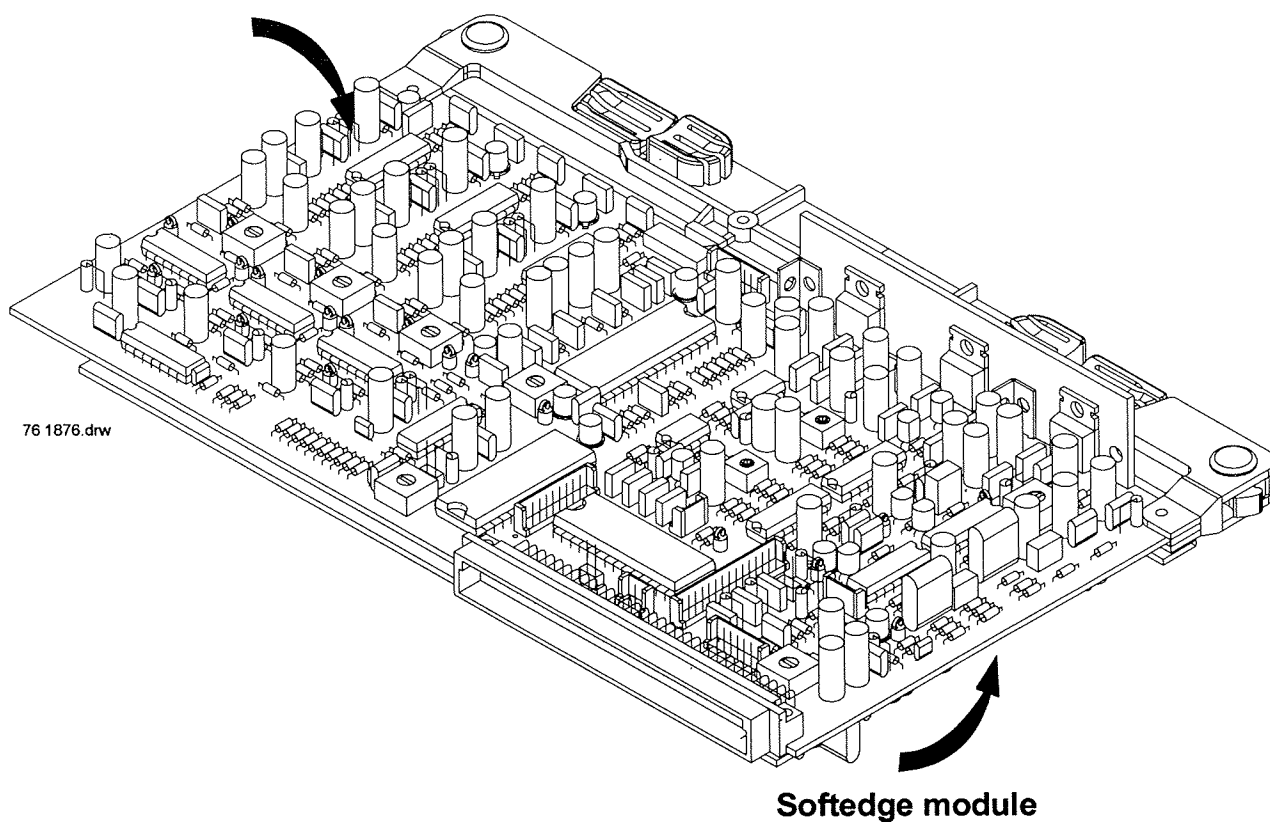
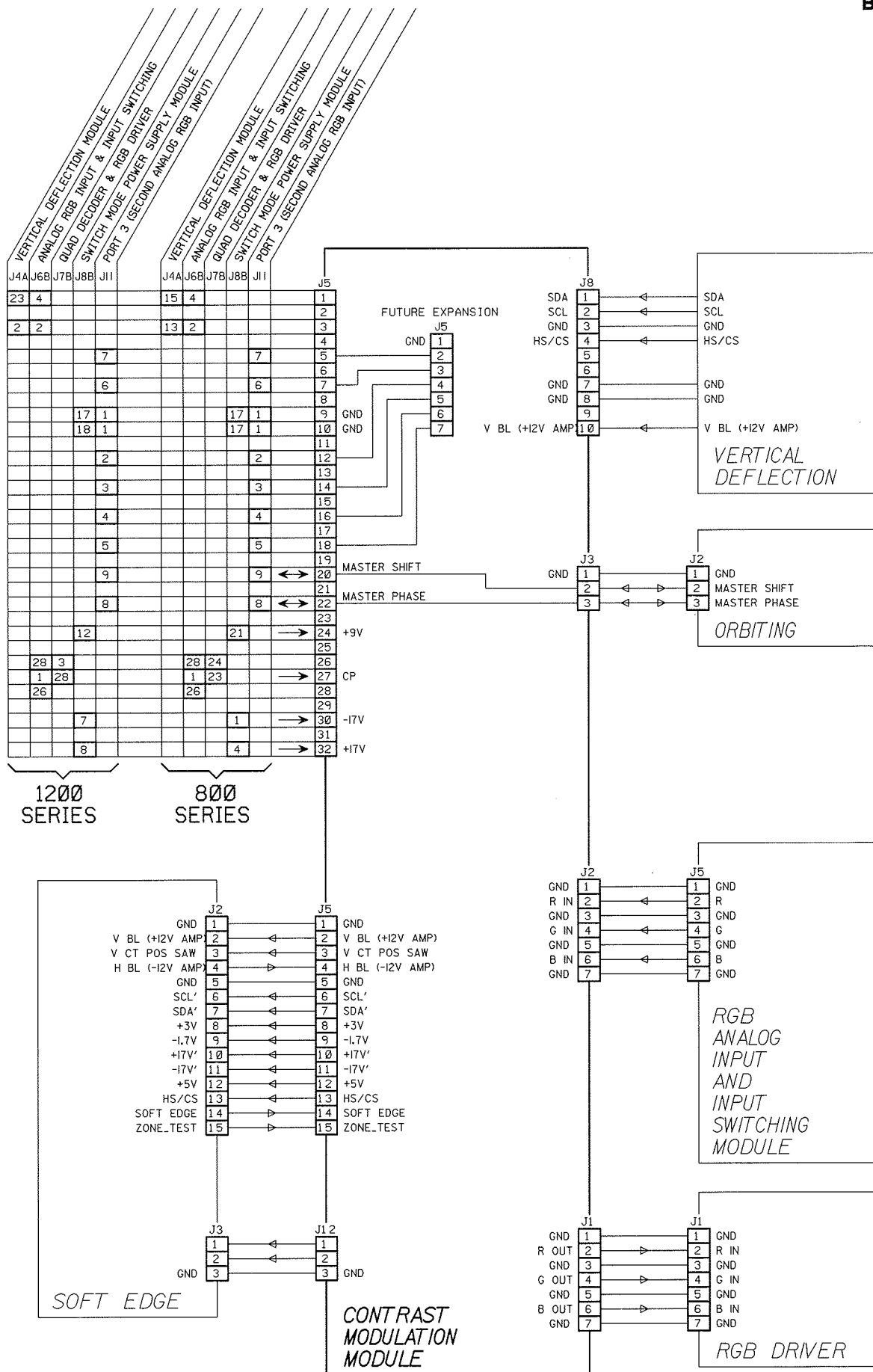


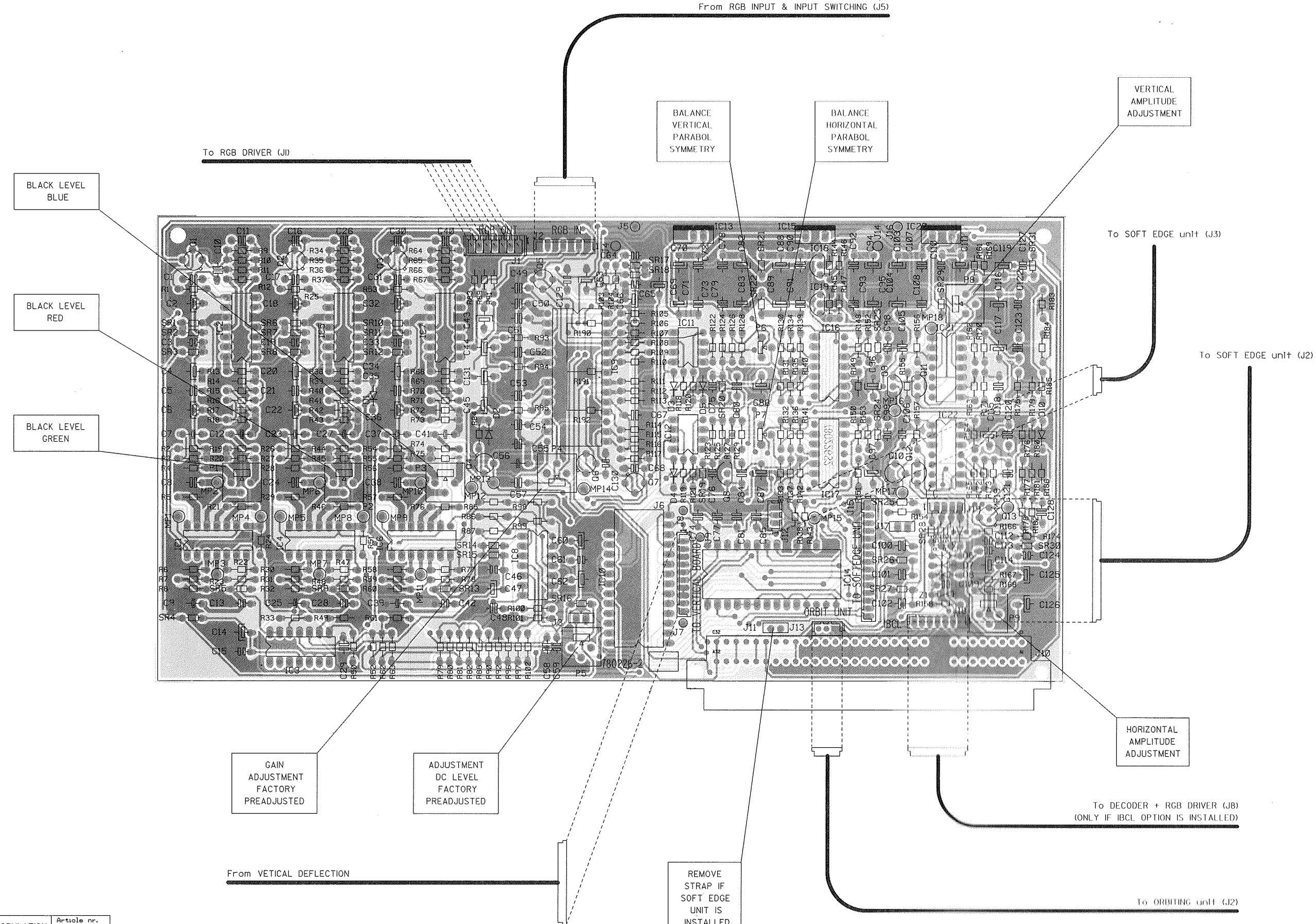
Contrast modulation module





Name CONTRAST MODULATION		Article nr. 76 1876-2
Date 30-11-1993	Drawn JVDY	Checked SSG

