

A TO FRAME T 76 1396

B TO FRAME U 76 1396

DC-MEASUREMENTS

- Employed meter : FLUKE 8010A
- Supplied signal : Internal convergence signal  
on 15 kHz.

ALL MEASURED VALUES ARE EXPRESSED IN VOLT (DC).

GLEICHSPANNUNGSMESSUNGEN

- Verwandtes Messgerät : FLUKE 8010A
- Gespeistes Signal : Das innere Konvergenz-  
signal auf 15 KHz

ALLE MESSWERTE SIND AUSGEDRÜCKT IN VOLT (DC).

pin	IC 3*	IC 4*	IC 5	IC 6	IC 20	IC 30	IC 40	IC 50	IC 60	IC 70
1	-1.3	1.3	8.5	- 0.0	- 0.0	0.0	- 0.0	0.0	- 0.0	0.0
2	-2.6	2.5	8.5	- 0.7	- 0.7	0.0	- 0.7	0.0	- 0.7	0.0
3	-7.7	7.6	8.5	- 0.7	- 0.7	-17.7	- 0.7	-17.7	- 0.7	-17.7
4	-	-	12.0	- 0.0	- 0.0	- 0.0	- 0.0	- 0.0	- 0.0	- 0.0
5	-	-	0.8	-10.8	-11.1	16.8	-11.1	16.8	-11.1	16.8
6	-	-	0.8	8.6	8.7	-	8.7	-	8.6	-
7	-	-	2.5	0.0	0.0	-	0.0	-	0.0	-
8	-	-	-2.5	6.0	6.0	-	6.0	-	6.0	-
9	-	-	0.0	0.0	0.0	-	0.0	-	0.0	-
10	-	-	0.0	6.0	6.0	-	6.0	-	6.0	-
11	-	-	-12.2	0.0	0.0	-	0.0	-	0.0	-
12	-	-	0.0	12.1	12.1	-	12.1	-	12.1	-
13	-	-	0.0	0.0	0.0	-	0.0	-	0.0	-
14	-	-	0.0	-12.2	-12.2	-	-12.2	-	-12.2	-

pin	IC 80*	IC 90*	IC 100*
1	- 0.1	- 0.1	0.1
2	- 0.1	- 0.1	- 0.1
3	- 7.8	- 7.8	- 7.8
4	- 0.3	- 0.2	- 0.2
5	7.6	7.6	7.6

