
Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(4)

DECK A : TCM-170RA2

DECK B : TCM-170RB6 (US, Canadian Model)

TCM-170RB15 (AEP, UK Model)



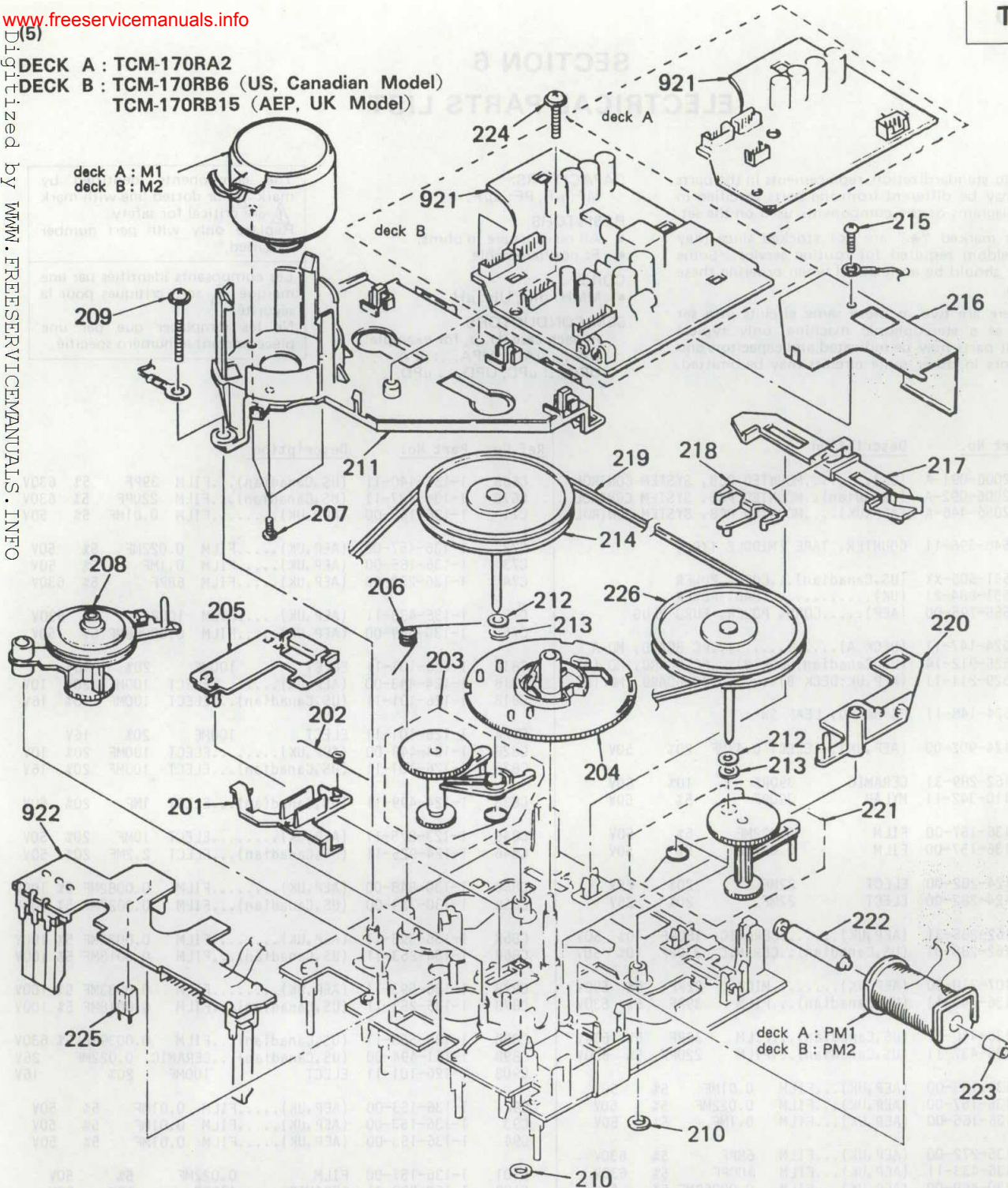
No.	Part No.	Description	Remarks
151	*X-3343-418-1	CHASSIS ASSY, MECHANICAL	
152	3-343-477-01	SPRING, TORSION (EJECT SAFETY)	
153	*3-343-476-01	LEVER (EJECT SAFETY LEVER)	
154	7-685-102-19	SCREW +P 2X4 NON-SLIT TYPE 2	
155	X-3343-403-1	LEVER (PINCH LEVER REV) ASSY	
157	3-343-401-01	SPRING, TORSION	
158	X-3343-415-1	TABEL (REV) ASSY, REEL	

No.	Part No.	Description	Remarks
159	3-343-439-01	CAP (REEL TABLE)	
160	X-3343-401-1	TABEL ASSY, REEL	
161	3-343-420-01	SPRING, LEAF	
162	3-343-411-01	GEAR (FF GEAR)	
163	X-3343-402-1	LEVER (PINCH LEVER FWD) ASSY	
HP101	A-2108-129-A	(DECK A)...CHASSIS ASSY, HEAD	
HRPE101	A-2108-130-A	(DECK B)...CHASSIS ASSY, HEAD	

DECK A : TCM-170RA2

DECK B : TCM-170RB6 (US, Canadian Model)

TCM-170RB15 (AEP, UK Model)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	3-343-453-01	SLIDER (BRAKE PLATE)		218	3-343-462-01	LEVER	
202	3-343-429-01	SPRING, TORSION		219	3-343-426-02	BELT (CAPSTAN BELT SQUARE)	
203	X-3343-406-1	LEVER (TU ARM REV) ASSY		220	3-343-493-01	LEVER (PM LEVER)	
204	3-343-470-01	GEAR (CAM GEAR)		221	X-3343-405-1	LEVER (TU ARM FWD) ASSY	
205	*3-343-461-01	SLIDER		222	*3-343-425-01	ARBOR(MOVABLE IRON ARBOR),IRON	
206	3-343-430-01	SPRING, TORSION		223	*3-343-424-01	ARBOR (FIXED IRON ARBOR), IRON	
207	7-627-556-28	SCREW +P 2.6X3.5		224	3-343-404-01	SCREW (PTPWH 2X10)	
208	X-3343-414-1	LAVER (FR ARM) ASSY		225	*3-343-419-01	HOLDER (S SENSER A)	
209	3-343-403-01	SCREW (PTTWH 2X18)		226	X-3343-431-1	FLYWHEEL (REV) COMPLETE ASSY	
210	3-343-473-01	WASHER, NYLON		921	*1-624-147-11	(DECK A).....PC BOARD, MD-A	
211	*X-3343-407-1	BASE (THRUST RETAINER) ASSY			*1-625-912-14	(US,Canadian:DECK B)...PC BOARD, MD (B)	
212	4-605-835-11	WASHER (2.6), POLYSLIDER			*1-629-211-11	(AEP,UK:DECK B).....PC BOARD, MD (B)	
213	3-307-482-00	WASHER, LUMILER		922	*1-624-148-11	PC BOARD, LEAF SW	
214	X-3343-429-1	FLYWHEEL COMPLETE ASSY		M1	X-3343-408-1	(DECK A)...MOTOR ASSY	
215	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT		M2	X-3343-408-1	(DECK B)...MOTOR ASSY	
216	3-343-480-01	PLATE, SHIELD		PM1	1-454-456-11	(DECK A)...SOLENOID, PLUNGER	
217	*3-343-457-01	SLIDER (REVERSE SLIDER)		PM2	1-454-456-11	(DECK B)...SOLENOID, PLUNGER	

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 MF.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:

UA....: μ A..., UPA....: μ PA...,
UPC....: μ PC, UPD....: μ PD...