BARCO PROJECTION SYSTEMS

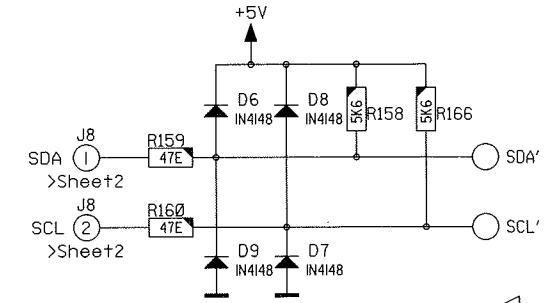
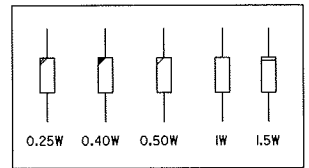
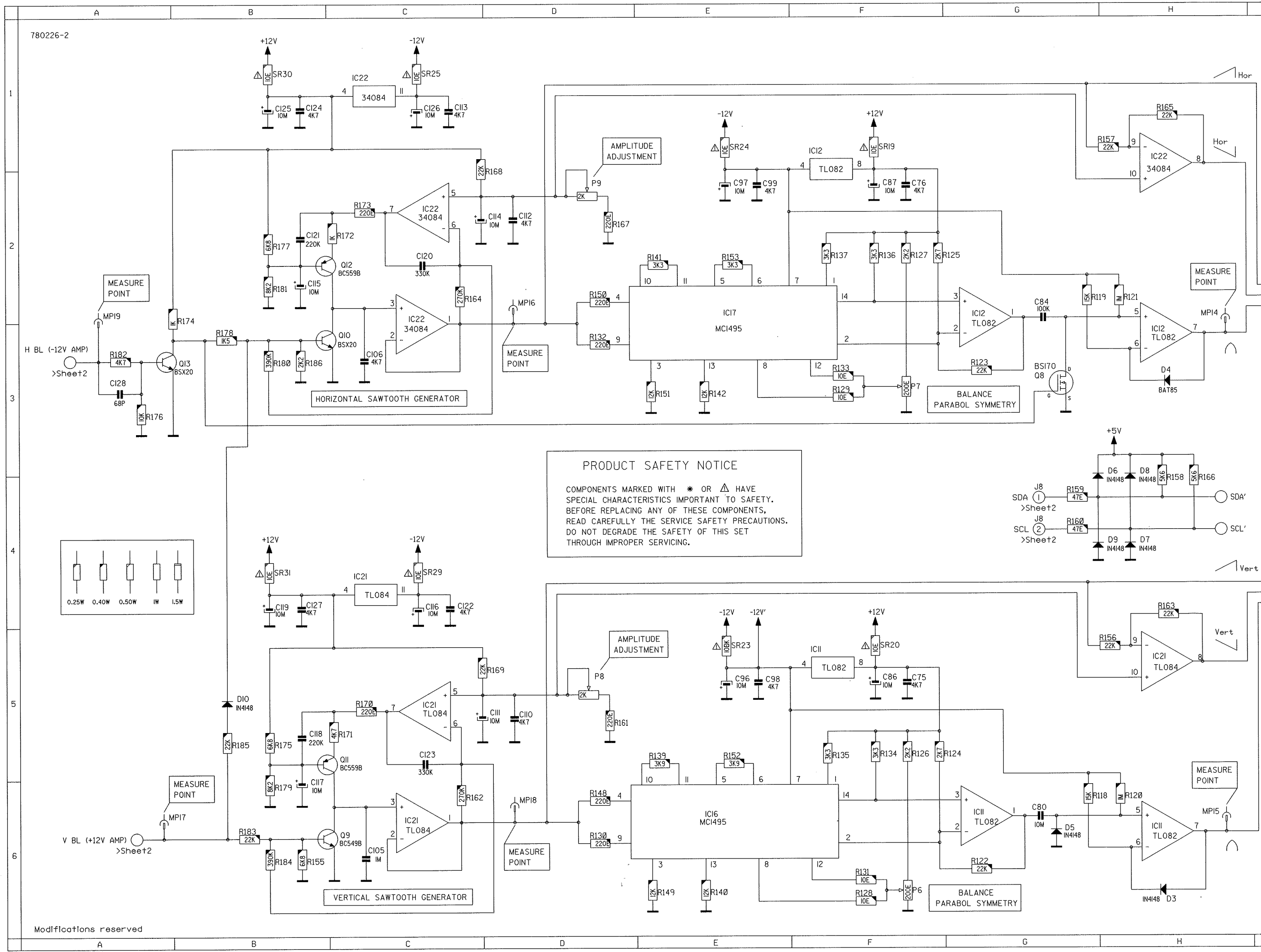


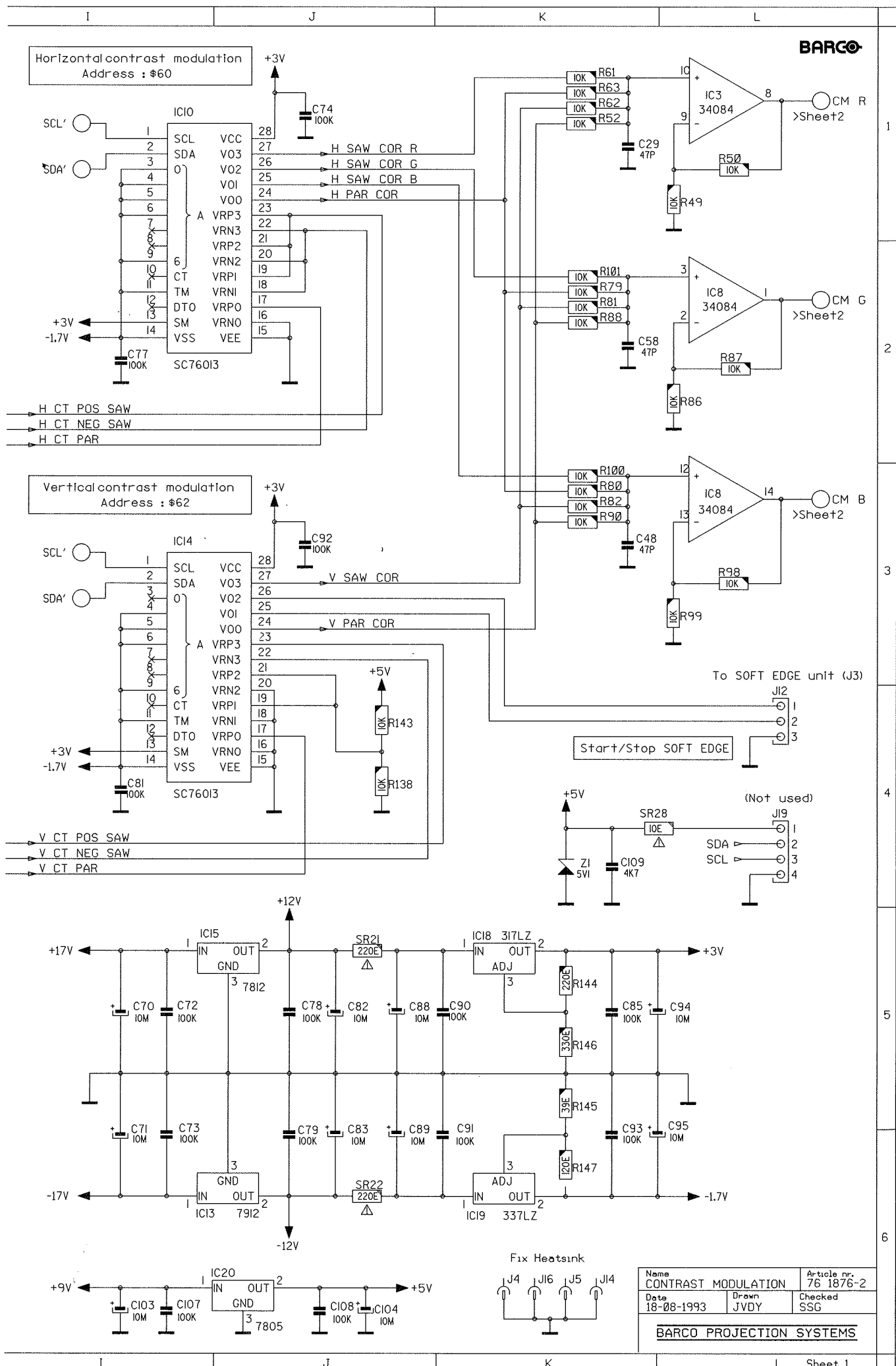
Name		Article nr.
CONTRAST MODULATION		76 1876-2
Date	Drawn	Checked
14-09-1993	JVDY	SSG
BARCO PROJECTION SYSTEMS		

