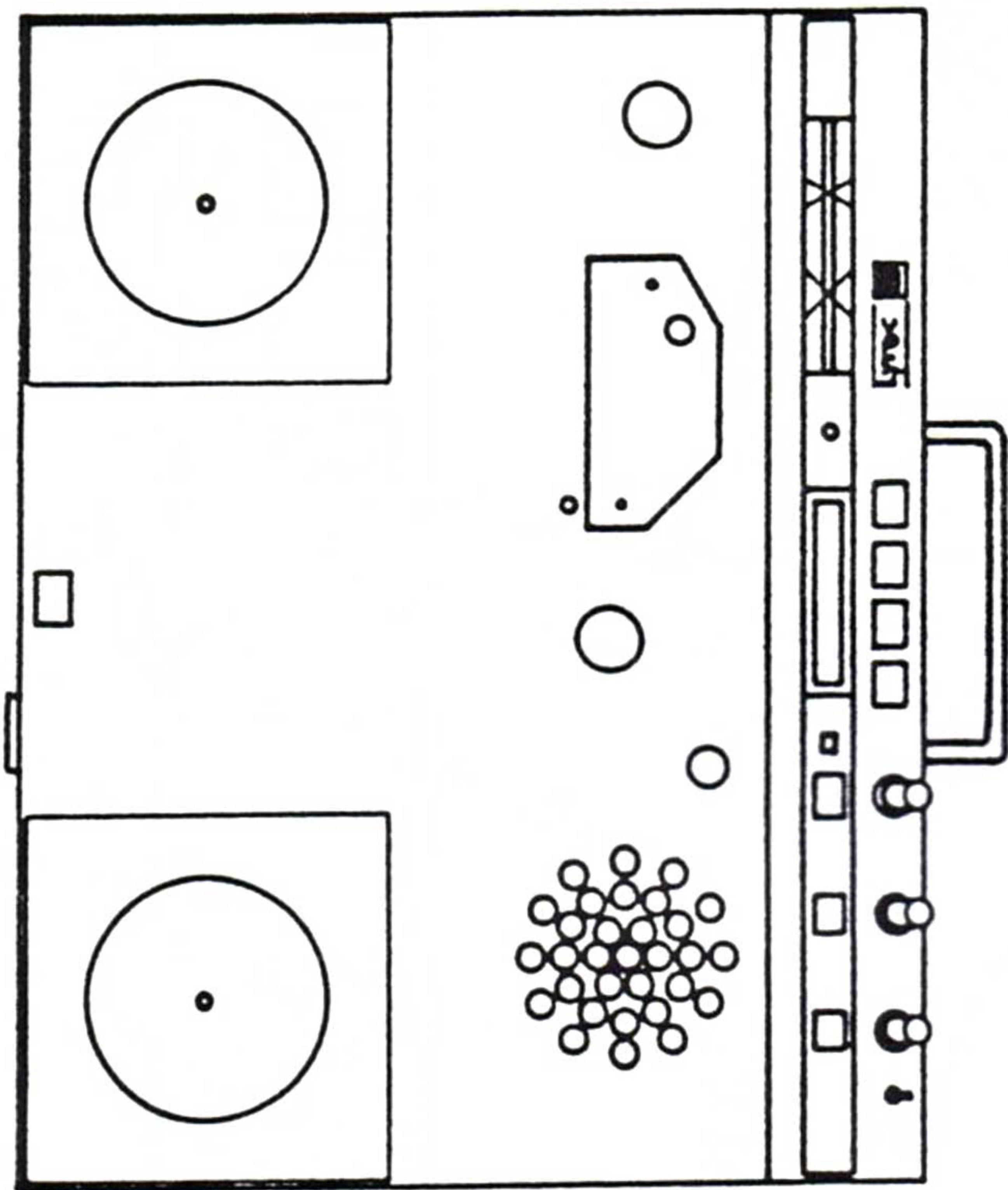
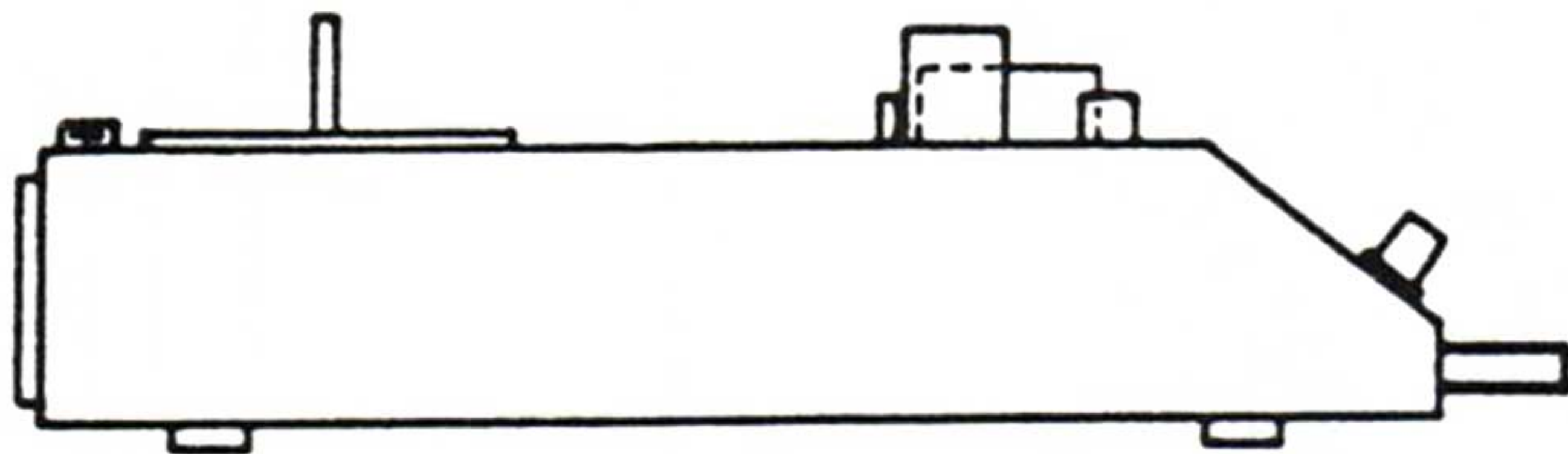


## DRAWINGS COVERING FRED RB-04 EDITING TAPE DECK

#	TITLE	DESCRIPTION/REMARKS	SIZE
1667	TAPE DECK LAYOUT	TOP AND SIDE VIEW	A4
1668	FRONT PANEL LAYOUT		A3>A4
1662	ERASE & PLAYBACK AMP 1/3	PCB 8507	A3>A4
1662	ERASE & PLAYBACK AMP 2/3	PCB 8507	A3>A4
1662	ERASE & PLAYBACK AMP 3/3	COMPONENT LAYOUT	A4
1666	HEADPHONE AND MONITOR AMP	PCB 8508	A3>A4
1669	MOTHERBOARD	PCB 8502	A3>A4
2547	TACHO SENSOR	PCB 940380	A3>A4
1671	INTERCONNECTIONS	PCB 8118	A4
1672	INTERCONNECTIONS	PCB 8119	A4
1772	POWER SUPPLY	PCB 8505	A3>A4
1773	POWER SUPPLY	COMPONENT LAYOUT	A3>A4
1673	REELMOTOR TACHO SENSORS TAPE/EDIT TAPE SENSORS	PCB 8506, 8504	A3>A4
2652	TAPE DECK LOGIC	BLOCK DIAGRAM	A3>A4
2922	TAPE DECK LOGIC 1/4 SERVO	PCB 8501 REV 7	A3/A4
2922	TAPE DECK LOGIC 2/4 LOGIC	PCB 8501 REV 7	A3/A4
2922	TAPE DECK LOGIC 3/4 DISPLAY	PCB 8501 REV 7	A3/A4
2922	TAPE DECK LOGIC 4/4	COMPONENT LAYOUT	A3/A4
1658	INTERNAL LAYOUT		A3>A4
1675	TAPE PATH		A4
1676	MOTHERBOARD	COMPONENT LAYOUT	A3>A4



