

CDP-555ESD /705ESD

SERVICE MANUAL

762

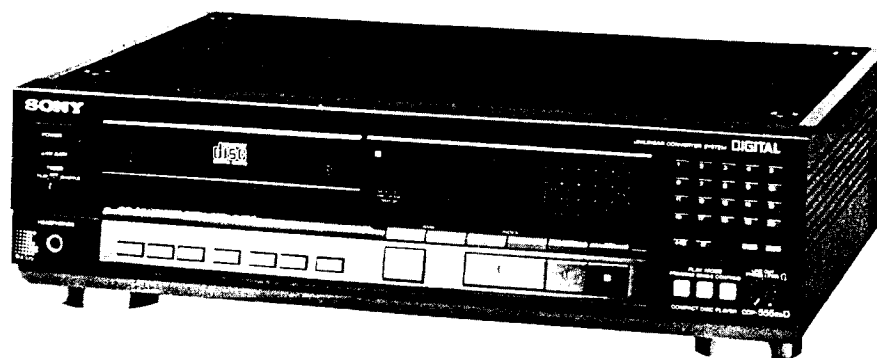
CDP-555ESD:

AEP Model

UK Model

CDP-705ESD:

US Model



COMPACT
disc
DIGITAL AUDIO

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SPECIFICATIONS

COMPACT DISC PLAYER CDP-705ESD

System	Compact disc digital audio system
Disc	Compact disc
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
Laser output	Max. 0.4 mW*
	*This output is the value measured at a distance of about 1.6 mm from the objective lens surface on the Optical Pick-up Block.
Spindle speed	200 rpm to 500 rpm (CLV)
Scan velocity	1.2–1.4 m/sec.
Error correction	Sony Super Strategy Cross Interleave Reed Solomon Code
Number of channel	Two
D/A conversion	16-bit linear
Frequency response	2 – 20,000 Hz $\pm 0.3 \text{ dB}$
Signal to noise ratio	More than 106 dB
Dynamic range	More than 97 dB
Harmonic distortion	Less than 0.0025% (1 kHz)
Channel separation	More than 100 dB (1 kHz)
Wow and flutter	Below measurable limit
Output jacks	

	Max. output level	Load impedance	Output impedance
LINE OUT (FIXED) phono jacks	2 V (50 k Ω)	More than 10 k Ω	200 Ω
LINE OUT (VARIABLE) phono jacks	0 – 2 Vrms (50 k Ω)	More than 30 k Ω	200 – 2.5 k Ω
DIGITAL OUT phono jack	0.5 Vp-p (75 Ω)	75 Ω	75 Ω
HEADPHONES Phone jack	28 mW Variable, max	32 Ω	—

Disc

Track pitch	1.6 μm
Sampling frequency	44.1 kHz
Quantization	16 bit linear quantizing/channel
Modulation system	EFM
Transfer rate	2.03 Mbit/sec. (before modulation)

General

Power requirements	120V AC, 60 Hz
Power consumption	20 W
Power requirements	CDP-555ESD (AEP, UK model) 220 – 240 V AC, 50 Hz CDP-705ESD (US model) 120 V AC, 60 Hz
Dimensions	Approx. 430 × 125 × 395 mm (w/h/d) (17 × 5 × 15 $\frac{5}{8}$ inches)
Weight	Approx. 14.1 kg (31 lb 1 oz), net

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND 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.

COMPACT DISC PLAYER
SONY[®]



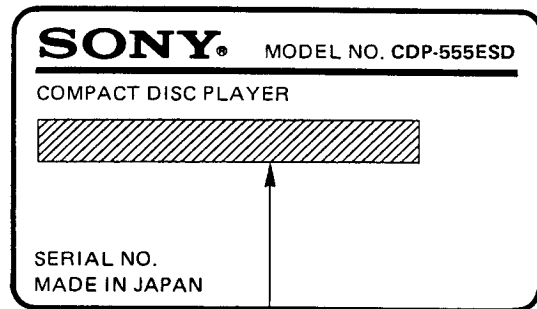
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MODEL IDENTIFICATION

— Specification Label —

CDP-555ESD (AEP, UK, E model)
CDP-705ESD (US model)



CDP-555ESD

AEP, UK, E model: AC 220 – 240 V ~ 50/60 Hz 20 W

CDP-705ESD

US model: AC 120 V ~ 60 Hz 20 W

SAFETY CHECK-OUT (US Model)

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)

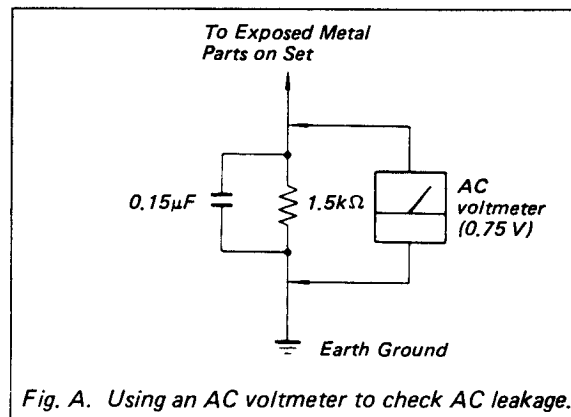


Fig. A. Using an AC voltmeter to check AC leakage.

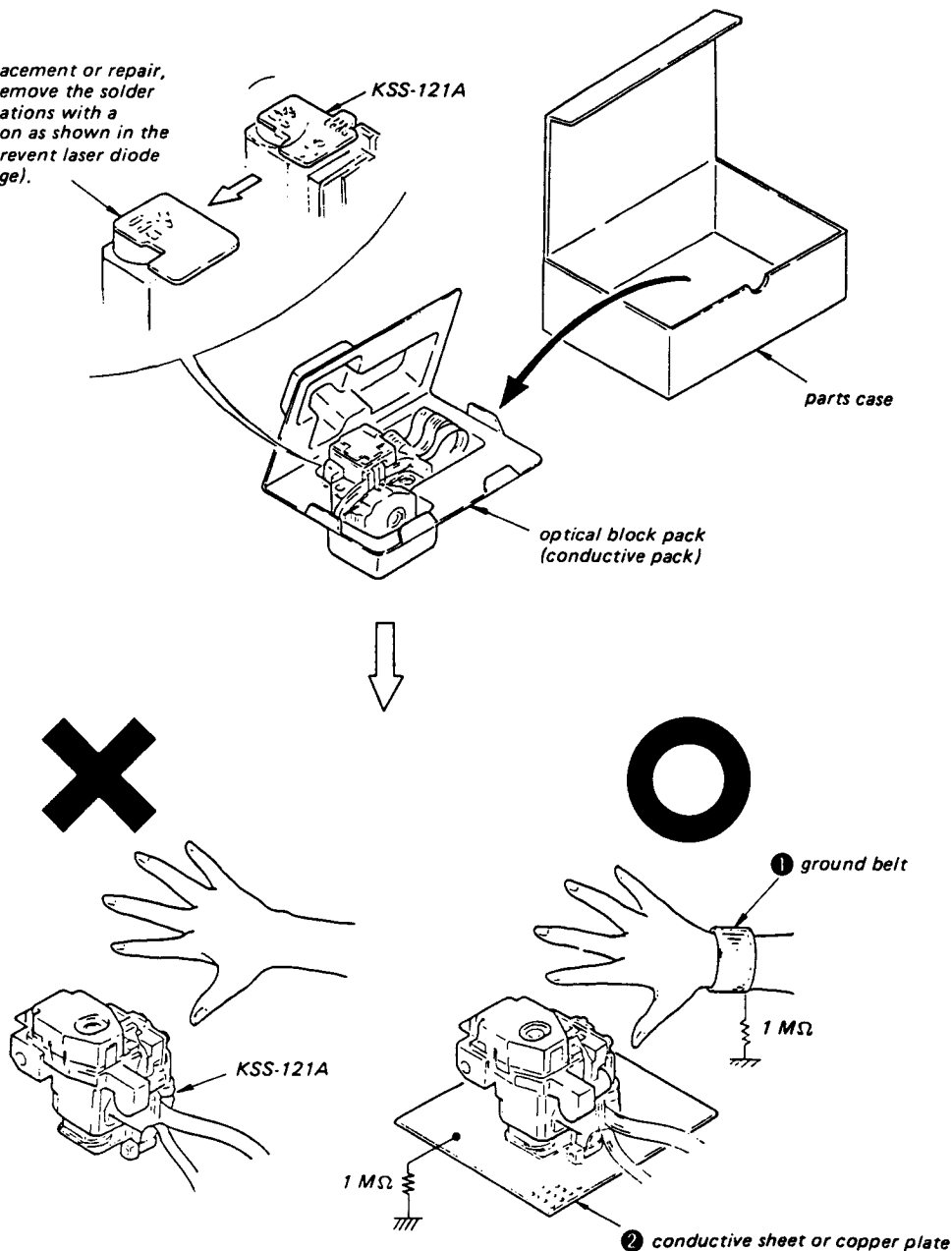
NOTES ON HANDLING THE OPTICAL BLOCK (KSS-121A)

The laser diode inside the optical block may be damaged by static electricity in clothes or the human body.

The following procedures are required when unpacking and repairing KSS-121A in order to avoid static electricity damage.

1. Body grounding
Be sure to wear a ground belt (less than $10^8 \Omega$) in order to release the static electricity stored in the body.
2. Workbench grounding
Place a conductive sheet (less than $10^9 \Omega$) or copper plate on the bench where KSS-121A is to be placed to ground it.
3. Static electricity in the clothing will not be released by the ground belt, so be careful not to let KSS-121A touch clothing.

During replacement or repair, be sure to remove the solder at these locations with a soldering iron as shown in the figure (to prevent laser diode static damage).



— SERVICING NOTE —

LASER DIODE AND FOCUS SERCH OPERATION CHECK

1. Remove disc pulley by lifting up chucking arm by hand. (Fig. A, B)
2. Make POWER switch on with no disc inserted and disc table closed.
3. Confirm that the operation indicated in Fig. C is performed while observing the objecting lens.

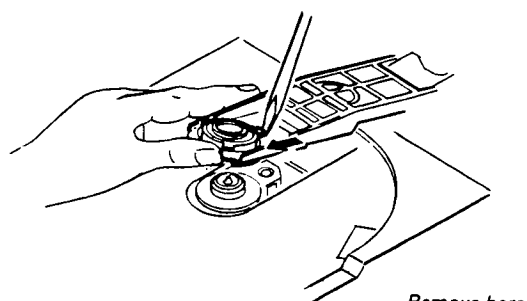
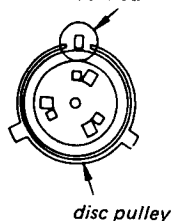


Fig. A

Remove here at first.



disc pulley

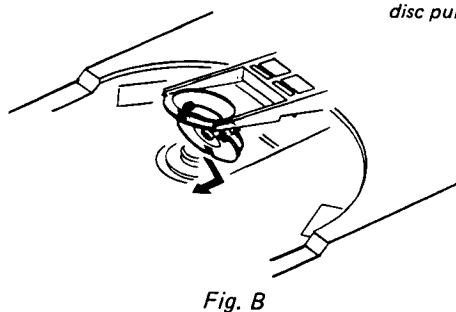
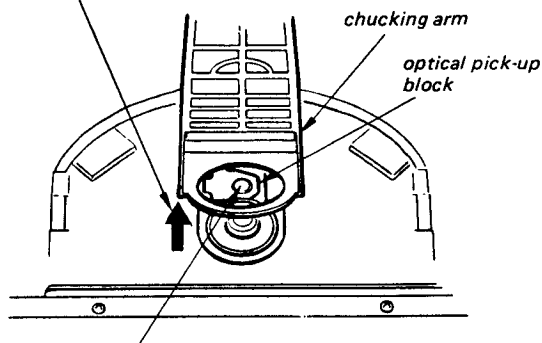


Fig. B

Lift up chucking arm by hand in the direction of arrow.



- ① Confirm that laser beam is spread.
- ② Up and down motion of the objective lens. (3 times)

Fig. C

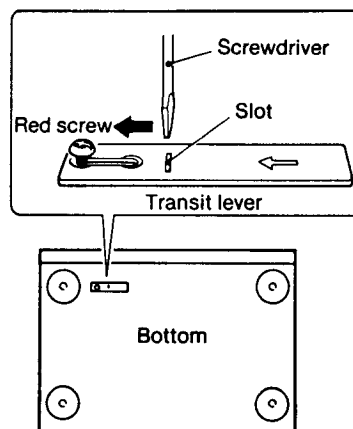
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25 cm away from the objective lens.

NOTE ON THE TRANSIT LEVER

A transit lever is provided at the bottom of the unit to protect the optical system against shock during transportation. Before operating the CD player, be sure to move the lever in the direction of the arrow and secure it.

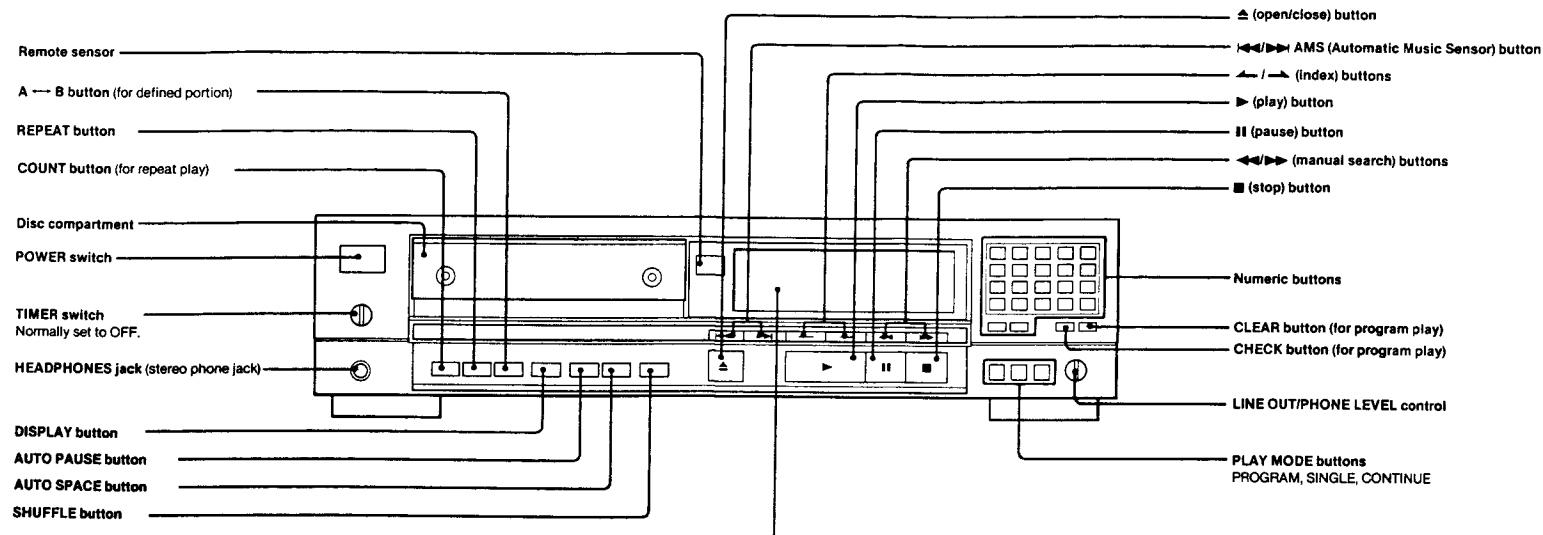
- 1 Loosen the red screw with a screwdriver.
- 2 Insert the screwdriver into the slot in the lever and move it in the direction of the arrow until it stops.
- 3 Tighten the red screw.



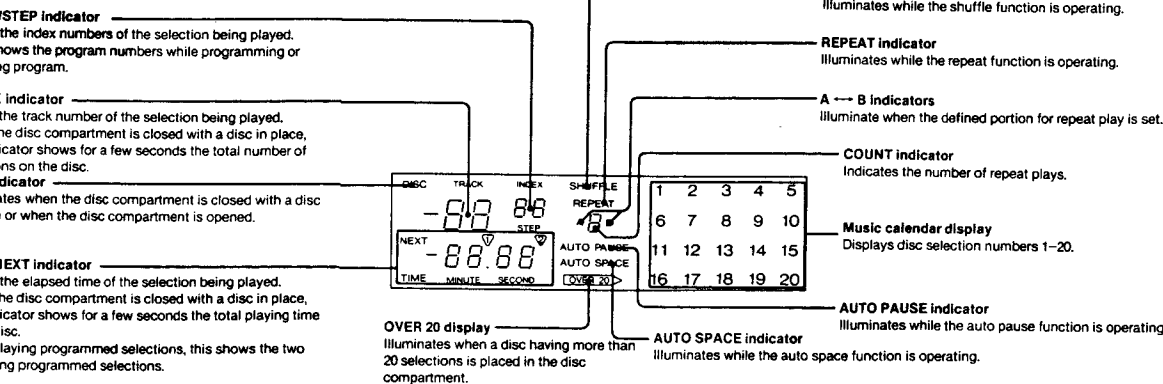
When transporting the unit again, move the lever in the opposite direction of the arrow and secure it with the screw.

ATION OF CONTROLS

LAYER

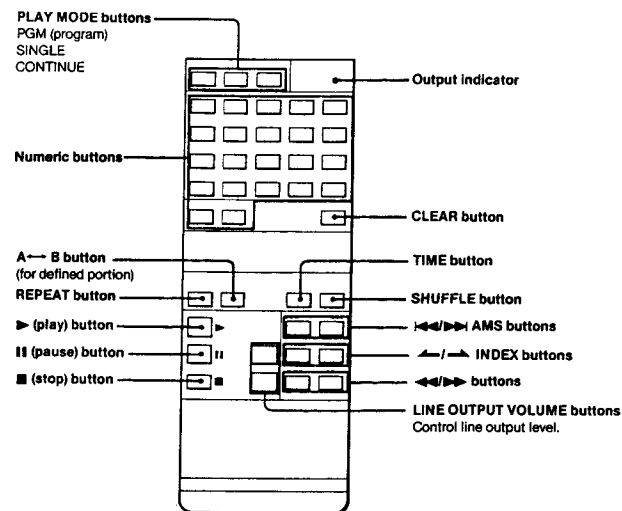


Window



REMOTE COMMANDER

Buttons whose functions are the same as the CDP-705ESD.



