

Fig. 5-4 Block Diagram

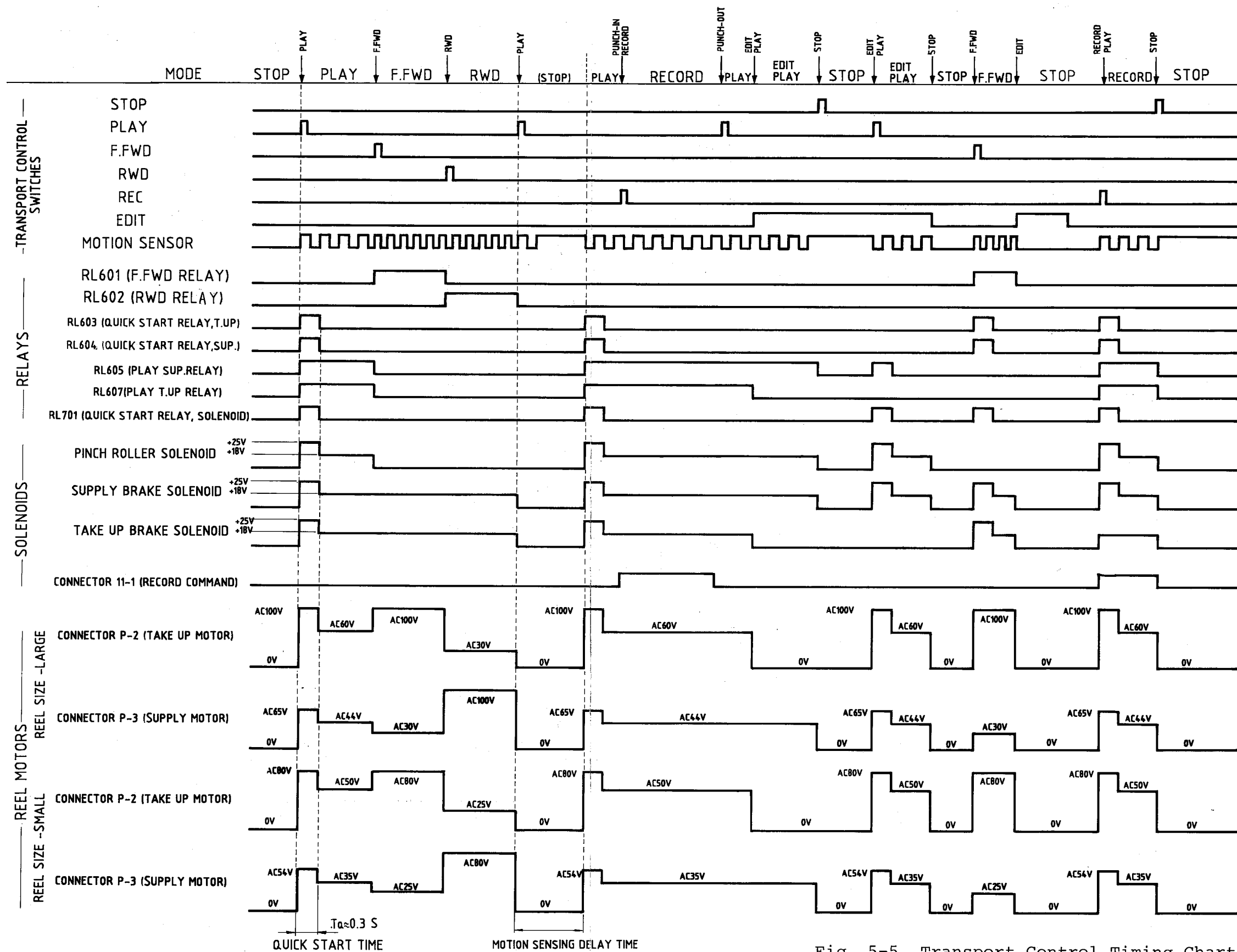
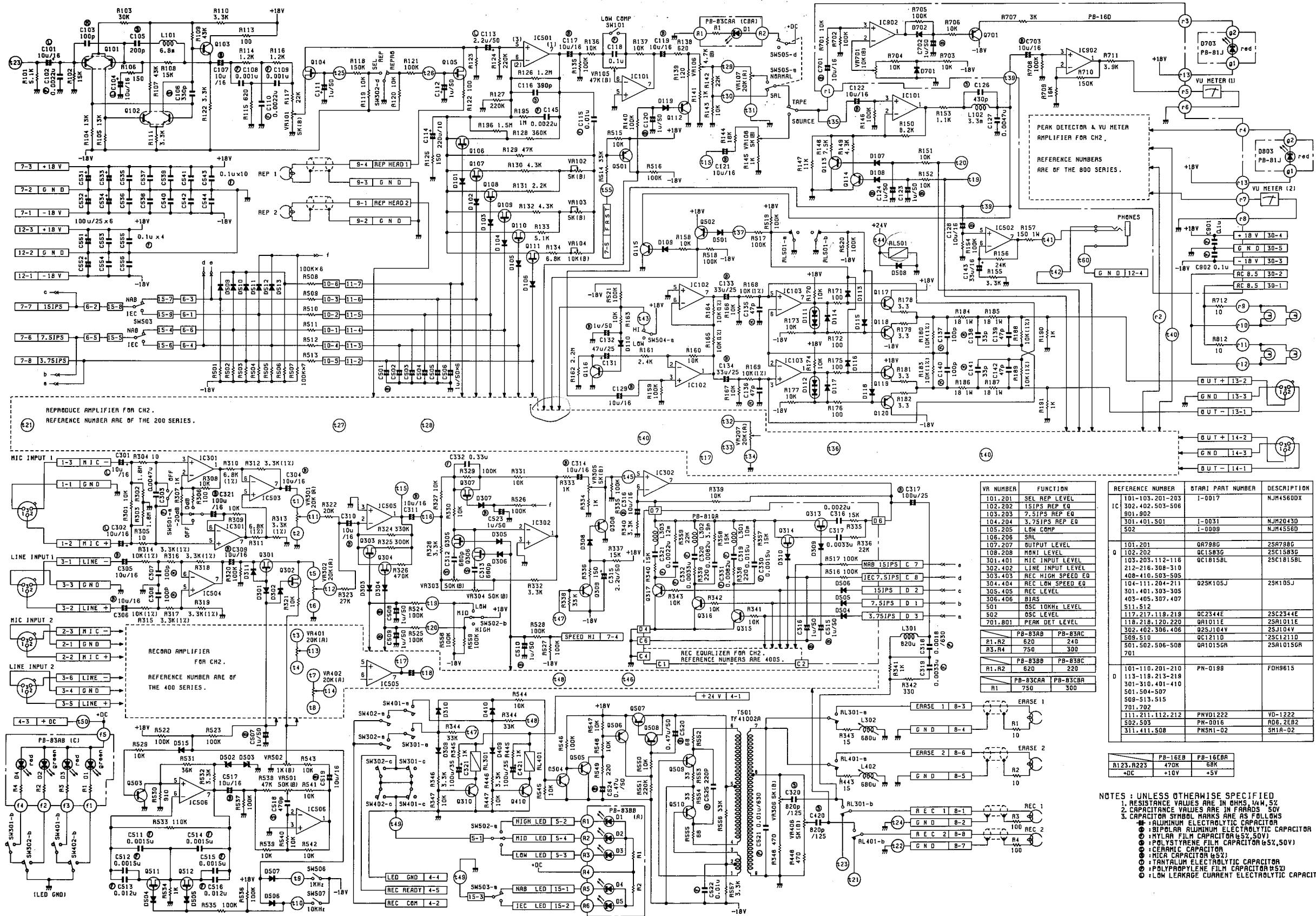


Fig. 5-5 Transport Control Timing Chart

AL0620B REC & REPRO AMP.