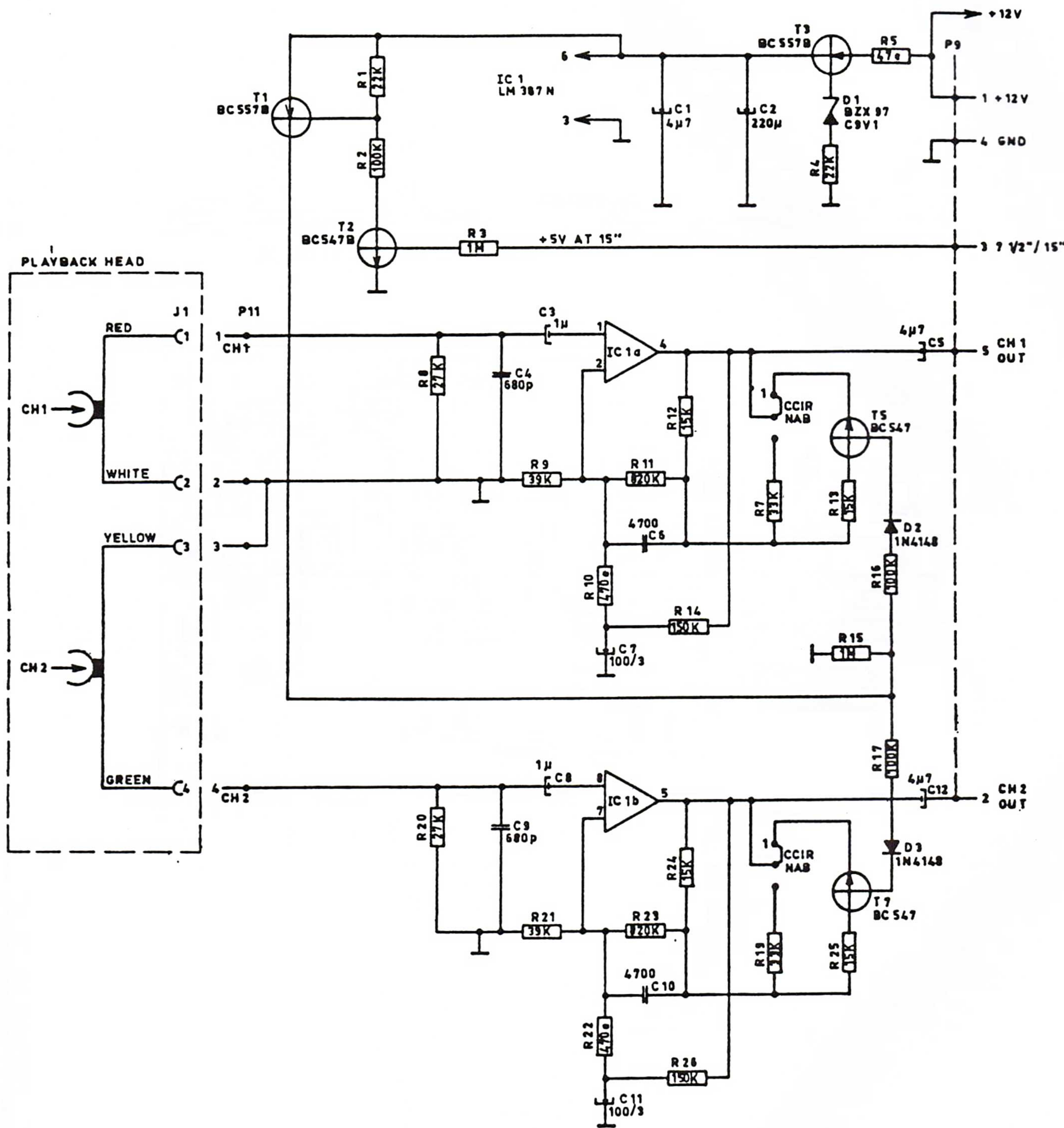



				ANV.	FRED RB - 02						
				<div>Lyrec</div> <div>OF DENMARK</div> <div></div>				Målst.	Tegn.	Re S/JB	860313
								1: 5	Kont.		
									Godt.		
				Tape deck layout				Erst.			
								Mappe	1667		
								Ersts.			
Nr.	Dato	Sign.	Ændring								



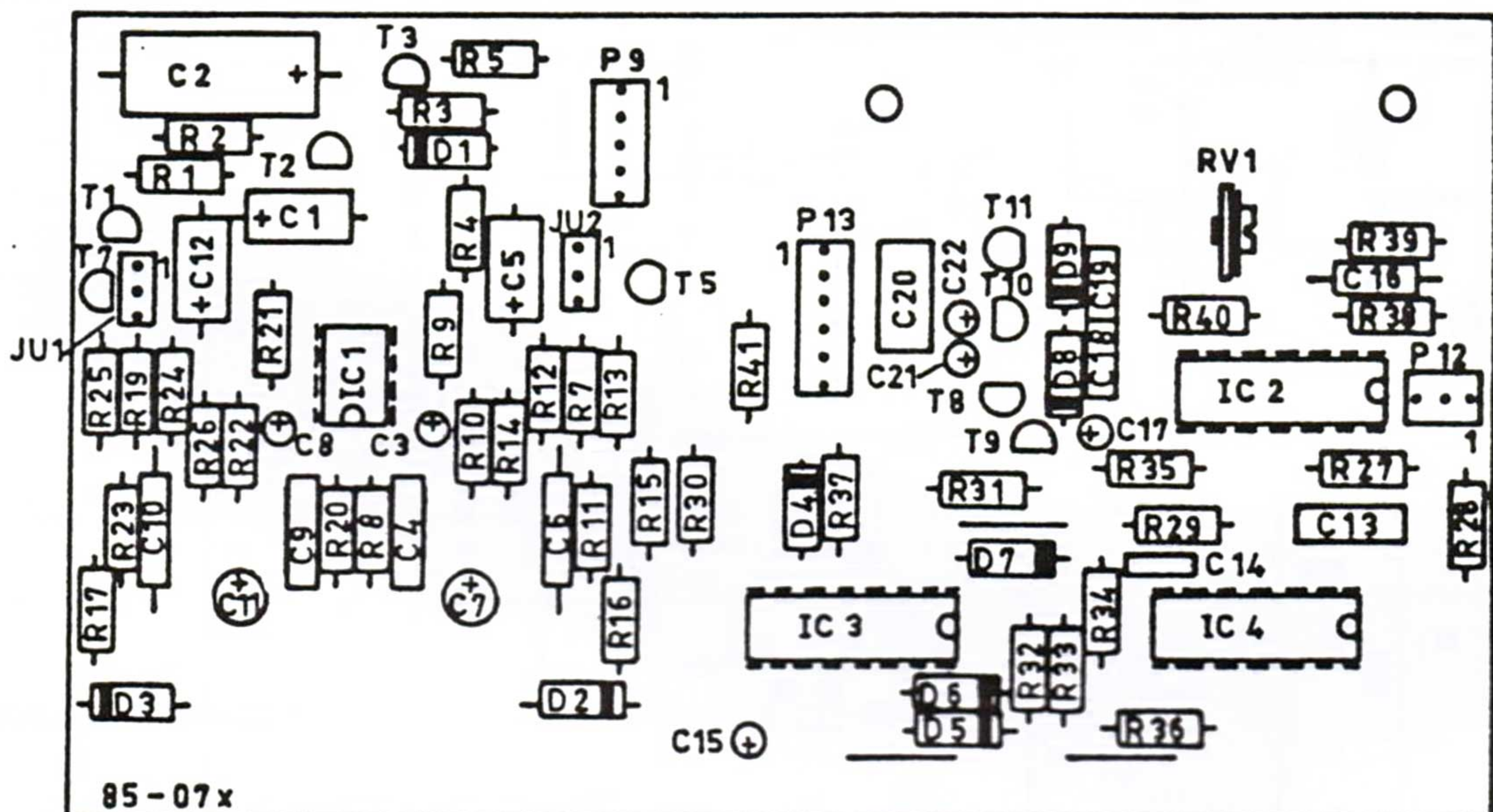
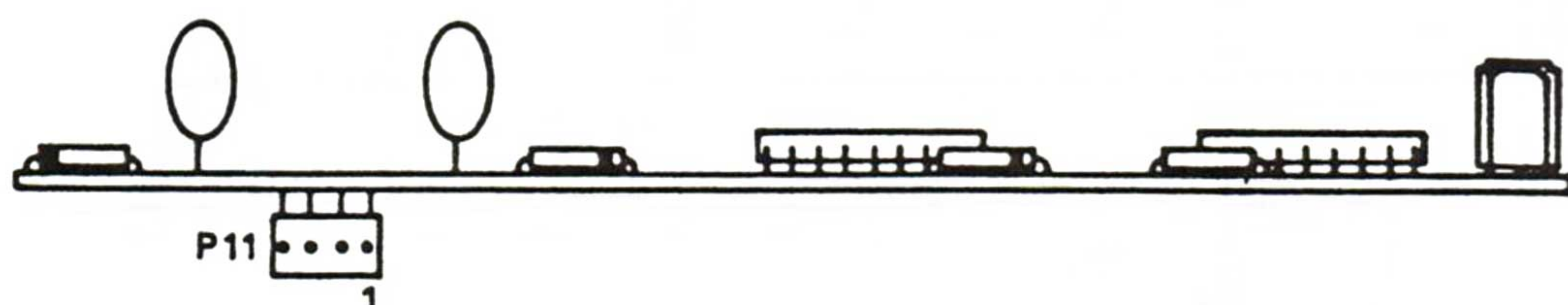






