Bang & Olufsen

Beocenter 7000

Type 1801

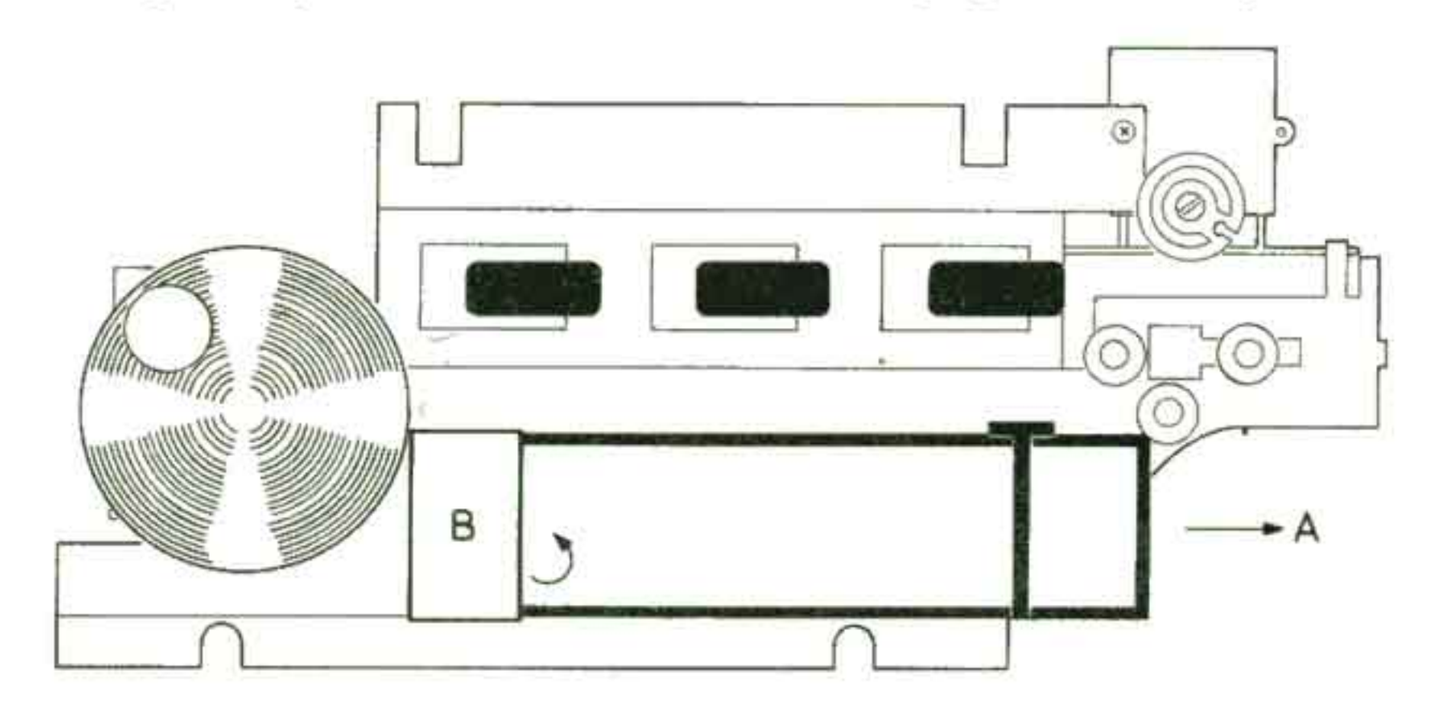
INFORMATION TECHNIQUE
DES PRODUITS

ERVICE APRES VENTE
annes 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.

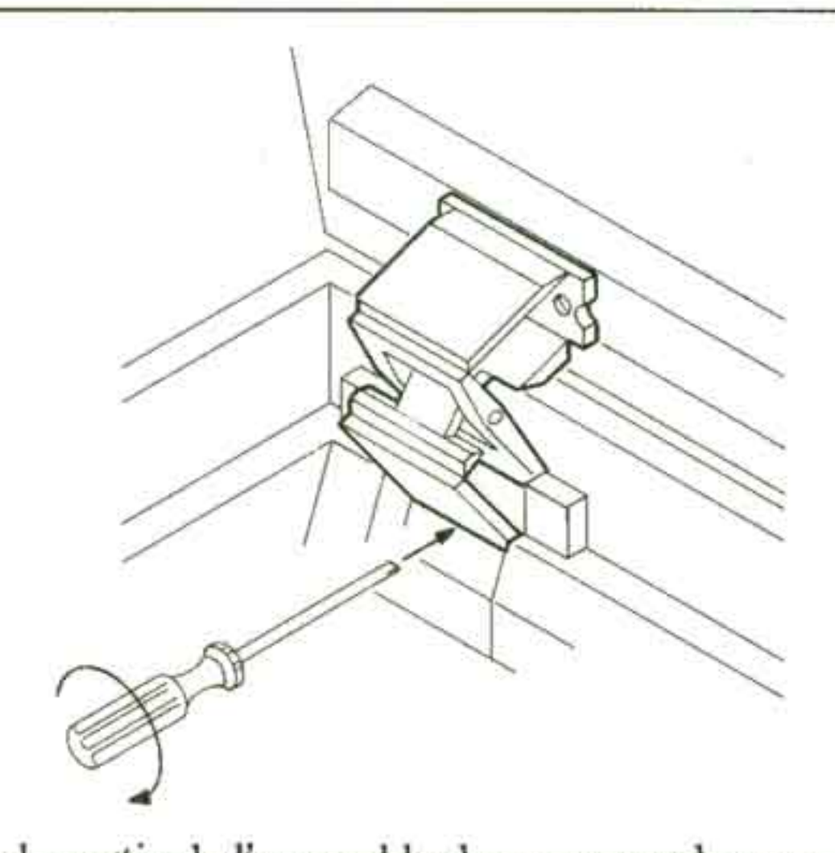
èmplacement de la lampe
u cadran

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.



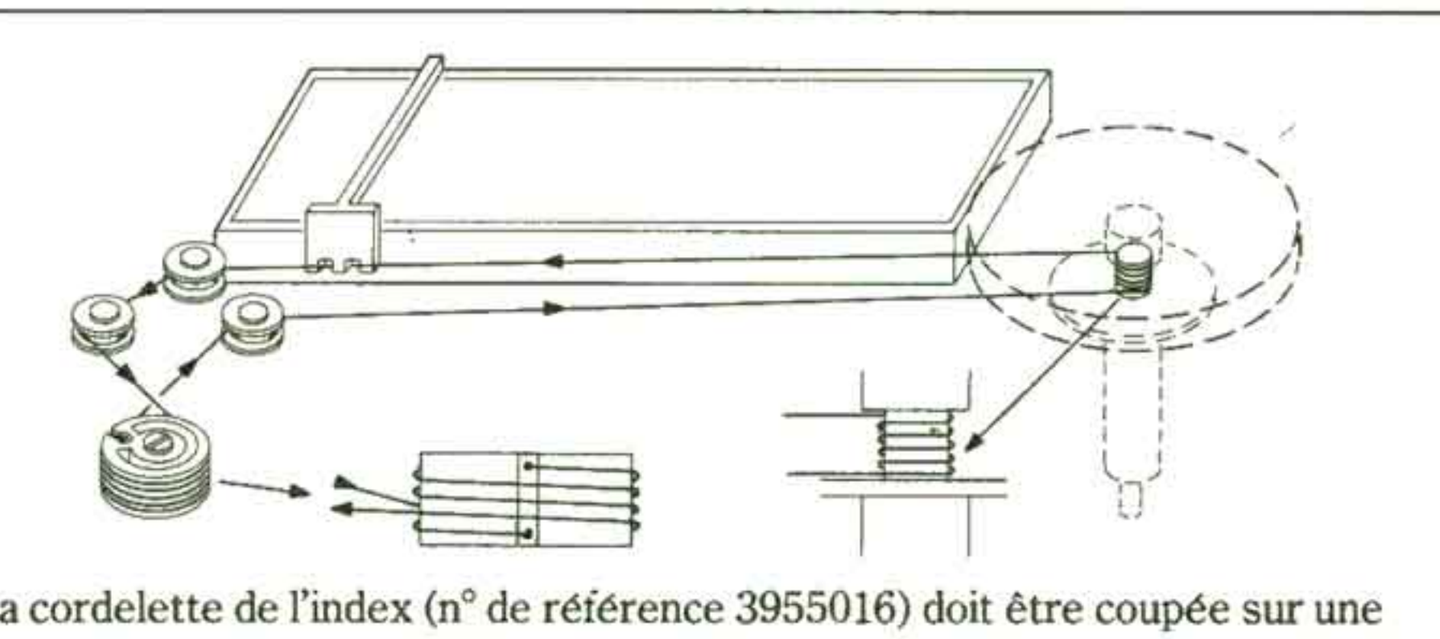
Après le remplacement de la lampe, il faut remettre le boitier à sa place d'origine.