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

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*A-2006-091-A	(US).....MOUNTED PCB, SYSTEM CONTROL	C66B	1-136-440-11	(US,Canadian)...FILM 39PF 5% 630V
	*A-2006-092-A	(Canadian)..MOUNTED PCB, SYSTEM CONTROL	C67B	1-136-437-11	(US,Canadian)...FILM 220PF 5% 630V
	*A-2056-446-A	(AEP,UK)....MOUNTED PCB, SYSTEM CONTROL	C71	1-136-153-00	(AEP,UK).....FILM 0.01MF 5% 50V
902	1-548-596-11	COUNTER, TAPE (MIDDLE TYPE)	C72	1-136-157-00	(AEP,UK)....FILM 0.022MF 5% 50V
903	Δ .1-551-506-XX	(US,Canadian)...CORD, POWER	C73	1-136-165-00	(AEP,UK)....FILM 0.1MF 5% 50V
	Δ .1-551-884-21	(UK).....CORD, POWER	C74	1-136-272-00	(AEP,UK)....FILM 68PF 5% 630V
	Δ .1-555-795-00	(AEP).....CORD, POWER, EURO PLUG	C75	1-136-433-11	(AEP,UK)....FILM 100PF 5% 630V
921	*1-624-147-11	(DECK A).....PC BOARD, MD-A	C76	1-130-469-00	(AEP,UK)....FILM 0.00068MF 5% 50V
	*1-625-912-14	(US,Canadian:DECK B)...PC BOARD, MD (B)	C81A	1-126-101-11	ELECT 100MF 20% 16V
	*1-629-211-11	(AEP,UK:DECK B).....PC BOARD, MD (B)	C81B	1-124-443-00	(AEP,UK).....ELECT 100MF 20% 10V
922	*1-624-148-11	PC BOARD, LEAF SW	C81B	1-126-101-11	(US,Canadian)...ELECT 100MF 20% 16V
C21	1-124-902-00	(AEP,UK)...ELECT 0.47MF 20% 50V	C82A	1-126-101-11	ELECT 100MF 20% 16V
C41A	1-162-289-31	CERAMIC 390PF 10% 50V	C82B	1-124-443-00	(AEP,UK).....ELECT 100MF 20% 10V
C41B	1-110-342-11	MYLAR 390PF 5% 50V	C82B	1-126-101-11	(US,Canadian)...ELECT 100MF 20% 16V
C42A	1-136-157-00	FILM 0.022MF 5% 50V	C83B	1-124-499-11	(US,Canadian)...ELECT 1MF 20% 50V
C42B	1-136-157-00	FILM 0.022MF 5% 50V	C84B	1-123-875-11	(AEP,UK).....ELECT 10MF 20% 50V
C43A	1-124-282-00	ELECT 22MF 20% 25V	C84B	1-124-925-11	(US,Canadian)...ELECT 2.2MF 20% 50V
C43B	1-124-282-00	ELECT 22MF 20% 25V	C85B	1-130-848-00	(AEP,UK).....FILM 0.0082MF 5% 100V
C44	1-162-285-31	(AEP,UK).....CERAMIC 180PF 10% 50V	C85B	1-130-729-00	(US,Canadian)...FILM 0.0027MF 5% 100V
C44B	1-162-288-31	(US,Canadian)..CERAMIC 330PF 10% 50V	C86B	1-136-593-11	(AEP,UK).....FILM 0.0033MF 5% 100V
C45	1-107-210-00	(AEP,UK).....MICA 22PF 5% 500V	C86B	1-136-253-11	(US,Canadian)...FILM 0.0018MF 5% 100V
C45B	1-136-440-11	(US,Canadian)...FILM 39PF 5% 630V	C87B	1-136-593-11	(AEP,UK).....FILM 0.0033MF 5% 100V
C46B	1-136-440-11	(US,Canadian)...FILM 39PF 5% 630V	C87B	1-136-253-11	(US,Canadian)...FILM 0.0018MF 5% 100V
C47B	1-136-437-11	(US,Canadian)...FILM 220PF 5% 630V	C88B	1-136-558-11	(US,Canadian)...FILM 0.0039MF 5% 630V
C51	1-136-153-00	(AEP,UK)...FILM 0.01MF 5% 50V	C89B	1-161-494-00	(US,Canadian)...CERAMIC 0.022MF 25V
C52	1-136-157-00	(AEP,UK)...FILM 0.022MF 5% 50V	C90B	1-126-101-11	ELECT 100MF 20% 16V
C53	1-136-165-00	(AEP,UK)...FILM 0.1MF 5% 50V	C92	1-136-153-00	(AEP,UK)....FILM 0.01MF 5% 50V
C54	1-136-272-00	(AEP,UK)...FILM 68PF 5% 630V	C93	1-136-153-00	(AEP,UK)....FILM 0.01MF 5% 50V
C55	1-136-433-11	(AEP,UK)...FILM 100PF 5% 630V	C94	1-136-153-00	(AEP,UK)....FILM 0.01MF 5% 50V
C56	1-130-469-00	(AEP,UK)...FILM 0.00068MF 5% 50V	C101	1-136-157-00	FILM 0.022MF 5% 50V
C61A	1-162-289-31	CERAMIC 390PF 10% 50V	C102	1-162-290-31	CERAMIC 470PF 10% 50V
C61B	1-110-342-11	MYLAR 390PF 5% 50V	C111	1-123-875-11	ELECT 10MF 20% 50V
C62A	1-136-157-00	FILM 0.022MF 5% 50V	C112	1-123-875-11	ELECT 10MF 20% 50V
C62B	1-136-157-00	FILM 0.022MF 5% 50V	C113	1-124-273-00	ELECT 3.3MF 20% 50V
C63A	1-124-282-00	ELECT 22MF 20% 25V	C114	1-130-479-00	MYLAR 0.0047MF 5% 50V
C63B	1-124-282-00	ELECT 22MF 20% 25V	C115	1-136-155-00	FILM 0.015MF 5% 50V
C64	1-162-285-31	(AEP,UK).....CERAMIC 180PF 10% 50V	C116	1-136-173-00	FILM 0.47MF 5% 50V
C64B	1-162-288-31	(US,Canadian)..CERAMIC 330PF 10% 50V	C117	1-136-167-00	FILM 0.15MF 5% 50V
C65	1-107-210-00	(AEP,UK).....MICA 22PF 5% 500V	C118	1-136-169-00	FILM 0.22MF 5% 50V
C65B	1-136-440-11	(US,Canadian)...FILM 39PF 5% 630V	C119	1-136-163-00	FILM 0.068MF 5% 50V
			C120	1-136-161-00	FILM 0.047MF 5% 50V
			C121	1-130-481-00	MYLAR 0.0068MF 5% 50V
			C122	1-136-153-00	FILM 0.01MF 5% 50V
			C123	1-136-169-00	FILM 0.22MF 5% 50V

REF. NO. PART NO. DESCRIPTION

C124 1-124-927-11 ELECT 4.7MF 20% 50V

C151 1-123-875-11 ELECT 10MF 20% 50V

C152 1-123-382-00 ELECT 3.3MF 20% 50V

C153 1-162-296-11 (AEP,UK)...CERAMIC 0.0022MF 30% 16V

C201 1-136-157-00 FILM 0.022MF 5% 50V

C202 1-162-290-31 CERAMIC 470PF 10% 50V

C211 1-123-875-11 ELECT 10MF 20% 50V

C212 1-123-875-11 ELECT 10MF 20% 50V

C213 1-124-273-00 ELECT 3.3MF 20% 50V

C214 1-130-479-00 MYLAR 0.0047MF 5% 50V

C215 1-136-155-00 FILM 0.015MF 5% 50V

C216 1-136-173-00 FILM 0.47MF 5% 50V

C217 1-136-167-00 FILM 0.15MF 5% 50V

C218 1-136-169-00 FILM 0.22MF 5% 50V

C219 1-136-163-00 FILM 0.068MF 5% 50V

C220 1-136-161-00 FILM 0.047MF 5% 50V

C221 1-130-481-00 MYLAR 0.0068MF 5% 50V

C222 1-136-153-00 FILM 0.01MF 5% 50V

C223 1-136-169-00 FILM 0.22MF 5% 50V

C224 1-124-927-11 ELECT 4.7MF 20% 50V

C251 1-123-875-11 ELECT 10MF 20% 50V

C252 1-123-382-00 ELECT 3.3MF 20% 50V

C253 1-162-296-11 (AEP,UK)...CERAMIC 0.0022MF 30% 16V

C511 1-123-875-11 ELECT 10MF 20% 50V

C512 1-123-875-11 ELECT 10MF 20% 50V

C513 1-124-902-00 ELECT 0.47MF 20% 50V

C514 1-162-215-31 CERAMIC 47PF 5% 50V

C515 1-136-157-00 FILM 0.022MF 5% 50V

C516 1-124-925-11 ELECT 2.2MF 20% 50V

C517 1-124-925-11 ELECT 2.2MF 20% 50V

C518 1-124-927-11 ELECT 4.7MF 20% 50V

C551 1-124-499-11 ELECT 1MF 20% 50V

C552 1-126-176-11 ELECT 220MF 20% 6.3V

C553 1-126-176-11 ELECT 220MF 20% 6.3V

C554 1-124-120-11 ELECT 220MF 20% 16V

C701 1-124-925-11 ELECT 2.2MF 20% 50V

C702 1-126-101-11 ELECT 100MF 20% 16V

C703 1-124-443-00 ELECT 100MF 20% 6.3V

C704 1-124-927-11 ELECT 4.7MF 20% 50V

C705 1-124-887-00 ELECT 3300MF 20% 16V

C706 1-124-556-11 ELECT 2200MF 20% 16V

C707 1-124-927-11 ELECT 4.7MF 20% 50V

C708 1-162-294-31 CERAMIC 0.001MF 10% 50V

C709 1-124-963-11 ELECT 33MF 20% 16V

C710 1-124-471-00 ELECT 1000MF 20% 6.3V

C711 1-124-471-00 ELECT 1000MF 20% 6.3V

C712 1-162-294-31 CERAMIC 0.001MF 10% 50V

C805 1-161-494-00 CERAMIC 0.022MF 25V

C810 1-124-925-11 ELECT 2.2MF 20% 50V

C811 1-124-443-00 ELECT 100MF 20% 6.3V

C812 1-164-159-11 CERAMIC 0.1MF 50V

C813 1-164-159-11 CERAMIC 0.1MF 50V

C905 1-123-875-11 ELECT 10MF 20% 50V

C906 1-126-163-11 ELECT 4.7MF 20% 50V

C907 1-124-438-00 ELECT 1MF 20% 50V

C908 1-124-927-11 ELECT 4.7MF 20% 50V

C909 1-124-499-11 ELECT 1MF 20% 50V

REF. NO. PART NO. DESCRIPTION

CN701 *1-564-337-00 PIN, CONNECTOR 3P

CN801 1-566-908-11 SOCKET, CONNECTOR 32P

CN807 *1-564-340-00 PIN, CONNECTOR 6P

CN808 *1-564-337-61 PIN, CONNECTOR 3P

CN809 *1-564-337-00 PIN, CONNECTOR 3P

CN811 *1-564-505-11 PLUG, CONNECTOR 2P

CN813 *1-564-338-00 PIN, CONNECTOR 4P

CN901 1-535-773-11 JUMPER, FILM (WITH TERMINAL)

