Bang & Olufsen

Beocenter 7000

Type 1801

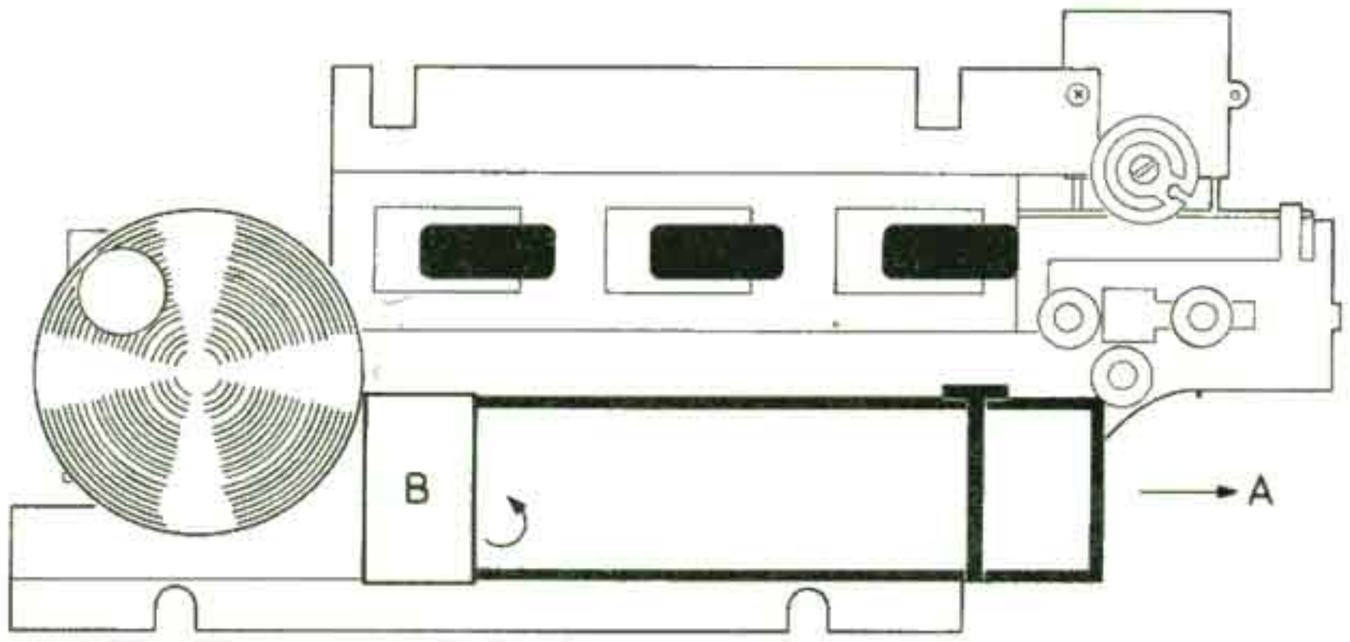
INFORMATION TECHNIQUE
DES PRODUITS

ERVICE APRES VENTE
pannes éventuelles)
lesure à effectuer sur un
mplificateur de sortie
éfectueux

S'il y a un défaut dans un amplificateur de sortie, et qu'il se produit un courant continu à la sortie du haut-parleur, le circuit du fault switch (interrupteur met l'appareil en position STAND-BY. Débrancher ensuite les haut-parleurs, mettre l'appareil en marche et effectuer les mesures, à moins qu'il s'agisse de court-circuits directs dans les amplificateurs de sorties.

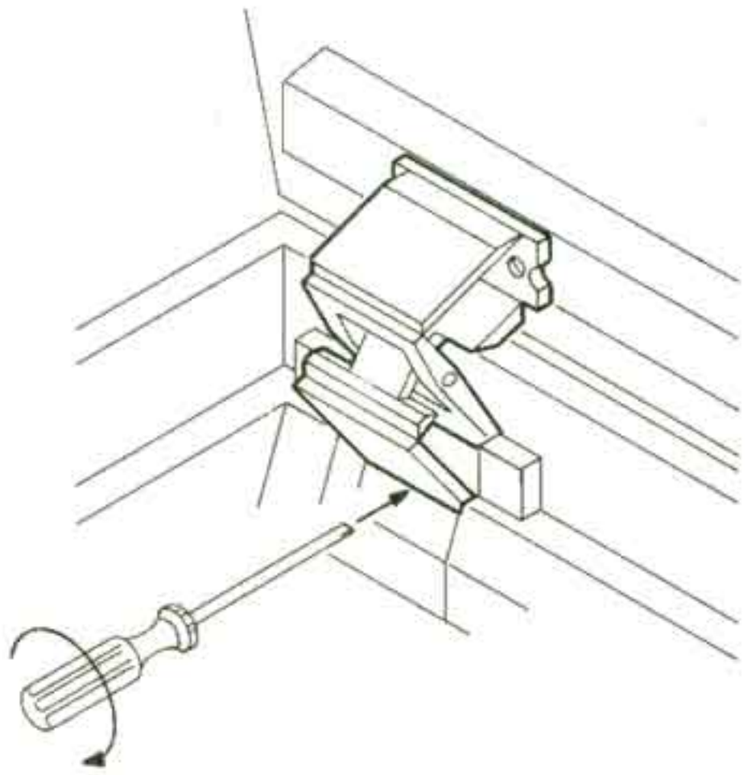
emplacement de la lampe
u cadran

Enlever l'ensemble AM. Pousser le boitier du cadran dans le sens de la flèche (A) Le capot (B) peut maintenant s'ouvrir et la lampe peut être remplacée.



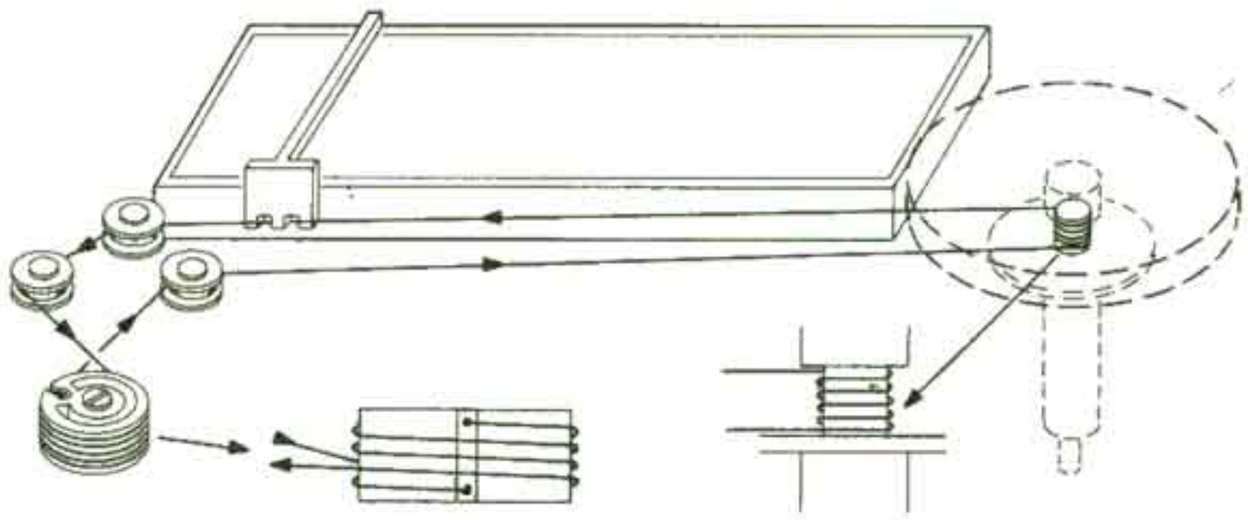
Après le remplacement de la lampe, il faut remettre le boitier à sa place d'origine.