	IC 1	IC 2
IN	16.82	-17.72
OUT	12.09	-12.17

	c	b	e
Q1	- 0.1	0.7	0.0
Q20	12.1	8.7	8.0
Q40	12.1	8.7	8.1
Q60	12.1	8.7	8.0

\* : Ground must be taken at pin 31 or 32 of CN B

\* : Erde muß genommen werden an Anschluß 31 oder 32 von CN B

- : pin is not used or not existing

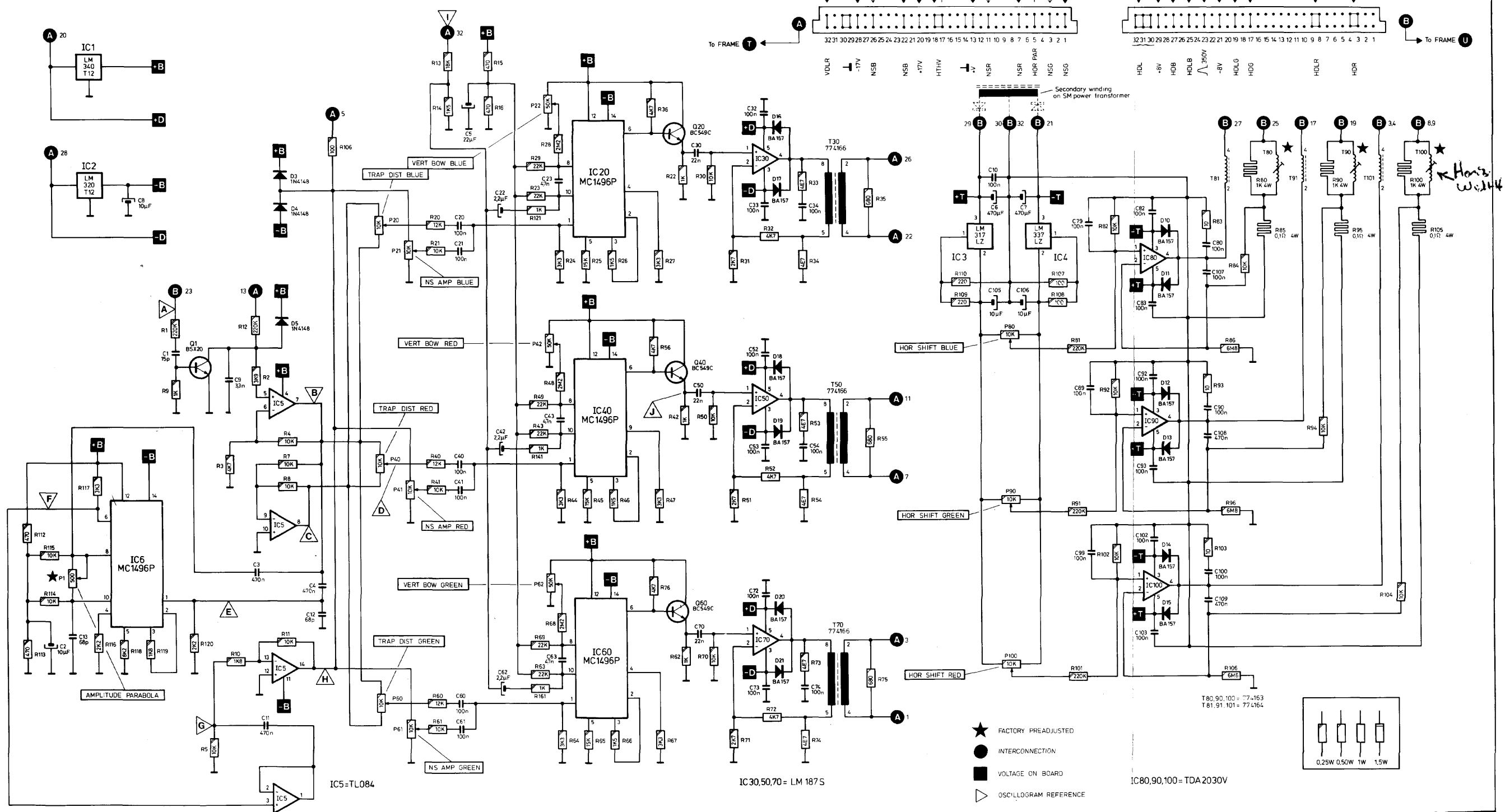
- : Dieser Anschluß ist nicht verwendet oder besteht nicht.

ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
11 2681	C..1	CAPACITOR N750MI 15P G5 500	13 4002	I..1	INTEGRATED CIRCUIT 7812
11 11565	C..2	CAPACITOR ELAX 10M Z 25	13 4016	I..2	INTEGRATED CIRCUIT 7912
11 3732	C..3	CAPACITOR POME 470K K5 63	13 4028	I..3	INTEGRATED CIRCUIT 317LZ
11 3732	C..4	CAPACITOR POME 470K K5 63	13 4029	I..4	INTEGRATED CIRCUIT 337LZ
11 1510	C..5	CAPACITOR ELPRMI 22M M5 25	13 4113	I..5	INTEGRATED CIRCUIT 084
11 1468	C..6	CAPACITOR ELPR 470M Z5 16	13 2765	I..6	INTEGRATED CIRCUIT 1496P
11 1468	C..7	CAPACITOR ELPR 470M Z5 16	13 27655	I.20	INTEGRATED CIRCUIT 1496
11 1531	C..8	CAPACITOR ELPRMI 10M M5 35	13 2788	I.30	INTEGRATED CIRCUIT 1875 LM
11 5928	C..9	CAPACITOR PP RA 3K3 J5 63	13 27655	I.40	INTEGRATED CIRCUIT 1496
11 2774	C.10	CAPACITOR CE MI 100K U5 63	13 2788	I.50	INTEGRATED CIRCUIT 1875 LM
11 3732	C.11	CAPACITOR POME 470K K5 63	13 27655	I.60	INTEGRATED CIRCUIT 1496
11 2240	C.12	CAPACITOR NPO MI 68P J5 63	13 2788	I.70	INTEGRATED CIRCUIT 1875 LM
11 2240	C.13	CAPACITOR NPO MI 68P J5 63	13 2751	I.80	INTEGRATED CIRCUIT 2030V TDA
11 3724	C.20	CAPACITOR POME 100K K5 63	13 2751	I.90	INTEGRATED CIRCUIT 2030V TDA
11 3724	C.21	CAPACITOR POME 100K K5 63	13 2751	I100	INTEGRATED CIRCUIT 2030V TDA
11 1548	C.22	CAPACITOR ELPRMI 2M2 M5 50			
11 2747	C.23	CAPACITOR CE MI 4K7 K5 63	10 6725	P..1	TRIMPOT CEMH 500E K OW50
11 37161	C.30	CAPACITOR POME 22K K5 100	10 6829	P.20	TRIMPOT CEMV 10K K OW50
11 4079	C.32	CAPACITOR POMEPO 100K M5 63	10 6829	P.21	TRIMPOT CEMV 10K K OW50
11 4079	C.33	CAPACITOR POMEPO 100K M5 63	10 6832	P.22	TRIMPOT CEMV 50K K OW50
11 2774	C.34	CAPACITOR CE MI 100K U5 63	10 6829	P.40	TRIMPOT CEMV 10K K OW50
11 3724	C.40	CAPACITOR POME 100K K5 63	10 6829	P.41	TRIMPOT CEMV 10K K OW50
11 3724	C.41	CAPACITOR POME 100K K5 63	10 6832	P.42	TRIMPOT CEMV 50K K OW50
11 1548	C.42	CAPACITOR ELPRMI 2M2 M5 50	10 6829	P.60	TRIMPOT CEMV 10K K OW50
11 2747	C.43	CAPACITOR CE MI 4K7 K5 63	10 6829	P.61	TRIMPOT CEMV 10K K OW50
11 4124	C.50	CAPACITOR POMEFF 22K K 250	10 6832	P.62	TRIMPOT CEMV 50K K OW50
11 4079	C.52	CAPACITOR POMEPO 100K M5 63	10 75271	P.80	MULTITURN CEM 10K K OW50
11 4079	C.53	CAPACITOR POMEPO 100K M5 63	10 75271	P.90	MULTITURN CEM 10K K OW50
11 2774	C.54	CAPACITOR CE MI 100K U5 63	10 75271	P100	MULTITURN CEM 10K K OW50
11 3724	C.60	CAPACITOR POME 100K K5 63			
11 3724	C.61	CAPACITOR POME 100K K5 63	71 6466	PC..	PC GRAPHICS NS 761268
11 1548	C.62	CAPACITOR ELPRMI 2M2 M5 50			
11 2747	C.63	CAPACITOR CE MI 4K7 K5 63	13 1491	Q..1	TRANSISTOR BSX20,2N2369
11 4124	C.70	CAPACITOR POMEFF 22K K 250	13 1411	Q.20	TRANSISTOR BC549C,BC239C
11 4079	C.72	CAPACITOR POMEPO 100K M5 63	13 1411	Q.40	TRANSISTOR BC549C,BC239C
11 4079	C.73	CAPACITOR POMEPO 100K M5 63	13 1411	Q.60	TRANSISTOR BC549C,BC239C
11 2774	C.74	CAPACITOR CE MI 100K U5 63			
11 3724	C.79	CAPACITOR POME 100K K5 63	10 1264	R..1	RESISTOR CF 220K J OW50
11 3724	C.80	CAPACITOR POME 100K K5 63	10 1143	R..2	RESISTOR CF 3K9 J OW25
11 3724	C.82	CAPACITOR POME 100K K5 63	10 1144	R..3	RESISTOR CF 4K7 J OW25
11 3724	C.83	CAPACITOR POME 100K K5 63	10 1148	R..4	RESISTOR CF 10K J OW25
11 3724	C.89	CAPACITOR POME 100K K5 63	10 1148	R..5	RESISTOR CF 10K J OW25
11 3724	C.90	CAPACITOR POME 100K K5 63	10 1148	R..7	RESISTOR CF 10K J OW25
11 3724	C.92	CAPACITOR POME 100K K5 63	10 1148	R..8	RESISTOR CF 10K J OW25
11 3724	C.93	CAPACITOR POME 100K K5 63	10 1136	R..9	RESISTOR CF 1K J OW25
11 3724	C.99	CAPACITOR POME 100K K5 63	10 1139	R.10	RESISTOR CF 1K8 J OW25
11 3724	C100	CAPACITOR POME 100K K5 63	10 1148	R.11	RESISTOR CF 10K J OW25
11 3724	C102	CAPACITOR POME 100K K5 63	10 1264	R.12	RESISTOR CF 220K J OW50
11 3724	C103	CAPACITOR POME 100K K5 63	10 1151	R.13	RESISTOR CF 18K J OW25
11 1531	C105	CAPACITOR ELPRMI 10M M5 35	10 1138	R.14	RESISTOR CF 1K5 J OW25
11 1531	C106	CAPACITOR ELPRMI 10M M5 35	10 1132	R.15	RESISTOR CF 470E J OW25
11 3732	C107	CAPACITOR POME 470K K5 63	10 1132	R.16	RESISTOR CF 470E J OW25
11 3732	C108	CAPACITOR POME 470K K5 63	10 1149	R.20	RESISTOR CF 12K J OW25
11 3732	C109	CAPACITOR POME 470K K5 63	10 1148	R.21	RESISTOR CF 10K J OW25
			10 1136	R.22	RESISTOR CF 1K J OW25
13 1621	D..3	DIODE 1N4148 SWITCH	10 1152	R.23	RESISTOR CF 22K J OW25
13 1621	D..4	DIODE 1N4148 SWITCH	10 1142	R.24	RESISTOR CF 3K3 J OW25
13 1621	D..5	DIODE 1N4148 SWITCH	10 1150	R.25	RESISTOR CF 15K J OW25
13 1637	D.10	DIODE BA158 SWITCH	10 1134	R.26	RESISTOR CF 680E J OW25
13 1637	D.11	DIODE BA158 SWITCH	10 1142	R.27	RESISTOR CF 3K3 J OW25
13 1637	D.12	DIODE BA158 SWITCH	10 1176	R.28	RESISTOR CF 2M2 J OW25
13 1637	D.13	DIODE BA158 SWITCH	10 1152	R.29	RESISTOR CF 22K J OW25
13 1637	D.14	DIODE BA158 SWITCH	10 1148	R.30	RESISTOR CF 10K J OW25
13 1637	D.15	DIODE BA158 SWITCH	10 1141	R.31	RESISTOR CF 2K7 J OW25
13 1637	D.16	DIODE BA158 SWITCH	10 1144	R.32	RESISTOR CF 4K7 J OW25
13 1637	D.17	DIODE BA158 SWITCH	10 1108	R.33	RESISTOR CF 4E7 J OW25
13 1637	D.18	DIODE BA158 SWITCH	10 2808	R.34	RESISTOR MF 4E7 G OW70
13 1637	D.19	DIODE BA158 SWITCH	10 1234	R.35	RESISTOR CF 680E J OW50
13 1637	D.20	DIODE BA158 SWITCH	10 1144	R.36	RESISTOR CF 4K7 J OW25
13 1637	D.21	DIODE BA158 SWITCH	10 1149	R.40	RESISTOR CF 12K J OW25

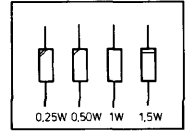
ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
10 1148	R.41	RESISTOR CF 10K J 0W25	10 1148	R102	RESISTOR CF 10K J 0W25
10 1136	R.42	RESISTOR CF 1K J 0W25	10 1112	R103	RESISTOR CF 10E J 0W25
10 1152	R.43	RESISTOR CF 22K J 0W25	10 1148	R104	RESISTOR CF 10K J 0W25
10 1142	R.44	RESISTOR CF 3K3 J 0W25	10 3600	R105	RESISTOR WW H 0E10 K 4W
10 1150	R.45	RESISTOR CF 15K J 0W25	10 1124	R106	RESISTOR CF 100E J 0W25
10 1134	R.46	RESISTOR CF 680E J 0W25	10 1124	R107	RESISTOR CF 100E J 0W25
10 1142	R.47	RESISTOR CF 3K3 J 0W25	10 1124	R108	RESISTOR CF 100E J 0W25
10 1176	R.48	RESISTOR CF 2M2 J 0W25	10 1128	R109	RESISTOR CF 220E J 0W25
10 1152	R.49	RESISTOR CF 22K J 0W25	10 1128	R110	RESISTOR CF 220E J 0W25
10 1148	R.50	RESISTOR CF 10K J 0W25	10 1132	R112	RESISTOR CF 470E J 0W25
10 1141	R.51	RESISTOR CF 2K7 J 0W25	10 1132	R113	RESISTOR CF 470E J 0W25
10 1144	R.52	RESISTOR CF 4K7 J 0W25	10 1148	R114	RESISTOR CF 10K J 0W25
10 1108	R.53	RESISTOR CF 4E7 J 0W25	10 1148	R115	RESISTOR CF 10K J 0W25
10 2808	R.54	RESISTOR MF 4E7 G 0W70	10 1140	R116	RESISTOR CF 2K2 J 0W25
10 1234	R.55	RESISTOR CF 680E J 0W50	10 1142	R117	RESISTOR CF 3K3 J 0W25
10 1144	R.56	RESISTOR CF 4K7 J 0W25	10 1147	R118	RESISTOR CF 8K2 J 0W25
10 1149	R.60	RESISTOR CF 12K J 0W25	10 1139	R119	RESISTOR CF 1K8 J 0W25
10 1148	R.61	RESISTOR CF 10K J 0W25	10 1140	R120	RESISTOR CF 2K2 J 0W25
10 1136	R.62	RESISTOR CF 1K J 0W25	10 1136	R121	RESISTOR CF 1K J 0W25
10 1152	R.63	RESISTOR CF 22K J 0W25	10 4674	R126	RESISTOR HV 6M8 J 0W50
10 1142	R.64	RESISTOR CF 3K3 J 0W25	10 1136	R141	RESISTOR CF 1K J 0W25
10 1150	R.65	RESISTOR CF 15K J 0W25	10 1136	R161	RESISTOR CF 1K J 0W25
10 1134	R.66	RESISTOR CF 680E J 0W25	77 4166	T.30	TRANSFORMER N/S GRAPHICS
10 1142	R.67	RESISTOR CF 3K3 J 0W25	77 4166	T.50	TRANSFORMER N/S GRAPHICS
10 1176	R.68	RESISTOR CF 2M2 J 0W25	77 4166	T.70	TRANSFORMER N/S GRAPHICS
10 1152	R.69	RESISTOR CF 22K J 0W25	77 4163	T.80	COIL AMPLITUDE HOR GRAPHICS
10 1148	R.70	RESISTOR CF 10K J 0W25	77 4164	T.81	COIL SHIFT HOR GRAPHICS
10 1141	R.71	RESISTOR CF 2K7 J 0W25	77 4163	T.90	COIL AMPLITUDE HOR GRAPHICS
10 1144	R.72	RESISTOR CF 4K7 J 0W25	77 4164	T.91	COIL SHIFT HOR GRAPHICS
10 1108	R.73	RESISTOR CF 4E7 J 0W25	77 4163	T100	COIL AMPLITUDE HOR GRAPHICS
10 2808	R.74	RESISTOR MF 4E7 G 0W70	77 4164	T101	COIL SHIFT HOR GRAPHICS
10 1234	R.75	RESISTOR CF 680E J 0W50	31 3525	001.	CONNECTOR EURO MOBSE P64
10 1144	R.76	RESISTOR CF 4K7 J 0W25	31 3531	0010	CONNECTOR EURO MOBSE P64 KEY
10 3660	R.80	RESISTOR WW H 1K K 4W	36 7699	0011	RIVET CHOBERT D2,38 L6,35
10 1164	R.81	RESISTOR CF 220K J 0W25	80 1288	003.	HEATSINK 45 NS
10 1148	R.82	RESISTOR CF 10K J 0W25	36 20276	0032	SCREW DIN84 M 3 X20 MP-
10 1112	R.83	RESISTOR CF 10E J 0W25	36 75256	0033	WASHER DIA 3,1 X 6,2 TO,6 J
10 1148	R.84	RESISTOR CF 10K J 0W25	36 61026	0034	NUT DIN934 M 3 HEXAGONAL
10 3600	R.85	RESISTOR WW H 0E10 K 4W	13 3029	0035	TRANSISTOR SET INSULAT TO-220
10 4674	R.86	RESISTOR HV 6M8 J 0W50	13 30292	0036	TRANSISTOR BUSH INSULAT TO-220
10 3660	R.90	RESISTOR WW H 1K K 4W	36 2020	0039	SCREW DIN84 M 3 X 4 MP-
10 1164	R.91	RESISTOR CF 220K J 0W25	36 20226	0039	SCREW DIN84 M 3 X 8 MP-
10 1148	R.92	RESISTOR CF 10K J 0W25	80 1787	0039	SCREW NUT N/S H5 M3/M3 BGR400
10 1112	R.93	RESISTOR CF 10E J 0W25	80 1788	0039	SCREENING N/S BGR400
10 1148	R.94	RESISTOR CF 10K J 0W25	31 5315		CONNECTOR RIVET MOBTE D2 L14
10 3600	R.95	RESISTOR WW H 0E10 K 4W	13 30291		TRANSISTOR MICA INSULAT TO-220
10 4674	R.96	RESISTOR HV 6M8 J 0W50	13 30292		TRANSISTOR BUSH INSULAT TO-220
10 3660	R100	RESISTOR WW H 1K K 4W			
10 1164	R101	RESISTOR CF 220K J 0W25			

Problem Path  
IC6  
see also training manual

FOCUS CONTROL	B14
SWITCH HORIZONTAL SCAN RED	
SWITCH HORIZONTAL SCAN BLUE	X
SWITCH HORIZONTAL SCAN GREEN	
SWITCH VERTICAL SCAN	X
SWITCH MODE POWER SUPPLY	X
VERTICAL DEFLECTION + SYNC	B20 B1 B28 B7 B6 B22 B2 B23 B24 B22 A7 A22 B28 A13 B22
HORIZONTAL DEFLECTION + EHT	



- ★ FACTORY PREADJUSTED
- INTERCONNECTION
- VOLTAGE ON BOARD
- ▷ OSCILLOGRAM REFERENCE



																														MODIFICATIONS: RESERVED										Name NS CORRECTION & HORIZONTAL SHIFT		Article n° 76 1268	
R	112,113	114,115	P1	116,117	118	119	1,9	120	5	3,10	2,12	4,7,8,11	106	P20,P40,P60,P21,P41,P61	13,20,40,60 14,21,41,61	15,16	23,25,121,43,49,141,28,48,24,44,25,45 53,55,151,122,142,143,58,64,65	26,46,66	36,56,76,27,47,67,22,42,62	30,50,70	31,51,71	32,52,72	33,53,73,34,54,74	35,55,75	109,110	P80,P90,P100	107,81,91,101,108	82,92,102	83,93,103,86,96,106,84,80,85	94	90	95											
C	2	13		8		1			9	3	11	4,12		20,21,40,41,60,615	22,42,62	23,43,63			30,50,70		32,33,52,53,72,73,34,54,74					6,10,105	7,106	82,83,92,93,102,103	80,90,100,107,108,109														
Q													1	D3,D4,05														D16 --- D21															
																														BARCO Electronic										Hordaan, 6 8720 Kuurne - Belgium		66 1265	

NS CORRECTION & HORIZONTAL SHIFT

Article no. 76 1268

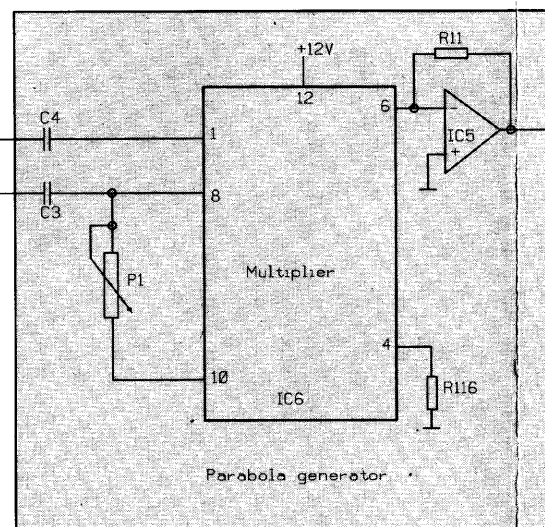
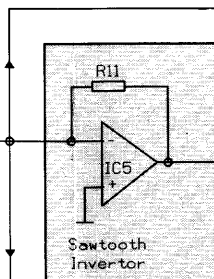
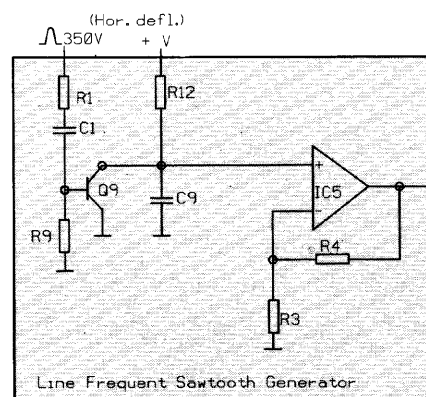
Date 27/08/87

Drawn PG

Checked CD

BARCO Electronic

66 1268



BLOCK DIAGRAM

NS CORRECTION

+

HORIZONTAL SHIFT

