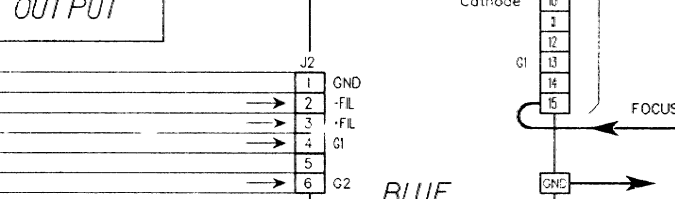
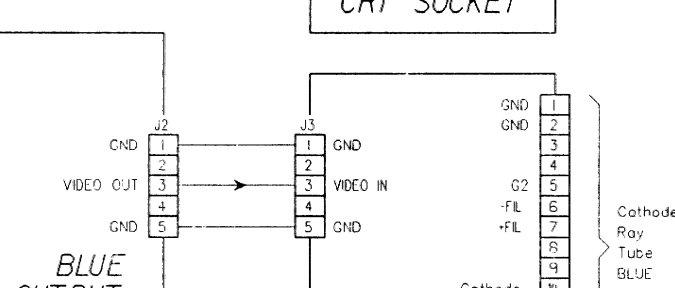
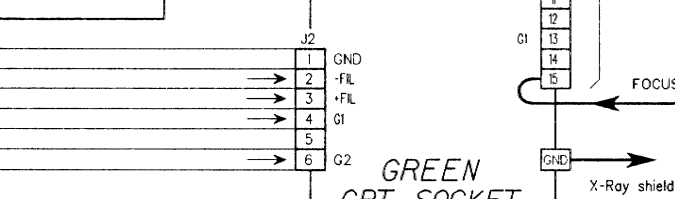
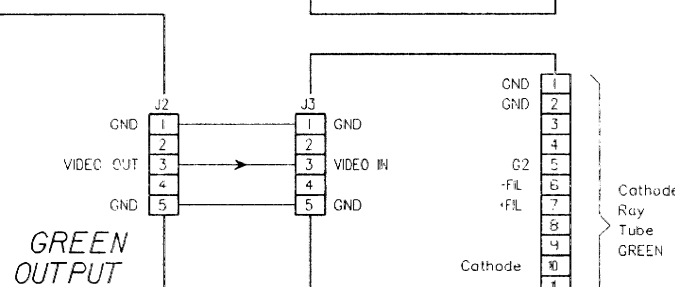
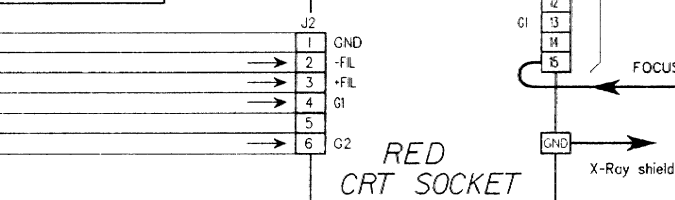
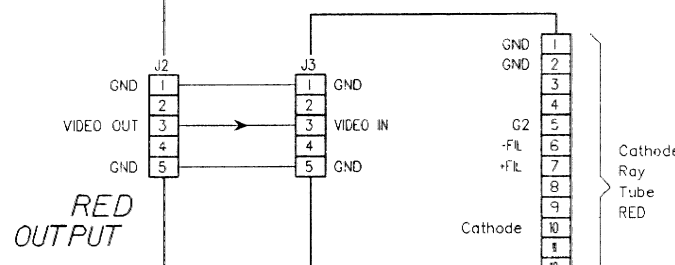
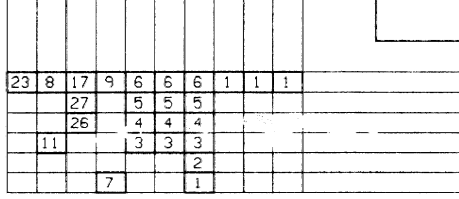