Enlèvement des charnières



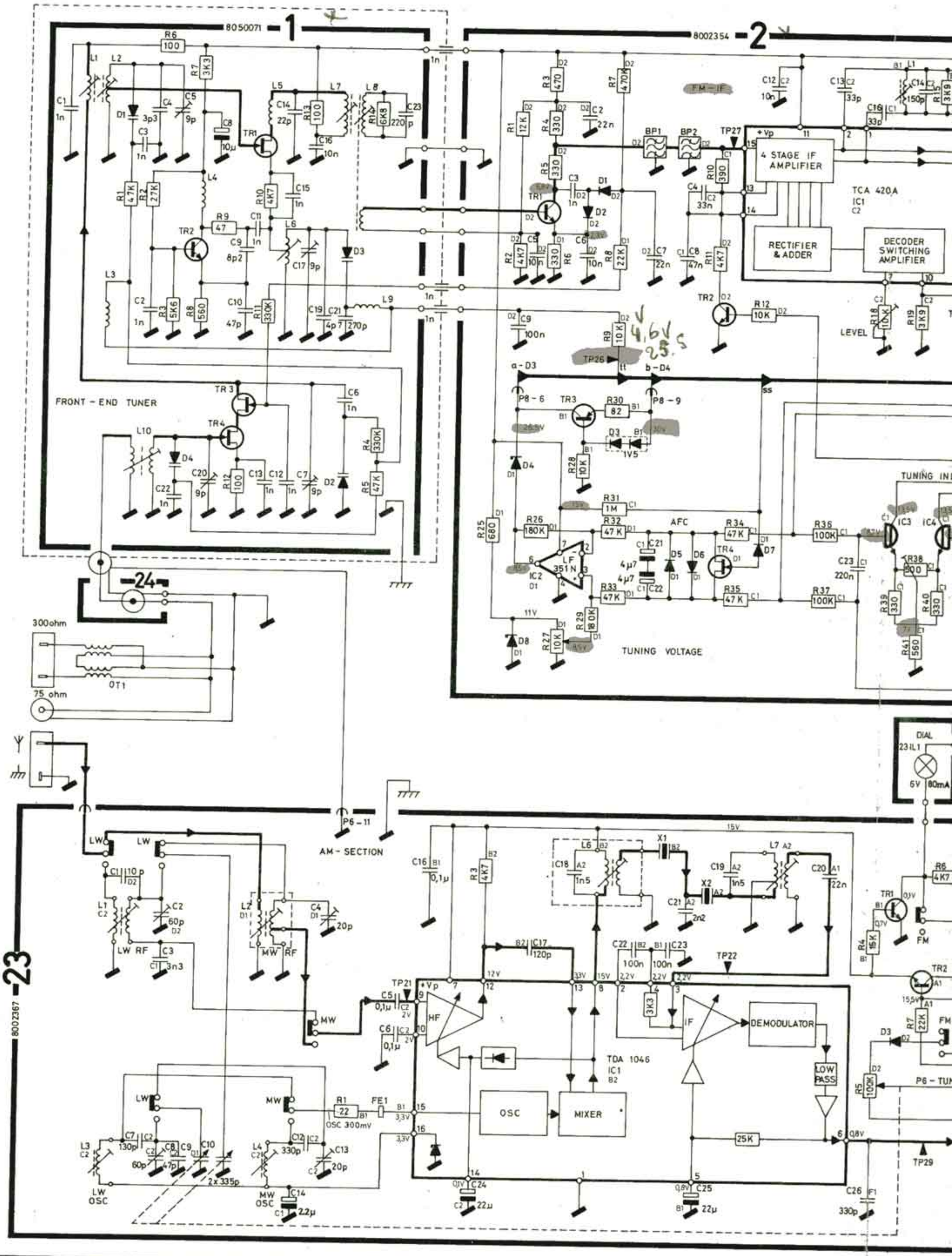
Si on désire enlever la partie de l'ensemble des commandes ou celle de la platine, les charnières peuvent être enlevées par une torsion sous la charnière à l'aide d'un tournevis à lame large et solide.

Entrainement de l'index



La cordelette de l'index (n° de référence 3955016) doit être coupée sur une longueur d'environ 65 cm.
Nouer les extrémités de telle manière qu'il y ait 60 cm entre chaque noeud.
Tourner le condensateur variable vers la droite, puis monter ensuite la cordelette comme il est indiqué sur le schéma

DIAGRAM 1


8050071 -1
8002354 -2
FRONT - END TUNER
TCA 420A
IC1
4 STAGE IF AMPLIFIER
RECTIFIER & ADDER
DECODER SWITCHING AMPLIFIER
TUNING VOLTAGE
TUNING IN
-24-
300ohm
75 ohm
OT1
AM - SECTION
P6 - 11
DIAL
23 IL1
6V 80mA
TDA 1046
IC1
OSC
MIXER
HF
IF
DEMODULATOR
LOW PASS
AFC
LW
MW
LW OSC
MW OSC
8002367 -23-

