

TC-V7700

SERVICE MANUAL

AEP Model
UK Model



Model Name Using Similar Mechanism	TC-AV1
Tape Transport	TCM-CMAY B-25 (DECK-A)
Mechanism Type	TCM-CMAY B-24 (DECK-B)

SPECIFICATIONS

Recording system

4-track 2-channel stereo

Fast-forward and rewind time

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

Bias

AC Bias

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

Cassette	Dolby NR switch		
	OFF	B-TYPE ON	C-TYPE ON
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, DIN) 30–13,000 Hz (OVU recording)
TYPE II cassette (Sony UX-S)	30–15,000 Hz (± 3 dB, DIN)
TYPE I cassette (Sony HF-S)	30–14,000 Hz (± 3 dB, DIN)

Wow and flutter

0.07% WRMS (NAB)
 $\pm 0.2\%$ (DIN)

Inputs

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

Outputs

Line outputs (phono jacks)	Rated output level	0.44 V (-5 dB) at a load impedance 47 k ohms
	Load impedance	Over 10 k ohms

— Continued on page 2 —

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[®]

General

Power requirements

Model for European countries
220 V AC (or 240 V AC adjustable by
Sony personnel), 50/60 Hz
Model for the United Kingdom
240 V AC (or 220 V AC adjustable by
Sony personnel), 50/60 Hz

Power consumption

29 W

Dimensions

Approx. 355x130x315 mm (w/h/d)
(14x5¹/₈ x12¹/₂ inches)
including projecting parts and controls

Weight

Approx. 5.4 kg (11 lbs 15 oz)

Supplied accessory Audio connecting cord (2)

Design and specifications subject to change without notice.

Note

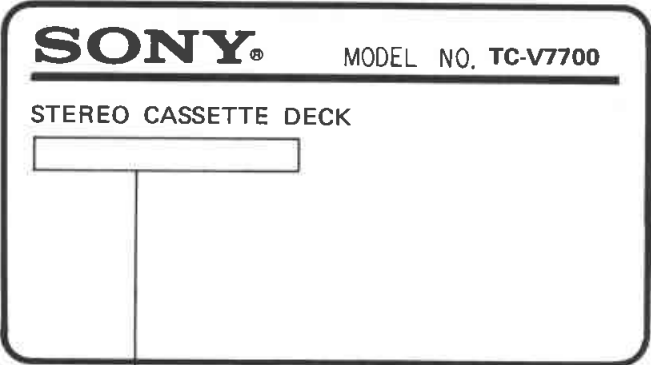
This appliance conforms with EEC Directives 76/889 and 82/499
regarding interference suppression.

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MODEL IDENTIFICATION

— Specification Label —

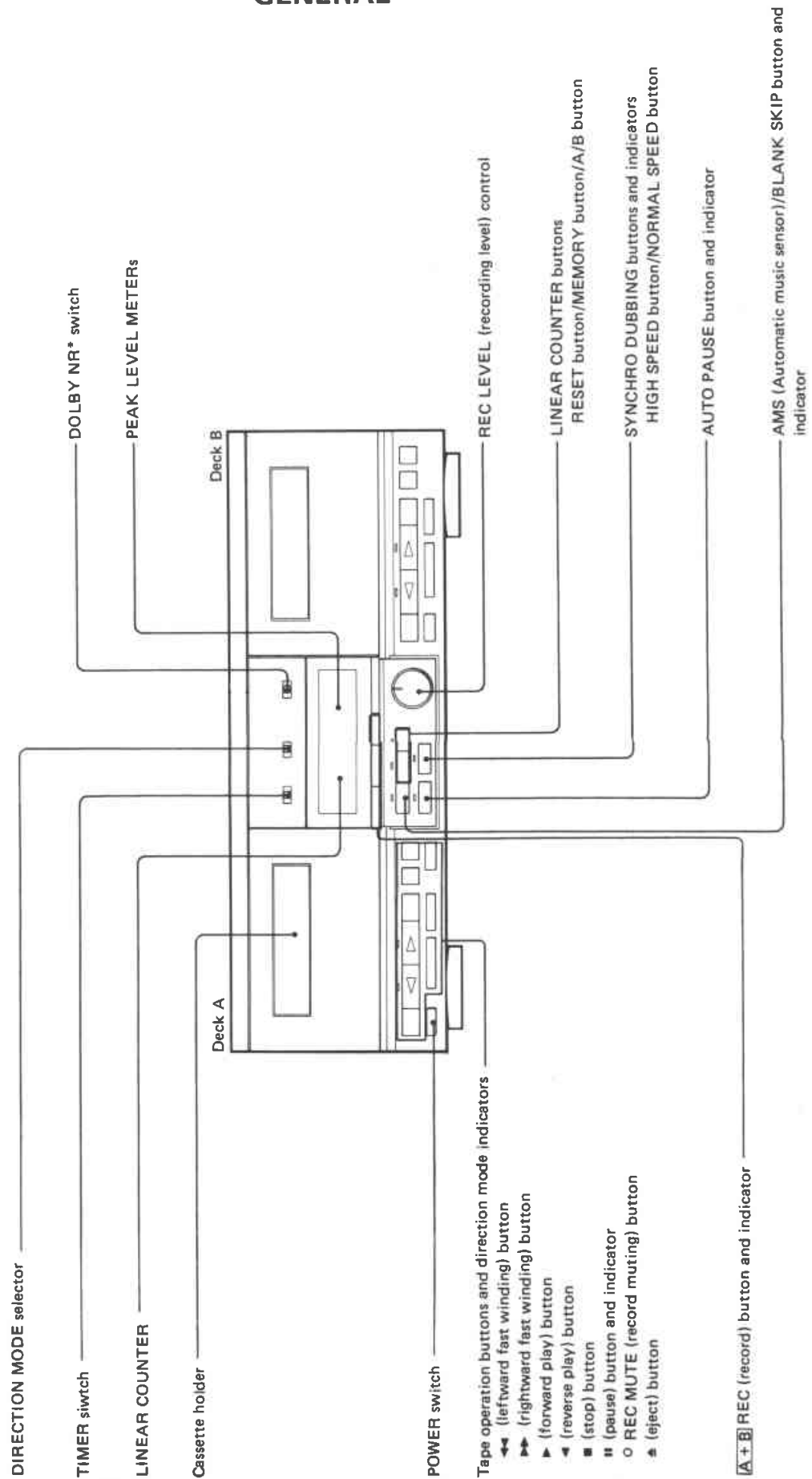


AEP model : 220V~50/60Hz 29W
UK model : 240V~50/60Hz 29W

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 PUB-
LISHED BY SONY.

SECTION 1 GENERAL

Location of Controls



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Troubleshooting Guide

The following trouble checks will help you correct the most common problems encountered with your tape deck. Should any problems persist after you have made these checks, consult your nearest Sony dealer.

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

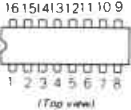
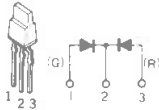
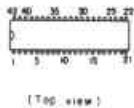
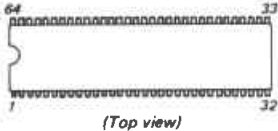
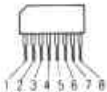
- The power cord is firmly connected.
- Amplifier connections are firmly made.
- Heads, capstans and pinch rollers are clean.
- The amplifier controls and switches are set correctly.

FUNCTION BUTTONS AND TAPE TRANSPORT PROBLEMS		
Symptom	Cause	Remedy
Function buttons do not activate.	Cassette holder is not fully closed.	Close the holder completely.
Playback or recording begins just as the power is turned on.	The TIMER switch is not set to OFF.	Set the TIMER switch to OFF.
● button does not activate.	No cassette in the holder.	Insert a cassette.
Automatic shut-off mechanism activates before the tape comes to its end.	Tab has been removed from the cassette.	Cover the hole with plastic tape.
	Tape is slack.	Take up the tape slack.
	Cassette shell is deformed.	Use another cassette.
	The MEMORY function is activated.	Press the MEMORY button to deactivate the function.
Excessively loud tape transport noise when rewinding or fast-forwarding	The inside of the cassette holder is illuminated by strong light.	Remove the light source.
	This depends on the cassette used and is not a problem.	—
	▲ button was pressed immediately after the ◀, ▶ or ■ button was pressed.	Turn the power off, and then press the button.

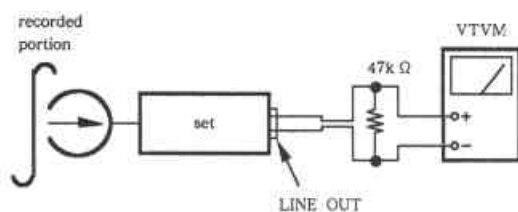
RECORDING AND PLAYBACK PROBLEMS		
Symptom	Cause	Remedy
Quick reverse function does not operate.	DIRECTION MODE selector is set to —.	Set the selector to ◀.
Recording or playback cannot be made or there is a decrease in sound level.	Record/playback and erase heads are either dirty or magnetized.	Clean 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 in accordance with instructions
Incomplete erasure	Erase head is dirty.	Clean the erase head.
	Head is magnetized.	Demagnetize the head.
Increased noise or poor reproduction in high frequencies	Improper setting of the DOLBY NR switch.	During playback, set the switch to the same position used in recording.
Unbalanced tone in high frequencies	The unit is placed near a television set.	Move the deck 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 Q 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 of volume	—

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

Semiconductors Lead Layout

BX1393 	M5218P μPC4570C-1 	2SB1094-L 2SB1375 2SD1585-L 2SD2012 
CXA1198P TC40518P TC40528P 	DTA114ES DTA144ES DTC114ES DTC143TS DTC-144ES 2SC634SP 2SD1012 	GL9ND24 
CX20187 	2SA1175 2SC3623-L 	HZS6A1L HZS7B2L HZS7C1L 
MB88515B-233K M50940-400SP 	2SB647 	SEL2910D-C SEL4225GM-C SEL4225RM-C SEL4925DM-C 
M4011BP M4066BP 	2SB1013 2SC2001 2SD774 2SD1387 2SD1388 	US1060M 10E2N 
M5218L 		

2. Mode : playback

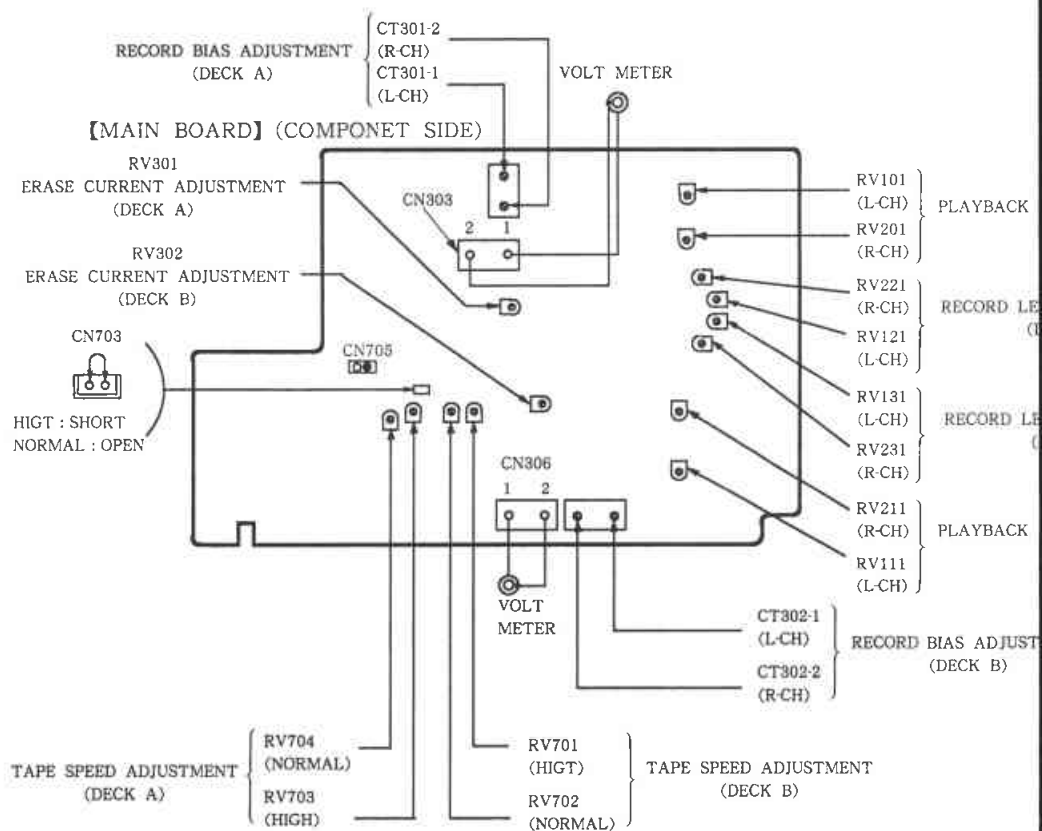


3. Playback the signal recorded in step 1.
Confirm that the signal level is within the specification below. If necessary,
adjust { deck A :RV121 (L-CH), RV221 (R-CH) } and
{ deck B :RV131 (L-CH), RV231 (R-CH) } and
repeat the step 1-3.

Specification :

LINE OUT level : 0.39-0.49V
(-6 to -4dB)

Adjustment Parts Location



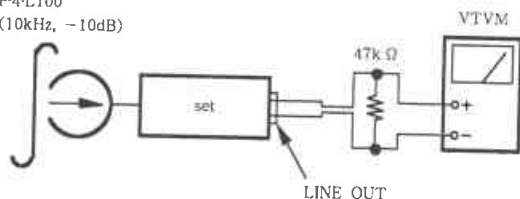
Record/playback Head Azimuth Adjustment

Deck-A Deck-B

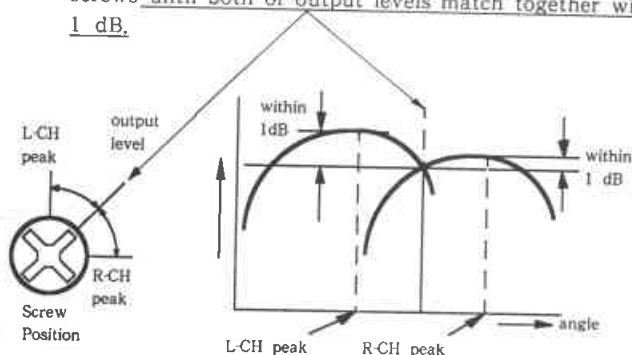
Procedure :

1. Mode : forward playback

test tape
P-4-L100
(10kHz, -10dB)

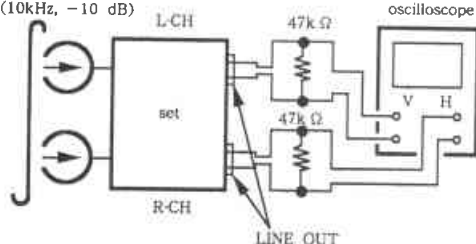


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screws until both of output levels match together within 1 dB.

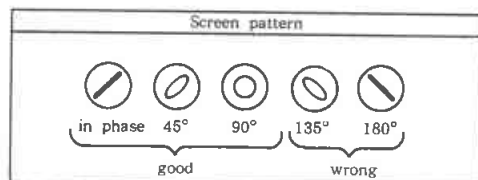


3. Mode : playback

test tape
P-4-A100
(10kHz, -10 dB)

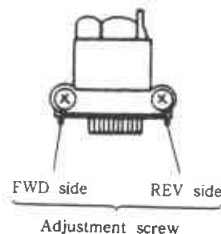


● Phase Check



4. Set in the reverse mode and repeat the steps 1-2.
5. After the adjustment, lock the screws with locking compound.

Adjustment Location : record/playback head



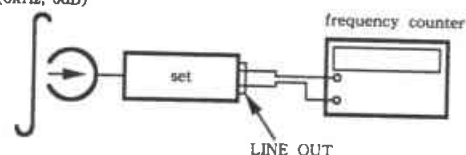
Tape Speed Adjustment

Deck-A Deck-B

Procedure :

Mode : forward playback

test tape
WS-48B
(3kHz, 0dB)



Playback the beginning of test tape WA-48B, and

adjust $\left\{ \begin{array}{l} \text{deck-A : RV703 (high speed),} \\ \text{RV704 (normal speed)} \\ \text{deck-B : RV701 (high speed),} \\ \text{RV702 (normal speed)} \end{array} \right\}$, so that the

reading on frequency counter meets the specification below. Frequency difference between deck-A and deck-B should be within 1.5% (high speed : 90Hz, normal speed : 45Hz).

Specifications :

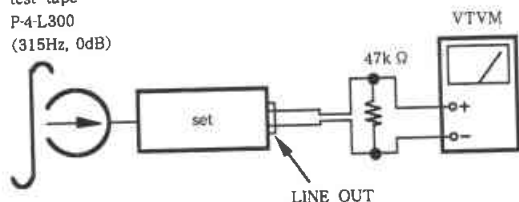
	Deck	Adjustment part	Test pin (TP-X2)	Frequency counter
High speed	A	RV703	SHORT	5,960-6,040Hz
	B	RV701		
Normal speed	A	RV704	OPEN	2,980-3,020Hz
	B	RV702		

Playback Level Adjustment

Deck-A Deck-B

Procedure :

Mode : forward playback

test tape
P-4-L300
(315Hz, 0dB)

Adjust { deck A : RV101 (L-CH), 201 (R-CH) }
 { deck B : RV111 (L-CH), 211 (L-CH) } so
 that the reading on VTVM meets the specification below.

Specification :

LINE OUT level : 0.14 to 0.46V
 (-5.5 to -4.5dB)

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.

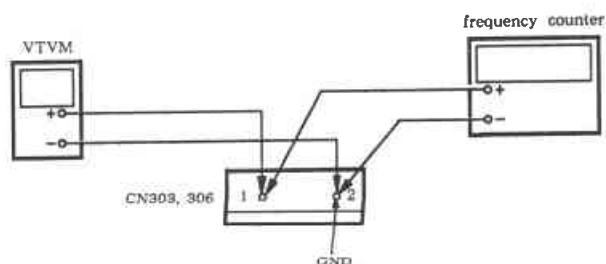
Erase Electric Current Adjustment

Deck-A Deck-B

Erase electric current adjustment is sure to front of record bias adjustment.

Behind the erase electric current adjustment, record bias adjustment do over again.

1. Connect CN303 (deck A) and CN306 (deck B) with VTVM and frequency counter.
2. Trimmer condenser CT301 (deck A) and CT302 (deck B) to loosen semi-revolution from maximum.
3. CS-42 in deck A/B and record mode.
4. Confirm frequency counter level is 205 to 215Hz.
5. Adjustment T302 (deck A) and T303 (deck B) so that the maximum VTVM level.
6. Adjustment RV301 (deck A) and CN302 (deck B) so that 160 to 165mA VTVM level.