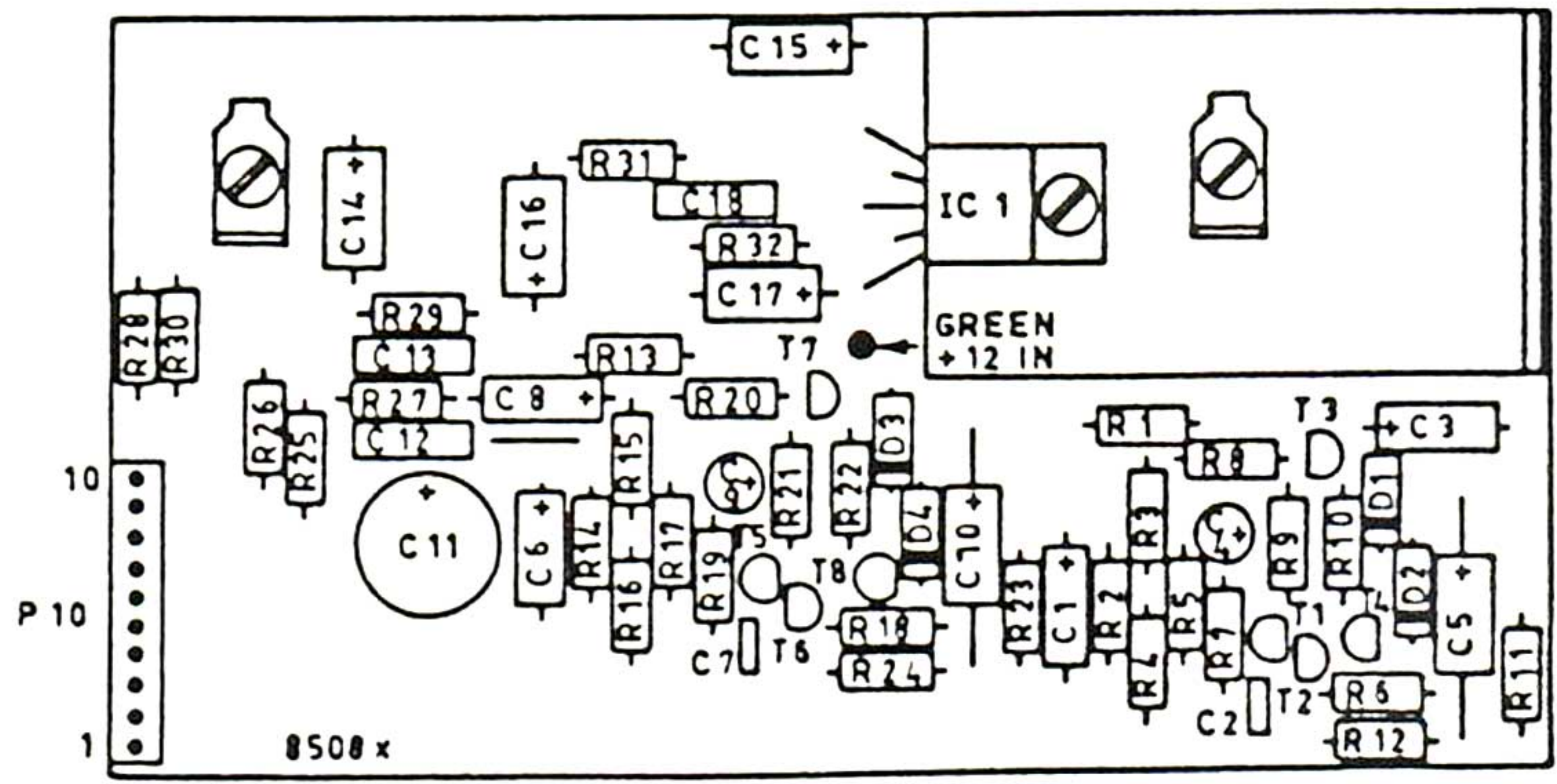
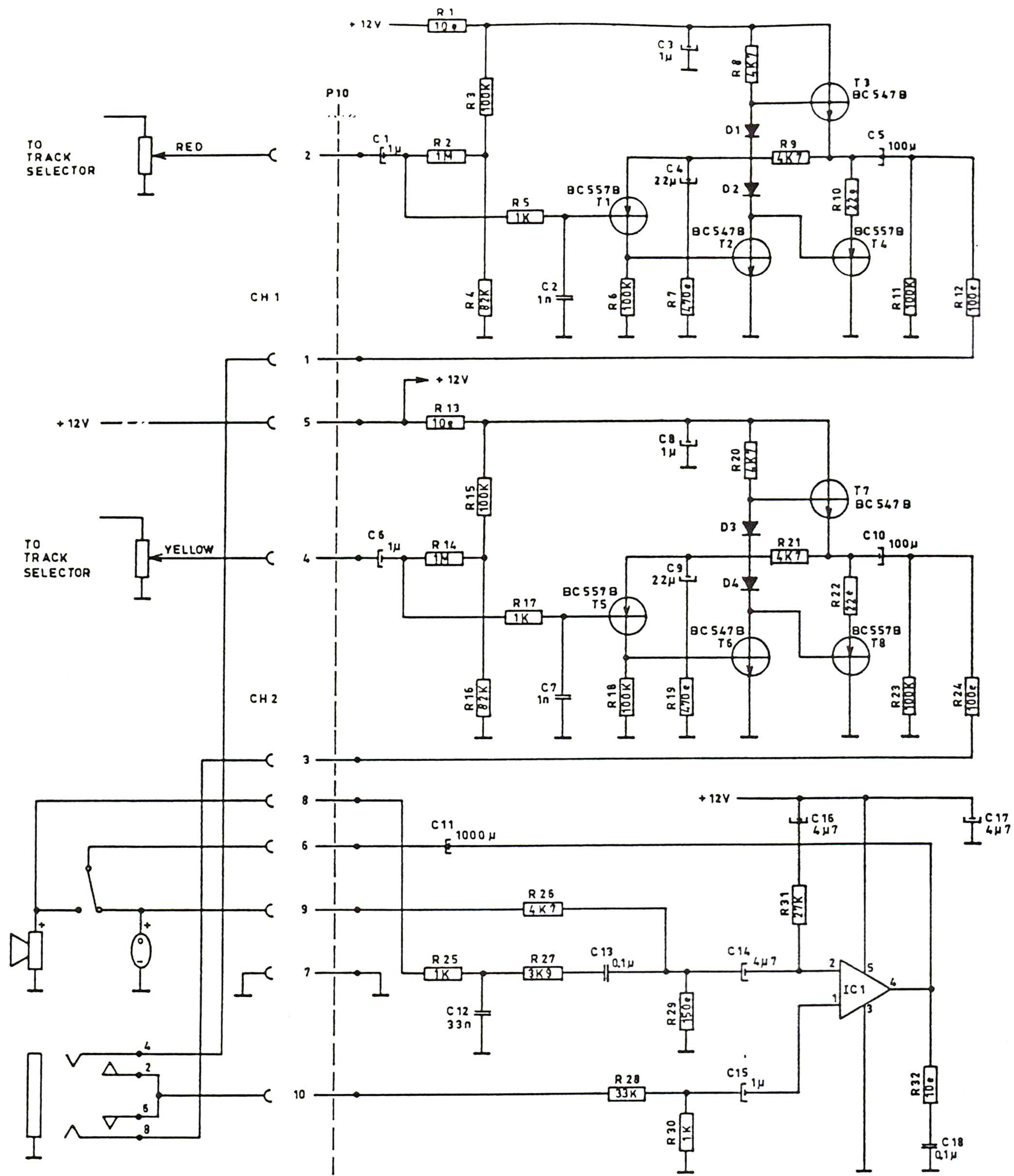
				ANV.	FRED RB-02 • FRED DSL RB-03					
					<b>Lyrec</b> OF DENMARK		Model	Techn.	ReS/UB	86 032
							Kont.			
							Opst.			
					Erase & Playback Amp 2/3		Erol.	1662		
							Mappe			
2	88.10	BA	R28 OG C13 AENDR							
1	86.03	ReS	NAB TILF							
Nr	Date	Sign.	Ændring				Erols			





				ANV.	FRED RB-02 • FRED DSL RB-03					
				<div>Lyrec</div> <div>OF DENMARK</div> <div></div>			Målst.	Tegn.	ReS/J B	86.02 21
			Konf.							
			Godk.							
				Erase & Playback Amp. 3/3			Erst.			
2	88.10	BA	R28 OG C13 ÆNDR.				Mappe	1662		
1	86.03	ReS	NAB TILF.				Erst.			
Nr.	Dato	Sign.	Ændring							





				ANY	FRED RB -02		PCB 8508		
				<div>Lyrec</div> <div>* DENMARK *</div> <div></div>		Matel.	Techn.	ReS/JB	06.02.28
							Kard.		
							Qodh.		
				Headphone & monitor amplifier		Erel.			
						Mappe	1666		
						Erel.			
1	89	AN	R28 10K — 33K						
Nr		Data Sign		Ending					