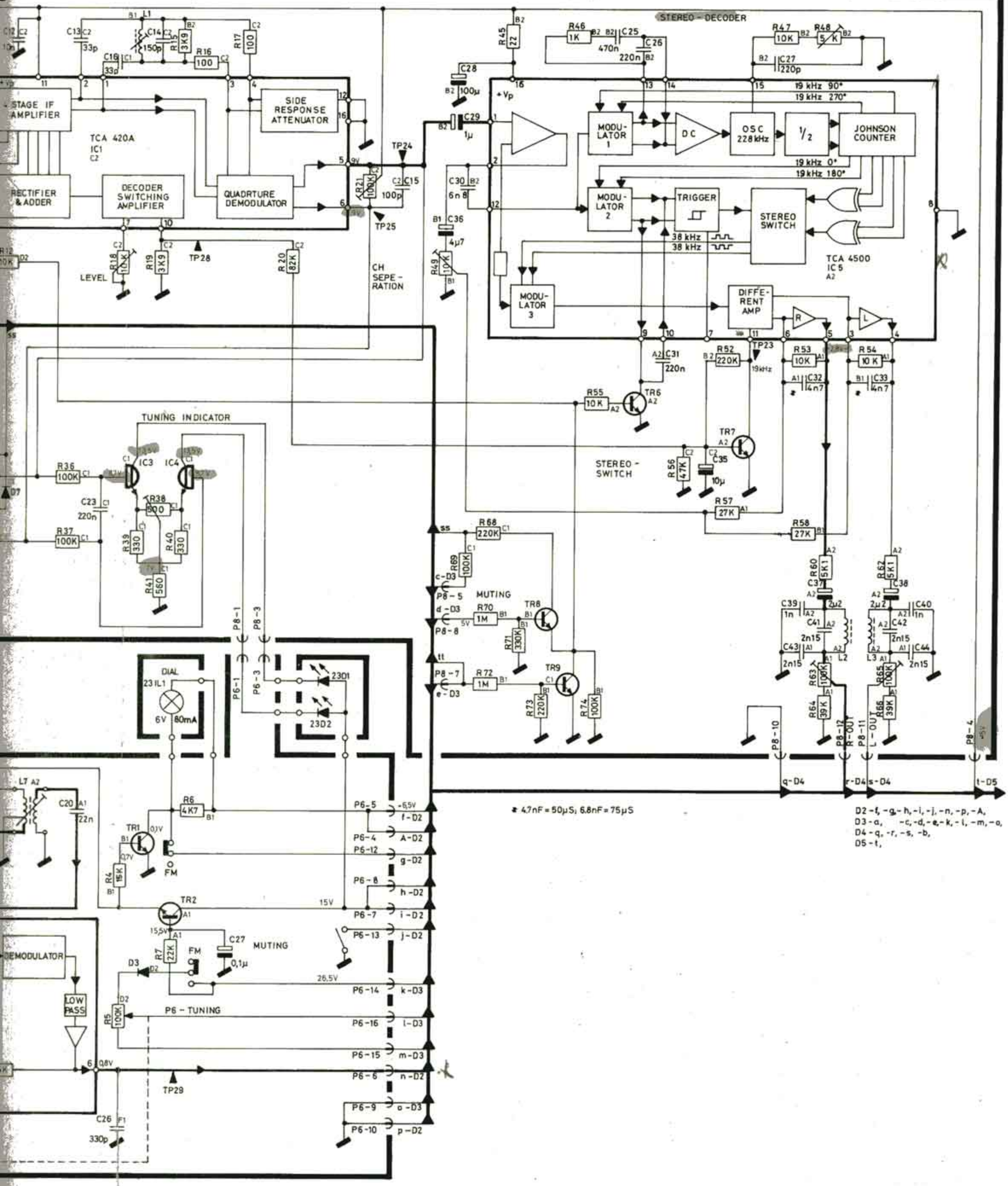

STEREO - DECODER
TCA 420A
IC1
C2
SIDE RESPONSE ATTENUATOR
DECODER SWITCHING AMPLIFIER
QUADRTURE DEMODULATOR
RECTIFIER & ADDER
TP24
TP25
TP28
TP23
CH SEPE - RATION
LEVEL
MODU- LATOR 1
MODU- LATOR 2
MODU- LATOR 3
OSC 228kHz
1/2
JOHNSON COUNTER
TRIGGER
STEREO SWITCH
DIFFE- RENT AMP
TCA 4500
IC 5
A2
19 kHz 90°
19 kHz 270°
19 kHz 0°
19 kHz 180°
38 kHz
38 kHz
19kHz
MUTING
TUNING INDICATOR
DIAL
6V 80mA
23D1
23D2
STEREO - SWITCH
FM
MUTING
P6 - TUNING
LOW PASS
DEMODULATOR
L - OUT
R - OUT
* 4,7nF = 50µS, 6,8nF = 75µS
D2 - f, - g, - h, - i, - j, - n, - p, - A,
D3 - a, - c, - d, - e, - k, - l, - m, - o,
D4 - q, - r, - s, - b,
D5 - t,

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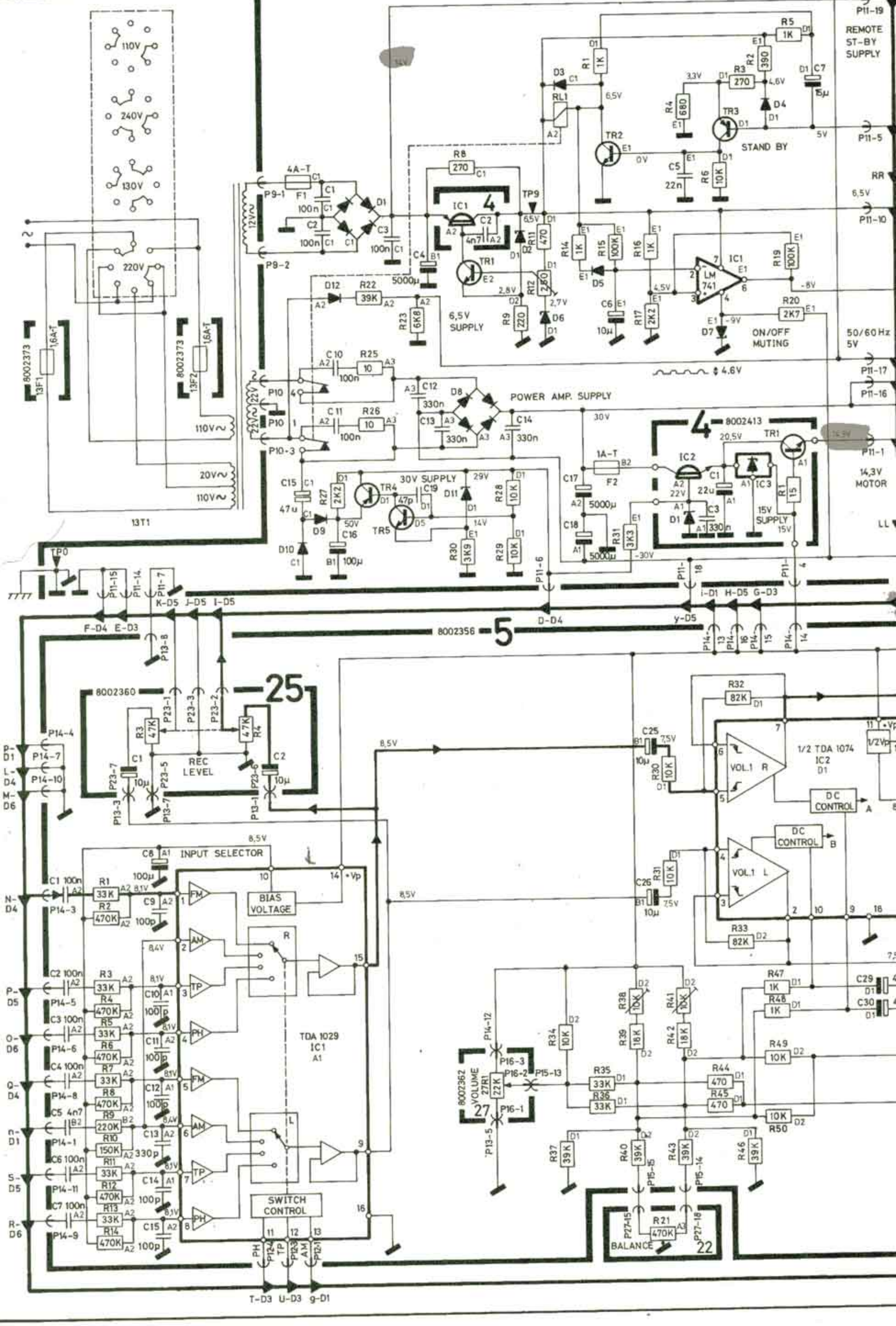
DIAGRAM 2



3

REMOTE ST-BY SUPPLY

FAULT SWITCH

RIGHT CHANNEL OUTPUT AMP.

LEFT CHANNEL OUTPUT AMPLIFIER

3R100-3R135 3TR100-3TR112
3C100-3C113 3IC100-3IC101
3L100 3D100-3D104

MUTING

IN

OUT

SECURITY CIRCUIT

HEADPHONES

50/60Hz 5V

14,3V MOTOR

TDA 1074 IC3 C2

1/2 TDA 1074 IC2 D1

LOUDNESS

REMOTE VOLUME

TREBLE

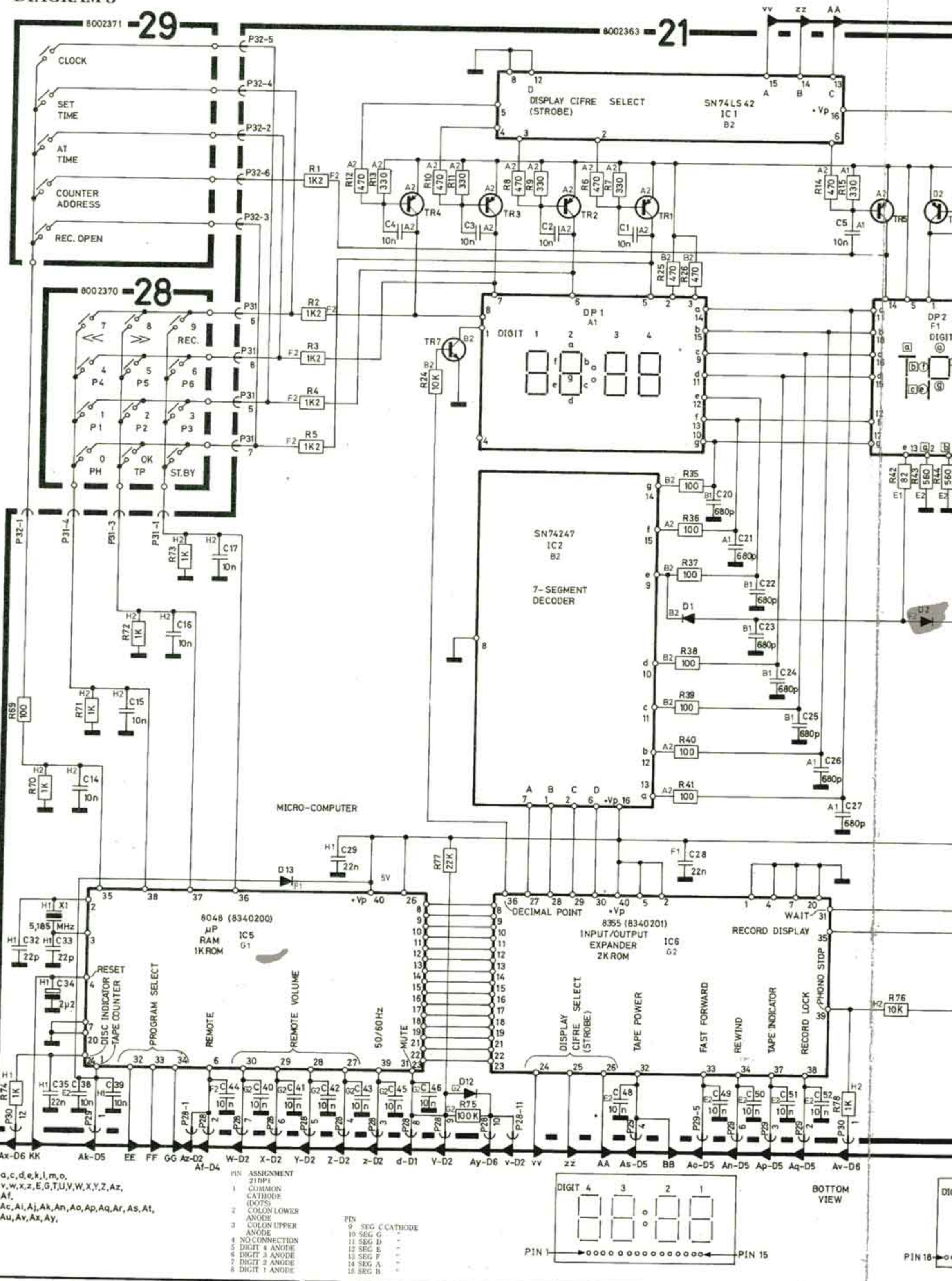
BASS

8002361

D1- f,g,h,i,j,n,Ap,
D3- v,w,x,z,E,G,T,U,V,W,X,Y,Z,Az,
D4- u,C,D,F,L,N,Q,Ae,
D5- y,B,H,I,J,K,P,S,
D6- M,Q,R,Ab,

V-D3 j-D1 W-D3 X-D3 Y-D3 Z-D3 w-D3 Ab-D6 f-D1

DIAGRAM 3


8002371 -29-
CLOCK
SET TIME
AT TIME
COUNTER ADDRESS
REC. OPEN
8002370 -28-
REC.
P4 P5 P6
P1 P2 P3
PH TP ST.BY
8002363 -21-
DISPLAY CIFRE SELECT (STROBE)
SN74LS42 IC1 B2
DP1 A1
DIGIT 1 2 3 4
DP2 F1
SN74247 IC2 B2
7-SEGMENT DECODER
MICRO-COMPUTER
8048 (8340200) µP RAM 1K ROM IC5 G1
8355 (8340201) INPUT/OUTPUT EXPANDER 2K ROM IC6 G2
DECIMAL POINT
RECORD DISPLAY
WAIT
PROGRAM SELECT
REMOTE
REMOTE VOLUME
50/60 Hz
MUTE
DISPLAY CIFRE SELECT (STROBE)
TAPE POWER
FAST FORWARD
REWIND
TAPE INDICATOR
RECORD LOCK
PHONO STOP
DISC INDICATOR
TAPE COUNTER
RESET
5,185 MHz
D1 - a,c,d,e,k,l,m,o,
D2 - v,w,x,z,E,G,T,U,V,W,X,Y,Z,Az,
D4 - Af,
D5 - Ac,Ai,Aj,Ak,An,Ao,Ap,Aq,Ar,As,At,
D6 - Au,Av,Ax,Ay,
PIN ASSIGNMENT 21DP1
1 COMMON CATHODE (DOTS)
2 COLON LOWER ANODE
3 COLON UPPER ANODE
4 NO CONNECTION
5 DIGIT 4 ANODE
6 DIGIT 3 ANODE
7 DIGIT 2 ANODE
8 DIGIT 1 ANODE
PIN
9 SEG C CATHODE
10 SEG G "
11 SEG D "
12 SEG E "
13 SEG F "
14 SEG A "
15 SEG B "
DIGIT 4 3 2 1
PIN 1
PIN 15
PIN 16
BOTTOM VIEW

Bang & Olufsen

8002365 22

BB CC Ac-D5 KK

5V SUPPLY

TR10 TR11 TR14

RESET

RED

P29-13 P29 12 P29-11

At-D5 w-D2 x-D2

6,5V

SN16680 IC4 C2

P29-14 E-D2

P29-10 G-D2

P29-8 Ai-D5

P29-9 Aj-D5

15V

TAPE VU-METER

DP2 F1 DIGIT 5

IC3

TR12 TR13

IL1 WAIT 6V-80mA

IL2 IL3 2x6V-80mA

RECORD DISPLAY

TR5 TR6

D0 k-D1 m-D1 l-D1

P27-10 P27-9 P27-11

FM PRESET

P27-12 o-D1

P27-6 a-D1

AFC

P27-17 c-D1

P27-8 e-D1

26,5V

TUNING VOLTAGE

TR1 TR2 TR3 TR4 TR5 TR6

P6 P2 P3 P4 P5 P1

P27-1 P27-5 P27-4 P27-3 P27-2 P27-7

R76 10K 5V

SN7445 IC7 H1

PROGRAM SELECT

PHONO TAPE

AV-D6 EE FF GG Au-D6 T-D2 DD U-D2 Ar-D5 CC

BOTTOM VIEW

DIGIT 5

PIN 18 ... PIN 1

PIN	ASSIGNMENT 21 DP2	
1	COMMON ANODE	DIGIT T
2	SEG A CATHODE	"
3	SEG B CATHODE	"
4	SEG C CATHODE	"
5	COMMON ANODE	DIGIT P
6	SEG E CATHODE	"
7	SEG F CATHODE	"
8	SEG A CATHODE	"
9	SEG G CATHODE	"
10	SEG B CATHODE	"
11	SEG A CATHODE	DIGIT 5
12	SEG F CATHODE	DIGIT 5
13	SEG E CATHODE	"
14	COMMON ANODE	"
15	SEG D CATHODE	"
16	SEG C CATHODE	"
17	SEG G CATHODE	"
18	SEG B CATHODE	"

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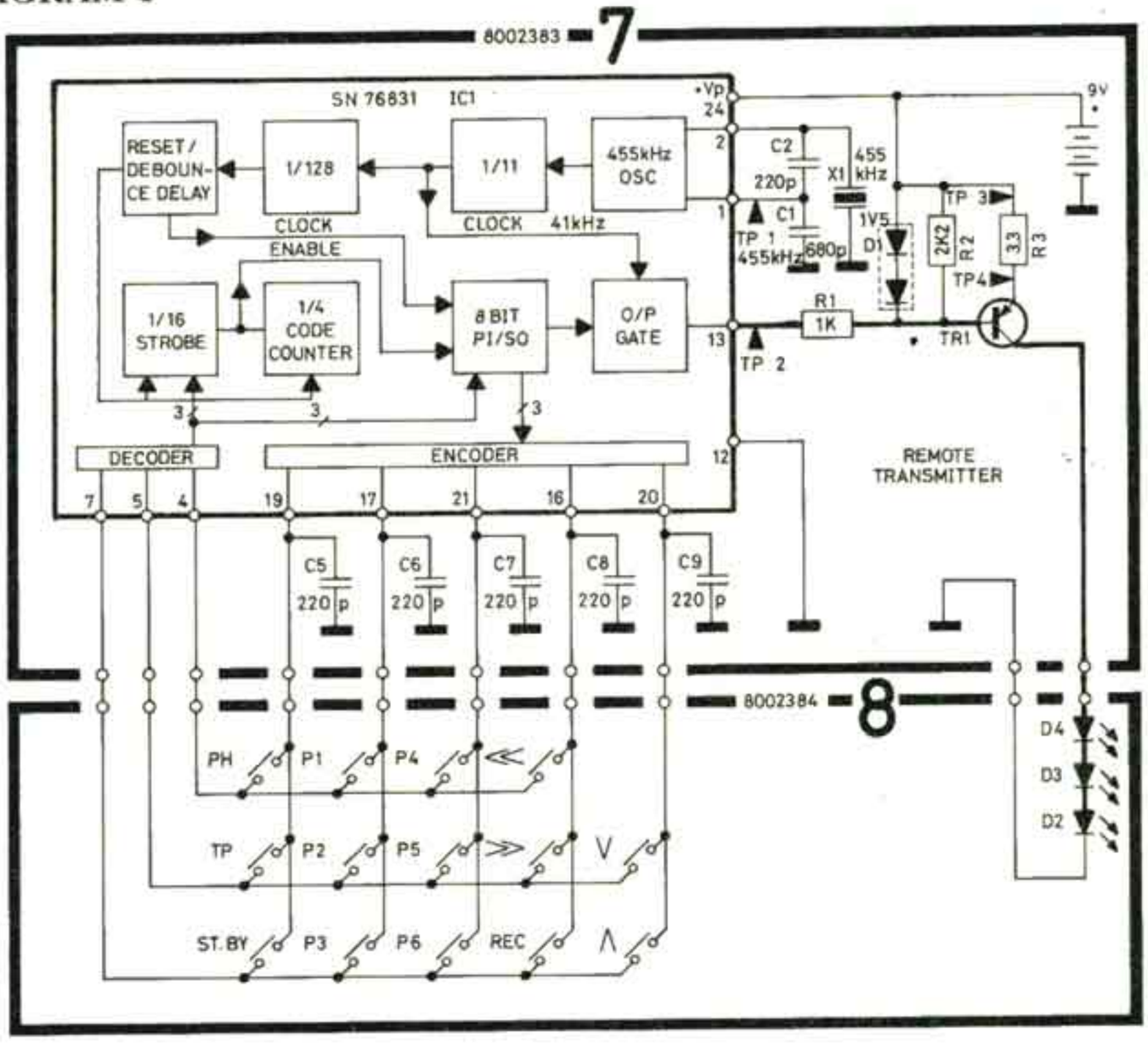
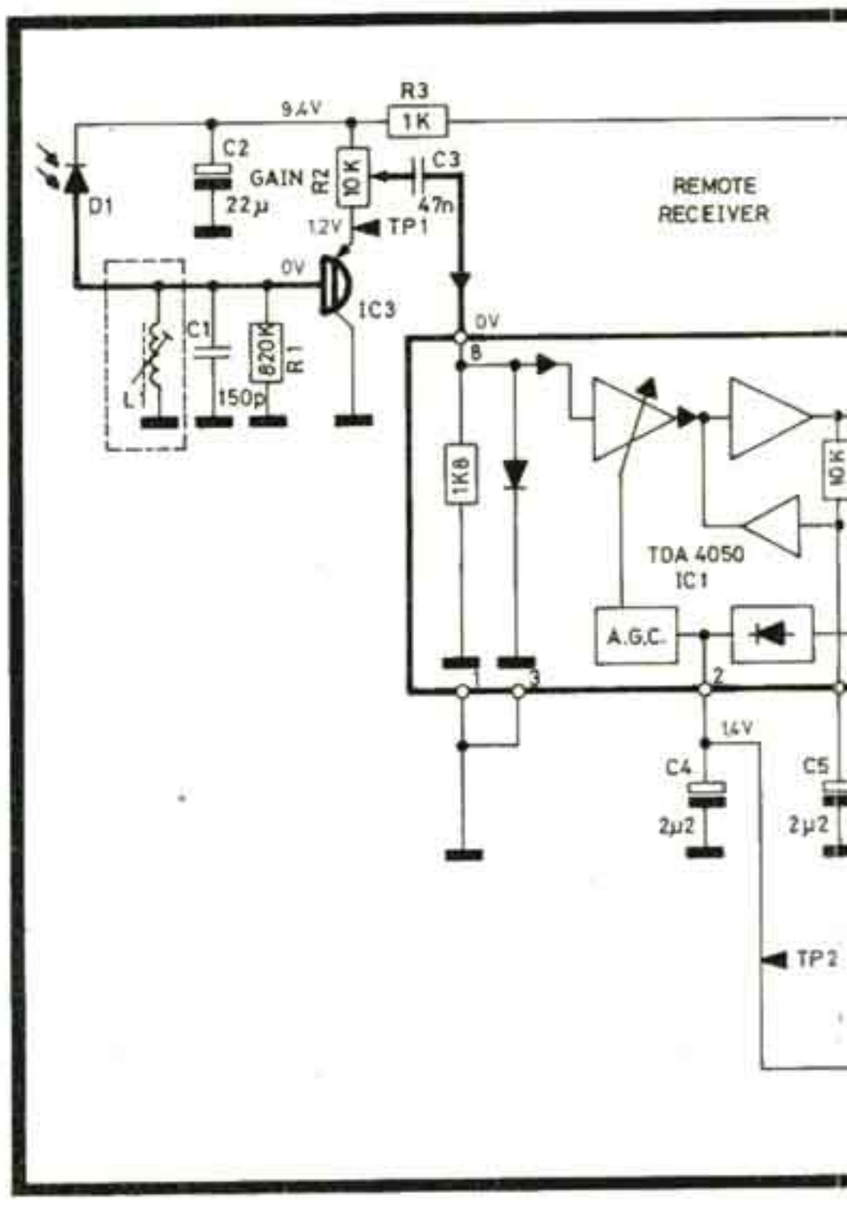
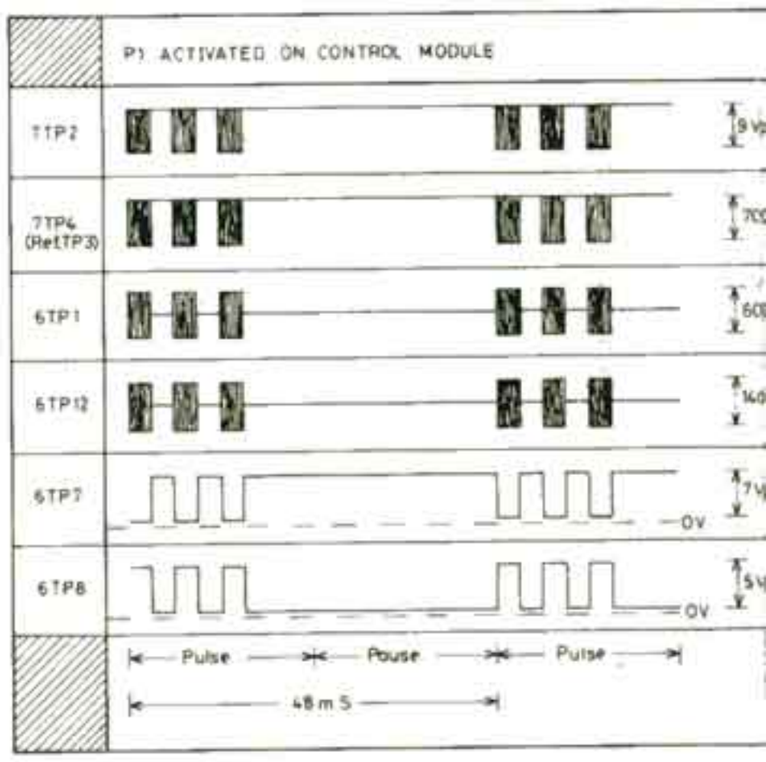
DIAGRAM 4





CONTROL MODULE FUNCTION	PINS SHORTED ON 7IC1									OUTPUT CODE FROM 7IC1 START							
	4	5	7		16	17	19	20	21								
V		X						X		1	1	0	1	0	1	0	0
Λ			X					X		1	1	0	1	0	0	1	0
≪	X				X					1	1	0	0	1	0	0	0
≫		X			X					1	1	0	0	0	1	0	0
REC.			X		X					1	1	0	0	0	0	1	0
P4	X								X	1	0	1	1	1	0	0	0
P5		X							X	1	0	1	1	0	1	0	0
P6			X						X	1	0	1	1	0	0	1	0
P1	X					X				1	0	1	0	1	0	0	0
P2		X				X				1	0	1	0	0	1	0	0
P3			X			X				1	0	1	0	0	0	1	0
PH	X						X			1	0	0	1	1	0	0	0
TP		X					X			1	0	0	1	0	1	0	0
ST-BY			X				X			1	0	0	1	0	0	1	0



FUNCTION TABLE FOR DIAGRAM 3

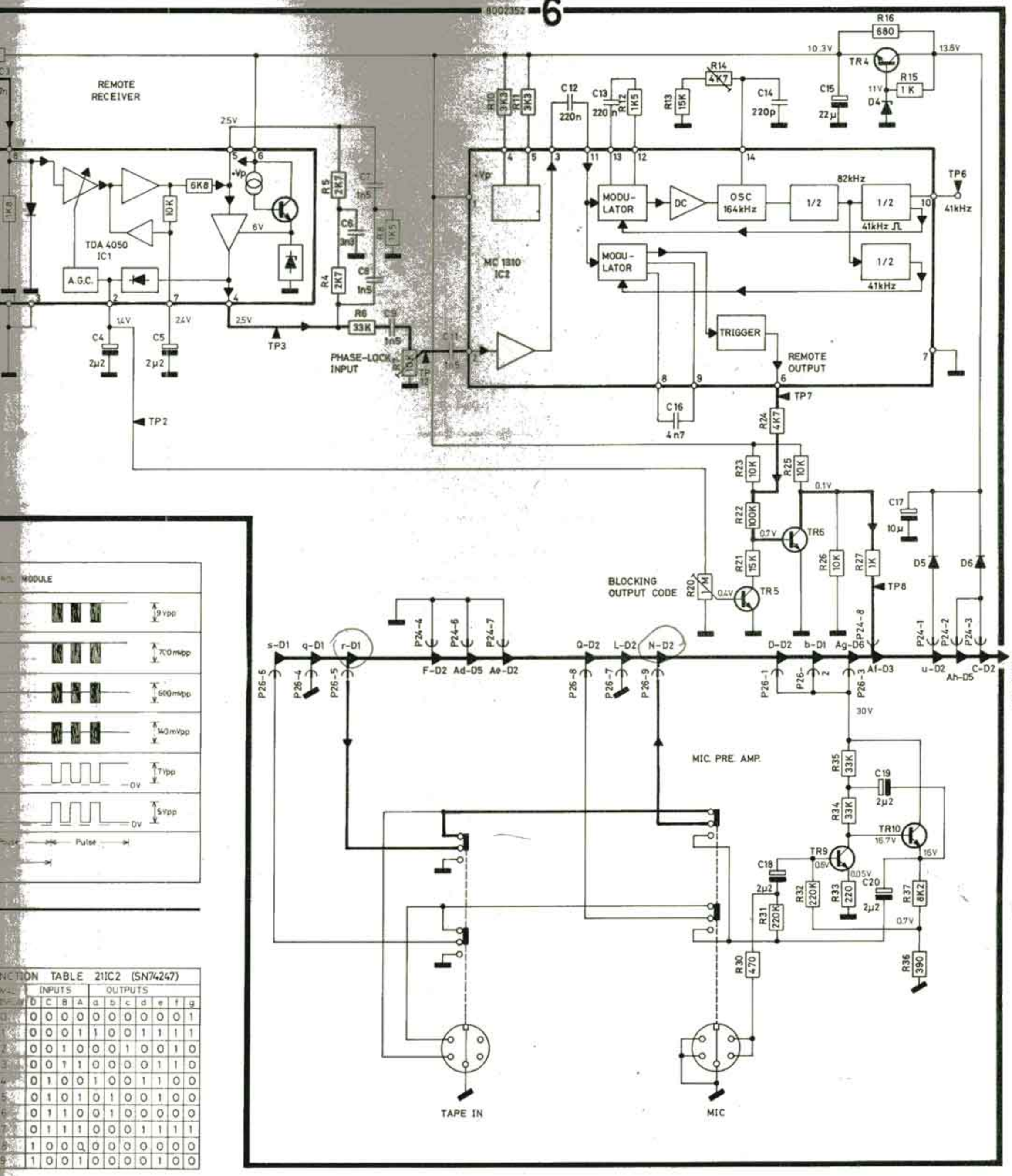
FUNCTION TABLE MICRO-COMPUTER																				
	CONDITIONS			FUNCTION	RESULTS															
					21IC5									21IC6						
PIN	24	37	38		27	28	29	30		31		32	33	34		32	33	34		35		39
	0			PHONO						1		0	0	0		1	1	1		1		0
				P1						1		1	0	0		1	1	1		1		1
				P2						1		0	1	0		1	1	1		1		1
				P3						1		1	1	0		1	1	1		1		1
				P4						1		0	0	1		1	1	1		1		1
				P5						1		1	0	1		1	1	1		1		1
				P6						1		0	1	1		1	1	1		1		1
		1		TAPE						1		1	1	1		0	0	0		1		1
				STAND BY						0		1	1	1		1	1	1		1		1
			1	REC. OPEN																		
		1		COUNTER ADDR.												0	1	1				
				P1-REC. PAUSE						1		1	0	0		0	1	1		1/0		1
				P1-REC.						1		1	0	0		0	0	0		0		1
		1		≫												0	0	1		1		
		1		≪												0	1	0		1		
				MIN. VOL. (Remote)	0	0	0	0														
				MAX. VOL. (Remote)	1	1	1	1														

FUNCTION TABLE 21IC7 (SN 7445)											
FUNCTION	INPUTS				OUTPUT AT PINS						
	D	C	B	A	1	2	3	4	5	6	7	9
PHONO	0	0	0	0	0	1	1	1	1	1	1	1
P1	0	0	0	1	1	0	1	1	1	1	1	1
P2	0	0	1	0	1	1	0	1	1	1	1	1
P3	0	0	1	1	1	1	1	0	1	1	1	1
P4	0	1	0	0	1	1	1	1	0	1	1	1
P5	0	1	0	1	1	1	1	1	1	0	1	1
P6	0	1	1	0	1	1	1	1	1	1	0	1
TAPE	0	1	1	1	1	1	1	1	1	1	1	0
ST-BY	0	1	1	1	1	1	1	1	1	1	1	0

FUNCTION TABLE 21IC1 (SN74LS42)									
INPUTS				OUTPUT AT PINS					
D	C	B	A	2	3	4	5	6	
0	0	0	1	0	1	1	1	1	
0	0	1	0	1	0	1	1	1	
0	0	1	1	1	1	0	1	1	
0	1	0	0	1	1	1	0	1	
0	1	0	1	1	1	1	1	0	

FUNCTION TABLE 21IC2 (SN742									
DECIMAL ON DISPLAY	INPUTS				OUTPUTS				
	D	C	B	A	a	b	c	d	e
0	0	0	0	0	0	0	0	0	0
1	0	0	0	1	1	0	0	1	1
2	0	0	1	0	0	0	1	0	0
3	0	0	1	1	0	0	0	0	1
4	0	1	0	0	1	0	0	1	1
5	0	1	0	1	0	1	0	0	1
6	0	1	1	0	0	1	0	0	0
7	0	1	1	1	0	0	0	1	1
8	1	0	0	0	0	0	0	0	0
9	1	0	0	1	0	0	0	0	1

8002352 **6**

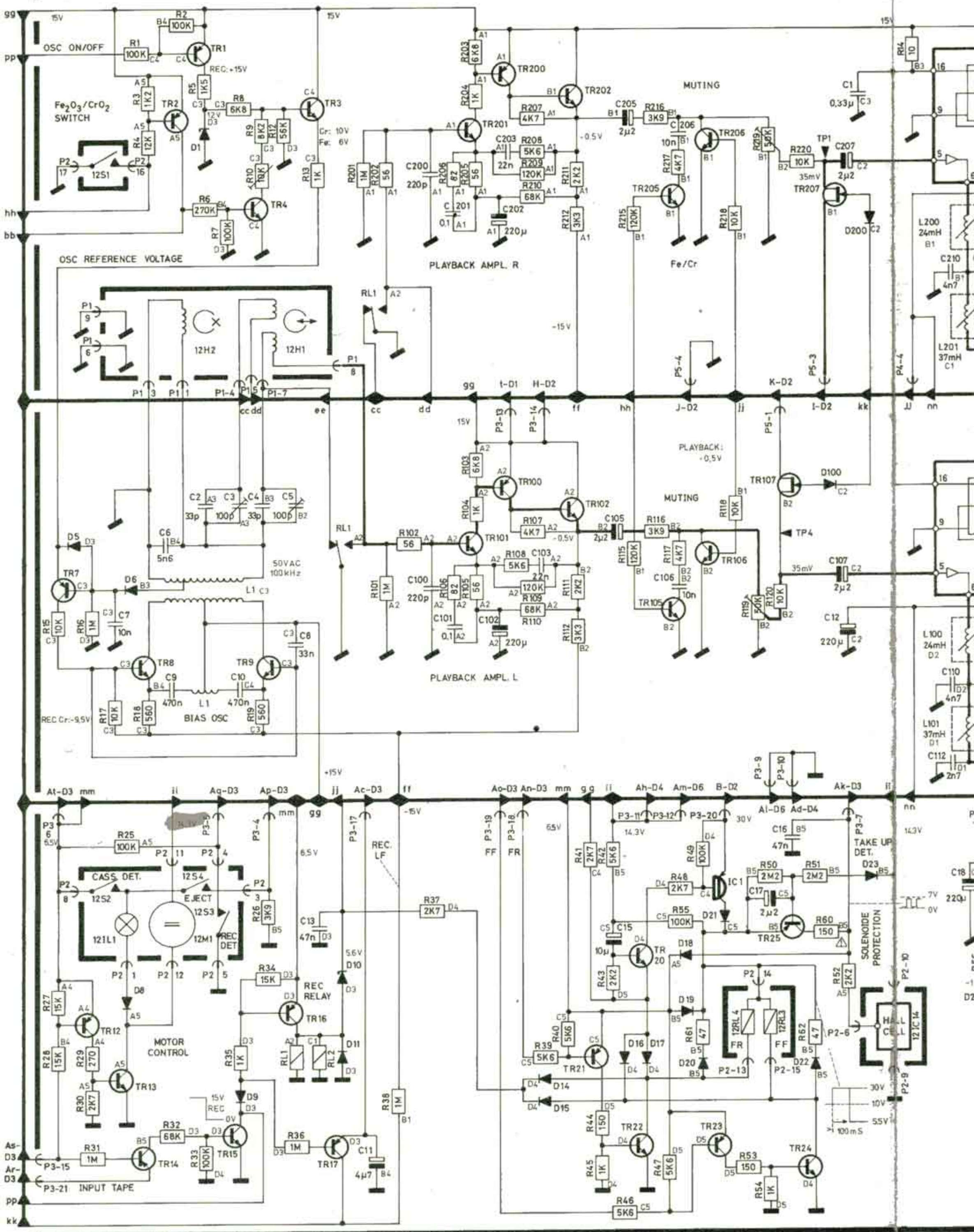


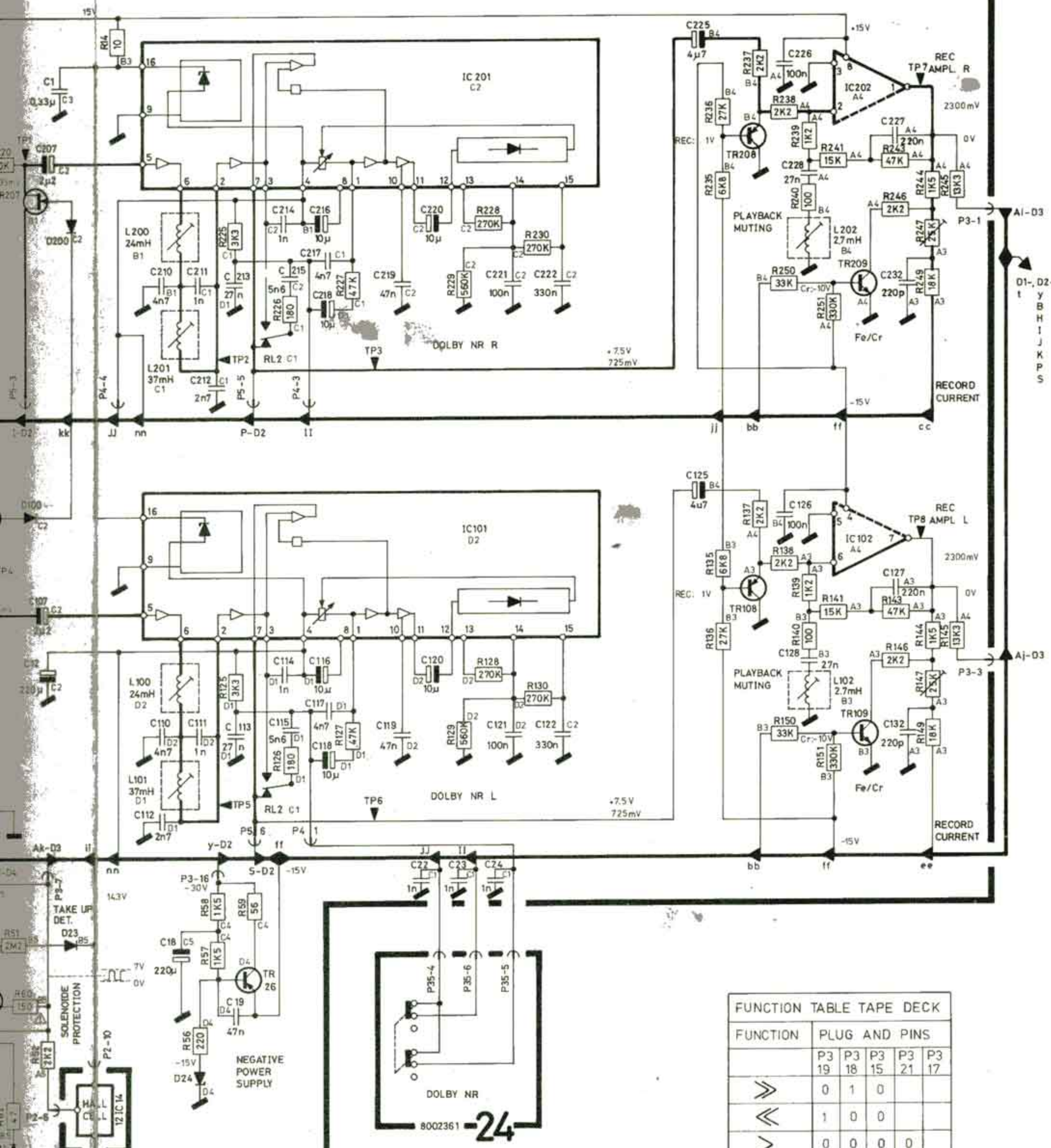
MODULE

FUNCTION TABLE 21IC2 (SN74247)

	INPUTS				OUTPUTS						
	D	C	B	A	a	b	c	d	e	f	g
0	0	0	0	0	0	0	0	0	0	0	1
1	0	0	0	1	1	0	0	1	1	1	1
2	0	0	1	0	0	0	1	0	0	1	0
3	0	0	1	1	0	0	0	0	1	1	0
4	0	1	0	0	1	0	0	1	1	0	0
5	0	1	0	1	0	1	0	0	1	0	0
6	0	1	1	0	0	1	0	0	0	0	0
7	0	1	1	1	0	0	0	1	1	1	1
8	1	0	0	0	0	0	0	0	0	0	0
9	1	0	0	1	0	0	0	0	1	0	0

DIAGRAM 5


OSC ON/OFF
Fe2O3/CrO2 SWITCH
12S1
OSC REFERENCE VOLTAGE