CNP11A*1-564-501-11 PIN, CONNECTOR 8P

CNP11B*1-564-499-11 PIN, CONNECTOR 6P

CNP12A*1-564-337-00 PIN, CONNECTOR 3P

CNP12B*1-564-337-61 PIN, CONNECTOR 3P

CNP13A*1-564-707-11 PIN, CONNECTOR (SMALL TYPE) 5P

CNP13B*1-564-707-11 PIN, CONNECTOR (SMALL TYPE) 5P

CNP21B*1-565-344-11 (AEP,UK)...PIN, CONNECTOR (PC BOARD) 8P

CNP22 *1-565-347-11 (AEP,UK)...SOCKET, CONNECTOR (PC BOARD) 8P

CNP81A*1-564-706-11 PIN, CONNECTOR (SMALL TYPE) 4P

CNP81B*1-564-709-11 PIN, CONNECTOR (SMALL TYPE) 7P

CNP82A*1-564-339-00 PIN, CONNECTOR 5P

CNP82B*1-564-339-00 PIN, CONNECTOR 5P

CNP83 *1-564-338-00 (AEP,UK).....PIN, CONNECTOR 4P

CNP83B*1-564-338-00 (US,Canadian)...PIN, CONNECTOR 4P

CP801 1-233-120-11 COMPOSITION CIRCUIT BLOCK

CP802 1-233-119-11 COMPOSITION CIRCUIT BLOCK

CT41B 1-141-391-11 (US,Canadian)...CAP, TRIMMER

CT61B 1-141-391-11 (US,Canadian)...CAP, TRIMMER

D11A 8-719-107-94 DIODE 1SS132

D11B 8-719-107-94 DIODE 1SS132

D81B 8-719-107-94 DIODE 1SS132

D101 8-719-107-94 DIODE 1SS1322

D201 8-719-107-94 DIODE 1SS132

D501 8-719-107-94 DIODE 1SS132

D502 8-719-107-94 DIODE 1SS132

D701 8-719-200-77 DIODE 10E2N

D702 8-719-200-77 DIODE 10E2N

D703 8-719-200-77 DIODE 10E2N

D704 8-719-200-77 DIODE 10E2N

D705 8-719-200-77 DIODE 10E2N

D706 8-719-200-77 DIODE 10E2N

D707 8-719-933-43 DIODE HZS7A1L

D708 8-719-107-94 DIODE 1SS132

D709 8-719-107-94 DIODE 1SS132

D710 8-719-107-94 DIODE 1SS132

D711 8-719-107-94 DIODE 1SS132

D712 8-719-933-33 DIODE HZS6A1L

D714 8-719-933-43 DIODE HZS7A1L

D801 8-719-200-77 DIODE 10E2N

D803 8-719-200-77 DIODE 10E2N

D804 8-719-107-94 DIODE 1SS132

D805 8-719-107-94 DIODE 1SS132

D906 8-719-302-52 DIODE SEL1410E

D907 8-719-941-46 DIODE GL-5HY41

Ref.No.	Part No.	Description
D908	8-719-941-46	DIODE GL-5HY41
D909	8-719-941-46	DIODE GL-5HY41
D910	1-807-689-11	DIODE SLP9070
D911	1-807-689-11	DIODE SLP9070
D912	1-807-689-11	DIODE SLP4070
D913	8-719-975-61	DIODE SLP3070
D914	8-719-302-45	DIODE SEL1210S
D915	8-719-302-52	DIODE SEL1410E
D916	8-719-941-46	DIODE GL-5HY41
D917	8-719-941-46	DIODE GL-5HY41
D918	8-719-304-38	DIODE SEL4414E-D
D919	8-719-304-38	DIODE SEL4414E-D
D920	8-719-304-38	DIODE SEL4414E-D
D921	8-719-304-38	DIODE SEL4414E-D
D922	8-719-304-32	DIODE SEL4214S
D923	8-719-304-32	DIODE SEL4214S
D924	8-719-304-32	DIODE SEL4214S
D925	8-719-304-38	DIODE SEL4414E-D
D926	8-719-304-38	DIODE SEL4414E-D
D927	8-719-304-38	DIODE SEL4414E-D
D928	8-719-304-38	DIODE SEL4414E-D
D929	8-719-304-32	DIODE SEL4214S
D930	8-719-304-32	DIODE SEL4214S
D931	8-719-304-32	DIODE SEL4214S
HP101	A-2108-129-A	(DECK A)...CHASSIS ASSY, HEAD
HRPE101	A-2108-130-A	(DECK B)...CHASSIS ASSY, HEAD
F701	△.1-532-780-21	(Canadian,AEP,UK)...FUSE, MICRO 2.5A
F702	△.1-532-780-21	(Canadian,AEP,UK)...FUSE, MICRO 2.5A
IC21	8-759-133-90	IC UPC339C
IC91	8-759-106-56	IC UPC1297CA
IC81A	8-759-111-44	IC UPC4570C-1
IC81B	8-759-111-44	IC UPC4570C-1
IC501	8-759-040-53	IC MC14053BCP
IC502	8-752-018-70	IC CX20187
IC503	8-759-208-06	IC TC4051BPHB
IC504	8-752-033-61	IC CXA1198AP
IC505	8-759-945-58	IC RC4558P
IC506	8-759-601-02	IC M5218P
IC701	8-759-945-58	IC RC4558P
IC801	8-759-240-69	IC TC4069UBP
IC802	8-759-240-52	IC TC4052BP
IC803	8-752-806-03	IC CXP5048H-159S
IC804	8-741-161-00	IC SBX1610-51
IC902	8-759-912-79	IC IR2E02
IC903	8-759-912-79	IC IR2E02
J501	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)
J502	1-507-796-71	JACK (HEADPHONES)
L41	1-410-780-11	(AEP,UK).....INDUCTOR 27MMH
L41B	1-410-780-11	(US,Canadian)...INDUCTOR 27MMH
L61	1-410-780-11	(AEP,UK).....INDUCTOR 27MMH
L61B	1-410-780-11	(US,Canadian)...INDUCTOR 27MMH
LPF101	1-236-475-11	FILTER, LOW PASS
LPF201	1-236-475-11	FILTER, LOW PASS
M1	X-3343-408-1	(DECK A)...MOTOR ASSY
M2	X-3343-408-1	(DECK B)...MOTOR ASSY
PM1	1-454-456-11	(DECK A)...SOLENOID, PLUNGER
PM2	1-454-456-11	(DECK B)...SOLENOID, PLUNGER

Ref.No.	Part No.	Description
Q11A	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q11B	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q12A	8-719-939-23	TRANSISTOR GP2S09-C
Q12B	8-719-939-23	TRANSISTOR GP2S09-C
Q21	8-729-900-65	(AEP,UK)...TRANSISTOR DTA144ES
Q81B	8-729-111-29	(US,Canadian)...TRANSISTOR 2SD1388
Q81B	8-729-116-57	(AEP,UK).....TRANSISTOR 2SB1013
Q82B	8-729-100-12	(US,Canadian)...TRANSISTOR 2SC2001-L
Q82B	8-729-194-57	(AEP,UK).....TRANSISTOR 2SC945
Q83B	8-729-100-12	(US,Canadian)...TRANSISTOR 2SC2001-L
Q83B	8-729-194-57	(AEP,UK).....TRANSISTOR 2SC945
Q101	8-729-115-77	TRANSISTOR BAIL4M
Q102	8-729-119-78	TRANSISTOR 2SC2785
Q103	8-729-119-78	TRANSISTOR 2SC2785
Q201	8-729-115-77	TRANSISTOR BAIL4M
Q202	8-729-119-78	TRANSISTOR 2SC2785
Q203	8-729-119-78	TRANSISTOR 2SC2785
Q501	8-729-115-77	TRANSISTOR BAIL4M
Q502	8-729-119-78	TRANSISTOR 2SC2785
Q503	8-729-173-38	TRANSISTOR 2SA733
Q701	8-729-119-78	TRANSISTOR 2SC2785
Q702	8-729-904-27	TRANSISTOR 2SD1761-E
Q703	8-729-900-83	TRANSISTOR DTC124XS
Q704	8-729-920-91	TRANSISTOR 2SB1187-F
Q705	8-729-904-27	TRANSISTOR 2SD1761-E
Q706	8-729-115-77	TRANSISTOR BAIL4M
Q801	8-729-900-61	TRANSISTOR DTA114ES
Q802	8-729-801-93	TRANSISTOR 2SD1387
Q803	8-729-802-22	TRANSISTOR 2SB1014
Q806	8-729-900-61	TRANSISTOR DTA114ES
Q807	8-729-801-93	TRANSISTOR 2SD1387
Q808	8-729-802-22	TRANSISTOR 2SB1014
Q809	8-729-900-61	TRANSISTOR DTA114ES
Q810	8-729-900-61	TRANSISTOR DTA114ES
Q811	8-729-115-77	TRANSISTOR BAIL4M
Q812	8-729-900-65	TRANSISTOR DTA144ES
Q813	8-729-900-65	TRANSISTOR DTA144ES
Q814	8-729-900-65	TRANSISTOR DTA144ES
Q815	8-729-900-65	TRANSISTOR DTA144ES
Q816	8-729-900-61	TRANSISTOR DTA114ES
Q817	8-729-900-61	TRANSISTOR DTA114ES
Q818	8-729-900-61	TRANSISTOR DTA114ES
Q819	8-729-900-61	TRANSISTOR DTA114ES
Q820	8-729-900-61	TRANSISTOR DTA114ES
Q821	8-729-801-93	TRANSISTOR 2SD1387
R11B	1-247-834-11	CARBON 1.3K 5% 1/4W
R12B	1-249-414-11	CARBON 560 5% 1/4W
R13B	1-247-818-11	CARBON 300 5% 1/4W
R14A	1-249-408-11	CARBON 180 5% 1/4W
R14B	1-249-408-11	CARBON 180 5% 1/4W
R17A	1-249-437-11	CARBON 47K 5% 1/4W
R17B	1-249-437-11	CARBON 47K 5% 1/4W
R18A	1-249-437-11	CARBON 47K 5% 1/4W
R18B	1-249-437-11	CARBON 47K 5% 1/4W