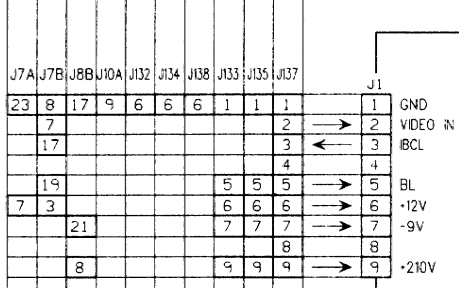
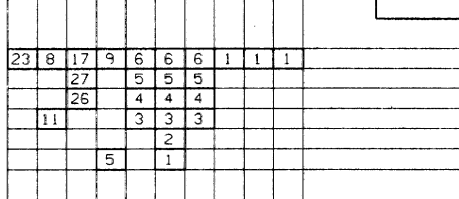
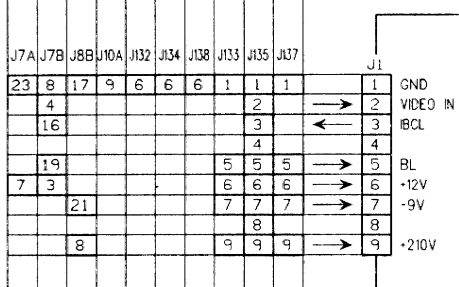
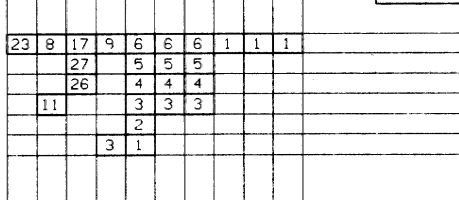
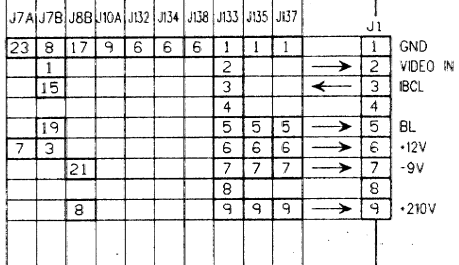
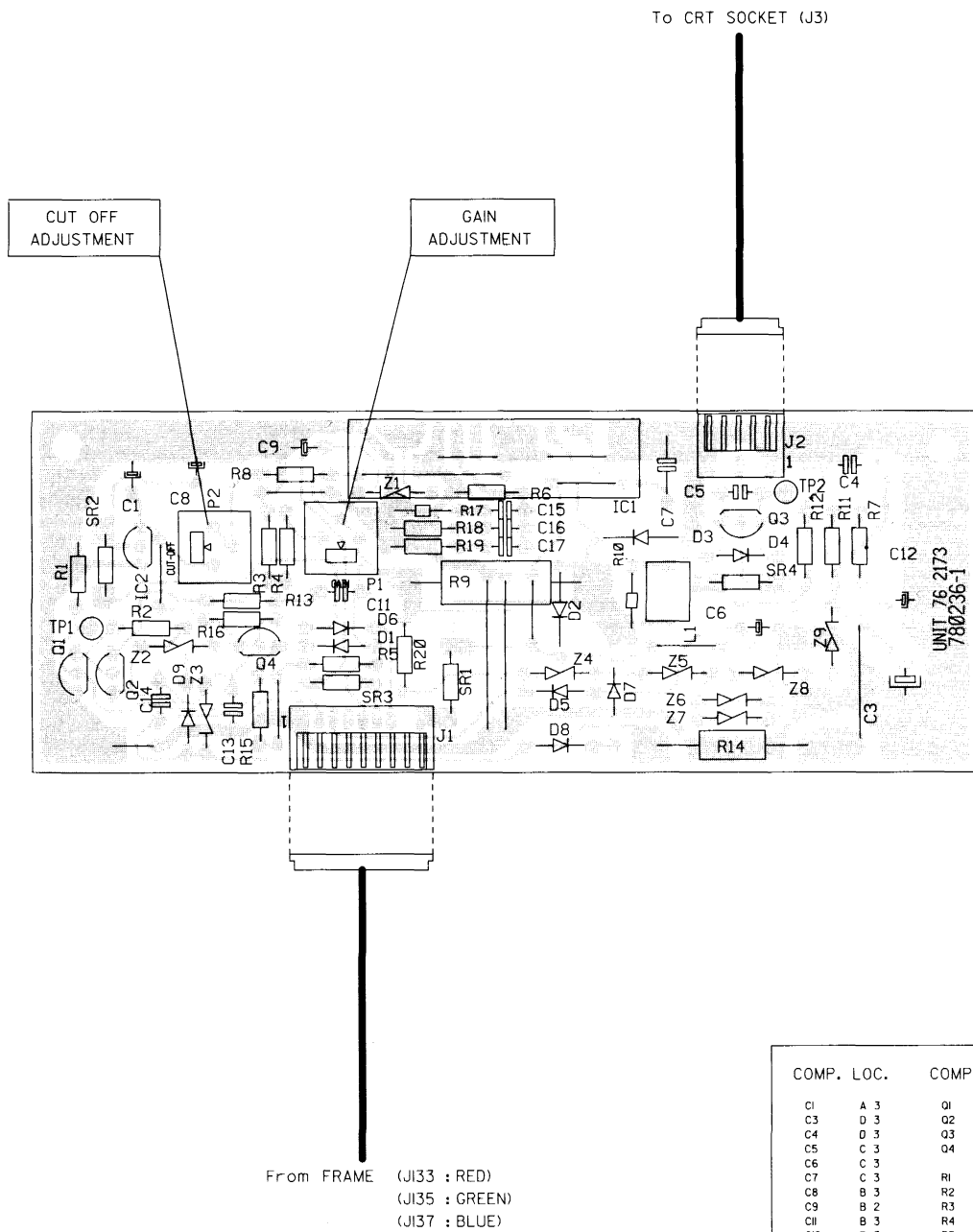