Enlèvement des charnières



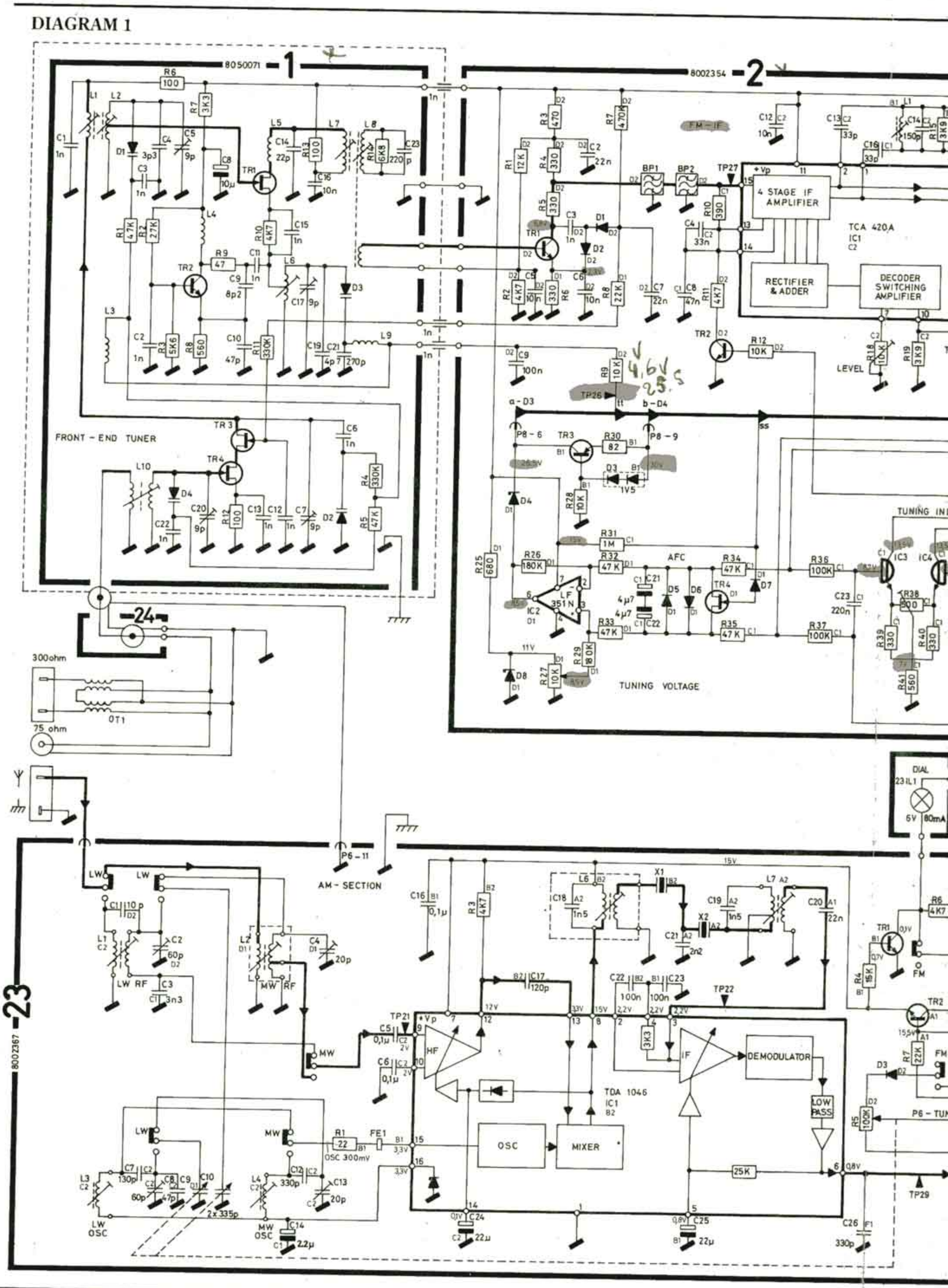
Si on désire enlever la partie de l'ensemble des commandes ou celle de la platine, les charnières peuvent être enlevées par une torsion sous la charnière à l'aide d'un tournevis à lame large et solide.

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
FM - IF
4 STAGE IF AMPLIFIER
TCA 420A
IC1
C2
RECTIFIER & ADDER
DECODER SWITCHING AMPLIFIER
LEVEL
FRONT - END TUNER
TUNING VOLTAGE
TUNING IN
DIAL
23 IL1
6V 80mA
-24-
300ohm
75 ohm
OT1
AM - SECTION
P6 - 11
LW
MW
LW RF
MW RF
LW OSC
MW OSC
OSC 300mV
HF
IF
DEMODULATOR
LOW PASS
TDA 1046
IC1
B2
OSC
MIXER
TP21
TP22
TP26
TP29
P6 - TUN
FM
8002367 -23