Note:

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



Note:

Les composants identifiés par une marque **△** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.


Ref.No.	Part No.	Description				
R21	1-249-425-11	(AEP,UK)...CARBON	4.7K	5%	1/4W	
R22	1-249-421-11	(AEP,UK)...CARBON	2.2K	5%	1/4W	
R23	1-249-421-11	(AEP,UK)...CARBON	2.2K	5%	1/4W	
R24	1-249-423-11	(AEP,UK)...CARBON	3.3K	5%	1/4W	
R25	1-249-429-11	(AEP,UK)...CARBON	10K	5%	1/4W	
R26	1-249-430-11	(AEP,UK)...CARBON	12K	5%	1/4W	
R27	1-247-838-00	(AEP,UK)...CARBON	2.0K	5%	1/4W	
R28	1-249-419-11	(AEP,UK)...CARBON	1.5K	5%	1/4W	
R41A	1-247-881-00	CARBON	120K	5%	1/4W	
R41B	1-247-881-00	CARBON	120K	5%	1/4W	
R42A	1-249-405-11	CARBON	100	5%	1/4W	
R42B	1-249-405-11	CARBON	100	5%	1/4W	
R43A	1-247-882-11	CARBON	130K	5%	1/4W	
R43B	1-247-882-11	(AEP,UK).....CARBON	130K	5%	1/4W	
R43B	1-247-885-00	(US,Canadian)...CARBON	180K	5%	1/4W	
R44A	1-249-426-11	CARBON	5.6K	5%	1/4W	
R44B	1-249-426-11	CARBON	5.6K	5%	1/4W	
R45	1-249-430-11	(AEP,UK).....CARBON	12K	5%	1/4W	
R45B	1-249-430-11	(US,Canadian)...CARBON	12K	5%	1/4W	
R51	1-249-434-11	(AEP,UK).....CARBON	27K	5%	1/4W	
R52	1-249-393-11	(AEP,UK).....CARBON	150K	5%	1/4W	
R53	1-247-883-00	(AEP,UK).....CARBON	150K	5%	1/4W	
R54	1-249-433-11	(AEP,UK).....CARBON	22K	5%	1/4W	
R61A	1-247-881-00	CARBON	120K	5%	1/4W	
R61B	1-247-881-00	CARBON	120K	5%	1/4W	
R62A	1-249-405-11	CARBON	100	5%	1/4W	
R62B	1-249-405-11	CARBON	100	5%	1/4W	
R63A	1-247-882-11	CARBON	130K	5%	1/4W	
R63B	1-247-882-11	(AEP,UK).....CARBON	130K	5%	1/4W	
R63B	1-247-885-00	(US,Canadian)...CARBON	180K	5%	1/4W	
R64A	1-249-426-11	CARBON	5.6K	5%	1/4W	
R64B	1-249-426-11	CARBON	5.6K	5%	1/4W	
R65	1-249-430-11	(AEP,UK).....CARBON	12K	5%	1/4W	
R65B	1-249-430-11	(US,Canadian)...CARBON	12K	5%	1/4W	
R71	1-249-434-11	(AEP,UK).....CARBON	27K	5%	1/4W	
R72	1-249-393-11	(AEP,UK).....CARBON	10	5%	1/4W	
R73	1-247-883-00	(AEP,UK).....CARBON	150K	5%	1/4W	
R74	1-249-433-11	(AEP,UK).....CARBON	22K	5%	1/4W	
R81A	1-249-409-11	CARBON	220	5%	1/4W	
R81B	1-249-409-11	CARBON	220	5%	1/4W	
R82A	1-249-409-11	CARBON	220	5%	1/4W	
R82B	1-249-409-11	CARBON	220	5%	1/4W	
R83B	1-249-429-11	(US,Canadian)...CARBON	10K	5%	1/4W	
R84B	1-212-851-00	(US,Canadian)...FUSIBLE	5.6	5%	1/4W	F
R84B	1-212-849-00	(AEP,UK).....FUSIBLE	4.7	5%	1/4W	F
R85B	1-249-436-11	(US,Canadian)...CARBON	39K	5%	1/4W	
R85B	1-249-438-11	(AEP,UK).....CARBON	56K	5%	1/4W	
R86B	1-249-436-11	(US,Canadian)...CARBON	39K	5%	1/4W	
R86B	1-249-438-11	(AEP,UK).....CARBON	56K	5%	1/4W	
R87B	1-249-429-11	(AEP,UK)...CARBON	10K	5%	1/4W	
R88B	1-249-429-11	(AEP,UK)...CARBON	10K	5%	1/4W	
R101	1-249-423-11	CARBON	3.3K	5%	1/4W	
R102	1-249-423-11	CARBON	3.3K	5%	1/4W	
R103	1-247-887-00	CARBON	220K	5%	1/4W	

Ref.No.	Part No.	Description				
R104	1-249-430-11	CARBON	12K	5%	1/4W	
R105	1-249-433-11	CARBON	22K	5%	1/4W	
R106	1-249-421-11	CARBON	2.2K	5%	1/4W	
R107	1-249-431-11	CARBON	15K	5%	1/4W	
R108	1-249-421-11	CARBON	2.2K	5%	1/4W	
R109	1-249-417-11	CARBON	1K	5%	1/4W	
R121	1-249-417-11	CARBON	1K	5%	1/4W	
R123	1-249-423-11	CARBON	3.3K	5%	1/4W	
R124	1-249-428-11	CARBON	8.2K	5%	1/4W	
R125	1-215-430-00	METAL	2.4K	1%	1/6W	
R126	1-247-846-11	CARBON	4.3K	5%	1/4W	
R127	1-247-822-11	CARBON	430	5%	1/4W	
R128	1-249-415-11	CARBON	680	5%	1/4W	
R129	1-249-428-11	CARBON	8.2K	5%	1/4W	
R130	1-249-425-11	CARBON	4.7K	5%	1/4W	
R131	1-249-421-11	CARBON	2.2K	5%	1/4W	
R132	1-249-428-11	CARBON	8.2K	5%	1/4W	
R133	1-249-427-11	CARBON	6.8K	5%	1/4W	
R151	1-249-417-11	CARBON	1K	5%	1/4W	
R152	1-249-429-11	CARBON	10K	5%	1/4W	
R153	1-249-405-11	CARBON	100	5%	1/4W	
R201	1-249-423-11	CARBON	3.3K	5%	1/4W	
R202	1-249-423-11	CARBON	3.3K	5%	1/4W	
R203	1-247-887-00	CARBON	220K	5%	1/4W	
R204	1-249-430-11	CARBON	12K	5%	1/4W	
R205	1-249-433-11	CARBON	22K	5%	1/4W	
R206	1-249-421-11	CARBON	2.2K	5%	1/4W	
R207	1-249-431-11	CARBON	15K	5%	1/4W	
R208	1-249-421-11	CARBON	2.2K	5%	1/4W	
R209	1-249-417-11	CARBON	1K	5%	1/4W	
R221	1-249-417-11	CARBON	1K	5%	1/4W	
R223	1-249-423-11	CARBON	3.3K	5%	1/4W	
R224	1-249-428-11	CARBON	8.2K	5%	1/4W	
R225	1-215-430-00	METAL	2.4K	1%	1/6W	
R226	1-247-846-11	CARBON	4.3K	5%	1/4W	
R227	1-247-822-11	CARBON	430	5%	1/4W	
R228	1-249-415-11	CARBON	680	5%	1/4W	
R229	1-249-428-11	CARBON	8.2K	5%	1/4W	
R230	1-249-425-11	CARBON	4.7K	5%	1/4W	
R231	1-249-421-11	CARBON	2.2K	5%	1/4W	
R232	1-249-428-11	CARBON	8.2K	5%	1/4W	
R233	1-249-427-11	CARBON	6.8K	5%	1/4W	
R251	1-249-417-11	CARBON	1K	5%	1/4W	
R252	1-249-429-11	CARBON	10K	5%	1/4W	
R253	1-249-405-11	CARBON	100	5%	1/4W	
R501	1-249-429-11	CARBON	10K	5%	1/4W	
R502	1-249-429-11	CARBON	10K	5%	1/4W	
R503	1-249-427-11	CARBON	6.8K	5%	1/4W	
R504	1-249-427-11	CARBON	6.8K	5%	1/4W	
R505	1-249-417-11	CARBON	1K	5%	1/4W	
R506	1-249-417-11	CARBON	1K	5%	1/4W	
R507	1-249-437-11	CARBON	47K	5%	1/4W	
R508	1-249-437-11	CARBON	47K	5%	1/4W	
R509	1-249-437-11	CARBON	47K	5%	1/4W	
R510	1-215-469-00	METAL	100K	1%	1/6W	
R511	1-247-864-11	CARBON	24K	5%	1/4W	
R521	1-247-870-11	CARBON	43K	5%	1/4W	