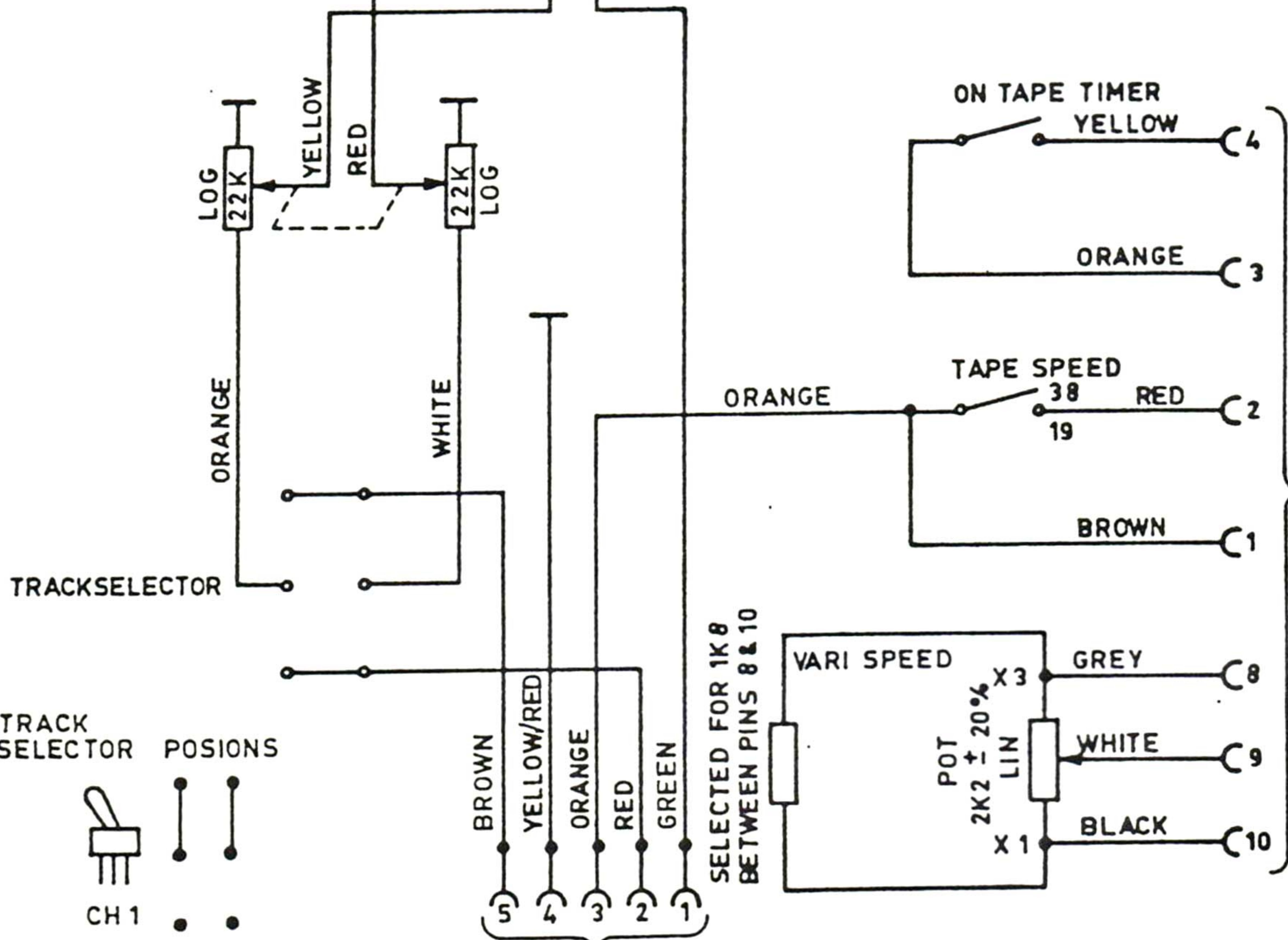
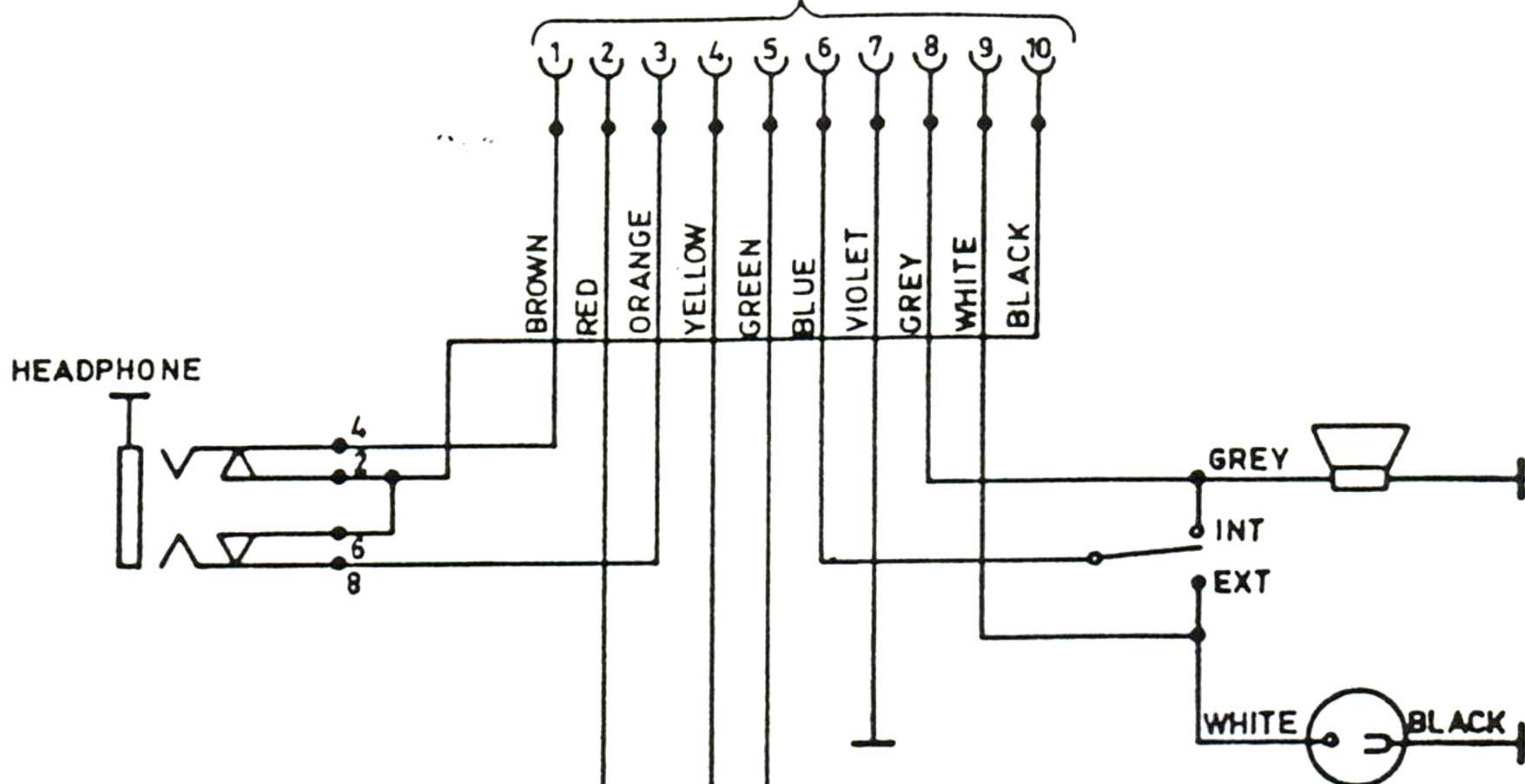






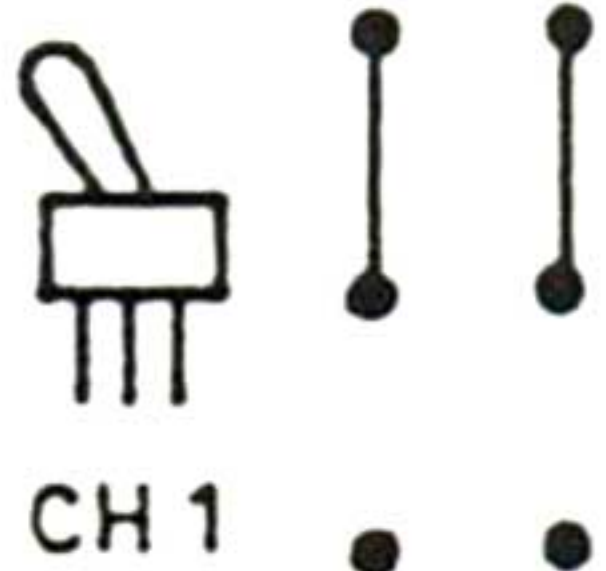
CONNECTS TO PCB 8508, P10

J10

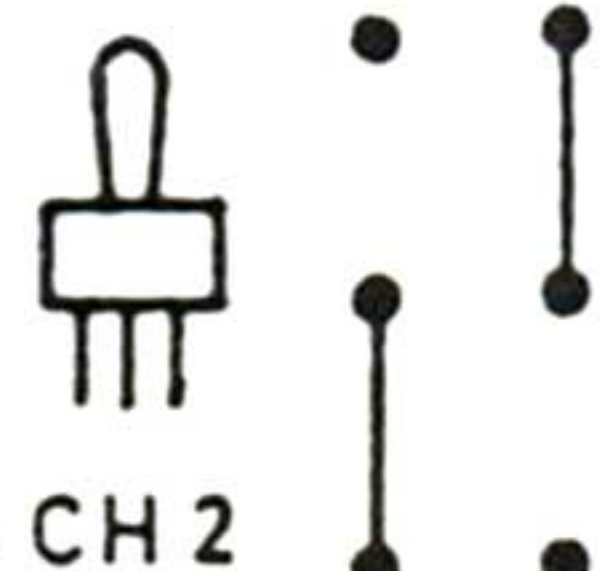


J5  
CONNECTS  
TO P5,  
PCB 8502

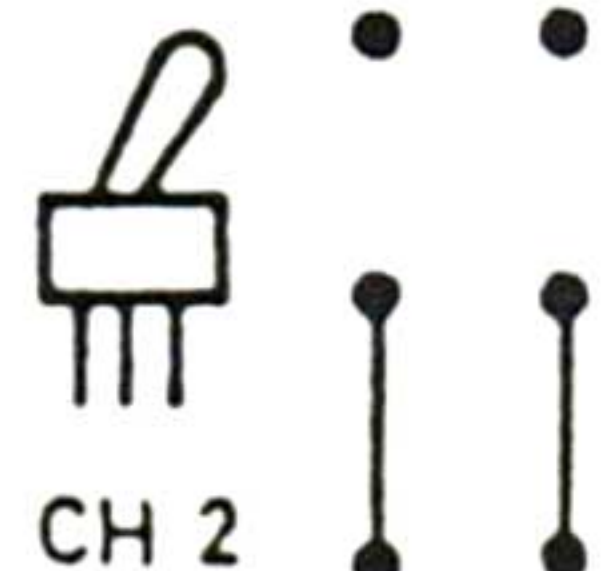
TRACK  
SELECTOR POSIONS



CH 1



CH 1 + CH 2



CH 2

J9  
CONNECTS TO P9 PCB 8507

ANV. FRED RB-02

**Lyrec**  
OF DENMARK

Måst. Tegn. ReS/JB 8603.13

Kord.

Godk.

Erst.

Mappe 1671

Erst.

Interconnections

Nr Dato Sign Ændring



TO 8505 PSU UNIT

TO 8502 MOTHER BOARD

J6

J2

1 ) ————— C 1 —————&gt; + 18 V UNREGULATED

2 ) ————— C 2 —————&lt; SUPPLY MOTOR CONTROL

3 ) ————— C 3 —————&lt; TYRISTOR CONTROL

4 ) ————— C 4 —————&lt; TAKE UP MOTOR CONTROL

5 ) ————— C 5 —————⊥ GROUND

6 ) ————— C 6 —————⊥ GROUND

7 ) ————— C 7 ————— + 5V

8 ) ————— C 8 ————— + 5V

9 ) ————— C 9 ————— + 5V

10 ) ————— C 10

11 ) ————— C 11

12 ) ————— C 12 —————&gt; SIGNAL SUPPLY TACHO SENSOR

13 ) ————— C 13

14 ) ————— C 14 —————&gt; SIGNAL TAKE UP TACHO SENSOR

15 ) ————— C 15

16 ) ————— C 16 —————&lt; TAPE LIFT OUT

17 ) ————— C 17 —————&gt; FAULT DETECTION

18 ) ————— C 18 —————&lt; MECHANICAL BRAKE DISABLE

19 ) ————— C 19

20 ) ————— C 20

ANV. FRED RB - 02

**Lyrec**  
 OF DENMARK


Målst.

Tegn.

ReS/JB 85.0312

Konf.

Godk.

Erat.