DECODER + RGB DRIVER MODULE
 SWITCH MODE POWER SUPPLY MODULE
 ELECTRICAL FOCUS + G2 + DIAGNOSTIC MODULE
 CRT SOCKET MODULE (RED)
 CRT SOCKET MODULE (GREEN)
 RGB OUTPUT MODULE (RED)
 RGB OUTPUT MODULE (GREEN)
 RGB OUTPUT MODULE (BLUE)



Name OUTPUT & CRT SOCKET		Article nr. 76 2171 i 76 2173	
Date 06-09-1993	Drawn JVDY	Checked PDG	
BARCO PROJECTION SYSTEMS			



COMP. LOC.		COMP. LOC.	
C1	A 3	Q1	A 3
C3	D 3	Q2	A 3
C4	D 3	Q3	C 3
C5	C 3	Q4	B 3
C6	C 3		
C7	C 3	R1	A 3
C8	B 3	R2	A 3
C9	B 2	R3	B 3
C10	B 3	R4	B 3
C12	D 3	R5	B 3
C13	B 3	R6	C 3
C14	A 3	R7	D 3
C15	C 3	R8	B 3
C16	C 3	R9	B 3
C17	C 3	R10	C 3
		R11	D 3
D1	B 3	R12	D 3
D2	C 3	R13	B 3
D3	C 3	R14	C 3
D4	C 3	R15	B 3
D5	C 3	R16	B 3
D6	B 3	R17	B 3
D7	C 3	R18	B 3
D8	C 3	R19	B 3
D9	B 3	R20	B 3
IC1	C 3	SR1	B 3
IC2	A 3	SR2	A 3
J1	B 3	SR3	B 3
J2	C 2	SR4	C 3
L1	C 3	Z1	B 3
		Z2	A 3
		Z3	B 3
P1	B 3	Z4	C 3
P2	B 3	Z5	C 3
		Z6	C 3
		Z7	C 3
		Z8	C 3
		Z9	D 3

Name		Article nr.	
RGB OUTPUT		76 2173	
Date	Drawn	Checked	PDG
17-09-1993	JVDY		
BARCO PROJECTION SYSTEMS			

Preparation

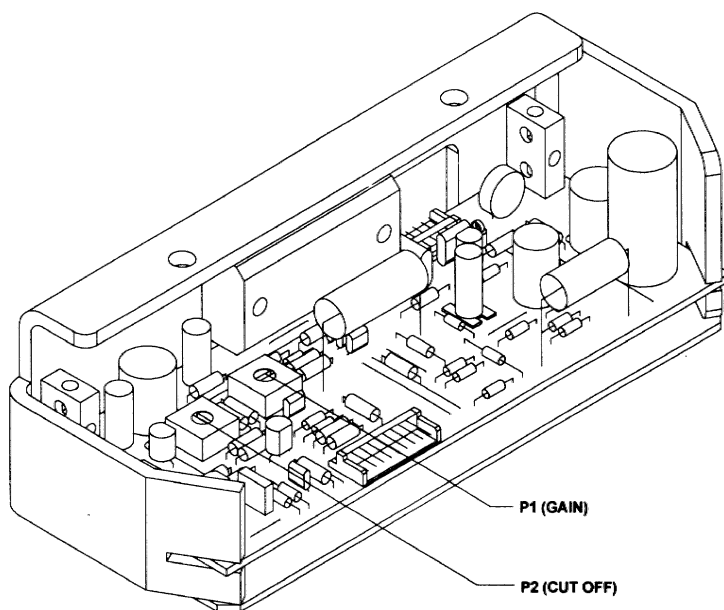
Supply an external signal to the projector (e.g. a color bar signal)

Connect the first measuring probe to the video input signal (use R1) or testpoint TP1.