Note:

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

Note:

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description				
R522	1-249-435-11	CARBON	33K	5%	1/4W	
R523	1-249-438-11	CARBON	56K	5%	1/4W	
R524	1-247-882-11	CARBON	130K	5%	1/4W	
R525	1-249-440-11	CARBON	82K	5%	1/4W	
R526	1-249-438-11	CARBON	56K	5%	1/4W	
R527	1-247-876-11	(AEP,UK).....CARBON	75K	5%	1/4W	
R527	1-249-439-11	(US,Canadian)...CARBON	68K	5%	1/4W	
R528	1-247-872-11	(US,Canadian)...CARBON	51K	5%	1/4W	
R528	1-249-438-11	(AEP,UK).....CARBON	56K	5%	1/4W	
R529	1-247-864-11	(AEP,UK).....CARBON	24K	5%	1/4W	
R529	1-249-435-11	(US,Canadian)...CARBON	33K	5%	1/4W	
R530	1-249-440-11	CARBON	82K	5%	1/4W	
R531	1-247-881-00	CARBON	120K	5%	1/4W	
R532	1-247-887-00	CARBON	220K	5%	1/4W	
R533	1-247-874-11	(US,Canadian)...CARBON	62K	5%	1/4W	
R533	1-249-440-11	(AEP,UK).....CARBON	82K	5%	1/4W	
R534	1-249-437-11	CARBON	47K	5%	1/4W	
R535	1-247-872-11	(US,Canadian)...CARBON	51K	5%	1/4W	
R535	1-247-874-11	(AEP,UK).....CARBON	62K	5%	1/4W	
R536	1-247-881-00	CARBON	120K	5%	1/4W	
R537	1-247-878-00	CARBON	91K	5%	1/4W	
R538	1-247-883-00	CARBON	150K	5%	1/4W	
R539	1-249-436-11	CARBON	39K	5%	1/4W	
R540	1-249-438-11	CARBON	56K	5%	1/4W	
R541	1-247-868-11	(AEP,UK).....CARBON	36K	5%	1/4W	
R541	1-249-435-11	(US,Canadian)...CARBON	33K	5%	1/4W	
R542	1-249-438-11	CARBON	56K	5%	1/4W	
R543	1-249-437-11	CARBON	47K	5%	1/4W	
R544	1-247-881-00	CARBON	120K	5%	1/4W	
R545	1-249-432-11	CARBON	18K	5%	1/4W	
R546	1-247-868-11	CARBON	36K	5%	1/4W	
R547	1-247-866-11	CARBON	30K	5%	1/4W	
R548	1-247-874-11	CARBON	62K	5%	1/4W	
R549	1-247-870-11	CARBON	43K	5%	1/4W	
R550	1-249-441-11	CARBON	100K	5%	1/4W	
R551	1-247-870-11	CARBON	43K	5%	1/4W	
R552	1-249-439-11	CARBON	68K	5%	1/4W	
R553	1-249-430-11	(AEP,UK).....CARBON	12K	5%	1/4W	
R553	1-249-431-11	(US,Canadian)...CARBON	15K	5%	1/4W	
R554	1-249-436-11	CARBON	39K	5%	1/4W	
R555	1-247-876-11	CARBON	75K	5%	1/4W	
R556	1-247-880-11	CARBON	110K	5%	1/4W	
R558	1-249-429-11	CARBON	10K	5%	1/4W	
R559	1-249-417-11	CARBON	1K	5%	1/4W	
R560	1-249-437-11	CARBON	47K	5%	1/4W	
R561	1-249-437-11	CARBON	47K	5%	1/4W	
R562	1-249-437-11	CARBON	47K	5%	1/4W	
R563	1-247-887-00	CARBON	220K	5%	1/4W	
R564	1-249-429-11	CARBON	10K	5%	1/4W	
R565	1-249-441-11	CARBON	100K	5%	1/4W	
R566	1-249-428-11	CARBON	8.2K	5%	1/4W	
R567	1-249-423-11	CARBON	3.3K	5%	1/4W	
R568	1-249-441-11	CARBON	100K	5%	1/4W	
R569	1-249-417-11	CARBON	1K	5%	1/4W	

Ref.No.	Part No.	Description			
R570	1-249-441-11	CARBON	100K	5%	1/4W
R571	1-249-429-11	CARBON	10K	5%	1/4W
R572	1-249-441-11	CARBON	100K	5%	1/4W
R573	1-249-417-11	CARBON	1K	5%	1/4W
R574	1-249-439-11	CARBON	68K	5%	1/4W
R575	1-249-429-11	CARBON	10K	5%	1/4W
R701	1-249-421-11	CARBON	2.2K	5%	1/4W
R702	1-249-423-11	CARBON	3.3K	5%	1/4W
R703	1-249-437-11	CARBON	47K	5%	1/4W
R704	1-249-437-11	CARBON	47K	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W
R706	1-249-421-11	CARBON	2.2K	5%	1/4W
R707	1-249-409-11	CARBON	220	5%	1/4W
R708	1-215-439-00	METAL	5.6K	1%	1/6W
R709	1-215-431-00	METAL	2.7K	1%	1/6W
R710	1-215-440-00	METAL	6.2K	1%	1/6W
R711	1-215-445-00	METAL	10K	1%	1/6W
R712	1-249-429-11	CARBON	10K	5%	1/4W
R713	1-249-429-11	CARBON	10K	5%	1/4W
R714	1-249-429-11	CARBON	10K	5%	1/4W
R715	1-249-420-11	CARBON	1.8K	5%	1/4W
R716	1-249-409-11	CARBON	220	5%	1/4W
R717	1-249-420-11	CARBON	1.8K	5%	1/4W
R801	1-249-425-11	CARBON	4.7K	5%	1/4W
R802	1-249-413-11	CARBON	470	5%	1/4W
R803	1-249-417-11	CARBON	1K	5%	1/4W
R804	1-249-425-11	CARBON	4.7K	5%	1/4W
R805	1-249-436-11	CARBON	39K	5%	1/4W
R806	1-249-429-11	CARBON	10K	5%	1/4W
R811	1-249-437-11	CARBON	47K	5%	1/4W
R812	1-249-430-11	CARBON	12K	5%	1/4W
R813	1-247-895-00	CARBON	470K	5%	1/4W
R814	1-247-895-00	CARBON	470K	5%	1/4W
R815	1-249-436-11	CARBON	39K	5%	1/4W
R816	1-249-429-11	CARBON	10K	5%	1/4W
R817	1-249-417-11	CARBON	1K	5%	1/4W
R818	1-249-425-11	CARBON	4.7K	5%	1/4W
R819	1-249-425-11	CARBON	4.7K	5%	1/4W
R820	1-249-413-11	CARBON	470	5%	1/4W
R821	1-249-437-11	CARBON	47K	5%	1/4W
R822	1-249-429-11	CARBON	10K	5%	1/4W
R823	1-249-421-11	CARBON	2.2K	5%	1/4W
R828	1-249-425-11	CARBON	4.7K	5%	1/4W
R832	1-249-433-11	CARBON	22K	5%	1/4W
R833	1-249-433-11	CARBON	22K	5%	1/4W
R834	1-249-406-11	CARBON	120	5%	1/4W
R835	1-249-407-11	CARBON	150	5%	1/4W
R836	1-249-407-11	CARBON	150	5%	1/4W
R837	1-249-407-11	CARBON	150	5%	1/4W
R838	1-247-816-11	CARBON	240	5%	1/4W
R839	1-249-406-11	CARBON	120	5%	1/4W
R840	1-249-407-11	CARBON	150	5%	1/4W
R841	1-249-407-11	CARBON	150	5%	1/4W
R842	1-249-417-11	CARBON	1K	5%	1/4W
R843	1-249-425-11	CARBON	4.7K	5%	1/4W
R844	1-249-413-11	CARBON	470	5%	1/4W
R845	1-249-413-11	CARBON	470	5%	1/4W