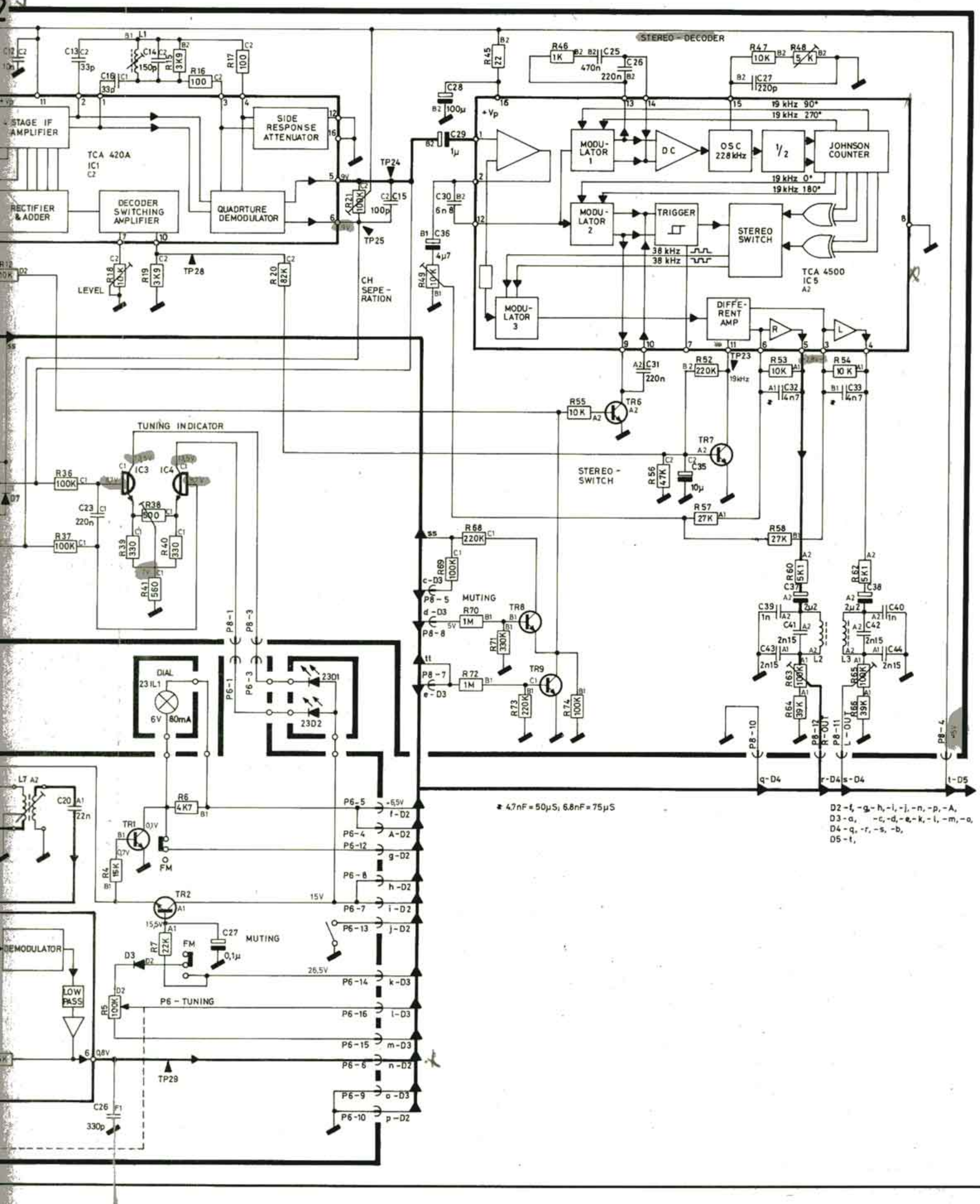
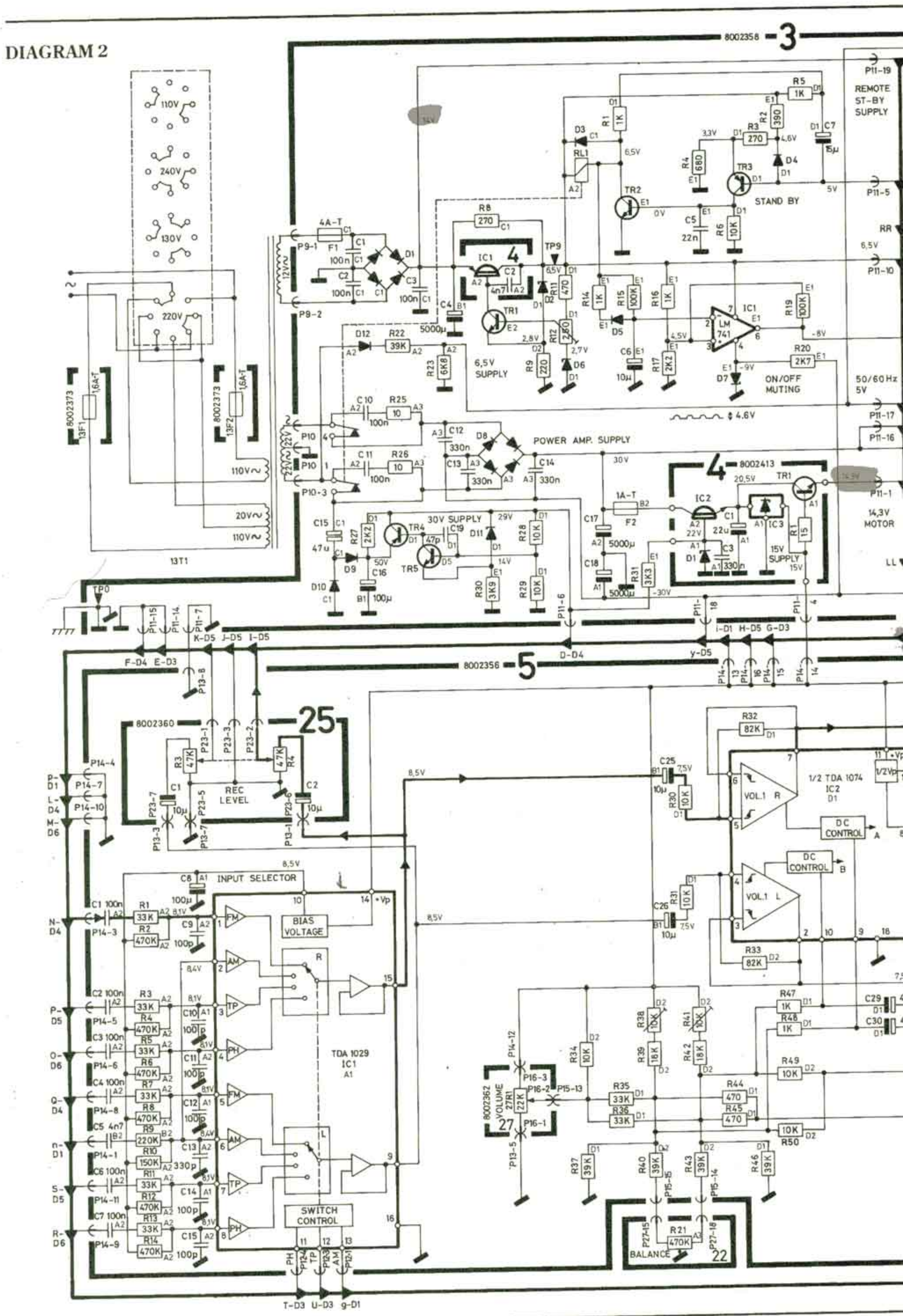

STEREO - DECODER
STAGE IF AMPLIFIER
TCA 420A
IC1
RECTIFIER & ADDER
DECODER SWITCHING AMPLIFIER
QUADRTURE DEMODULATOR
SIDE RESPONSE ATTENUATOR
LEVEL
CH SEPE - RATION
MODU-LATOR 1
MODU-LATOR 2
MODU-LATOR 3
DC
OSC 228 kHz
1/2
JOHNSON COUNTER
TRIGGER
STEREO SWITCH
TCA 4500
IC5
DIFFE-RENT AMP
19 kHz 90°
19 kHz 270°
19 kHz 0°
19 kHz 180°
38 kHz
TUNING INDICATOR
IC3
IC4
STEREO - SWITCH
MUTING
DIAL
6V 80mA
23D1
23D2
DEMODULATOR
LOW PASS
FM
P6 - TUNING
TP23
TP24
TP25
TP28
TP29
R-OUT
L-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,

DIAGRAM 2


8002358 3
110V
240V
130V
220V
4A-T
F1
P9-1
P9-2
12V~
100n
C1
C2
C3
D1
IC1
4
TR1
TP9
6,5V
R1 1K
D3
RL1
A2
6,5V
R5 1K
R2 390
R3 270
4,6V
D4
C7
15µ
3,3V
R4 680
TR3
STAND BY
5V
TR2
0V
C5 22n
R6 10K
R8 270
5000µ
C4
D12
R22 39K
R23 6K8
6,5V SUPPLY
R11 470
R12 280
2,8V
2,7V
R9 220
D6
R14 1K
R15 100K
D5
R16 1K
R17 2K2
C6 10µ
4,5V
IC1 LM 741
R19 100K
-8V
R20 2K7
D7
-9V
ON/OFF MUTING
4,6V
P11-19
REMOTE ST-BY SUPPLY
P11-5
RR
6,5V
P11-10
50/60 Hz 5V
P11-17
P11-16
P11-1
14,3V MOTOR
LL
8002373
13F1
1,6A-T
13F2
110V~
20V~
13T1
C10 100n
R25 10
C11 100n
R26 10
P10
P10-3
C12 330n
C13 330n
D8
POWER AMP. SUPPLY
C14 330n
30V
1A-T
F2
C17 5000µ
C18 5000µ
R31 3K3
-30V
8002413
IC2
20,5V
TR1
22u
C3 330n
IC3
15V SUPPLY
R1 15
C15 47u
R27 2K2
D9
D10
C16 100µ
TR4
30V SUPPLY
C19 47p
TR5
D11
R28 10K
R29 10K
R30 3K9
29V
14V
TP0
P11-15
P11-14
P11-7
K-D5 J-D5 I-D5
F-D4 E-D3
P13-8
8002356 5
i-D1 H-D5 G-D3
D-D4
y-D5
8002360 25
P23-1
P23-3
P23-2
R3 47K
R4 47K
C1 10µ
C2 10µ
REC LEVEL
P13-3
P13-7
P13-1
P14-4
P14-7
P14-10
P-D1
L-D4
M-D6
8,5V
INPUT SELECTOR
C8 100µ
C9 100p
R1 33K
R2 470K
8,1V
8,4V
BIAS VOLTAGE
FM
AM
TP
PH
R
L
TDA 1029 IC1 A1
SWITCH CONTROL
N-D4
P-D5
O-D6
Q-D4
n-D1
S-D5
R-D6
C2 100n
C3 100n
C4 100n
C5 4n7
C6 100n
C7 100n
R3 33K
R4 470K
R5 33K
R6 470K
R7 33K
R8 470K
R9 220K
R10 150K
R11 33K
R12 470K
R13 33K
R14 470K
C10 100p
C11 100p
C12 100p
C13 330p
C14 100p
C15 100p
T-D3 U-D3 g-D1
C25 10µ
R30 10K
C26 10µ
R31 10K
R32 82K
R33 82K
1/2 TDA 1074 IC2 D1
VOL.1 R
VOL.1 L
DC CONTROL
R47 1K
R48 1K
R49 10K
R50 10K
C29
C30
R34 10K
R38 10K
R41 10K
R39 18K
R42 18K
R35 33K
R36 33K
R44 470
R45 470
R37 39K
R40 39K
R43 39K
R46 39K
P14-12
P16-3
P16-2
P15-13
P16-1
P13-5
8002362 VOLUME 27R1 22K
27
P15-15
P15-14
R21 470K
BALANCE
22