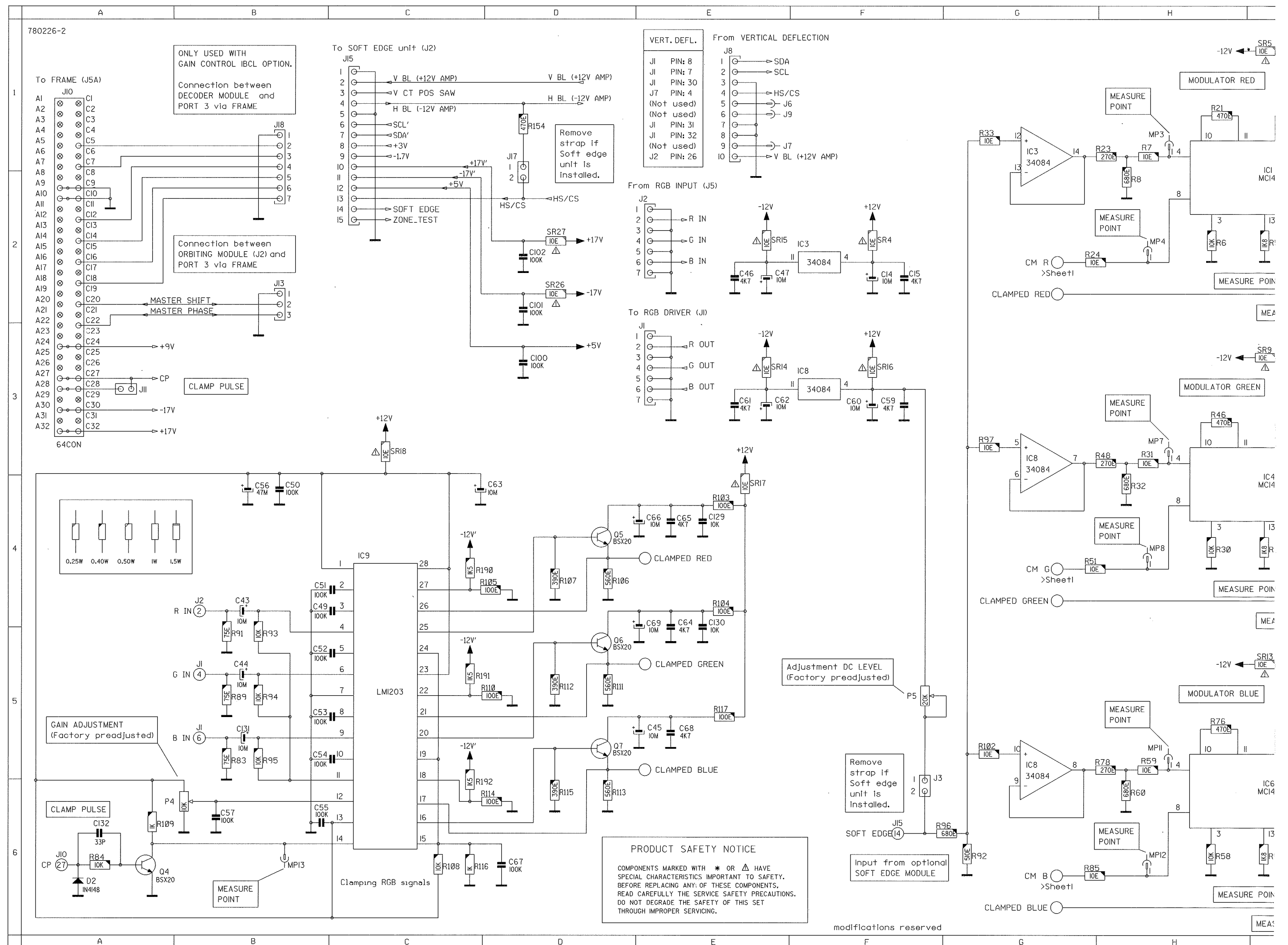
Modifications reserved

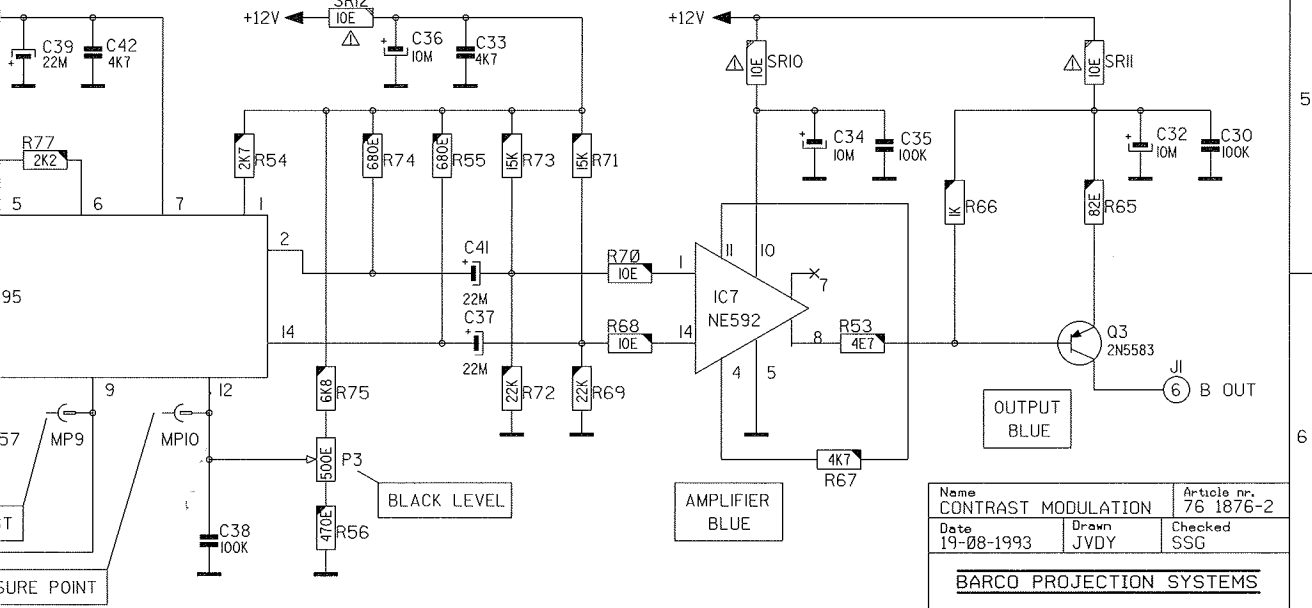
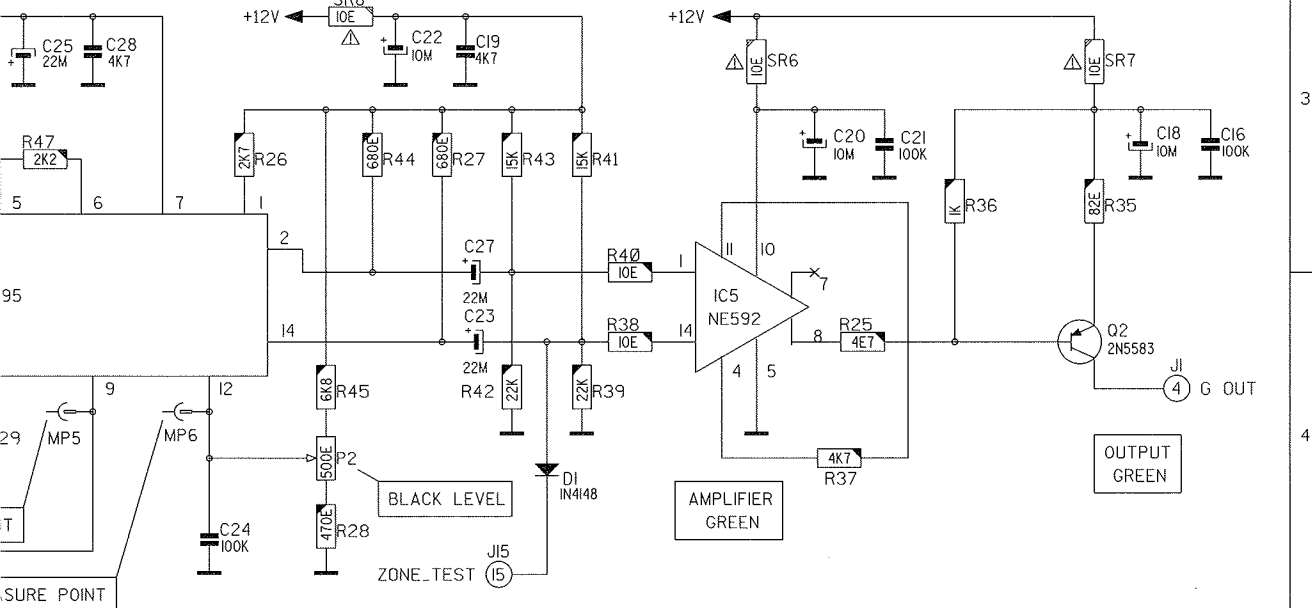
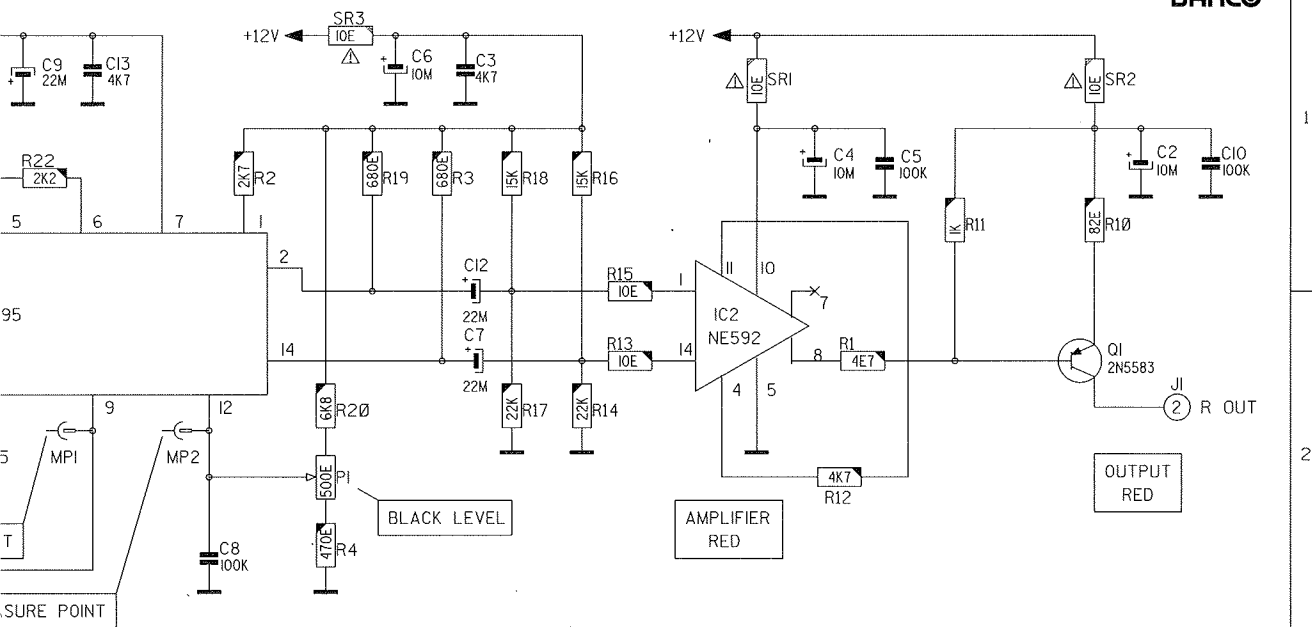
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C3	B 3	D3	E 3	R36	C 2	R167	F 4
C4	B 3	D4	E 4	R37	C 2	R168	F 4
C5	B 3	D5	E 3	R38	C 3	R169	F 2
C6	B 3	D6	F 4	R39	C 3	R170	F 3
C7	B 3	D7	F 4	R40	C 3	R171	F 3
C8	B 4	D8	F 4	R41	C 3	R172	F 4
C9	B 4	D9	F 4	R42	C 3	R173	F 4
C10	B 2	D10	G 3	R43	C 3	R174	G 4
C11	B 2			R44	C 3	R175	G 3
C12	B 3	IC1	B 4	R45	C 3	R176	G 3
C13	B 4	IC2	B 3	R46	C 4	R177	G 4
C14	B 4	IC3	B 5	R47	C 4	R178	G 4
C15	B 5	IC4	B 4	R48	C 4	R179	G 3
C16	B 2	IC5	C 3	R49	C 4	R180	G 3
C17	B 2	IC6	C 4	R50	C 5	R181	G 4
C18	B 3	IC7	C 3	R51	C 4	R182	G 4
C19	B 3	IC8	D 4	R52	C 5	R183	G 3
C20	B 3	IC9	D 3	R53	C 3	R184	G 3
C21	B 3	IC10	D 4	R54	C 3	R185	G 3
C22	B 3	IC11	E 3	R55	C 3	R186	G 4
C23	B 3	IC12	E 3	R56	C 4	R190	D 3
C24	B 4	IC13	E 2	R57	C 4	R191	D 3
C25	B 4	IC14	F 4	R58	C 4	R192	D 3
C26	C 2	IC15	E 2	R59	C 4		
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C28	C 4	IC17	E 4	R61	C 4	SR2	B 3
C29	C 5	IC18	E 2	R62	C 5	SR3	B 3
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C33	C 3	IC22	F 3	R66	C 2	SR7	B 3
C34	C 3			R67	C 2	SR8	B 3
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C36	C 3	J2	D 2	R69	C 3	SR10	C 3
C37	C 3	J3	D 4	R70	C 3	SR11	C 3
C38	C 4	J4	D 2	R71	C 3	SR12	C 3
C39	C 4	J5	D 2	R72	C 3	SR13	C 4
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C41	C 3	J7	E 4	R74	C 3	SR15	C 4
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C45	C 3	J11	E 4	R78	C 4	SR19	E 4
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C49	D 2	J15	F 4	R82	D 5	SR23	F 3
C50	D 3	J16	F 2	R83	D 3	SR24	F 3
C51	D 3	J17	F 4	R84	D 3	SR25	F 4
C52	D 3	J18	F 4	R85	C 4	SR26	F 4
C53	D 3	J19	F 4	R86	C 4	SR27	F 4
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C56	D 3	MP2	B 4	R89	D 3	SR30	G 3
C57	D 4	MP3	B 4	R90	D 5	SR31	G 2
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C59	D 5	MP5	B 4	R92	D 5	Z1	F 4
C60	D 4	MP6	C 4	R93	D 3		
C61	D 4	MP7	C 4	R94	D 3		
C62	D 4	MP8	C 4	R95	D 3		
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C64	D 2	MP10	C 4	R97	D 5		
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C67	E 3	MP13	D 4	R100	D 4		
C68	E 4	MP14	D 4	R101	D 4		
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C72	E 2	MP18	F 3	R105	E 3		
C73	E 3	MP19	F 4	R106	E 3		
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C88	E 2	Q4	D 4	R121	E 4		
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C111	F 2	R13	B 3	R144	F 2		
C112	F 4	R14	B 3	R145	F 3		
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C115	F 3	R17	B 3	R148	F 3		
C116	F 2	R18	B 3	R149	F 3		
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C121	F 4	R23	B 4	R154	F 4		
C122	G 2	R24	B 4	R155	F 3		
C123	G 3	R25	C 3	R156	F 3		
C124	G 4	R26	B 3	R157	F 3		
C125	G 4	R27	B 3	R158	F 4		
C126	G 4	R28	B 4	R159	F 4		
C127	G 2	R29	B 4	R160	F 4		
C128	G 4	R30	B 4	R161	F 2		
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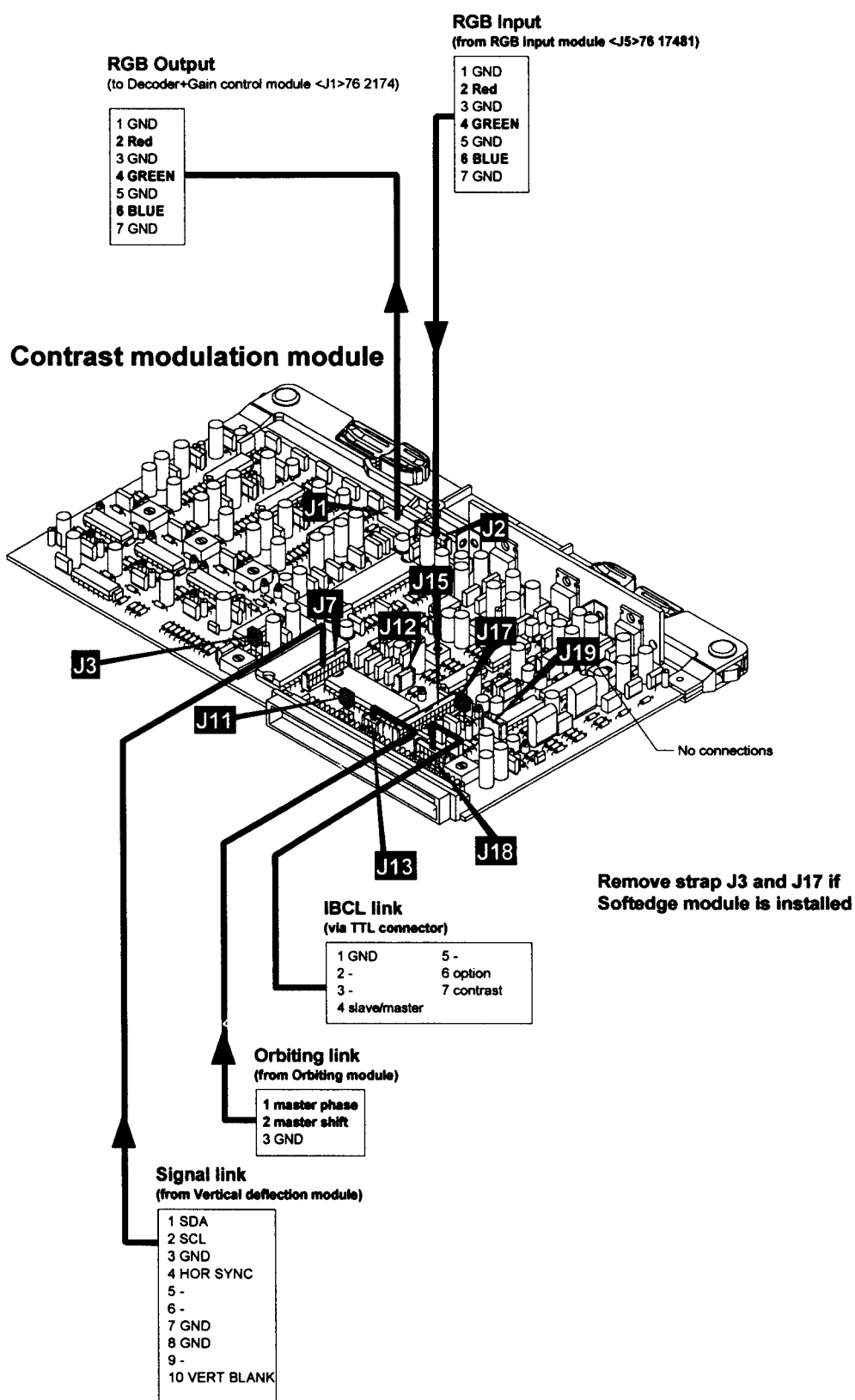