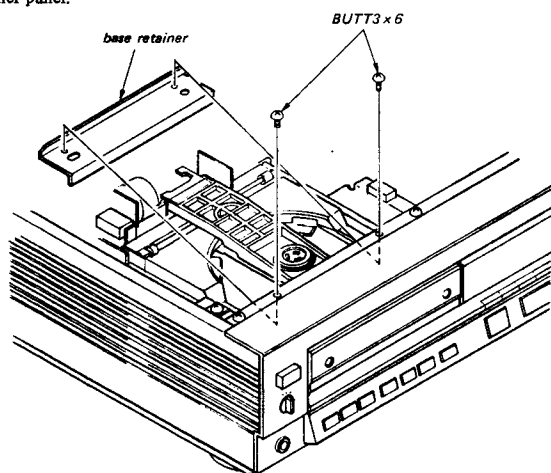
BLE CHECKS

g checks will assist in the correction of most problems which you may encounter with your unit. Should any
sist after you have made these checks, consult your nearest Sony service facility. Before going through the check
st refer back to the connection and operating procedures.

TROUBLE	CAUSES	REMEDY
Compartment does not close disc is inserted and the  pressed.	The disc is not placed correctly.	Center the disc correctly in the disc compartment.
Disc does not start.	Dirty disc	Clean the disc.
	The disc is inserted with the label surface downward.	Place the disc with the label surface up.
	The  button is engaged.	Press the  button again to release it.
	Moisture condensation	Wait for approx. one hour after turning on the unit then start play.
Sound not heard.	Loose connection	Connect the cords firmly.
	The DIGITAL OUT switch is set to ON while using the LINE OUT jacks.	Set the DIGITAL OUT switch to OFF.
	The LINE OUT/PHONE LEVEL control is set to the minimum (0) while using the VARIABLE LINE OUT jacks.	Turn the LINE OUT/PHONE LEVEL control clockwise.
Power window does not illuminate the power turns on.	The AC power cord is disconnected.	Connect the AC power cord firmly.
Light does not illuminate when the POWER switch is pressed.	The TIMER switch is set to PLAY or SHUFFLE.	Set the TIMER switch to OFF.
Recorded sound is different from the tape recorder.	When the VARIABLE LINE OUT jacks are used, the LINE OUT/PHONE LEVEL control is turned while recording.	Do not turn the LINE OUT/PHONE LEVEL control while recording.

Removal

1. Remove the base retainer when remove
the retainer panel.



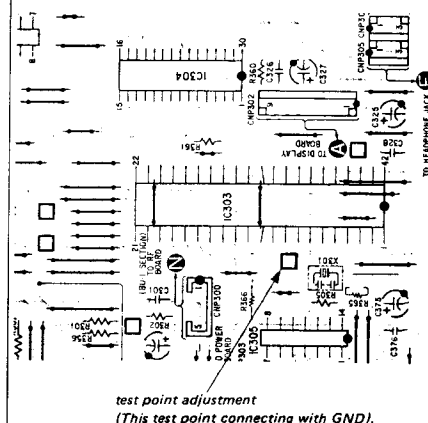
ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-1 disc unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.

Adjustment Mode

1. Connect main board test point ADJ and GND.
This is to prevent the disc table from opening even though pits are not read, by making microcomputer IC303 pin 0 low.
2. Turn POWER switch on.
(To reset microcomputer.)
After adjustment, remove the lead wire connecting test points ADJ and GND.

Adjustment Location: main board

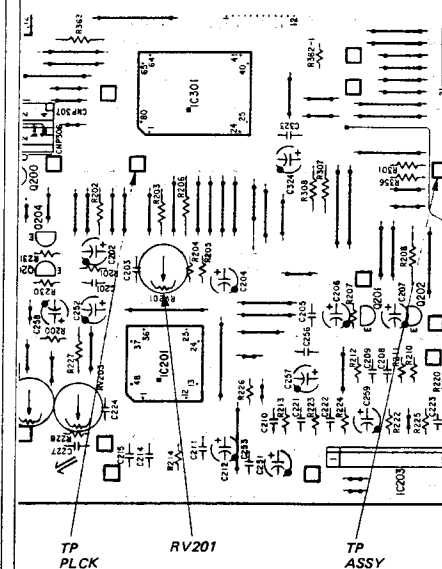


RF PLL Adjustment

Procedure:

1. Connect main board test point ASY and GND.
2. Connect the frequency counter to main board test points TP PLCK and TP GND.
3. Turn POWER switch ON (stop mode).
4. Adjust main board RV201 so that reading on frequency counter is 4.4018 MHz $\pm$ 20 kHz.
5. Reconnect lead wires connected in adjustment mode.
6. Put disc (YEDS-18) in and press  PLAY button.
7. Confirm that reading on frequency counter is 4.3218 MHz.

Adjustment Location: main board



Tracking Gain Adjustment

Frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is not adjusted, there is no problem. Therefore, do not perform this adjustment.

Tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical vibration when the 2-axis device is subjected to mechanical shock when the 2-axis device is operated.

When the tracking gain is raised, the noise when the 2-axis device operates increases.

When the tracking gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

When the tracking gain adjustment is off, the symptoms below occur.

When the tracking gain adjustment is off, the symptoms below occur.

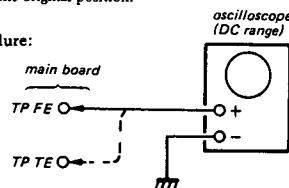
Gain	Focus	Tracking
When music starts, the disc does not start and continues to rotate. (Normally takes 2 seconds.)	low	low or high
When the disc is not start and continues to rotate. (Normally takes 2 seconds.)	—	low
When the disc opens shortly after the disc is pressed.	low or high	—
When the disc is interrupted during operation. Or time count stops progress.	—	low
When the disc is interrupted during operation. Or time count stops progress.	high	high

The following is a simple adjustment method.

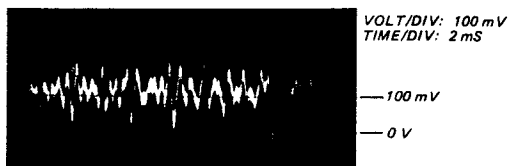
Simple Adjustment

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

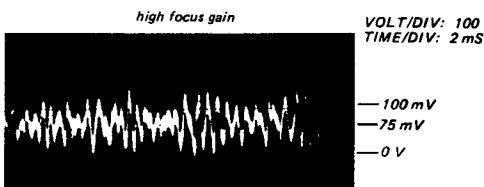
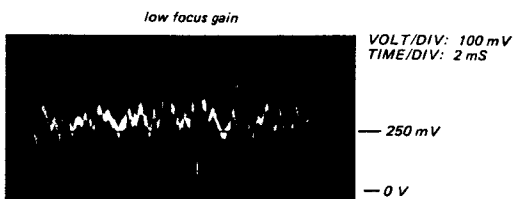
Procedure:



1. Keep the set horizontal.
If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.
2. Put set in adjustment mode. (See page 13.)
3. Insert disc (YEDS-1) and press ►PLAY button.
4. Connect oscilloscope to servo board TP FE.
5. Adjust RV203 so that the waveform is as shown in the figure below. (focus gain adjustment)



- Incorrect Examples (DC level changes more than on adjusted waveform)

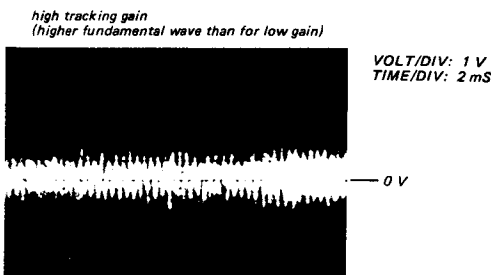
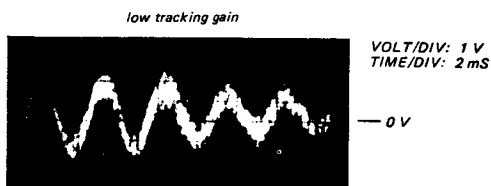


6. Connect oscilloscope to main board TP TE.

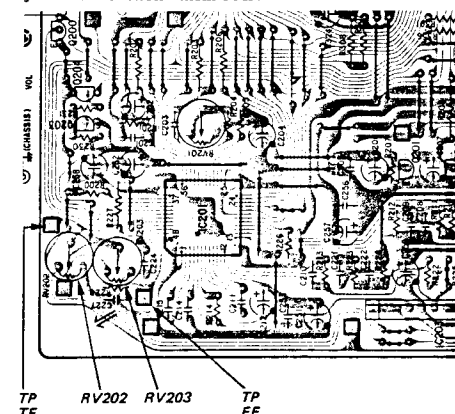
7. Adjust RV304 so that the waveform is as shown in the figure below. (tracking gain adjustment)



- Incorrect Examples (fundamental wave appears)

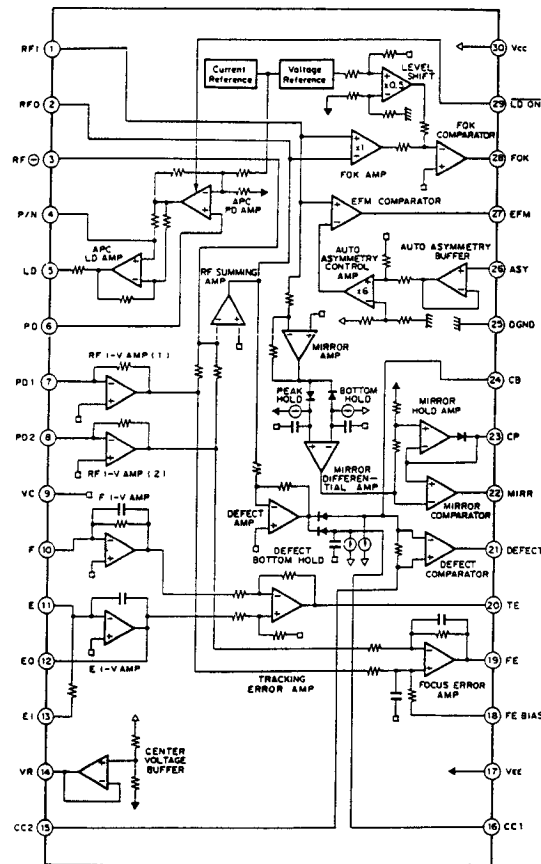


Adjustment Location: main board

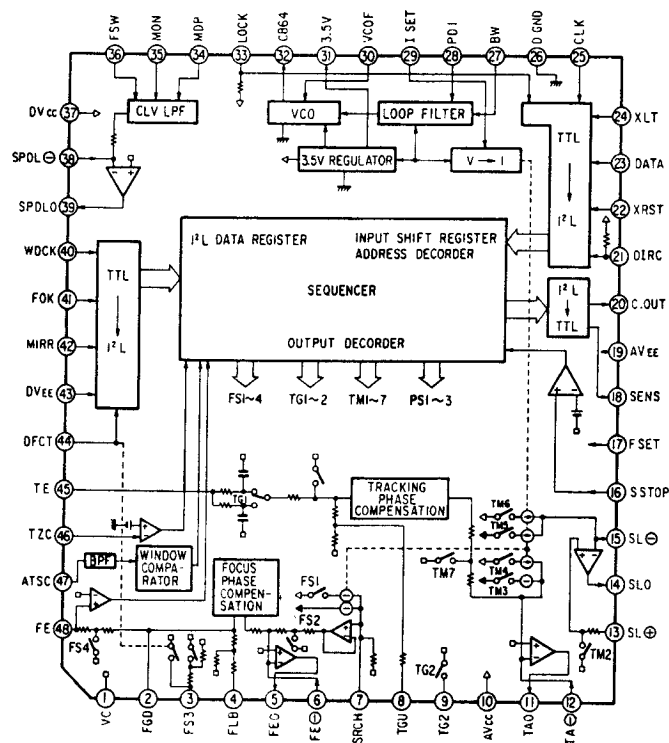


IC BLOCK DIAGRAM

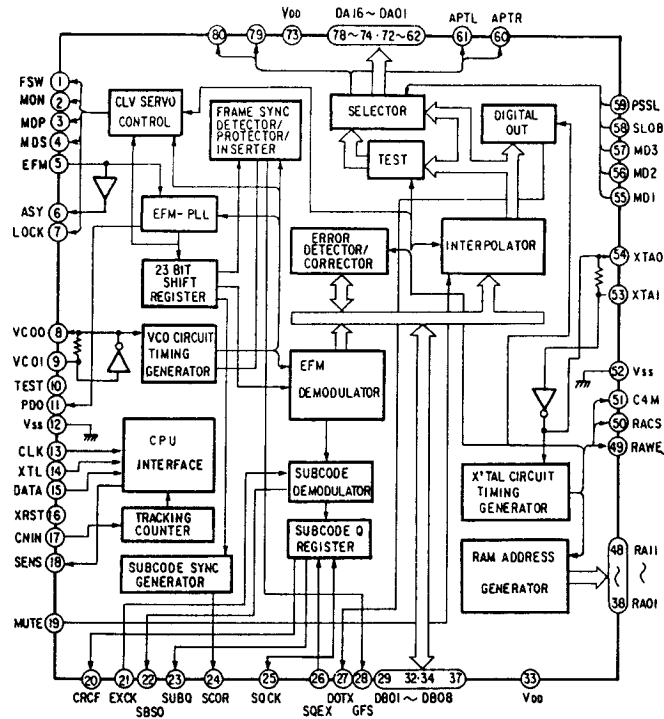
IC101
CXA1081M



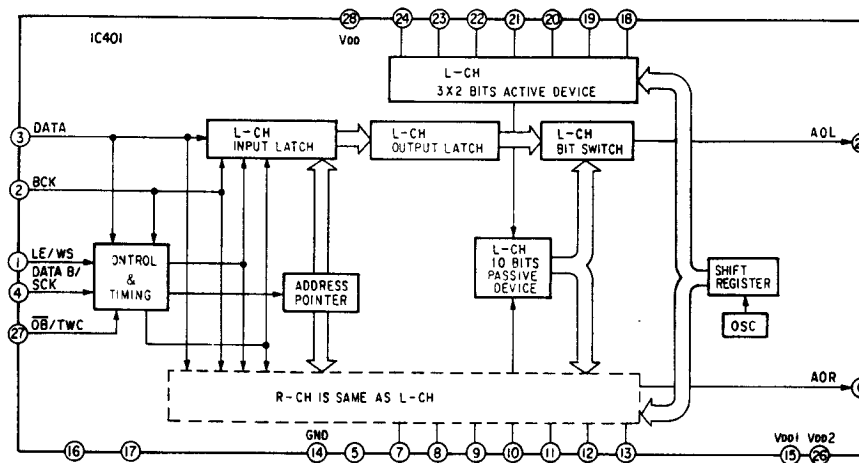
IC201
CXA1082Q



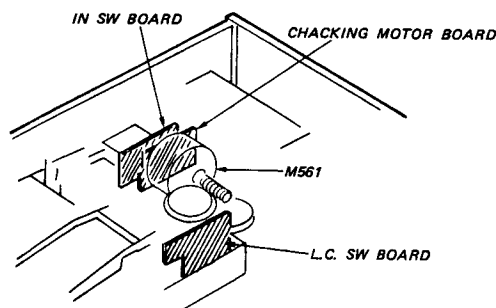
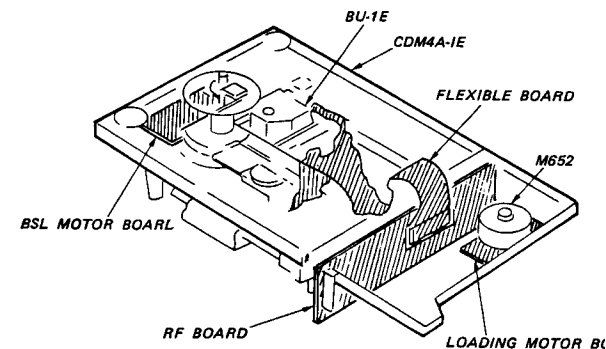
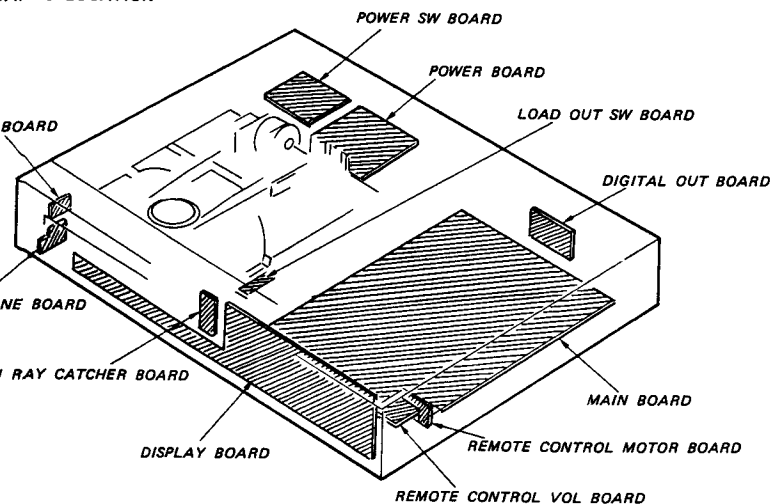
IC301
CXD1125Q