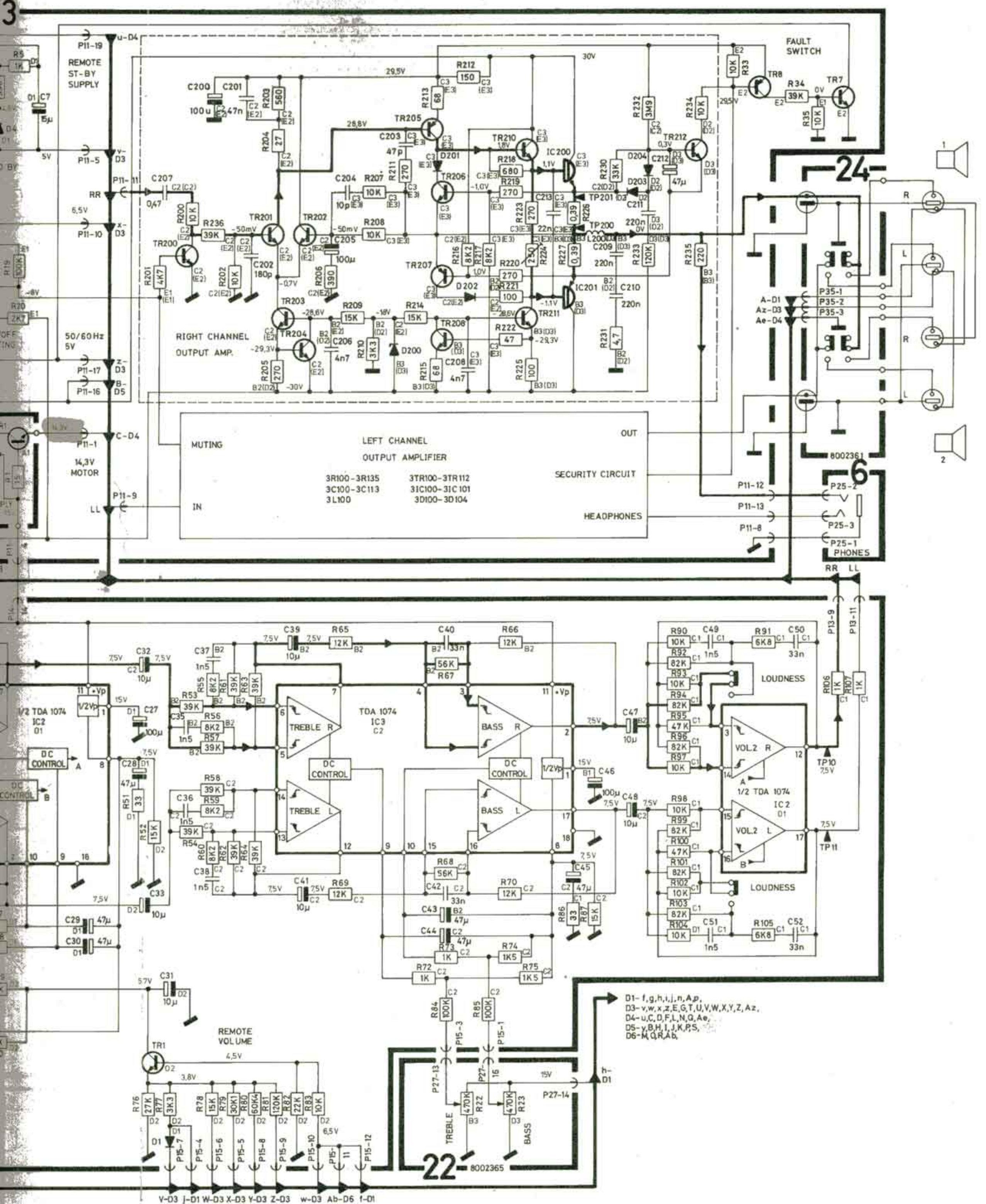
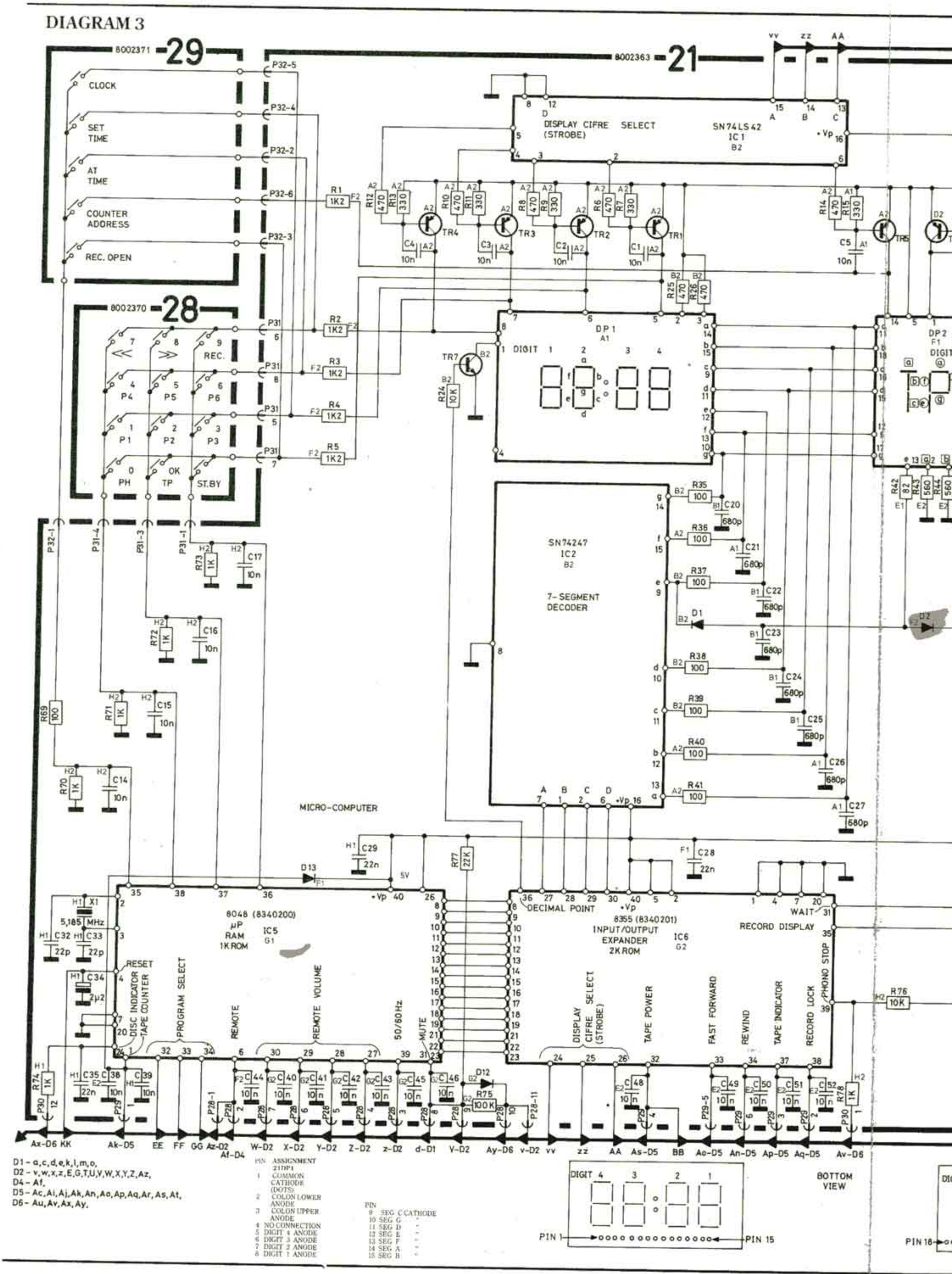