TC-WR610

Ref.No.	Part No.	Description
R846	1-249-409-11	CARBON 220 5% 1/4W
R847	1-249-409-11	CARBON 220 5% 1/4W
R851	1-249-393-11	CARBON 10 5% 1/4W
R852	1-249-393-11	CARBON 10 5% 1/4W
R853	1-249-417-11	CARBON 1K 5% 1/4W
R854	1-249-425-11	CARBON 4.7K 5% 1/4W
R912	1-249-418-11	CARBON 1.2K 5% 1/4W
R913	1-249-420-11	CARBON 1.8K 5% 1/4W
R914	1-249-430-11	CARBON 12K 5% 1/4W
R915	1-247-842-11	CARBON 3K 5% 1/4W
R916	1-249-433-11	CARBON 22K 5% 1/4W
R917	1-249-441-11	CARBON 100K 5% 1/4W
R918	1-249-441-11	CARBON 100K 5% 1/4W
R919	1-249-425-11	CARBON 4.7K 5% 1/4W
R920	1-249-425-11	CARBON 4.7K 5% 1/4W
R921	1-249-433-11	CARBON 22K 5% 1/4W
R922	1-249-441-11	CARBON 100K 5% 1/4W
R923	1-249-441-11	CARBON 100K 5% 1/4W
R924	1-249-425-11	CARBON 4.7K 5% 1/4W
R925	1-249-425-11	CARBON 4.7K 5% 1/4W
R926	1-249-404-00	CARBON 82 5% 1/4W
R927	1-247-854-11	(US,Canadian)...CARBON 9.1K 5% 1/4W
R927	1-249-429-11	(AEP,UK)...CARBON 10K 5% 1/4W
R928	1-247-846-11	(US,Canadian)...CARBON 4.3K 5% 1/4W
R928	1-249-425-11	(AEP,UK)...CARBON 4.7K 5% 1/4W
R929	1-247-834-11	(US,Canadian)...CARBON 1.3K 5% 1/4W
R929	1-249-417-11	(AEP,UK)...CARBON 1K 5% 1/4W
R930	1-249-423-11	CARBON 3.3K 5% 1/4W
R931	1-249-420-11	CARBON 1.8K 5% 1/4W
R932	1-249-418-11	CARBON 1.2K 5% 1/4W
R933	1-249-423-11	CARBON 3.3K 5% 1/4W
R934	1-249-420-11	CARBON 1.8K 5% 1/4W
R935	1-249-418-11	CARBON 1.2K 5% 1/4W
R936	1-249-420-11	CARBON 1.8K 5% 1/4W
R937	1-249-418-11	CARBON 1.2K 5% 1/4W
R938	1-249-420-11	CARBON 1.8K 5% 1/4W
R939	1-249-418-11	CARBON 1.2K 5% 1/4W
RV41A	1-228-989-00	RES, ADJ, CARBON 470
RV41B	1-228-989-00	(US,Canadian)...RES, ADJ, CARBON 470
RV41B	1-228-990-00	(AEP,UK)...RES, ADJ, CARBON 1K
RV42	1-230-497-11	RES, ADJ, CARBON 22K
RV61A	1-228-989-00	RES, ADJ, CARBON 470
RV61B	1-228-989-00	(US,Canadian)...RES, ADJ, CARBON 470
RV61B	1-228-990-00	(AEP,UK)...RES, ADJ, CARBON 1K
RV62	1-230-497-11	RES, ADJ, CARBON 22K
RV103	1-228-994-00	RES, ADJ, CARBON 10K
RV203	1-228-994-00	RES, ADJ, CARBON 10K
RV901	1-230-090-00	RES, VAR, CARBON 20K/20K(REC LEVEL)
RV902	1-238-261-11	RES, VAR, CARBON 50K/50K(BALANCE)
RY81B	1-515-614-11	RELAY
S11A	1-571-281-21	SWITCH, LEAF (HALF DET)
S11B	1-571-281-21	SWITCH, LEAF (HALF DET)
S12B	1-571-281-21	SWITCH, LEAF (ERASE PROOF SIDE A)
S13B	1-571-281-21	SWITCH, LEAF (ERASE PROOF SIDE B)
S14A	1-571-281-21	SWITCH, LEAF (CrO2)

Ref.No.	Part No.	Description
S701	1-571-715-21	SWITCH, PUSH (1 KEY)(POWER)
S801	1-571-918-11	(US,Canadian)...SWITCH, SLIDE (REMOTE)
S901	1-554-596-21	SWITCH, KEY BOARD (REC MUTE (DECK B))
S902	1-554-596-21	SWITCH, KEY BOARD (◀(DECK B))
S903	1-554-596-21	SWITCH, KEY BOARD (▶(DECK B))
S904	1-554-596-21	SWITCH, KEY BOARD (PAUSE (DECK B))
S905	1-554-596-21	SWITCH, KEY BOARD (REC (DECK B))
S906	1-554-596-21	SWITCH, KEY BOARD (▶▶(DECK B))
S907	1-554-596-21	SWITCH, KEY BOARD (◀◀(DECK B))
S908	1-554-596-21	SWITCH, KEY BOARD (■(DECK B))
S909	1-554-596-21	SWITCH, KEY BOARD (◀(DECK A))
S910	1-554-596-21	SWITCH, KEY BOARD (▶(DECK A))
S911	1-554-596-21	SWITCH, KEY BOARD (▶▶(DECK A))
S912	1-554-596-21	SWITCH, KEY BOARD (◀◀(DECK A))
S913	1-554-596-21	SWITCH, KEY BOARD (■(DECK A))
S914	1-554-596-21	SWITCH, KEY BOARD (AUTO PAUSE)
S915	1-554-596-21	SWITCH, KEY BOARD (NORMAL)
S916	1-554-596-21	SWITCH, KEY BOARD (HIGH)
S917	1-554-596-21	SWITCH, KEY BOARD (AMS/BLK SKIP)
S918	1-571-690-11	SWITCH, SLIDE (DIR MODE)
S919	1-571-690-11	SWITCH, SLIDE (TAPE (DECK B))
S920	1-571-690-11	SWITCH, SLIDE (DOLBY NR)
SPK101	1-235-186-00	ENCAPSULATED COMPONENT
SPK201	1-235-186-00	ENCAPSULATED COMPONENT
T51	1-433-335-11	(AEP,UK)...TRANSFORMER, BIAS OSCILLATION
T71	1-433-335-11	(AEP,UK)...TRANSFORMER, BIAS OSCILLATION
T701	1-449-420-11	(US,Canadian)...TRANSFORMER, POWER
T701	1-449-661-11	(AEP,UK)...TRANSFORMER, POWER
T81B	1-433-334-11	(US,Canadian)...TRANSFORMER, BIAS OSCILLATION
T81B	1-433-348-11	(AEP,UK)...TRANSFORMER, BIAS OSCILLATION
TP83B	*1-564-338-00	(AEP,UK)...PIN, CONNECTOR 4P
TP91	*1-564-508-11	(AEP,UK)...PLUG, CONNECTOR 5P
X801	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)

ACCESSORY & PACKING MATERIAL

1-559-533-11	CORD, CONNECTION
*3-349-005-01	CUSHION
*3-349-028-41	INDIVIDUAL CARTON
3-349-084-01	LABEL ((POP)-C)
3-701-630-00	BAG, POLYETHYLENE
3-703-450-01	(US)...INSTRUCTION

3-750-198-11	(AEP)...MANUAL, INSTRUCTION
3-750-198-21	(US,UK)...MANUAL, INSTRUCTION
3-750-198-31	(Canadian)...MANUAL, INSTRUCTION
3-750-198-41	(AEP)...MANUAL, INSTRUCTION
3-750-198-51	(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.

Note:

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TC-WR610


SONY[®] SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model

CORRECTION-1

There are some corrections and additions in the service manual previously issued.

Please correct your service manual.

 : Corrected or added portion.

1. ELECTRICAL ADJUSTMENT ADDITION (Last of page 7.)

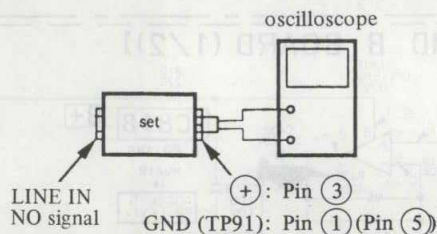
Record Bias Step-Up Adjustment (AEP, UK Model)

DECK B

This adjustment should be performed when replacing the heads (HRP101) or the bias oscillating transformers (T51, 71), or DOLBY HX PRO IC (IC91).

() : R-CH

Setting:

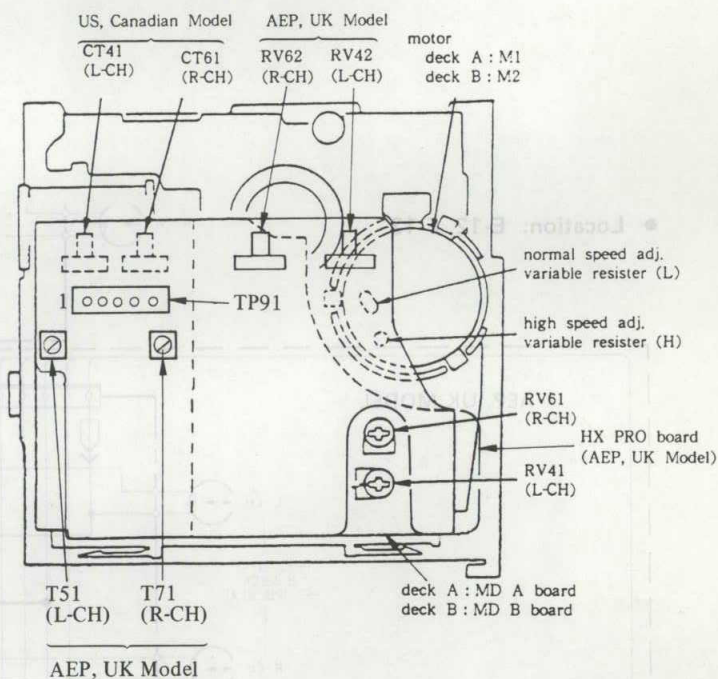


Procedure:

1. Set RV42 (RV62) to the mechanical center.
2. Mode: FWD record
TAPE SELECTOR: TYPE IV
3. Adjust with T51 (T71) so that the reading on the oscilloscope becomes 150 mV.