Record Bias Adjustment

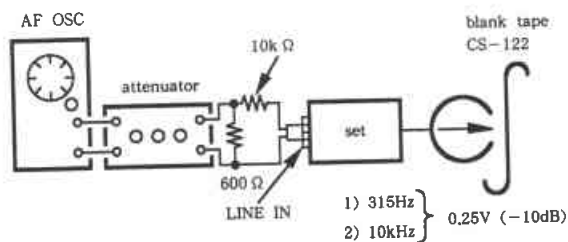
Deck-A Deck-B

Setting :

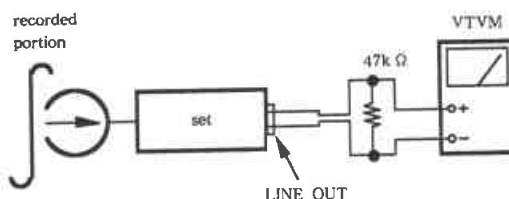
REC LEVEL control : standard record
 (See page 5.)

Procedure :

1. Mode : record



2. Mode : playback



Confirm that the 10kHz playback output is 0dB relative to the 315Hz output. If necessary,

adjust { deck A : CT301-1 (L-CH), CT301-2 (R-CH) }
 { deck B : CT302-1 (L-CH), CT302-2 (R-CH) } and
 repeat the steps given above.

Record Level Adjustment

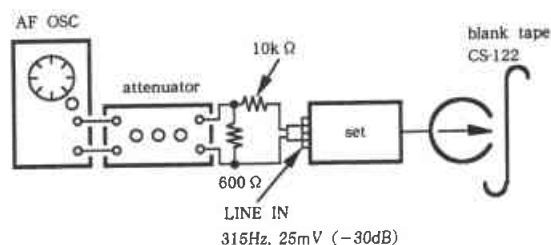
Deck-A Deck-B

Setting :

REC LEVEL control : standard record
 (See page 5.)

Procedure :

1. Mode : record



Playback Level Adjustment

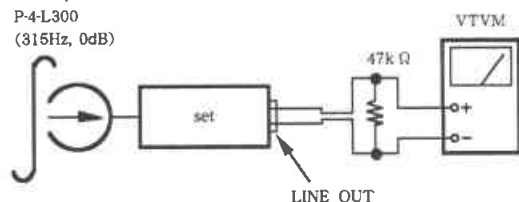
Deck-A

Deck-B

Procedure :

Mode : forward playback

test tape
P-4-L300
(315Hz, 0dB)



Adjust { deck A : RV101 (L-CH), 201 (R-CH) }
{ deck B : RV111 (L-CH), 211 (L-CH) } so
that the reading on VTVM meets the specification below.

Specification :

LINE OUT level : 0.14 to 0.46V
(-5.5 to -4.5dB)

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.

Erase Electric Current Adjustment

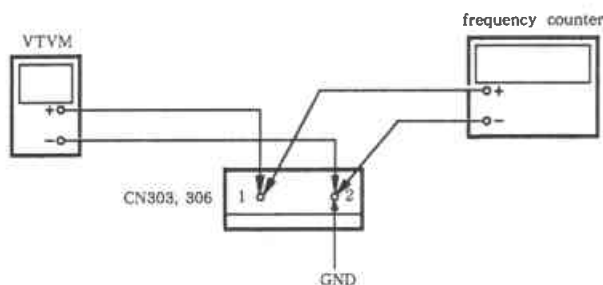
Deck-A

Deck-B

Erase electric current adjustment is sure to front of record bias adjustment.

Behind the erase electric current adjustment, record bias adjustment do over again.

1. Connect CN303 (deck A) and CN306 (deck B) with VTVM and frequency counter.
2. Trimmer condenser CT301 (deck A) and CT302 (deck B) to loosen semi-revolution from maximum.
3. CS-42 in deck A/B and record mode.
4. Confirm frequency counter level is 205 to 215Hz.
5. Adjustment T302 (deck A) and T303 (deck B) so that the maximum VTVM level.
6. Adjustment RV301 (deck A) and CN302 (deck B) so that 160 to 165mA VTVM level.



Record Bias Adjustment

Deck-A

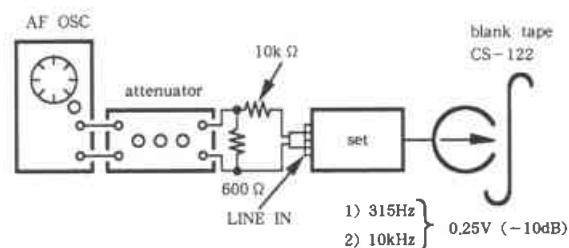
Deck-B

Setting :

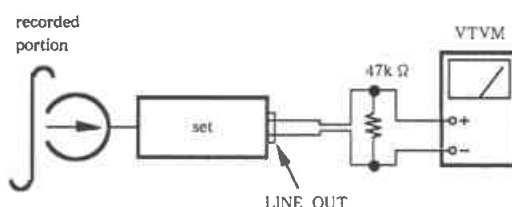
REC LEVEL control : standard record
(See page 5.)

Procedure :

1. Mode : record



2. Mode : playback



Confirm that the 10kHz playback output is 0dB relative to the 315Hz output. If necessary,

adjust { deck A : CT301-1 (L-CH), CT301-2 (R-CH) }
{ deck B : CT302-1 (L-CH), CT302-2 (R-CH) } and
repeat the steps given above.

Record Level Adjustment

Deck-A

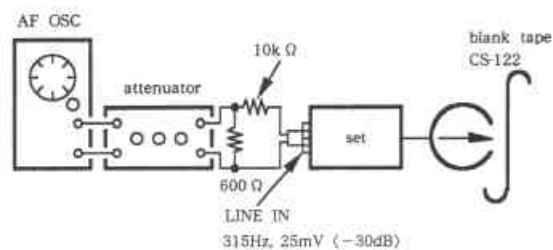
Deck-B

Setting :

REC LEVEL control : standard record
(See page 5.)

Procedure :

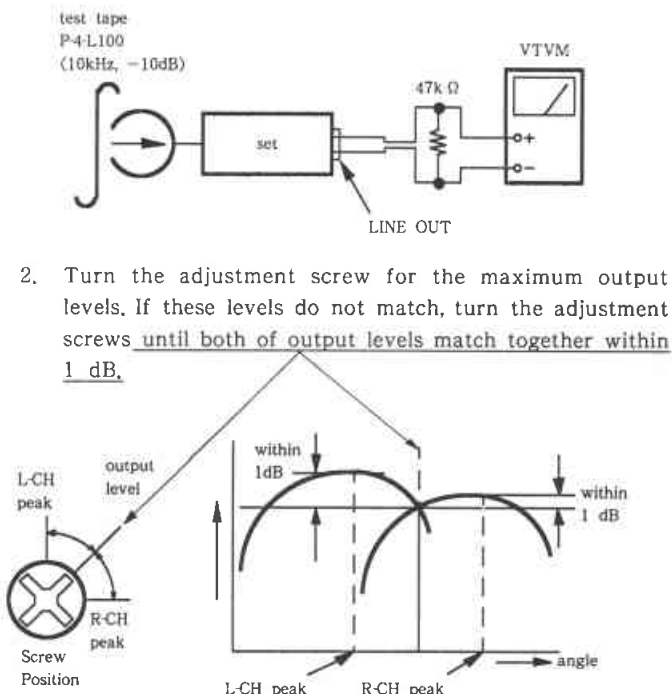
1. Mode : record



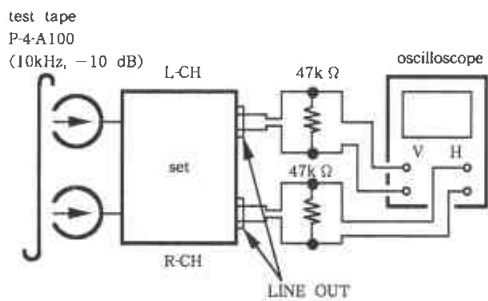
Record/playback Head Azimuth Adjustment

Deck-A Deck-B

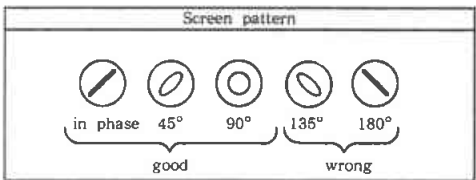
- Procedure :
1. Mode : forward playback



3. Mode : playback

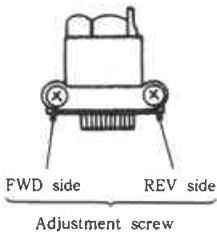


● Phase Check



4. Set in the reverse mode and repeat the steps 1-2.
5. After the adjustment, lock the screws with locking compound.

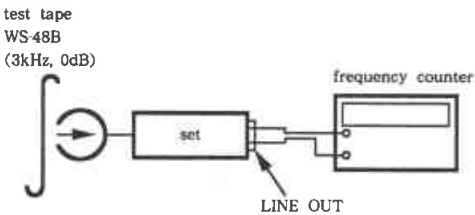
Adjustment Location : record/playback head



Tape Speed Adjustment

Deck-A Deck-B

- Procedure :
- Mode : forward playback



Playback the beginning of test tape WA-48B, and

adjust {
deck-A : RV703 (high speed),
RV704 (normal speed)
deck-B : RV701 (high speed),
RV702 (normal speed)
} . so that the

reading on frequency counter meets the specification below. Frequency difference between deck-A and deck-B should be within 1.5% (high speed : 90Hz, normal speed : 45Hz).

Specifications :

	Deck	Adjustment part	Test pin (TP-X2)	Frequency counter
High speed	A	RV703	SHORT	5,960-6,040Hz
	B	RV701		
Normal speed	A	RV704	OPEN	2,980-3,020Hz
	B	RV702		

SECTION 2
MECHANICAL AND ELECTRICAL AJUSTMENTS

MECHANICAL ADJUSTMENTS

PRECAUTION

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

record/playback head

pinch roller

erase head

rubber belts

capstan

idlers
- 2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	30 to 70 g · cm (0.42 to 0.97 oz · inch)
FWD BACK TENTION	CQ-102C	2 to 6 g · cm (0.03 to 0.08 oz · inch)
REV	CQ-102RC	30 to 70 g · cm (0.42 to 0.97 oz · inch)
REV BACK TENTION	CQ-102C	2 to 6 g · cm (0.03 to 0.08 oz · inch)
FF, REW	CQ-201B	90 to 160 g · cm (1.26 to 2.22 oz · inch)

ELECTRICAL ADJUSTMENTS

Note : The adjustment should be performed in the order given in this 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.

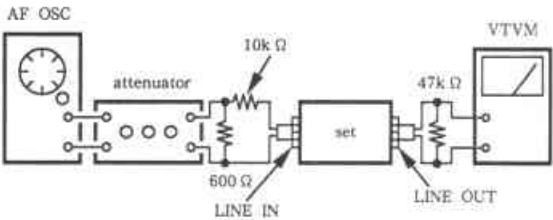
DOLBY NR switch :

OFF

TIMER switch :

OFF
- Standard Record : (CN705 : Short)
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 (−10 dB)

Standard Output Level

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

Test Tape

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

24

25

26

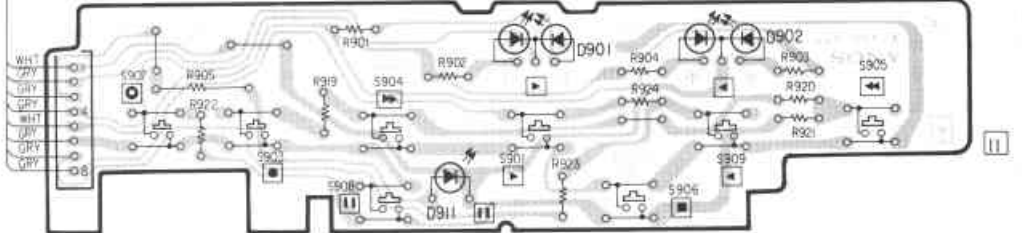
27

28

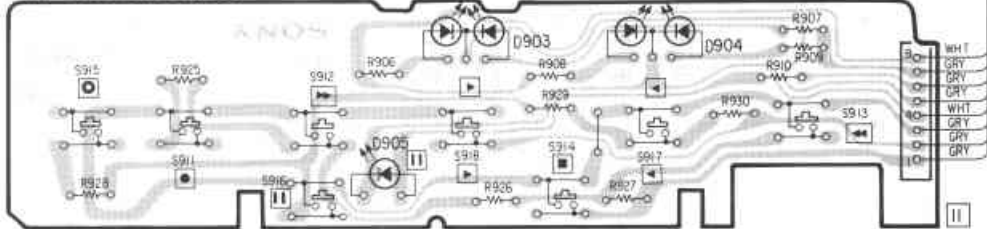
29

30

[A FUNCTION BOARD]



[B FUNCTION BOARD]



DECK A/B

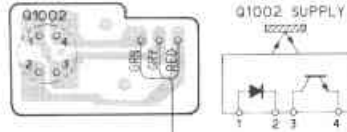
[MD SW (A) BOARD]

S1002 METAL (METAL OFF)
S1001-1 REC. PROOF (UFWI)
S1001-2 CASSETTE DET.

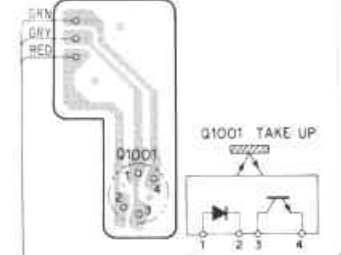
[MD SW (B) BOARD]

S1003-1 REC. PROOF (RVS)
S1003-2 CrO2 70μ / 120μ (120μ ON)

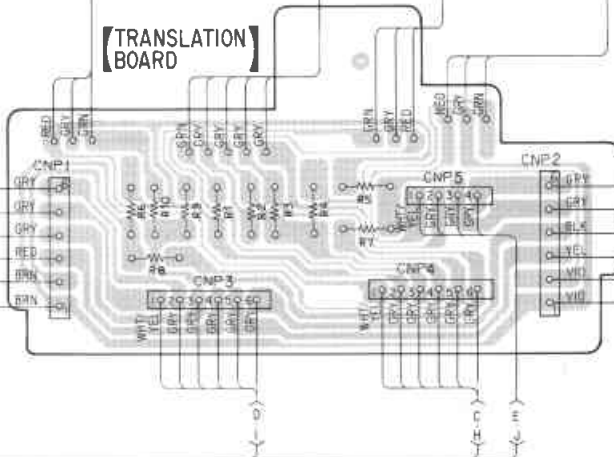
[PHOTO (A) BOARD]



[PHOTO (B) BOARD]



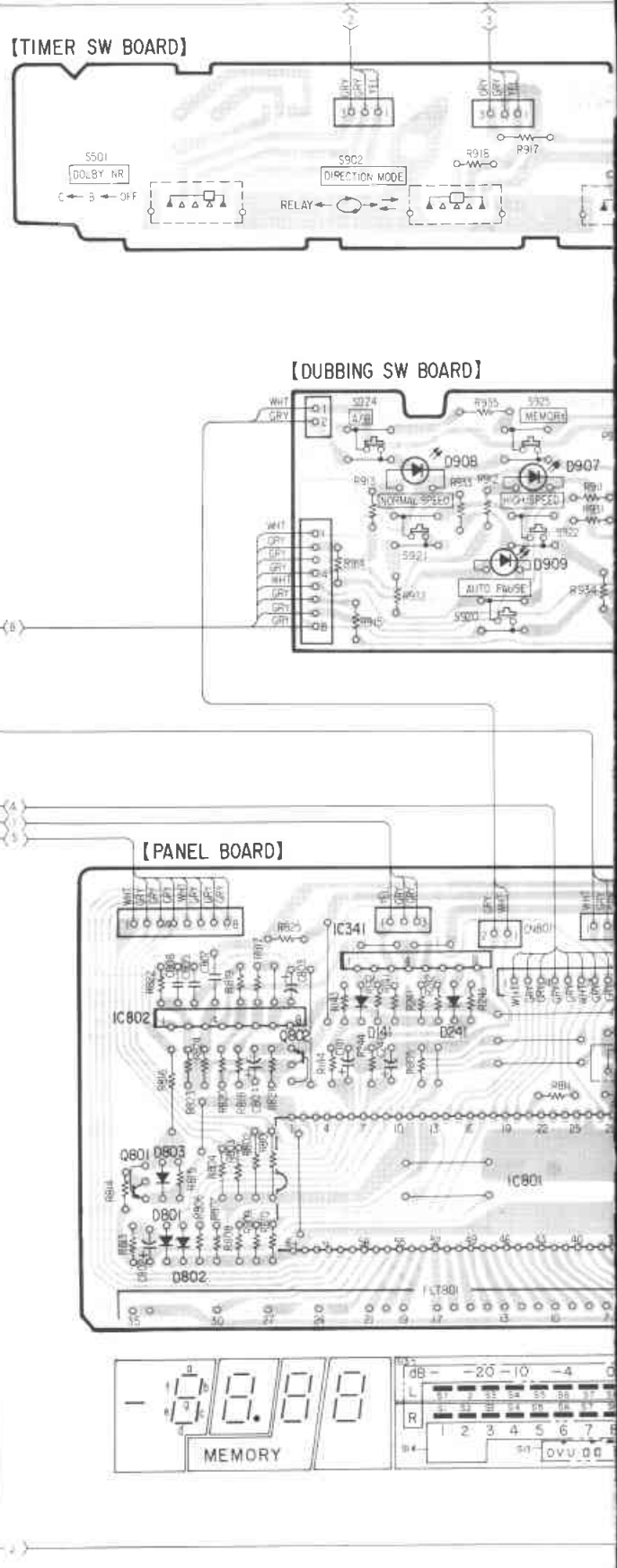
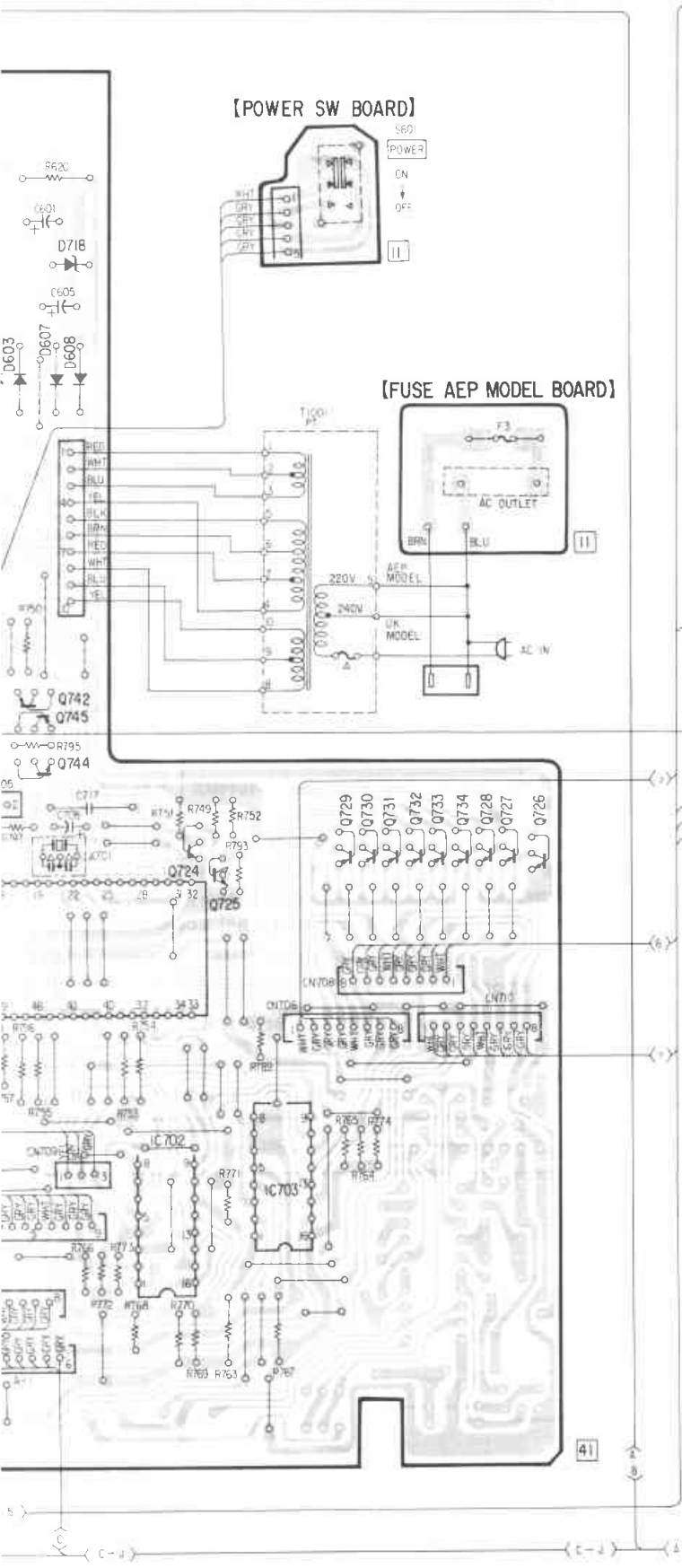
[TRANSLATION BOARD]