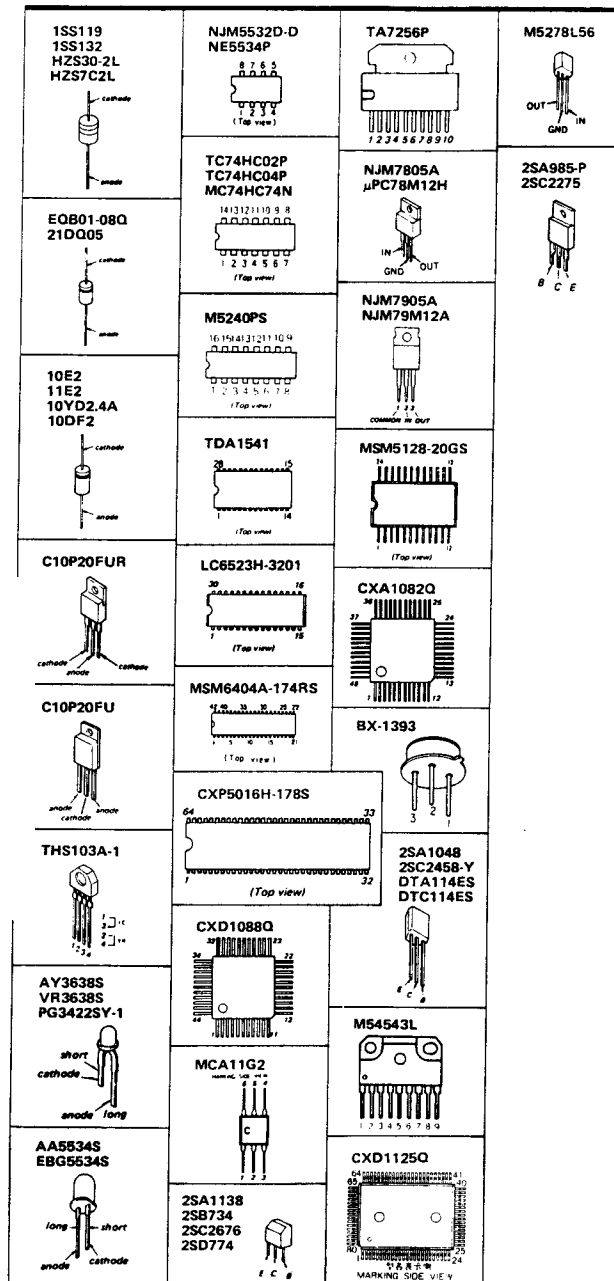
IC307
CXD-1088Q



BOARDS LOCATION



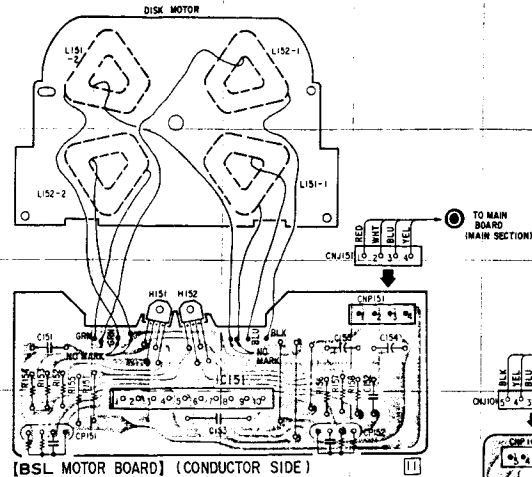
Semiconductor Lead Layouts



Note: SCHEMATIC DIAGRAM

- : B+ bus.
- : B- bus.
- : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with VOM (50 k Ω /V).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with respect to ground with oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Switches:

Ref. No.	Switch	Position
S480	DIGITAL OUT	OFF
S651	LOAD IN DET	ON
S652	LOAD OUT DET	OFF
S653	MOTOR SELECT	CHUCKING MOTOR
S654	CHUCKING	ON
S700	1	OFF
S701	2	OFF
S702	3	OFF
S703	4	OFF
S704	5	OFF
S705	6	OFF
S706	7	OFF
S708	8	OFF
S709	9	OFF
S710	10	OFF
S711	11	OFF
S712	12	OFF
S713	13	OFF
S714	14	OFF
S716	15	OFF
S717	16	OFF
S718	17	OFF
S719	18	OFF
S720	19	OFF
S721	20	OFF
S722	DISPLAY TIME/NEXT (PGM)	OFF
S724	16	OFF
S725	17	OFF
S726	18	OFF
S727	19	OFF
S728	20	OFF
S729	PROGRAM	OFF
S730	SHUFFLE	OFF
S732	+10	OFF
S733	0	OFF
S734	CHECK	OFF
S735	CLEAR	OFF
S736	CONTINUE	OFF
S737	SINGLE	OFF
S738	REPEAT	OFF
S739	COUNT	OFF
S740	AMS	OFF
S741	AMS	OFF
S742	INDEX	OFF
S743	INDEX	OFF
S744		OFF
S745		OFF
S746	AUTO PAUSE	OFF
S747	AUTO SPACE	OFF
S901	POWER	OFF



MOUNTING DIAGRAM

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D200	I-17	D885	D-17	IC812	J-22
D302	H-21	D890	D-18	IC852	C-17
D303	C-22			IC853	D-17
D304	F-22	IC201	F-17	IC862	C-17
D305	F-26	IC202	I-16		
D307	G-23	IC203	H-16	Q200	E-19
D390	A-10	IC301	F-19	Q201	H-18
D700	G-13	IC302	G-20	Q202	H-18
D701	G-14	IC303	I-20	Q203	E-18
D702	G-14	IC304	I-21	Q204	E-18
D703	G-11	IC305	I-19	Q301	G-22
D704	G-9	IC307	E-20	Q302	G-22
D705	I-8	IC308	G-22	Q303	H-22
D800	I-23	IC309	H-22	Q700	H-6
D801	J-23	IC310	G-21	Q701	H-5
D810	I-24	IC390	A-9	Q702	H-5
D811	I-25	IC401	E-22	Q703	H-4
D812	J-24	IC402	C-20	Q704	H-4
D816	J-25	IC403	E-21	Q800	H-25
D870	B-15	IC410	E-24	Q801	H-25
D871	B-16	IC411	F-25	Q802	I-24
D872	B-16	IC412	E-25	Q803	I-25
D873	B-17	IC413	G-24	Q810	K-25
D874	C-15	IC480	J-4	Q811	K-25
D875	C-15	IC511	C-25	Q812	J-24
D876	B-15	IC512	D-25	Q813	J-25
D877	B-15	IC700	I-10	Q861	D-16
D878	C-15	IC710	J-6	Q864	B-17
D879	C-15	IC800	I-22	Q865	C-15
D882	B-17	IC801	D-21	Q866	D-17
D883	B-18	IC802	D-21		
D884	D-16	IC811	E-21		

Note:

- — : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.

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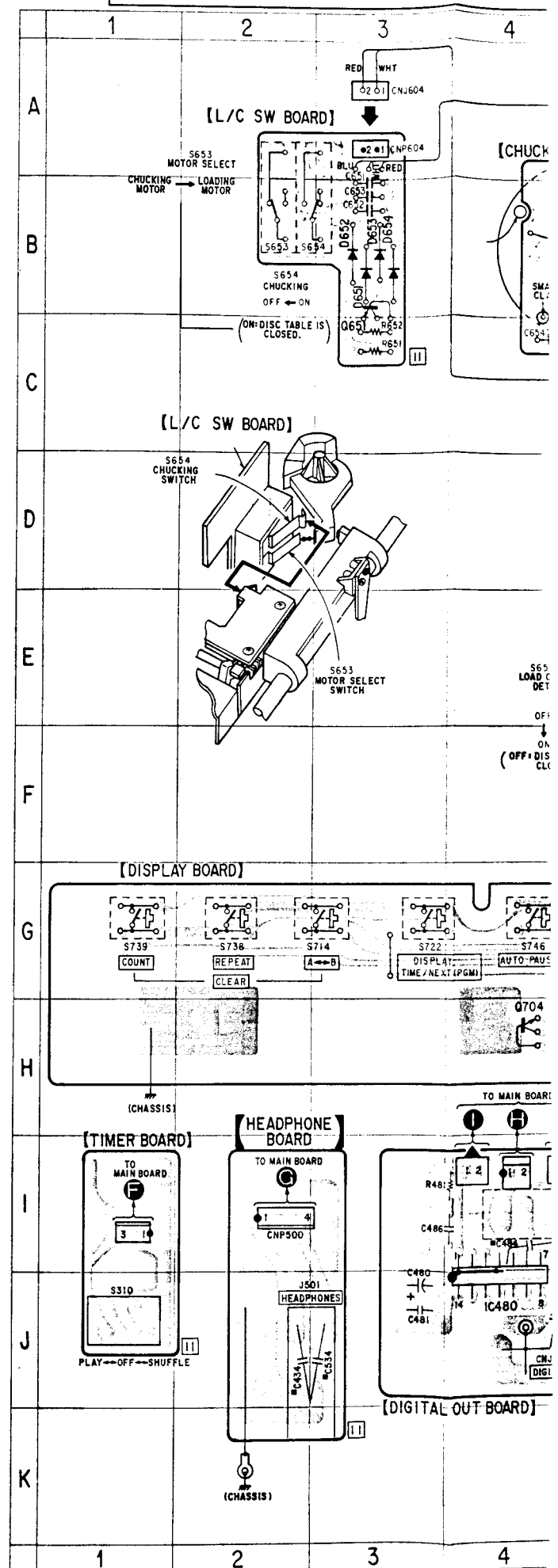
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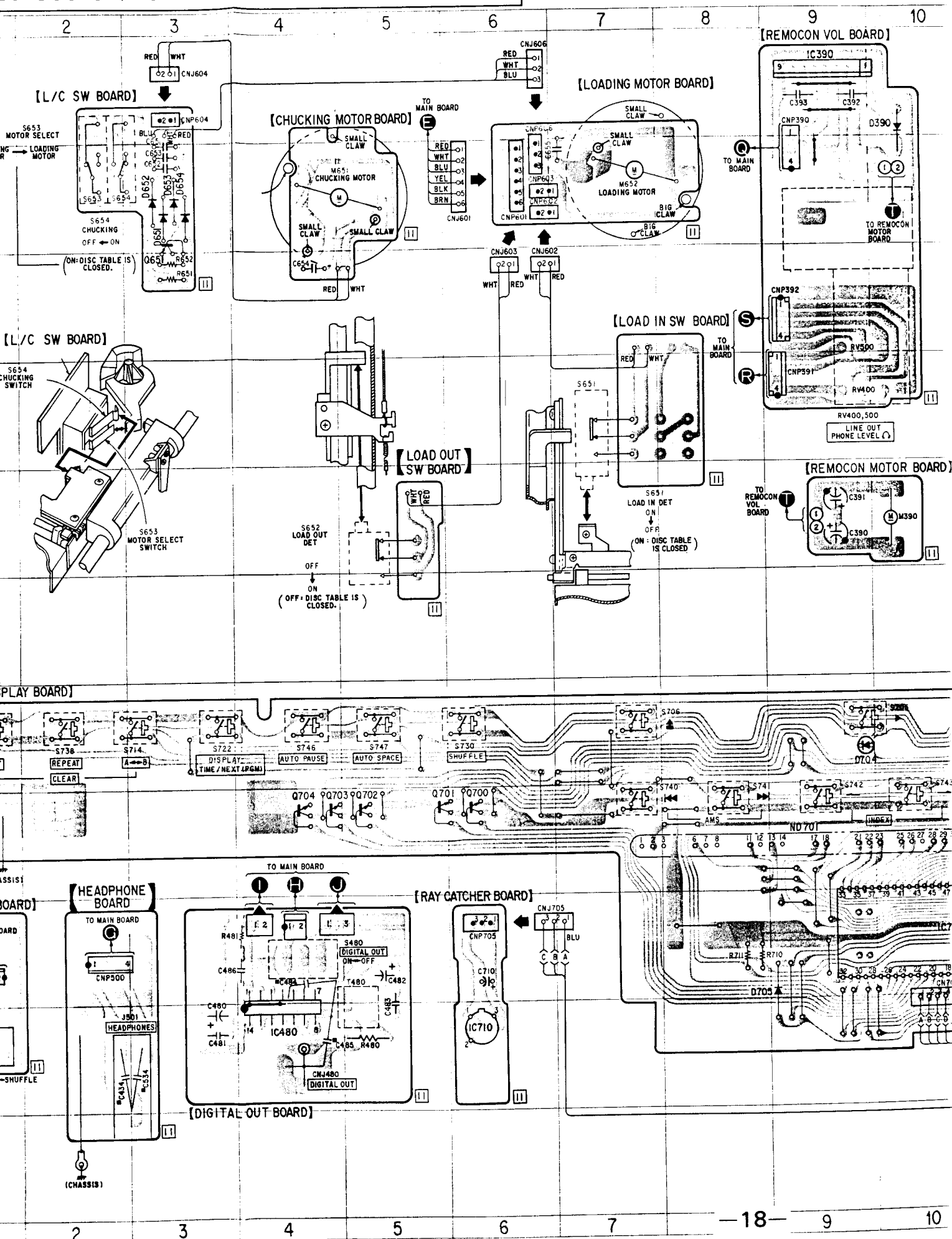
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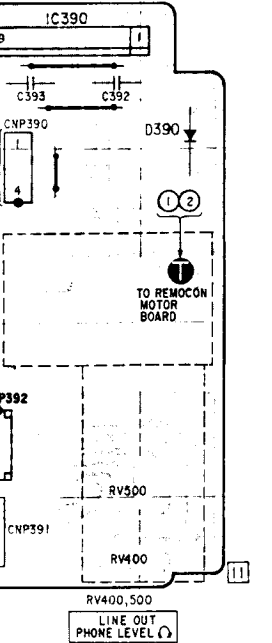
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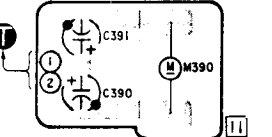




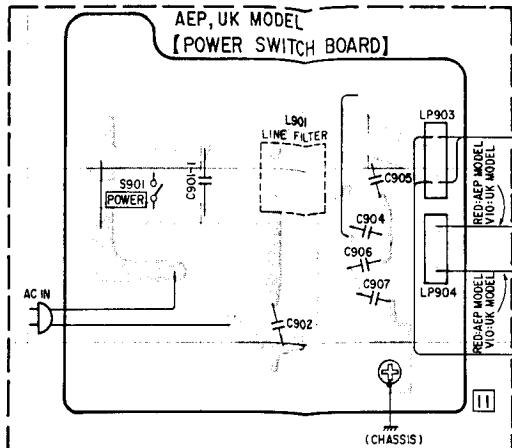
REMOCON VOL BOARD



REMOCON MOTOR BOARD

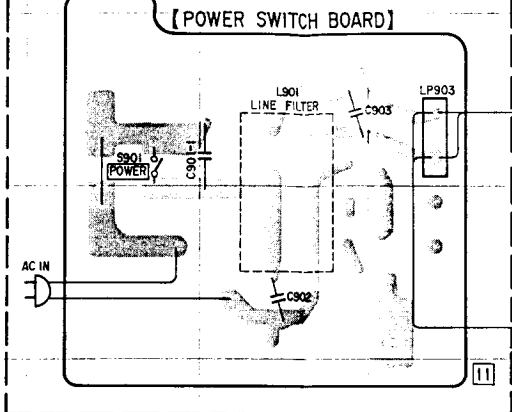


AEP, UK MODEL [POWER SWITCH BOARD]

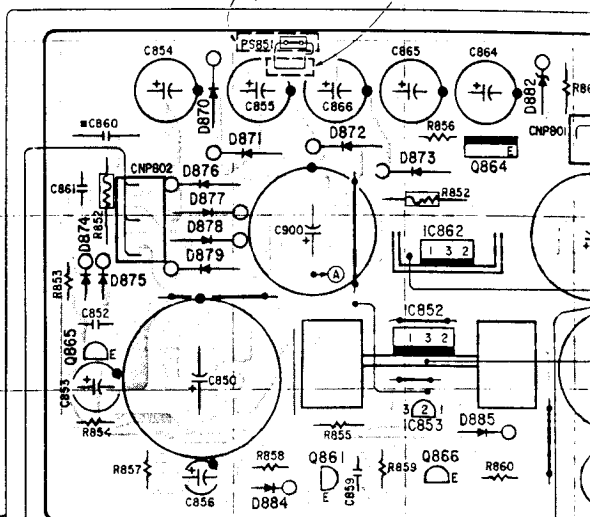


US MODEL

[POWER SWITCH BOARD]



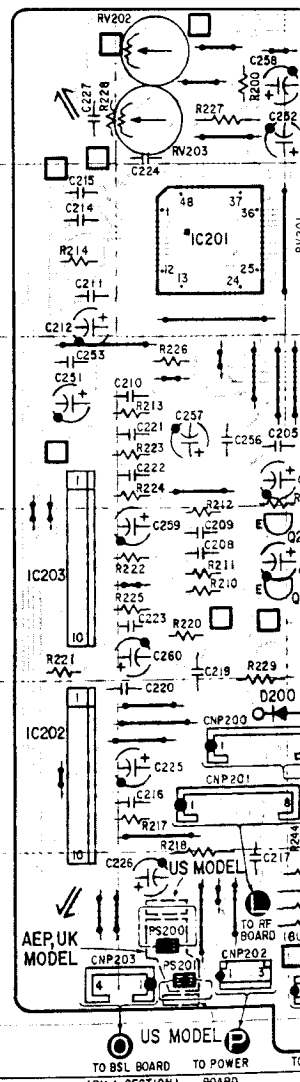
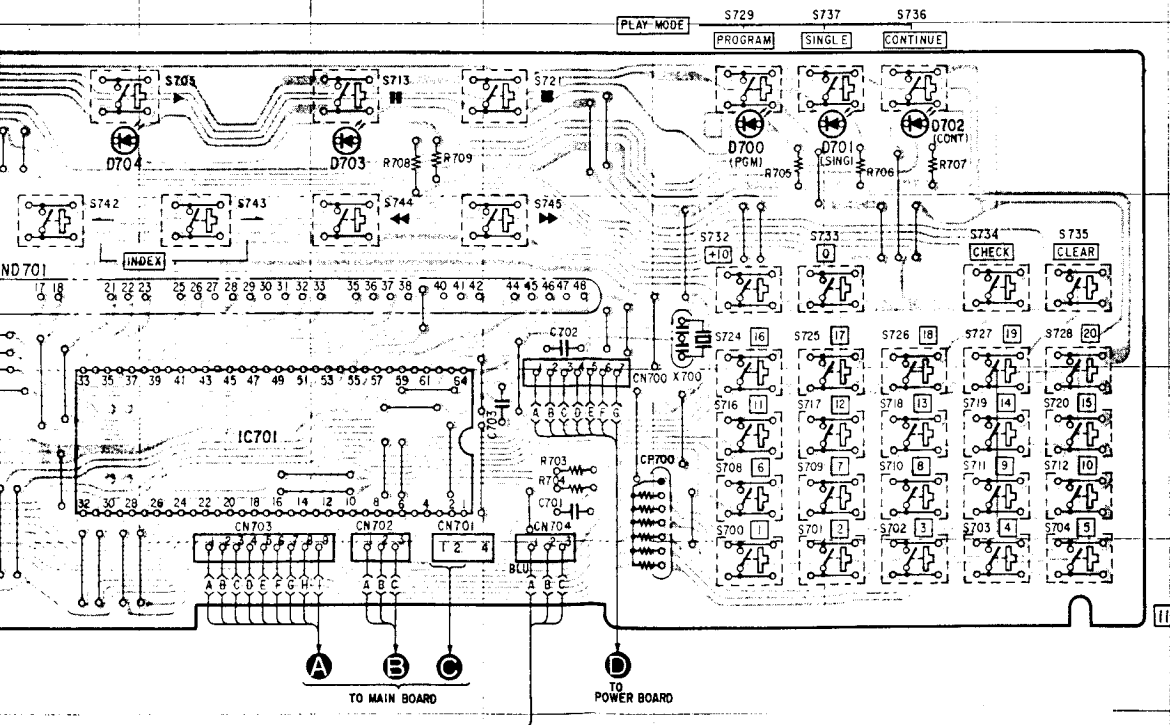
AEP, UK MODEL US MODEL