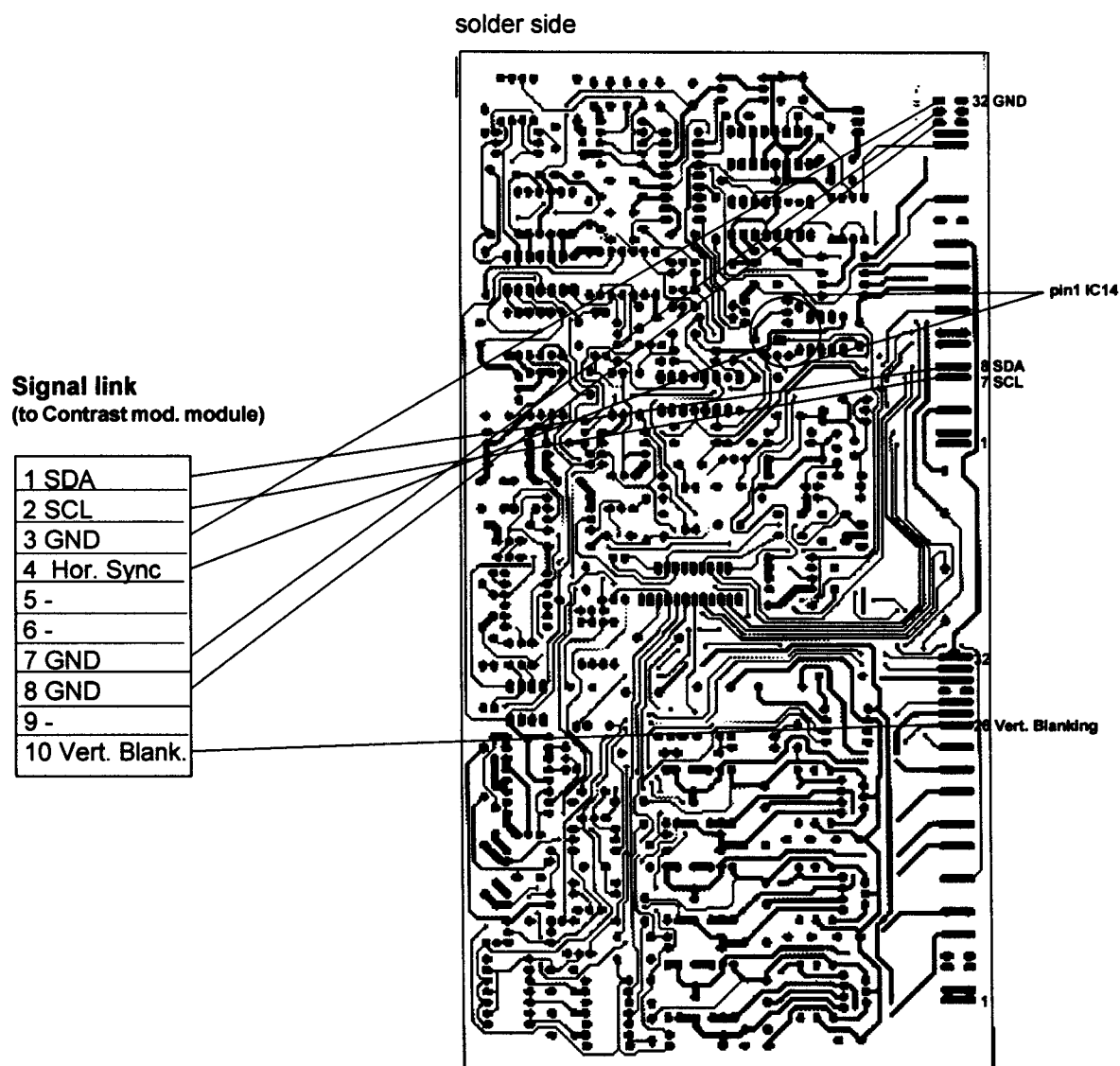
Name CONTRAST MODULATION		Article nr. 76 1876-2	
Date 19-08-1993	Drawn JVVDY	Checked SSG	
BARCO PROJECTION SYSTEMS			