M1001 CAPSTAN MOTOR

DECK A: A-E
DECK B: F-J

16 17 18 19 20 21 22 23



8

9

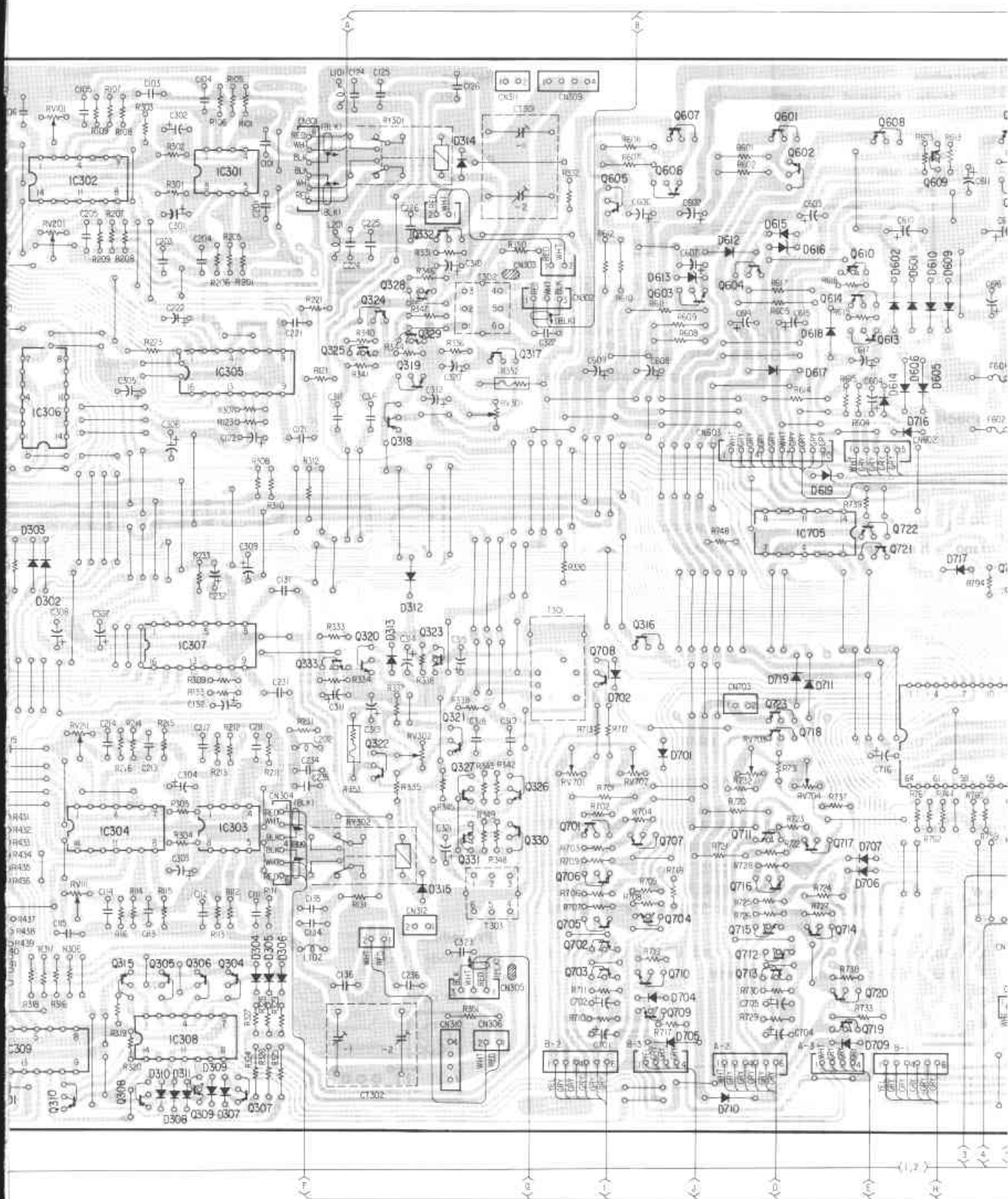
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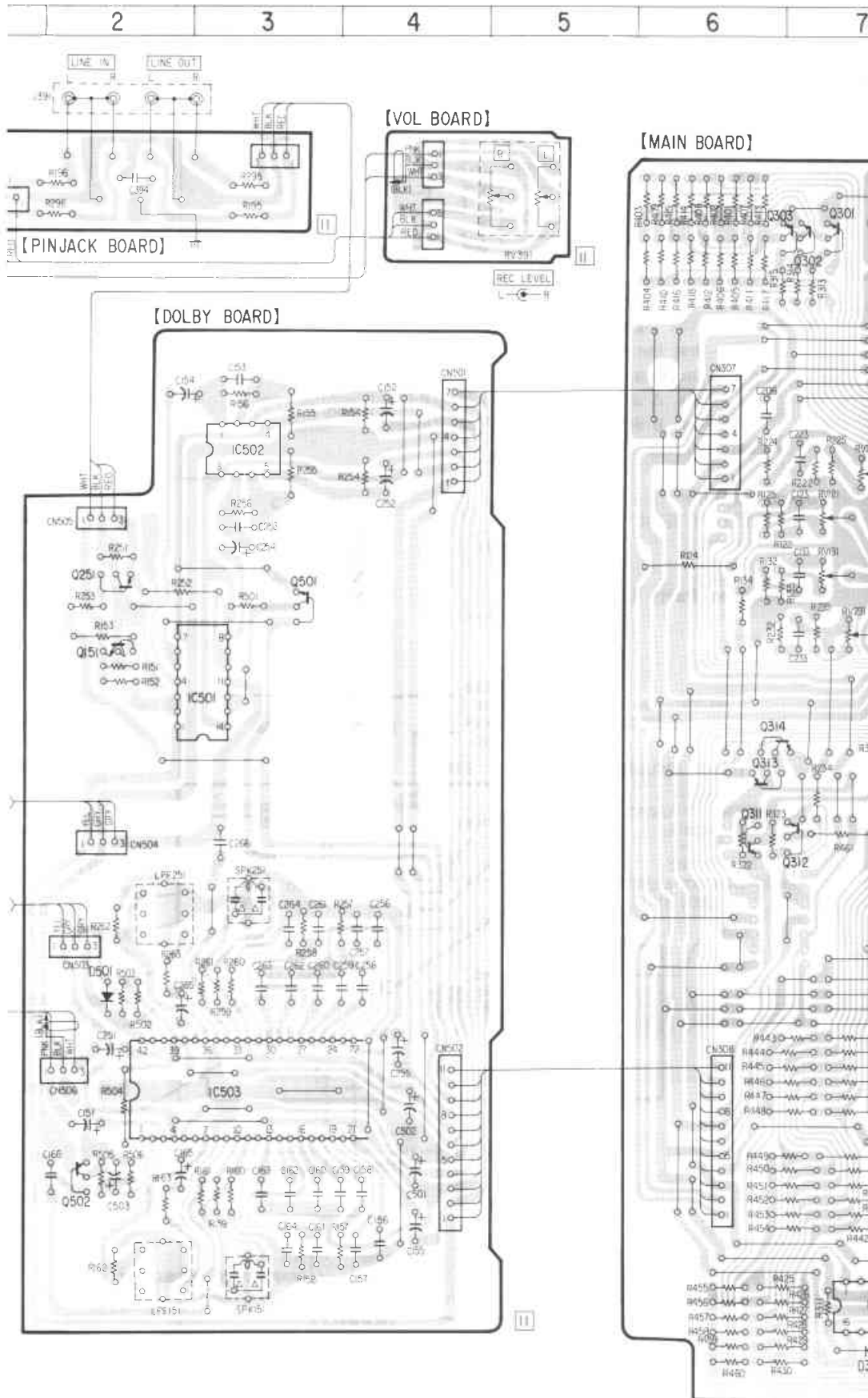
13

14



WIRING BOARD

● See page 9 for semiconductor lead layouts.



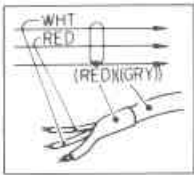
SECTION 3
DIAGRAMS

3-1. PRIN

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
IC301	E-3	Q611	B-15	D601	C-14
IC302	B-9	Q612	B-15	D602	C-14
IC303	G-9	Q613	C-14	D603	C-15
IC304	G-8	Q614	C-14	D604	C-15
IC305	D-9	Q701	G-12	D605	D-14
IC306	D-7	Q702	H-12	D606	D-14
IC307	F-9	Q703	I-12	D607	C-16
IC308	F-8	Q704	H-12	D608	C-16
IC341	G-22	Q705	H-12	D609	C-14
IC501	E-3	Q706	H-12	D610	C-14
IC502	C-3	Q707	G-12	D611	C-15
IC503	H-3	Q708	F-12	D612	C-13
		Q709	I-12	D613	C-12
		Q710	I-12	D614	D-14
		Q711	H-13	D615	C-13
Q151	E-2	Q712	H-13	D616	C-13
Q251	D-2	Q713	I-13	D617	D-13
Q301	B-7	Q714	H-13	D618	C-14
Q302	B-7	Q715	H-13	D619	E-13
Q303	B-6	Q716	H-13	D701	G-12
Q304	I-9				
Q305	I-8	Q717	H-13	D702	F-12
Q306	I-9	Q718	G-13	D704	I-12
Q307	J-9	Q719	I-14	D705	I-12
Q308	J-8	Q720	I-14	D706	H-14
		Q721	E-14	D707	H-14
Q309	I-9				
Q310	J-8	Q722	E-14	D709	I-14
Q313	F-6	Q724	F-15	D710	J-13
Q314	E-6	Q726	F-18	D711	F-13
Q315	I-8	Q727	F-18	D716	D-14
		Q728	F-18	D717	E-15
Q316	F-12				
Q317	D-11	Q729	F-17	D718	C-16
Q318	D-10	Q730	F-17	D719	F-13
Q319	D-10	Q731	F-18	D801	H-20
Q320	F-10	Q732	F-18	D802	H-20
		Q734	F-18	D803	H-20
Q321	G-11				
Q322	F-10	Q742	F-15	D901	B-28
Q323	F-10	Q743	F-15	D902	B-29
Q324	C-10	Q744	F-15	D903	C-28
Q325	D-10	Q745	E-15	D904	C-20
		Q801	H-20	D905	D-27
Q326	G-11	Q802	G-21		
Q327	G-11			D906	D-23
Q328	C-10			D907	D-23
Q329	D-10			D908	D-22
Q330	G-11	D141	G-22	D909	D-22
		D241	G-22	D910	D-23
Q331	G-11	D301	I-7	D911	B-27
Q332	C-11	D302	E-7		
Q333	F-10	D303	E-7		
Q501	D-3				
Q502	H-2	D304	I-9		
		D305	I-9		
Q601	B-13	D306	I-9		
Q602	B-13	D307	I-9		
Q603	C-12	D309	I-9		
Q604	C-13				
Q605	B-12	D310	I-8		
		D311	I-8		
Q606	B-12	D314	B-11		
Q607	B-12	D315	H-10		
Q608	B-14	D501	G-2		
Q609	C-14				
Q610	C-14				

Note:

- Color code or sleeving over the end of the jacket.

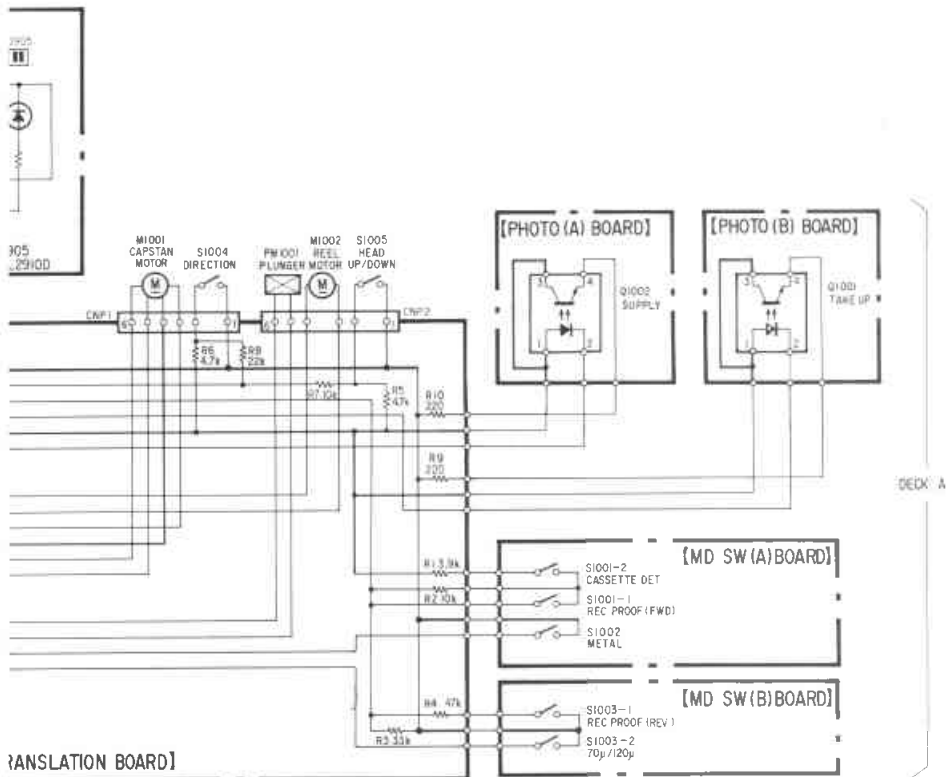


- ○ — : parts extracted from the component side.