Mappe

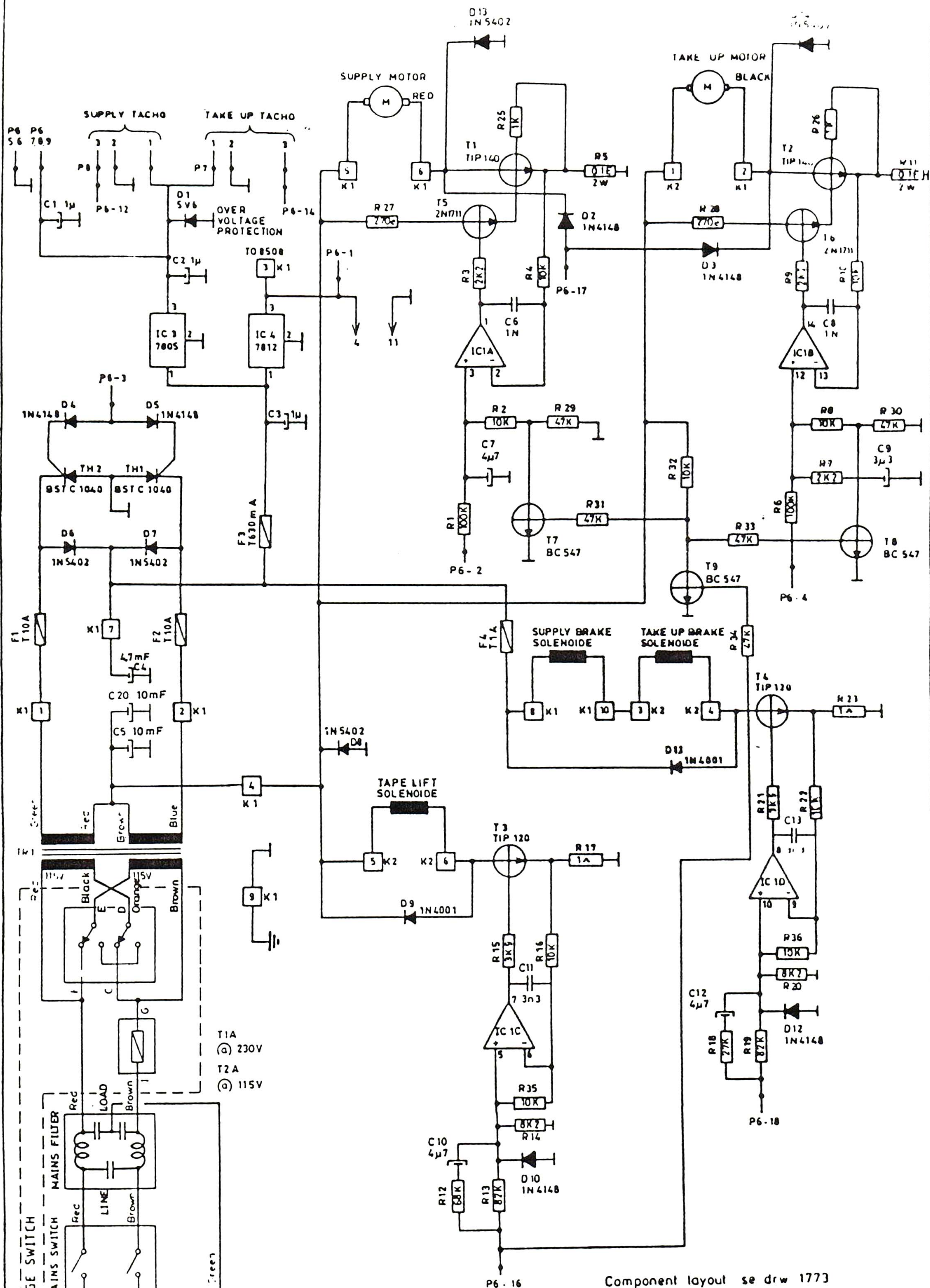
1672

Erst.

Interconnections

Nr.	Dato	Sign.	Ændring

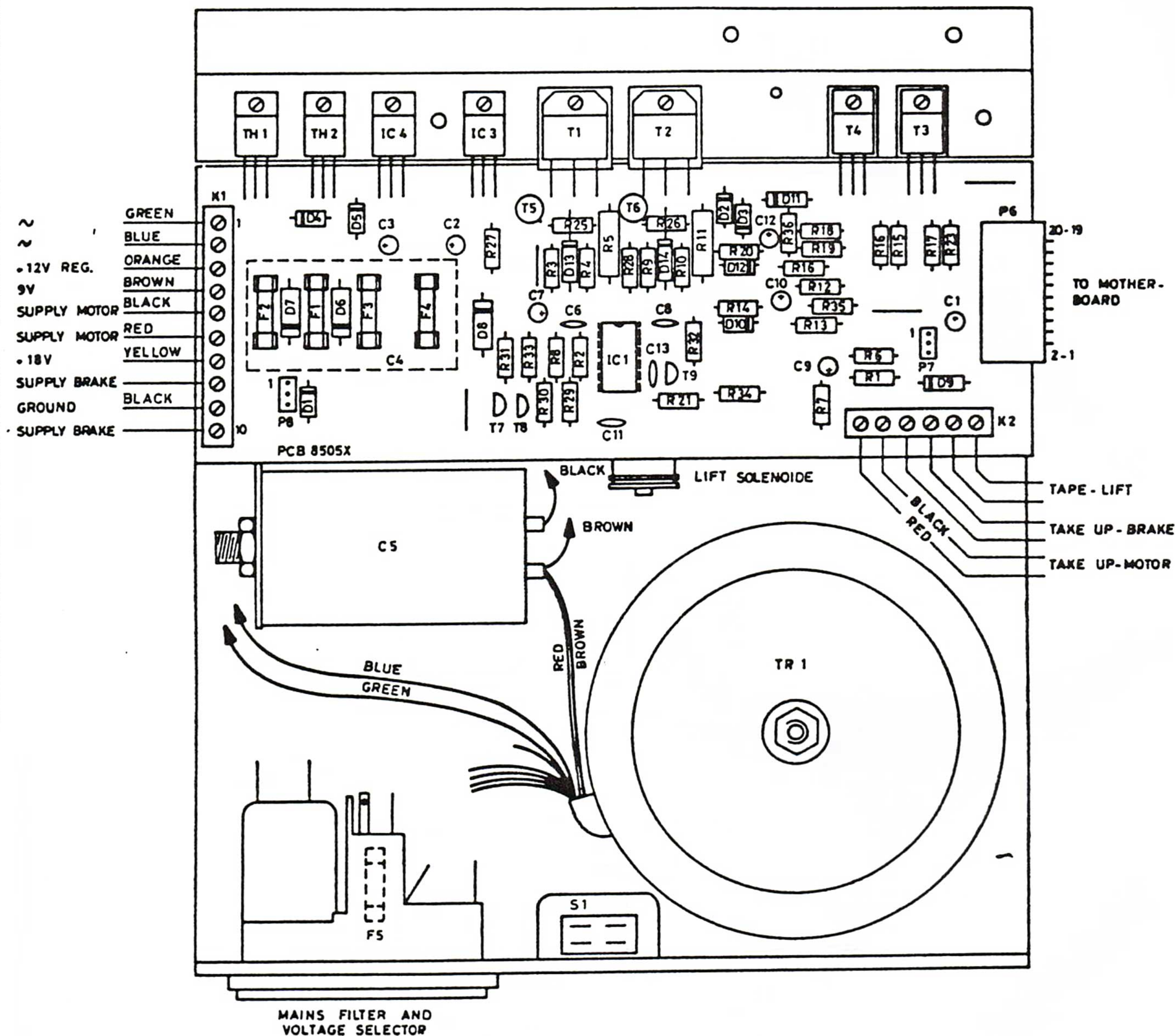




Component layout see drw 1773

9	9204	ReS	NY REV UDG	AMV	FRED DSL	FRED HB	2	RB	03	WH	04	WB	05
8	9110	AN	NY REV UDG	<b>Lyrec</b>		Model	Image	U/B	05	06	07	08	09
7	9109	AN	NY REV UDG			Rev	Mappe						
6	9108	ReS	NY REV UDG	<b>Power Supply Unit</b>		Rev							
5	9107	AN	NY REV UDG			Mappe							
4	9106	AN	NY REV UDG	<b>1772</b>		Rev							
3	9105	AN	NY REV UDG			Mappe							
2	9104	AN	NY REV UDG	<b>1772</b>		Rev							
1	9103	AN	NY REV UDG			Mappe							