Connect the second measuring probe to the cathode output (use node R11/C5) or testpoint TP2.

Adjust the projector brightness control until the DC blacklevel of the video input reaches 2V.

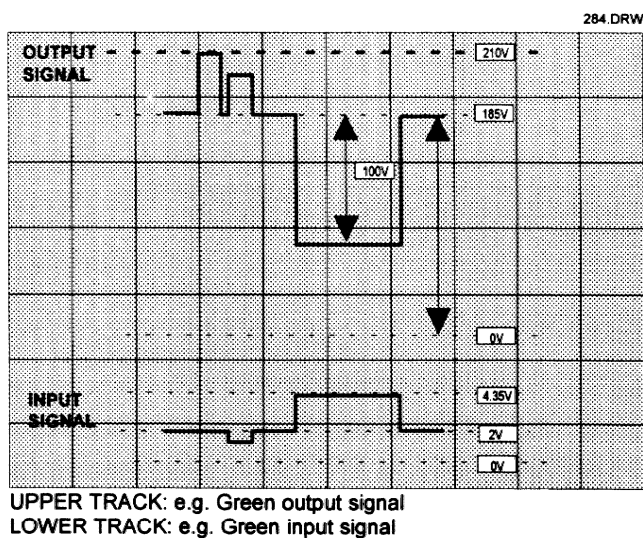
Adjust the contrast control until the video input information reaches an amplitude of 2.35V.



Adjustment

Adjust P2 (blacklevel adjustment) and simultaneously P1 (gain control) for an output blacklevel of 185V and a video output amplitude of 100Vpp (neglecting the blanking pulse).

Important: both adjustments affect each other.



Operational verification

Preventing CRT damage

After a technical intervention on the R, G or B output module, the following operating controls are required to prevent CRT damage

Control of the presence of the blanking pulses

Connect an oscilloscope to testpoint TP2 and verify the presence of the blanking pulses. (These pulses are situated between the black level on 185V and the power supply voltage on 210V. Absence of the blanking pulses can lead to CRT burning in.

Control of the operation of the IBCL circuit

Connect a resistor of 15 kOhm between testpoint TP2 and the +210V power supply. The measured voltage on the output, pin 3 of connector J1, must be around the +6V DC.

Bad working of the IBCL circuit (Individual Current Beam Limiter) can lead to CRT damage.