A
B
C
D
E
F
G
H
I
J

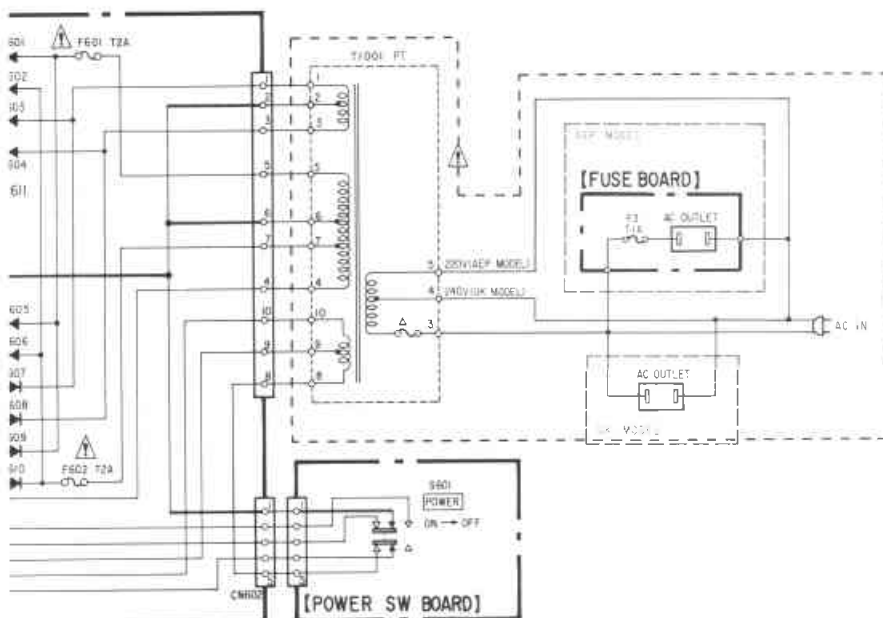
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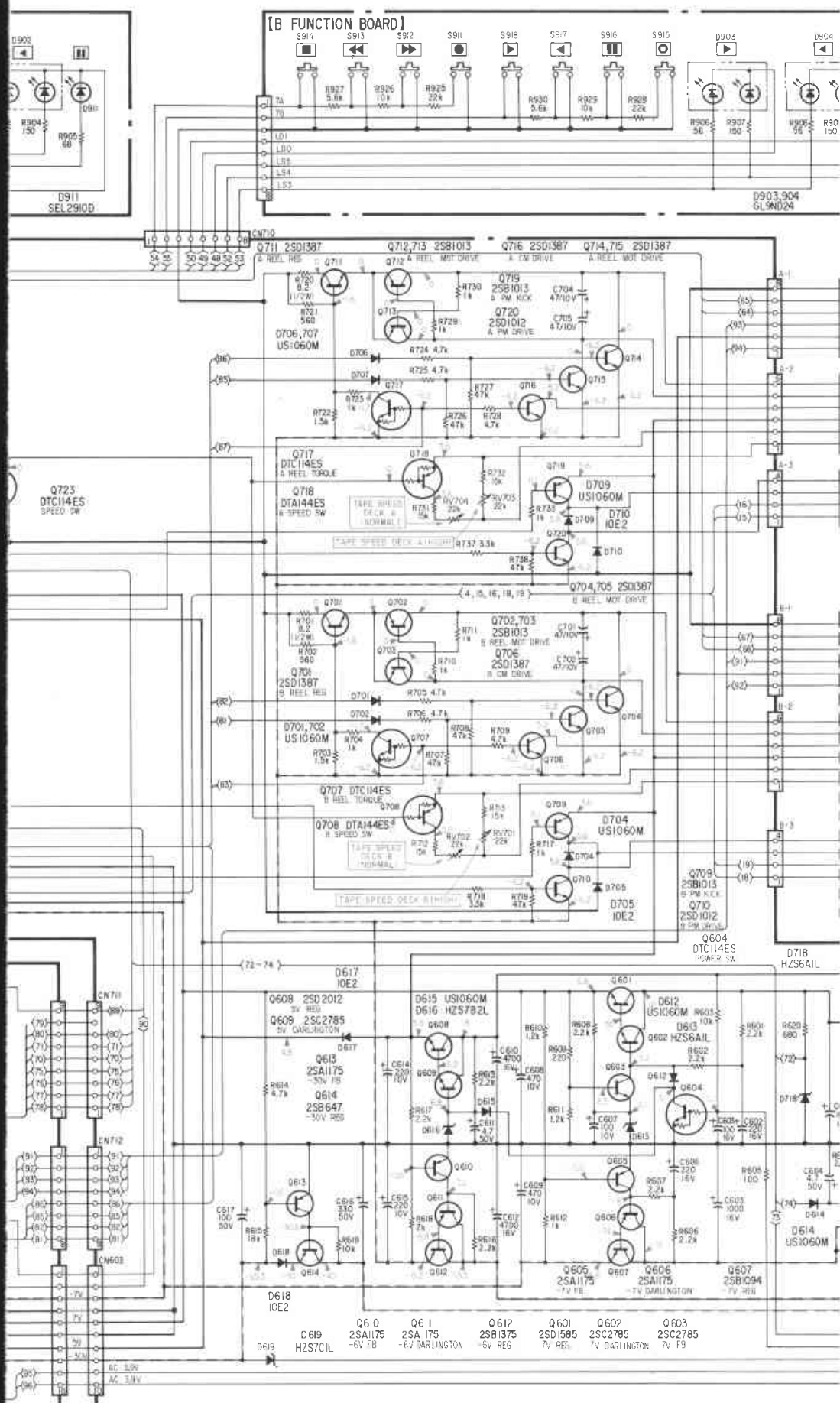
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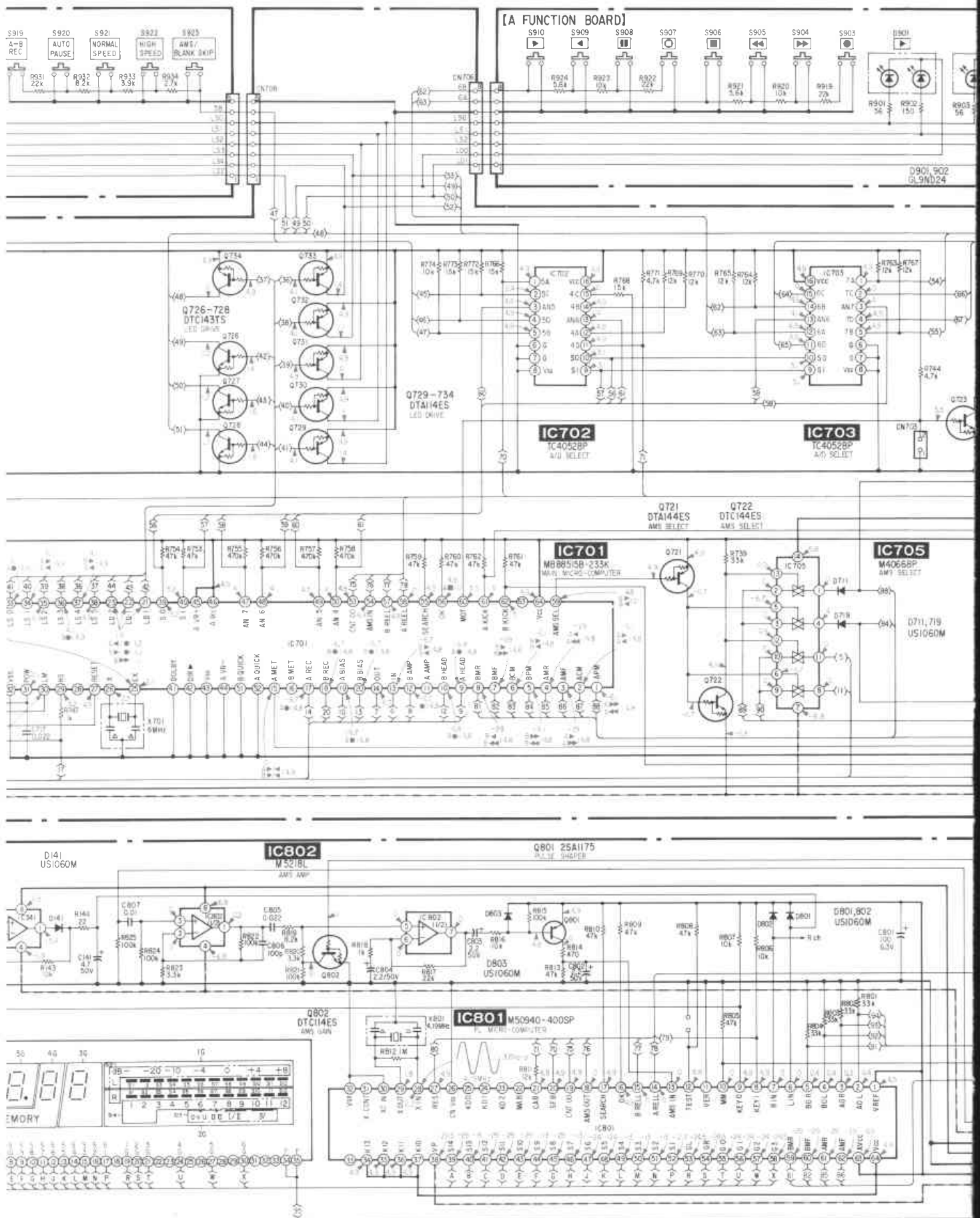
SAME AS THE DECK A