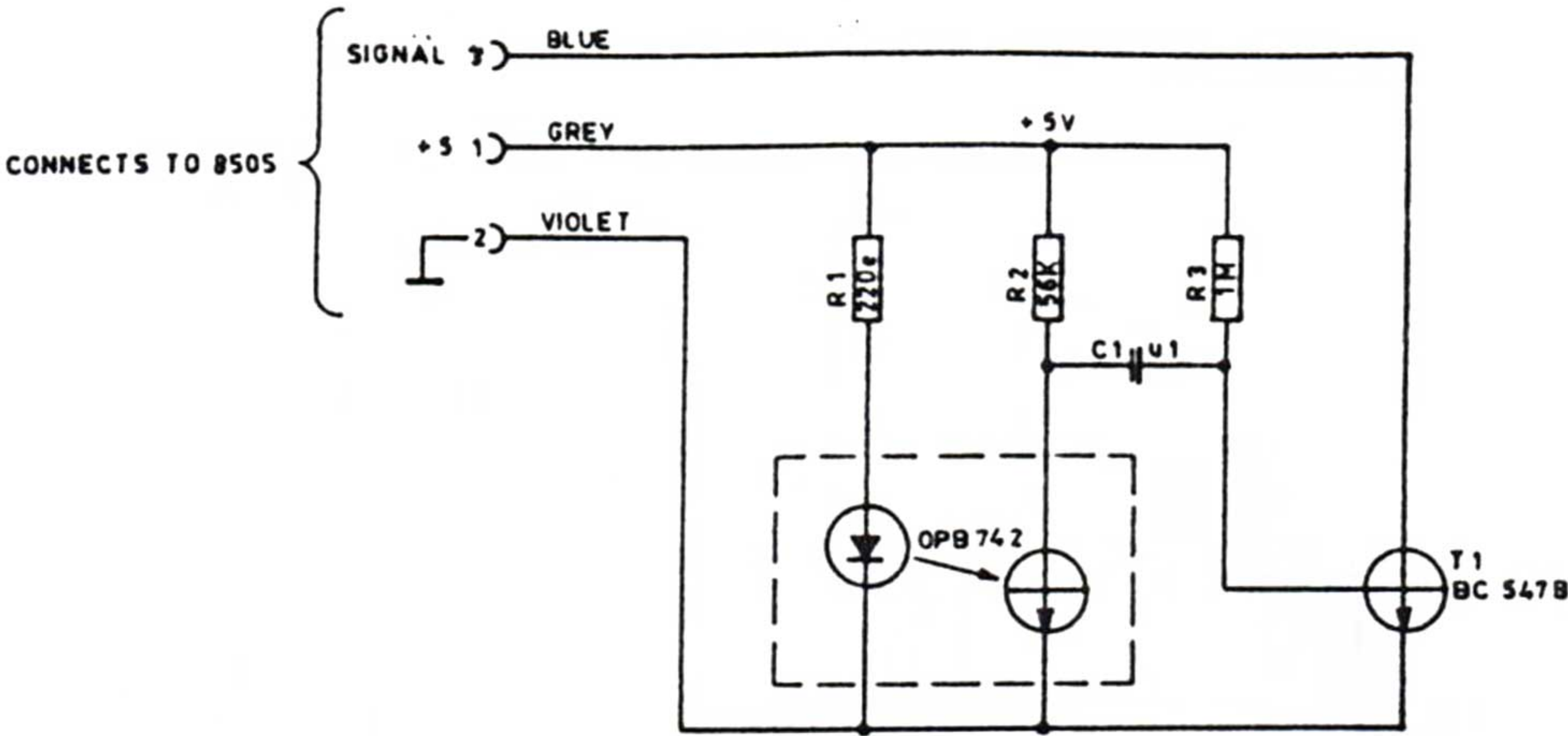




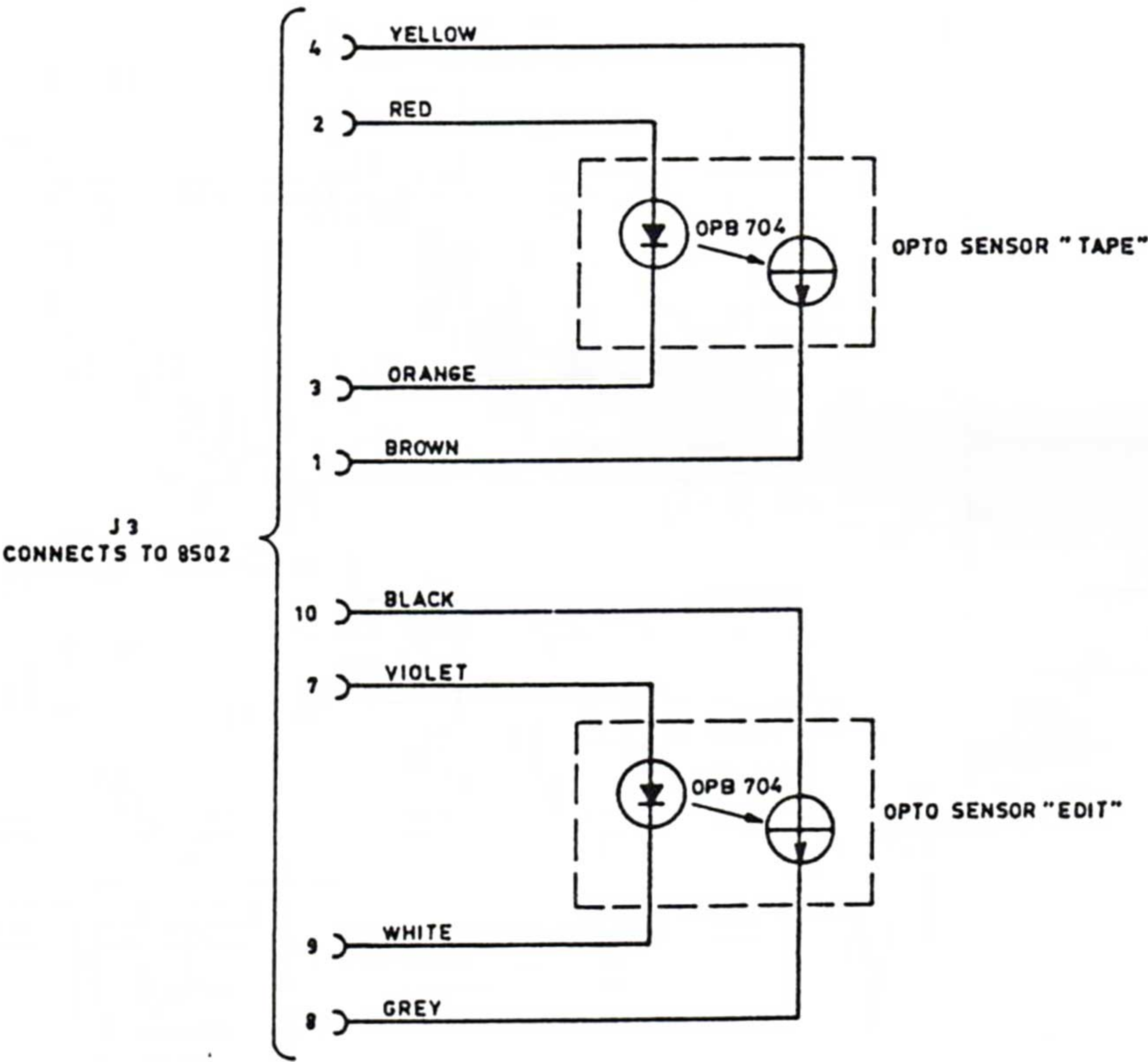
				ANY	FRED RB-02 FRED DSL RB-03				
				<div>Lyrec</div> <div>OF DENMARK</div>		Modul	Vergr.	Q / BS	08.03.22
							Kend.		
							Opst.		
4	9006	ReS	C11-C13 ÄNDR T3-T4 ÄNDR	Power supply unit Component layout		Erst.			
3	9005	KS	BLACK FJ			Mappe	1773		
2	8907	AN	NY REV UDG			Erst.			
Nr	Date	Sign.	Ändring						



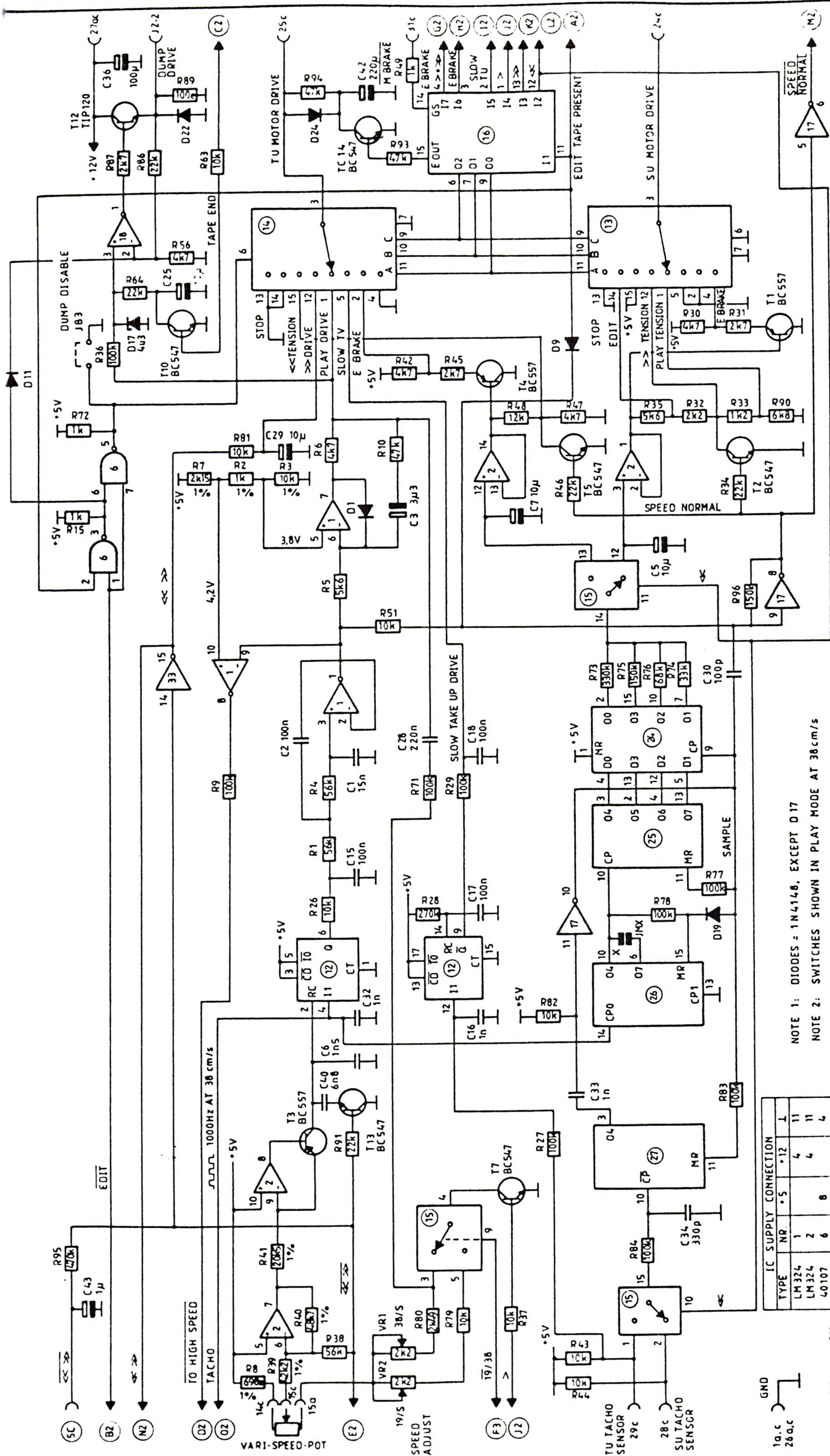
8504 TACHO SENSOR SUPPLY MOTOR  
8504 TACHO SENSOR TAKE UP MOTOR  
TACHO SENSORS ARE MOUNTED IN MOTOR ASSEMBLIES



OPTO SENSORS IN HEADBLOCK

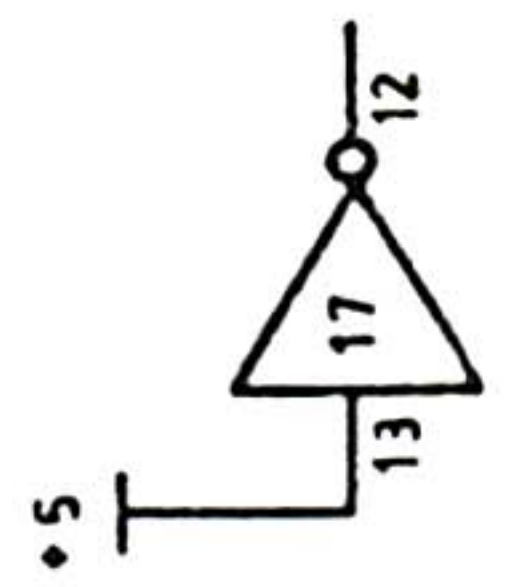






NOTE 1: DIODES = 1N4148, EXCEPT D17  
 NOTE 2: SWITCHES SHOWN IN PLAY MODE AT 38cm/s  
 NOTE 3: ◀ = CONNECTION TO OTHER SHEET(S)  
 NOTE 4: ▶ = CONNECTOR J1 IF NOT SHOWN.