T901 POWER TRANSFORMER

T902 POWER TRANSFORMER

PLAY MODE S729 S737 S736 PROGRAM SINGLE CONTINUE

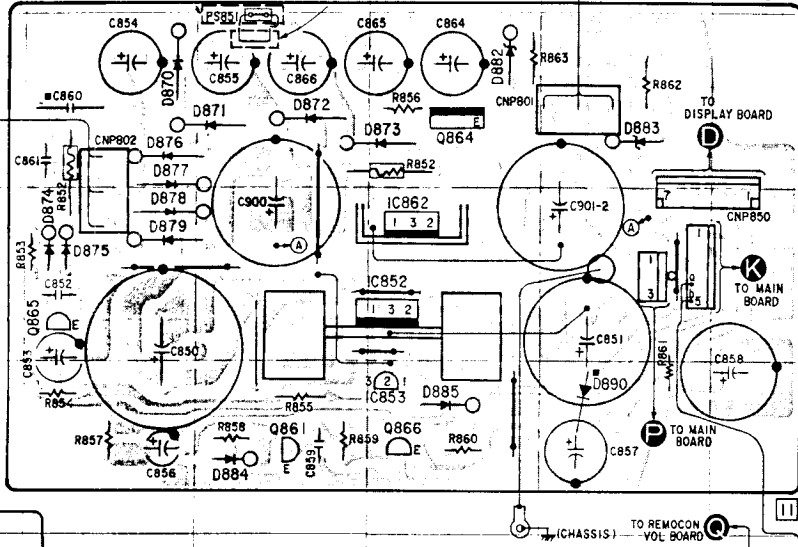


US MODEL TO BSL BOARD (18U-1 SECTION) TO POWER BOARD

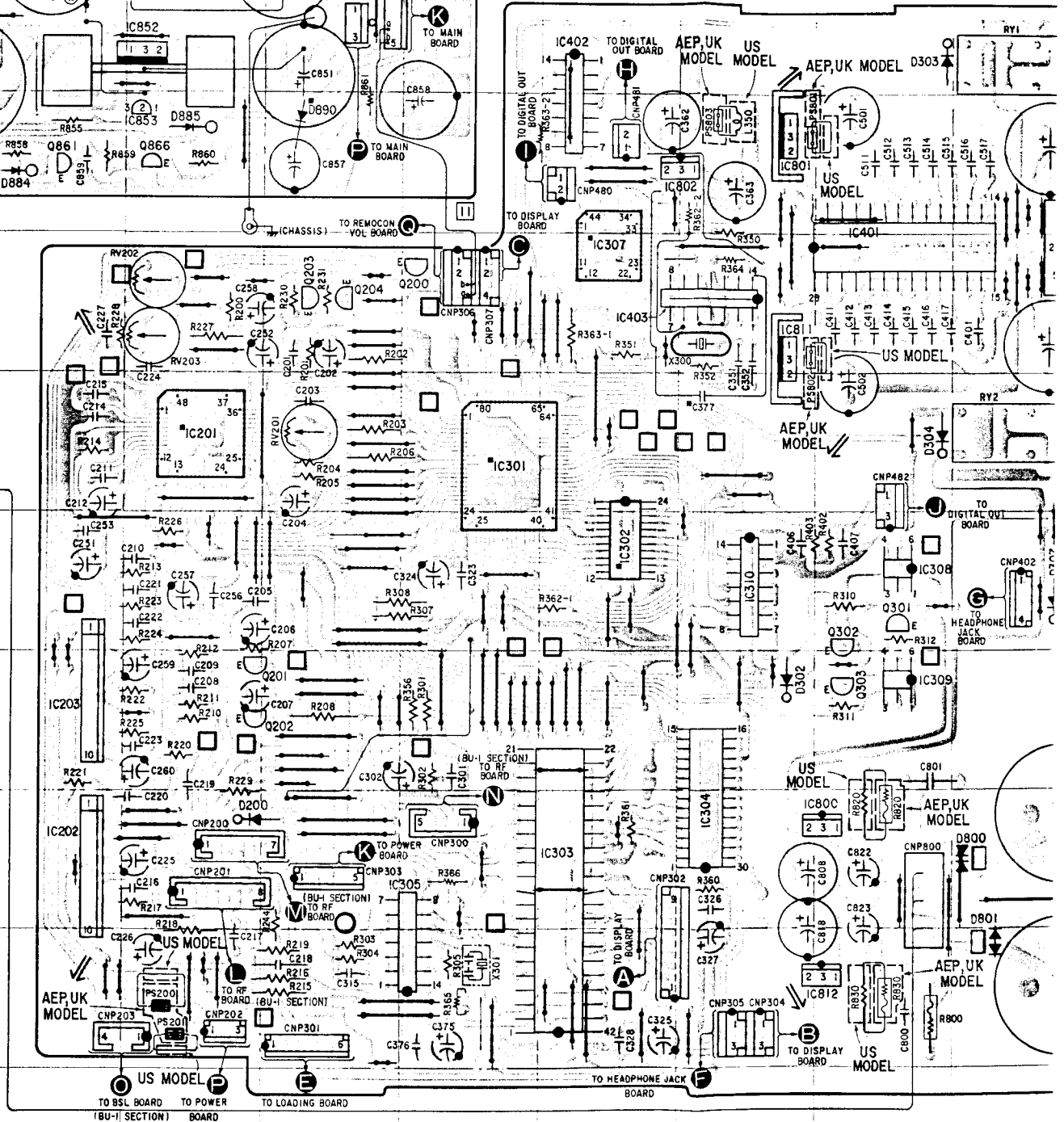
15 16 17 18 19 20 21 22 23

AEP,UK MODEL US MODEL

[POWER BOARD]

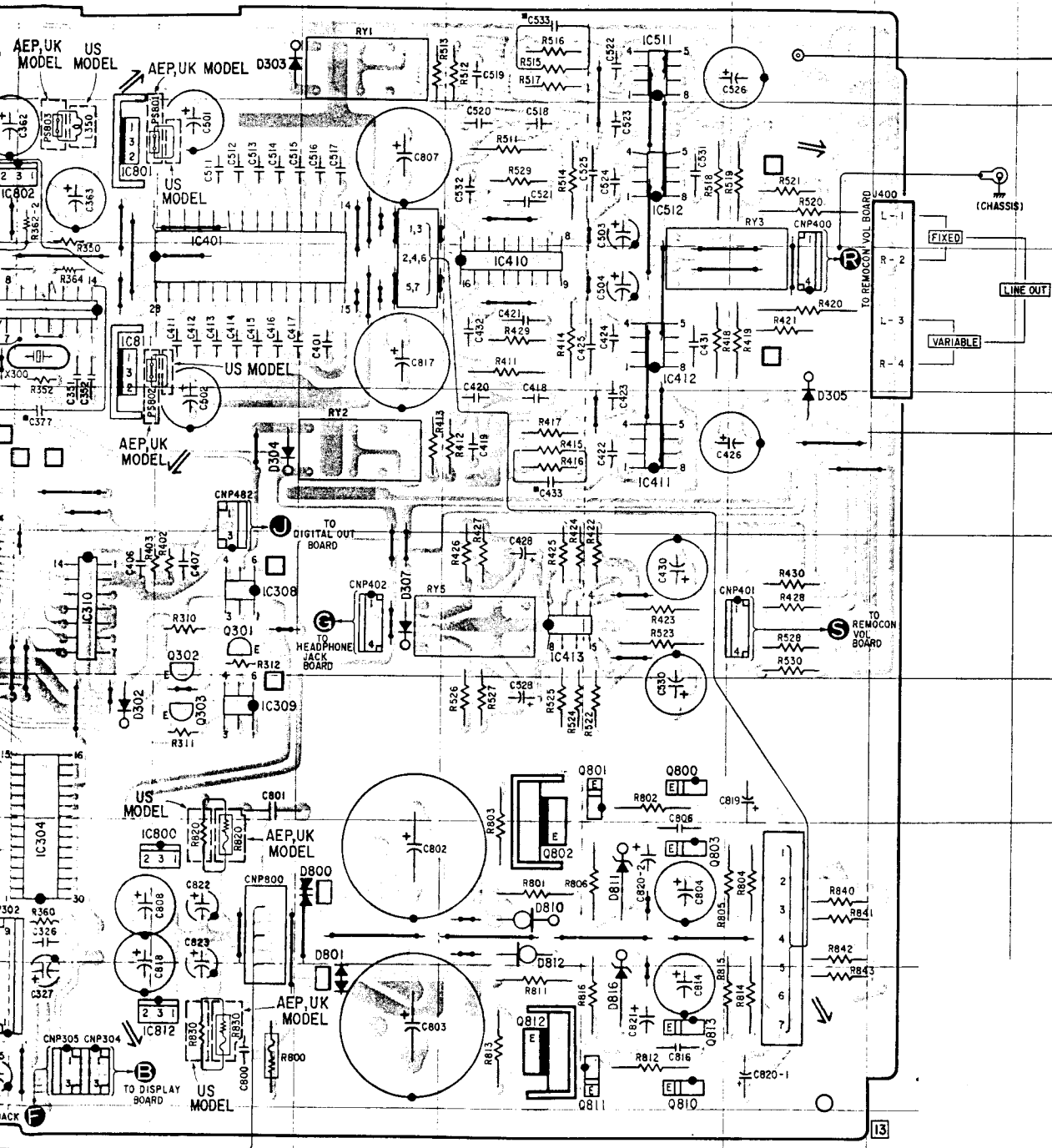


[MAIN BOARD]



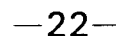
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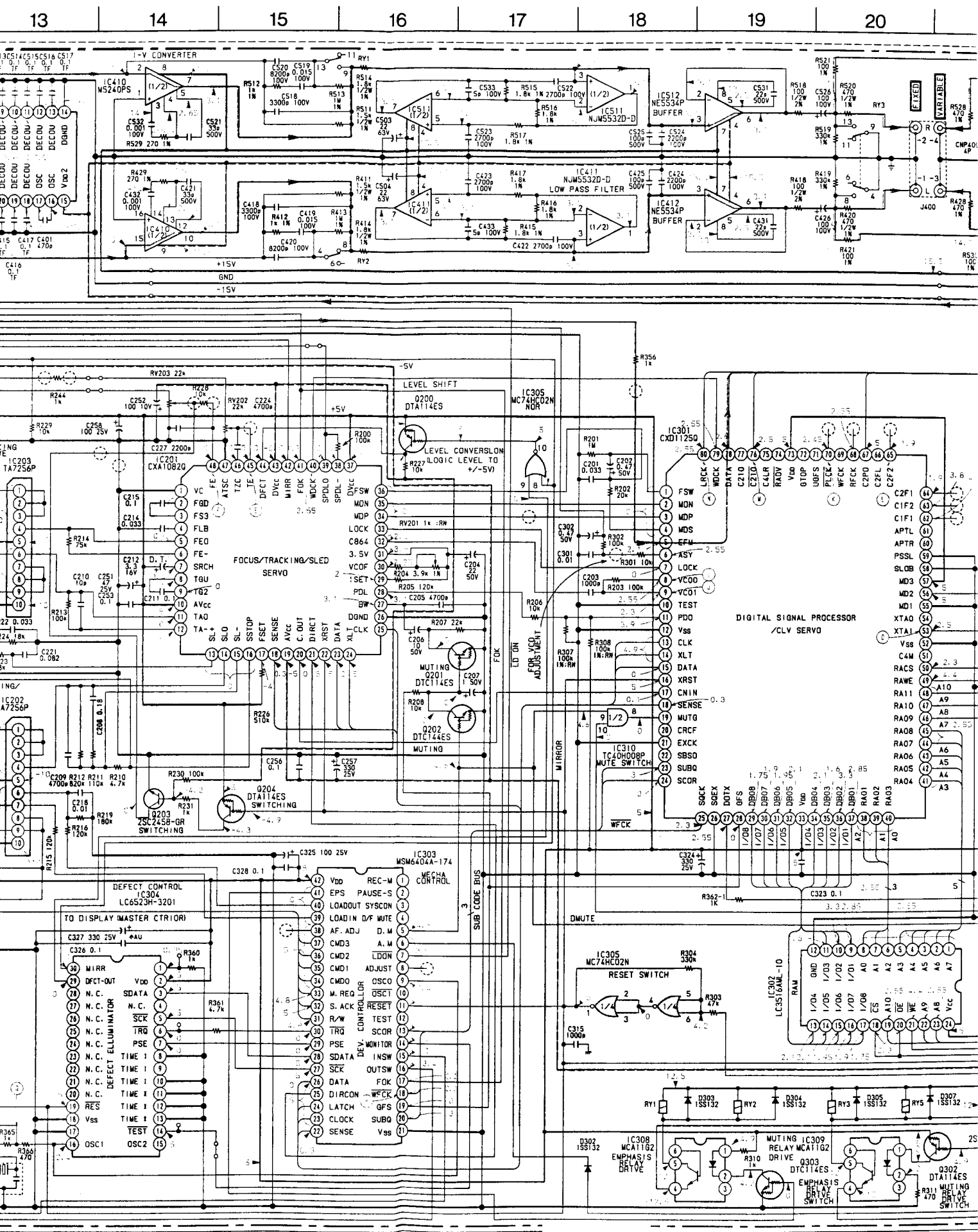
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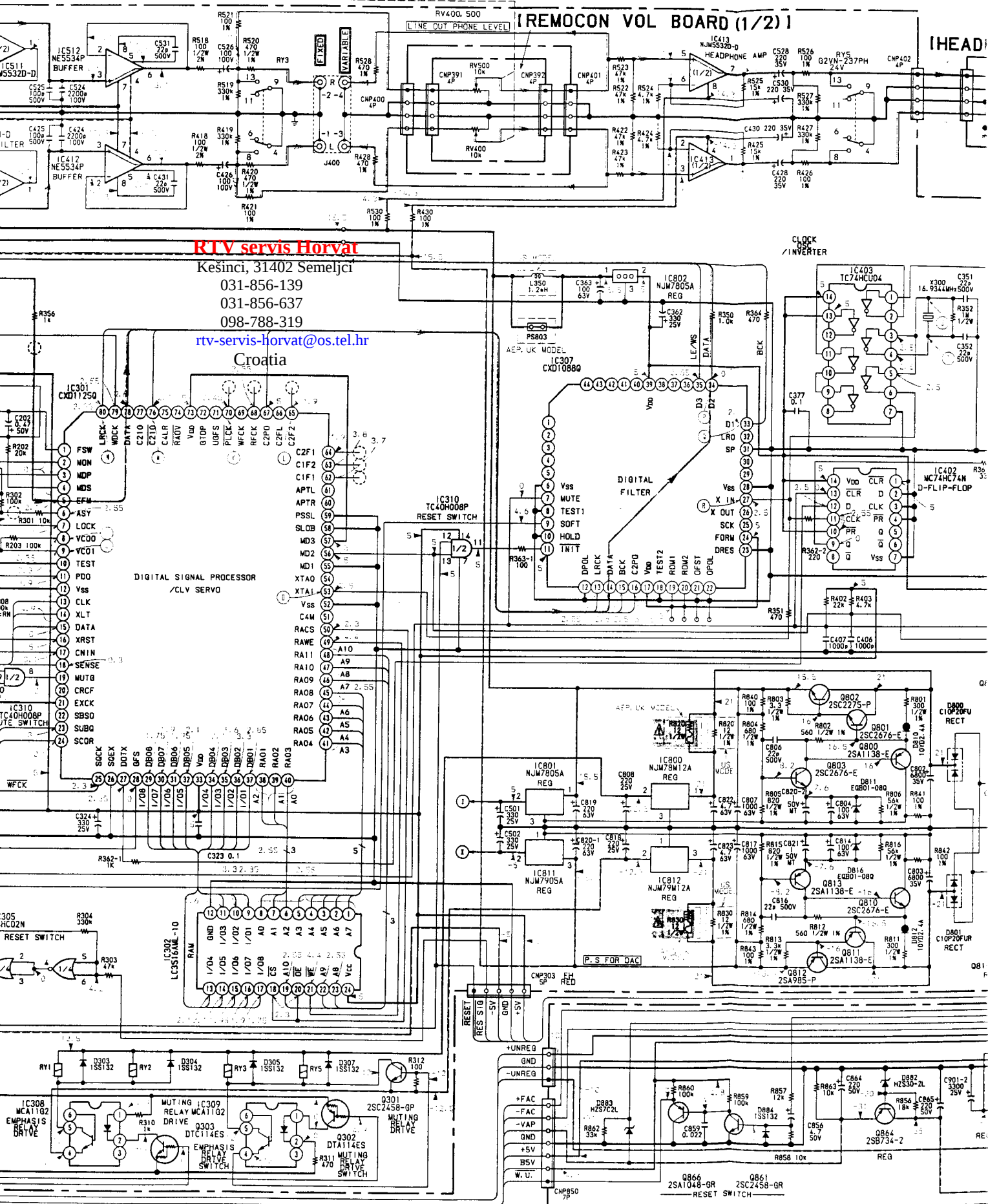


21 22 23 24 25-20- 26 27 28

Croatia



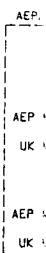




[HEADPHONE BOARD]

— Continued on page 10

⚠ are critical
part number :



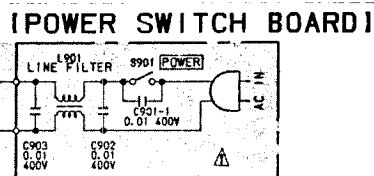
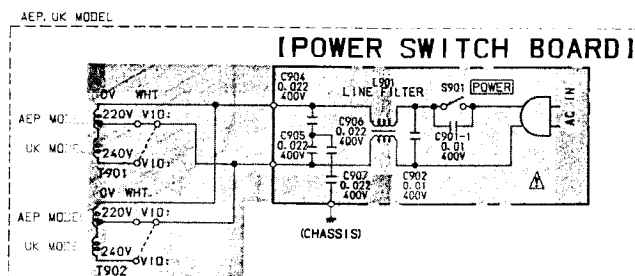
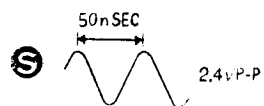
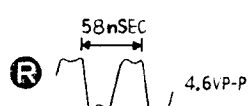
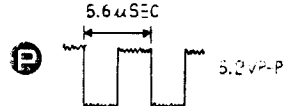
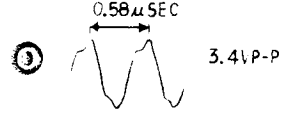
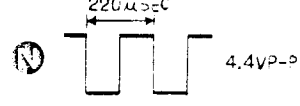
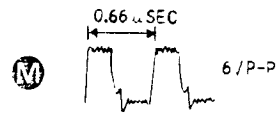
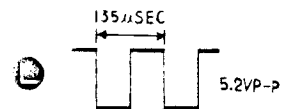
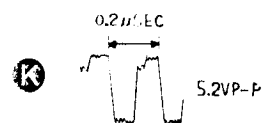
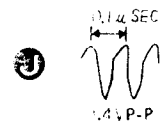
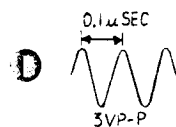
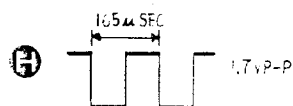
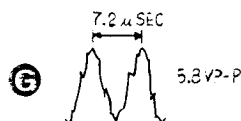
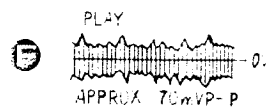
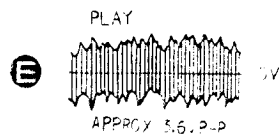
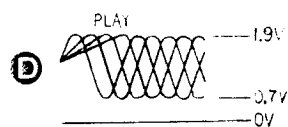
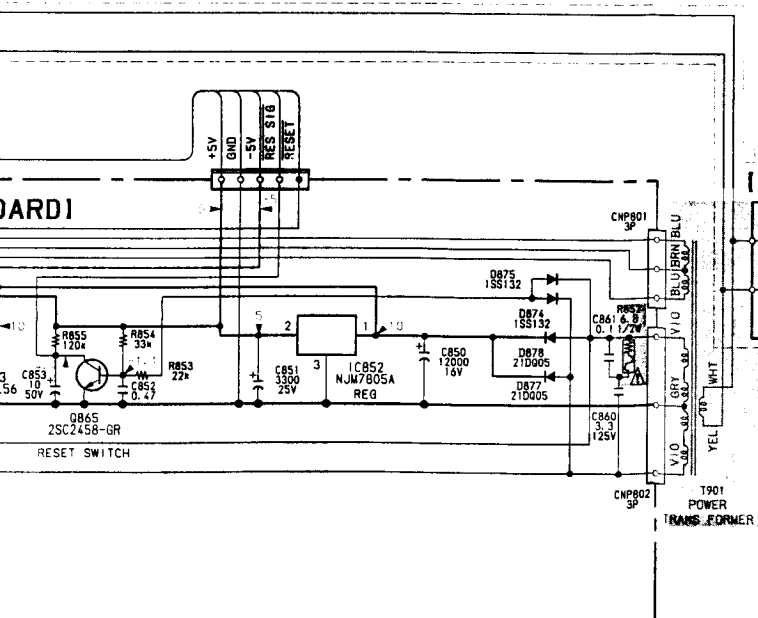
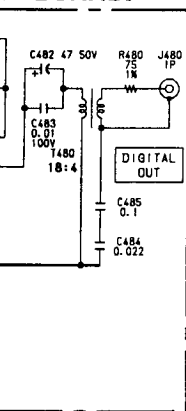
Note:

- All capacitors are in μF unless otherwise noted. pF ; μF 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.
 -  : signal path.
 -  : fusible resistor.
- Continued on page 14 —

— Continued on page 14 —

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

T BOARD



EXPLODED VIEWS AND PARTS LIST

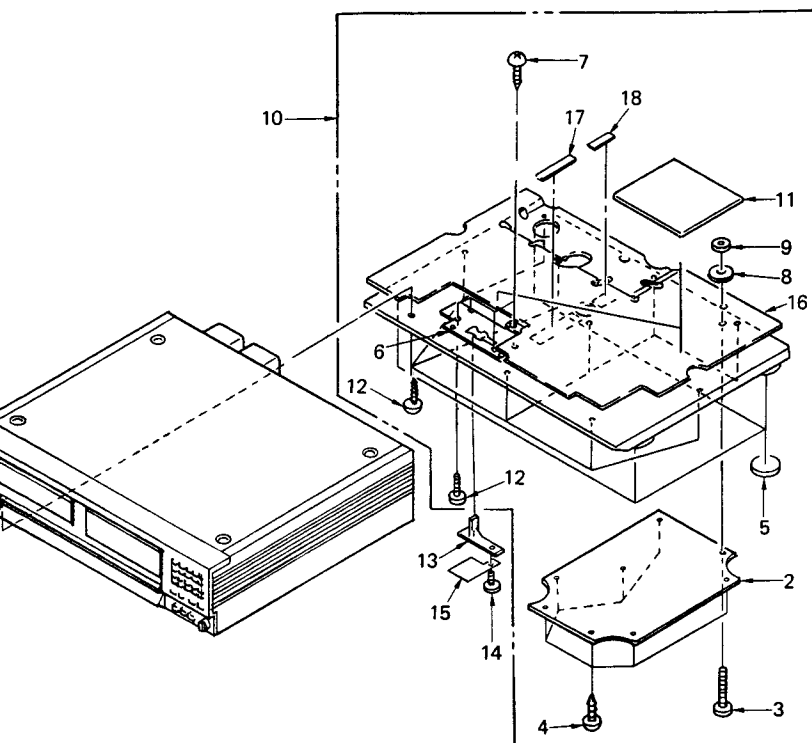
Mechanical parts with no reference number in the exploded views are not stocked.

Marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The construction parts of an assembled part are indicated with a collation number in the remark column.

Color Indication of Appearance Parts
Example: (RED) KNOB, BALANCE (WHITE)
Cabinet's Color Parts' Color

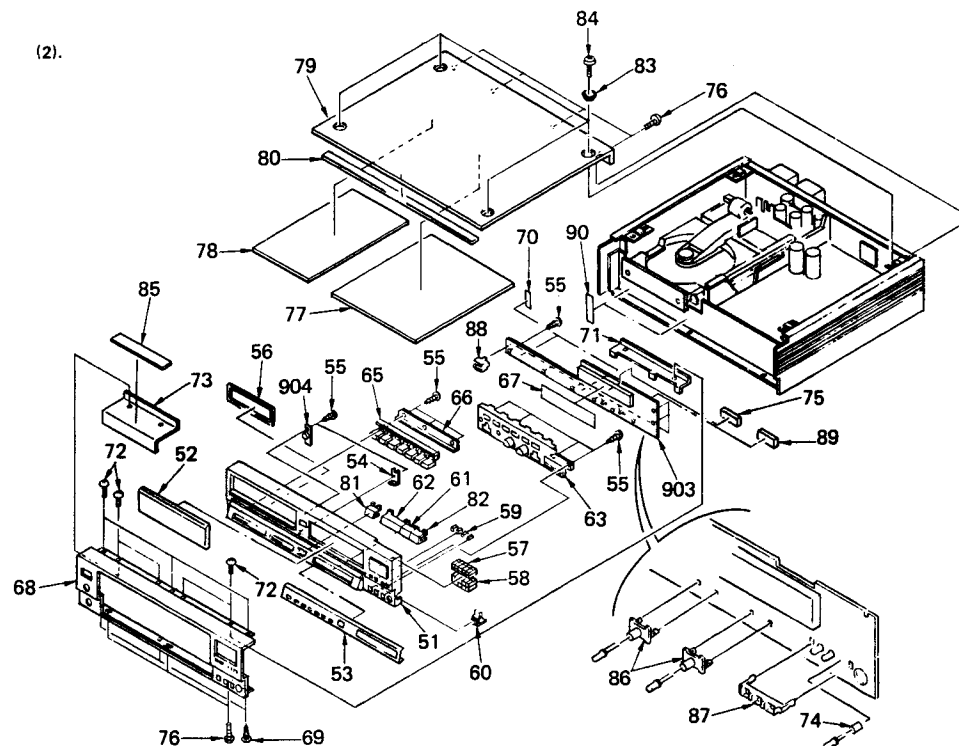
The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.



Part No.	Description
03-710-41	STICKER, SONY SYMBOL (12)
13-181-01	PLATE, BOTTOM, SHIELD
82-153-09	SCREW +P 3X20
85-647-79	SCREW +BVTP 3X10 TYPE2 SLIT FOOT (B)
13-180-01	PLATE, LOCK, TRANSPORT
85-646-79	SCREW +BVTP 3X8 TYPE2 SLIT WASHER
90-173-00	N 3, TYPE 2

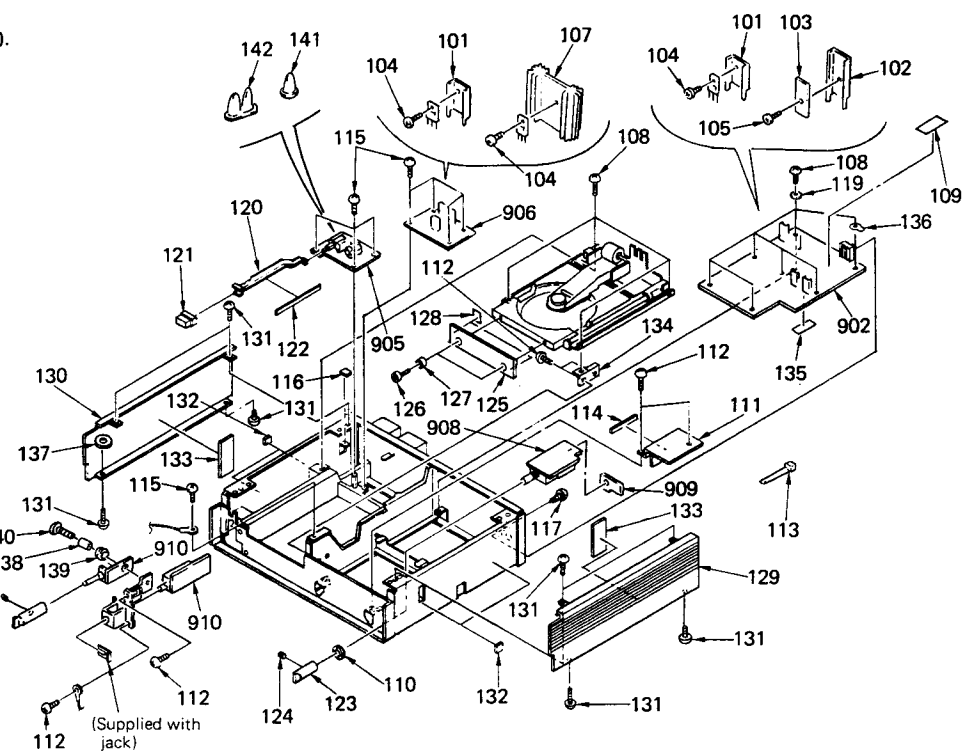
No.	Part No.	Description	Remarks
10	*A-4675-207-A	CHASSIS ASSY, G	
11	4-913-189-11	FELT (B), ACOUSTIC ABSORBENT	
12	*4-919-203-01	SCREW (3.5X12), + BVTP	
13	*4-913-155-01	LEVER (B), TRANSPORT LOCK	
14	3-323-470-01	SCREW (B3X6), (+ -)	
16	4-919-216-01	PLATE (B), BOTTOM, SHIELD	
17	4-919-217-01	CUSHION (A)	
18	4-919-218-01	CUSHION (B)	

(2).



No.	Part No.	Description	Remarks
51	X-4908-930-1	BASE ASSY (B), PANEL	
52	4-913-131-01	PLATE, TRANSPARENT	
53	4-913-150-01	PANEL, CONTROL BUTTON	
54	*4-913-136-01	BRACKET (A), PANEL	
55	7-685-534-11	SCREW +BTP 2.6X8 TYPE2 N-S	
56	*4-913-128-01	PLATE, SHIELD	
57	4-912-950-21	BUTTON, 10 GANG	
58	4-912-950-31	BUTTON, 10 GANG	
59	4-912-949-01	BUTTON, 4 GANG	
60	4-913-135-01	BUTTON, MODE	
61	X-4908-922-1	BUTTON ASSY, PAUSE	
62	X-4908-923-1	BUTTON ASSY, PLAY	
63	*4-913-156-01	RETAINER, BUTTON	
65	4-913-142-01	BUTTON, REPEAT	
66	*4-913-132-01	RETAINER, BUTTON	
67	*4-913-126-01	FILTER	
68	X-4908-932-2	(US).....PANEL ASSY (AEP/UK).....PANEL ASSY	
69	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 M-S	
70	3-831-441-XX	CUSHION, SPEAKER	
71	*4-913-147-01	RETAINER (A), BASE	

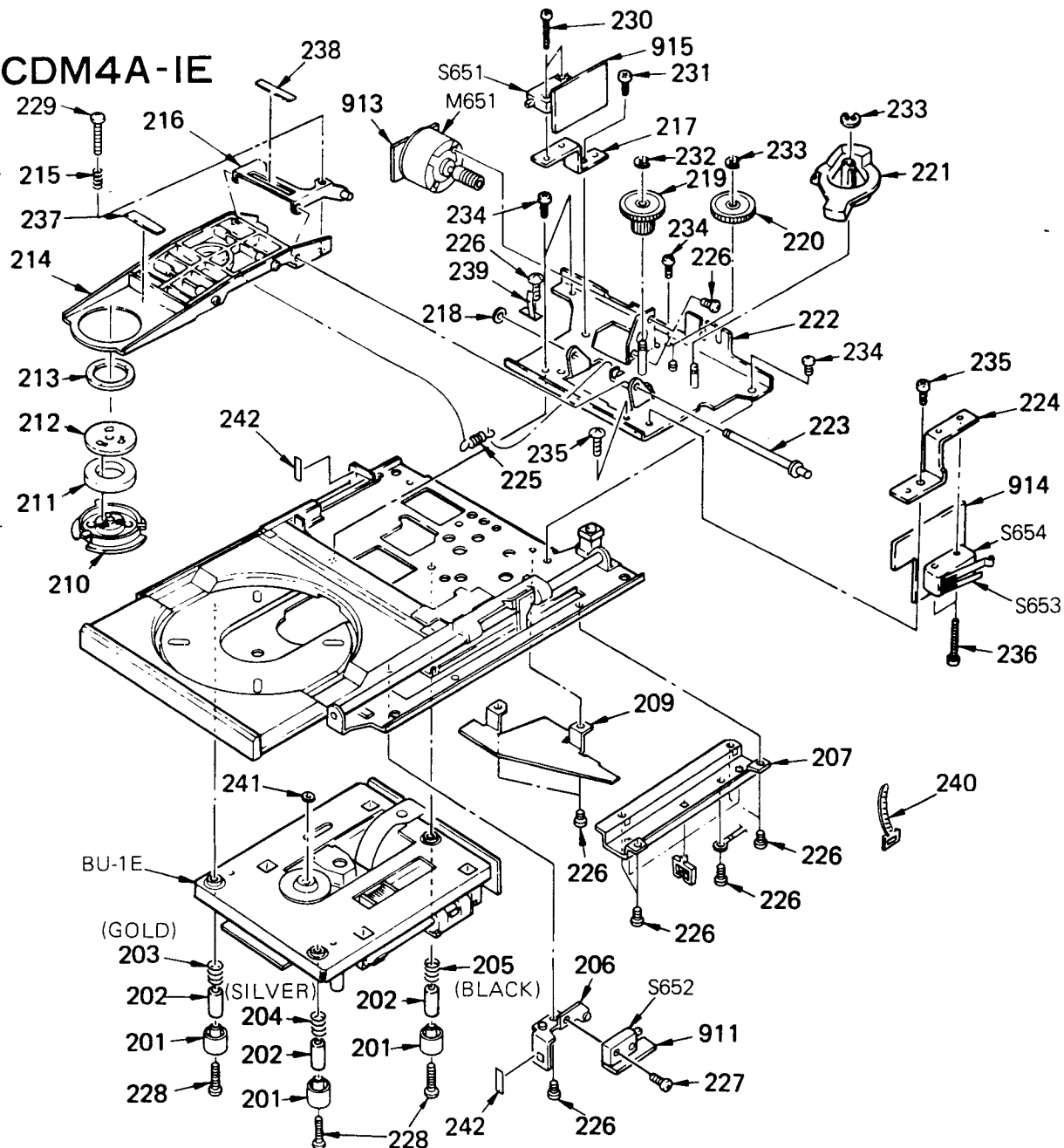
No.	Part No.	Description	Remarks
72	7-685-871-01	SCREW +BVTP 3X6 (S)	
73	*4-913-146-01	RETAINER (B), BASE	
74	3-888-002-00	CUSHION, LED	
75	*3-324-837-01	CUSHION	
76	3-703-685-31	SCREW (+BV 3X8)	
77	4-913-192-11	FELT (A), ACOUSTIC ABSORBENT	
78	*4-913-188-01	FELT (C), ACOUSTIC ABSORBENT	
79	4-913-173-01	PLATE, TOP	
80	*4-913-194-01	CUSHION (A), TOP BOARD	
81	4-913-149-21	KNOB (PAUSE), T	
82	4-913-149-11	KNOB (PAUSE), T	
83	4-913-170-01	RING, FIXED	
84	7-682-549-09	SCREW +B 3X10	
85	*4-919-207-11	CUSHION, BASE RETAINER	
86	*4-913-139-01	SPACER (A), LED	
87	*4-913-141-01	HOLDER, LED	
88	*4-913-140-01	PLATE, GROUND	
89	*4-913-186-01	CUSHION, RUBBER	
90	*3-846-311-00	SPACER (D)	
903	*1-620-818-11	PC BOARD, DISPLAY	
904	*1-620-819-11	PC BOARD, REMOCON RAY CATCHER	