Adjustment Location: HX PRO board

- Adjustment Parts Location Diagrams -



AEP, UK Model

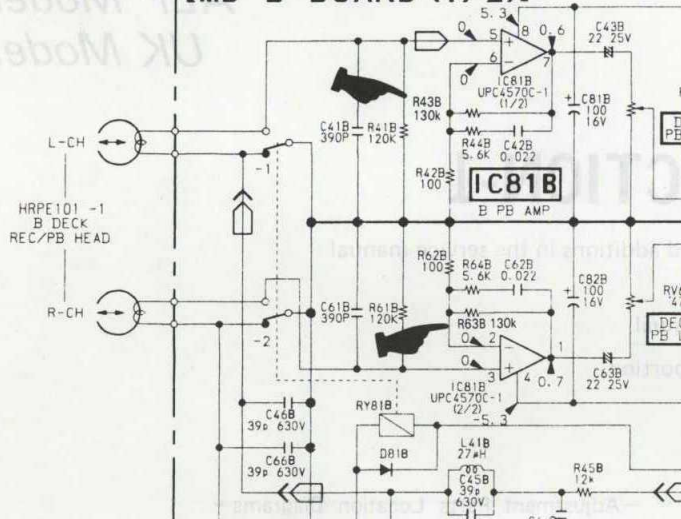
2. SCHEMATIC DIAGRAM CORRECTION

(Page 20 to 22.)

- Location: E-5, F-5

US, CANADIAN
MODEL

[MD B BOARD (1/2)]

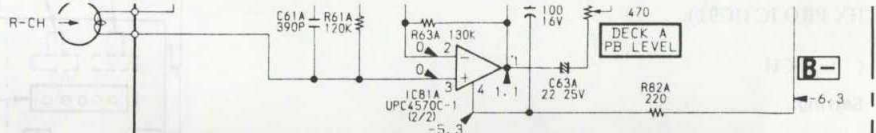


3. ELECTRICAL PARTS LIST CORRECTION

(Page 33.)

R42A	1-249-405-11	CARBON	100	5%	1/4W
R42B	1-249-405-11	CARBON	100	5%	1/4W
R43A	1-247-882-11	CARBON	130K	5%	1/4W
R43B	1-247-882-11	(AEP,UK).....CARBON	130K	5%	1/4W
R43B	1-247-885-00	(US,Canadian)....CARBON	180K	5%	1/4W
R44A	1-249-426-11	CARBON	5.6K	5%	1/4W
R44B	1-249-426-11	CARBON	5.6K	5%	1/4W
R45	1-249-430-11	(AEP,UK).....CARBON	12K	5%	1/4W
R45B	1-249-430-11	(US,Canadian)....CARBON	12K	5%	1/4W
R51	1-249-434-11	(AEP,UK).....CARBON	27K	5%	1/4W
R52	1-249-393-11	(AEP,UK).....CARBON	150K	5%	1/4W
R53	1-247-883-00	(AEP,UK).....CARBON	150K	5%	1/4W
R54	1-249-433-11	(AEP,UK).....CARBON	22K	5%	1/4W
R61A	1-247-881-00	CARBON	120K	5%	1/4W
R61B	1-247-881-00	CARBON	120K	5%	1/4W
R62A	1-249-405-11	CARBON	100	5%	1/4W
R62B	1-249-405-11	CARBON	100	5%	1/4W
R63A	1-247-882-11	CARBON	130K	5%	1/4W
R63B	1-247-882-11	(AEP,UK).....CARBON	130K	5%	1/4W
R63B	1-247-885-00	(US,Canadian)....CARBON	180K	5%	1/4W
R64A	1-249-426-11	CARBON	5.6K	5%	1/4W
R64B	1-249-426-11	CARBON	5.6K	5%	1/4W
R65	1-249-430-11	(AEP,UK).....CARBON	12K	5%	1/4W
R65B	1-249-430-11	(US,Canadian)....CARBON	12K	5%	1/4W

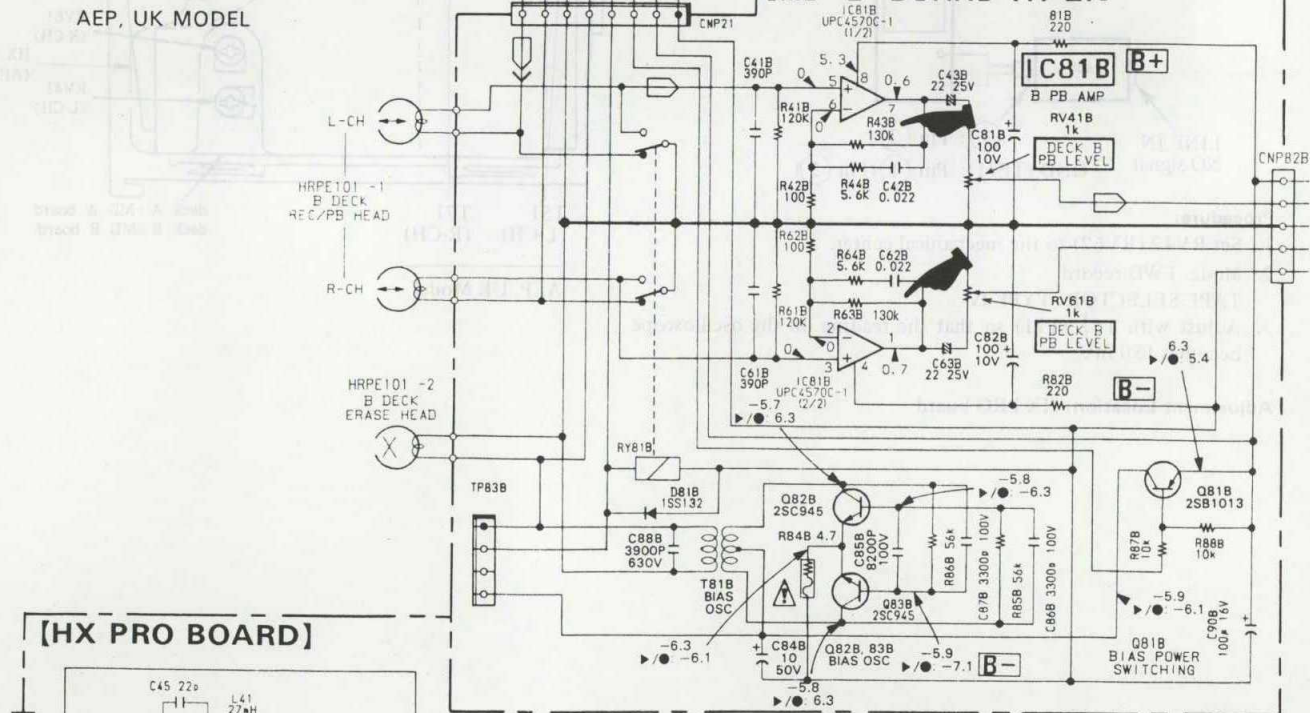
- Location: E-12, F-12



AEP, UK MODEL

[MD B BOARD (1/2)]