DECK B

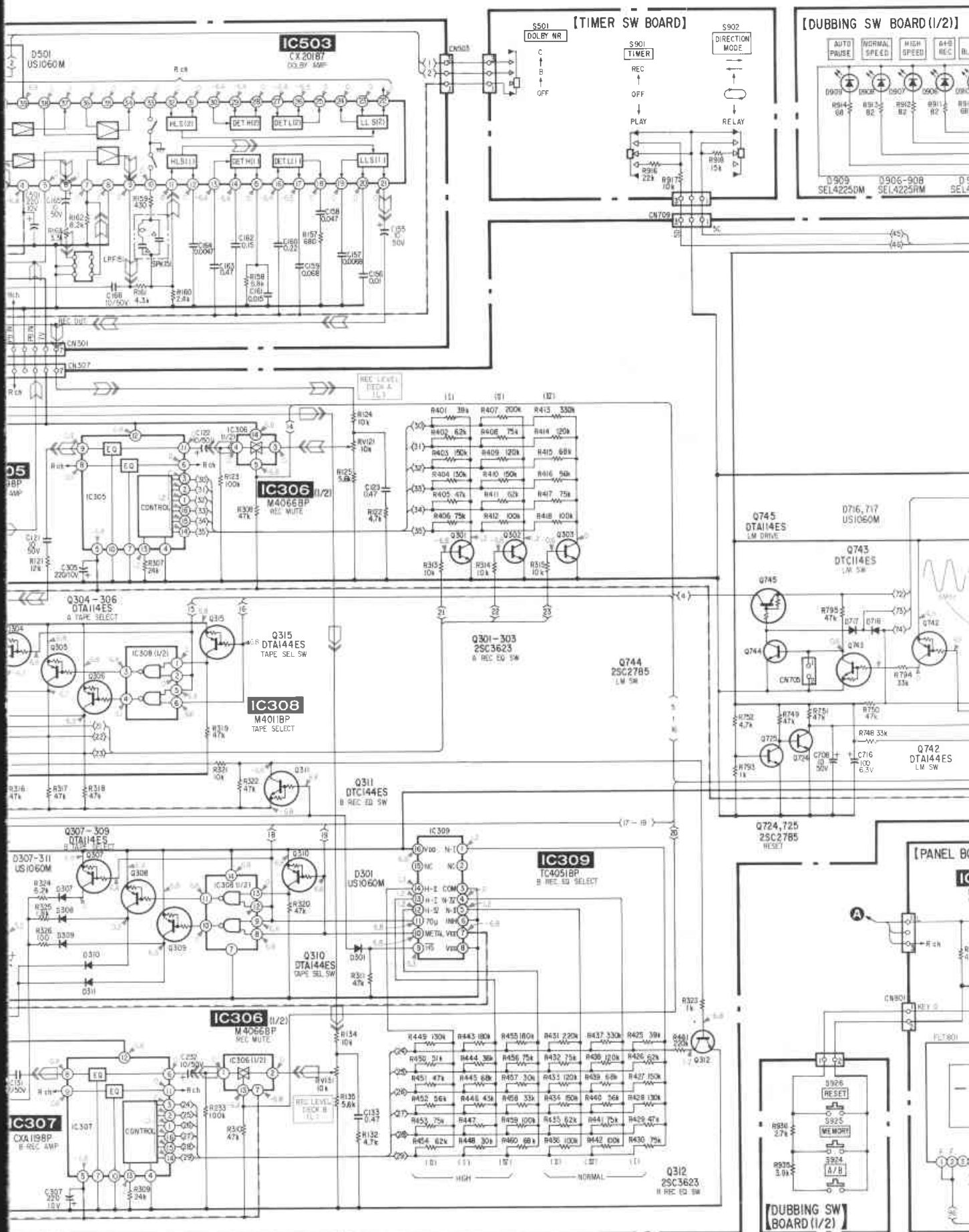




16 17 18 19 20 21 22 23

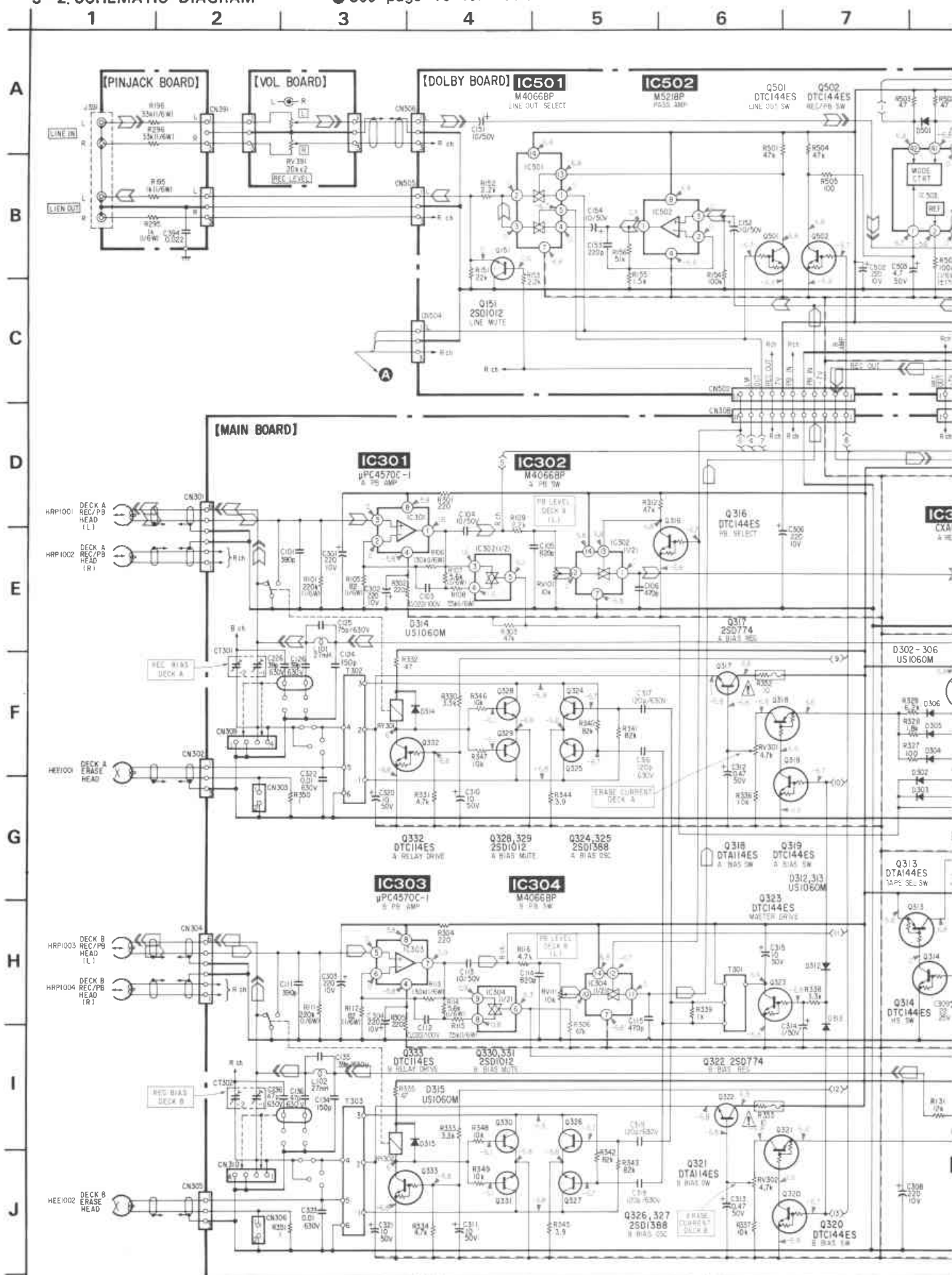


8 9 10 11 12 13 14 15



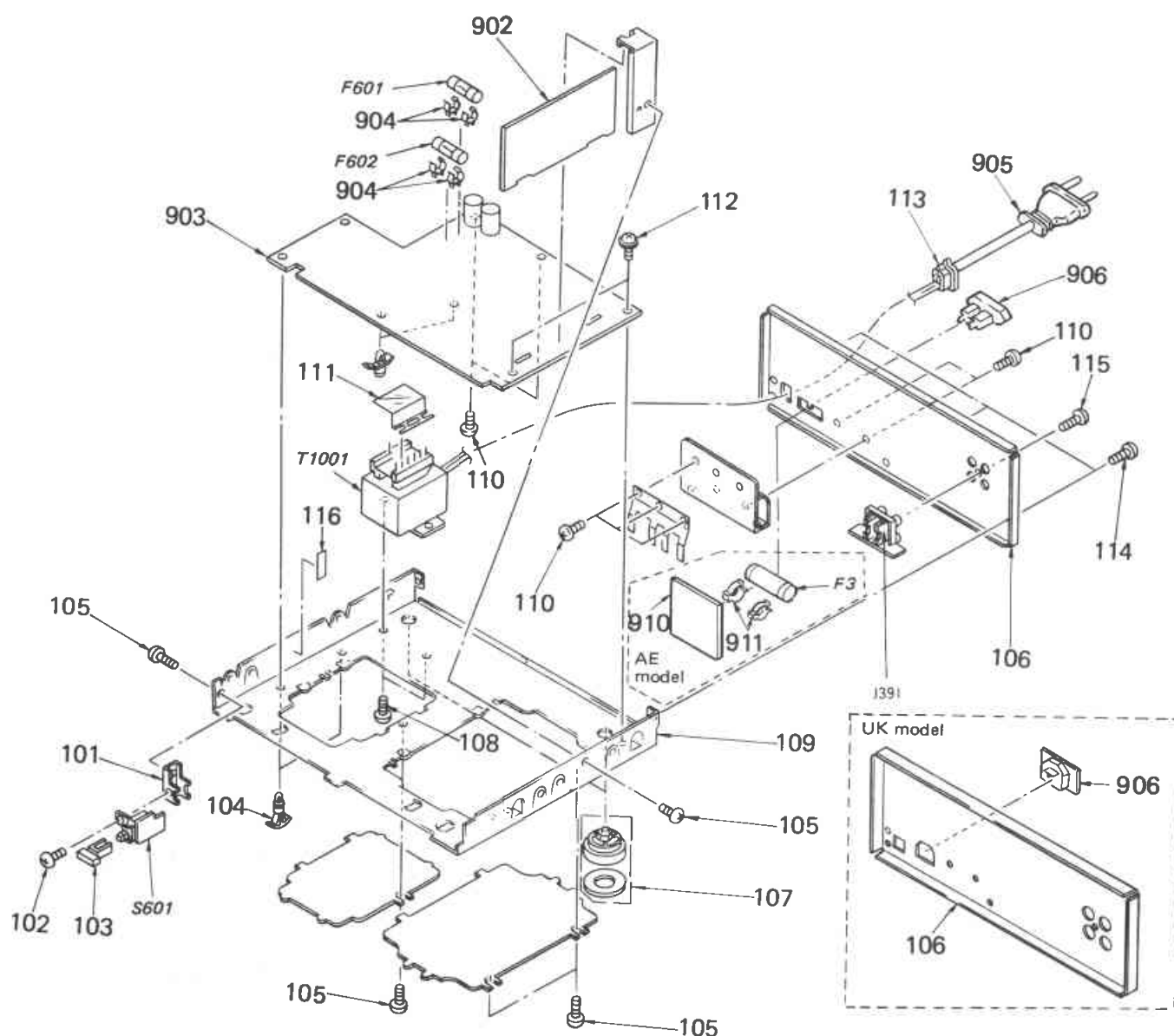
3-2. SCHEMATIC DIAGRAM

● See page 19 for note.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	*3-391-180-01	ARM, EJECT		188	*X-3391-162-1	(B DECK)...BKT ASSY, DAMPER	
152	3-391-185-01	LEVER, STOP			*X-3391-166-1	(A DECK)...BKT ASSY, DAMPER	
153	X-3391-165-1	(B DECK)...ARM ASSY, EJECT		189	7-685-104-19	SCREW +P 2X6 TYPE2 SLIT	
	X-3391-167-1	(A DECK)...ARM ASSY, EJECT		190	3-391-169-01	SPACER, SQUER	
154	3-391-183-01	SHAFT (B), HOLDER FULCRUM		191	*3-391-130-01	BRACKET (B), F/W	
155	7-621-773-86	SCREW +PTT 2.6X4 (S)		192	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
156	7-624-105-04	STOP RING 2.3, TYPE -E		193	7-682-546-04	SCREW +PTT 3X5 (S)	
157	3-391-181-01	SP, LEVER RETURN		194	7-621-759-25	+PSW, 2.6X4	
158	X-3391-108-1	BRAKE ASSY		195	X-3391-146-1	ARM ASSY, PLAY	
159	7-685-106-19	SCREW +P 2X10 TYPE2 SLIT		196	*3-392-701-01	ARM, DIRECTION	
160	3-391-120-01	CALLOR		197	3-391-199-01	SPRING	
161	3-391-121-01	ARM, EJECT SAFETY		198	3-391-133-01	SPRING	
162	3-391-122-01	SPRING (A)		199	3-391-177-01	SPRING	
163	7-685-107-19	SCREW +P 2X12 TYPE2 SLIT		200	7-628-254-10	SCREW +PS 2.6X6	
164	X-3391-105-1	PINCH ROLLER ASSY		201	3-391-124-01	SPRING	
165	3-391-116-01	SPRING (LEFT)		202	3-392-702-01	LEVER	
166	*3-392-706-01	BASE, HEAD		203	3-391-196-01	LEVER	
167	7-685-782-01	SCREW +PTT 2X5 (S)		204	3-392-703-01	LEVER	
168	3-391-114-01	SPRING		205	3-391-139-01	SPRING	
169	3-701-436-11	WASHER, 1.6 POLYETHYLENE		206	3-391-117-01	SEAL, WASHER OIL	
170	X-3391-142-1	REEL ASSY, T		207	X-3391-111-1	IDLER ASSY	
171	3-701-437-11	WASHER		208	X-3391-129-1	ASSY F/W	
172	X-3391-104-1	PINCH ROLLER ASSY		209	3-391-134-01	BELT, MAIN	
173	3-391-115-01	SPRING (RIGHT)		210	7-624-104-04	STOP RING 2.0, TYPE -E	
174	3-391-119-01	SEAL, WASHER OIL		211	*3-392-707-01	SOLENOID (ARBOR)	
175	X-3391-110-1	CHASSIS		212	*X-3391-168-1	HEAD ASSY, ROTARY	
176	3-391-137-01	HOLDER, REED		907	*3-391-166-01	WIRE, JUMPER, 4 ARBOR	
177	*X-3391-164-1	CASSETTE ASSY, SUPPORT		908	*3-391-173-01	PANEL, HEAD RELAY	
178	3-391-184-01	SPRING		909	*3-392-704-01	PRINTED CIRCUIT BOARD, CONNECTO	
179	X-3391-112-1	PLATE, S		M1001	X-3391-155-1	MOTOR ASSY	
180	3-391-143-01	CAP		M1002	X-3391-156-1	MOTOR ASSY	
181	3-391-127-01	SPRING		PM1001	1-454-440-11	SOLENOID, PLUNGER	
182	3-391-126-01	CAP		Q1001	1-807-509-11	PHOTO SENSOR	
183	3-701-438-11	WASHER, 2.5		Q1002	1-807-509-11	PHOTO SENSOR	
184	X-3391-133-1	ASSY F/W		S1001	1-570-720-11	SWITCH, PUSH (1 KEY)	
185	3-391-197-01	GEAR (I), CAM		S1002	1-570-723-11	SWITCH, PUSH (1 KEY)	
186	X-3391-151-1	DAMPER ASSY		S1003	1-570-720-11	SWITCH, PUSH (1 KEY)	
187	7-621-255-15	SCREW +PTT 2X3 (S)		S1004	1-570-721-11	SWITCH, LEAF	
				S1005	1-570-721-11	SWITCH, LEAF	

(3)

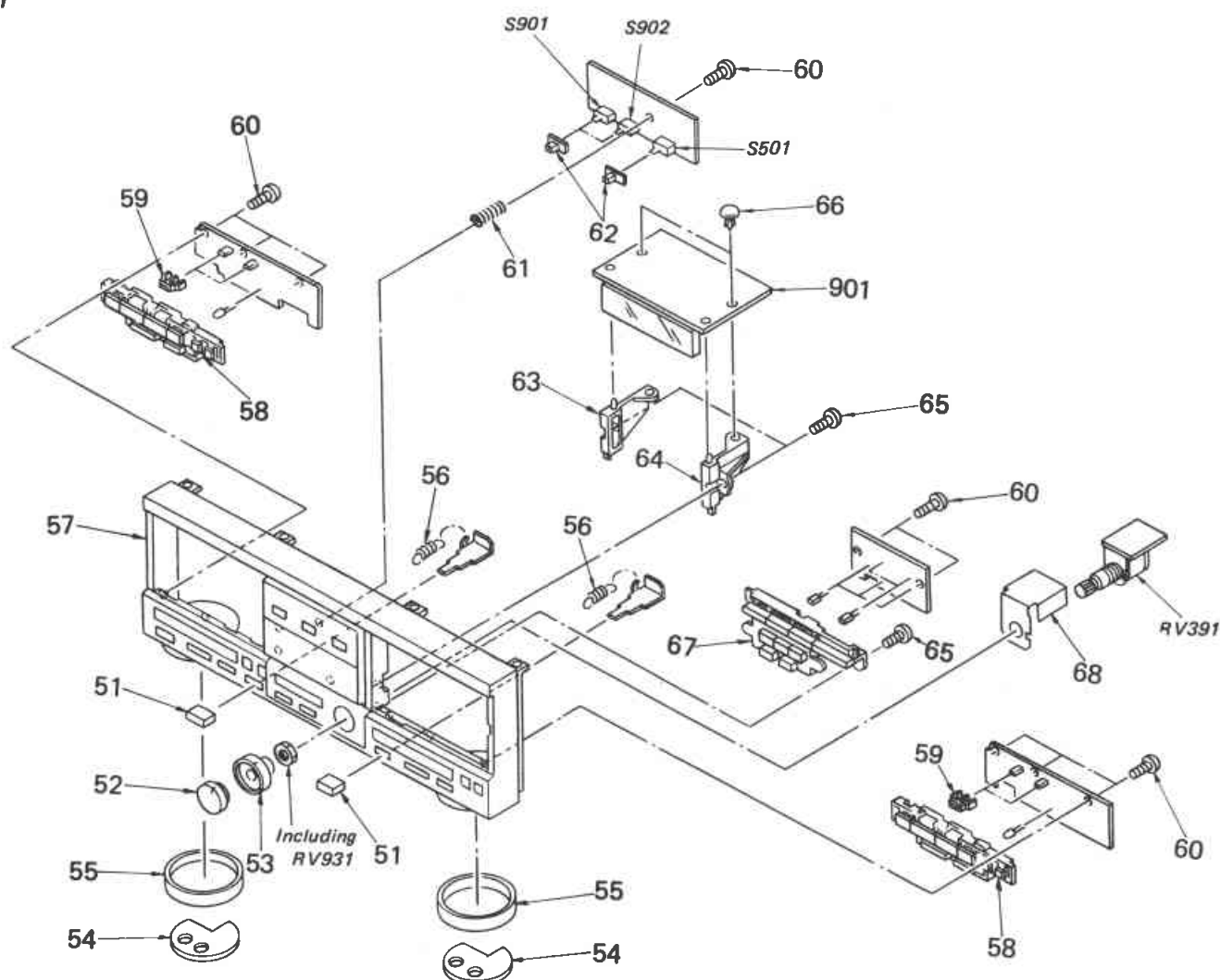


No.	Part No.	Description
101	*3-343-632-01	BRACKET (PS)
102	7-621-773-86	SCREW +BVTT 2.6X4 (S)
103	3-343-622-01	BUTTON (POWER SW)
104	3-704-198-21	SUPPORT, PC
105	7-685-871-01	SCREW +BVTT 3X6 (S)
106	*3-343-646-12	(UK)...PANEL, BACK
	*3-343-646-21	(AE1)...PANEL, BACK
	*3-343-646-31	(AE2)...PANEL, BACK
107	X-4922-001-1	FOOT ASSY
108	7-685-872-01	SCREW +BVTT 3X8
109	*4-921-903-91	CHASSIS
110	7-682-547-09	SCREW +BVTT 3X6 (S)
111	*3-337-136-01	COVER, TRANSFORMER SAFETY
112	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6
113	*3-703-244-00	BUSHING (2104), CORD
114	7-685-872-09	SCREW +BVTT 3X8
115	7-621-849-00	SCREW, TAPPING
116	3-831-441-XX	CUSHION (B), CABINET

No.	Part No.	Description	Remarks
902	*A-2095-638-A	MOUNTED PCB, DOLBY	
903	*A-2056-395-A	MOUNTED PCB, MAIN	
904	1-533-162-00	HOLDER, FUSE	
905	△1-555-795-00	(AEP)...CORD, POWER, EULO PLUG	
	△1-556-562-11	(UK)...CORD, POWER	
906	△1-526-751-11	(UK)...OUTLET, AC	
	△1-526-794-11	(AEP)...OUTLET, AC	
910	*1-626-652-11	PC BOARD, FUSE	
911	1-533-131-00	(AEP)...HOLDER FUSE	
F3	△1-532-078-00	(AEP)...FUSE, TIME-LAG (1A)	
F601	△1-532-203-00	FUSE, TIME-LAG (2A)	
F602	△1-532-203-00	FUSE, TIME-LAG (2A)	
J391	1-565-258-11	JACK, PIN 4P (LINE IN/LINE OUT)	
S601	1-552-931-00	SWITCH, PUSH (POWER)	
T1001	△1-449-214-11	TRANSFORMER, POWER	

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

(2)



No.	Part No.	Description
51	3-323-410-31	BUTTON, EJECT
52	3-343-633-01	KNOB (R-21)
53	3-343-634-01	KNOB (L-23)
54	3-343-605-01	FELT
55	4-921-918-11	PLATE, ORNAMENTAL
56	3-662-752-21	SPRING, TENSION
57	X-3343-608-1	PANEL ASSY, FRONT
58	X-3343-606-1	BUTTON (A) ASSY
59	*3-337-108-01	HOLDER, LED
60	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S
61	3-554-017-00	SPRING, COMPRESSION
62	3-343-612-01	KNOB (SLIDE)

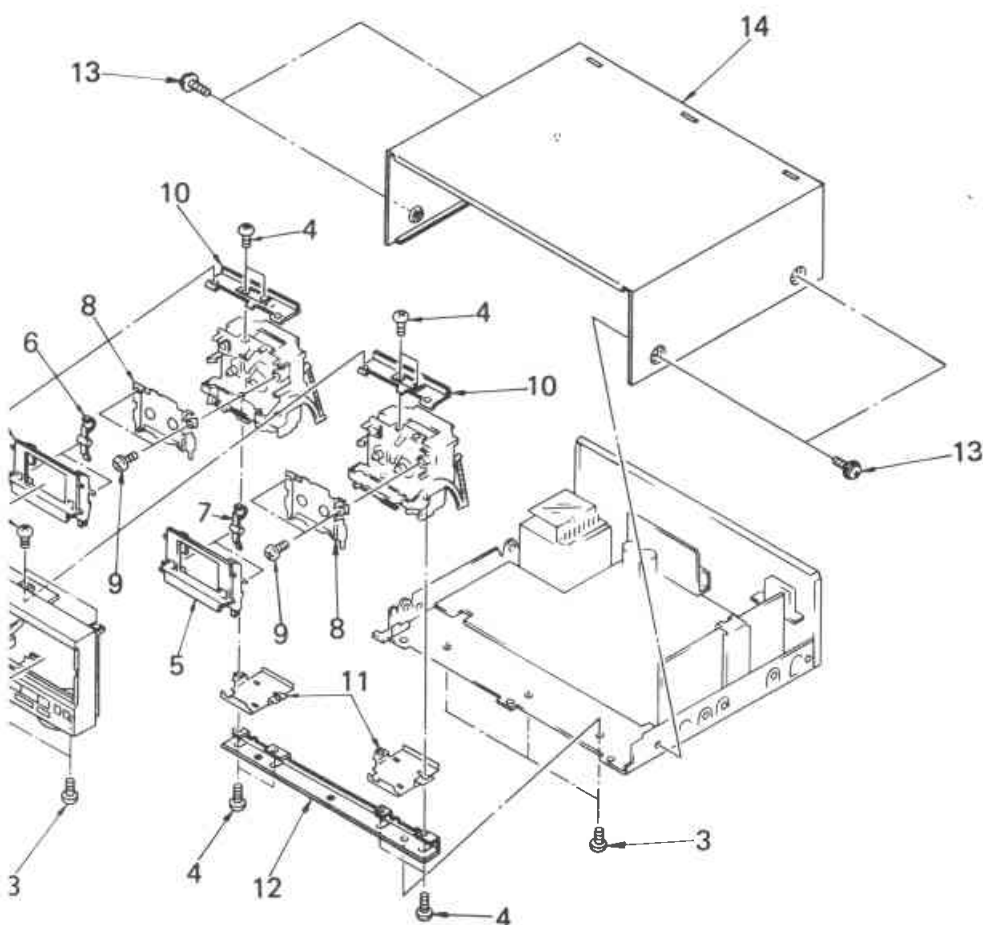
Remarks	No.	Part No.	Description	Remarks
	63	*3-343-608-01	HOLDER (LEFT), FL TUBE	
	64	*3-343-607-01	HOLDER (RIGHT), FL TUBE	
	65	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
	66	4-812-134-00	RIVET NYLON, 3.5	
	67	3-343-644-01	BUTTON (B)	
	68	*3-343-636-01	PLATE, SHIELD	
	901	*1-625-955-11	(AEP),.PC BOARD, PANEL	
	RV391	1-237-888-11	RES, VAR, CRBON 20K/20K (REC LEVEL)	
	S501	1-571-452-11	SWITCH, SLIDE (DOLBY NR)	
	S901	1-571-452-11	SWITCH, SLIDE (TIMER)	
	S902	1-571-452-11	SWITCH, SLIDE (DIRECTION MODE)	

SECTION 4

EXPLODED VIEW AND PARTS LIST

ed since
routine
: antici-

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



	<u>Remarks</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
Y, CASSETTE		8	*3-332-547-01	PLATE, ORNAMENTAL	
Y, CASSETTE		9	7-621-772-01	SCREW +B 2X3	
3X8		10	*3-343-606-01	REINFORCEMENT	
3X6 (S)		11	*3-343-658-01	TC800269HIELD, HEAD	
, CASSETTE		12	*3-343-614-01	BRACKET (MD)	
T)		13	4-886-821-01	SCREW, M3 CASE	
HT)		14	4-919-379-01	CASE	

Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.
- Components for right channel have same values as for left C232 and R233 channel. Reference numbers are coded from 200 without.
- $\triangle$: internal component.
-  : fusible resistor.

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

• Switch

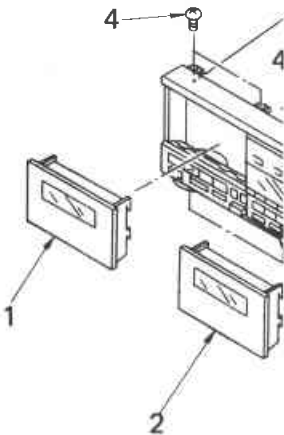
Ref. No.	Switch	Position
S501	DOLBY NR	OFF
S601	POWER	ON
S901	TIMER	OFF
S902	DIRECTION MODE	
S903	A REC	OFF
S904	A FF	OFF
S905	A REW	OFF
S906	A STOP	OFF
S907	A REC MUTE	OFF
S908	A PAUSE	OFF
S909	A REV	OFF
S910	A FWD	OFF
S911	B REC	OFF
S912	B FF	OFF
S913	B REW	OFF
S914	B STOP	OFF
S915	B REC MUTE	OFF
S916	B PAUSE	OFF
S917	B REV	OFF
S918	B FWD	OFF
S919	A+B REC	OFF
S920	AUTO PAUSE	OFF
S921	NORMAL SPEED	OFF
S922	HIGH SPEED	OFF
S923	AMS/BLANK SKIP	OFF
S924	A/B	A
S925	MEMORY	OFF
S926	RESET	OFF
S1001-1	REC PROOF (FWD)	OFF
S1001-2	CASSETTE DET	OFF
S1002	METAL	OFF
S1003-1	REC PROOF (RVS)	OFF
S1003-2	70 μ /120 μ	OFF (70 μ)
S1004	DIRECTION	OFF
S1005	HEAD UP/DOWN	OFF

-  : B+ Line
-  : B- Line
-  : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
-  : FWD  : REV  : STOP
-  : FF  : REW  : REC
- Voltages are taken with a VOM (50 k Ω /V). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path:
 -  : PB (DECK A)
 -  : REC (DECK A)
 -  : PB (DECK B)
 -  : REC (DECK B)

NOTE:

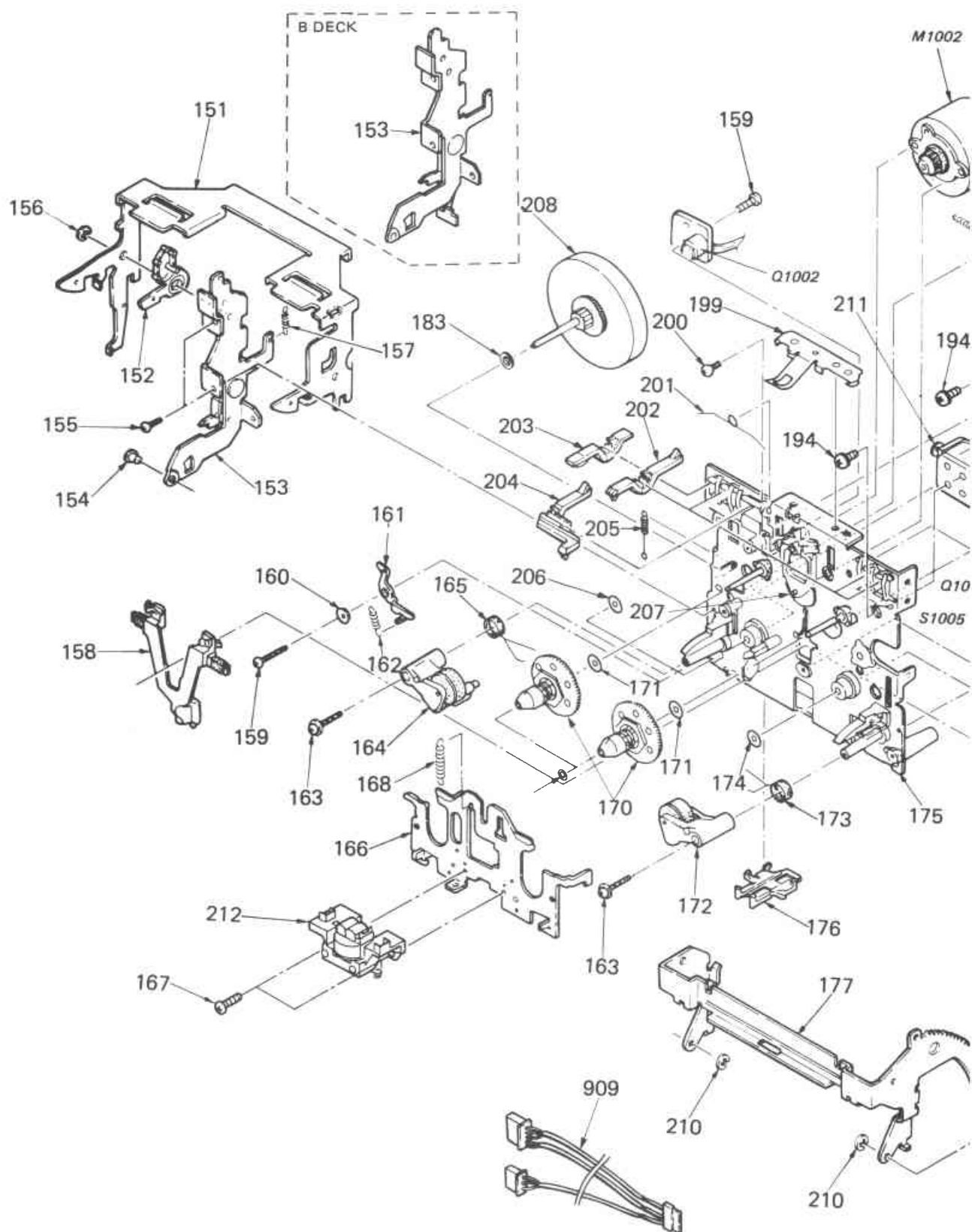
- The mechanical parts with number in the exploded view are supplied.
- The construction parts of part are indicated with a number in the remark column.
- Items marked "★" are not they are seldom required service. Some delay should be expected when ordering these items.