REMOTE ST-BY SUPPLY
FAULT SWITCH
RIGHT CHANNEL OUTPUT AMP.
LEFT CHANNEL OUTPUT AMPLIFIER
MUTING
IN
OUT
SECURITY CIRCUIT
HEADPHONES
3R100-3R135
3C100-3C113
3L100
3TR100-3TR112
3IC100-3IC101
3D100-3D104
14,3V MOTOR
50/60Hz 5V
TDA 1074 IC3 C2
1/2 TDA 1074 IC2 D1
DC CONTROL
TREBLE
BASS
VOL.2
LOUDNESS
REMOTE VOLUME
PHONES
8002361
8002365

DIAGRAM 3


8002371 -29-
8002363 -21-
8002370 -28-
CLOCK
SET TIME
AT TIME
COUNTER ADDRESS
REC. OPEN
P32-5
P32-4
P32-2
P32-6
P32-3
P31
REC.
P4
P5
P6
P1
P2
P3
PH
TP
ST.BY
DISPLAY CIFRE SELECT (STROBE)
SN74LS42
IC1
B2
DP1
A1
DIGIT
DP2
F1
TR1
TR2
TR3
TR4
TR5
TR7
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
RESET
DISC INDICATOR
TAPE COUNTER
PROGRAM SELECT
REMOTE
REMOTE VOLUME
50/60 Hz
MUTE
DISPLAY CIFRE SELECT (STROBE)
TAPE POWER
FAST FORWARD
REWIND
TAPE INDICATOR
RECORD LOCK
PHONO STOP
Ax-D6 KK
Ak-D5
EE
FF
GG
Az-D2
Af-D4
W-D2
X-D2
Y-D2
Z-D2
z-D2
d-D1
V-D2
Ay-D6
v-D2
vv
zz
AA
As-D5
BB
Ao-D5
An-D5
Ap-D5
Aq-D5
Av-D6
BOTTOM VIEW
PIN 1
PIN 15
PIN 16
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 "

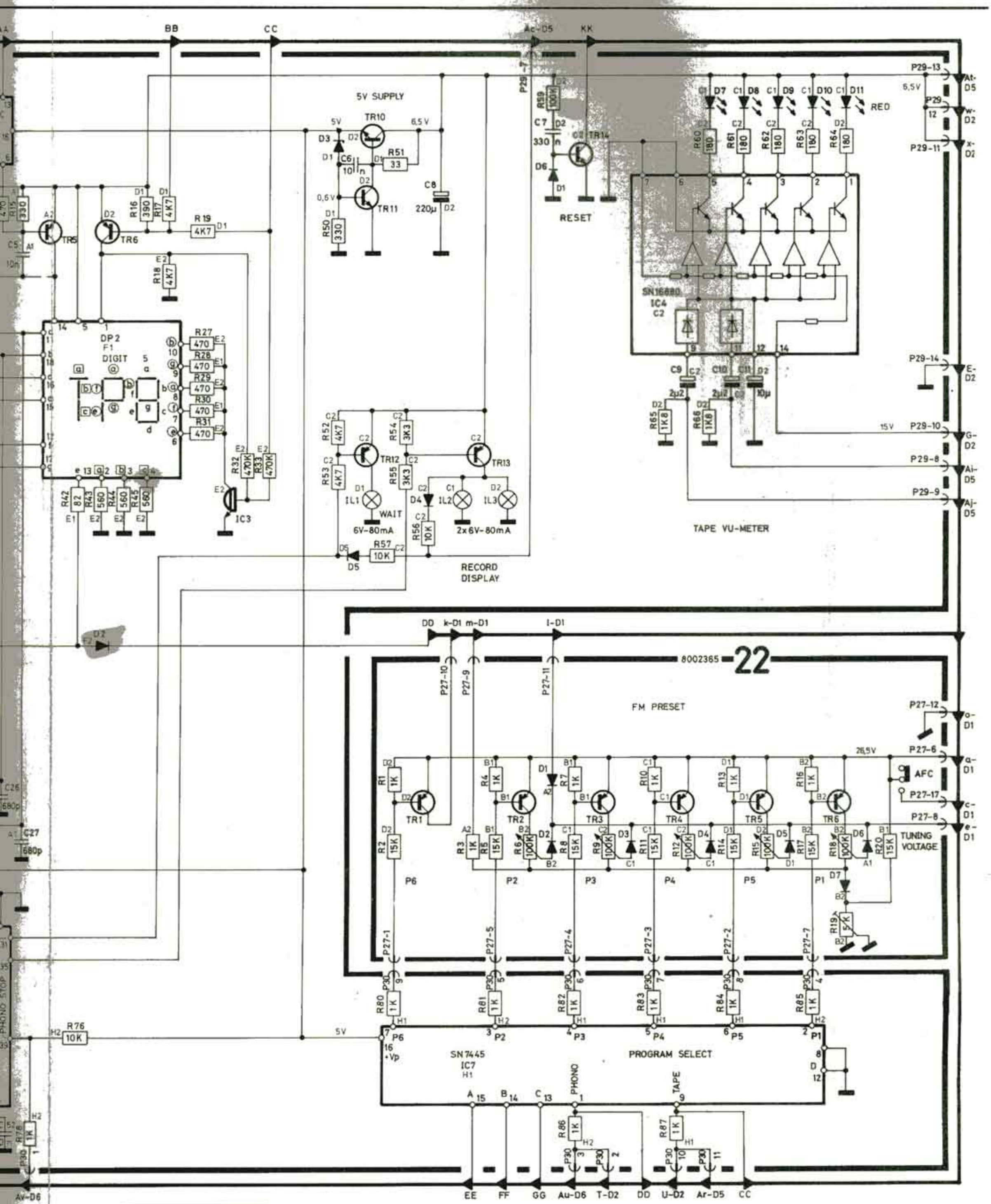
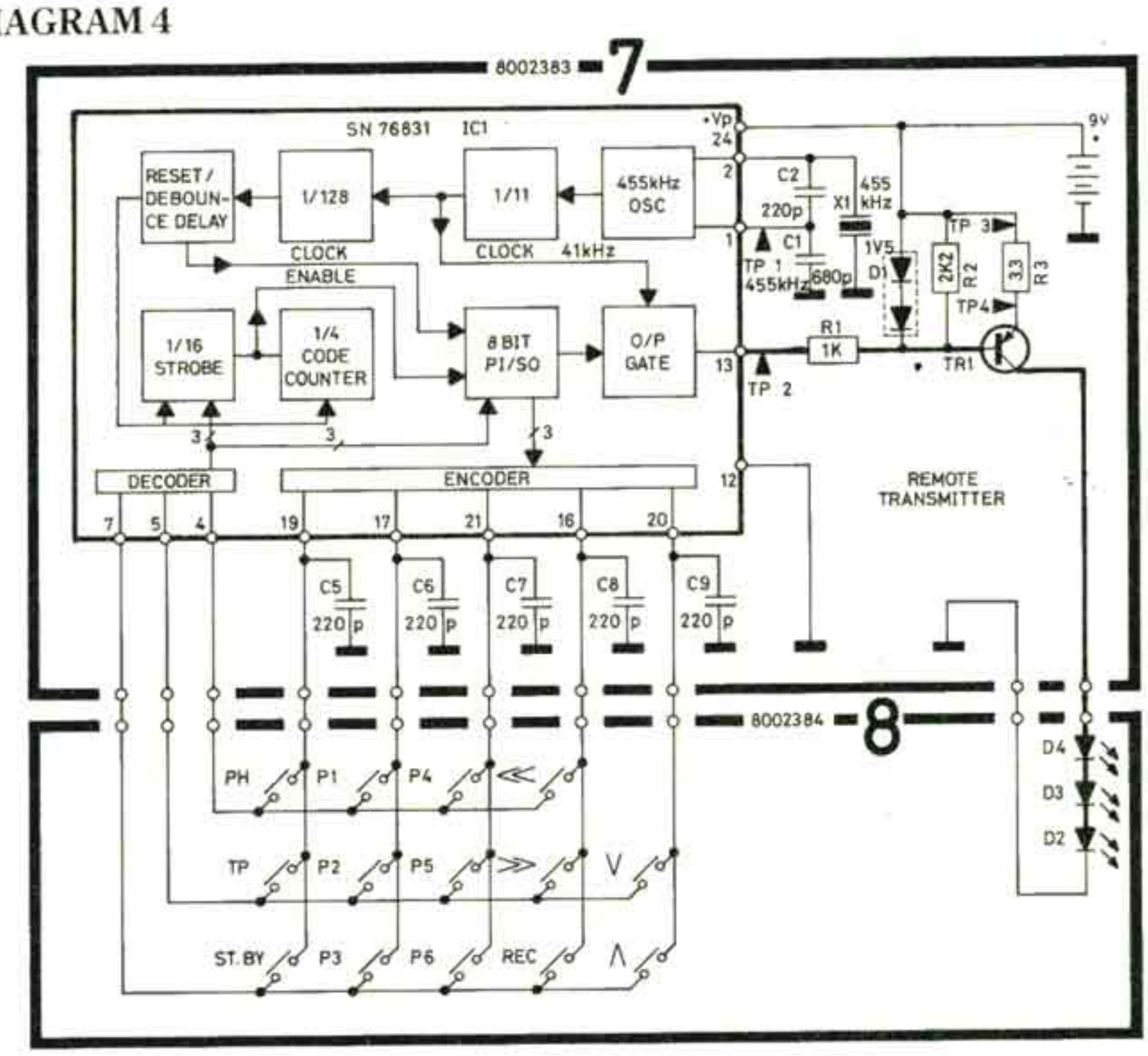
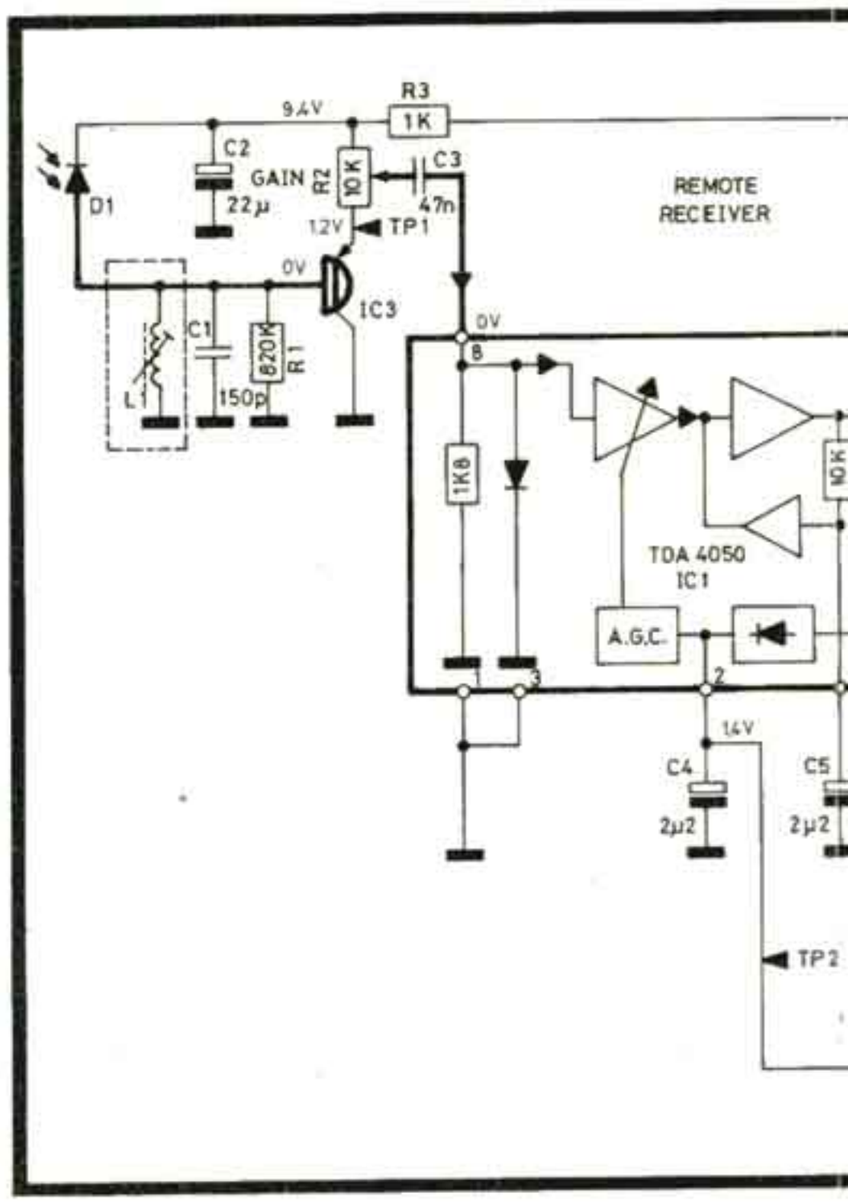
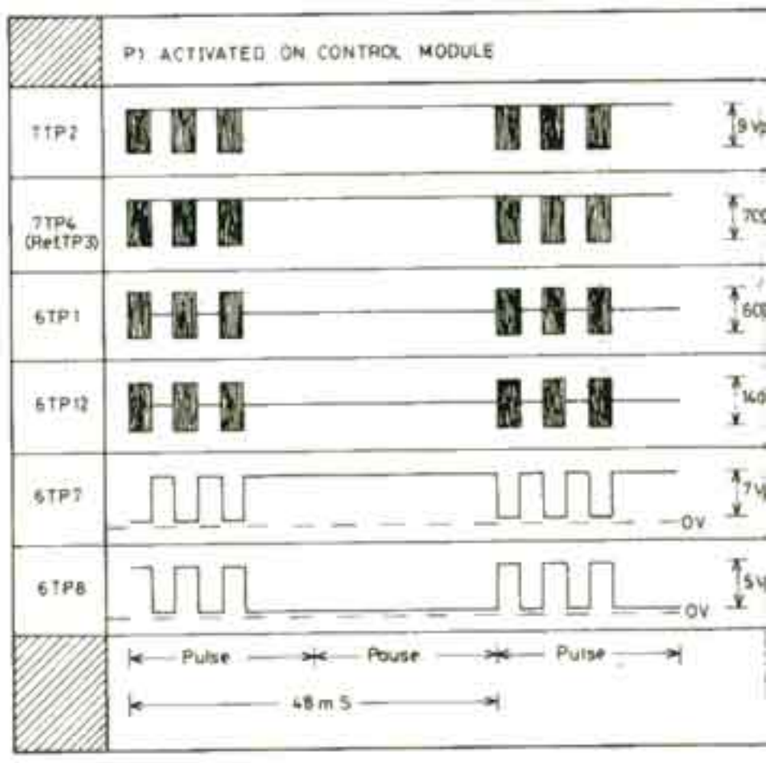