TYPE	NR.	5	12	1
LM324	1	16	16	11
LM324	2	16	16	11
LM324	3	16	16	11
LM324	4	16	16	11
LM324	5	16	16	11
LM324	6	16	16	11
LM324	7	16	16	11
LM324	8	16	16	11
LM324	9	16	16	11
LM324	10	16	16	11
LM324	11	16	16	11
LM324	12	16	16	11
LM324	13	16	16	11
LM324	14	16	16	11
LM324	15	16	16	11
LM324	16	16	16	11
LM324	17	16	16	11
LM324	18	16	16	11
LM324	19	16	16	11
LM324	20	16	16	11
LM324	21	16	16	11
LM324	22	16	16	11
LM324	23	16	16	11
LM324	24	16	16	11
LM324	25	16	16	11
LM324	26	16	16	11
LM324	27	16	16	11
LM324	28	16	16	11
LM324	29	16	16	11
LM324	30	16	16	11
LM324	31	16	16	11
LM324	32	16	16	11
LM324	33	16	16	11



ANV	FRD RB-02 DSL RB03
Maist	
TCgn	BSI 92 08
Konl	
Gdsk	
Erst	2922
Mappe	
Erst	Sheet 1 of 4

**Lyrec**  
 Tape deck Logic  
 1/4, Tape servo



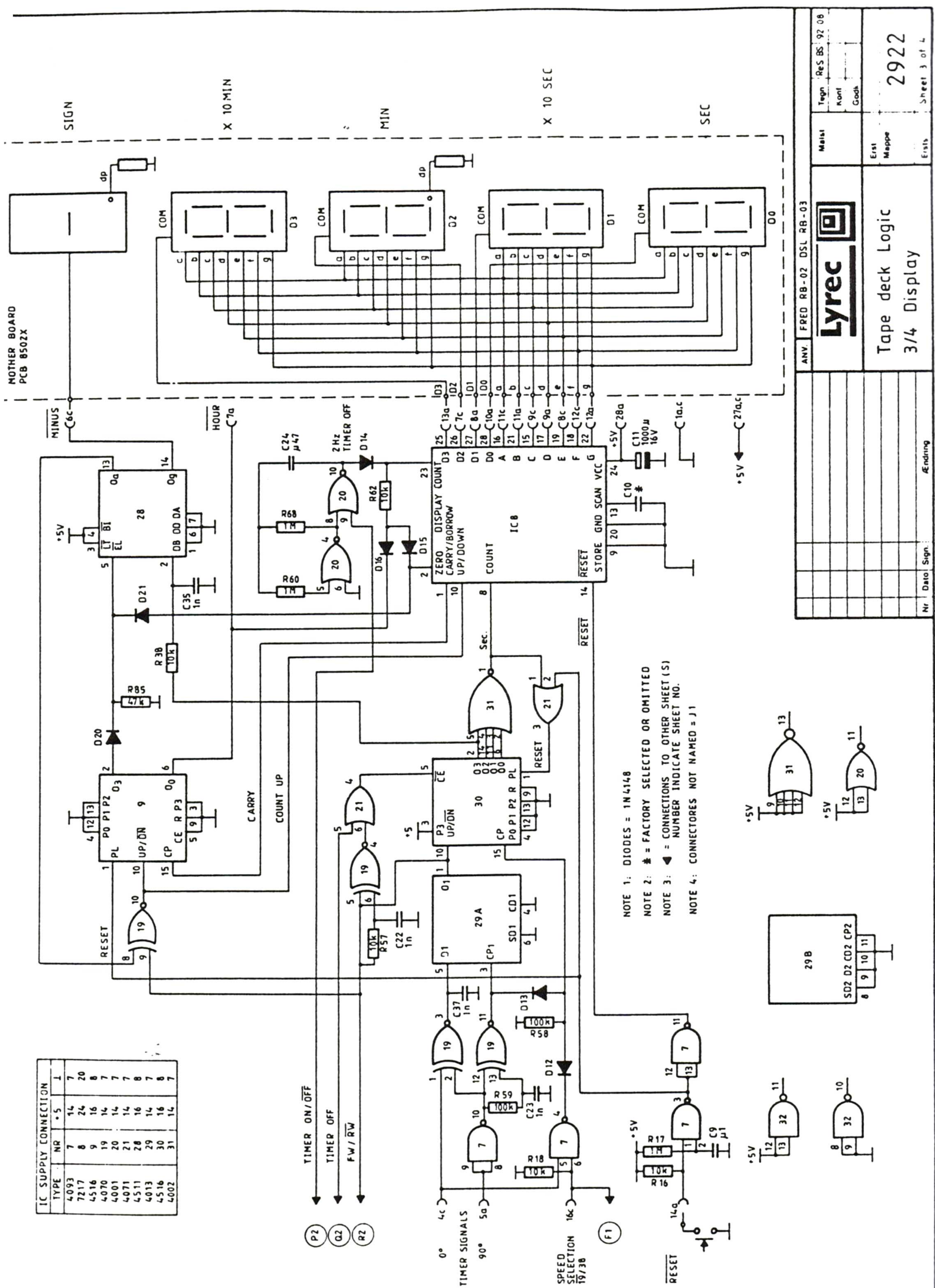








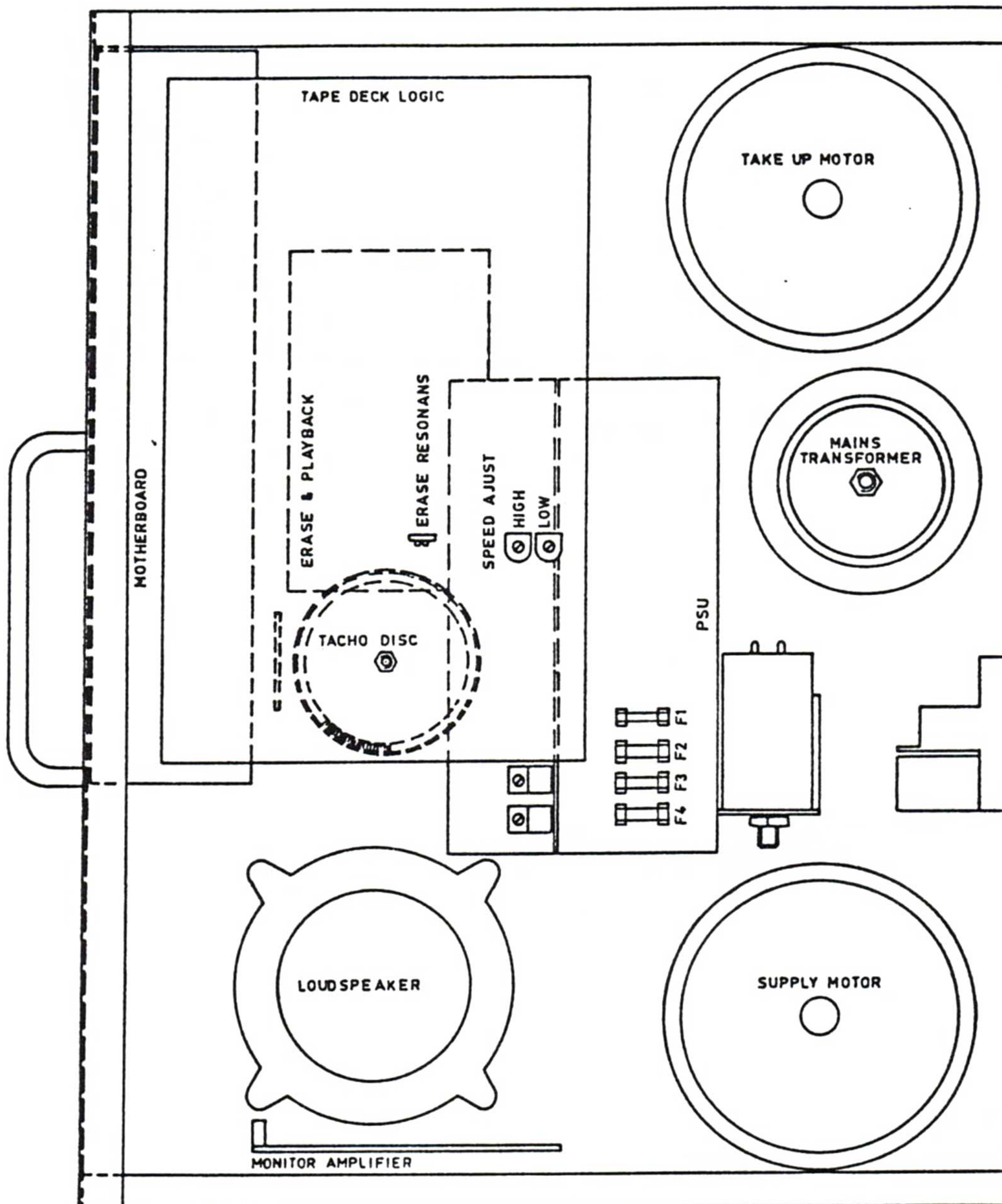
IC SUPPLY CONNECTION			
TYPE	NR	• 5	1
4093	7	14	7
7217	8	24	20
4516	9	16	8
4070	19	14	7
4001	20	14	7
4071	21	14	7
4511	28	16	8
4013	29	14	7
4516	30	16	8
4002	31	14	7