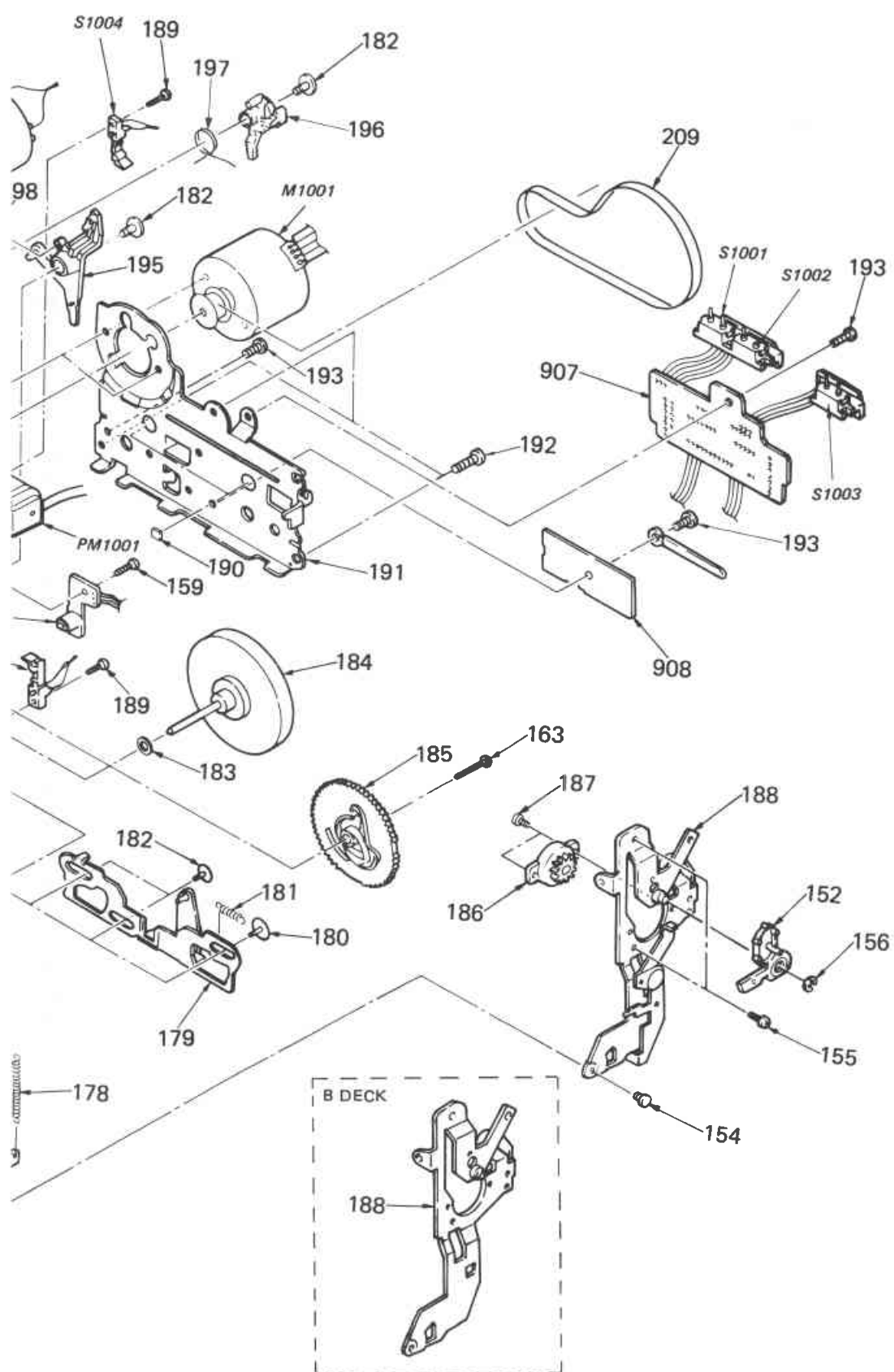
(1)



No.	Part No.	Description
1	A-2169-132-A	LID (A)
2	A-2169-133-A	LID (B)
3	7-685-872-01	SCREW
4	7-685-871-01	SCREW
5	X-3332-448-1	HOLDER
6	3-307-371-00	SPRING
7	3-307-372-00	SPRING

(4) MD A DECK: TCM-CMAY B-25
B DECK: TCM-CMAY B-24





SECTION 5 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

SEMICONDUCTORSIn 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.

Ref.No.	Part No.	Description			
901	*1-625-955-11	(AEP)...PC BOARD, PANEL			
902	*A-2095-638-A	MOUNTED PCB, DOLBY			
903	*A-2056-395-A	MOUNTED PCB, MAIN			
904	1-533-162-00	HOLDER, FUSE			
905	Δ 1-555-795-00	(AEP)...CORD, POWER, EULO PLUG			
	Δ 1-556-562-11	(UK)...CORD, POWER			
906	Δ 1-526-751-11	(UK)...OUTLET, AC			
	Δ 1-526-794-11	(AEP)...OUTLET, AC			
907	*3-391-166-01	WIRE, JUMPER, 4 ARBOR			
908	*3-391-173-01	PANEL, HEAD RELAY			
909	*3-392-704-01	PRINTED CIRCUIT BOARD, CONNECTO			
910	*1-626-652-11	PC BOARD, FUSE			
911	1-533-131-00	(AEP)...HOLDER FUSE			
C101	1-162-289-31	CERAMIC	390PF	10%	50V
C103	1-130-973-00	FILM	0.022MF	5%	100V
C104	1-124-657-00	ELECT	10MF	20%	50V
C105	1-162-293-31	CERAMIC	820PF	10%	50V
C106	1-162-290-31	CERAMIC	470PF	10%	50V
C111	1-162-289-31	CERAMIC	390PF	10%	50V
C112	1-130-973-00	FILM	0.022MF	5%	100V
C113	1-124-657-00	ELECT	10MF	20%	50V
C114	1-162-293-31	CERAMIC	820PF	10%	50V
C115	1-162-290-31	CERAMIC	470PF	10%	50V
C121	1-124-657-00	ELECT	10MF	20%	50V
C122	1-123-875-11	ELECT	10MF	20%	50V
C123	1-136-173-00	FILM	0.47MF	5%	50V
C124	1-162-284-31	CERAMIC	150PF	10%	50V
C125	1-136-273-91	FILM	75PF	5%	630V
C126	1-136-440-11	FILM	39PF	5%	630V
C131	1-124-657-00	ELECT	10MF	20%	50V
C132	1-123-875-11	ELECT	10MF	20%	50V
C133	1-136-173-00	FILM	0.47MF	5%	50V
C134	1-162-284-31	CERAMIC	150PF	10%	50V
C135	1-136-273-91	FILM	75PF	5%	630V
C136	1-136-440-11	FILM	39PF	5%	630V
C141	1-124-927-11	ELECT	4.7MF	20%	50V
C151	1-123-875-11	ELECT	10MF	20%	50V
C152	1-123-875-11	ELECT	10MF	20%	50V
C153	1-162-286-31	CERAMIC	220PF	10%	50V
C154	1-123-875-11	ELECT	10MF	20%	50V
C155	1-123-875-11	ELECT	10MF	20%	50V
C156	1-136-153-00	FILM	0.01MF	5%	50V
C157	1-130-481-00	MYLAR	0.0068MF	5%	50V
C158	1-136-161-00	FILM	0.047MF	5%	50V
C159	1-136-163-00	FILM	0.068MF	5%	50V
C160	1-136-169-00	FILM	0.22MF	5%	50V

Ref.No.	Part No.	Description			
C161	1-136-155-00	FILM	0.015MF	5%	50V
C162	1-136-167-00	FILM	0.15MF	5%	50V
C163	1-136-173-00	FILM	0.47MF	5%	50V
C164	1-130-479-00	MYLAR	0.0047MF	5%	50V
C165	1-123-875-11	ELECT	10MF	20%	50V
C166	1-124-657-00	ELECT	10MF	20%	50V
C201	1-162-289-31	CERAMIC	390PF	10%	50V
C203	1-130-973-00	FILM	0.022MF	5%	100V
C204	1-124-657-00	ELECT	10MF	20%	50V
C205	1-162-293-31	CERAMIC	820PF	10%	50V
C206	1-162-290-31	CERAMIC	470PF	10%	50V
C211	1-162-289-31	CERAMIC	390PF	10%	50V
C212	1-130-973-00	FILM	0.022MF	5%	100V
C213	1-124-657-00	ELECT	10MF	20%	50V
C214	1-162-293-31	CERAMIC	820PF	10%	50V
C215	1-162-290-31	CERAMIC	470PF	10%	50V
C221	1-124-657-00	ELECT	10MF	20%	50V
C222	1-123-875-11	ELECT	10MF	20%	50V
C223	1-136-173-00	FILM	0.47MF	5%	50V
C224	1-162-284-31	CERAMIC	150PF	10%	50V
C225	1-136-273-91	FILM	75PF	5%	630V
C226	1-136-440-11	FILM	39PF	5%	630V
C231	1-124-657-00	ELECT	10MF	20%	50V
C232	1-123-875-11	ELECT	10MF	20%	50V
C233	1-136-173-00	FILM	0.47MF	5%	50V
C234	1-162-284-31	CERAMIC	150PF	10%	50V
C235	1-136-273-91	FILM	75PF	5%	630V
C236	1-136-440-11	FILM	39PF	5%	630V
C241	1-124-927-11	ELECT	4.7MF	20%	50V
C251	1-123-875-11	ELECT	10MF	20%	50V
C252	1-123-875-11	ELECT	10MF	20%	50V
C253	1-162-286-31	CERAMIC	220PF	10%	50V
C254	1-123-875-11	ELECT	10MF	20%	50V
C255	1-123-875-11	ELECT	10MF	20%	50V
C256	1-136-153-00	FILM	0.01MF	5%	50V
C257	1-130-481-00	MYLAR	0.0068MF	5%	50V
C258	1-136-161-00	FILM	0.047MF	5%	50V
C259	1-136-163-00	FILM	0.068MF	5%	50V
C260	1-136-169-00	FILM	0.22MF	5%	50V
C261	1-136-155-00	FILM	0.015MF	5%	50V
C262	1-136-167-00	FILM	0.15MF	5%	50V
C263	1-136-173-00	FILM	0.47MF	5%	50V
C264	1-130-479-00	MYLAR	0.0047MF	5%	50V
C265	1-123-875-11	ELECT	10MF	20%	50V
C266	1-124-657-00	ELECT	10MF	20%	50V

Ref.No.	Part No.	Description			
C301	1-124-444-00	ELECT	220MF	20%	10V
C302	1-124-444-00	ELECT	220MF	20%	10V
C303	1-124-444-00	ELECT	220MF	20%	10V
C304	1-124-444-00	ELECT	220MF	20%	10V
C305	1-124-444-00	ELECT	220MF	20%	10V
C306	1-124-444-00	ELECT	220MF	20%	10V
C307	1-124-444-00	ELECT	220MF	20%	10V
C308	1-124-444-00	ELECT	220MF	20%	10V
C309	1-124-908-11	ELECT	22MF	20%	25V
C310	1-123-875-11	ELECT	10MF	20%	50V
C311	1-123-875-11	ELECT	10MF	20%	50V
C312	1-124-902-00	ELECT	0.47MF	20%	50V
C313	1-124-902-00	ELECT	0.47MF	20%	50V
C314	1-124-499-11	ELECT	1MF	20%	50V
C315	1-123-875-11	ELECT	10MF	20%	50V
C316	1-136-434-11	FILM	120PF	5%	630V
C317	1-136-434-11	FILM	120PF	5%	630V
C318	1-136-434-11	FILM	120PF	5%	630V
C319	1-136-434-11	FILM	120PF	5%	630V
C320	1-123-875-11	ELECT	10MF	20%	50V
C321	1-123-875-11	ELECT	10MF	20%	50V
C322	1-136-601-91	FILM	0.01MF	5%	630V
C323	1-136-601-91	FILM	0.01MF	5%	630V
C394	1-161-494-00	CERAMIC	0.022MF		25V
C501	1-124-444-00	ELECT	220MF	20%	10V
C502	1-124-444-00	ELECT	220MF	20%	10V
C503	1-124-927-11	ELECT	4.7MF	20%	50V
C601	1-124-360-00	ELECT	1000MF	20%	16V
C602	1-124-120-11	ELECT	220MF	20%	16V
C603	1-126-101-11	ELECT	100MF	20%	16V
C604	1-124-927-11	ELECT	4.7MF	20%	50V
C605	1-124-360-00	ELECT	1000MF	20%	16V
C606	1-124-120-11	ELECT	220MF	20%	16V
C607	1-124-443-00	ELECT	100MF	20%	10V
C608	1-124-472-11	ELECT	470MF	20%	10V
C609	1-124-472-11	ELECT	470MF	20%	10V
C610	1-124-898-11	ELECT	4700MF	20%	16V
C611	1-124-927-11	ELECT	4.7MF	20%	50V
C612	1-124-898-11	ELECT	4700MF	20%	16V
C614	1-124-444-00	ELECT	220MF	20%	10V
C615	1-124-444-00	ELECT	220MF	20%	10V
C616	1-124-912-11	ELECT	330MF	20%	50V
C617	1-124-122-11	ELECT	100MF	20%	50V
C701	1-124-446-11	ELECT	47MF	20%	10V
C702	1-124-446-11	ELECT	47MF	20%	10V
C704	1-124-446-11	ELECT	47MF	20%	10V
C705	1-124-446-11	ELECT	47MF	20%	10V
C708	1-123-875-11	ELECT	10MF	20%	50V
C716	1-124-443-00	ELECT	100MF	20%	6.3V
C717	1-161-494-00	CERAMIC	0.022MF		25V
C801	1-124-443-00	ELECT	100MF	20%	6.3V
C802	1-124-925-11	ELECT	2.2MF	20%	50V
C803	1-124-925-11	ELECT	2.2MF	20%	50V
C804	1-124-925-11	ELECT	2.2MF	20%	50V
C805	1-161-494-00	CERAMIC	0.022MF		25V
C806	1-162-282-31	CERAMIC	100PF	10%	50V
C807	1-161-379-00	CERAMIC	0.01MF	30%	16V

Ref.No.	Part No.	Description
CN301	*1-564-509-11	PLUG, CONNECTOR 6P
CN302	*1-564-506-11	PLUG, CONNECTOR 3P
CN303	*1-564-505-21	PLUG, CONNECTOR 2P
CN304	*1-564-509-11	PLUG, CONNECTOR 6P
CN305	*1-564-506-11	PLUG, CONNECTOR 3P
CN306	*1-564-505-21	PLUG, CONNECTOR 2P
CN307	*1-560-338-00	PIN, CONNECTOR 7P
CN308	*1-506-534-11	PIN, CONNECTOR 11P
CN309	*1-564-507-11	PLUG, CONNECTOR 4P
CN310	*1-564-507-11	PLUG, CONNECTOR 4P
CN311	*1-564-505-11	PLUG, CONNECTOR 2P
CN312	*1-564-505-11	PLUG, CONNECTOR 2P
CN391	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CN501	*1-563-658-11	CONNECTOR 7P
CN502	*1-563-662-11	CONNECTOR 11P
CN503	*1-564-337-51	PIN, CONNECTOR 3P
CN504	*1-564-337-61	PIN, CONNECTOR 3P
CN505	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CN506	*1-564-705-21	PIN, CONNECTOR (SMALL TYPE) 3P
CN602	*1-564-339-51	PIN, CONNECTOR 5P
CN603	*1-564-666-11	PIN, CONNECTOR 10P
CN703	*1-564-505-21	PLUG, CONNECTOR 2P
CN705	*1-564-505-21	PLUG, CONNECTOR 2P
CN706	*1-564-342-61	PIN, CONNECTOR 8P
CN708	*1-564-342-11	PIN, CONNECTOR 8P
CN709	*1-564-337-51	PIN, CONNECTOR 3P
CN710	*1-564-342-81	PIN, CONNECTOR 8P
CN711	*1-506-503-11	PIN, CONNECTOR 9P
CN712	*1-564-342-51	PIN, CONNECTOR 8P
CN801	*1-564-336-51	PIN, CONNECTOR 2P
CT301	1-141-225-00	CAP, TUNING, TRIMAR
CT302	1-141-225-00	CAP, TUNING, TRIMAR
D141	8-719-000-26	DIODE US1060M
D241	8-719-000-26	DIODE US1060M
D301	8-719-000-26	DIODE US1060M
D302	8-719-000-26	DIODE US1060M
D303	8-719-000-26	DIODE US1060M
D304	8-719-000-26	DIODE US1060M
D305	8-719-000-26	DIODE US1060M
D306	8-719-000-26	DIODE US1060M
D307	8-719-000-26	DIODE US1060M
D308	8-719-000-26	DIODE US1060M
D309	8-719-000-26	DIODE US1060M
D310	8-719-000-26	DIODE US1060M
D311	8-719-000-26	DIODE US1060M
D312	8-719-000-26	DIODE US1060M
D313	8-719-000-26	DIODE US1060M
D314	8-719-000-26	DIODE US1060M
D315	8-719-000-26	DIODE US1060M
D501	8-719-000-26	DIODE US1060M
D601	8-719-200-77	DIODE 10E2N
D602	8-719-200-77	DIODE 10E2N
D603	8-719-200-77	DIODE 10E2N
D604	8-719-200-77	DIODE 10E2N
D605	8-719-200-77	DIODE 10E2N
D606	8-719-200-77	DIODE 10E2N