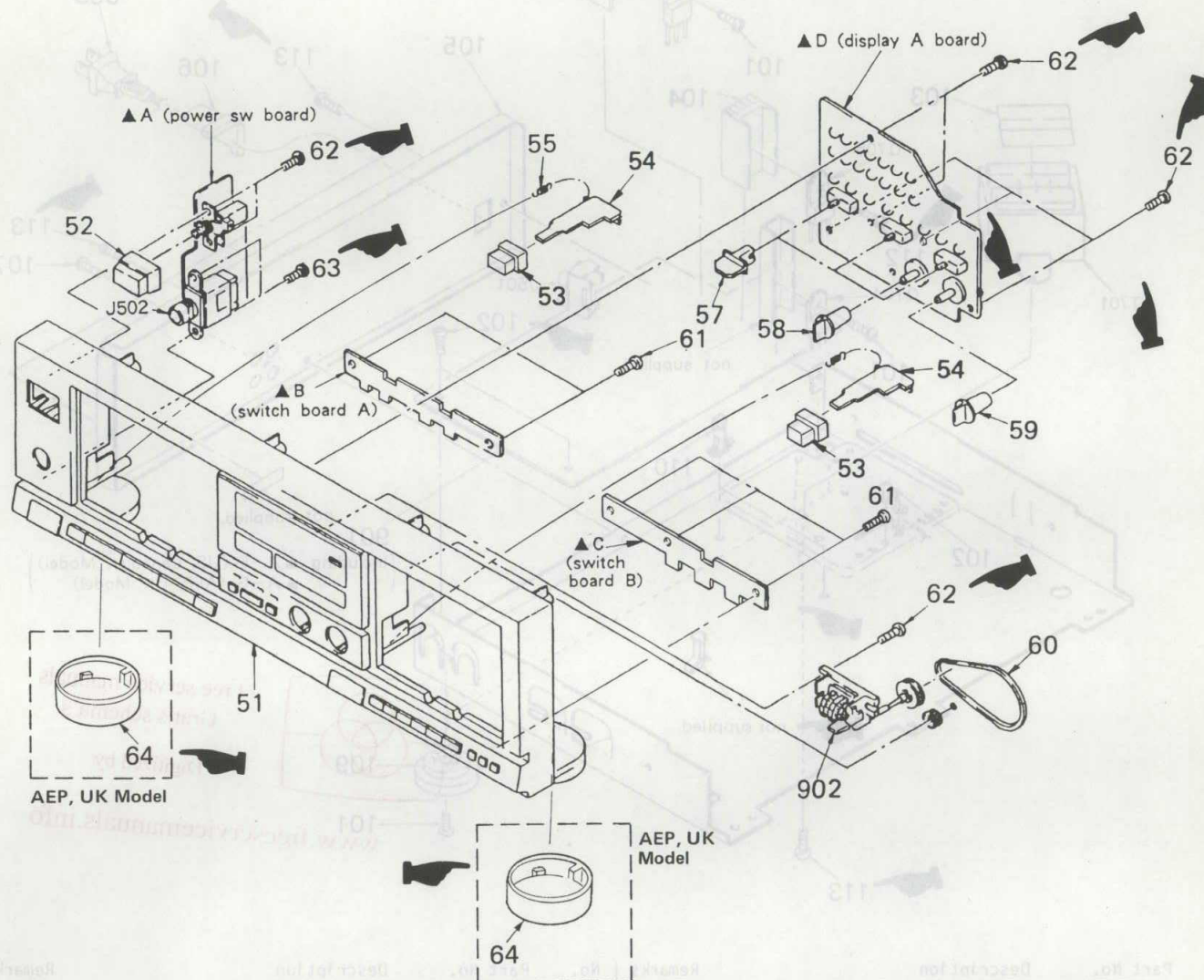
[HX PRO BOARD]



4. EXPLODED VIEWS CORRECTION

● Page 26

(2)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	X-3340-157-1	(US,Canadian)...PANEL ASSY, FRONT		58	3-346-380-11	KNOB (VOL)	
	X-3340-166-1	(AEP,UK).....PANEL ASSY, FRONT		59	3-346-380-21	KNOB (VOL)	
52	4-917-460-01	KNOB, POWER		60	3-333-457-01	BELT (DIA.47.4)	
53	3-343-698-21	BUTTON (EJECT)		61	7-685-533-19	SCREW +BTP 2.6X6	
54	*3-349-070-01	SLIDER (EJECT)		62	4-928-635-01	SCREW +BVTP 2.6X8 (S)	
55	3-662-752-21	SPRING, TENSION		63	7-685-134-19	SCREW +PTPHW 2.6X8	
56	7-682-548-04	SCREW +BVTT 3X8 (S)		64	4-929-030-11	(AEP, UK)...RING, ORNAMENTAL (φ53A)	
57	3-346-379-21	KNOB (SLIDE)		902	1-548-596-11	COUNTER, TAPE (MIDDLE TYPE)	
				J502	1-507-796-71	JACK (HEADPHONES)	

Note:

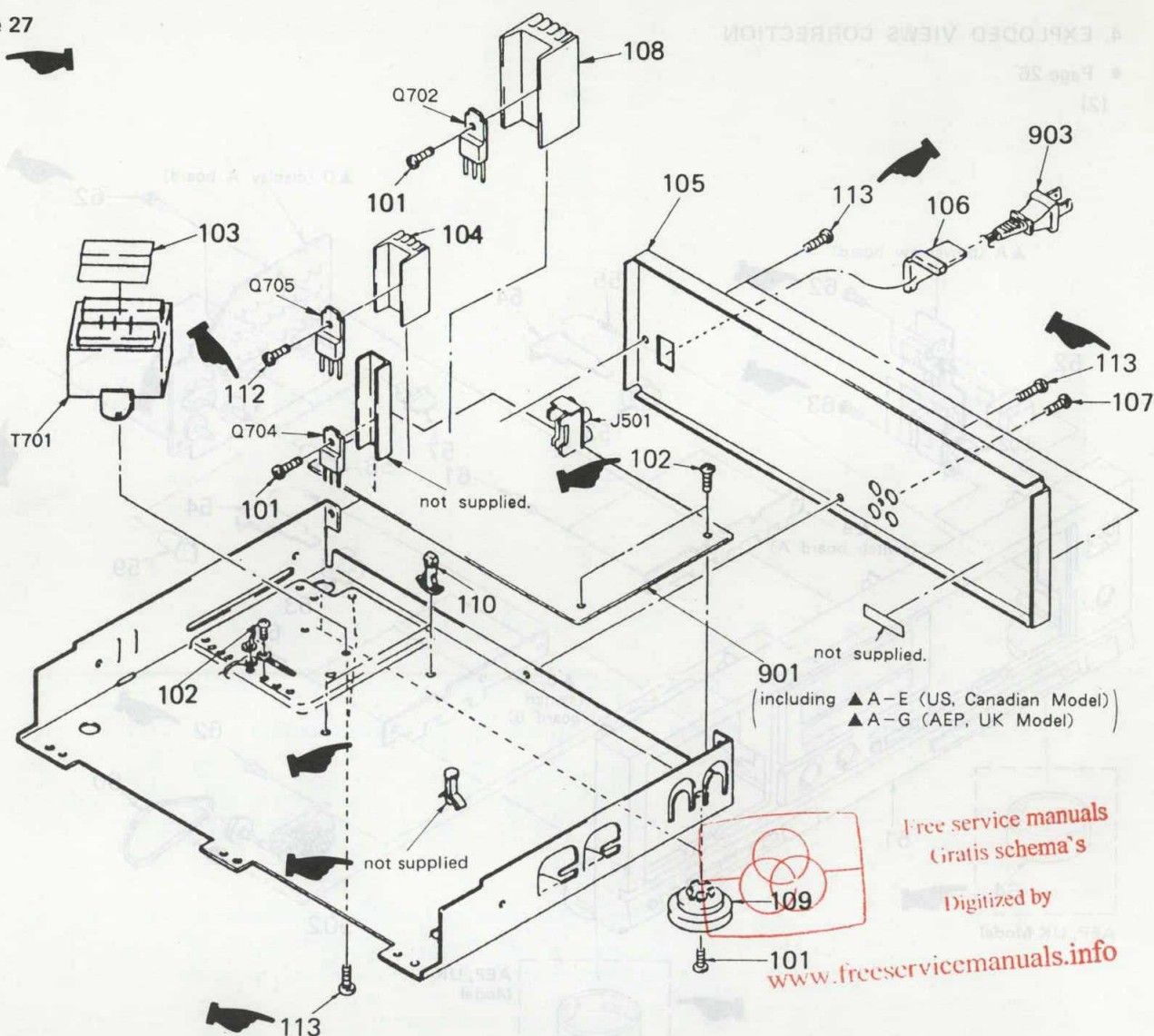
The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

● Page 27

(3)



Free service manuals
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No.	Part No.	Description	Remarks
101	7-682-548-04	SCREW +BVTT 3X8 (S)	
102	7-682-547-04	SCREW +BVTT 3X6 (S)	
103	*3-337-136-01	COVER, TRANSFORMER SAFETY	
104	*4-363-146-21	HEAT SINK, V.OUT	
105	*3-349-050-21 (AEP).....	PANEL, BACK	
	*3-349-050-31 (UK).....	PANEL, BACK	
	*3-349-050-41 (US,Canadian)...	PANEL, BACK	
106	*3-703-244-00 (AEP,UK).....	BUSHING (2104), CORD	
	3-703-571-00 (US,Canadian)...	BUSHING (S)(4516), CORD	
107	7-621-849-00	SCREW, TAPPING	
108	*4-363-147-00	HEAT SINK, H.PIN	

Note:

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

Note:

Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks
109	X-4885-935-1	(AEP,UK).....	FOOT ASSY
	X-4911-201-1	(US,Canadian)...	FOOT ASSY
110	*3-346-265-11	HOLDER, PC BOARD	
112	7-685-646-81	SCREW +BVTP 3X8	
113	7-685-872-09	SCREW +BVTT 3X8 (S) BZn-N	
901	*A-2006-091-A (US).....	MOUNTED PCB, SYSTEM CONTROL	
	*A-2006-092-A (Canadian)...	MOUNTED PCB, SYSTEM CONTROL	
	*A-2056-446-A (AEP,UK)....	MOUNTED PCB, SYSTEM CONTROL	
903	▲.1-551-506-XX (US,Canadian)...	CORD, POWER	
	▲.1-551-884-21 (UK).....	CORD, POWER	
	▲.1-555-795-00 (AEP).....	CORD, POWER, EURO PLUG	
J501	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)	
T701	▲.1-449-420-11 (US,Canadian)...	TRANSFORMER, POWER	
T701	▲.1-449-661-11 (AEP,UK).....	TRANSFORMER, POWER	