Parts listing RGB Out 76 2173

ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
11 1510	C..1	C EL RA 22M M 25E2 85	13 2552	Q..3	Q BF423 P SS TO92 25050
11 1569	C..3	C EL RA 10M M250E2 85	13 14181	Q..4	Q BC559B P SS TO92 030A1
11 2830	C..4	C CE DI 2N7S400E3			
11 2763	C..5	C CE MI 10N U 63E2	10 11231	R..1	R CF H 75E J 0W25
11 1477	C..6	C EL RA 100M Z 25E2 85	10 1135	R..2	R CF H820E J 0W25
11 4132	C..7	C POMERA 100N K250E4	10 1136	R..3	R CF H 1K J 0W25
11 1467	C..8	C EL RA 220M Z 16E2 85	10 1118	R..4	R CF H 33E J 0W25
11 1510	C..9	C EL RA 22M M 25E2 85	10 1132	R..5	R CF H470E J 0W25
11 2235	C.11	C NPO MI 27P G 63E2	10 1114	R..6	R CF H 15E J 0W25
11 1467	C.12	C EL RA 220M Z 16E2 85	10 1129	R..7	R CF H270E J 0W25
11 2364	C.13	C N750MI 150P J 63E2	10 1127	R..8	R CF H180E J 0W25
11 3724	C.14	C POMERA 100N K 63E2	10 3352	R..9	R MO H 22K J 4W WK8
11 22415	C.15	C NPO MI 82P J 63E2	10 1529	R.10	R MF H270E F 0W4 E2
11 2366	C.16	C N750MI 220P J 63E2	10 1171	R.11	R CF H820K J 0W25
11 2387	C.17	C N152MI 470P J 63E2	10 1145	R.12	R CF H 5K6 J 0W25
			10 1120	R.13	R CF H 47E J 0W25
13 1621	D..1	D S 1N4148 075150 DO35	10 3256	R.14	R MO H 47K J 1W5
13 19481	D..2	D R BYD33J 6001A3 SOD81	10 1134	R.15	R CF H680E J 0W25
13 19481	D..3	D R BYD33J 6001A3 SOD81	10 1140	R.16	R CF H 2K2 J 0W25
13 1621	D..4	D S 1N4148 075150 DO35	10 1506	R.17	R MF H 3E3 F 0W4 E2
13 1621	D..5	D S 1N4148 075150 DO35	10 1119	R.18	R CF H 39E J 0W25
13 16361	D..6	D Y BAT85 030200 DO35	10 1128	R.19	R CF H220E J 0W25
13 1627	D..7	D S BAV21 200250 DO35	10 11471	R.20	R CF H 7K5 J 0W25
13 1627	D..8	D S BAV21 200250 DO35			
13 1621	D..9	D S 1N4148 075150 DO35	10 11009	SR.1	R CFFH 1E J 0W25 SKS2
			10 11129	SR.2	R CFFH 10E J 0W25
13 4301	I..1	U 06 VPH	10 11129	SR.3	R CFFH 10E J 0W25
13 4035	I..2	U 79L05 TO92 PSTAB	10 11369	SR.4	R CFFH 1K J 0W25
31 3949	J..1	J CT MBS P 9 M2SN	31 3729	TP.1	J PIN MBT D 2 TESTEYE
31 3945	J..2	J CT MBS P 5 M2SN	31 3729	TP.2	J PIN MBT D 2 TESTEYE
77 4272	L..1	COIL IF N10.5 B5ZK D0.2			
10 6725	P..1	R TCE H500E K 0W5 S10TS3386P	13 1767	Z..1	D ZEN 6V8 0W5 B DO35
10 6725	P..2	R TCE H500E K 0W5 S10TS3386P	13 1767	Z..2	D ZEN 6V8 0W5 B DO35
			13 1766	Z..3	D ZEN 18V 0W5 B DO35
78 0236	PC..	PCB PJ49 G800 RGB OUT 01	13 17215	Z..4	D ZEN 13V 0W5 B DO35
			13 2102	Z..5	U 33B ZTK DO35 PSTAB
13 14181	Q..1	Q BC559B P SS TO92 030A1	13 2102	Z..6	U 33B ZTK DO35 PSTAB
13 14295	Q..2	Q BC549B N SS TO92 030A1	13 2102	Z..7	U 33B ZTK DO35 PSTAB
			13 2102	Z..8	U 33B ZTK DO35 PSTAB
			13 2102	Z..9	U 33B ZTK DO35 PSTAB

Spare parts RGB Out 76 2173

ART NO.	DESCRIPTION	QUANTITY	ART NO.	DESCRIPTION	QUANTITY
10 11009	R CFFH 1E J 0W25 SKS2	1	13 2552	Q BF423 P SS TO92 25050	1
10 11129	R CFFH 10E J 0W25	2	13 4035	U 79L05 TO92 PSTAB	1
10 11369	R CFFH 1K J 0W25	1	13 4301	U 06 VPH	1
10 3256	R MO H 47K J 1W5	1			
10 3352	R MO H 22K J 4W WK8	1	31 3729	J PIN MBT D 2 TESTEYE	2
10 6725	R TCE H500E K 0W5 S10TS3386P	2	31 3945	J CT MBS P 5 M2SN	1
			31 3949	J CT MBS P 9 M2SN	1
11 1569	C EL RA 10M M250E2 85	1			
11 2830	C CE DI 2N7S400E3	1	36 1912	SCR D965 M 3 X 6 PS Z	1
11 4132	C POMERA 100N K250E4	1	36 1916	SCR D965 M 3 X 16 PS Z	1
			36 21229	SCR D7985 M 3 X 8 PIC	1
13 14181	Q BC559B P SS TO92 030A1	2	36 26696	SCR D921 M 3 X 8 SI	1
13 14295	Q BC549B N SS TO92 030A1	1	36 6102	NUT D934 M 3 S Z	1
13 1621	D S 1N4148 075150 DO35	4	36 7600	NUT BLOC M 3	1
13 1627	D S BAV21 200250 DO35	2			
13 16361	D Y BAT85 030200 DO35	1	77 4272	COIL IF N10.5 B5ZK D0.2	1
13 17215	D ZEN 13V 0W5 B DO35	1			
13 1766	D ZEN 18V 0W5 B DO35	1	80 4622	HTSNK PJ49 RGB OUT G801	1
13 1767	D ZEN 6V8 0W5 B DO35	2	80 5143	FRM PJ49 RGB CVR	1
13 19481	D R BYD33J 6001A3 SOD81	2			
13 2102	U 33B ZTK DO35 PSTAB	5			