NO O/P CH 2

$$A_v = \frac{V_o}{V_i}$$



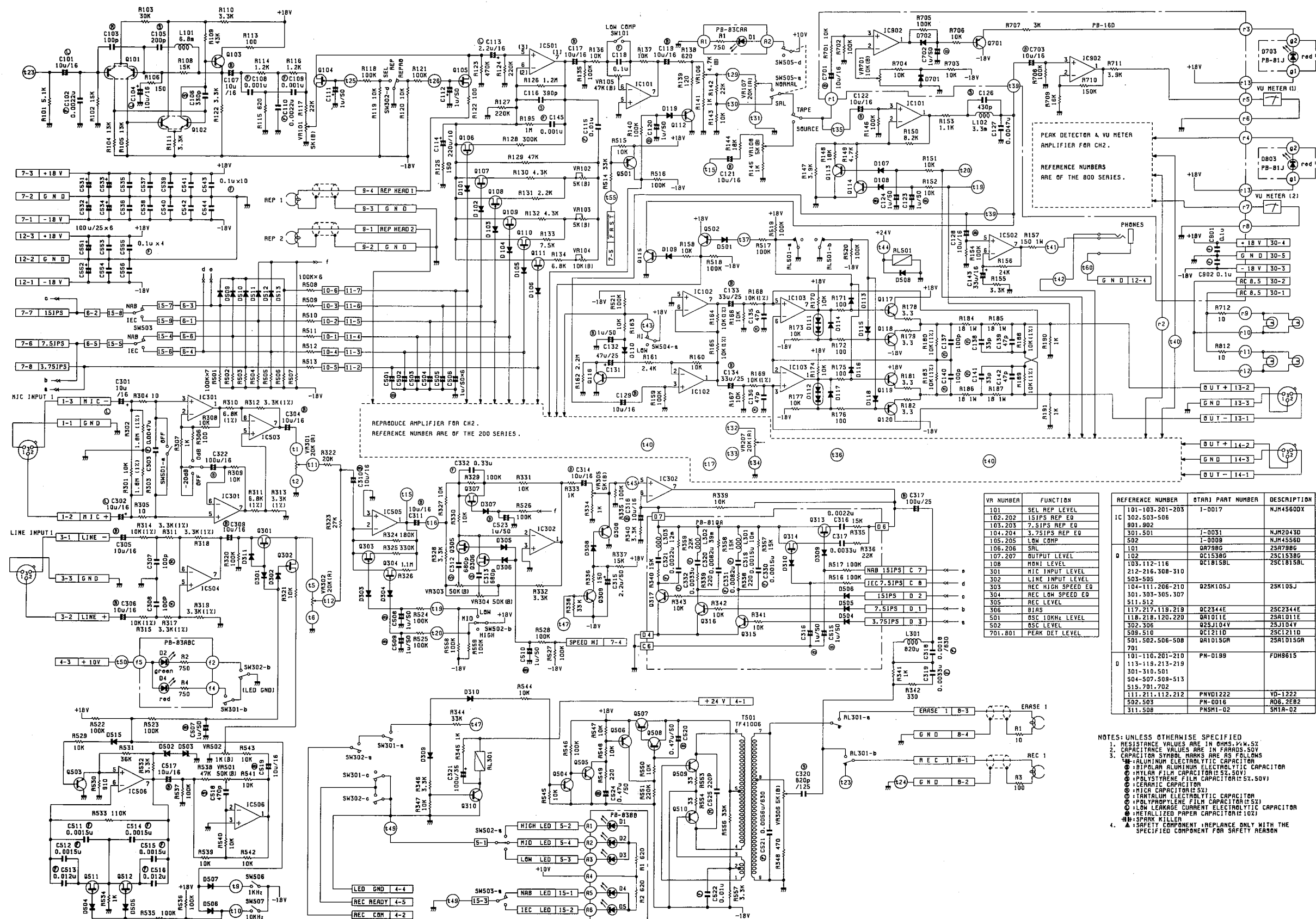
VR NUMBER	FUNCTION
101.201	SEL REF LEVEL
102.202	15IPS REF EQ
103.203	7.5IPS REF EQ
104.204	3.75IPS REF EQ
105.205	LOW COMP
106.206	SRL
107.207	OUTPUT LEVEL
108.208	MONI LEVEL
301.401	MIC INPUT LEVEL
302.402	LINE INPUT LEVEL
303.403	REC HIGH SPEED EQ
304.404	REC LOW SPEED EQ
305.405	REC LEVEL
306.406	BIAS
501	OSC 10KHz LEVEL
502	OSC LEVEL
701.801	PEAK DET LEVEL
R1,R2	PB-83AB PB-83AC
R3,R4	620 240
R1,R2	PB-83BB PB-83BC
R1,R2	620 220
R1	PB-83CRA PB-83CBA
R1	750 300

REFERENCE NUMBER	STAR1 PART NUMBER	DESCRIPTION
101-103,201-203	1-0017	NJM4560X
302,402,503-506		
901.902		
301,401,501	1-0031	NJM2043D
502	1-0009	NJM4556D
101,201	0A798C	25A798C
102,202	0C1583C	25C1583C
103,203,112-116	0C1815BL	25C1815BL
212-216,308-310		
408-410,503-505		
104-111,204-211	025K105J	25K105J
301,401,503-505		
403-405,507,407		
511,512		
117,217,119,219	0C2344E	25C2344E
118,218,120,220	0A1011E	25A1011E
302,402,506,406	025J104V	25J104V
509,510	0C1211D	25C1211D
501,502,506-508	0A1015GA	25A1015GA
701		
101-110,201-210	PN-0198	FDH9615
113-119,213-219		
301-310,401-410		
501,504-507		
508-513,515		
701,702		
111,211,112,212	PNV01222	VO-1222
502,503	PN-0016	AD6,2E82
311,411,508	PNM1-02	SM1A-02

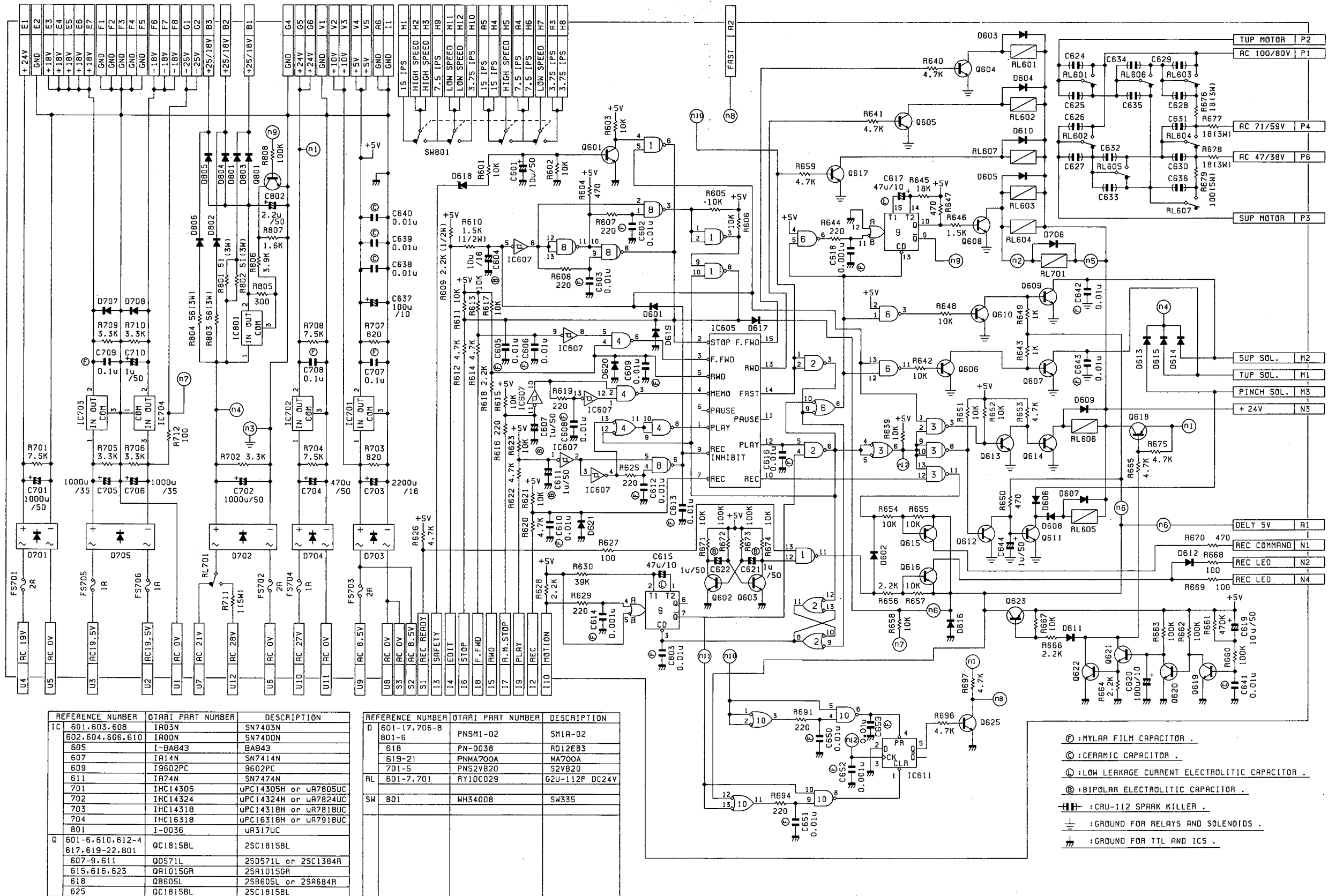
R13,223	PB-16EB	PB-16CBA
+DC	470K	68K
	+10V	+5V