Contrast modulation module

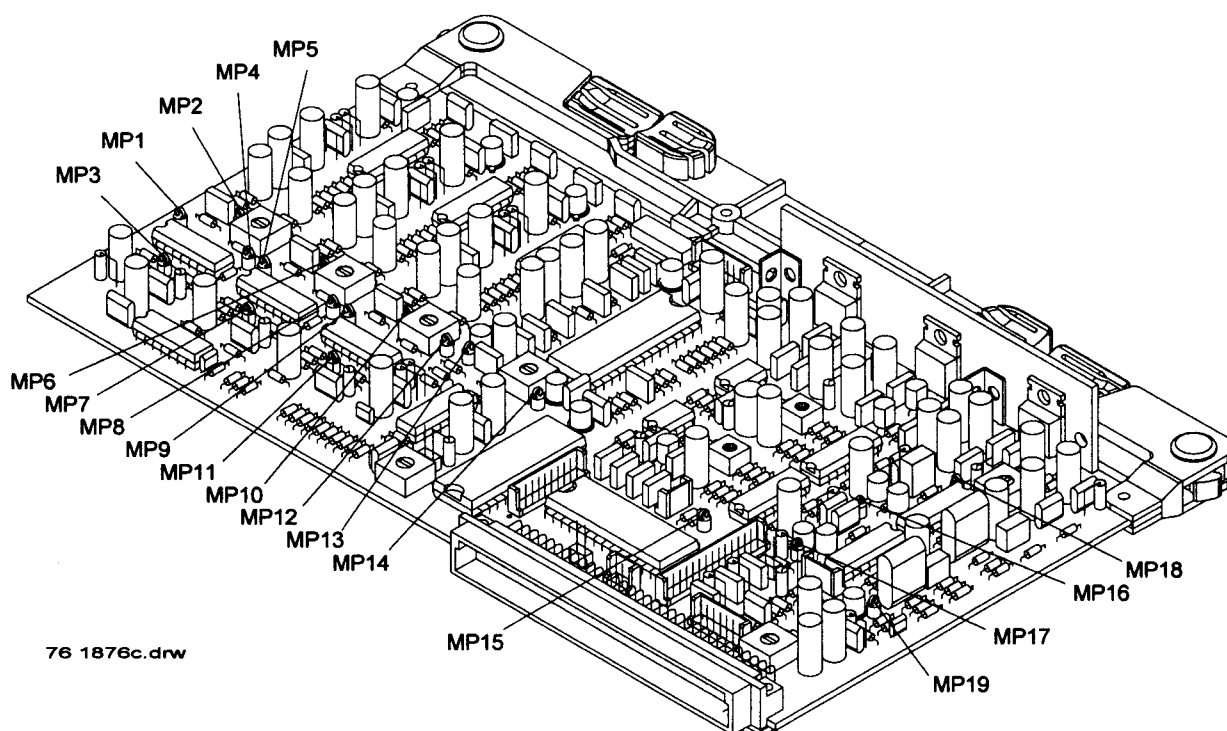
76 1876

Interconnection Vert. Deflection module for 801 series projectors/Contrast modulation module

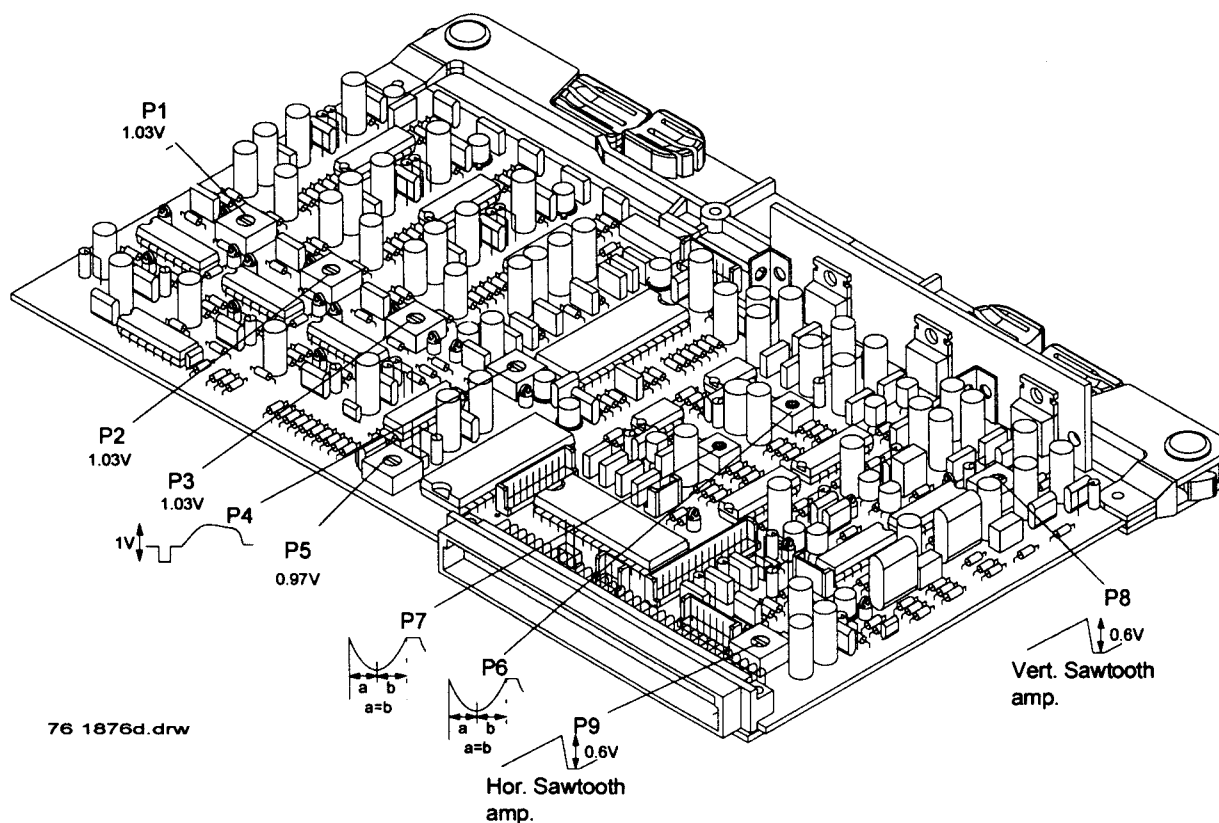


Adjustment procedure

Location of measure points (MP)



Location of adjustment points (P)



Recommended input signal of the projector: a complete white image with a horizontal frequency of 64 KHz.

Adjustment of the Horizontal sawtooth amplitude P9

Connect the oscilloscope to the measurepoint MP16.
Adjust the amplitude of the sawtooth signal with the potentiometer P9 for 0.6Vpp.

Symmetry adjustment of the Horizontal parabola P7

Connect the oscilloscope to the measurepoint MP14.
Adjust the potentiometer P7 for a symmetrical parabola signal.

Adjustment of the Vertical sawtooth amplitude P8

Connect the oscilloscope to the measurepoint MP18.
Adjust the amplitude of the sawtooth signal with the potentiometer P8 for 0.6Vpp.

Symmetry adjustment of the Vertical parabola P6

Connect the oscilloscope to the measurepoint MP15.
Adjust the potentiometer P6 for a symmetrical parabola signal.

Video amplitude adjustment P4

Connect the oscilloscope to the measurepoint MP5.
Adjust the amplitude of the video signal with the potentiometer P4 for 1.0 Vpp.

Bias adjustment P5 (if Softedge module is NOT installed)

Connect a voltmeter to measurepoint MP11.
Adjust the potentiometer P5 for 0.97V DC on MP11

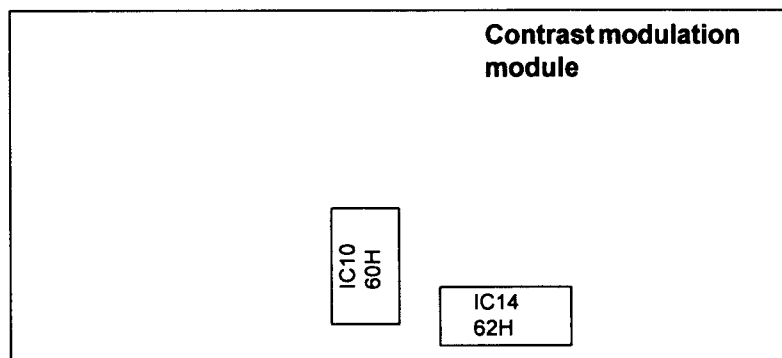
Black level adjustment P1(Red) P2(Green) P3(Blue)

for Red: Connect a voltmeter to measurepoint MP2.
Adjust the potentiometer P1 for 1.03V on measure point MP2.
for Green: Connect a voltmeter to measurepoint MP6.
Adjust the potentiometer P2 for 1.03V on measure point MP6.
for Blue: Connect a voltmeter to measurepoint MP10.
Adjust the potentiometer P3 for 1.03V on measure point MP10.

● Contrast modulation module

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Extra I2C error codes:

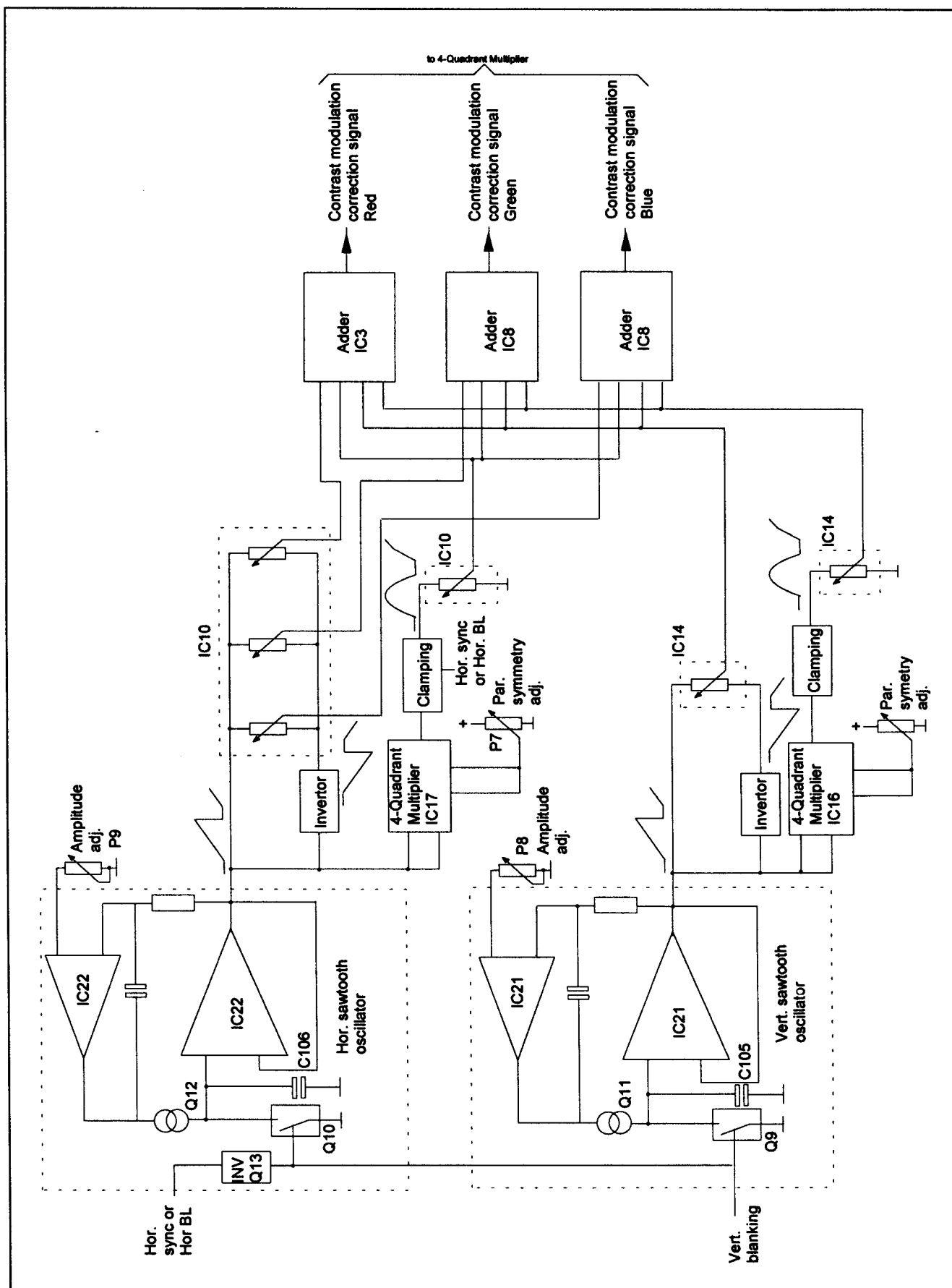


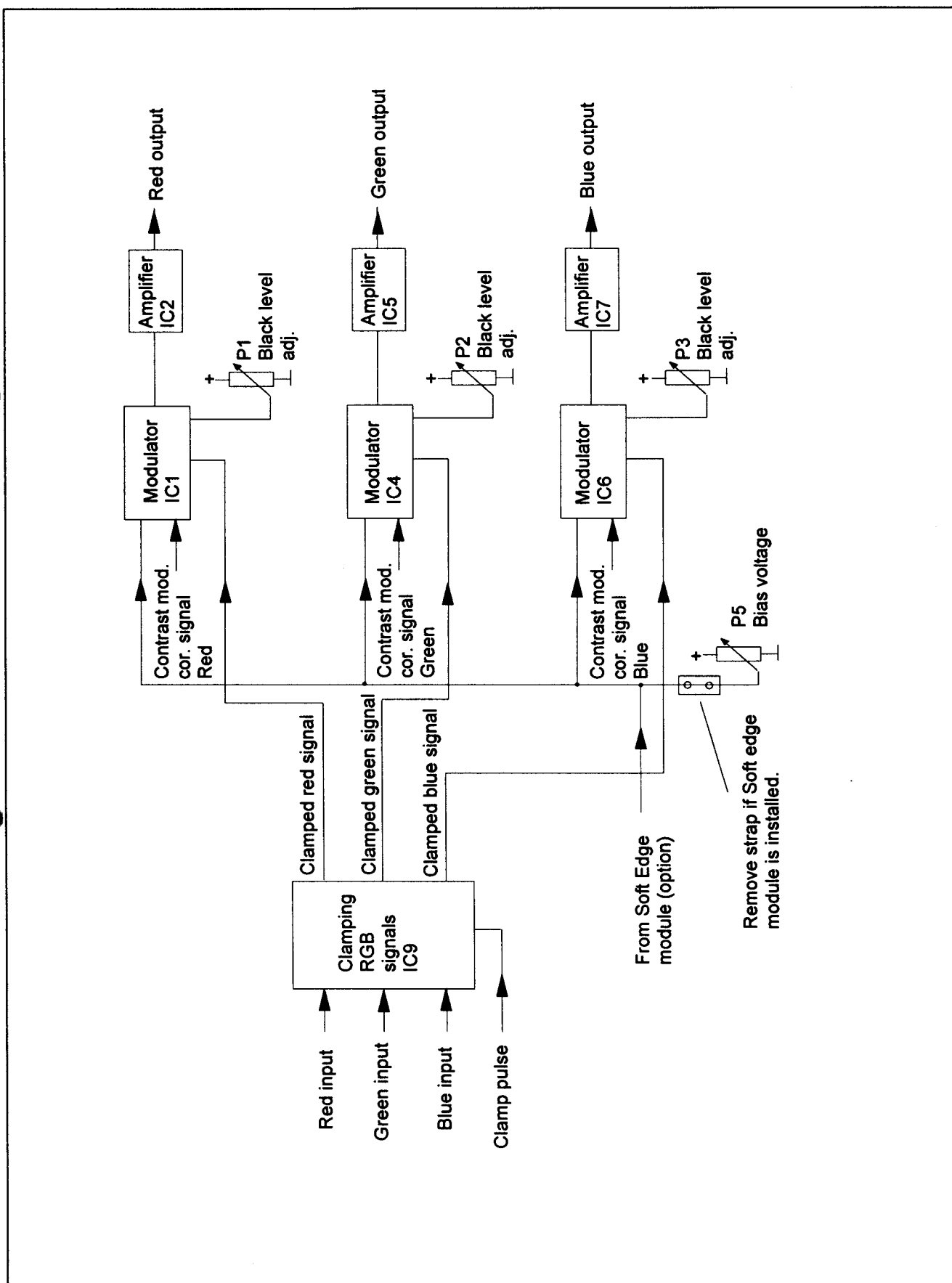
Softedge module

Hex	Ic number	adjustments
5EH	IC12	Bottom soft edge Top Right Left

Contrast modulation module

Hex	Ic number	adjustments
60H	IC10	Left-Right R Horizontal G Horizontal B Horizontal
62H	IC14	Top-Bottom Vertical Stop soft edge Start





Contrast modulation module

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Parts listing 76 1876

ITEM NO.	SIT.	DESCRIPTION
11 1531	C..2	C EL RA 10M M 35E2 85
11 2747	C..3	C CE MI 4N7K 63E2
11 1531	C..4	C EL RA 10M M 35E2 85
11 3724	C..5	C POMERA 100N K 63E2
11 1531	C..6	C EL RA 10M M 35E2 85
11 1510	C..7	C EL RA 22M M 25E2 85
11 3724	C..8	C POMERA 100N K 63E2
11 1510	C..9	C EL RA 22M M 25E2 85
11 3724	C.10	C POMERA 100N K 63E2
11 1510	C.12	C EL RA 22M M 25E2 85
11 2747	C.13	C CE MI 4N7K 63E2
11 1531	C.14	C EL RA 10M M 35E2 85
11 2747	C.15	C CE MI 4N7K 63E2
11 3724	C.16	C POMERA 100N K 63E2
11 1531	C.18	C EL RA 10M M 35E2 85
11 2747	C.19	C CE MI 4N7K 63E2
11 1531	C.20	C EL RA 10M M 35E2 85
11 3724	C.21	C POMERA 100N K 63E2
11 1531	C.22	C EL RA 10M M 35E2 85
11 1510	C.23	C EL RA 22M M 25E2 85
11 3724	C.24	C POMERA 100N K 63E2
11 1510	C.25	C EL RA 22M M 25E2 85
11 1510	C.27	C EL RA 22M M 25E2 85
11 2747	C.28	C CE MI 4N7K 63E2
11 2238	C.29	C NPO MI 47P G 63E2
11 3724	C.30	C POMERA 100N K 63E2
11 1531	C.32	C EL RA 10M M 35E2 85
11 2747	C.33	C CE MI 4N7K 63E2
11 1531	C.34	C EL RA 10M M 35E2 85
11 3724	C.35	C POMERA 100N K 63E2
11 1531	C.36	C EL RA 10M M 35E2 85
11 1510	C.37	C EL RA 22M M 25E2 85
11 3724	C.38	C POMERA 100N K 63E2
11 1510	C.39	C EL RA 22M M 25E2 85
11 1510	C.41	C EL RA 22M M 25E2 85
11 2747	C.42	C CE MI 4N7K 63E2
11 1531	C.43	C EL RA 10M M 35E2 85
11 1531	C.44	C EL RA 10M M 35E2 85
11 1531	C.45	C EL RA 10M M 35E2 85
11 2747	C.46	C CE MI 4N7K 63E2
11 1531	C.47	C EL RA 10M M 35E2 85
11 2238	C.48	C NPO MI 47P G 63E2
11 3724	C.49	C POMERA 100N K 63E2
11 3724	C.50	C POMERA 100N K 63E2
11 3724	C.51	C POMERA 100N K 63E2
11 3724	C.52	C POMERA 100N K 63E2
11 3724	C.53	C POMERA 100N K 63E2
11 3724	C.54	C POMERA 100N K 63E2
11 3724	C.55	C POMERA 100N K 63E2
11 1476	C.56	C EL RA 47M M 25E2 85
11 3724	C.57	C POMERA 100N K 63E2
11 2238	C.58	C NPO MI 47P G 63E2
11 2747	C.59	C CE MI 4N7K 63E2
11 1531	C.60	C EL RA 10M M 35E2 85
11 2747	C.61	C CE MI 4N7K 63E2
11 1531	C.62	C EL RA 10M M 35E2 85
11 1531	C.63	C EL RA 10M M 35E2 85
11 2747	C.64	C CE MI 4N7K 63E2
11 2747	C.65	C CE MI 4N7K 63E2
11 1531	C.66	C EL RA 10M M 35E2 85
11 3724	C.67	C POMERA 100N K 63E2
11 2747	C.68	C CE MI 4N7K 63E2
11 1531	C.69	C EL RA 10M M 35E2 85
11 1531	C.70	C EL RA 10M M 35E2 85
11 1531	C.71	C EL RA 10M M 35E2 85

ITEM NO.	SIT.	DESCRIPTION
11 3724	C.72	C POMERA 100N K 63E2
11 3724	C.73	C POMERA 100N K 63E2
11 3724	C.74	C POMERA 100N K 63E2
11 2747	C.75	C CE MI 4N7K 63E2
11 2747	C.76	C CE MI 4N7K 63E2
11 3724	C.77	C POMERA 100N K 63E2
11 3724	C.78	C POMERA 100N K 63E2
11 3724	C.79	C POMERA 100N K 63E2
11 1678	C.80	C EL BRA 10M M 25E2 85
11 3724	C.81	C POMERA 100N K 63E2
11 1531	C.82	C EL RA 10M M 35E2 85
11 1531	C.83	C EL RA 10M M 35E2 85
11 3724	C.84	C POMERA 100N K 63E2
11 3724	C.85	C POMERA 100N K 63E2
11 1531	C.86	C EL RA 10M M 35E2 85
11 1531	C.87	C EL RA 10M M 35E2 85
11 1531	C.88	C EL RA 10M M 35E2 85
11 1531	C.89	C EL RA 10M M 35E2 85
11 3724	C.90	C POMERA 100N K 63E2
11 3724	C.91	C POMERA 100N K 63E2
11 3724	C.92	C POMERA 100N K 63E2
11 3724	C.93	C POMERA 100N K 63E2
11 1531	C.94	C EL RA 10M M 35E2 85
11 1531	C.95	C EL RA 10M M 35E2 85
11 1531	C.96	C EL RA 10M M 35E2 85
11 1531	C.97	C EL RA 10M M 35E2 85
11 2747	C.98	C CE MI 4N7K 63E2
11 2747	C.99	C CE MI 4N7K 63E2
11 3724	C100	C POMERA 100N K 63E2
11 3724	C101	C POMERA 100N K 63E2
11 3724	C102	C POMERA 100N K 63E2
11 1531	C103	C EL RA 10M M 35E2 85
11 1531	C104	C EL RA 10M M 35E2 85
11 4090	C105	C POMERA 1M M 63E2
11 2747	C106	C CE MI 4N7K 63E2
11 3724	C107	C POMERA 100N K 63E2
11 3724	C108	C POMERA 100N K 63E2
11 2747	C109	C CE MI 4N7K 63E2
11 2747	C110	C CE MI 4N7K 63E2
11 1531	C111	C EL RA 10M M 35E2 85
11 2747	C112	C CE MI 4N7K 63E2
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11 3728	C118	C POMERA 220N K 63E2
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11 3730	C120	C POMERA 330N K 63E2
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11 2747	C122	C CE MI 4N7K 63E2
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11 2747	C127	C CE MI 4N7K 63E2
11 2240	C128	C NPO MI 68P J 63E2
11 2763	C129	C CE MI 10N U 63E2
11 2763	C130	C CE MI 10N U 63E2
11 2236	C130	C NPO MI 33P G 63E2
11 1531	C131	C EL RA 10M M 35E2 85
13 1621	D..1	D S 1N4148 075150 DO35
13 1621	D..2	D S 1N4148 075150 DO35
13 1621	D..3	D S 1N4148 075150 DO35

13 16361	D..4	D Y BAT85	030200 DO35	10 7004	P..6	R TCE H200E M 0W5 S7 TS3362P
13 1621	D..5	D S 1N4148	075150 DO35	10 7004	P..7	R TCE H200E M 0W5 S7 TS3362P
13 1621	D..6	D S 1N4148	075150 DO35	10 6727	P..8	R TCE H 2K K 0W5 S10TS3386P
13 1621	D..7	D S 1N4148	075150 DO35	10 6727	P..9	R TCE H 2K K 0W5 S10TS3386P
13 1621	D..8	D S 1N4148	075150 DO35			
13 1621	D..9	D S 1N4148	075150 DO35	78 0226	PC..	PCD PJ49 CTRS_MOD
13 1621	D.10	D S 1N4148	075150 DO35			
13 4222	I..1	U 1495 MC	DIL14 P	13 2911	Q..1	Q 2N5583 P SS TO39 030A5
13 4221	I..2	U 592 NE	DIL14 PVID_A	13 2911	Q..2	Q 2N5583 P SS TO39 030A5
13 4125	I..3	U 34084	DIP14 POPAMP	13 2911	Q..3	Q 2N5583 P SS TO39 030A5
13 4222	I..4	U 1495 MC	DIL14 P	13 1491	Q..4	Q BSX20 .2369 N SS TO18 015A2
13 4221	I..5	U 592 NE	DIL14 PVID_A	13 1491	Q..5	Q BSX20 .2369 N SS TO18 015A2
13 4222	I..6	U 1495 MC	DIL14 P	13 1491	Q..6	Q BSX20 .2369 N SS TO18 015A2
13 4221	I..7	U 592 NE	DIL14 PVID_A	13 1491	Q..7	Q BSX20 .2369 N SS TO18 015A2
13 4125	I..8	U 34084	DIP14 POPAMP	13 2910	Q..8	Q BS170 FN SS TO92 060A5
13 2826	I..9	U 1203 LM	DIP28 PRGB	13 14295	Q..9	Q BC549B N SS TO92 030A1
13 2833	I.10	U 76013 SC	DIP28 PD_POT	13 1491	Q.10	Q BSX20 .2369 N SS TO18 015A2
13 4124	I.11	U 082 TL	DIP8 POPAMP	13 14181	Q.11	Q BC559B P SS TO92 030A1
13 4124	I.12	U 082 TL	DIP8 POPAMP	13 14181	Q.12	Q BC559B P SS TO92 030A1
13 4016	I.13	U 7912	TO220 PSTAB	13 1491	Q.13	Q BSX20 .2369 N SS TO18 015A2
13 2833	I.14	U 76013 SC	DIP28 PD_POT	10 1508	R..1	R MF H 4E7 F 0W4 E2
13 4002	I.15	U 7812	TO220 PSTAB	10 1541	R..2	R MF H 2K7 F 0W4 E2
13 4222	I.16	U 1495 MC	DIL14 P	10 1534	R..3	R MF H680E F 0W4 E2
13 4222	I.17	U 1495 MC	DIL14 P	10 1532	R..4	R MF H470E F 0W4 E2
13 4028	I.18	U 317LZ	TO92 PSTAB	10 1539	R..5	R MF H 1K8 F 0W4 E2
13 4029	I.19	U 337LZ	TO92 PSTAB	10 1548	R..6	R MF H 10K F 0W4 E2
13 4001	I.20	U 7805	TO220 PSTAB	10 1512	R..7	R MF H 10E F 0W4 E2
13 4113	I.21	U 084 TL	DIP14 POPAMP	10 1534	R..8	R MF H680E F 0W4 E2
13 4125	I.22	U 34084	DIP14 POPAMP	10 1523	R.10	R MF H 82E F 0W4 E2
31 3927	J..2	J CT MBT P 7 M2SN		10 1536	R.11	R MF H 1K F 0W4 E2
31 3276	J..3	J MD1 MBT P10 R1SN		10 1544	R.12	R MF H 4K7 F 0W4 E2
31 3930	J..8	J CT MBT P10 M2SN		10 1512	R.13	R MF H 10E F 0W4 E2
31 3531	J.10	J EUR2C MBS P64 E1 C2S P		10 1552	R.14	R MF H 22K F 0W4 E2
31 3276	J.11	J MD1 MBT P10 R1SN		10 1512	R.15	R MF H 10E F 0W4 E2
31 3923	J.12	J CT MBT P 3 M2SN		10 1550	R.16	R MF H 15K F 0W4 E2
31 3923	J.13	J CT MBT P 3 M2SN		10 1552	R.17	R MF H 22K F 0W4 E2
31 3935	J.15	J CT MBT P15 M2SN		10 1550	R.18	R MF H 15K F 0W4 E2
31 3276	J.17	J MD1 MBT P10 R1SN		10 1534	R.19	R MF H680E F 0W4 E2
31 3927	J.18	J CT MBT P 7 M2SN		10 1546	R.20	R MF H 6K8 F 0W4 E2
31 3924	J.19	J CT MBT P 4 M2SN		10 1532	R.21	R MF H470E F 0W4 E2
31 3729	MP.1	J PIN MBT D 2 TESTEYE		10 1540	R.22	R MF H 2K2 F 0W4 E2
31 3729	MP.2	J PIN MBT D 2 TESTEYE		10 1529	R.23	R MF H270E F 0W4 E2
31 3729	MP.3	J PIN MBT D 2 TESTEYE		10 1512	R.24	R MF H 10E F 0W4 E2
31 3729	MP.4	J PIN MBT D 2 TESTEYE		10 1508	R.25	R MF H 4E7 F 0W4 E2
31 3729	MP.5	J PIN MBT D 2 TESTEYE		10 1541	R.26	R MF H 2K7 F 0W4 E2
31 3729	MP.6	J PIN MBT D 2 TESTEYE		10 1534	R.27	R MF H680E F 0W4 E2
31 3729	MP.7	J PIN MBT D 2 TESTEYE		10 1532	R.28	R MF H470E F 0W4 E2
31 3729	MP.8	J PIN MBT D 2 TESTEYE		10 1539	R.29	R MF H 1K8 F 0W4 E2
31 3729	MP.9	J PIN MBT D 2 TESTEYE		10 1548	R.30	R MF H 10K F 0W4 E2
31 3729	MP.10	J PIN MBT D 2 TESTEYE		10 1512	R.31	R MF H 10E F 0W4 E2
31 3729	MP.11	J PIN MBT D 2 TESTEYE		10 1534	R.32	R MF H680E F 0W4 E2
31 3729	MP.12	J PIN MBT D 2 TESTEYE		10 1512	R.33	R MF H 10E F 0W4 E2
31 3729	MP.13	J PIN MBT D 2 TESTEYE		10 1523	R.35	R MF H 82E F 0W4 E2
31 3729	MP.14	J PIN MBT D 2 TESTEYE		10 1536	R.36	R MF H 1K F 0W4 E2
31 3729	MP.15	J PIN MBT D 2 TESTEYE		10 1544	R.37	R MF H 4K7 F 0W4 E2
31 3729	MP.16	J PIN MBT D 2 TESTEYE		10 1512	R.38	R MF H 10E F 0W4 E2
31 3729	MP.17	J PIN MBT D 2 TESTEYE		10 1552	R.39	R MF H 22K F 0W4 E2
31 3729	MP.18	J PIN MBT D 2 TESTEYE		10 1512	R.40	R MF H 10E F 0W4 E2
31 3729	MP.19	J PIN MBT D 2 TESTEYE		10 1550	R.41	R MF H 15K F 0W4 E2
10 6725	P..1	R TCE H500E K 0W5 S10TS3386P		10 1552	R.42	R MF H 22K F 0W4 E2
10 6725	P..2	R TCE H500E K 0W5 S10TS3386P		10 1550	R.43	R MF H 15K F 0W4 E2
10 6725	P..3	R TCE H500E K 0W5 S10TS3386P		10 1534	R.44	R MF H680E F 0W4 E2
10 6729	P..4	R TCE H 10K K 0W5 S10TS3386P		10 1546	R.45	R MF H 6K8 F 0W4 E2
10 6730	P..5	R TCE H 20K K 0W5 S10TS3386P		10 1532	R.46	R MF H470E F 0W4 E2
				10 1540	R.47	R MF H 2K2 F 0W4 E2
				10 1529	R.48	R MF H270E F 0W4 E2
				10 1548	R.49	R MF H 10K F 0W4 E2

10 1548 R.50 R MF H 10K F 0W4 E2
 10 1512 R.51 R MF H 10E F 0W4 E2
 10 1548 R.52 R MF H 10K F 0W4 E2
 10 1508 R.53 R MF H 4E7 F 0W4 E2
 10 1541 R.54 R MF H 2K7 F 0W4 E2
 10 1534 R.55 R MF H680E F 0W4 E2
 10 1532 R.56 R MF H470E F 0W4 E2
 10 1539 R.57 R MF H 1K8 F 0W4 E2
 10 1548 R.58 R MF H 10K F 0W4 E2
 10 1512 R.59 R MF H 10E F 0W4 E2
 10 1534 R.60 R MF H680E F 0W4 E2
 10 1548 R.61 R MF H 10K F 0W4 E2
 10 1548 R.62 R MF H 10K F 0W4 E2
 10 1548 R.63 R MF H 10K F 0W4 E2
 10 1523 R.65 R MF H 82E F 0W4 E2
 10 1536 R.66 R MF H 1K F 0W4 E2
 10 1544 R.67 R MF H 4K7 F 0W4 E2
 10 1512 R.68 R MF H 10E F 0W4 E2
 10 1552 R.69 R MF H 22K F 0W4 E2
 10 1512 R.70 R MF H 10E F 0W4 E2
 10 1550 R.71 R MF H 15K F 0W4 E2
 10 1552 R.72 R MF H 22K F 0W4 E2
 10 1550 R.73 R MF H 15K F 0W4 E2
 10 1534 R.74 R MF H680E F 0W4 E2
 10 1546 R.75 R MF H 6K8 F 0W4 E2
 10 1532 R.76 R MF H470E F 0W4 E2
 10 1540 R.77 R MF H 2K2 F 0W4 E2
 10 1529 R.78 R MF H270E F 0W4 E2
 10 1548 R.79 R MF H 10K F 0W4 E2
 10 1548 R.80 R MF H 10K F 0W4 E2
 10 1548 R.81 R MF H 10K F 0W4 E2
 10 1548 R.82 R MF H 10K F 0W4 E2
 10 15231 R.83 R MF H 75E F 0W4 E2
 10 1548 R.84 R MF H 10K F 0W4 E2
 10 1512 R.85 R MF H 10E F 0W4 E2
 10 1548 R.86 R MF H 10K F 0W4 E2
 10 1548 R.87 R MF H 10K F 0W4 E2
 10 1548 R.88 R MF H 10K F 0W4 E2
 10 15231 R.89 R MF H 75E F 0W4 E2
 10 1548 R.90 R MF H 10K F 0W4 E2
 10 15231 R.91 R MF H 75E F 0W4 E2
 10 15331 R.92 R MF H510E F 0W4 E2
 10 1548 R.93 R MF H 10K F 0W4 E2
 10 1548 R.94 R MF H 10K F 0W4 E2
 10 1548 R.95 R MF H 10K F 0W4 E2
 10 1534 R.96 R MF H680E F 0W4 E2
 10 1512 R.97 R MF H 10E F 0W4 E2
 10 1548 R.98 R MF H 10K F 0W4 E2
 10 1548 R.99 R MF H 10K F 0W4 E2
 10 1548 R100 R MF H 10K F 0W4 E2
 10 1548 R101 R MF H 10K F 0W4 E2
 10 1512 R102 R MF H 10E F 0W4 E2
 10 1524 R103 R MF H100E F 0W4 E2
 10 1524 R104 R MF H100E F 0W4 E2
 10 1524 R105 R MF H100E F 0W4 E2
 10 1533 R106 R MF H560E F 0W4 E2
 10 1531 R107 R MF H390E F 0W4 E2
 10 1548 R108 R MF H 10K F 0W4 E2
 10 1536 R109 R MF H 1K F 0W4 E2
 10 1524 R110 R MF H100E F 0W4 E2
 10 1533 R111 R MF H560E F 0W4 E2
 10 1531 R112 R MF H390E F 0W4 E2
 10 1533 R113 R MF H560E F 0W4 E2
 10 1524 R114 R MF H100E F 0W4 E2
 10 1531 R115 R MF H390E F 0W4 E2
 10 1536 R116 R MF H 1K F 0W4 E2
 10 1524 R117 R MF H100E F 0W4 E2
 10 1550 R118 R MF H 15K F 0W4 E2