5V SUPPLY
RESET
TAPE VU-METER
RECORD DISPLAY
FM PRESET
PROGRAM SELECT
TUNING VOLTAGE
AFC
SN16680
IC4
SN7445
IC7
DP2
F1
DIGIT
IC3
WAIT
6V-80mA
2x6V-80mA
RED
8002365
22
PIN 18
PIN 1
PIN ASSIGNMENT
21 DP2
1 COMMON ANODE DIGIT 7
2 SEG A CATHODE "
3 SEG B CATHODE "
4 SEG C CATHODE "
5 COMMON ANODE DIGIT P
6 SEG E CATHODE DIGIT P
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 "

DIAGRAM 4





CONTROL MODULE FUNCTION	PINS SHORTED ON 7IC1 4	5	7		16	17	19	20	21	OUTPUT CODE FROM 7IC1 START							
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 21IC5	21IC6	21IC6	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)

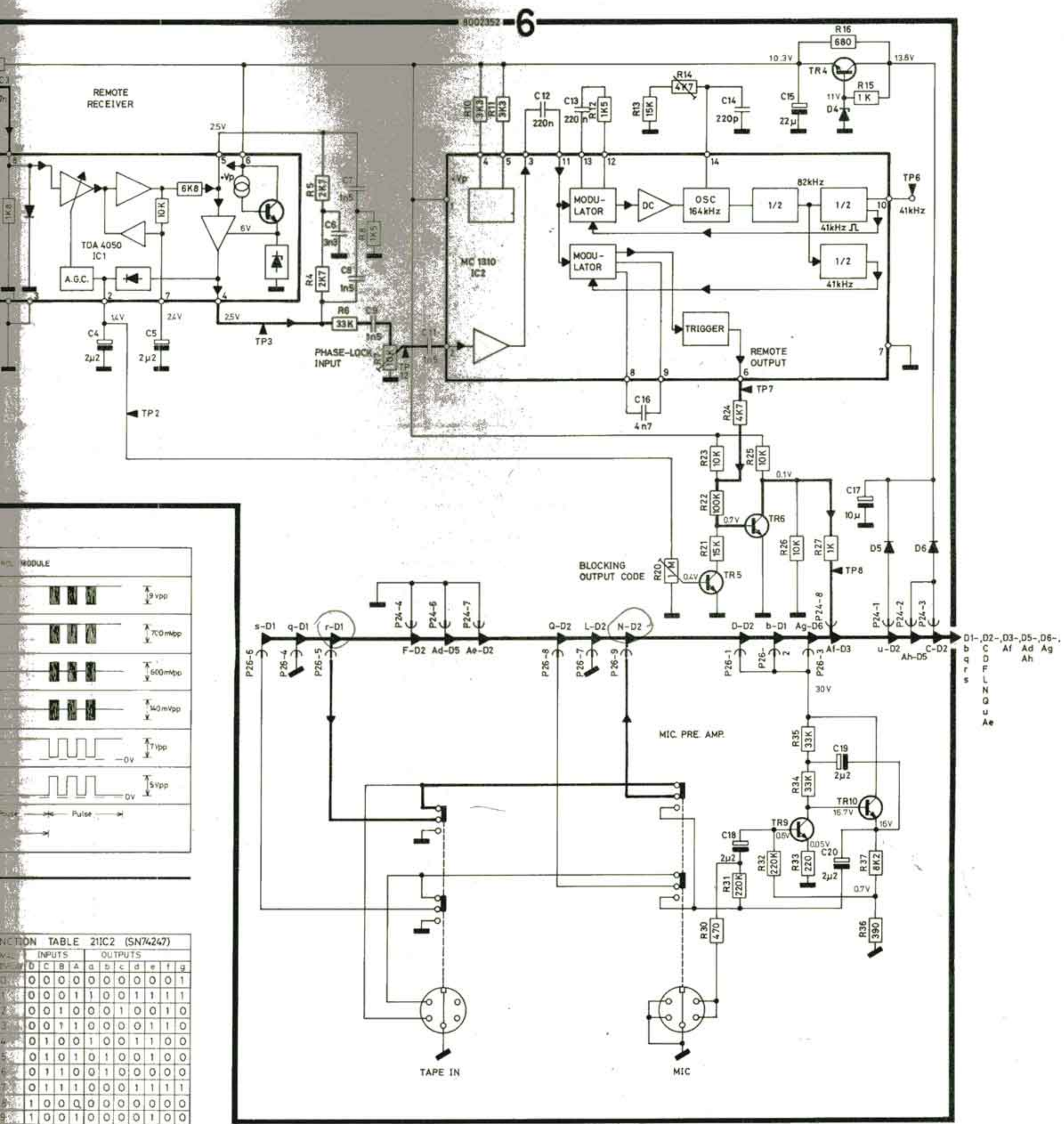
FUNCTION	INPUTS D	C	B	A	OUTPUT AT PINS 1	2	3	4	5	6	7	9
PHONO	0	0	0	0	0	1	1	1	1	1	1	1
P 1	0	0	0	1	1	0	1	1	1	1	1	1
P 2	0	0	1	0	1	1	0	1	1	1	1	1
P 3	0	0	1	1	1	1	1	0	1	1	1	1
P 4	0	1	0	0	1	1	1	1	0	1	1	1
P 5	0	1	0	1	1	1	1	1	1	0	1	1
P 6	0	1	1	0	1	1	1	1	1	1	0	1
TAPE	0	1	1	1	1	1	1	1	1	1	1	0
ST-BY	0	1	1	1	1	1	1	1	1	1	1	0

FUNCTION TABLE 21IC1 (SN74LS42)

INPUTS D	C	B	A	OUTPUT AT PINS 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

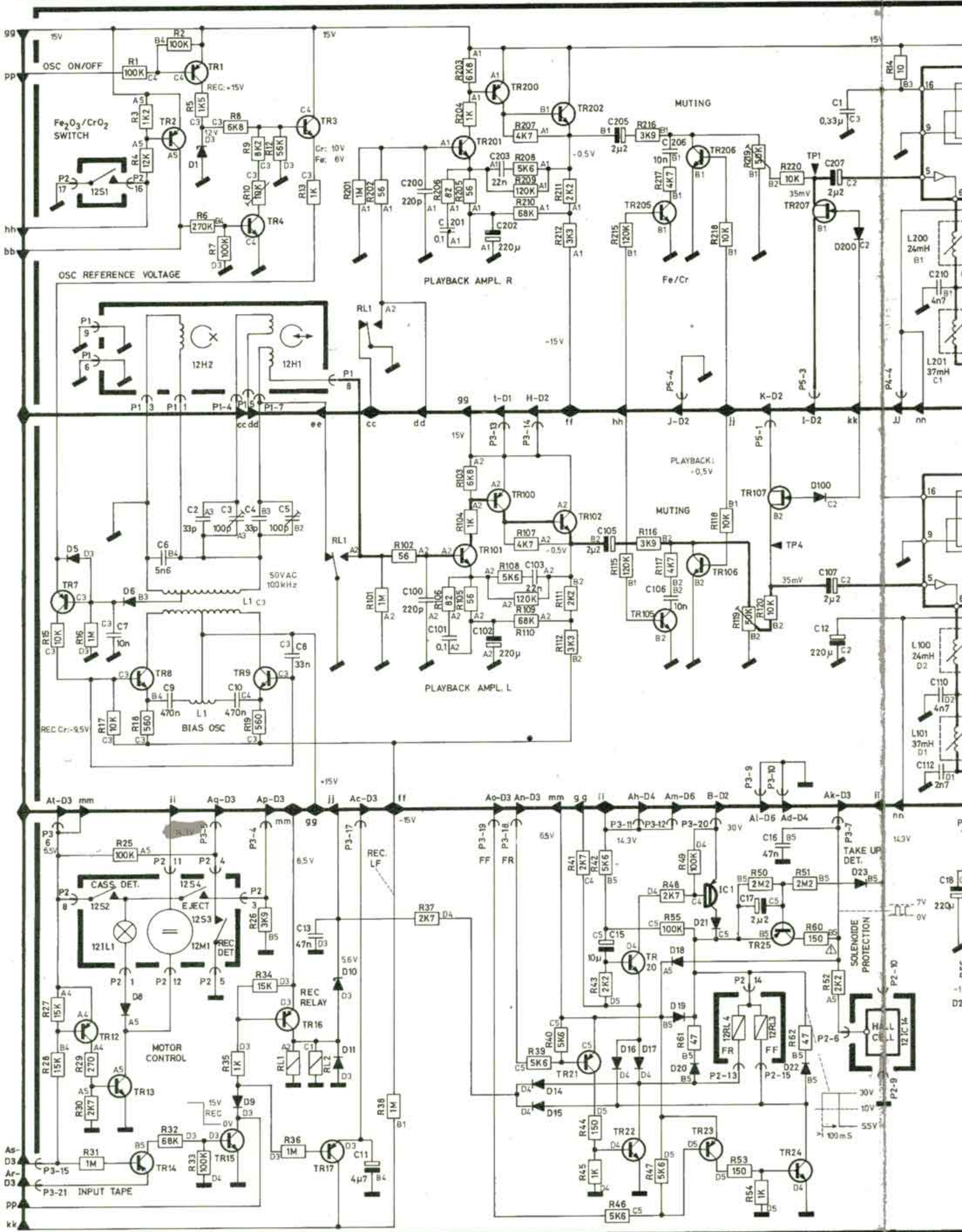
DECIMAL ON DISPLAY	INPUTS D	C	B	A	OUTPUTS a	b	c	d	e
0	0	0	0	0	0	0	0	0	0
1	0	0	0	1	1	0	0	1	1
2	0	0	1	0	0	0	1	0	0
3	0	0	1	1	0	0	0	0	1
4	0	1	0	0	1	0	0	1	1
5	0	1	0	1	0	1	0	0	1
6	0	1	1	0	0	1	0	0	0
7	0	1	1	1	0	0	0	1	1
8	1	0	0	0	0	0	0	0	0
9	1	0	0	1	0	0	0	0	1