NOTES: UNLESS OTHERWISE SPECIFIED
 1. RESISTANCE VALUES ARE IN OHMS 1/4W, 5%
 2. CAPACITANCE VALUES ARE IN FARADS 50V
 3. CAPACITOR SYMBOL MARKS ARE AS FOLLOWS
 * ALUMINUM ELECTROLYTIC CAPACITOR
 @ BIPOLAR ALUMINUM ELECTROLYTIC CAPACITOR
 @ MYLAR FILM CAPACITOR (5% 50V)
 @ POLYSTYRENE FILM CAPACITOR (5% 50V)
 @ CERAMIC CAPACITOR
 @ NICA CAPACITOR (5% 50V)
 @ TANTALUM ELECTROLYTIC CAPACITOR
 @ POLYPROPYLENE FILM CAPACITOR (5% 50V)
 @ LOW LEAKAGE CURRENT ELECTROLYTIC CAPACITOR

A10680C REC & REPRO AMP.



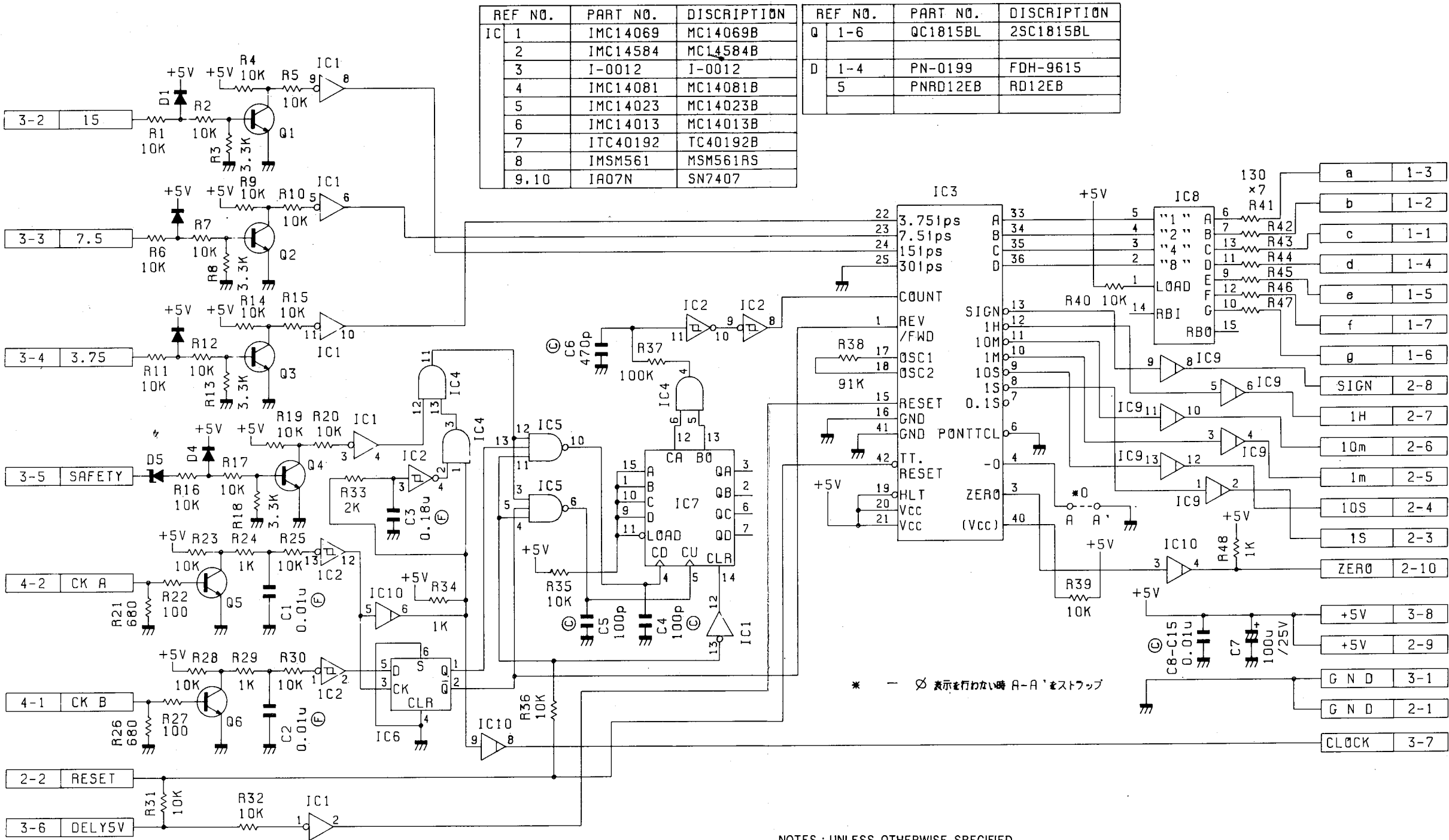
PB-46Q CONTROL P.C.B. ASSEMBLY



REFERENCE NUMBER	OTARI PART NUMBER	DESCRIPTION
IC 601, 603, 608	IA03N	SN7403N
602, 604, 606, 610	IA00N	SN7400N
605	I-BAB43	BAB43
607	IR14N	SN7414N
609	I9602PC	9602PC
611	IR74N	SN7474N
701	IHC14305	uPC14305H or uA7805UC
702	IHC14324	uPC14324H or uA7824UC
703	IHC14318	uPC14318H or uA7818UC
704	IHC16318	uPC16318H or uA7918UC
801	I-0036	uA317UC
Q 601-6, 610, 612-4	QC1815BL	2SC1815BL
617, 619-22, 801	QD571L	2SD571L or 2SC1384R
607-9, 611	QA1015GR	2SA1015GR
615, 616, 623	QB605L	2SB605L or 2SA684R
618	QC1815BL	2SC1815BL
625		

REFERENCE NUMBER	OTARI PART NUMBER	DESCRIPTION
D 601-17, 706-8	PNSM1-02	SM1A-02
801-5	PN-0038	RD12EB3
618	PNMA700A	MA700A
619-21	PNS2VB20	S2VB20
701-5	RY10C029	G2U-112P DC24V
RL 601-7, 701		
SW 801	WH34008	SW335

PB-46R TIMER DRIVE P.C.B. ASSEMBLY



REF NO.	PART NO.	DISCRIPTION
IC 1	IMC14069	MC14069B
2	IMC14584	MC14584B
3	I-0012	I-0012
4	IMC14081	MC14081B
5	IMC14023	MC14023B
6	IMC14013	MC14013B
7	ITC40192	TC40192B
8	IMSM561	MSM561RS
9,10	IAQ7N	SN7407