10 1550 R119 R MF H 15K F 0W4 E2
 10 1572 R120 R MF H 1M F 0W4 E2
 10 1572 R121 R MF H 1M F 0W4 E2
 10 1552 R122 R MF H 22K F 0W4 E2
 10 1552 R123 R MF H 22K F 0W4 E2
 10 1541 R124 R MF H 2K7 F 0W4 E2
 10 1541 R125 R MF H 2K7 F 0W4 E2
 10 1540 R126 R MF H 2K2 F 0W4 E2
 10 1540 R127 R MF H 2K2 F 0W4 E2
 10 1512 R128 R MF H 10E F 0W4 E2
 10 1512 R129 R MF H 10E F 0W4 E2
 10 1528 R130 R MF H220E F 0W4 E2
 10 1512 R131 R MF H 10E F 0W4 E2
 10 1528 R132 R MF H220E F 0W4 E2
 10 1512 R133 R MF H 10E F 0W4 E2
 10 1542 R134 R MF H 3K3 F 0W4 E2
 10 1542 R135 R MF H 3K3 F 0W4 E2
 10 1542 R136 R MF H 3K3 F 0W4 E2
 10 1542 R137 R MF H 3K3 F 0W4 E2
 10 1548 R138 R MF H 10K F 0W4 E2
 10 1543 R139 R MF H 3K9 F 0W4 E2
 10 1549 R140 R MF H 12K F 0W4 E2
 10 1542 R141 R MF H 3K3 F 0W4 E2
 10 1549 R142 R MF H 12K F 0W4 E2
 10 1548 R143 R MF H 10K F 0W4 E2
 10 1528 R144 R MF H220E F 0W4 E2
 10 1519 R145 R MF H 39E F 0W4 E2
 10 1530 R146 R MF H330E F 0W4 E2
 10 1525 R147 R MF H120E F 0W4 E2
 10 1528 R148 R MF H220E F 0W4 E2
 10 1549 R149 R MF H 12K F 0W4 E2
 10 1528 R150 R MF H220E F 0W4 E2
 10 1549 R151 R MF H 12K F 0W4 E2
 10 1543 R152 R MF H 3K9 F 0W4 E2
 10 1542 R153 R MF H 3K3 F 0W4 E2
 10 1532 R154 R MF H470E F 0W4 E2
 10 1546 R155 R MF H 6K8 F 0W4 E2
 10 1552 R156 R MF H 22K F 0W4 E2
 10 1552 R157 R MF H 22K F 0W4 E2
 10 1520 R159 R MF H 47E F 0W4 E2
 10 1520 R160 R MF H 47E F 0W4 E2
 10 1528 R161 R MF H220E F 0W4 E2
 10 1565 R162 R MF H270K F 0W4 E2
 10 1552 R163 R MF H 22K F 0W4 E2
 10 1565 R164 R MF H270K F 0W4 E2
 10 1552 R165 R MF H 22K F 0W4 E2
 10 1528 R167 R MF H220E F 0W4 E2
 10 1552 R168 R MF H 22K F 0W4 E2
 10 1552 R169 R MF H 22K F 0W4 E2
 10 1528 R170 R MF H220E F 0W4 E2
 10 1544 R171 R MF H 4K7 F 0W4 E2
 10 1536 R172 R MF H 1K F 0W4 E2
 10 1528 R173 R MF H220E F 0W4 E2
 10 1536 R174 R MF H 1K F 0W4 E2
 10 1546 R175 R MF H 6K8 F 0W4 E2
 10 1548 R176 R MF H 10K F 0W4 E2
 10 1546 R177 R MF H 6K8 F 0W4 E2
 10 1538 R178 R MF H 1K5 F 0W4 E2
 10 1547 R179 R MF H 8K2 F 0W4 E2
 10 1567 R180 R MF H390K F 0W4 E2
 10 1547 R181 R MF H 8K2 F 0W4 E2
 10 1544 R182 R MF H 4K7 F 0W4 E2
 10 1552 R183 R MF H 22K F 0W4 E2
 10 1567 R184 R MF H390K F 0W4 E2
 10 1552 R185 R MF H 22K F 0W4 E2
 10 1540 R186 R MF H 2K2 F 0W4 E2
 10 1538 R190 R MF H 1K5 F 0W4 E2
 10 1538 R191 R MF H 1K5 F 0W4 E2

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10 1538 R192 R MF H 1K5 F 0W4 E2

10 01129 SR.1 R CFFV 10E J 0W25 E2
10 01129 SR.2 R CFFV 10E J 0W25 E2
10 01129 SR.3 R CFFV 10E J 0W25 E2
10 01129 SR.4 R CFFV 10E J 0W25 E2
10 01129 SR.5 R CFFV 10E J 0W25 E2
10 01129 SR.6 R CFFV 10E J 0W25 E2
10 01129 SR.7 R CFFV 10E J 0W25 E2
10 01129 SR.8 R CFFV 10E J 0W25 E2
10 01129 SR.9 R CFFV 10E J 0W25 E2
10 01129 SR10 R CFFV 10E J 0W25 E2
10 01129 SR11 R CFFV 10E J 0W25 E2
10 01129 SR12 R CFFV 10E J 0W25 E2
10 01129 SR13 R CFFV 10E J 0W25 E2
10 01129 SR14 R CFFV 10E J 0W25 E2
10 01129 SR15 R CFFV 10E J 0W25 E2
10 01129 SR16 R CFFV 10E J 0W25 E2
10 01129 SR17 R CFFV 10E J 0W25 E2
10 01129 SR18 R CFFV 10E J 0W25 E2

10 01129 SR19 R CFFV 10E J 0W25 E2
10 01129 SR20 R CFFV 10E J 0W25 E2
10 01289 SR21 R CFFV220E J 0W25 E2 SKS2
10 01289 SR22 R CFFV220E J 0W25 E2 SKS2
10 01129 SR23 R CFFV 10E J 0W25 E2
10 01129 SR24 R CFFV 10E J 0W25 E2
10 01129 SR24 R CFFV 10E J 0W25 E2
10 01129 SR25 R CFFV 10E J 0W25 E2
10 01129 SR28 R CFFV 10E J 0W25 E2
10 01129 SR29 R CFFV 10E J 0W25 E2
10 01129 SR30 R CFFV 10E J 0W25 E2
10 01129 SR31 R CFFV 10E J 0W25 E2

13 1716 Z..1 D ZEN 5V1 0W5 C DO35

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Spare parts 76 1876

ART NO.	DESCRIPTION	QUANTITY	ART NO.	DESCRIPTION	QUANTITY
10 01129	R CFFV 10E J 0W25 E2	28			
10 01289	R CFFV220E J 0W25 E2 SKS2	2	31 3276	J MD1 MBT P10 R1SN	3
10 6725	RTCE H500E K 0W5 S10TS3386P	3	31 33921	J MD JMP P 1 E1SN	3
10 6727	RTCE H 2K K 0W5 S10TS3386P	2	31 3531	J EUR2C MBS P64 E1 C2S P	1
10 6729	RTCE H 10K K 0W5 S10TS3386P	1	31 3729	J PIN MBT D 2 TESTEYE	19
10 6730	RTCE H 20K K 0W5 S10TS3386P	1	31 3923	J CT MBT P 3 M2SN	2
10 7004	RTCE H200E M 0W5 S7 TS3362P	2	31 3924	J CT MBT P 4 M2SN	1
			31 3927	J CT MBT P 7 M2SN	2
13 14181	Q BC559B P SS TO92 030A1	2	31 3930	J CT MBT P10 M2SN	1
13 14295	Q BC549B N SS TO92 030A1	1	31 3935	J CT MBT P15 M2SN	1
13 1491	Q BSX20 .2369 N SS TO18 015A2	6			
13 1621	D S 1N4148 075150 DO35	9	36 20167	SCR D84 M 2.5X 16 SI	2
13 16361	D Y BAT85 030200 DO35	1	36 20216	SCR D84 M 3 X 6 SI	2
13 1716	D ZEN 5V1 0W5 C DO35	1	36 20226	SCR D84 M 3 X 8 SI	1
13 2826	U 1203 LM DIP28 PRGB	1	36 61026	NUT D934 M 3 I	3
13 2833	U 76013 SC DIP28 PD_POT	2	36 61106	NUT D934 M 2.5 I	2
13 2910	Q BS170 FN SS TO92 060A5	1	36 74391	RVT POP D3.2 L 7.4 P ASW	2
13 2911	Q 2N5583 P SS TO39 030A5	3	36 7502	WSHR D6798 A 3.2 SZ	3
13 30291	Q ACC ISO MICA TO220	1	36 7528	WSHR D6798 A 2.7 SZ	2
13 30292	Q ACC ISO BSHG TO220	1	36 7699	RVT CHB D2.38L6.35 P A	1
13 4001	U 7805 TO220 PSTAB	1			
13 4002	U 7812 TO220 PSTAB	1	78 0226	PCD PJ49 CTRS_MOD	1
13 4016	U 7912 TO220 PSTAB	1			
13 4028	U 317LZ TO92 PSTAB	1	80 1602	X ACC INSUL STRIP PCM5	3
13 4029	U 337LZ TO92 PSTAB	1	80 2629	HTSNK PJ49 RGB PR_AMP	1
13 4113	U 084 TL DIP14 POPAMP	1	80 2692	HTSNK PJ49 FIX HTSNK	2
13 4124	U 082 TL DIP8 POPAMP	2			
13 4125	U 34084 DIP14 POPAMP	3			
13 4221	U 592 NE DIL14 PVID_A	3			
13 4222	U 1495 MC DIL14 P	5			