No.	Part No.	Description	Remarks
101	*3-309-144-01	HEAT SINK	
102	*4-886-555-00	HEAT SINK	
103	4-870-272-00	HEAT SINK	
104	2-259-121-00	SCREW, TR	
105	2-259-121-11	SCREW, TR	
106	4-919-215-01	BRACKET (H)	
107	*4-908-502-01	HEAT SINK	
108	7-685-752-04	SCREW +BVTT 3X8 (S)	
109	*4-909-140-01	REINFORCEMENT, MOLD	
110	4-908-963-01	NUT, SPECIAL	
111	*4-913-168-01	PLATE, SHIELD	
112	4-911-049-01	SCREW (3X8)	
113	3-655-653-21	BAND (TAITON), BINDING	
114	*4-913-197-01	CUSHION (B), CHASSIS	
115	7-685-871-01	SCREW +BVTT 3X6 (S)	
116	9-911-839-XX	RETAINER (B), MICROPHONE	
117	4-909-982-11	SCREW, TAPPING	
118	4-908-961-01	WASHER	
119	*4-917-459-01	LEVER, POWER SWITCH	
120	4-917-460-01	KNOB, POWER	
121			
122	*4-913-190-01	DUMPER (LEVER)	
123	4-913-169-01	KNOB, VOLUME	
124	3-701-505-00	SET SCREW, DOUBLE POINT 3X3	
125	4-913-154-01	PANEL, LOADING	

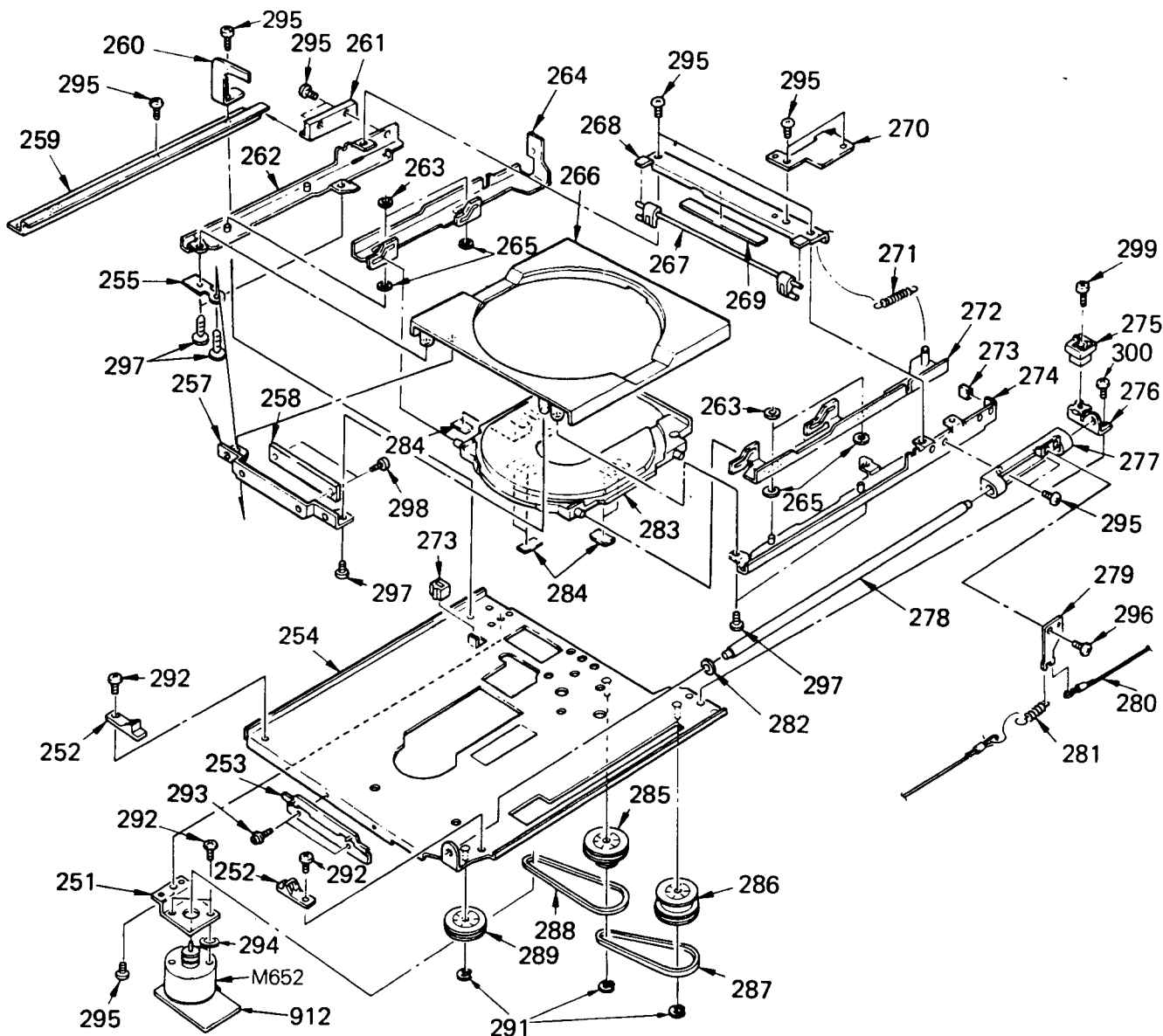
No.	Part No.	Description	Remarks
126	7-683-412-05	BOLT, HEXAGON SOCKET 2.6X6	
127	4-884-635-00	BASE, ORNAMENTAL	
128	*4-912-948-01	CUSHION, LOADING PANEL	
129	4-913-172-01	PLATE (RIGHT), SIDE	
130	4-913-171-01	PLATE (LEFT), SIDE	
131	3-703-685-31	SCREW (+BV 3X8)	
132	*4-919-201-01	CUSHION (E), CHASSIS	
133	*4-913-198-01	CUSHION (C), CHASSIS	
134	*4-913-138-01	BRACKET, MD	
135	*4-919-208-01	REINFORCEMENT (B), IC	
136	4-870-539-00	PLATE GROUND	
137	3-564-542-11	WASHER, FIBER	
138	*3-661-588-00	SPACER (3X5)	
139	4-302-211-00	BUSHING, RUBBER	
140	7-685-873-01	SCREW +BVTT 3X10 (S)	
141	*4-912-962-01	COVER (1P), TERMINAL	
142	*4-912-963-01	COVER (2P), TERMINAL	
143	*A-4651-124-A	MOUNTED PCB, MAIN	
144	905	PC BOARD, POWER SWITCH	
906	*1-620-820-11	PC BOARD, POWER	
	*1-621-022-11	PC BOARD, POWER	
908	*1-621-025-11	PC BOARD, REMOTE CONTROL VOL	
909	*1-621-026-11	PC BOARD, REMOTE CONTROL MOTOR	
910	*1-622-225-11	PC BOARD, HEADPHONE	
920	*1-622-226-11	PC BOARD, TIMER	

(5). CDM4A-IE



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	4-908-592-01	POLE (A), INSULATOR		226	7-621-775-00	SCREW +B 2.6X3	
202	4-908-636-01	SPACER		227	7-621-259-55	SCREW +P 2.6X8	
203	4-912-548-01	SPRING, COMPRESSION		228	7-682-153-09	SCREW +B 3X20	
204	4-912-547-01	SPRING, COMPRESSION		229	7-621-775-80	SCREW +B 2.6X16	
205	4-912-549-01	SPRING, COMPRESSION		230	7-685-864-01	SCREW +BVTT 2.6X10 (S)	
206	*4-908-541-01	BRACKET (C), SWITCH		231	7-682-646-09	SCREW +PS 3X5	
207	*X-4908-517-1	COVER ASSY, ROPE		232	7-624-109-04	STOP RING 5.0, TYPE -E	
209	*4-908-597-01	COVER, BELT		233	7-624-106-04	STOP RING 3.0, TYPE -E	
210	4-912-530-01	PULLEY, PRESS		234	7-682-546-04	SCREW +BVTT 3X5 (S)	
211	1-452-340-11	MAGNET		235	7-682-544-09	SCREW +B 3X3	
212	*4-912-515-01	YOKE		236	7-671-257-85	SCREW +P 2.3X14	
214	*X-4912-509-1	ARM ASSY, C		237	*4-912-551-01	SHEET (C), DT PS	
215	4-908-559-01	SPRING, COMPRESSION		238	*4-912-552-01	SHEET (B), DT PS	
216	X-4908-513-1	PLATE ASSY, ADJUSTMENT, ARM		239	*4-912-569-01	PLATE (B), GROUND	
217	*4-912-543-01	BRACKET (D), SWITCH		240	3-701-748-00	CLAMP	
218	3-558-708-21	WASHER, STOPPER		241	*4-912-553-01	SPACER (D)	
219	4-912-514-01	GEAR (A)		242	*4-913-199-01	CUSHION (D), CHASSIS	
220	4-912-525-01	GEAR (B)		911	*1-617-229-11	PC BOARD, LOAD OUT SW	
221	4-912-528-01	GEAR, CAM		913	*1-617-231-11	PC BOARD, CHUCKING MOTOR	
222	*X-4912-503-1	CHASSIS ASSY, SUB		914	*1-617-232-11	PC BOARD, L.C. SWITCH	
223	4-908-513-01	SHAFT, FULCRUM, C ARM		915	*1-617-233-11	PC BOARD, IN SWITCH	
224	*4-912-524-01	BRACKET (A), SWITCH		M651	X-4902-019-1	CHUCKING MOTOR ASSY	
225	4-908-555-01	SPRING, TENSION (C ARM)					

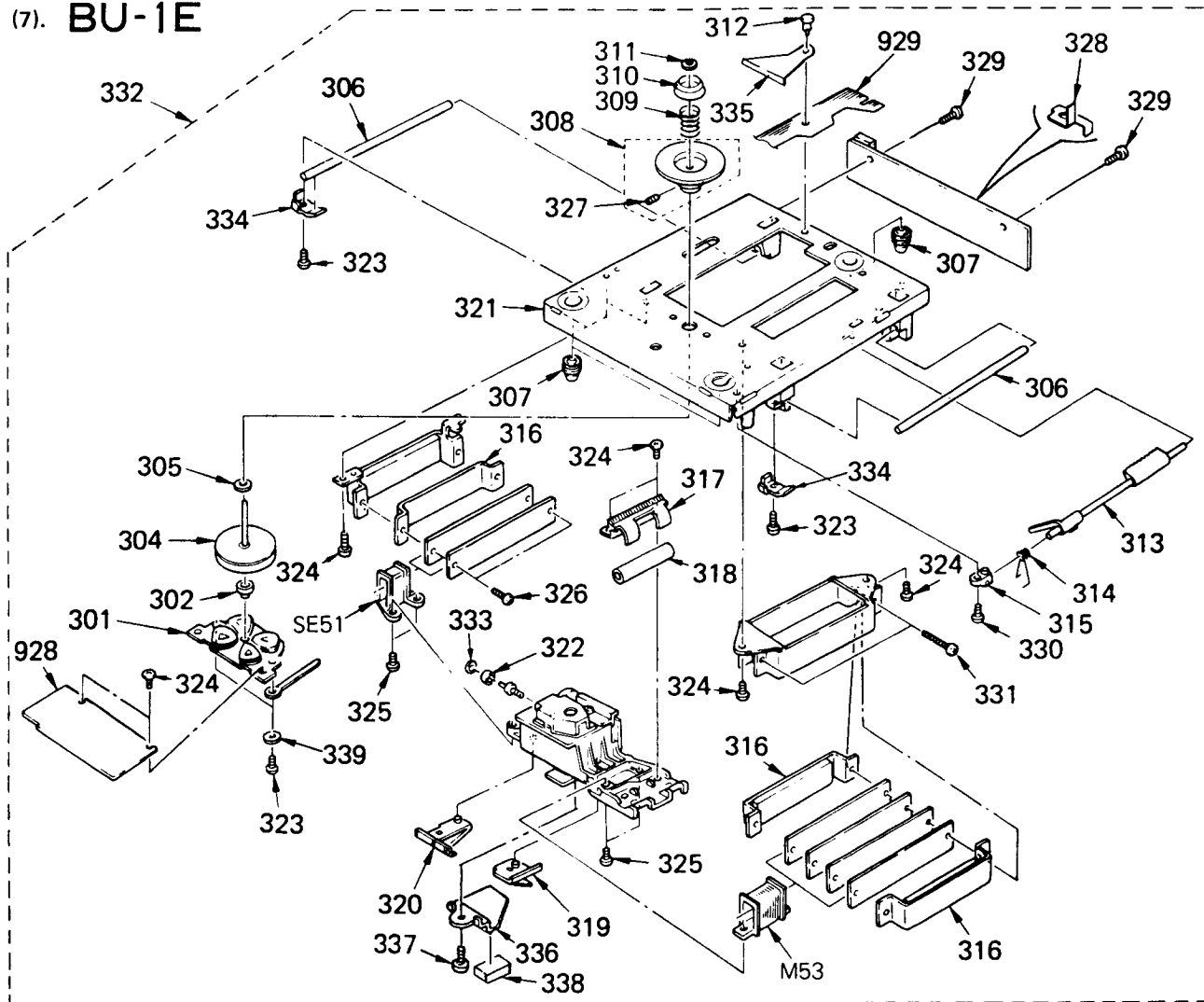
(6). CDM4A-IE



No.	Part No.	Description	Remarks
251	*4-908-523-01	BRACKET, MOTOR	
252	4-908-540-01	GUIDE, ASSIST	
253	*X-4912-508-1	BRACKET ASSY, TABLE	
254	*X-4912-507-1	CHASSIS ASSY, MECHANICAL	
255	*4-912-568-01	PLATE (A), GROUND	
257	*4-912-566-01	BRACKET, L PANEL	
258	*4-912-544-01	PLATE, FIXED	
259	*4-912-529-01	GUIDE, LOADING	
260	*4-912-527-01	RETAINER, TABLE	
261	*4-912-534-01	GUIDE, SUB	
262	*X-4912-504-1	BRACKET (LEFT) ASSY, TABLE	
263	3-558-708-21	WASHER, STOPPER	
264	*4-912-531-01	PLATE (LEFT), CAM, DISK	
265	3-701-439-11	WASHER	
266	4-908-584-03	TABLE, DISK	
267	4-908-534-01	LEVER, FUNCTION	
268	*4-912-532-01	REINFORCEMENT, TABLE	
269	*4-912-526-01	SHEET	
270	*4-912-522-01	PLATE, SW	
271	4-912-516-01	SPRING (DISK CAM), TENSION	
272	*X-4912-506-1	PLATE (RIGHT) ASSY, CAM, DISK	
273	4-887-175-00	RUBBER, STOPPER	
274	*X-4912-505-1	BRACKET (RIGHT) ASSY, TABLE	
275	*4-912-513-01	STOPPER, TABLE	
276	*4-912-519-01	RETAINER (RIGHT), SHAFT	

No.	Part No.	Description	Remarks
277	4-912-538-01	BEARING (RIGHT), GUIDE	
278	4-912-521-01	SHAFT (RIGHT), GUIDE	
279	*4-912-520-01	BRACKET, ROPE	
280	4-912-517-01	ROPE	
281	4-908-553-01	SPRING, COMPRESSION (ROPE)	
282	4-912-512-01	CUSHION (A)	
283	X-4912-511-1	PLATE ASSY, DISK	
284	*4-908-964-01	SHEET, PS, DT	
285	4-908-519-01	PULLEY (A)	
286	4-908-525-01	PULLEY (C)	
287	3-671-077-00	BELT, FF	
288	4-908-591-01	BELT, DRIVING	
289	4-908-524-01	PULLEY (B)	
291	7-624-106-04	STOP RING 3.0, TYPE -E	
292	7-621-775-00	SCREW +B 2.6X3	
293	7-621-759-60	+PSW, 2.6X8	
294	3-554-222-00	WASHER (2), CAPSTAN	
295	7-682-546-04	SCREW +BVTT 3X5 (S)	
296	7-685-132-19	SCREW +BTP 2.6X5 TYPE2 N-S	
297	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT	
298	7-685-791-04	SCREW +BVTT 2.6X5 (S)	
299	7-685-876-01	SCREW +BVTT 3X16 (S)	
300	7-682-646-09	SCREW +PS 3X5	
912	*1-617-230-11	PC BOARD, LOADING MOTOR	
M652	A-4608-303-A	MOTOR ASSY, LOADING	

(7). BU-1E



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
301	A-4675-068-A	BRACKET ASSY, MOTOR		323	7-685-134-19	SCREW +P 2.6X8 TYPE2 SLIT	
302	2-622-105-01	RETAINER, THRUST		324	7-621-284-00	SCREW +B 2.6X4	
303	A-4675-069-A	ROTOR ASSY		325	7-621-775-20	SCREW +B 2.6X5	
304	3-701-439-21	WASHER		326	7-685-793-04	SCREW +BVTT 2.6X8 (S)	
305	4-908-201-03	SHAFT, SLIDE		327	7-621-734-09	SET-SCT, HEX. 2.6X3	
306				328	*4-908-232-01	LUG, GROUND	
307	4-908-593-01	INSULATOR		329	7-685-864-01	SCREW +BVTT 2.6X10 (S)	
308	X-4908-202-1	PULLEY ASSY, DISK		331	7-685-867-01	SCREW +BVTT 2.6X16 (S)	
309	4-908-213-01	SPRING, COMPRESSION		332	X-4915-033-1	BU-1E	
310	4-915-217-01	CAP, CENTERING		333	7-624-105-04	STOP RING 2.3, TYPE -E	
311	3-558-708-21	WASHER, STOPPER		334	4-908-245-01	RETAINER (C, SHAFT, SLIDE	
312	3-531-576-01	RIVET		335	*4-908-254-01	RETAINER BOARD	
313	4-908-227-01	LEVER, LOCK		336	*4-908-255-01	SUPPORT, PC BOARD	
314	4-908-230-01	SPRING		337	7-682-546-09	SCREW +B 3X6	
315	4-908-220-01	HOLDER, ROD		338	*4-919-205-01	CUSHION	
316	*A-4675-110-A	MAGNET ASSY, LINEAR		339	7-688-002-01	W 2.6, SMALL	
317	4-908-224-01	HOLDER, BEARING		340	*4-908-269-01	CUSHION, SLIDE	
318	4-908-221-01	BEARING		918	*1-620-663-11	PC BOARD, BSL MOTOR	
319	4-908-225-01	RETAINER (A), LEAD		919	A-4646-215-A	MOUNTED PCB, FLEXIBLE	
320	4-908-219-01	RETAINER (B), LEAD		M53	1-422-197-14	COIL (DRIVE)	
321	*A-4675-112-A	BASE ASSY		SE51	1-422-198-11	COIL (SENSOR)	
322	4-908-208-01	BEARING (NO-FLANGE), BALL					

ELECTRICAL PARTS LIST

NOTE:

- 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:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,

UPD...: μPD...

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	★A-1-555-765-11	(AEP)...CORD, POWER
	★A-1-556-035-11	(UK)...CORD, POWER
	★A-1-557-577-11	(US)...CORD, POWER
902	*A-4651-124-A	MOUNTED PCB, MAIN
903	*1-620-818-11	PC BOARD, DISPLAY
904	*1-620-819-11	PC BOARD, REMOCON RAY CATCHER
905	*1-620-820-11	PC BOARD, POWER SWITCH
906	*1-621-022-11	PC BOARD, POWER
907	*1-622-227-11	PC BOARD, DIGITAL OUT
908	*1-621-025-11	PC BOARD, REMOTE CONTROL VOL
909	*1-621-026-11	PC BOARD, REMOTE CONTROL MOTOR
910	*1-622-225-11	PC BOARD, HEADPHONE
911	*1-617-229-11	PC BOARD, LOAD OUT SW
912	*1-617-230-11	PC BOARD, LOADING MOTOR
913	*1-617-231-11	PC BOARD, CHACKING MOTOR
914	*1-617-232-11	PC BOARD, L.C. SWITCH
915	*1-617-233-11	PC BOARD, IN SWITCH
918	*1-620-663-11	PC BOARD, BSL MOTOR
919	A-4646-215-A	MOUNTED PCB, FLEXIBLE
920	*1-622-226-11	PC BOARD, TIMEP
C201	1-136-159-00	FILM 0.033MF 5% 50V
C202	1-126-043-11	ELECT 0.47MF 20% 50V
C203	1-162-294-31	CERAMIC 0.001MF 10% 50V
C204	1-126-049-11	ELECT 22MF 20% 50V
C205	1-130-479-00	MYLAR 0.0047MF 5% 50V
C206	1-126-048-11	ELECT 10MF 20% 50V
C207	1-126-044-11	ELECT 1MF 20% 50V
C208	1-136-168-00	FILM 0.18MF 5% 50V
C209	1-130-479-00	MYLAR 0.0047MF 5% 50V
C210	1-162-199-31	CERAMIC 10PF 5% 50V
C211	1-136-165-00	FILM 0.1MF 5% 50V
C212	1-131-368-00	TANTALUM 3.3MF 10% 16V
C214	1-136-159-00	FILM 0.033MF 5% 50V
C215	1-136-165-00	FILM 0.1MF 5% 50V
C216	1-161-379-00	CERAMIC 0.01MF 20% 16V
C217	1-161-379-00	CERAMIC 0.01MF 20% 16V
C218	1-161-379-00	CERAMIC 0.01MF 20% 16V
C219	1-161-379-00	CERAMIC 0.01MF 20% 16V
C220	1-161-379-00	CERAMIC 0.01MF 20% 16V
C221	1-136-164-00	FILM 0.082MF 5% 50V
C222	1-136-159-00	FILM 0.033MF 5% 50V
C223	1-161-379-00	CERAMIC 0.01MF 20% 16V
C224	1-130-479-00	MYLAR 0.0047MF 5% 50V
C225	1-123-335-00	ELECT 330MF 20% 25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C226	1-123-335-00	ELECT 330MF 20% 25V
C227	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C251	1-123-332-00	ELECT 47MF 20% 25V
C252	1-124-994-11	ELECT 100MF 20% 10V
C253	1-162-179-11	CERAMIC 0.1MF 50V
C256	1-162-179-11	CERAMIC 0.1MF 50V
C257	1-123-335-00	ELECT 330MF 20% 25V
C258	1-123-333-00	ELECT 100MF 20% 25V
C259	1-123-335-00	ELECT 330MF 20% 25V
C260	1-123-335-00	ELECT 330MF 20% 25V
C301	1-136-153-00	FILM 0.01MF 5% 50V
C302	1-126-043-11	ELECT 0.47MF 20% 50V
C315	1-162-294-31	CERAMIC 0.001MF 10% 50V
C323	1-162-179-11	CERAMIC 0.1MF 50V
C324	1-123-335-00	ELECT 330MF 20% 25V
C325	1-123-333-00	ELECT 100MF 20% 25V
C326	1-162-179-11	CERAMIC 0.1MF 50V
C327	1-123-335-00	ELECT 330MF 20% 25V
C328	1-162-179-11	CERAMIC 0.1MF 50V
C351	1-107-322-00	MICA 22PF 5% 500V
C352	1-107-322-00	MICA 22PF 5% 500V
C362	1-123-335-00	ELECT 330MF 20% 25V
C363	1-124-130-00	ELECT 100MF 20% 63V
C375	1-123-335-00	ELECT 330MF 20% 25V
C376	1-162-179-11	CERAMIC 0.1MF 50V
C377	1-161-974-00	CERAMIC 0.1MF 20% 16V
C390	1-124-994-41	ELECT 100MF 20% 10V
C391	1-124-994-41	ELECT 100MF 20% 10V
C392	1-161-379-00	CERAMIC 0.01MF 20% 16V
C393	1-161-379-00	CERAMIC 0.01MF 20% 16V
C401	1-104-294-11	POLYSTYRENE 470PF 5% 50V
C406	1-162-294-31	CERAMIC 0.001MF 10% 50V
C407	1-162-294-31	CERAMIC 0.001MF 10% 50V
C411	1-136-165-00	FILM 0.1MF 5% 50V
C412	1-136-165-00	FILM 0.1MF 5% 50V
C413	1-136-165-00	FILM 0.1MF 5% 50V
C414	1-136-165-00	FILM 0.1MF 5% 50V
C415	1-136-165-00	FILM 0.1MF 5% 50V
C416	1-136-165-00	FILM 0.1MF 5% 50V
C417	1-136-165-00	FILM 0.1MF 5% 50V
C418	1-136-256-11	FILM 0.0033MF 3% 100V
C419	1-130-892-00	FILM 0.015MF 3% 100V
C420	1-130-848-00	FILM 0.0082MF 3% 100V
C421	1-107-317-00	MICA 33PF 5% 500V
C422	1-130-967-00	FILM 0.0027MF 3% 100V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C423	1-130-967-00	FILM	0.0027MF	3%	100V
C424	1-136-230-00	FILM	0.0022MF	3%	100V
C425	1-107-309-00	MICA	100PF	5%	500V
C426	1-126-164-51	ELECT	100MF	20%	100V
C428	1-124-484-11	ELECT	220MF	20%	35V
C430	1-124-484-11	ELECT	220MF	20%	35V
C431	1-107-322-00	MICA	22PF	5%	500V
C432	1-136-250-11	FILM	0.001MF	3%	100V
C433	1-107-277-00	MICA	5PF	0.5PF	100V
C439	1-162-290-31	CERAMIC	470PF	10%	50V
C480	1-124-688-31	ELECT	470MF	20%	16V
C481	1-162-179-11	CERAMIC	0.1MF		50V
C482	1-124-724-31	ELECT	47MF	20%	50V
C483	1-130-955-00	FILM	0.01MF	3%	100V
C484	1-161-494-00	CERAMIC	0.022MF		25V
C485	1-161-974-00	CERAMIC	0.1MF	20%	16V
C486	1-162-282-31	CERAMIC	100PF	10%	50V
C501	1-123-335-00	ELECT	330MF	20%	25V
C502	1-123-335-00	ELECT	330MF	20%	25V
C503	1-124-929-11	ELECT	22MF	20%	63V
C504	1-124-929-11	ELECT	22MF	20%	63V
C511	1-136-165-00	FILM	0.1MF	5%	50V
C512	1-136-165-00	FILM	0.1MF	5%	50V
C513	1-136-165-00	FILM	0.1MF	5%	50V
C514	1-136-165-00	FILM	0.1MF	5%	50V
C515	1-136-165-00	FILM	0.1MF	5%	50V
C516	1-136-165-00	FILM	0.1MF	5%	50V
C517	1-136-165-00	FILM	0.1MF	5%	50V
C518	1-136-256-11	FILM	0.0033MF	3%	100V
C519	1-130-892-00	FILM	0.015MF	3%	100V
C520	1-130-848-00	FILM	0.0082MF	3%	100V
C521	1-107-317-00	MICA	33PF	5%	500V
C522	1-130-967-00	FILM	0.0027MF	3%	100V
C523	1-130-967-00	FILM	0.0027MF	3%	100V
C524	1-136-230-00	FILM	0.0022MF	3%	100V
C525	1-107-309-00	MICA	100PF	5%	500V
C526	1-126-164-51	ELECT	100MF	20%	100V
C528	1-124-484-11	ELECT	220MF	20%	35V
C530	1-124-484-11	ELECT	220MF	20%	35V
C531	1-107-322-00	MICA	22PF	5%	500V
C532	1-136-250-11	FILM	0.001MF	3%	100V
C533	1-107-277-00	MICA	5PF	0.5PF	100V
C534	1-162-290-31	CERAMIC	470PF	10%	50V
C701	1-162-179-11	CERAMIC	0.1MF		50V
C702	1-162-179-11	CERAMIC	0.1MF		50V
C703	1-162-179-11	CERAMIC	0.1MF		50V
C710	1-124-225-00	ELECT	100MF	20%	6.3V
C800	1-136-165-00	FILM	0.1MF	5%	50V
C801	1-130-673-00	FILM	3.3MF	10%	125V
C802	1-126-129-11	ELECT	6800MF	20%	35V
C803	1-126-129-11	ELECT	6800MF	20%	35V
C804	1-124-130-00	ELECT	100MF	20%	63V
C806	1-107-322-00	MICA	22PF	5%	500V
C807	1-123-378-00	ELECT	1000MF	20%	63V
C808	1-123-334-00	ELECT	220MF	20%	25V
C814	1-124-130-00	ELECT	100MF	20%	63V
C816	1-107-322-00	MICA	22PF	5%	500V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C817	1-123-378-00	ELECT	1000MF	20%	63V
C818	1-123-334-00	ELECT	220MF	20%	25V
C819	1-124-738-41	ELECT	220MF	20%	63V
C820-1	1-124-738-41	ELECT	220MF	20%	63V
C820-2	1-131-450-00	TANTALUM	1MF	20%	50V
C821	1-131-450-00	TANTALUM	1MF	20%	50V
C822	1-123-369-00	ELECT	4.7MF	20%	63V
C823	1-123-369-00	ELECT	4.7MF	20%	63V
C850	1-126-122-11	ELECT	12000MF	20%	16V
C851	1-124-636-00	ELECT	3300MF	20%	25V
C852	1-136-173-00	FILM	0.47MF	5%	50V
C853	1-126-048-11	ELECT	10MF	20%	50V
C854	1-126-038-11	ELECT	330MF	20%	35V
C855	1-126-038-11	ELECT	330MF	20%	35V
C856	1-126-047-11	ELECT	4.7MF	20%	50V
C857	1-124-997-11	ELECT	470MF	20%	10V
C858	1-125-367-11	CAP, DOUBLE LAYERS	0.1F		5.5V
C859	1-136-157-00	FILM	0.022MF	5%	50V
C860	1-130-673-00	FILM	3.3MF	10%	125V
C861	1-136-165-00	FILM	0.1MF	5%	50V
C864	1-126-053-11	ELECT	220MF	20%	50V
C865	1-126-053-11	ELECT	220MF	20%	50V
C866	1-126-038-11	ELECT	330MF	20%	35V
C900	1-126-017-11	ELECT	6800MF	20%	16V
C901-1	1-124-636-00	ELECT	3300MF	20%	25V
C901-2	1-124-636-00	ELECT	3300MF	20%	25V
C902	1-161-744-00	CERAMIC	0.01MF		400V
C903	1-161-744-00	(US)...CERAMIC	0.01MF		400V
C904	1-161-742-00	(555ESD)...CERAMIC	0.022MF	20%	400V
C905	1-161-742-00	(555ESD)...CERAMIC	0.022MF	20%	400V
C906	1-161-742-00	(555ESD)...CERAMIC	0.022MF	20%	400V
C907	1-161-742-00	(555ESD)...CERAMIC	0.022MF	20%	400V
C908	1-161-742-00	(555ESD)...CERAMIC	0.022MF	20%	400V
C909	1-161-742-00	(555ESD)...CERAMIC	0.022MF	20%	400V
CNP200*1	564-709-11	PIN, CONNECTOR (SMALL TYPE)	7P		
CNP201*1	564-710-11	PIN, CONNECTOR (SMALL TYPE)	8P		
CNP202*1	564-506-11	PLUG, CONNECTOR	3P		
CNP203*1	564-706-31	PIN, CONNECTOR (SMALL TYPE)	4P		
CNP300*1	564-707-11	PIN, CONNECTOR (SMALL TYPE)	5P		
CNP301*1	564-509-11	PLUG, CONNECTOR	6P		
CNP302*1	506-503-11	PIN, CONNECTOR	9P		
CNP303*1	564-508-11	PLUG, CONNECTOR	5P		
CNP304*1	564-337-00	PIN, CONNECTOR	3P		
CNP305*1	564-337-00	PIN, CONNECTOR	3P		
CNP306*1	564-338-00	PIN, CONNECTOR	4P		
CNP307*1	564-336-00	PIN, CONNECTOR	2P		
CNP390*1	564-497-11	PIN, CONNECTOR	4P		
CNP391*1	564-507-41	PLUG, CONNECTOR	4P		
CNP392*1	564-507-21	PLUG, CONNECTOR	4P		
CNP400*1	564-507-41	PLUG, CONNECTOR	4P		
CNP401*1	564-507-21	PLUG, CONNECTOR	4P		
CNP402*1	564-507-11	PLUG, CONNECTOR	4P		
CNP480*1	564-704-11	PIN, CONNECTOR (SMALL TYPE)	2P		
CNP481*1	564-505-11	PLUG, CONNECTOR	2P		
CNP482*1	564-705-11	PIN, CONNECTOR (SMALL TYPE)	3P		

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
	CNP500*1-564-507-11	PLUG, CONNECTOR 4P
	CNP705*1-564-496-11	PIN, CONNECTOR 3P
	CNP800*1-535-116-00	TERMINAL
	CNP801*1-535-116-00	TERMINAL
	CNP802*1-535-116-00	TERMINAL
	CNP802*1-535-116-00	TERMINAL
	CNP850*1-564-341-11	PIN, CONNECTOR 7P
CP700	1-232-967-11	COMPOSITION CIRCUIT BLOCK
D200	8-719-940-76	DIODE 1SS132
D302	8-719-940-76	DIODE 1SS132
D303	8-719-940-76	DIODE 1SS132
D304	8-719-940-76	DIODE 1SS132
D305	8-719-940-76	DIODE 1SS132
D307	8-719-940-76	DIODE 1SS132
D390	8-719-200-23	DIODE 11E2
D700	8-719-939-87	DIODE VR3638S
D701	8-719-939-85	DIODE AY3638S
D702	8-719-939-84	DIODE PG3422SY-1
D703	8-719-907-75	DIODE AA5534S
D704	8-719-921-05	DIODE EBG5534S
D705	8-719-940-76	DIODE 1SS132
D800	8-719-200-68	DIODE C10P20FU
D801	8-719-200-69	DIODE C10P20FUR
D810	8-719-224-11	DIODE 10YD2.4A
D811	8-719-902-87	DIODE EQ801-08Q
D812	8-719-224-11	DIODE 10YD2.4A
D816	8-719-902-87	DIODE EQ801-08Q
D870	8-719-200-23	DIODE 11E2
D871	8-719-200-23	DIODE 11E2
D872	8-719-200-23	DIODE 11E2
D873	8-719-200-23	DIODE 11E2
D874	8-719-940-76	DIODE 1SS132
D875	8-719-940-76	DIODE 1SS132
D876	8-719-200-31	DIODE 21DQ05
D877	8-719-200-31	DIODE 21DQ05
D878	8-719-200-31	DIODE 21DQ05
D879	8-719-200-31	DIODE 21DQ05
D882	8-719-934-22	DIODE HZS30-2L
D883	8-719-933-50	DIODE HZS7C2L
D884	8-719-940-76	DIODE 1SS132
D885	8-719-940-76	DIODE 1SS132
D890	8-719-210-12	DIODE 10DF2-TA2
IC201	8-752-030-94	IC CXA1082Q
IC202	8-759-202-01	IC TA7256P
IC203	8-759-202-01	IC TA7256P
IC301	8-752-322-04	IC CXD1125Q
IC302	8-759-910-36	IC MSM5128-20GS
IC303	8-759-940-64	IC MSM6404A-181RS
IC304	8-759-804-47	IC LC6523H-3270
IC305	8-759-202-12	IC TC74HC02P
IC307	8-759-939-35	IC CXD1088Q
IC308	8-719-939-51	MCA11G2
IC309	8-719-939-51	MCA11G2
IC310	8-759-202-14	IC TC74HC08P
IC390	8-759-600-24	IC M54543L
IC401	8-759-939-94	IC TDA1541-N5
IC402	8-759-000-99	IC MC74HC74N
IC403	8-759-202-74	IC TC74HC04P

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC410	8-759-603-97	IC M5240PS
IC411	8-759-701-21	IC NJM5532D-D
IC412	8-759-905-42	IC NE5534P
IC413	8-759-701-21	IC NJM5532D-D
IC480	8-759-202-13	IC TC74HC04P
IC511	8-759-701-21	IC NJM5532D-D
IC512	8-759-905-42	IC NE5534P
IC700	8-752-801-26	IC CXP5016M-178S
IC710	8-749-900-36	IC BX-1393
IC800	8-759-170-12	IC UPC78M12H
IC801	8-759-700-51	IC NJM7805A
IC802	8-759-700-51	IC NJM7805A
IC811	8-759-700-28	IC NJM7905A
IC812	8-759-700-24	IC NJM79M12A
IC852	8-759-700-51	IC NJM7805A
IC853	8-759-604-02	IC M5278L56
IC862	8-759-700-28	IC NJM7905A
J400	1-563-966-11	JACK, PIN 4P
J480	1-507-567-71	JACK, PIN 1P
J501	1-507-863-21	JACK, LARGE TYPE (HEADPHONES)
L350	1-408-684-00	(US)...MICRO INDUCTOR 1.2MMH
L901	1-421-340-00	(AEP/UK)...LINE FILTER
L901	1-421-395-00	(US)...COIL, LINE FILTER
LP901	*1-535-476-11	TERMINAL
LP902	*1-535-476-11	TERMINAL
LP903	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
LP904	1-535-139-00	(AEP/UK)...BASE POST 22MM(10MM PITCH) 2P
M53	1-422-197-14	COIL (DRIVE)
M651	X-4902-019-1	CHUCKING MOTOR ASSY
M652	A-4608-303-A	MOTOR ASSY, LOADING
ND701	1-519-412-11	INDICATOR TUBE, FLUORESCENT
PS200	1-532-675-00	(AEP/UK)...LINK, IC
PS201	1-532-675-00	(AEP/UK)...LINK, IC
PS801	1-532-679-00	(AEP/UK)...LINK, IC
PS802	1-532-679-00	(AEP/UK)...LINK, IC
PS803	1-532-679-00	(AEP/UK)...LINK, IC
PS851	1-532-675-00	(AEP/UK)...LINK
Q200	8-729-900-61	TRANSISTOR DTA114ES
Q201	8-729-900-80	TRANSISTOR DTC114ES
Q202	8-729-900-80	TRANSISTOR DTC144ES
Q203	8-729-245-82	TRANSISTOR 2SC2458-Y
Q204	8-729-900-61	TRANSISTOR DTA114ES
Q301	8-729-245-82	TRANSISTOR 2SC2458-Y
Q302	8-729-900-80	TRANSISTOR DTA114ES
Q303	8-729-900-80	TRANSISTOR DTC114ES
Q700	8-729-900-80	TRANSISTOR DTC114ES
Q701	8-729-900-80	TRANSISTOR DTC114ES
Q702	8-729-900-80	TRANSISTOR DTC114ES
Q703	8-729-900-80	TRANSISTOR DTC114ES
Q704	8-729-900-80	TRANSISTOR DTC114ES
Q800	8-729-113-82	TRANSISTOR 2SA1138-E
Q801	8-729-167-62	TRANSISTOR 2SC2676-E
Q802	8-729-127-53	TRANSISTOR 2SC2275-P
Q803	8-729-167-62	TRANSISTOR 2SC2676-E
Q810	8-729-167-62	TRANSISTOR 2SC2676-E

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q811	8-729-113-82	TRANSISTOR 2SA1138-E			
Q812	8-729-118-53	TRANSISTOR 2SA985-P			
Q813	8-729-113-82	TRANSISTOR 2SA1138-E			
Q861	8-729-245-82	TRANSISTOR 2SC2458-Y			
Q864	8-729-103-43	TRANSISTOR 2SB734-2			
Q865	8-729-245-82	TRANSISTOR 2SC2458-Y			
Q866	8-729-204-83	TRANSISTOR 2SA1048			
R200	1-249-441-11	CARBON	100K	5%	1/6W
R201	1-215-493-00	CARBON	1M	5%	1/6W
R202	1-215-452-00	CARBON	20K	5%	1/6W
R203	1-249-441-11	CARBON	100K	5%	1/6W
R204	1-215-435-00	METAL	3.9K	1%	1/6W
R205	1-215-471-00	CARBON	120K	5%	1/6W
R206	1-249-429-11	CARBON	10K	5%	1/6W
R207	1-249-433-11	CARBON	22K	5%	1/6W
R208	1-249-429-11	CARBON	10K	5%	1/6W
R210	1-249-425-11	CARBON	4.7K	5%	1/6W
R211	1-247-880-00	CARBON	110K	5%	1/6W
R212	1-215-491-00	CARBON	820K	5%	1/6W
R213	1-249-441-11	CARBON	100K	5%	1/6W
R214	1-215-466-00	CARBON	75K	5%	1/6W
R215	1-215-471-00	CARBON	120K	5%	1/6W
R216	1-215-471-00	CARBON	120K	5%	1/6W
R217	1-247-885-00	CARBON	180K	5%	1/6W
R218	1-249-405-11	CARBON	100	5%	1/6W
R219	1-247-885-00	CARBON	180K	5%	1/6W
R220	1-249-405-11	CARBON	100	5%	1/6W
R221	1-249-405-11	CARBON	100	5%	1/6W
R222	1-247-864-00	CARBON	24K	5%	1/6W
R223	1-249-439-11	CARBON	68K	5%	1/6W
R224	1-249-432-11	CARBON	18K	5%	1/6W
R225	1-249-405-11	CARBON	100	5%	1/6W
R226	1-215-486-00	CARBON	510K	5%	1/6W
R227	1-249-429-11	CARBON	10K	5%	1/6W
R228	1-249-429-11	CARBON	10K	5%	1/6W
R229	1-249-429-11	CARBON	10K	5%	1/6W
R230	1-249-441-11	CARBON	100K	5%	1/6W
R231	1-249-417-11	CARBON	1K	5%	1/6W
R244	1-249-417-11	CARBON	1K	5%	1/6W
R301	1-249-429-11	CARBON	10K	5%	1/6W
R302	1-249-441-11	CARBON	100K	5%	1/6W
R303	1-249-437-11	CARBON	47K	5%	1/6W
R304	1-215-481-00	CARBON	330K	5%	1/6W
R305	1-215-493-00	CARBON	1M	5%	1/6W
R307	1-215-469-00	METAL	100K	1%	1/6W
R308	1-215-469-00	METAL	100K	1%	1/6W
R310	1-249-417-11	CARBON	1K	5%	1/6W
R311	1-249-413-11	CARBON	470	5%	1/6W
R312	1-249-405-11	CARBON	100	5%	1/6W
R350	1-249-417-11	CARBON	1K	5%	1/6W
R351	1-249-413-11	CARBON	470	5%	1/6W
R352	1-249-745-11	CARBON	1M		1/2W
R356	1-249-417-11	CARBON	1K	5%	1/6W
R360	1-249-417-11	CARBON	1K	5%	1/6W
R361	1-249-425-11	CARBON	4.7K	5%	1/6W
R362	1-249-417-11	CARBON	1K	5%	1/6W
R363	1-249-405-11	CARBON	100	5%	1/6W
R364	1-249-413-11	CARBON	470	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R365	1-249-417-11	CARBON	1K	5%	1/6W
R366	1-249-413-11	CARBON	470	5%	1/6W
R402	1-249-433-11	CARBON	22K	5%	1/6W
R403	1-249-425-11	CARBON	4.7K	5%	1/6W
R411	1-259-022-11	CARBON	1.5K	1%	1/2W
R412	1-247-713-11	CARBON	1K	1%	1/4W
R413	1-246-545-00	CARBON	1M	1%	1/4W
R414	1-259-040-11	CARBON	1.8K	1%	1/2W
R415	1-249-929-11	CARBON	1.8K	1%	1/4W
R416	1-249-929-11	CARBON	1.8K	1%	1/4W
R417	1-249-929-11	CARBON	1.8K	1%	1/4W
R418	1-247-739-11	CARBON	100	2%	1/2W
R419	1-249-983-91	CARBON	330K	1%	1/4W
R420	1-259-025-11	CARBON	470	1%	1/2W
R421	1-247-700-11	CARBON	100	1%	1/4W
R422	1-249-465-11	CARBON	47K	1%	1/4W
R423	1-249-465-11	CARBON	47K	1%	1/4W
R424	1-247-721-11	CARBON	4.7K	1%	1/4W
R425	1-249-951-11	CARBON	15K	1%	1/4W
R426	1-247-700-11	CARBON	100	1%	1/4W
R427	1-249-983-11	CARBON	330K	1%	1/4W
R428	1-249-915-11	CARBON	470	1%	1/4W
R429	1-249-909-11	CARBON	270	1%	1/4W
R430	1-247-700-11	CARBON	100	1%	1/4W
R480	1-249-896-11	CARBON	75	1%	1/4W
R481	1-249-405-11	CARBON	100	5%	1/6W
R511	1-259-022-11	CARBON	1.5K	1%	1/2W
R512	1-247-713-11	CARBON	1K	1%	1/4W
R513	1-246-545-00	CARBON	1M	1%	1/4W
R514	1-259-040-11	CARBON	1.8K	1%	1/2W
R515	1-249-929-11	CARBON	1.8K	1%	1/4W
R516	1-249-929-11	CARBON	1.8K	1%	1/4W
R517	1-249-929-11	CARBON	1.8K	1%	1/4W
R518	1-247-739-11	CARBON	100	2%	1/2W
R519	1-249-983-11	CARBON	330K	1%	1/4W
R520	1-259-025-91	CARBON	470	1%	1/2W
R521	1-247-700-11	CARBON	100	1%	1/4W
R522	1-249-465-11	CARBON	47K	1%	1/4W
R523	1-249-465-11	CARBON	47K	1%	1/4W
R524	1-247-721-11	CARBON	4.7K	1%	1/4W
R525	1-249-951-11	CARBON	15K	1%	1/4W
R526	1-247-700-11	CARBON	100	1%	1/4W
R527	1-249-983-11	CARBON	330K	1%	1/4W
R528	1-249-915-11	CARBON	470	1%	1/4W
R529	1-249-909-11	CARBON	270	1%	1/4W
R530	1-247-700-11	CARBON	100	1%	1/4W
R703	1-249-433-11	CARBON	22K	5%	1/6W
R704	1-249-433-11	CARBON	22K	5%	1/6W
R705	1-247-818-00	CARBON	300	5%	1/6W
R706	1-249-406-11	CARBON	120	5%	1/6W
R707	1-249-405-11	CARBON	100	5%	1/6W
R708	1-249-409-11	CARBON	220	5%	1/6W
R709	1-249-407-11	CARBON	150	5%	1/6W
R710	1-249-441-11	CARBON	100K	5%	1/6W
R711	1-249-441-11	CARBON	100K	5%	1/6W
R800	1-217-434-00	FUSIBLE	10	5%	1/2W
R801	1-249-789-11	CARBON	300	1%	1/2W

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R802	1-249-796-11	CARBON 560 1% 1/2W
R803	1-249-814-11	CARBON 3.3K 1% 1/2W
R804	1-259-038-11	CARBON 680 1% 1/2W
R805	1-259-039-11	CARBON 820 1% 1/2W
R806	1-249-844-11	CARBON 56K 1% 1/2W
R811	1-249-789-11	CARBON 300 1% 1/2W
R812	1-249-796-11	CARBON 560 1% 1/2W
R813	1-249-814-11	CARBON 3.3K 1% 1/2W
R814	1-259-038-11	CARBON 680 1% 1/2W
R815	1-259-039-11	CARBON 820 1% 1/2W
R816	1-249-844-11	CARBON 56K 1% 1/2W
R820	1-212-960-00	(AEP/UK)...FUSIBLE 12 5% 1/2W F
R820	1-249-756-11	(US).....CARBON 12 1% 1/2W
R830	1-212-960-00	(AEP/UK)...FUSIBLE 12 5% 1/2W F
R830	1-249-756-11	(US).....CARBON 12 1% 1/2W
R840	1-247-700-11	CARBON 100 1% 1/4W
R841	1-247-700-11	CARBON 100 1% 1/4W
R842	1-247-700-11	CARBON 100 1% 1/4W
R843	1-247-700-11	CARBON 100 1% 1/4W
R852	1-212-954-11	FUSIBLE 5.8 1% 1/2W
R853	1-249-433-11	CARBON 22K 5% 1/6W
R854	1-249-435-11	CARBON 33K 5% 1/6W
R855	1-215-471-00	CARBON 120K 5% 1/6W
R856	1-249-432-11	CARBON 18K 5% 1/6W
R857	1-249-430-11	CARBON 12K 5% 1/6W
R858	1-249-429-11	CARBON 10K 5% 1/6W
R859	1-249-441-11	CARBON 100K 5% 1/6W
R860	1-249-441-11	CARBON 100K 5% 1/6W
R861	1-249-405-11	CARBON 100 5% 1/6W
R862	1-249-435-11	CARBON 33K 5% 1/6W
R863	1-249-429-11	CARBON 10K 5% 1/6W
RV201	1-228-990-00	RES, ADJ, METAL GLAZE 1K
RV202	1-228-995-00	RES, ADJ, METAL GLAZE 22K
RV203	1-228-995-00	RES, ADJ, METAL GLAZE 22K
RV400	1-237-081-11	RES, VAR CARBON 10K/10K (LINE OUT PHONE LEVEL)
RV500	1-237-081-11	RES, VAR CARBON 10K/10K (LINE OUT PHONE LEVEL)
RY1	1-515-642-11	RELAY
RY2	1-515-642-11	RELAY
RY3	1-515-642-11	RELAY
RY5	1-515-642-11	RELAY
S310	1-570-908-11	SWITCH, ROTARY (TIMER)
S480	1-516-778-XX	SWITCH, SLIDE (DIGITAL OUT)
S700	1-554-303-21	SWITCH, KEY BOARD (1)
S701	1-554-303-21	SWITCH, KEY BOARD (2)
S702	1-554-303-21	SWITCH, KEY BOARD (3)
S703	1-554-303-21	SWITCH, KEY BOARD (4)
S704	1-554-303-21	SWITCH, KEY BOARD (5)
S705	1-554-303-21	SWITCH, KEY BOARD (▶)
S706	1-554-303-21	SWITCH, KEY BOARD (▲)
S708	1-554-303-21	SWITCH, KEY BOARD (6)
S709	1-554-303-21	SWITCH, KEY BOARD (7)
S710	1-554-303-21	SWITCH, KEY BOARD (8)
S711	1-554-303-21	SWITCH, KEY BOARD (9)
S712	1-554-303-21	SWITCH, KEY BOARD (10)
S713	1-554-303-21	SWITCH, KEY BOARD (■)
S714	1-554-303-21	SWITCH, KEY BOARD (A↔B)

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S716	1-554-303-21	SWITCH, KEY BOARD (11)
S717	1-554-303-21	SWITCH, KEY BOARD (12)
S718	1-554-303-21	SWITCH, KEY BOARD (13)
S719	1-554-303-21	SWITCH, KEY BOARD (14)
S720	1-554-303-21	SWITCH, KEY BOARD (15)
S721	1-554-303-21	SWITCH, KEY BOARD (■)
S722	1-554-303-21	SWITCH, KEY BOARD (DISPLAY)
S724	1-554-303-21	SWITCH, KEY BOARD (16)
S725	1-554-303-21	SWITCH, KEY BOARD (17)
S726	1-554-303-21	SWITCH, KEY BOARD (18)
S727	1-554-303-21	SWITCH, KEY BOARD (19)
S728	1-554-303-21	SWITCH, KEY BOARD (20)
S729	1-554-303-21	SWITCH, KEY BOARD (PROGRAM)
S730	1-554-303-21	SWITCH, KEY BOARD (SHUFFLE)
S732	1-554-303-21	SWITCH, KEY BOARD (+10)
S733	1-554-303-21	SWITCH, KEY BOARD (0)
S734	1-554-303-21	SWITCH, KEY BOARD (CHECK)
S735	1-554-303-21	SWITCH, KEY BOARD (CLEAR)
S736	1-554-303-21	SWITCH, KEY BOARD (CONTINUE)
S737	1-554-303-21	SWITCH, KEY BOARD (SINGLE)
S738	1-554-303-21	SWITCH, KEY BOARD (REPEAT)
S739	1-554-303-21	SWITCH, KEY BOARD (COUNT)
S740	1-554-303-21	SWITCH, KEY BOARD (◀)
S741	1-554-303-21	SWITCH, KEY BOARD (▶)
S742	1-554-303-21	SWITCH, KEY BOARD (←)
S743	1-554-303-21	SWITCH, KEY BOARD (→)
S744	1-554-303-21	SWITCH, KEY BOARD (◀)
S745	1-554-303-21	SWITCH, KEY BOARD (▶)
S746	1-554-303-21	SWITCH, KEY BOARD (AUTO PAUSE)
S747	1-554-303-21	SWITCH, KEY BOARD (AUTO SPACE)
S901	1-553-318-00	SWITCH, PUSH (AC POWER)(1 KEY)
SE51	1-422-198-11	COIL (SENSOR)
T480	1-459-587-11	COIL (WITH CORE)
T901	1-448-882-11	(US).....TRANSFORMER, POWER
T901	1-448-884-11	(AEP/UK)...TRANSFORMER, POWER
T902	1-448-883-11	(US).....TRANSFORMER, POWER
T902	1-448-885-11	(AEP/UK)...TRANSFORMER, POWER
X300	1-567-539-11	VIBRATOR, CRYSTAL (16.9344MHz)
X301	1-567-686-11	OSCILLATOR, CERAMIC (4MHz)
X700	1-567-686-11	OSCILLATOR, CERAMIC (4MHz)

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-463-816-11	REMOTE COMMANDER (RM-D502A)
1-558-271-11	CORD, CONNECTION
3-701-630-01	BAG, POLYETHYLENE
3-703-390-01	(US)....INSTRUCTION
3-703-710-41	STICKER, SONY SYMBOL (12)
3-765-688-11	(AEP/UK)...MANUAL, INSTRUCTION
3-765-688-21	(US).....MANUAL, INSTRUCTION
3-765-688-41	(AEP).....MANUAL, INSTRUCTION
*3-795-629-15	(AEP)...INSTRUCTION
4-913-941-01	HOLDER, COMMANDER
4-917-494-01	BATTERY CASE
4-919-212-01	(US).....INDIVIDUAL CARTON
4-919-212-11	(AEP/UK)..INDIVIDUAL CARTON
4-919-213-01	CUSHION

Sony Corporation
Audio Group

English
87C0693-1
Printed in Japan
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