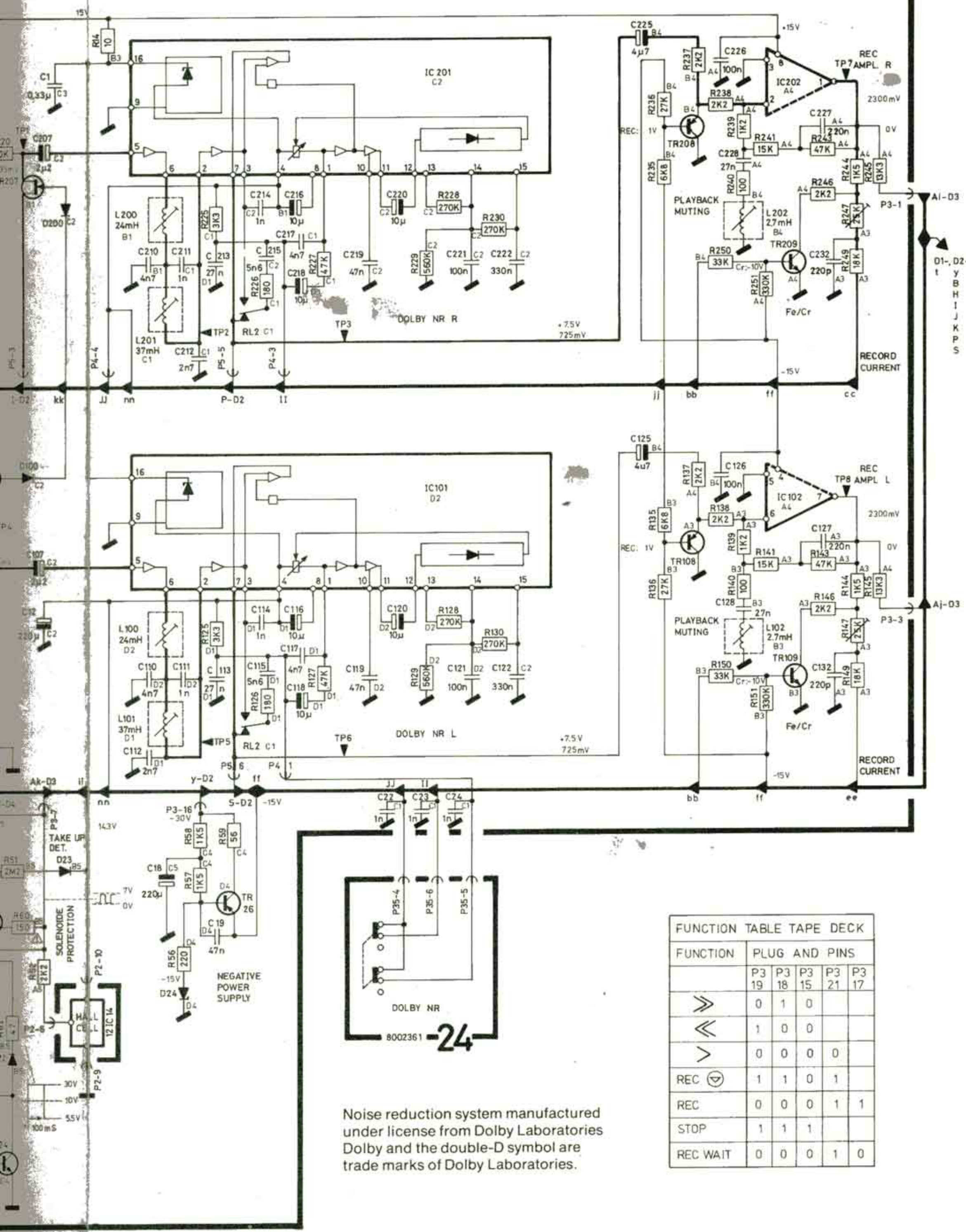
FUNCTION TABLE 21IC2 (SN74247)

INPUTS				OUTPUTS						
D	C	B	A	a	b	c	d	e	f	g
0	0	0	0	0	0	0	0	0	0	1
0	0	0	1	1	0	0	1	1	1	1
0	0	1	0	0	0	1	0	0	1	0
0	0	1	1	0	0	0	0	1	1	0
0	1	0	0	1	0	0	1	1	0	0
0	1	0	1	0	1	0	0	1	0	0
0	1	1	0	0	1	0	0	0	0	0
0	1	1	1	0	0	0	1	1	1	1
1	0	0	0	0	0	0	0	0	0	0
1	0	0	1	0	0	0	0	1	0	0

DIAGRAM 5


OSC ON/OFF
Fe2O3/CrO2 SWITCH
OSC REFERENCE VOLTAGE
PLAYBACK AMPL. R
PLAYBACK AMPL. L
MUTING
Fe/Cr
BIAS OSC
MOTOR CONTROL
REC RELAY
INPUT TAPE
CASS. DET.
EJECT
REC DET
TAKE UP DET.
SOLENOIDE PROTECTION
REC. LF
PLAYBACK: -0,5V
REC Cr:-9,5V

8004210 -11



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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

Bang & Olufsen

ne part pas Venir BC550
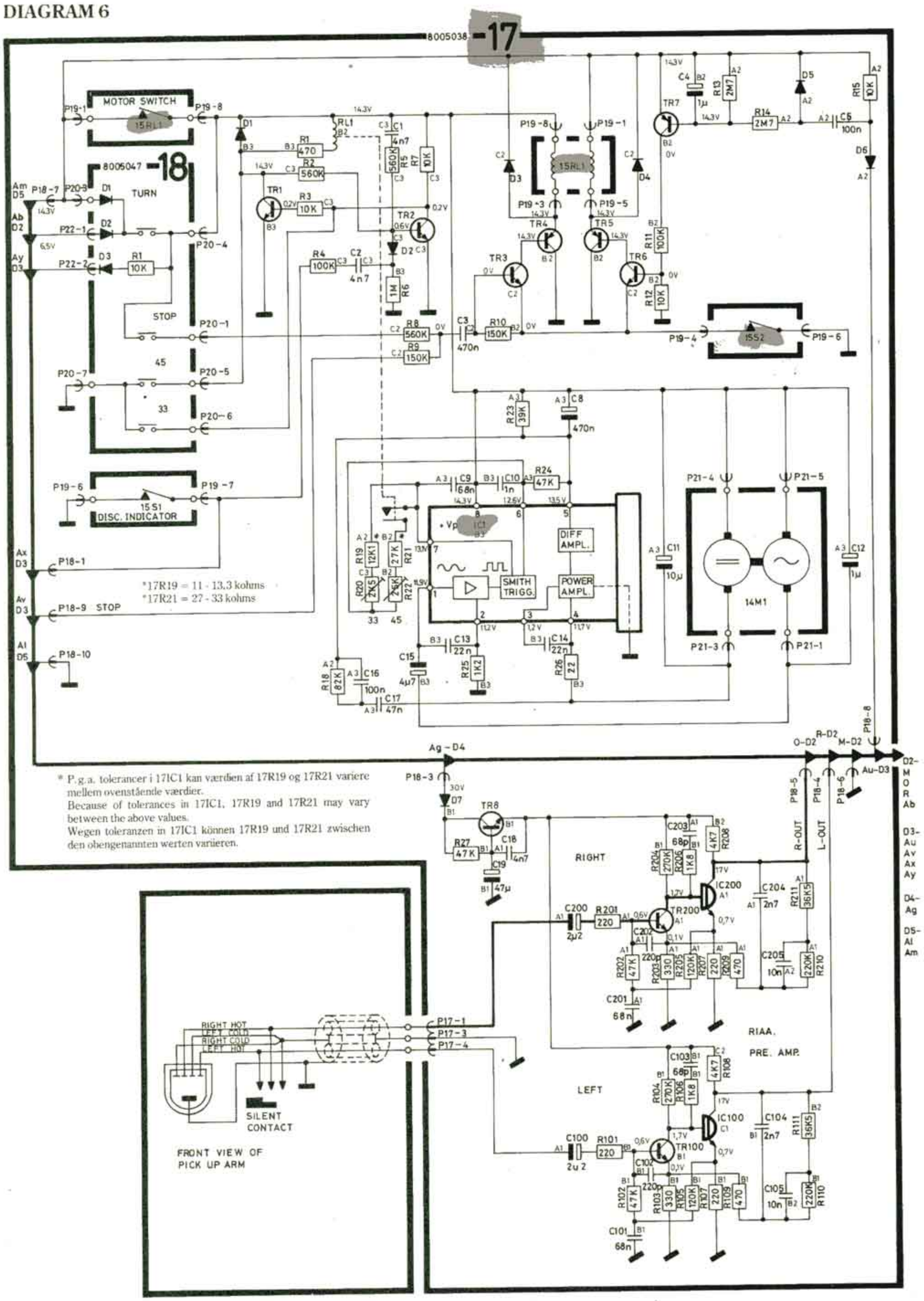
DIAGRAM 6