12H2
12H1
RL1
PLAYBACK AMPL. R
PLAYBACK AMPL. L
MUTING
Fe/Cr
BIAS OSC
MOTOR CONTROL
REC RELAY
TAKE UP DET.
SOLENOIDE PROTECTION
L200 24mH
L201 37mH
L100 24mH
L101 37mH
TR100
TR101
TR102
TR200
TR201
TR202
TR205
TR206
TR207
TR105
TR106
TR107
TR1
TR2
TR3
TR4
TR7
TR8
TR9
TR12
TR13
TR14
TR15
TR16
TR17
TR21
TR22
TR23
TR24
TR25
IC1
D200
D100
15V
-15V
-0.5V
+15V
6.5V
14.3V
30V
7V
0V
5.5V
35mV
REC Cr:-9.5V
50VAC 100kHz



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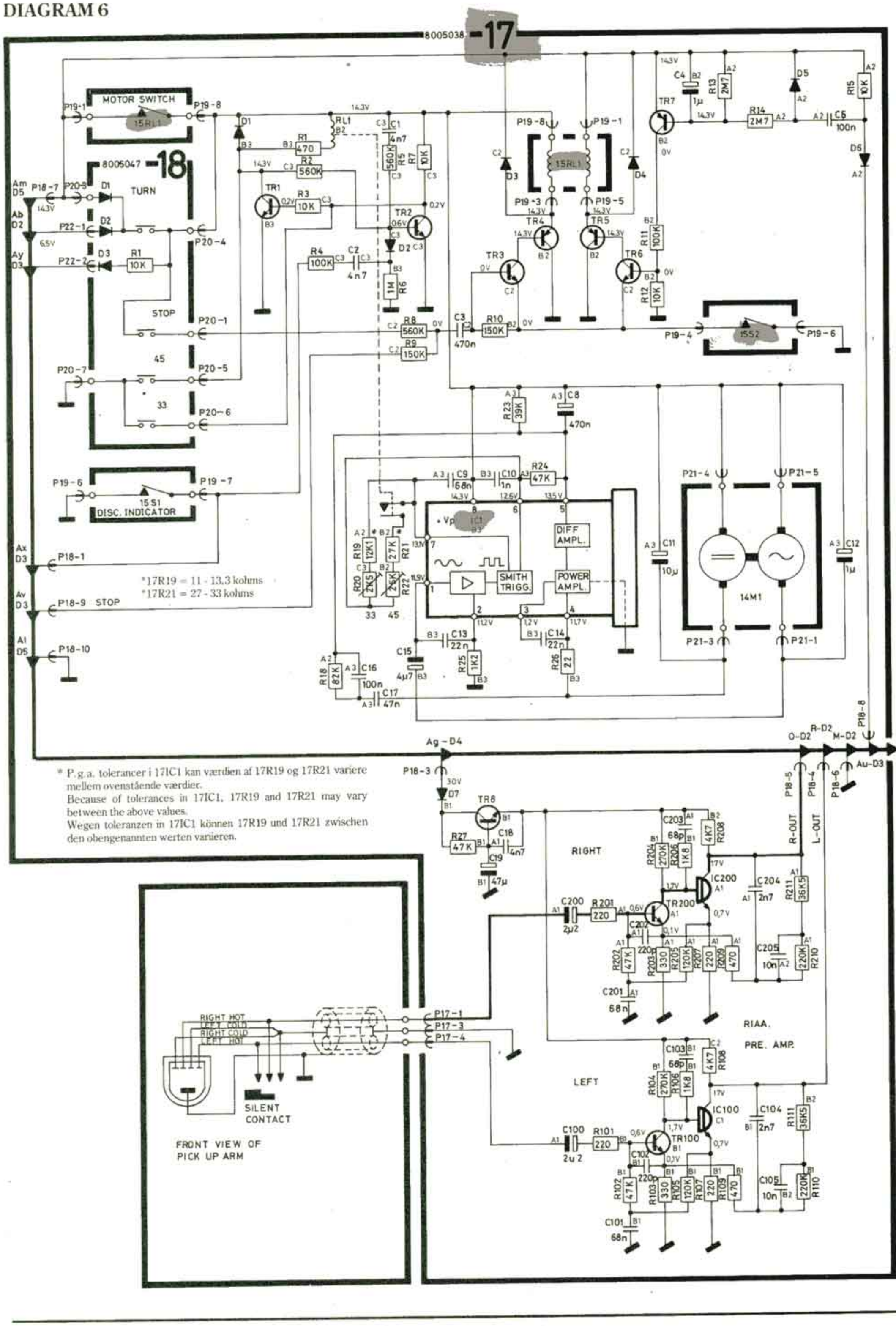
FUNCTION TABLE TAPE DECK					
FUNCTION	PLUG AND PINS				
	P3 19	P3 18	P3 15	P3 21	P3 17
≫	0	1	0		
≪	1	0	0		
>	0	0	0	0	
REC ⊜	1	1	0	1	
REC	0	0	0	1	1
STOP	1	1	1		
REC WAIT	0	0	0	1	0

DIAGRAM 6



* P.g.a. tolerancer i 17IC1 kan værdien af 17R19 og 17R21 variere mellem ovenstående værdier.
Because of tolerances in 17IC1, 17R19 and 17R21 may vary between the above values.
Wegen toleranzen in 17IC1 können 17R19 und 17R21 zwischen den obengenannten werten variieren.