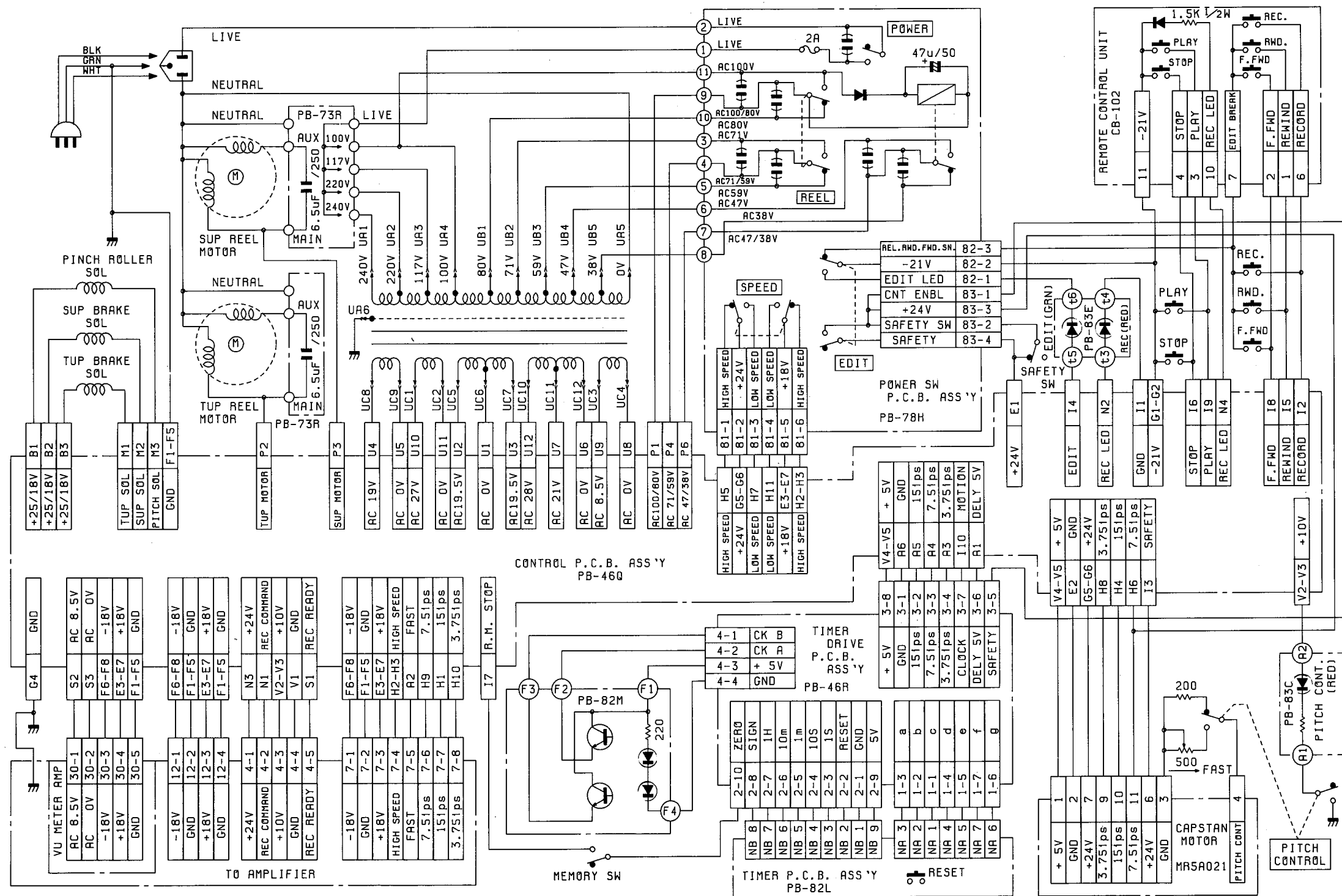
REF NO.	PART NO.	DISCRIPTION
Q 1-6	QC1815BL	2SC1815BL
D 1-4	PN-0199	FDH-9615
5	PNRD12EB	RD12EB

NOTES : UNLESS OTHERWISE SPECIFIED

1. RESISTANCE VALUES ARE IN OHMS, $\frac{1}{2}$ W, 5%.
2. CAPACITANCE VALUES ARE IN FARADS, 50V.
3. CAPACITOR SYMBOL MARKS ARE AS FOLLOWS.
 - ⓐ : ALUMINUM ELECTROLYTIC CAPACITOR.
 - ⓑ : BIPOLAR ALUMINUM ELECTROLYTIC CAPACITOR.
 - ⓒ : MYLAR FILM CAPACITOR ($\pm 5\%$, 50V)
 - ⓓ : POLYSTYRENE FILM CAPACITOR ($\pm 5\%$, 50V)
 - ⓔ : CERAMIC CAPACITOR.
 - ⓕ : MICA CAPACITOR ($\pm 5\%$)

- ⓖ : TANTALUM ELECTROLYTIC CAPACITOR.
- ⓗ : POLYPROPYLENE FILM CAPACITOR ($\pm 5\%$)
- ⓔ : LOW LEAKAGE CURRENT ELECTROLYTIC CAPACITOR.
- ⓖ : METALLIZED PAPER CAPACITOR ($\pm 10\%$)
- ⓗ : SPARK KILLER.
4. ⓐ : SAFETY COMPONENT ; REPLACE ONLY WITH THE SPECIFIED COMPONENT FOR SAFETY REASON.

WIRING DIAGRAM TRANSPORT

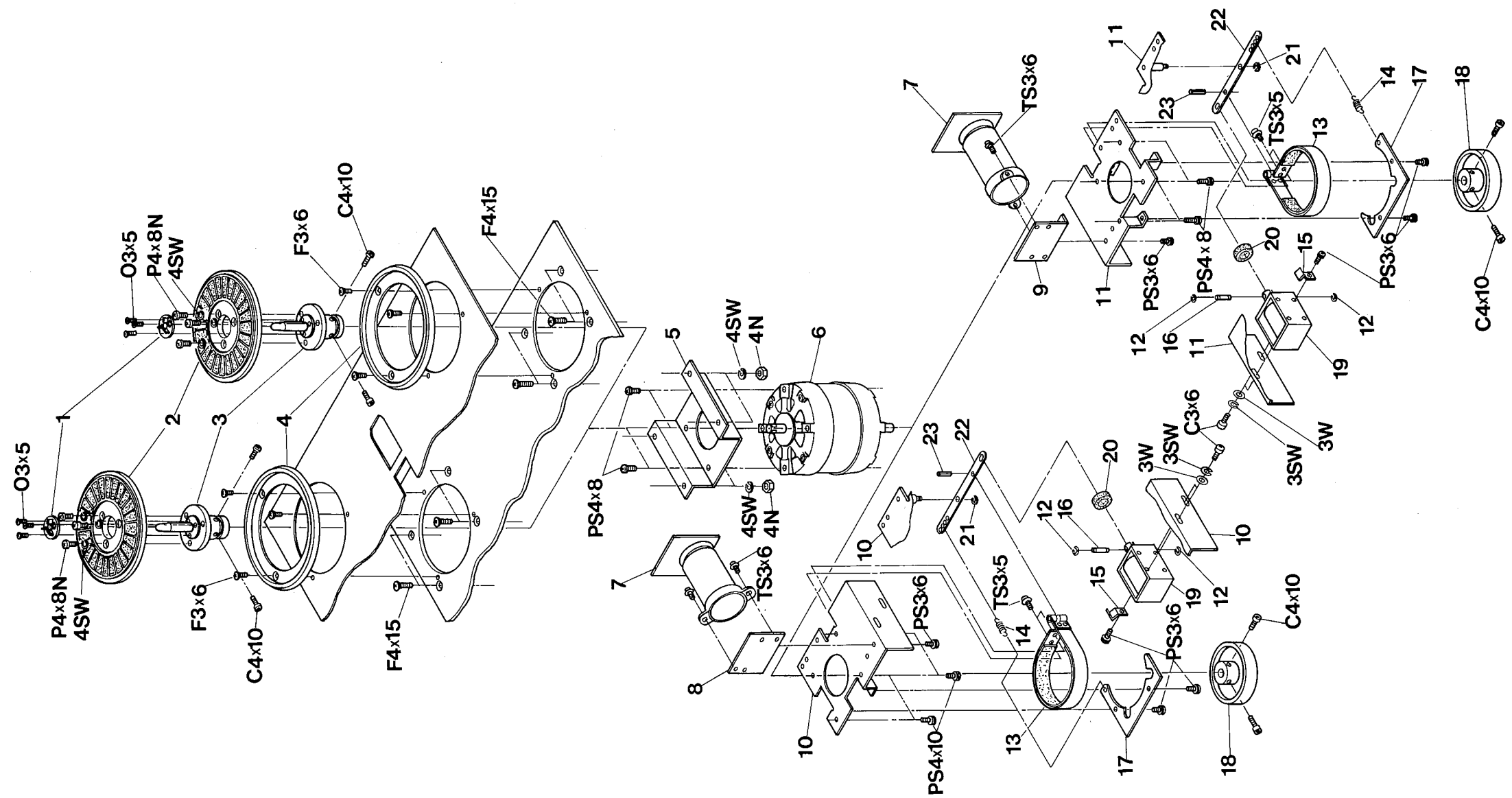


NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE VALUES ARE IN OHMS, $\frac{1}{4}$ W, 5%
2. CAPACITANCE VALUES ARE IN FARADS, 50V
3. CAPACITOR SYMBOL MARKS ARE AS FOLLOWS
 Ⓜ: ALUMINUM ELECTROLYTIC CAPACITOR
 Ⓟ: BIPOLAR ALUMINUM ELECTROLYTIC CAPACITOR
 Ⓜ: MYLAR FILM CAPACITOR ($\pm 5\%$, 50V)
 Ⓢ: POLYSTYRENE FILM CAPACITOR ($\pm 5\%$, 50V)
 Ⓢ: CERAMIC CAPACITOR
 Ⓜ: MICA CAPACITOR ($\pm 5\%$)