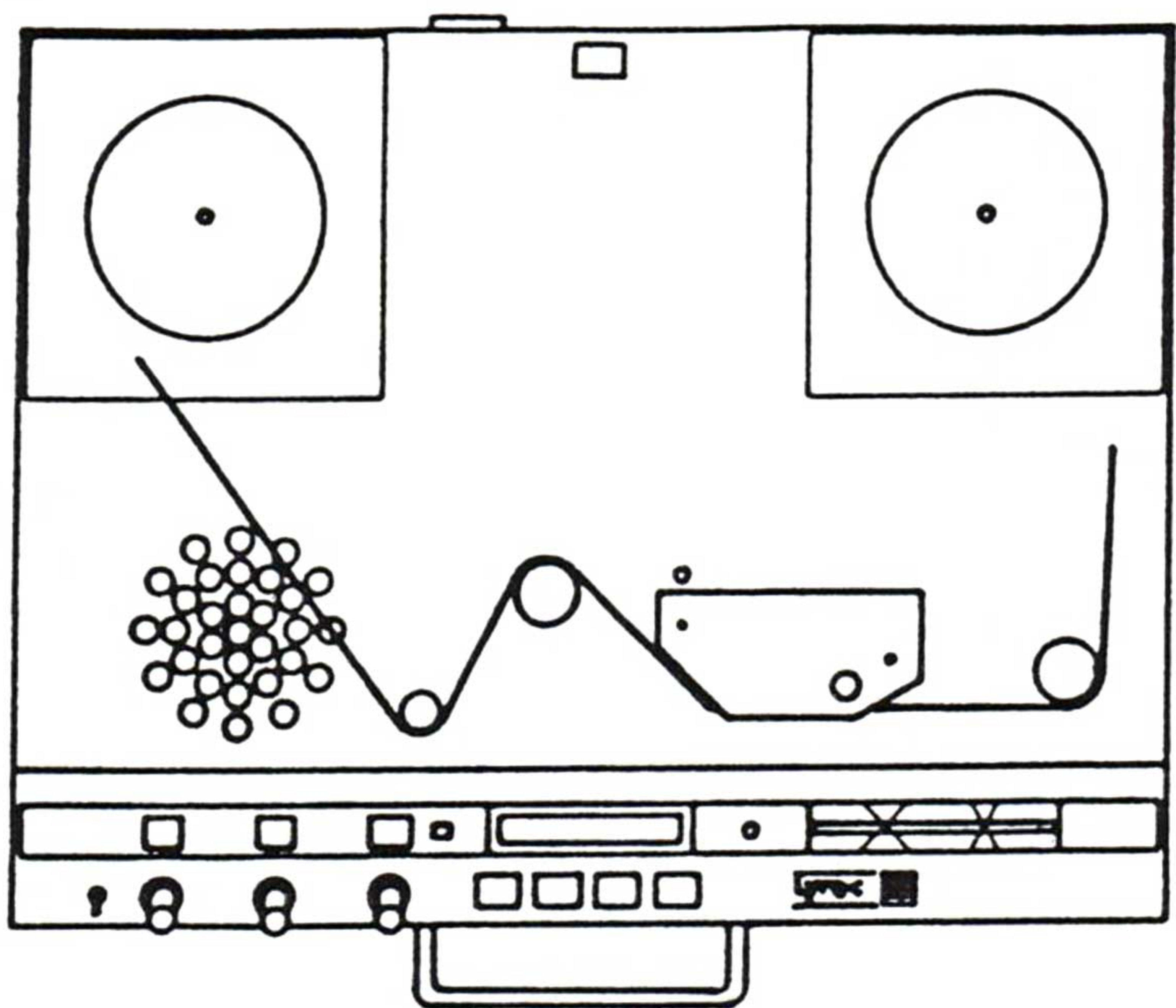







				ANY	FRED RB-02						
				<b>Lyrec</b> <small>LAURENT YVES RECHERCHES</small>				Model	Tago	JVS/JB	86.02 13
								1:2	Rev		
									Qual		
								Erst			
								Mappe	1658		
								Ersta			
Nr	Date	Sign	Ending								





			ANV. FRED RB - 02				
			<b>Lyrec</b> <small>OF DENMARK</small> 	Målst.	Tegn.	ReS/JB	850314
				1:5	Konf.		
					Godk.		
			Tape path	Erst.			
				Mappe	1675		
				Ersts			
Nr.	Dato	Sign.	Ændring				



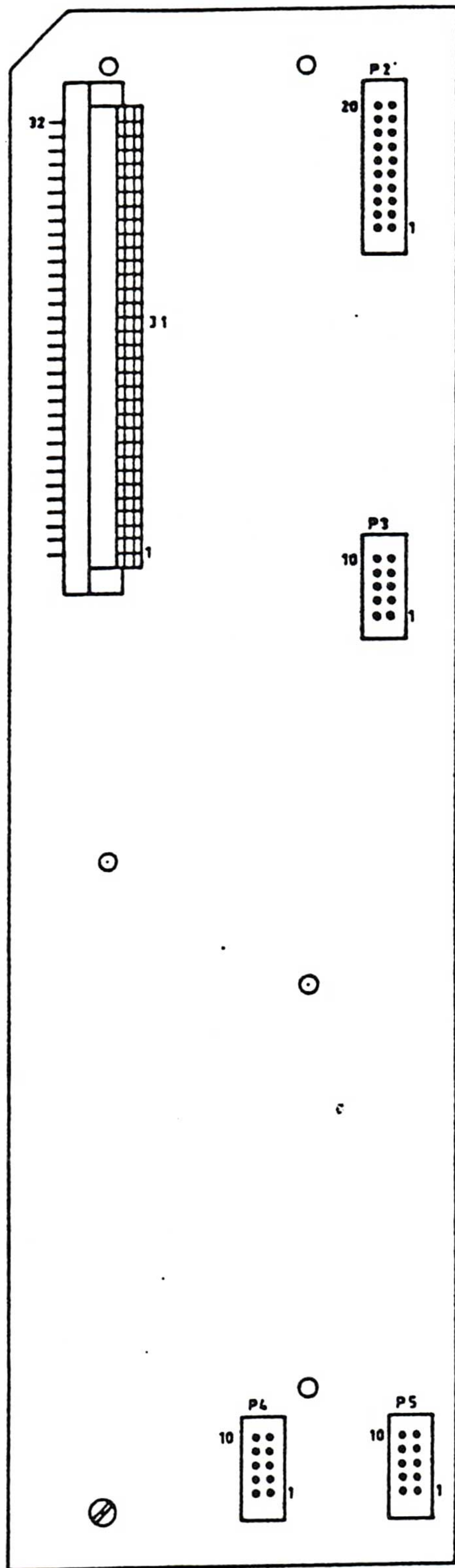
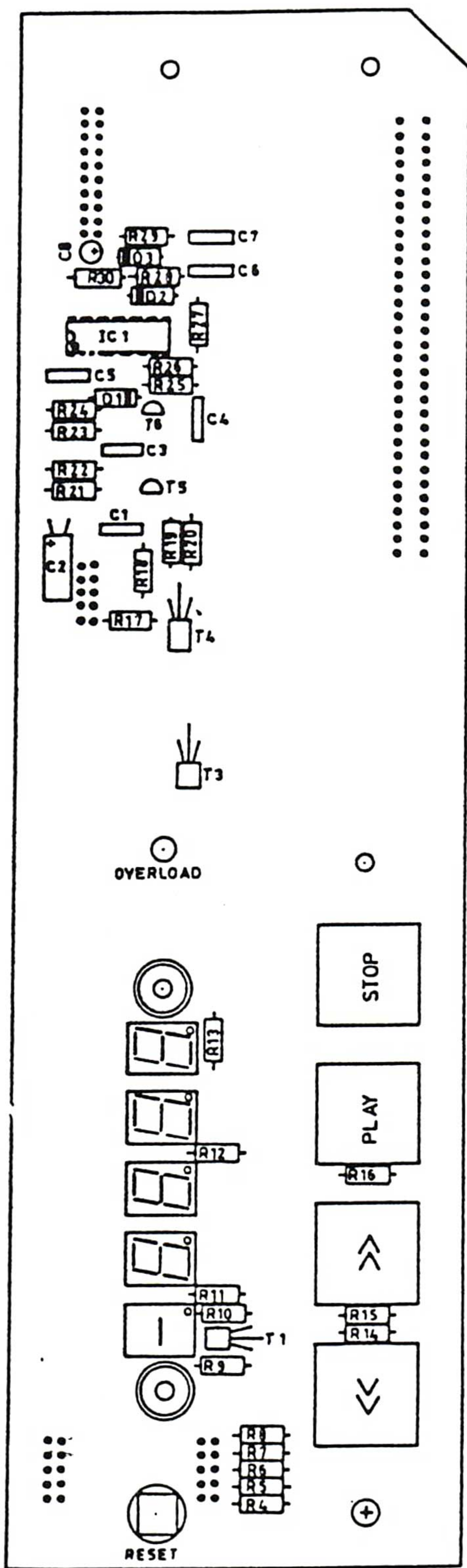



DIAGRAM SEE DRW 1669

				ANY	FRED RB-02	PCB 8502			
				<div>Lyrec</div> <div>W. LYRENSMA</div> <div></div>		Model	Yagn.	ReS/JB	860173
							Kard		
							Good		
				Motherboard		Erat.			
						Mappe	1676		
						Erate			
1 89 1 2 3 4 5 6 7 8 9 10 11 12									
1 2 3 4 5 6 7 8 9 10 11 12									
1 2 3 4 5 6 7 8 9 10 11 12									
1 2 3 4 5 6 7 8 9 10 11 12									
1 2 3 4 5 6 7 8 9 10 11 12									
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1 2 3 4 5 6 7 8 9 10 11 12									
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1 2 3 4 5 6 7 8 9 10 11 12									