Ref.No.	Part No.	Description
D607	8-719-200-77	DIODE 10E2N
D608	8-719-200-77	DIODE 10E2N
D609	8-719-200-77	DIODE 10E2N
D610	8-719-200-77	DIODE 10E2N
D611	8-719-200-77	DIODE 10E2N
D612	8-719-000-26	DIODE US1060M
D613	8-719-933-33	DIODE HZS6A1L
D614	8-719-000-26	DIODE US1060M
D615	8-719-000-26	DIODE US1060M
D616	8-719-933-47	DIODE HZS7B2L
D617	8-719-200-77	DIODE 10E2N
D618	8-719-200-77	DIODE 10E2N
D619	8-719-933-49	DIODE HZS7C1L
D701	8-719-000-26	DIODE US1060M
D702	8-719-000-26	DIODE US1060M
D704	8-719-000-26	DIODE US1060M
D705	8-719-200-77	DIODE 10E2N
D706	8-719-000-26	DIODE US1060M
D707	8-719-000-26	DIODE US1060M
D709	8-719-000-26	DIODE US1060M
D710	8-719-200-77	DIODE 10E2N
D711	8-719-000-26	DIODE US1060M
D716	8-719-000-26	DIODE US1060M
D717	8-719-000-26	DIODE US1060M
D718	8-719-933-33	DIODE HZS6A1L
D719	8-719-000-26	DIODE US1060M
D801	8-719-000-26	DIODE US1060M
D802	8-719-000-26	DIODE US1060M
D803	8-719-000-26	DIODE US1060M
D901	8-719-939-83	DIODE GL9ND24 (A FWD)
D902	8-719-939-83	DIODE GL9ND24 (A REV)
D903	8-719-939-83	DIODE GL9ND24 (B FWD)
D904	8-719-939-83	DIODE GL9ND24 (B REV)
D905	8-719-812-42	DIODE TLY124 (B PAUSE)
D906	8-719-304-90	DIODE SEL4225R (A+B REC)
D907	8-719-304-90	DIODE SEL4225R (HIGH SPEED)
D908	8-719-304-90	DIODE SEL4225R (NORMAL SPEED)
D909	8-719-305-00	DIODE SEL4925D (AUTO PAUSE)
D910	8-719-304-90	DIODE SEL4225R (AMS/BLANK SKIP)
D911	8-719-812-42	DIODE TLY124 (A PAUSE)
F3	△1-532-078-00	{AEP}...FUSE, TIME-LAG (1A)
F601	△1-532-203-00	FUSE, TIME-LAG (2A)
F602	△1-532-203-00	FUSE, TIME-LAG (2A)
FLT801	1-519-445-11	INDICATOR TUBE, FLUORESCENT
IC301	8-759-111-44	IC UPC4570C-1
IC302	8-759-601-43	IC M4066BP
IC303	8-759-111-44	IC UPC4570C-1
IC304	8-759-601-43	IC M4066BP
IC305	8-752-032-60	IC CXA1198P
IC306	8-759-601-43	IC M4066BP
IC307	8-752-032-60	IC CXA1198P
IC308	8-759-601-10	IC M4011BP
IC309	8-759-240-51	IC TC4051BP
IC341	8-759-600-02	IC M5218L
IC501	8-759-601-43	IC M4066BP
IC502	8-759-601-02	IC M5218P
IC503	8-752-018-70	IC CX20187

Ref.No.	Part No.	Description
IC701	8-759-939-76	IC MB88515B-233K
IC702	8-759-240-52	IC TC4052BP
IC703	8-759-240-52	IC TC4052BP
IC705	8-759-601-43	IC M4066BP
IC801	8-759-603-79	IC M50940-400SP
IC802	8-759-600-02	IC M5218L
J391	1-565-258-11	JACK, PIN 4P (LINE IN/LINE OUT)
L101	1-410-780-11	INDUCTOR 27MMH
L102	1-410-780-11	INDUCTOR 27MMH
L201	1-410-780-11	INDUCTOR 27MMH
L202	1-410-780-11	INDUCTOR 27MMH
LPF151	1-231-388-00	FILTER, LOW PASS
LPF251	1-231-388-00	FILTER, LOW PASS
M1001	X-3391-155-1	MOTOR ASSY
M1002	X-3391-156-1	MOTOR ASSY
PM1001	1-454-440-11	SOLENOID, PLUNGER
Q151	8-729-100-13	TRANSISTOR 2SC2001
Q251	8-729-100-13	TRANSISTOR 2SC2001
Q301	8-729-107-77	TRANSISTOR 2SC3623-L
Q302	8-729-107-77	TRANSISTOR 2SC3623-L
Q303	8-729-107-77	TRANSISTOR 2SC3623-L
Q304	8-729-900-61	TRANSISTOR DTA114ES
Q305	8-729-900-61	TRANSISTOR DTA114ES
Q306	8-729-900-61	TRANSISTOR DTA114ES
Q307	8-729-900-61	TRANSISTOR DTA114ES
Q308	8-729-900-61	TRANSISTOR DTA114ES
Q309	8-729-900-61	TRANSISTOR DTA114ES
Q310	8-729-900-65	TRANSISTOR DTA144ES
Q311	8-729-900-89	TRANSISTOR DTC144ES
Q312	8-729-107-77	TRANSISTOR 2SC3623-L
Q313	8-729-900-65	TRANSISTOR DTA144ES
Q314	8-729-900-89	TRANSISTOR DTC144ES
Q315	8-729-900-65	TRANSISTOR DTA144ES
Q316	8-729-900-89	TRANSISTOR DTC144ES
Q317	8-729-177-43	TRANSISTOR 2SD774
Q318	8-729-900-61	TRANSISTOR DTA114ES
Q319	8-729-900-89	TRANSISTOR DTC144ES
Q320	8-729-900-89	TRANSISTOR DTC144ES
Q321	8-729-900-61	TRANSISTOR DTA114ES
Q322	8-729-177-43	TRANSISTOR 2SD774
Q323	8-729-900-80	TRANSISTOR DTC114ES
Q324	8-729-802-34	TRANSISTOR 2SD1388
Q325	8-729-802-34	TRANSISTOR 2SD1388
Q326	8-729-802-34	TRANSISTOR 2SD1388
Q327	8-729-802-34	TRANSISTOR 2SD1388
Q328	8-729-100-13	TRANSISTOR 2SC2001
Q329	8-729-100-13	TRANSISTOR 2SC2001
Q330	8-729-100-13	TRANSISTOR 2SC2001
Q331	8-729-100-13	TRANSISTOR 2SC2001
Q332	8-729-900-80	TRANSISTOR DTC114ES
Q333	8-729-900-80	TRANSISTOR DTC114ES
Q501	8-729-900-89	TRANSISTOR DTC144ES
Q502	8-729-900-89	TRANSISTOR DTC144ES
Q601	8-729-107-25	TRANSISTOR 2SD1585-L
Q602	8-729-600-27	TRANSISTOR 2SC634SP
Q603	8-729-600-27	TRANSISTOR 2SC634SP
Q604	8-729-900-80	TRANSISTOR DTC114ES
Q605	8-729-117-54	TRANSISTOR 2SA1175

Note: 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				
Q606	8-729-117-54	TRANSISTOR 2SA1175				
Q607	8-729-111-67	TRANSISTOR 2SB1094-L				
Q608	8-729-209-15	TRANSISTOR 2SD2012				
Q609	8-729-600-27	TRANSISTOR 2SC634SP				
Q610	8-729-117-54	TRANSISTOR 2SA1175				
Q611	8-729-117-54	TRANSISTOR 2SA1175				
Q612	8-729-209-60	TRANSISTOR 2SB1375				
Q613	8-729-117-54	TRANSISTOR 2SA1175				
Q614	8-729-364-72	TRANSISTOR 2SB647				
Q701	8-729-801-93	TRANSISTOR 2SD1387				
Q702	8-729-801-83	TRANSISTOR 2SB1013				
Q703	8-729-801-83	TRANSISTOR 2SB1013				
Q704	8-729-801-93	TRANSISTOR 2SD1387				
Q705	8-729-801-93	TRANSISTOR 2SD1387				
Q706	8-729-801-93	TRANSISTOR 2SD1387				
Q707	8-729-900-80	TRANSISTOR DTC114ES				
Q708	8-729-900-65	TRANSISTOR DTA144ES				
Q709	8-729-801-83	TRANSISTOR 2SB1013				
Q710	8-729-811-24	TRANSISTOR 2SD1012				
Q711	8-729-801-93	TRANSISTOR 2SD1387				
Q712	8-729-801-83	TRANSISTOR 2SB1013				
Q713	8-729-801-83	TRANSISTOR 2SB1013				
Q714	8-729-801-93	TRANSISTOR 2SD1387				
Q715	8-729-801-93	TRANSISTOR 2SD1387				
Q716	8-729-801-93	TRANSISTOR 2SD1387				
Q717	8-729-900-80	TRANSISTOR DTC114ES				
Q718	8-729-900-65	TRANSISTOR DTA144ES				
Q719	8-729-801-83	TRANSISTOR 2SB1013				
Q720	8-729-811-24	TRANSISTOR 2SD1012				
Q721	8-729-900-65	TRANSISTOR DTA144ES				
Q722	8-729-900-85	TRANSISTOR DTC144ES				
Q723	8-729-900-80	TRANSISTOR DTC114ES				
Q724	8-729-600-27	TRANSISTOR 2SC634SP				
Q725	8-729-600-27	TRANSISTOR 2SC634SP				
Q726	8-729-900-74	TRANSISTOR DTC143TS				
Q727	8-729-900-74	TRANSISTOR DTC143TS				
Q728	8-729-900-74	TRANSISTOR DTC143TS				
Q729	8-729-900-61	TRANSISTOR DTA114ES				
Q730	8-729-900-61	TRANSISTOR DTA114ES				
Q731	8-729-900-61	TRANSISTOR DTA114ES				
Q732	8-729-900-61	TRANSISTOR DTA114ES				
Q733	8-729-900-61	TRANSISTOR DTA114ES				
Q734	8-729-900-61	TRANSISTOR DTA114ES				
Q742	8-729-900-65	TRANSISTOR DTA144ES				
Q743	8-729-900-80	TRANSISTOR DTC114ES				
Q744	8-729-600-27	TRANSISTOR 2SC634SP				
Q745	8-729-900-61	TRANSISTOR DTA114ES				
Q801	8-729-117-54	TRANSISTOR 2SA1175				
Q802	8-729-900-80	TRANSISTOR DTC114ES				
Q1001	1-807-509-11	PHOTO SENSOR				
Q1002	1-807-509-11	PHOTO SENSOR				
R101	1-259-484-11	CARBON	220K	5%	1/6W	
R105	1-259-402-11	CARBON	82	5%	1/6W	
R106	1-259-479-91	CARBON	130K	5%	1/6W	
R107	1-259-446-11	CARBON	5.6K	5%	1/6W	
R108	1-259-449-11	CARBON	7.5K	5%	1/6W	
R109	1-249-425-11	CARBON	4.7K	5%	1/4W	

Ref.No.	Part No.	Description				
R111	1-259-484-11	CARBON 220K 5% 1/6W				
R112	1-259-402-11	CARBON 82 5% 1/6W				
R113	1-259-479-91	CARBON 130K 5% 1/6W				
R114	1-259-446-11	CARBON 5.6K 5% 1/6W				
R115	1-259-449-11	CARBON 7.5K 5% 1/6W				
R116	1-249-425-11	CARBON 4.7K 5% 1/4W				
R121	1-249-430-11	CARBON 12K 5% 1/4W				
R122	1-249-425-11	CARBON 4.7K 5% 1/4W				
R123	1-249-441-11	CARBON 100K 5% 1/4W				
R124	1-249-429-11	CARBON 10K 5% 1/4W				
R125	1-249-426-11	CARBON 5.6K 5% 1/4W				
R131	1-249-430-11	CARBON 12K 5% 1/4W				
R132	1-249-425-11	CARBON 4.7K 5% 1/4W				
R133	1-249-441-11	CARBON 100K 5% 1/4W				
R134	1-249-429-11	CARBON 10K 5% 1/4W				
R135	1-249-426-11	CARBON 5.6K 5% 1/4W				
R141	1-249-437-11	CARBON 47K 5% 1/4W				
R142	1-249-434-11	CARBON 27K 5% 1/4W				
R143	1-249-429-11	CARBON 10K 5% 1/4W				
R144	1-249-397-11	CARBON 22 5% 1/4W				
R151	1-249-433-11	CARBON 22K 5% 1/4W				
R152	1-249-421-11	CARBON 2.2K 5% 1/4W				
R153	1-249-421-11	CARBON 2.2K 5% 1/4W				
R154	1-249-441-11	CARBON 100K 5% 1/4W				
R155	1-249-419-11	CARBON 1.5K 5% 1/4W				
R156	1-247-872-11	CARBON 51K 5% 1/4W				
R157	1-249-415-11	CARBON 680 5% 1/4W				
R158	1-249-427-11	CARBON 6.8K 5% 1/4W				
R159	1-247-822-11	CARBON 430 5% 1/4W				
R160	1-247-840-00	CARBON 2.4K 5% 1/4W				
R161	1-247-846-11	CARBON 4.3K 5% 1/4W				
R162	1-249-428-11	CARBON 8.2K 5% 1/4W				
R163	1-249-423-11	CARBON 3.3K 5% 1/4W				
R195	1-259-428-11	CARBON 1K 5% 1/6W				
R196	1-259-464-11	CARBON 33K 5% 1/6W				
R201	1-259-484-11	CARBON 220K 5% 1/6W				
R205	1-259-402-11	CARBON 82 5% 1/6W				
R206	1-259-479-91	CARBON 130K 5% 1/6W				
R207	1-259-446-11	CARBON 5.6K 5% 1/6W				
R208	1-259-449-11	CARBON 7.5K 5% 1/6W				
R209	1-249-425-11	CARBON 4.7K 5% 1/4W				
R211	1-259-484-11	CARBON 220K 5% 1/6W				
R212	1-259-402-11	CARBON 82 5% 1/6W				
R213	1-259-479-91	CARBON 130K 5% 1/6W				
R214	1-259-446-11	CARBON 5.6K 5% 1/6W				
R215	1-259-449-11	CARBON 7.5K 5% 1/6W				
R216	1-249-425-11	CARBON 4.7K 5% 1/4W				
R221	1-249-430-11	CARBON 12K 5% 1/4W				
R222	1-249-425-11	CARBON 4.7K 5% 1/4W				
R223	1-249-441-11	CARBON 100K 5% 1/4W				
R224	1-249-429-11	CARBON 10K 5% 1/4W				
R225	1-249-426-11	CARBON 5.6K 5% 1/4W				
R231	1-249-430-11	CARBON 12K 5% 1/4W				
R232	1-249-425-11	CARBON 4.7K 5% 1/4W				
R233	1-249-441-11	CARBON 100K 5% 1/4W				
R234	1-249-429-11	CARBON 10K 5% 1/4W				
R235	1-249-426-11	CARBON 5.6K 5% 1/4W				

Ref.No.	Part No.	Description			
R241	1-249-437-11	CARBON	47K	5%	1/4W
R242	1-249-434-11	CARBON	27K	5%	1/4W
R243	1-249-429-11	CARBON	10K	5%	1/4W
R244	1-249-397-11	CARBON	22	5%	1/4W
R251	1-249-433-11	CARBON	22K	5%	1/4W
R252	1-249-421-11	CARBON	2.2K	5%	1/4W
R253	1-249-421-11	CARBON	2.2K	5%	1/4W
R254	1-249-441-11	CARBON	100K	5%	1/4W
R255	1-249-419-11	CARBON	1.5K	5%	1/4W
R256	1-247-872-11	CARBON	51K	5%	1/4W
R257	1-249-415-11	CARBON	680	5%	1/4W
R258	1-249-427-11	CARBON	6.8K	5%	1/4W
R259	1-247-822-11	CARBON	430	5%	1/4W
R260	1-247-840-00	CARBON	2.4K	5%	1/4W
R261	1-247-846-11	CARBON	4.3K	5%	1/4W
R262	1-249-428-11	CARBON	8.2K	5%	1/4W
R263	1-249-423-11	CARBON	3.3K	5%	1/4W
R295	1-259-428-11	CARBON	1K	5%	1/6W
R296	1-259-464-11	CARBON	33K	5%	1/6W
R301	1-249-409-11	CARBON	220	5%	1/4W
R302	1-249-409-11	CARBON	220	5%	1/4W
R303	1-249-437-11	CARBON	47K	5%	1/4W
R304	1-249-409-11	CARBON	220	5%	1/4W
R305	1-249-409-11	CARBON	220	5%	1/4W
R306	1-249-437-11	CARBON	47K	5%	1/4W
R307	1-247-864-11	CARBON	24K	5%	1/4W
R308	1-249-437-11	CARBON	47K	5%	1/4W
R309	1-247-864-11	CARBON	24K	5%	1/4W
R310	1-249-437-11	CARBON	47K	5%	1/4W
R311	1-249-437-11	CARBON	47K	5%	1/4W
R312	1-249-437-11	CARBON	47K	5%	1/4W
R313	1-249-429-11	CARBON	10K	5%	1/4W
R314	1-249-429-11	CARBON	10K	5%	1/4W
R315	1-249-429-11	CARBON	10K	5%	1/4W
R316	1-249-437-11	CARBON	47K	5%	1/4W
R317	1-249-437-11	CARBON	47K	5%	1/4W
R318	1-249-437-11	CARBON	47K	5%	1/4W
R319	1-249-437-11	CARBON	47K	5%	1/4W
R320	1-249-437-11	CARBON	47K	5%	1/4W
R321	1-249-429-11	CARBON	10K	5%	1/4W
R322	1-249-437-11	CARBON	47K	5%	1/4W
R323	1-249-417-11	CARBON	1K	5%	1/4W
R324	1-247-850-11	CARBON	6.2K	5%	1/4W
R325	1-249-420-11	CARBON	1.8K	5%	1/4W
R326	1-249-405-11	CARBON	100	5%	1/4W
R327	1-249-405-11	CARBON	100	5%	1/4W
R328	1-249-420-11	CARBON	1.8K	5%	1/4W
R329	1-247-850-11	CARBON	6.2K	5%	1/4W
R330	1-249-423-11	CARBON	3.3K	5%	1/4W
R331	1-249-425-11	CARBON	4.7K	5%	1/4W
R332	1-249-401-11	CARBON	47	5%	1/4W
R333	1-249-423-11	CARBON	3.3K	5%	1/4W
R334	1-249-425-11	CARBON	4.7K	5%	1/4W
R335	1-249-401-11	CARBON	47	5%	1/4W
R336	1-249-429-11	CARBON	10K	5%	1/4W
R337	1-249-429-11	CARBON	10K	5%	1/4W
R338	1-249-423-11	CARBON	3.3K	5%	1/4W

Ref.No.	Part No.	Description			
R339	1-249-417-11	CARBON	1K	5%	1/4W
R340	1-249-440-11	CARBON	82K	5%	1/4W
R341	1-249-440-11	CARBON	82K	5%	1/4W
R342	1-249-440-11	CARBON	82K	5%	1/4W
R343	1-249-440-11	CARBON	82K	5%	1/4W
R344	1-249-388-11	CARBON	3.9	5%	1/4W
R345	1-249-388-11	CARBON	3.9	5%	1/4W
R346	1-249-429-11	CARBON	10K	5%	1/4W
R347	1-249-429-11	CARBON	10K	5%	1/4W
R348	1-249-429-11	CARBON	10K	5%	1/4W
R349	1-249-429-11	CARBON	10K	5%	1/4W
R350	1-249-381-11	CARBON	1	5%	1/4W
R351	1-249-381-11	CARBON	1	5%	1/4W
R352	△1-212-857-00	FUSIBLE	10	5%	1/4W
R353	△1-212-857-00	FUSIBLE	10	5%	1/4W
R401	1-249-436-11	CARBON	39K	5%	1/4W
R402	1-247-874-11	CARBON	62K	5%	1/4W
R403	1-247-883-00	CARBON	150K	5%	1/4W
R404	1-247-882-11	CARBON	130K	5%	1/4W
R405	1-249-437-11	CARBON	47K	5%	1/4W
R406	1-247-876-11	CARBON	75K	5%	1/4W
R407	1-247-886-11	CARBON	200K	5%	1/4W
R408	1-247-876-11	CARBON	75K	5%	1/4W
R409	1-247-881-00	CARBON	120K	5%	1/4W
R410	1-247-883-00	CARBON	150K	5%	1/4W
R411	1-247-874-11	CARBON	62K	5%	1/4W
R412	1-249-441-11	CARBON	100K	5%	1/4W
R413	1-247-891-00	CARBON	330K	5%	1/4W
R414	1-247-881-00	CARBON	120K	5%	1/4W
R415	1-249-439-11	CARBON	68K	5%	1/4W
R416	1-249-438-11	CARBON	56K	5%	1/4W
R417	1-247-876-11	CARBON	75K	5%	1/4W
R418	1-249-441-11	CARBON	100K	5%	1/4W
R425	1-249-436-11	CARBON	39K	5%	1/4W
R426	1-247-874-11	CARBON	62K	5%	1/4W
R427	1-247-883-00	CARBON	150K	5%	1/4W
R428	1-247-882-11	CARBON	130K	5%	1/4W
R429	1-249-437-11	CARBON	47K	5%	1/4W
R430	1-247-876-11	CARBON	75K	5%	1/4W
R431	1-247-886-11	CARBON	200K	5%	1/4W
R432	1-247-876-11	CARBON	75K	5%	1/4W
R433	1-247-881-00	CARBON	120K	5%	1/4W
R434	1-247-883-00	CARBON	150K	5%	1/4W
R435	1-247-874-11	CARBON	62K	5%	1/4W
R436	1-249-441-11	CARBON	100K	5%	1/4W
R437	1-247-891-00	CARBON	330K	5%	1/4W
R438	1-247-881-00	CARBON	120K	5%	1/4W
R439	1-249-439-11	CARBON	68K	5%	1/4W
R440	1-249-438-11	CARBON	56K	5%	1/4W
R441	1-247-876-11	CARBON	75K	5%	1/4W
R442	1-249-441-11	CARBON	100K	5%	1/4W
R443	1-247-885-00	CARBON	180K	5%	1/4W
R444	1-247-868-11	CARBON	36K	5%	1/4W
R445	1-249-439-11	CARBON	68K	5%	1/4W
R446	1-247-870-11	CARBON	43K	5%	1/4W
R447	1-249-438-11	CARBON	56K	5%	1/4W
R448	1-247-866-11	CARBON	30K	5%	1/4W

Note: 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			
R449	1-247-882-11	CARBON	130K	5%	1/4W
R450	1-247-872-11	CARBON	51K	5%	1/4W
R451	1-249-437-11	CARBON	47K	5%	1/4W
R452	1-249-438-11	CARBON	56K	5%	1/4W
R453	1-247-876-11	CARBON	75K	5%	1/4W
R454	1-247-874-11	CARBON	62K	5%	1/4W
R455	1-247-885-00	CARBON	180K	5%	1/4W
R456	1-247-876-11	CARBON	75K	5%	1/4W
R457	1-247-866-11	CARBON	30K	5%	1/4W
R458	1-249-435-11	CARBON	33K	5%	1/4W
R459	1-249-441-11	CARBON	100K	5%	1/4W
R460	1-249-439-11	CARBON	68K	5%	1/4W
R461	1-247-887-00	CARBON	220K	5%	1/4W
R501	1-249-437-11	CARBON	47K	5%	1/4W
R502	1-249-437-11	CARBON	47K	5%	1/4W
R503	1-249-437-11	CARBON	47K	5%	1/4W
R504	1-249-437-11	CARBON	47K	5%	1/4W
R505	1-249-405-11	CARBON	100	5%	1/4W
R506	1-215-469-00	METAL	100K	1%	1/6W
R601	1-247-717-11	CARBON	2.2K	5%	1/4W
R602	1-247-717-11	CARBON	2.2K	5%	1/4W
R603	1-249-429-11	CARBON	10K	5%	1/4W
R604	1-249-421-11	CARBON	2.2K	5%	1/4W
R605	1-249-405-11	CARBON	100	5%	1/4W
R606	1-247-717-11	CARBON	2.2K	5%	1/4W
R607	1-247-717-11	CARBON	2.2K	5%	1/4W
R608	1-247-717-11	CARBON	2.2K	5%	1/4W
R609	1-247-704-11	CARBON	220	5%	1/4W
R610	1-247-714-11	CARBON	1.2K	5%	1/4W
R611	1-247-714-11	CARBON	1.2K	5%	1/4W
R612	1-247-713-11	CARBON	1K	5%	1/4W
R613	1-249-421-11	CARBON	2.2K	5%	1/4W
R614	1-249-425-11	CARBON	4.7K	5%	1/4W
R615	1-249-432-11	CARBON	18K	5%	1/4W
R616	1-249-421-11	CARBON	2.2K	5%	1/4W
R617	1-249-421-11	CARBON	2.2K	5%	1/4W
R618	1-247-838-00	CARBON	2K	5%	1/4W
R619	1-249-429-11	CARBON	10K	5%	1/4W
R620	1-249-415-11	CARBON	680	5%	1/4W
R701	1-249-485-11	CARBON	8.2	5%	1/2W
R702	1-249-414-11	CARBON	560	5%	1/4W
R703	1-249-419-11	CARBON	1.5K	5%	1/4W
R704	1-249-417-11	CARBON	1K	5%	1/4W
R705	1-249-425-11	CARBON	4.7K	5%	1/4W
R706	1-249-425-11	CARBON	4.7K	5%	1/4W
R707	1-249-437-11	CARBON	47K	5%	1/4W
R708	1-249-437-11	CARBON	47K	5%	1/4W
R709	1-249-425-11	CARBON	4.7K	5%	1/4W
R710	1-249-417-11	CARBON	1K	5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W
R712	1-249-431-11	CARBON	15K	5%	1/4W
R713	1-249-431-11	CARBON	15K	5%	1/4W
R717	1-249-417-11	CARBON	1K	5%	1/4W
R718	1-249-423-11	CARBON	3.3K	5%	1/4W
R719	1-249-437-11	CARBON	47K	5%	1/4W
R720	1-249-485-11	CARBON	8.2	5%	1/2W
R721	1-249-414-11	CARBON	560	5%	1/4W
R722	1-249-419-11	CARBON	1.5K	5%	1/4W

Ref.No.	Part No.	Description			
R723	1-249-417-11	CARBON	1K	5%	1/4W
R724	1-249-425-11	CARBON	4.7K	5%	1/4W
R725	1-249-425-11	CARBON	4.7K	5%	1/4W
R726	1-249-437-11	CARBON	47K	5%	1/4W
R727	1-249-437-11	CARBON	47K	5%	1/4W
R728	1-249-425-11	CARBON	4.7K	5%	1/4W
R729	1-249-417-11	CARBON	1K	5%	1/4W
R730	1-249-417-11	CARBON	1K	5%	1/4W
R731	1-249-431-11	CARBON	15K	5%	1/4W
R732	1-249-431-11	CARBON	15K	5%	1/4W
R733	1-249-417-11	CARBON	1K	5%	1/4W
R737	1-249-423-11	CARBON	3.3K	5%	1/4W
R738	1-249-437-11	CARBON	47K	5%	1/4W
R739	1-249-435-11	CARBON	33K	5%	1/4W
R744	1-249-425-11	CARBON	4.7K	5%	1/4W
R747	1-249-417-11	CARBON	1K	5%	1/4W
R748	1-249-435-11	CARBON	33K	5%	1/4W
R749	1-249-437-11	CARBON	47K	5%	1/4W
R750	1-249-437-11	CARBON	47K	5%	1/4W
R751	1-249-437-11	CARBON	47K	5%	1/4W
R752	1-249-425-11	CARBON	4.7K	5%	1/4W
R753	1-249-437-11	CARBON	47K	5%	1/4W
R754	1-249-437-11	CARBON	47K	5%	1/4W
R755	1-247-895-00	CARBON	470K	5%	1/4W
R756	1-247-895-00	CARBON	470K	5%	1/4W
R757	1-247-895-00	CARBON	470K	5%	1/4W
R758	1-247-895-00	CARBON	470K	5%	1/4W
R759	1-249-437-11	CARBON	47K	5%	1/4W
R760	1-249-437-11	CARBON	47K	5%	1/4W
R761	1-249-437-11	CARBON	47K	5%	1/4W
R762	1-249-437-11	CARBON	47K	5%	1/4W
R763	1-249-430-11	CARBON	12K	5%	1/4W
R764	1-249-430-11	CARBON	12K	5%	1/4W
R765	1-249-430-11	CARBON	12K	5%	1/4W
R766	1-249-431-11	CARBON	15K	5%	1/4W
R767	1-249-430-11	CARBON	12K	5%	1/4W
R768	1-249-431-11	CARBON	15K	5%	1/4W
R769	1-249-430-11	CARBON	12K	5%	1/4W
R770	1-249-430-11	CARBON	12K	5%	1/4W
R771	1-249-425-11	CARBON	4.7K	5%	1/4W
R772	1-249-431-11	CARBON	15K	5%	1/4W
R773	1-249-431-11	CARBON	15K	5%	1/4W
R774	1-249-429-11	CARBON	10K	5%	1/4W
R789	1-249-437-11	CARBON	47K	5%	1/4W
R793	1-249-417-11	CARBON	1K	5%	1/4W
R794	1-249-435-11	CARBON	33K	5%	1/4W
R795	1-249-437-11	CARBON	47K	5%	1/4W
R801	1-249-435-11	CARBON	33K	5%	1/4W
R802	1-249-435-11	CARBON	33K	5%	1/4W
R803	1-249-435-11	CARBON	33K	5%	1/4W
R804	1-249-435-11	CARBON	33K	5%	1/4W
R805	1-249-437-11	CARBON	47K	5%	1/4W
R806	1-249-429-11	CARBON	10K	5%	1/4W
R807	1-249-429-11	CARBON	10K	5%	1/4W
R808	1-249-437-11	CARBON	47K	5%	1/4W
R809	1-249-437-11	CARBON	47K	5%	1/4W
R810	1-249-437-11	CARBON	47K	5%	1/4W
R811	1-249-430-11	CARBON	12K	5%	1/4W

Ref.No.	Part No.	Description			
R812	1-247-903-00	CARBON	1M	5%	1/4W
R813	1-249-437-11	CARBON	47K	5%	1/4W
R814	1-249-413-11	CARBON	470	5%	1/4W
R815	1-249-441-11	CARBON	100K	5%	1/4W
R816	1-249-429-11	CARBON	10K	5%	1/4W
R817	1-249-433-11	CARBON	22K	5%	1/4W
R818	1-249-417-11	CARBON	1K	5%	1/4W
R819	1-249-428-11	CARBON	8.2K	5%	1/4W
R820	1-249-423-11	CARBON	3.3K	5%	1/4W
R821	1-249-441-11	CARBON	100K	5%	1/4W
R822	1-249-441-11	CARBON	100K	5%	1/4W
R823	1-249-423-11	CARBON	3.3K	5%	1/4W
R824	1-249-441-11	CARBON	100K	5%	1/4W
R825	1-249-441-11	CARBON	100K	5%	1/4W
R901	1-249-402-11	CARBON	56	5%	1/4W
R902	1-249-407-11	CARBON	150	5%	1/4W
R903	1-249-402-11	CARBON	56	5%	1/4W
R904	1-249-407-11	CARBON	150	5%	1/4W
R905	1-249-403-11	CARBON	68	5%	1/4W
R906	1-249-402-11	CARBON	56	5%	1/4W
R907	1-249-407-11	CARBON	150	5%	1/4W
R908	1-249-402-11	CARBON	56	5%	1/4W
R909	1-249-407-11	CARBON	150	5%	1/4W
R910	1-249-403-11	CARBON	68	5%	1/4W
R911	1-249-404-00	CARBON	82	5%	1/4W
R912	1-249-404-00	CARBON	82	5%	1/4W
R913	1-249-404-00	CARBON	82	5%	1/4W
R914	1-249-403-11	CARBON	68	5%	1/4W
R915	1-249-403-11	CARBON	68	5%	1/4W
R916	1-249-433-11	CARBON	22K	5%	1/4W
R917	1-249-429-11	CARBON	10K	5%	1/4W
R918	1-249-431-11	CARBON	15K	5%	1/4W
R919	1-249-433-11	CARBON	22K	5%	1/4W
R920	1-249-429-11	CARBON	10K	5%	1/4W
R921	1-249-426-11	CARBON	5.6K	5%	1/4W
R922	1-249-433-11	CARBON	22K	5%	1/4W
R923	1-249-429-11	CARBON	10K	5%	1/4W
R924	1-249-426-11	CARBON	5.6K	5%	1/4W
R925	1-249-433-11	CARBON	22K	5%	1/4W
R926	1-249-429-11	CARBON	10K	5%	1/4W
R927	1-249-426-11	CARBON	5.6K	5%	1/4W
R928	1-249-433-11	CARBON	22K	5%	1/4W
R929	1-249-429-11	CARBON	10K	5%	1/4W
R930	1-249-426-11	CARBON	5.6K	5%	1/4W
R931	1-249-433-11	CARBON	22K	5%	1/4W
R932	1-249-428-11	CARBON	8.2K	5%	1/4W
R933	1-249-424-11	CARBON	3.9K	5%	1/4W
R934	1-249-422-11	CARBON	2.7K	5%	1/4W
R935	1-249-424-11	CARBON	3.9K	5%	1/4W
R936	1-249-422-11	CARBON	2.7K	5%	1/4W
RV101	1-228-994-00	RES, ADJ, CARBON	10K		
RV111	1-228-994-00	RES, ADJ, CARBON	10K		
RV121	1-228-994-00	RES, ADJ, CARBON	10K		
RV131	1-228-994-00	RES, ADJ, CARBON	10K		
RV201	1-228-994-00	RES, ADJ, CARBON	10K		
RV211	1-228-994-00	RES, ADJ, CARBON	10K		
RV221	1-228-994-00	RES, ADJ, CARBON	10K		
RV231	1-228-994-00	RES, ADJ, CARBON	10K		
RV301	1-228-993-00	RES, ADJ, CARBON	4.7K		

Ref.No.	Part No.	Description
RV302	1-228-993-00	RES, ADJ, CARBON 4.7K
RV391	1-237-888-11	RES, VAR, CARBON 20K/20K (REC LEVEL)
RV701	1-228-995-00	RES, ADJ, CARBON 22K
RV702	1-228-995-00	RES, ADJ, CARBON 22K
RV703	1-228-995-00	RES, ADJ, CARBON 22K
RV704	1-228-995-00	RES, ADJ, CARBON 22K
RY301	1-515-683-11	RELAY
RY302	1-515-683-11	RELAY
S501	1-571-452-11	SWITCH, SLIDE (DOLBY NR)
S601	1-552-931-00	SWITCH, PUSH (POWER)
S901	1-571-452-11	SWITCH, SLIDE (TIMER)
S902	1-571-452-11	SWITCH, SLIDE (DIRECTION MODE)
S903	1-554-303-21	SWITCH, KEY BOARD (A REC)
S904	1-554-303-21	SWITCH, KEY BOARD (A FF)
S905	1-554-303-21	SWITCH, KEY BOARD (A REW)
S906	1-554-303-21	SWITCH, KEY BOARD (A STOP)
S907	1-554-303-21	SWITCH, KEY BOARD (A REC MUTE)
S908	1-554-303-21	SWITCH, KEY BOARD (A PAUSE)
S909	1-554-303-21	SWITCH, KEY BOARD (A REV)
S910	1-554-303-21	SWITCH, KEY BOARD (A FWD)
S911	1-554-303-21	SWITCH, KEY BOARD (B REC)
S912	1-554-303-21	SWITCH, KEY BOARD (B FF)
S913	1-554-303-21	SWITCH, KEY BOARD (B REW)
S914	1-554-303-21	SWITCH, KEY BOARD (B STOP)
S915	1-554-303-21	SWITCH, KEY BOARD (B REC MUTE)
S916	1-554-303-21	SWITCH, KEY BOARD (B PAUSE)
S917	1-554-303-21	SWITCH, KEY BOARD (B REV)
S918	1-554-303-21	SWITCH, KEY BOARD (B FWD)
S919	1-554-303-21	SWITCH, KEY BOARD (A+B REC)
S920	1-554-303-21	SWITCH, KEY BOARD (AUTO PAUSE)
S921	1-554-303-21	SWITCH, KEY BOARD (NORMAL SPEED)
S922	1-554-303-21	SWITCH, KEY BOARD (HIGH SPEED)
S923	1-554-303-21	SWITCH, KEY BOARD (AMS/BLANK SKIP)
S924	1-554-303-21	SWITCH, KEY BOARD (A/B)
S925	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S926	1-554-303-21	SWITCH, KEY BOARD (RESET)
S1001	1-570-720-11	SWITCH, PUSH (1 KEY)
S1002	1-570-723-11	SWITCH, PUSH (1 KEY)
S1003	1-570-720-11	SWITCH, PUSH (1 KEY)
S1004	1-570-721-11	SWITCH, LEAF
S1005	1-570-721-11	SWITCH, LEAF
SPK151	1-235-186-00	ENCAPSULATED COMPONENT
SPK251	1-235-186-00	ENCAPSULATED COMPONENT
T301	1-464-725-11	OSCILLATION UNIT, BIAS
T302	1-433-318-11	TRANSFORMER, BIAS OSCILLATION
T303	1-433-318-11	TRANSFORMER, BIAS OSCILLATION
T1001A	1-449-214-11	TRANSFORMER, POWER
X701	1-567-771-11	VIBRATOR, CERAMIC (6MHz)
X801	1-567-772-11	VIBRATOR, CERAMIC (4.19MHz)

ACCESSORY & PACKING MATERIAL

1-558-543-11	CORD, CONNECTION
*3-343-647-01	INDIVIDUAL CARTON
*3-343-648-01	CUSHION
3-769-914-11	(UK)...MANUAL, INSTRUCTION
3-769-914-41	(AEP)...MANUAL, INSTRUCTION

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