- ①: TANTALUM ELECTROLYTIC CAPACITOR
②: POLYPROPYLENE FILM CAPACITOR (±5%)
③: LOW LEAKAGE CURRENT ELECTROLYTIC CAPACITOR
④: METALLIZED PAPER CAPACITOR (±10%)
⚡: SPARK KILLER
⚠: SAFETY COMPONENT :REPLANCE ONLY WITH THE
SPECIFIED COMPONENT FOR SAFETY REASON

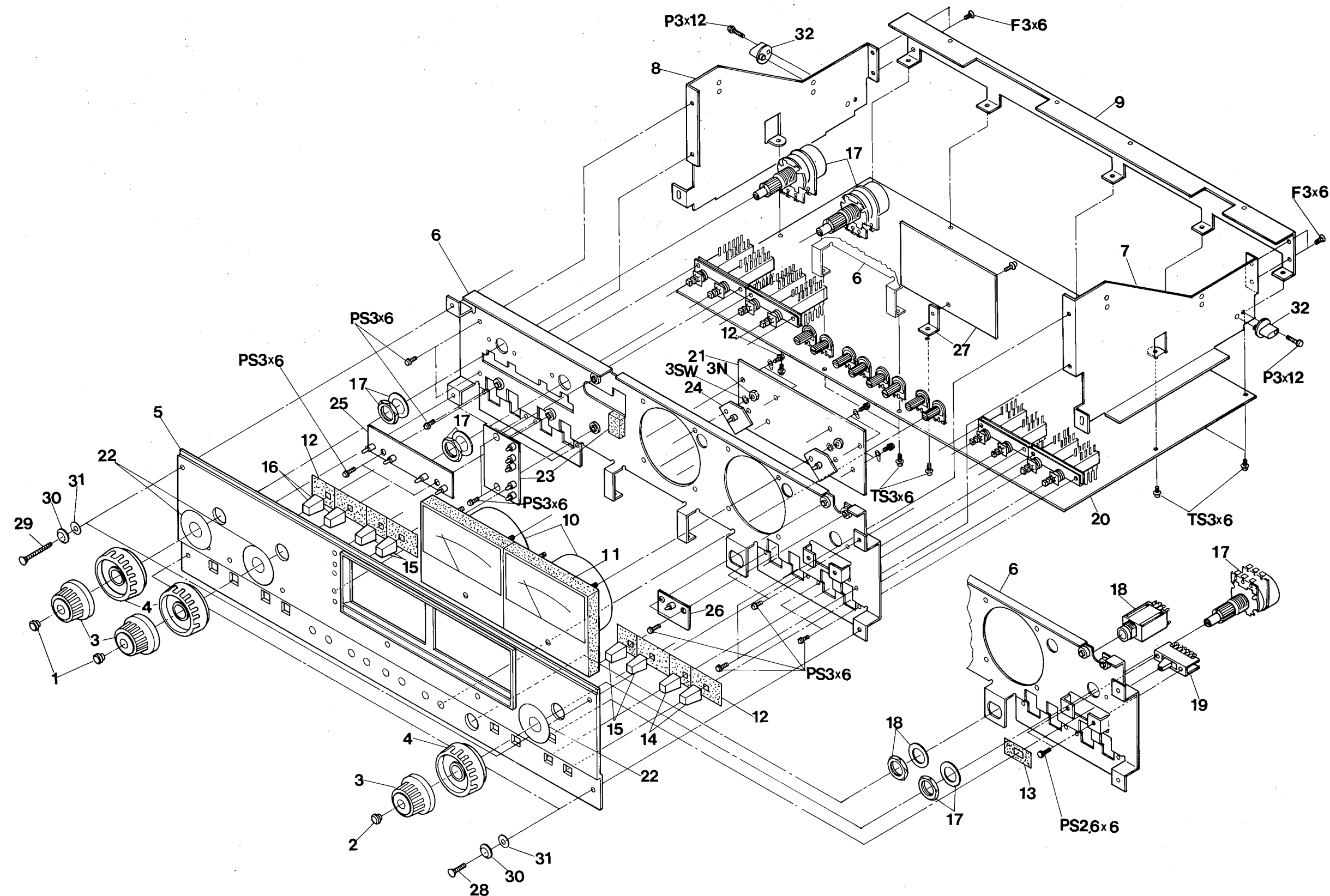
KW-4J REEL ASSEMBLY [7]:



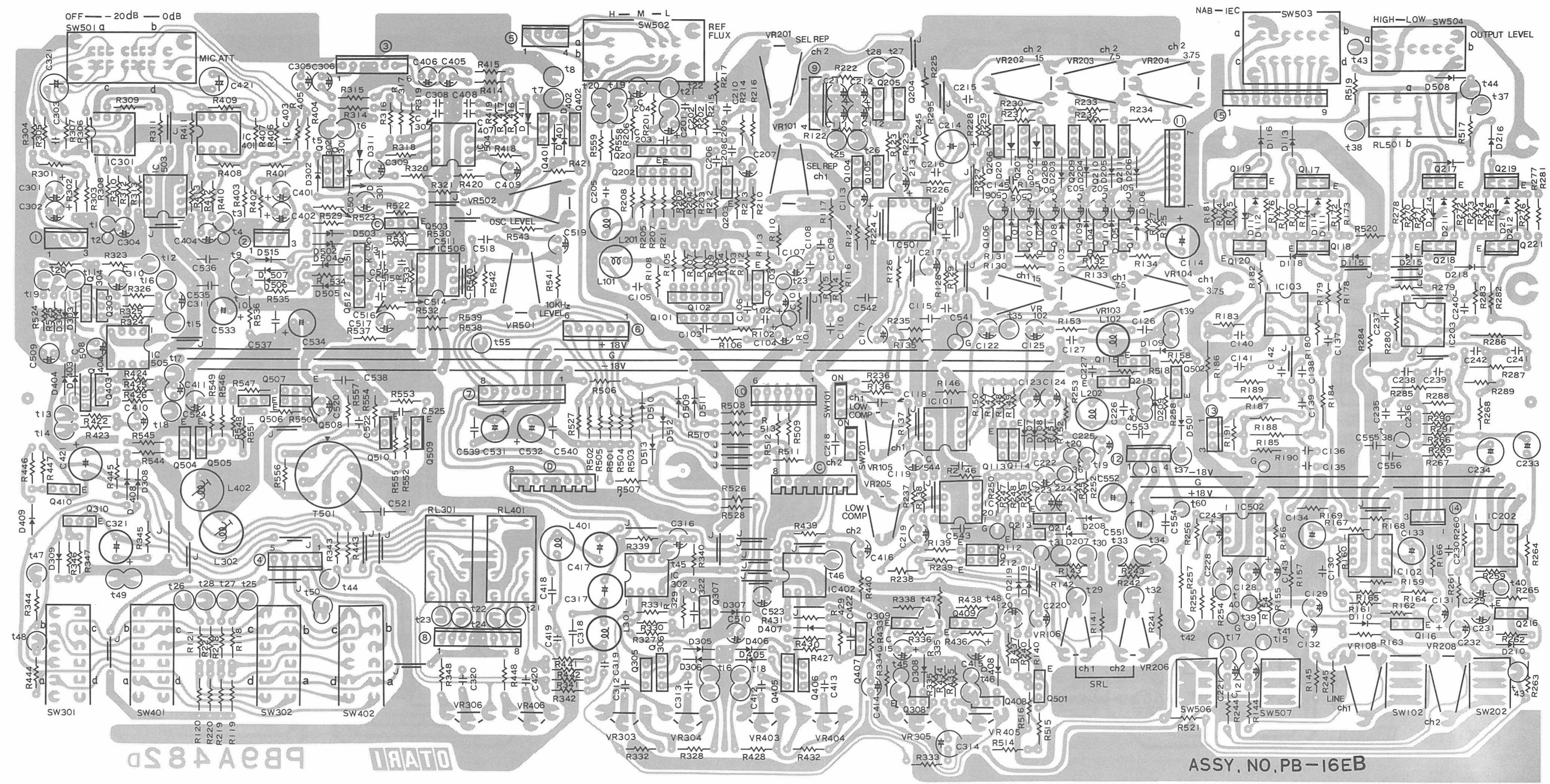
CB-705 CONNECTOR PANEL ASSEMBLY [8]:

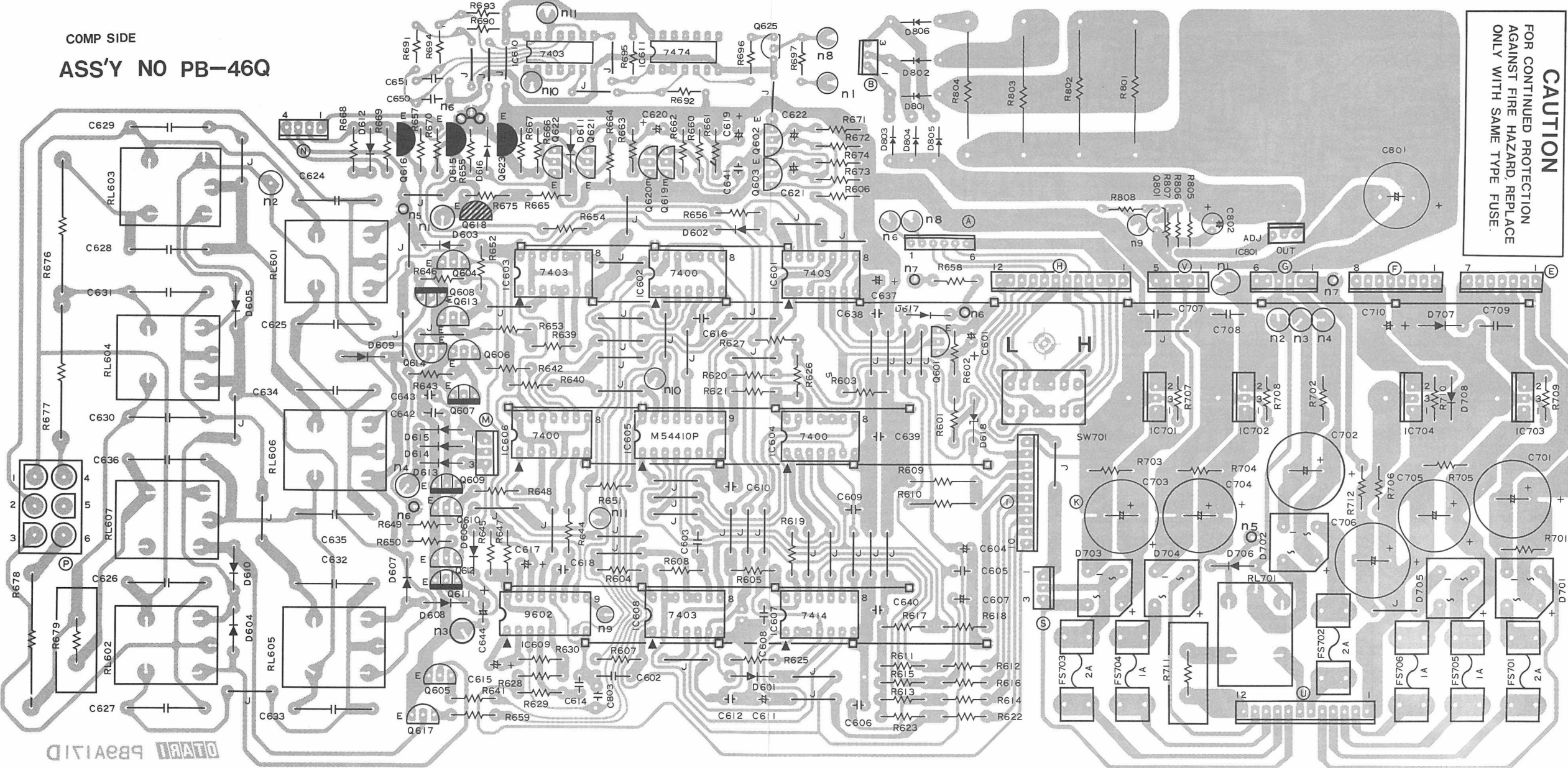
<u>Ref. No.</u>	<u>Description</u>	<u>Parts No.</u>	<u>Notes</u>
8- 1	Panel, Connector	CB70501	
2	Connector, XL-Type Receptacle	CN103046	
3	Connector, XL-Type Plug	CN103045	
4	Connector, AC	CN603012	
5	Connector, Remote Control	CN7C-006	
6	Connector, Terminal Ground	CN901040	
7	Panel, Rear	A106204	

A1062 REC & REPRO AMP. ASSEMBLY [9]:

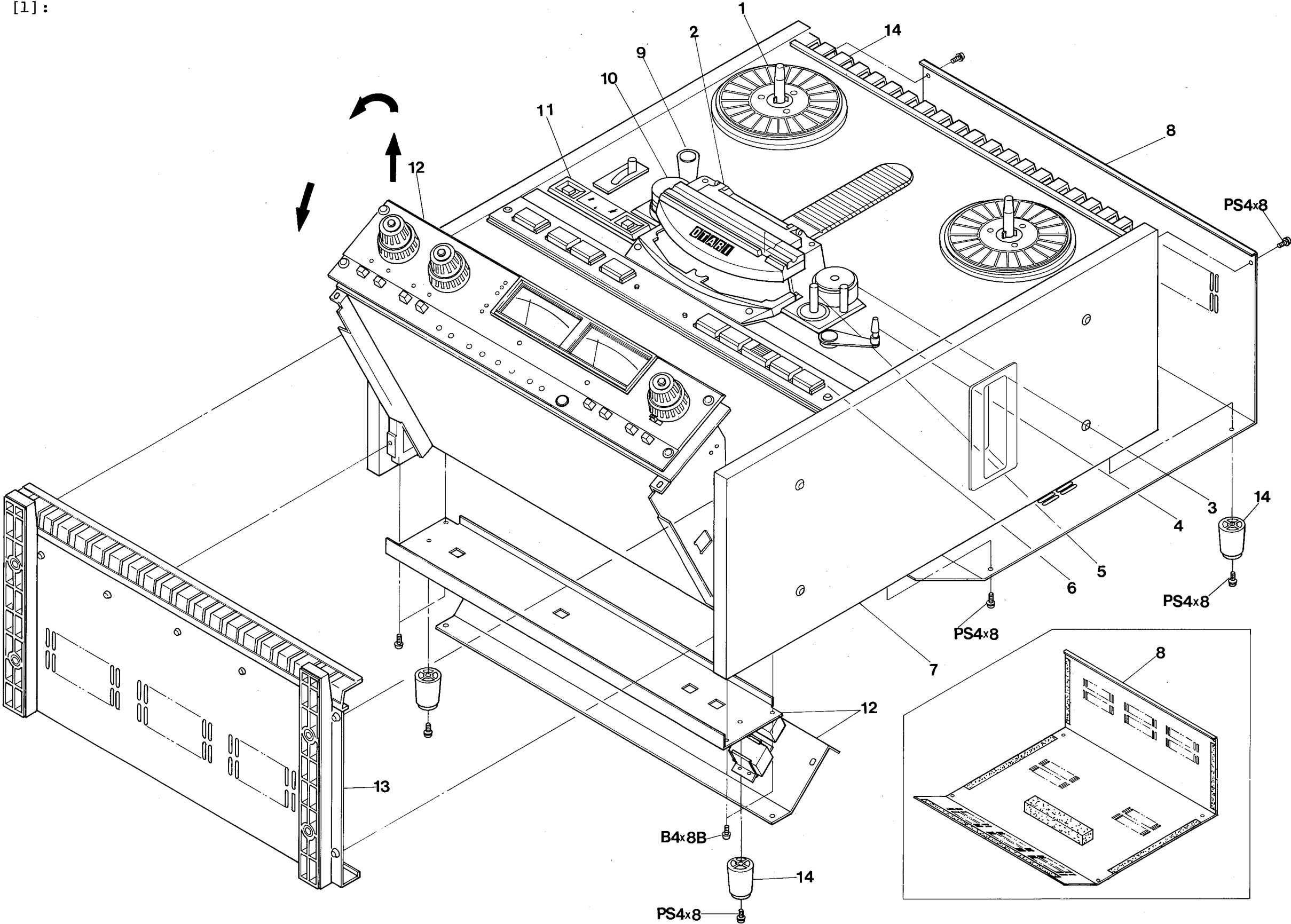


PB-16EB REC & PB AMP P.C.B. ASSEMBLY [1]:

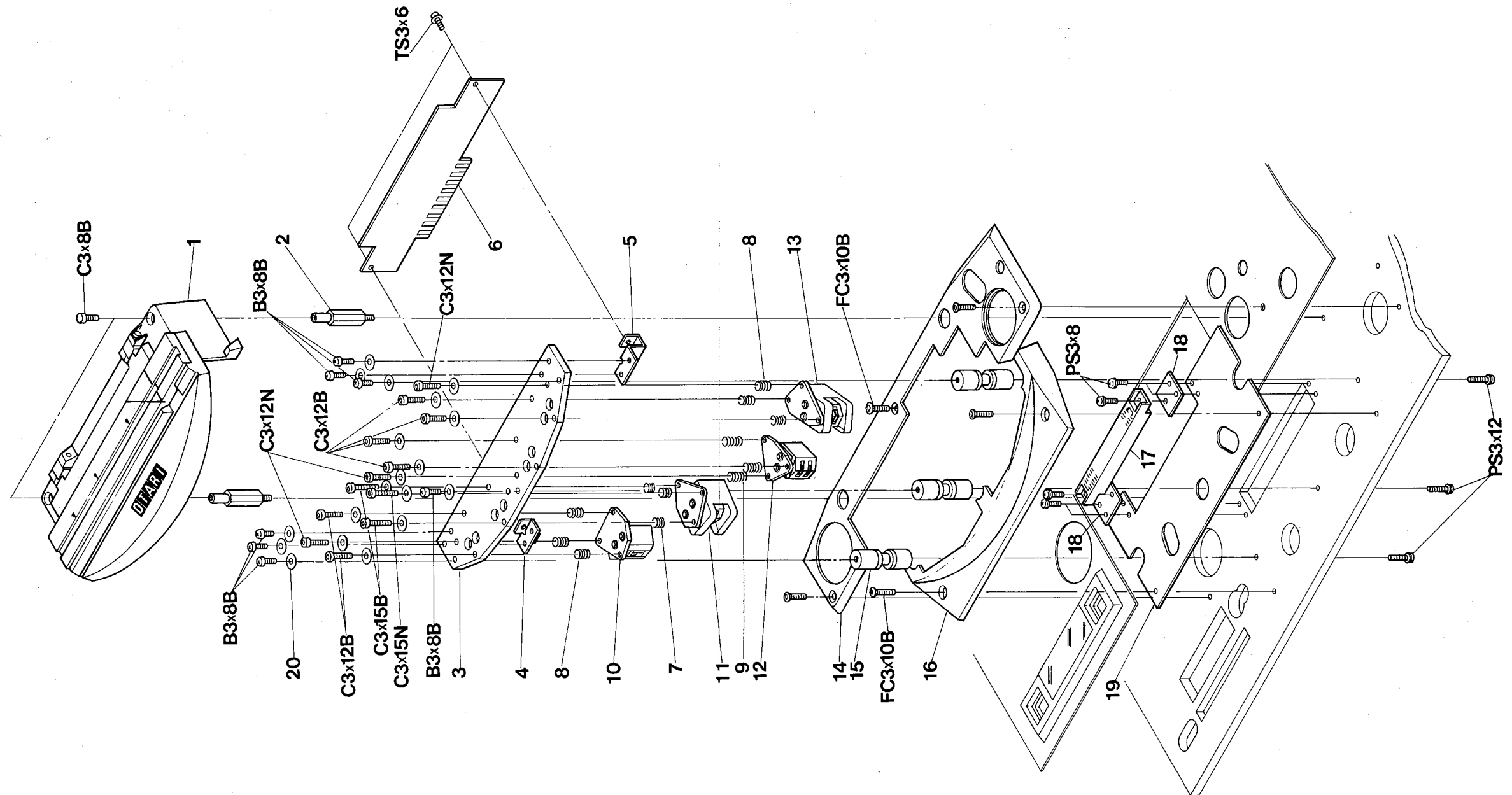




OVERALL [1]:



KH-411 HEAD ASSEMBLY [2]:



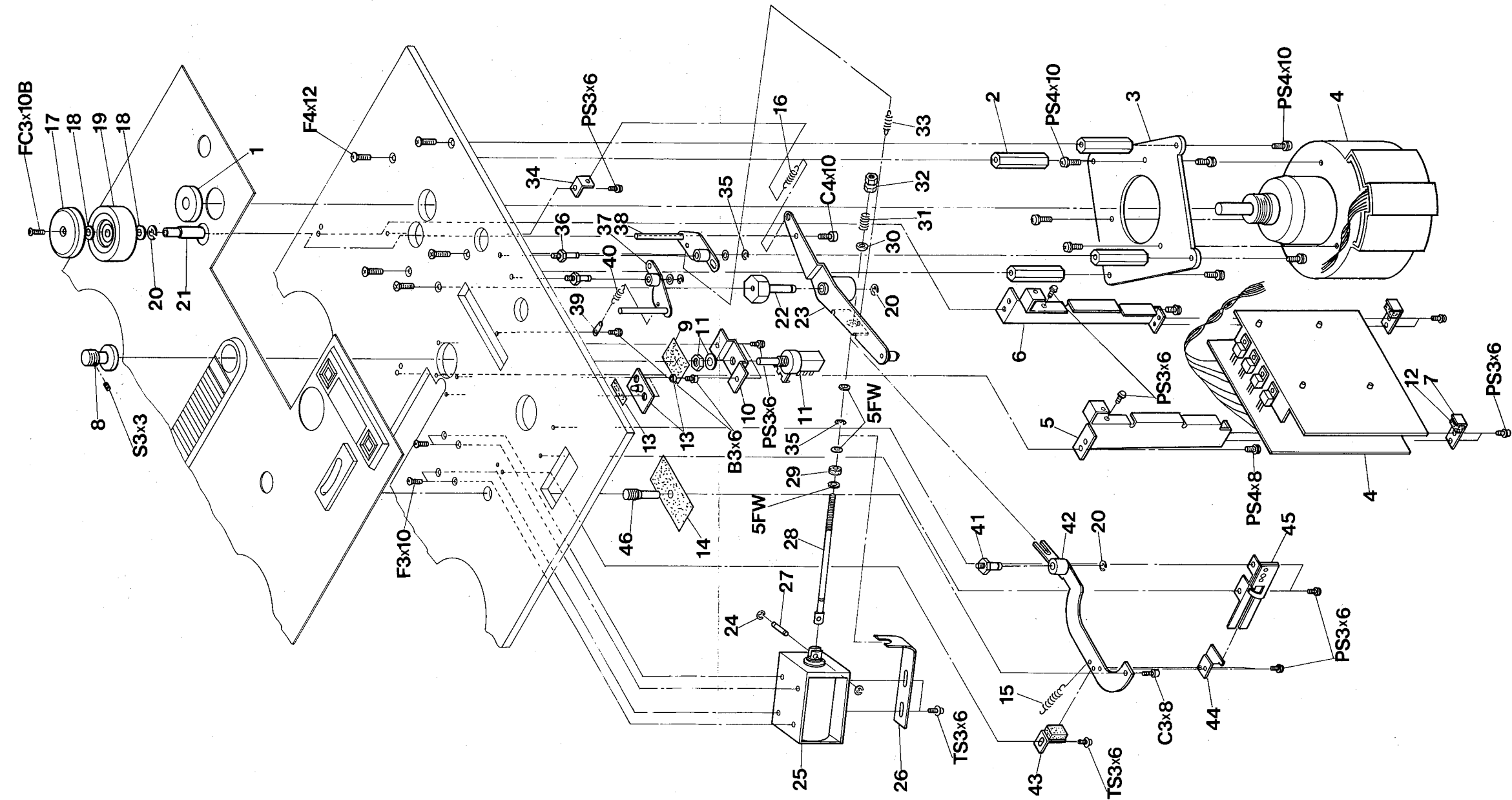
KH-41I HEAD ASSEMBLY [2]:

<u>Ref. No.</u>	<u>Description</u>	<u>Parts No.</u>	<u>Notes</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Parts No.</u>	<u>Notes</u>
2- 1	Head Cover	KH-4Y-A		13	Head Ass'y, Repro (4T)	GH4P069C	NAB 2T 2CH, 4T 2CH, DIN STEREO
2	Stand Off	KH4Y009					
3	Base, Head Ass'y	KH0C047			Head, Reproduce	GH4P069-	
4	Bracket, Head PCB	KH41I01			Shield, Head	KH0B028-	
5	Bracket, Head PCB	KH41I02			Plate, Mounting	KH0D017-	
6	PCB Ass'y, Head	PB-78I		*	Head Sub Ass'y	KH-41IA	NAB 2T 2CH
7	Spring, Head	GS2019			Head Sub Ass'y	KH-41QA	DIN STEREO
8	Spring, Head	GS2016			Head Sub Ass'y	KH-41TA	NAB 4T 2CH
9	Spring, Head	GS2015			Head Sub Ass'y	KH-41OA	Full Track Mono
10	Head Ass'y, Erase	GH4E082B	NAB 2T 2CH, DIN STEREO				
	Head, Erase	GH4E082-		14	Escutcheon, Head Ass'y, Rear	KH0F038	
	Plate, Mounting	KH0D017-		15	Guide, Tape	KG0D00C	
	Head Ass'y, Erase	GH4E058A	NAB 4T 2CH	16	Escutcheon, Head Ass'y, Front	KH0F037	
	Head, Erase	GH4E058-		17	Connector	CN314002	
	Plate, Mounting	KH0d017-		18	Bracket, Connector	KH4Y004	
	Head Ass'y, Erase	GH4E012B	Full Track	19	Shield, Head		KH4Y001A
	Head, Erase	GH4E012-		20	Washer, Polyslide	F524-3	
	Plate, Mounting	KH0D017-					
	Spacer	KH0D059-					
11	Head Ass'y, Repro (2T)	GH4P027A	NAB 2T 2CH, 4T 2CH				
	Head, Reproduce	GH4P027-					
	Shield, Head	KH0B028-					
	Plate, Mounting	KH0D017-					
	Head Ass'y, Repro	GH4P099C	DIN STEREO				
	Head, Reproduce	GH4P099-					
	Shield, Head	KH0B028-					
	Plate, Mounting	KH0D017-					
	Head Ass'y, Repro	GH4P112C	Full Track				
	Head, Reproduce	GH4P112-					
	Shield, Head	KH0B028-					
	Plate, Mounting	KH0D017-					
12	Head Ass'y, Record	GH4R005B	NAB 2T 2CH				
	Head, Record	GH4R005-					
	Plate, Mounting	KH0D017-					
	Head Ass'y, Record	GH4R100D	DIN STEREO				
	Head, Record	GH4R100A					
	Shield, Head	KH0B028-					
	Plate, Mounting	KH0D017-					
	Head Ass'y, Record	GH4R033B	NAB 4T 2CH				
	Head, Record	GH4R033-					
	Plate, Mounting	KH0D017-					
	Head Ass'y, Record	GH4R111C	Full Track				
	Head, Record	GH4R111-					
	Plate, Mounting	KH0D017-					

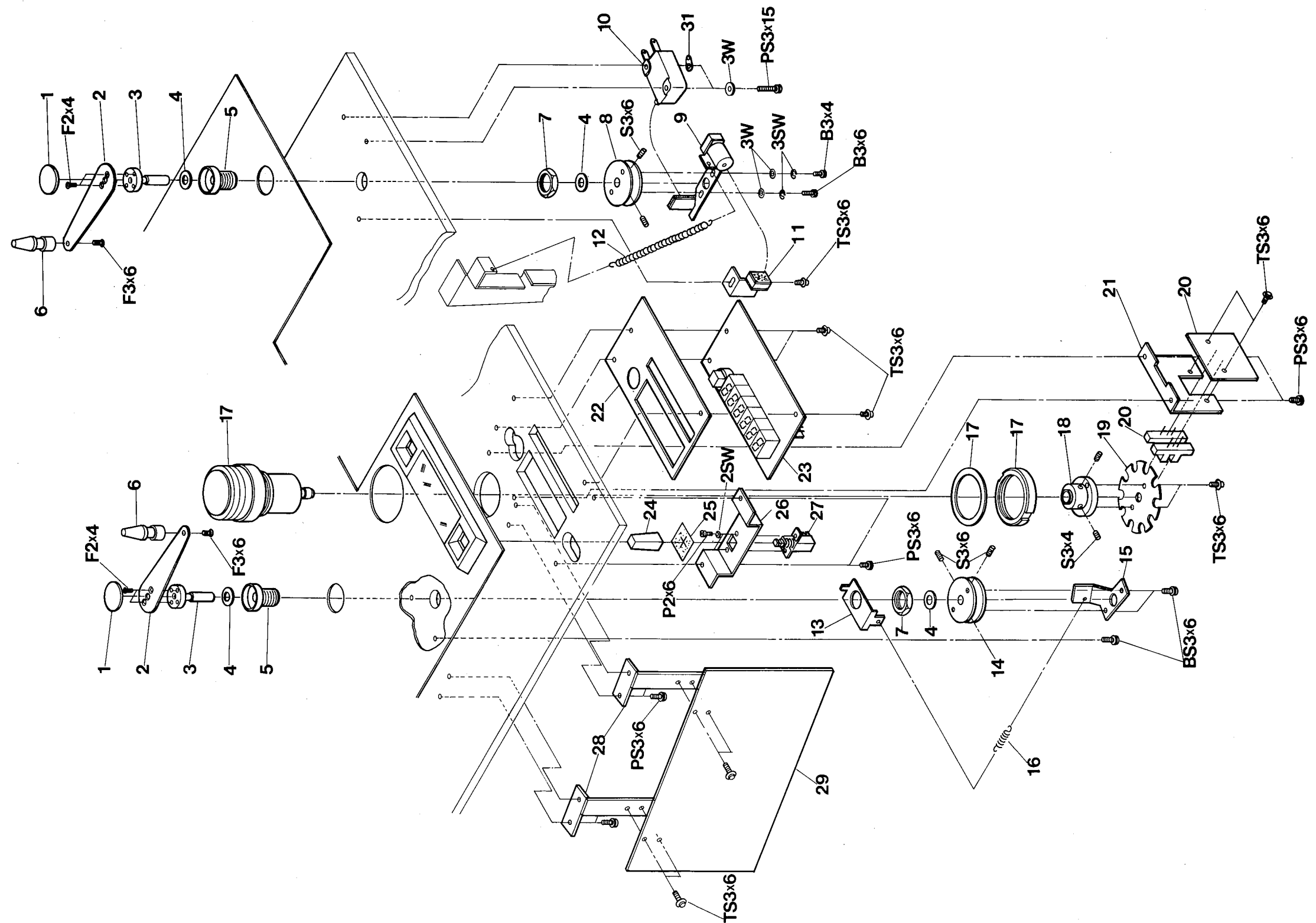
T5067 TAPE DECK ASSEMBLY [3]:

<u>Ref. No.</u>	<u>Description</u>	<u>Parts No.</u>	<u>Notes</u>
3- 1	Deck Skin	T5064-A	
2	Guide, Fixed	KG6E003	
3	Deck Plate	T506701	
4	Panel, Transport Control	T506702	
5	Bracket, Transport Control	T506705	
6	Bracket, Deck Plate, Rear	K102911	
7	Transformer, Power	TF11073	
8	Cable Tie	PZ1G053	
9	PCB Ass'y, Edit/Record LED	PB-83E	
10	Cushion	PZ1B051	
11	Cushion	PZ1B052	
12	Bracket, Frame, Rear	T506104	
13	Frame, Side	KZ1A050	
14	Bracket, PCB	T506704	
15	Bracket, PCB	T506703	
16	PCB Ass'y, Control	PB-46Q	
17	Protector Strip, Bracket	PZ1G027	
18	Bracket, PCB	T506706	
19	Bracket	T506711	
20	Bracket	T506710	
21	Cushion	PZ1C031	
22	Shaft	KZ9P160B	
23	Collar	KZ9P030B	
24	Collar	KA6A021	
25	Washer, Nylon	KZ6C011	
26	Spacer	KZ9C060B	
27	Bracket	KZ3A068	
28	Washer, Decoration	KZ6C051	

KC-4X CAPSTAN ASSEMBLY [4]:
KP-4N PINCH ROLLER ASSEMBLY [4]:
KP-4L SHIFTER ASSEMBLY [4]:



KA-4X TENSION ARM ASSEMBLY [5]:
 KI-4J IMPEDANCE ROLLER ASSEMBLY [5]:
 SR-50 TAPE TIMER ASSEMBLY [5]:



CB-252 CONTROL SWITCH ASSEMBLY [6]:

