



BARCO Projection Systems

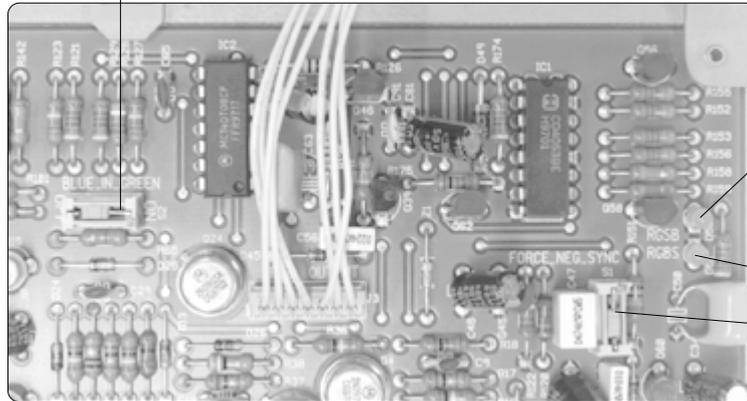
SECTION H

service sheet

RGB Input Aut Sync Track

R7621055

S(witch)2 Blue in Green
(ON=yes)

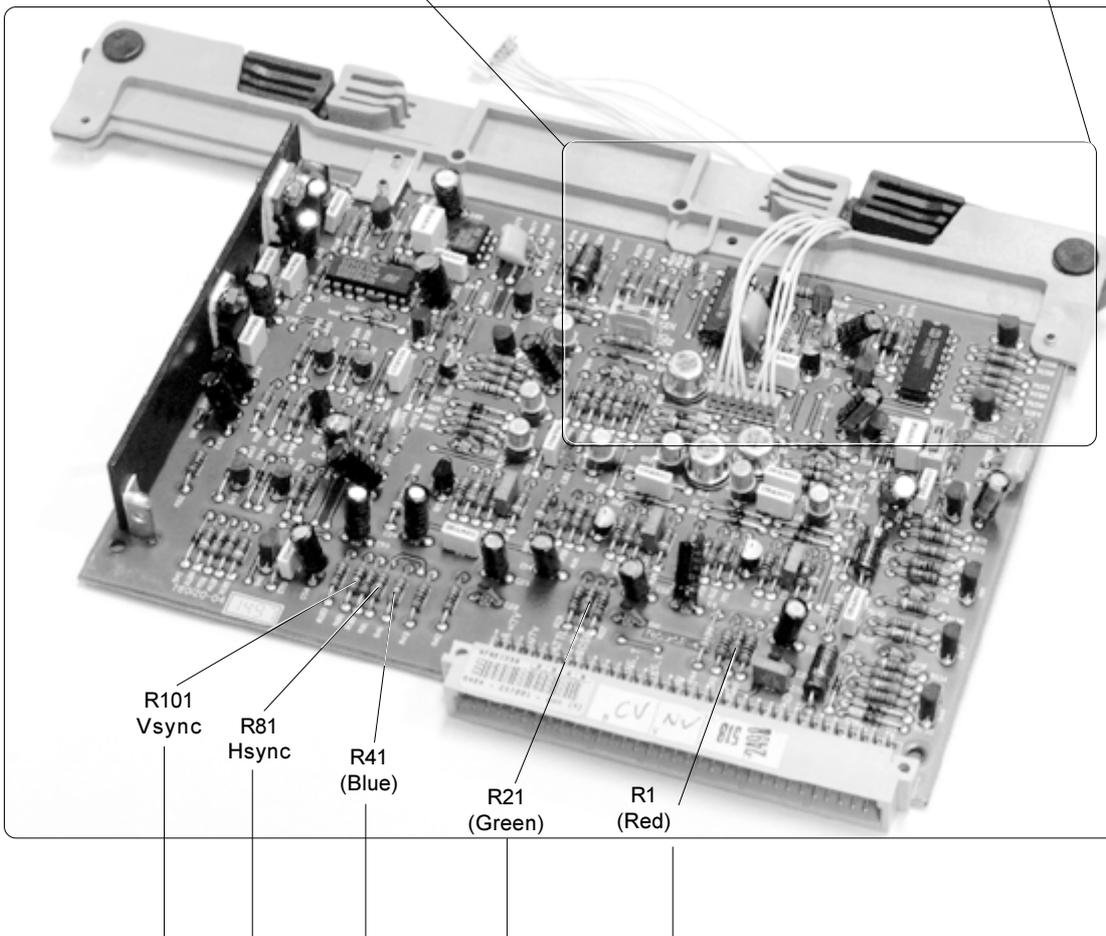


LED

RGSB
(sync on Green)

RCSB
(separate sync)

S(witch)1 Force neg. sync
(ON=yes)



R101
Vsync

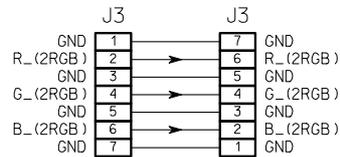
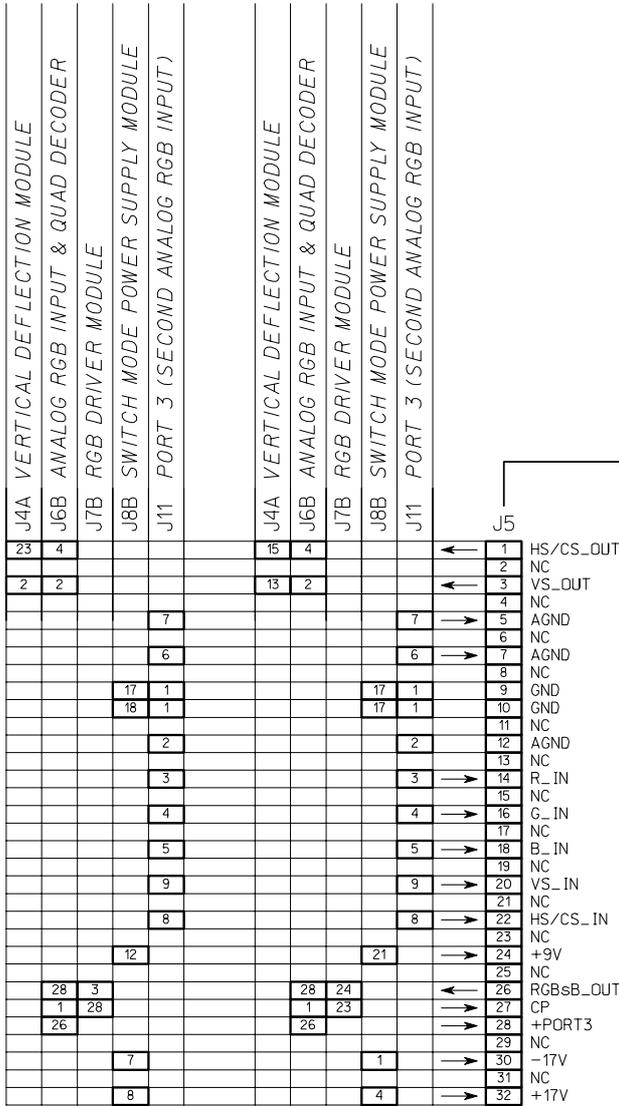
R81
Hsync

R41
(Blue)

R21
(Green)

R1
(Red)

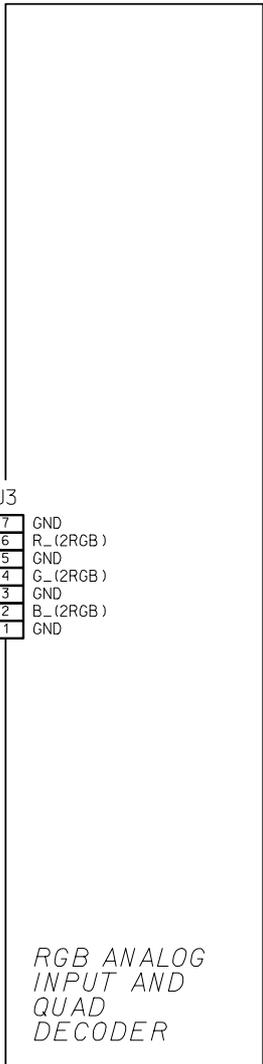
Line termination 75 Ohm resistors



1200 SERIES

800 SERIES

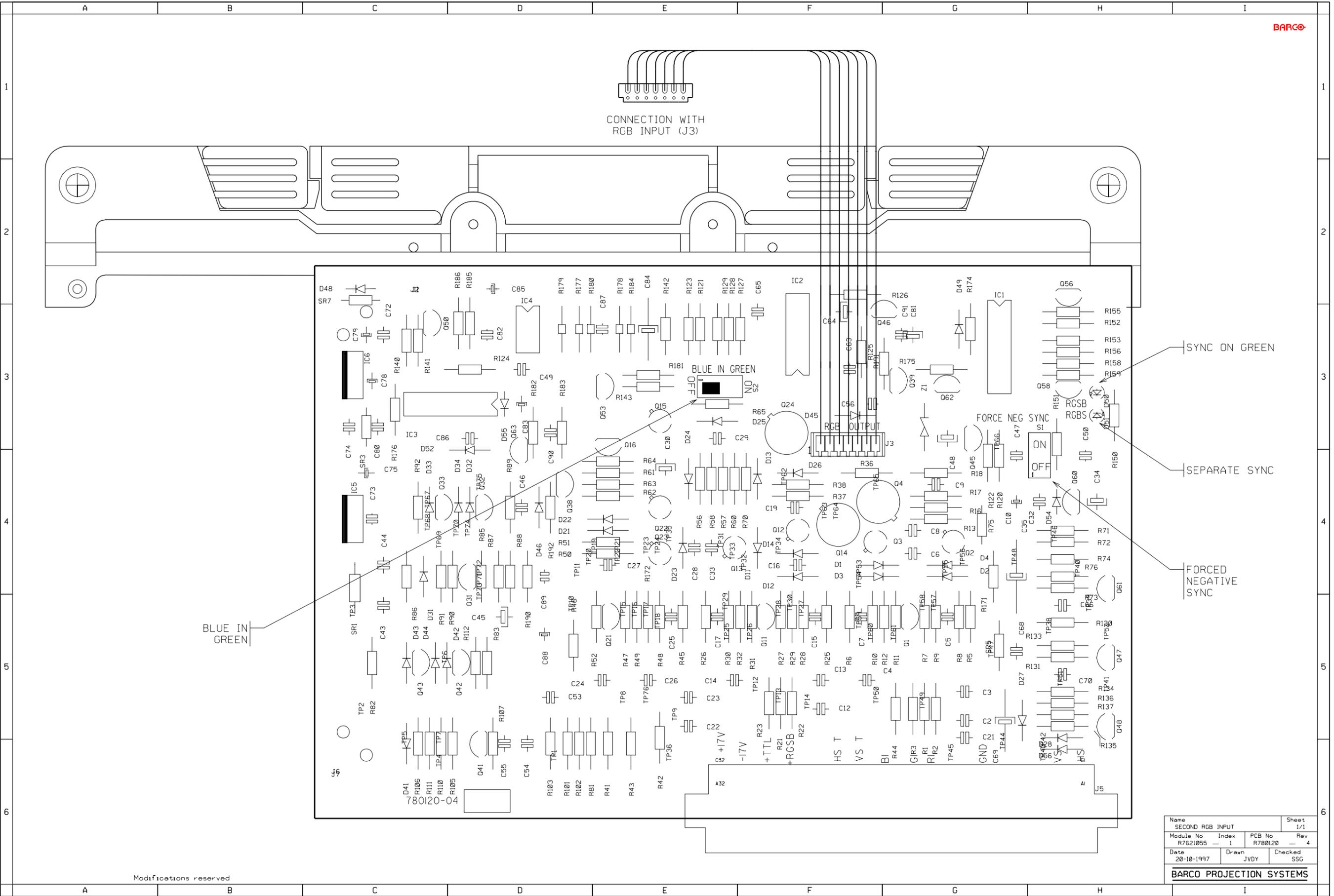
SECOND RGB INPUT



RGB ANALOG INPUT AND QUAD DECODER

Modifications reserved

Name SECOND RGB INPUT		Sheet 1/1	
Module No R7621055	Index - 1	PCB No R780120	Rev - 4
Date 20-10-1997	Drawn JVDY	Checked SSG	
BARCO NV		Division BPS	



BLUE IN GREEN

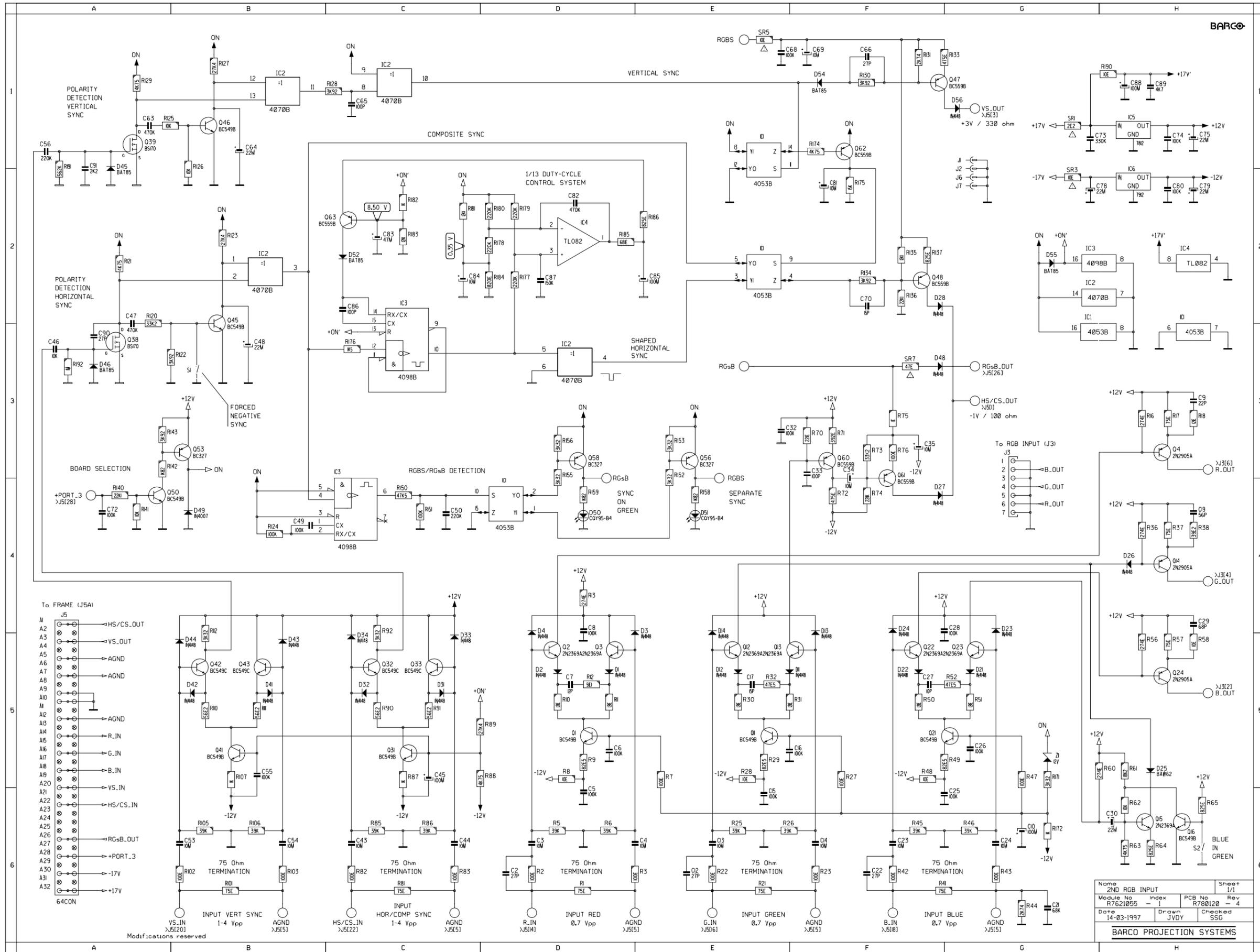
SYNC ON GREEN

SEPARATE SYNC

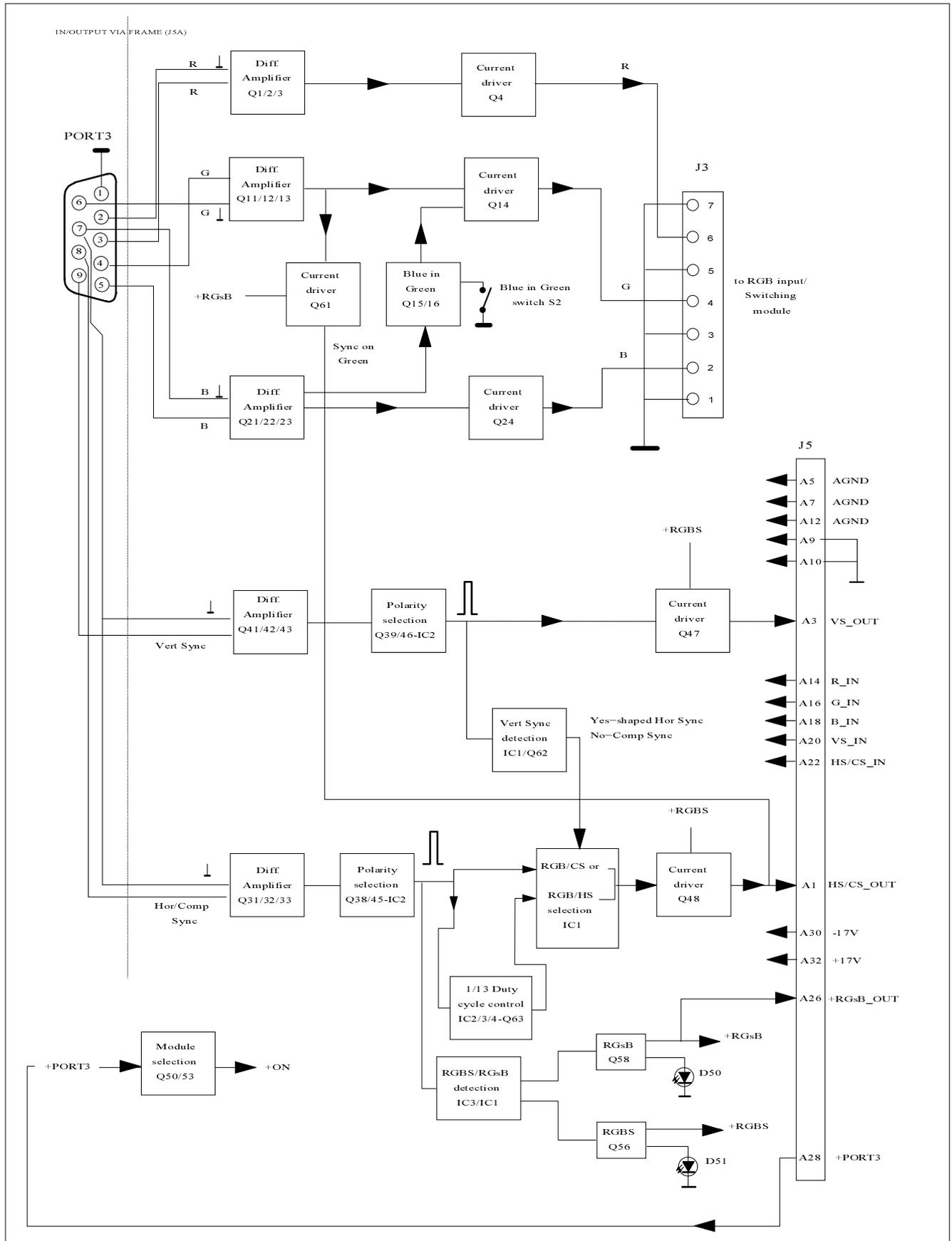
FORCED NEGATIVE SYNC

Modifications reserved

Name		Sheet	
SECOND RGB INPUT		1/1	
Module No	Index	PCB No	Rev
R7621055	1	R780120	4
Date	Drawn	Checked	
20-10-1997	JVDY	SSG	
BARCO PROJECTION SYSTEMS			



COMP.	LOC.	COMP.	LOC.	COMP.	LOC.
C2	D 6	Q21	F 5	R184	D 2
C3	D 6	Q22	F 5	R185	D 2
C4	D 6	Q23	F 5	R186	E 2
C5	D 6	Q24	F 5	R190	H 1
C6	D 6	Q31	F 5	R191	A 3
C7	D 6	Q32	F 5	R192	A 3
C8	D 6	Q33	F 5		
C9	D 6	Q38	F 5	S1	B 3
C10	D 6	Q39	F 5	S2	H 6
C11	D 6	Q41	F 5	SR1	G 1
C12	D 6	Q42	F 5	SR3	G 1
C13	D 6	Q43	F 5	SR5	F 3
C14	D 6	Q45	F 5	SR7	F 3
C15	D 6	Q46	F 5	Z1	G 5
C16	D 6	Q47	F 5		
C17	D 6	Q48	F 5		
C18	D 6	Q49	F 5		
C19	D 6	Q50	F 5		
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C31	D 6	Q62	F 5		
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D195	D 6	R254	D 6		
D196	D 6	R255	D 6		
D197	D				



TECHNICAL DESCRIPTION SECOND RGB INPUT 76 21055

Introduction.

With this board a second RGB analog input can be selected through the D9 (former TTL input) connector next to the first input . Since this board occupies the former TTL connector, the sync polarity must be corrected automatically and the board must also select automatically between “Sync on Green” and “Separate Sync”.

In case of a separate sync input HS the sync width pulse is also set to 1/13th of the line period.

The R, G and B output signals are sent to the “RGB INPUT + SW “ module. The sync outputs VS OUT (if any) and / or the HS / Comp Sync are sent to the VERT DEFL board for further processing.

Red, Green and Blue Inputs.

Three identical differential amplifiers are switched to “active” with the ON voltage. This ON voltage is obtained from the +PORT 3 voltage arriving at contact 28 (=former +TTL voltage) and the transistors Q50 and Q53. Note that the 75 Ohm termination is not switchable.

The **Red** signal is taken from the collector of Q2 and fed to the current driver Q4. The collector resistor of the latter is on the RGB SW + Input board. G OUT and B OUT are got in a similar way.

The green signal is also sent to Q60 and used for synchronisation if “Sync on Green” has been detected (see further).

The blue output at Q23 is also supplying Q15. When the Blue in Green switch S2 is in a closed position, Q16 is blocked and Q15 adds some amount of blue into the green channel via D25 . If however S2 is open Q16 is saturated and Q15 does not get enough base voltage and is consequently blocked.

Note : The “Blue in Green” of the first analog input is switchable via the remote control, thus via software control. Here, the blue in green is switched with S2 and is not affected by the software.

Vertical Sync Input - Automatic Polarity.

If separate vertical sync pulses are available and applied to the Q41 / Q43 input they arrive on the Q39 amplifier / inverter. The inverted pulses are now inverted or not inverted depending on the voltage level of pin 12.

Assume the pulses at the drain are positive. Then Q46 is regularly switched on by these pulses and the average voltage at the collector or at pin 12 is low. In such case the output pin 11 follows the input pin 13 , which means that the pulses are positive at pin 11.

If the pulses are of a negative polarity at the drain, Q39 never gets in conduction and the level at pin 12 is “high” through R127. The input pulses are inverted by the exclusive OR gate.

The polarity of the pulses at pin 11 is thus always positive irrelevant of the input polarity. These pulses are proceeding to the base of Q47 via D54 and to the multiplexer / demultiplexer 4053B, pin 11. The +RGS voltage provides the necessary biasing for Q47.

The 4053B is triple two-channel multiplexer, having three separate digital control inputs. One of these control inputs is pin 11.

If VS pulses are applied to the input, then the HS/CS output must be the HS input. The selection between HS or CS happens in the second multiplexer. On other words, as soon VS pulses are applied, the HS pulses must also be selected.

The presence of the VS pulses determine the correct voltage at pin 9 in order to select the pin 3 input (Shaped Horizontal Sync).

Horizontal Sync/Composite Sync. The HS / CS signal, taken from the collector of Q32 , is passing a similar automatic polarity circuit as the VS pulses.

When no pulses at all are applied to this circuit, the monoflop IC3 is never re-triggered and the output remains all the time "low". This output is filtered and is the control voltage of the multiplexer.

The "0" output is then connected to pin 15 which is at ground level. This all means that Q58 is saturated and the **+RGsB** voltage becomes available for further switching. The LED D50 comes on to indicate the RGsB mode.

When the monoflop is constantly triggered with pulses the output is switched "high" and then the "1" output of the multiplexer is connected to the grounded input (pin 15). This now provides the +RGSB voltage instead.

When no VS pulses are available, the "0" input pin 5 of the multiplexer is chosen. The "1/13 DUTY-CYCLE Control System " circuit cannot be used in this case due to the presence of the VS pulses in the composite sync.

1/13 Duty-Cycle Control System.

When separate HS pulses are used for synchronisation, the width of the pulses is all the time adjusted to 1/13th of the line period.

Positive horizontal pulses are applied to the leading edge input pin 12.

The output pulses are integrated by R177/C87 and applied to the non-inverting input pin 3 of the (Miller-integrating) OPAMP IC4. The other input is installed at a voltage set by R180/R178 (6 volts).

This integrated voltage is proportional with the width of the pulses and inversely proportional with the line period. The output of the Miller-integrator (=OPAMP) determines the current flowing in Q63.

This all means that the width of the sync pulse depends on the line period and the feedback systems provides a setting to 1/13th of the line period.

These SHAPED HORIZONTAL SYNC pulses proceed now to the multiplexer and if VS is available, these pulses are selected and Q48 brings them to the output.

Parts listing R7621055

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	ITEM NO.	SIT.	DESCRIPTION
31	R1330291	HTSN@A TO220I_MICA°15X19	1	C 64	R111532	REPLACED BY V1114855
30	R1330292	HTSN@A TO220I_BUSHREC	1	C 65	R112242	C NP0 MI 100P G100E2
60	R133076	HTSN@A TO5 MNT PAD 3P	3	C 66	R112235	C NP0 MI 27P G100E2
10	R302108	CORE TUBE 3,5 /1,3 X 3	7	C 68	R113724	C POMERA 100N K 63E2 85
	R3484074	CD CT FTMT P 7 170	1	C 69	R1111565	C EL AX 10M T 25E6 85
32	R3620226	SCR D84 M 3 X 8 SS	1	C 70	R112232	C NP0 MI 15P G100E2
40	R3620226	SCR D84 M 3 X 8 SS	1	C 72	R113724	C POMERA 100N K 63E2 85
34	R3661026	NUT D934 M 3 SS	2	C 73	R113730	C POMERA 330N K 63E2 85
42	R3661026	NUT D934 M 3 SS	2	C 74	R113724	C POMERA 100N K 63E2 85
33	R367502	SPR D6798AD 3,2D 6 STZN	1	C 75	R111510	C EL RA 22M M 25E2 85
41	R367502	SPR D6798AD 3,2D 6 STZN	1	C 78	R111510	C EL RA 22M M 25E2 85
50	R367699	RVT AVTRON2,5L 8,1 AL	2	C 79	R111510	C EL RA 22M M 25E2 85
1000	R722276	LOCK49 PCB UNCPL	1	C 80	R113724	C POMERA 100N K 63E2 85
20	R802629	HTSNCPJ49 RGB PR-AMP	1	C 81	R111531	C EL RA 10M M 35E2 85
22	R802692	HTSNCPJ49 FIX HTSN	2	C 82	R113732	C POMERA 470N K 63E2 85
1010	R803238	LOCK51 PCB RGB_A AUT	1	C 83	R111476	C EL RA 47M M 25E2 85
C 2	R112235	C NP0 MI 27P G100E2		C 84	R1111565	C EL AX 10M T 25E6 85
C 3	R111678	C EL BRA 10M M 25E2 85		C 85	R111477	C EL RA 100M M 25E2 85
C 4	R111678	C EL BRA 10M M 25E2 85		C 86	R112242	C NP0 MI 100P G100E2
C 5	R113724	C POMERA 100N K 63E2 85	1	C 87	R113726	C POMERA 150N K 63E2 85
C 6	R113724	C POMERA 100N K 63E2 85		C 88	R111477	C EL RA 100M M 25E2 85
C 7	R112231	C NP0 MI 12P G100E2	1	C 89	R112747	C CE MI 4N7K100E2 85
C 8	R113724	C POMERA 100N K 63E2 85		C 90	R112235	C NP0 MI 27P G100E2
C 9	R112234	C NP0 MI 22P G100E2	1	C 91	R112743	C CE MI 2N2K100E2
C 10	R111477	C EL RA 100M M 25E2 85		D 1	R131621	D S 1N4148 075150 DO35
C 12	R112235	C NP0 MI 27P G100E2		D 2	R131621	D S 1N4148 075150 DO35
C 13	R111678	C EL BRA 10M M 25E2 85		D 3	R131621	D S 1N4148 075150 DO35
C 14	R111678	C EL BRA 10M M 25E2 85		D 4	R131621	D S 1N4148 075150 DO35
C 15	R113724	C POMERA 100N K 63E2 85	1	D 11	R131621	D S 1N4148 075150 DO35
C 16	R113724	C POMERA 100N K 63E2 85		D 12	R131621	D S 1N4148 075150 DO35
C 17	R112232	C NP0 MI 15P G100E2	1	D 13	R131621	D S 1N4148 075150 DO35
C 19	R112239	C NP0 MI 56P G100E2	1	D 14	R131621	D S 1N4148 075150 DO35
C 21	R113722	C POMERA 68N K 63E2 85		D 21	R131621	D S 1N4148 075150 DO35
C 22	R112235	C NP0 MI 27P G100E2		D 22	R131621	D S 1N4148 075150 DO35
C 23	R111678	C EL BRA 10M M 25E2 85		D 23	R131621	D S 1N4148 075150 DO35
C 24	R111678	C EL BRA 10M M 25E2 85		D 24	R131621	D S 1N4148 075150 DO35
C 25	R113724	C POMERA 100N K 63E2 85	1	D 25	R131628	D S BAW62 075200 DO35
C 26	R113724	C POMERA 100N K 63E2 85		D 26	R131621	D S 1N4148 075150 DO35
C 27	R112230	C NP0 MI 10P G100E2	1	D 27	R131621	D S 1N4148 075150 DO35
C 28	R113724	C POMERA 100N K 63E2 85		D 28	R131621	D S 1N4148 075150 DO35
C 29	R112240	C NP0 MI 68P G100E2		D 31	R131621	D S 1N4148 075150 DO35
C 30	R111532	REPLACED BY V1114855		D 32	R131621	D S 1N4148 075150 DO35
C 32	R113724	C POMERA 100N K 63E2 85		D 33	R131621	D S 1N4148 075150 DO35
C 33	R112242	C NP0 MI 100P G100E2		D 34	R131621	D S 1N4148 075150 DO35
C 34	R111531	C EL RA 10M M 35E2 85		D 41	R131621	D S 1N4148 075150 DO35
C 35	R1111565	C EL AX 10M T 25E6 85	1	D 42	R131621	D S 1N4148 075150 DO35
C 43	R111678	C EL BRA 10M M 25E2 85		D 43	R131621	D S 1N4148 075150 DO35
C 44	R111678	C EL BRA 10M M 25E2 85		D 44	R131621	D S 1N4148 075150 DO35
C 45	R111466	C EL RA 100M M 16E2 85		D 45	R1316361	D Y BAT85 030200 DO34
C 46	R1137121	C POMERA 10N K250E2 85		D 46	R1316361	D Y BAT85 030200 DO34
C 47	R113732	C POMERA 470N K 63E2 85		D 48	R131621	D S 1N4148 075150 DO35
C 48	R111532	REPLACED BY V1114855		D 49	R131646	D R 1N4007 10201A DO41
C 49	R113724	C POMERA 100N K 63E2 85		D 50	R131667	D LED D3 T GN
C 50	R113728	C POMERA 220N K 63E2 85	1	D 51	R131667	D LED D3 T GN
C 53	R111678	C EL BRA 10M M 25E2 85		D 52	R1316361	D Y BAT85 030200 DO34
C 54	R111678	C EL BRA 10M M 25E2 85		D 54	R1316361	D Y BAT85 030200 DO34
C 55	R113724	C POMERA 100N K 63E2 85		D 55	R1316361	D Y BAT85 030200 DO34
C 56	R113728	C POMERA 220N K 63E2 85		D 56	R131621	D S 1N4148 075150 DO35
C 63	R113732	C POMERA 470N K 63E2 85	1	I 1	R137391	U 4053B DIP16 P
				I 2	R137392	U 4070B DIP14 P
				I 3	R1373325	U 4098B DIP16 P
				I 4	R134124	U 082 TL DIP8 P
				I 5	R134002	U 7812 TO220 P

RGB Input Aut Sync Track

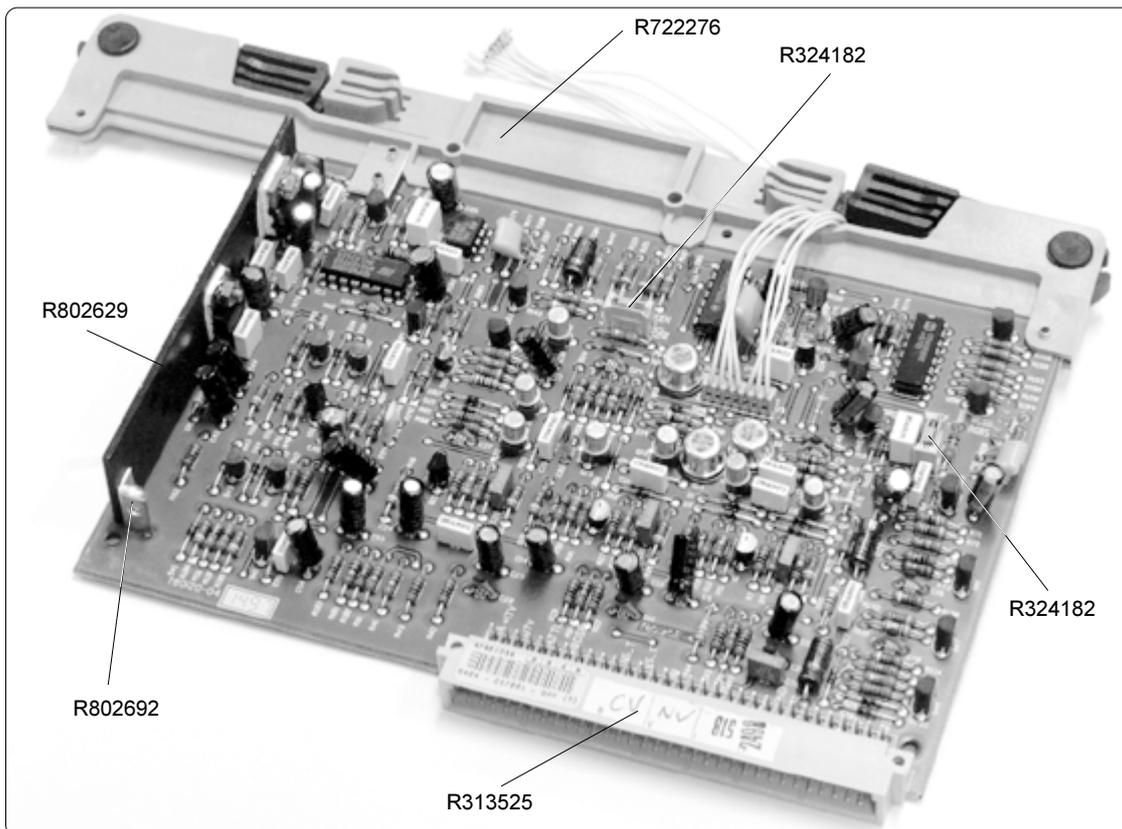
R7621055

I 6	R134016	U 7912	TO220 P	1	R 37	V1026844	R MF H 75E F 0W6 E4
J 5	R313525	JEUR2CMBS	P64 E1C2S 1,6	1	R 38	V1026574	R MF H 39E2 F 0W6 E4
FC	R780120	PCBG1200	INPRGBPS2	1	R 41	V1026844	R MF H 75E F 0W6 E4
Q 1	R1314295	Q BC549B	N SS TO92	1	R 42	V1026005	R MF H100E F 0W6 E4
Q 2	V132504	Q 2N2369A	N SS TO18	1	R 43	V1026005	R MF H100E F 0W6 E4
Q 3	V132504	Q 2N2369A	N SS TO18	1	R 44	V1026426	R MF H 2K74F 0W6 E4
Q 4	R132904	Q 2N2905A	P SS TO39	1	R 45	V1026587	R MF H 39K F 0W6 E4
Q 11	R1314295	Q BC549B	N SS TO92	1	R 46	V1026587	R MF H 39K F 0W6 E4
Q 12	V132504	Q 2N2369A	N SS TO18	1	R 47	V1026005	R MF H100E F 0W6 E4
Q 13	V132504	Q 2N2369A	N SS TO18	1	R 48	V1026004	R MF H 10E F 0W6 E4
Q 14	R132904	Q 2N2905A	P SS TO39	1	R 49	V1026884	R MF H 82E5 F 0W6 E4
Q 15	V132504	Q 2N2369A	N SS TO18	1	R 50	V1026085	R MF H121E F 0W6 E4
Q 16	R1314295	Q BC549B	N SS TO92	1	R 51	V1026085	R MF H121E F 0W6 E4
Q 21	R1314295	Q BC549B	N SS TO92	1	R 52	V1026654	R MF H 47E5 F 0W6 E4
Q 22	V132504	Q 2N2369A	N SS TO18	1	R 56	V1026425	R MF H274E F 0W6 E4
Q 23	V132504	Q 2N2369A	N SS TO18	1	R 57	V1026844	R MF H 75E F 0W6 E4
Q 24	R132904	Q 2N2905A	P SS TO39	1	R 58	V1026004	R MF H 10E F 0W6 E4
Q 31	R1314295	Q BC549B	N SS TO92	1	R 60	V1026425	R MF H274E F 0W6 E4
Q 32	R131411	Q BC549C	N SS TO92	1	R 61	V1026257	R MF H 18K2 F 0W6 E4
Q 33	R131411	Q BC549C	N SS TO92	1	R 62	V1026007	R MF H 10K F 0W6 E4
Q 38	R1329105	Q BS170	FN SS TO92	1	R 63	V1026656	R MF H 4K75F 0W6 E4
Q 39	R132910	Q BS170	FN SS TO92	1	R 64	V1026885	R MF H825E F 0W6 E4
Q 41	R1314295	Q BC549B	N SS TO92	1	R 65	V1026885	R MF H825E F 0W6 E4
Q 42	R131411	Q BC549C	N SS TO92	1	R 70	V1026335	R MF H221E F 0W6 E4
Q 43	R131411	Q BC549C	N SS TO92	1	R 71	V1026575	R MF H392E F 0W6 E4
Q 45	R1314295	Q BC549B	N SS TO92	1	R 72	V1026655	R MF H475E F 0W6 E4
Q 46	R1314295	Q BC549B	N SS TO92	1	R 73	V1026507	R MF H 33K2 F 0W6 E4
Q 47	R1314181	Q BC559B	P SS TO92	1	R 74	V1026338	R MF H221K F 0W6 E4
Q 48	R1314181	Q BC559B	P SS TO92	1	R 75	R1011008	R CFFH 1E J 0W25
Q 50	R1314295	Q BC549B	N SS TO92	1	R 76	V1026005	R MF H100E F 0W6 E4
Q 53	R1314311	Q BC327	P SS TO92	1	R 81	V1026844	R MF H 75E F 0W6 E4
Q 56	R1314311	Q BC327	P SS TO92	1	R 82	V1026005	R MF H100E F 0W6 E4
Q 58	R1314311	Q BC327	P SS TO92	1	R 83	V1026005	R MF H100E F 0W6 E4
Q 60	R1314181	Q BC559B	P SS TO92	1	R 85	V1026587	R MF H 39K F 0W6 E4
Q 61	R1314181	Q BC559B	P SS TO92	1	R 86	V1026587	R MF H 39K F 0W6 E4
Q 62	R1314181	Q BC559B	P SS TO92	1	R 87	V1026006	R MF H 1K F 0W6 E4
Q 63	R1314181	Q BC559B	P SS TO92	1	R 88	V1026656	R MF H 4K75F 0W6 E4
R 1	V1026844	R MF H 75E F 0W6 E4			R 89	V1026427	R MF H 27K4 F 0W6 E4
R 2	V1026005	R MF H100E F 0W6 E4			R 90	V1026724	R MF H 56E2 F 0W6 E4
R 3	V1026005	R MF H100E F 0W6 E4			R 91	V1026724	R MF H 56E2 F 0W6 E4
R 5	V1026587	R MF H 39K F 0W6 E4			R 92	V1026506	R MF H 3K32F 0W6 E4
R 6	V1026587	R MF H 39K F 0W6 E4			R101	V1026844	R MF H 75E F 0W6 E4
R 7	V1026005	R MF H100E F 0W6 E4			R102	V1026005	R MF H100E F 0W6 E4
R 8	V1026004	R MF H 10E F 0W6 E4			R103	V1026005	R MF H100E F 0W6 E4
R 9	V1026884	R MF H 82E5 F 0W6 E4			R105	V1026587	R MF H 39K F 0W6 E4
R 10	V1026085	R MF H121E F 0W6 E4			R106	V1026587	R MF H 39K F 0W6 E4
R 11	V1026085	R MF H121E F 0W6 E4			R107	V1026006	R MF H 1K F 0W6 E4
R 12	V1026684	R MF H 51E1 F 0W6 E4	1		R110	V1026724	R MF H 56E2 F 0W6 E4
R 13	V1026425	R MF H274E F 0W6 E4			R111	V1026724	R MF H 56E2 F 0W6 E4
R 16	V1026425	R MF H274E F 0W6 E4			R112	V1026506	R MF H 3K32F 0W6 E4
R 17	V1026844	R MF H 75E F 0W6 E4			R120	V1026507	R MF H 33K2 F 0W6 E4
R 18	V1026085	R MF H121E F 0W6 E4			R121	V1026656	R MF H 4K75F 0W6 E4
R 21	V1026844	R MF H 75E F 0W6 E4			R122	V1026576	R MF H 3K92F 0W6 E4
R 22	V1026005	R MF H100E F 0W6 E4			R123	V1026427	R MF H 27K4 F 0W6 E4
R 23	V1026005	R MF H100E F 0W6 E4			R124	V1026008	R MF H100K F 0W6 E4
R 25	V1026587	R MF H 39K F 0W6 E4			R125	V1026007	R MF H 10K F 0W6 E4
R 26	V1026587	R MF H 39K F 0W6 E4			R126	V1026007	R MF H 10K F 0W6 E4
R 27	V1026005	R MF H100E F 0W6 E4			R127	V1026427	R MF H 27K4 F 0W6 E4
R 28	V1026004	R MF H 10E F 0W6 E4			R128	V1026576	R MF H 3K92F 0W6 E4
R 29	V1026884	R MF H 82E5 F 0W6 E4			R129	V1026656	R MF H 4K75F 0W6 E4
R 30	V1026085	R MF H121E F 0W6 E4			R130	V1026576	R MF H 3K92F 0W6 E4
R 31	V1026085	R MF H121E F 0W6 E4			R131	V1026426	R MF H 2K74F 0W6 E4
R 32	V1026654	R MF H 47E5 F 0W6 E4			R133	V1026655	R MF H475E F 0W6 E4
R 36	V1026425	R MF H274E F 0W6 E4			R134	V1026576	R MF H 3K92F 0W6 E4
					R135	V1026087	R MF H 12K1 F 0W6 E4
					R136	V1026337	R MF H 22K1 F 0W6 E4
					R137	V1026885	R MF H825E F 0W6 E4
					R140	V1026337	R MF H 22K1 F 0W6 E4

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R141	V1026007	R	MF	H	10K	F	0W6	E4		
R142	V1026256	R	MF	H	1K82F	0W6	E4			
R143	V1026576	R	MF	H	3K92F	0W6	E4			
R150	V1026657	R	MF	H	47K5	F	0W6	E4		
R151	V1026008	R	MF	H	100K	F	0W6	E4		
R152	V1026506	R	MF	H	3K32F	0W6	E4			
R153	V1026506	R	MF	H	3K32F	0W6	E4			
R155	V1026506	R	MF	H	3K32F	0W6	E4			
R156	V1026506	R	MF	H	3K32F	0W6	E4			
R158	V1026256	R	MF	H	1K82F	0W6	E4			
R159	V1026256	R	MF	H	1K82F	0W6	E4			
R171	V1026506	R	MF	H	3K32F	0W6	E4			
R172	V1026006	R	MF	H	1K	F	0W6	E4		
R174	V1026656	R	MF	H	4K75F	0W6	E4			
R175	V1026177	R	MF	H	15K	F	0W6	E4		
R176	V1026176	R	MF	H	1K5	F	0W6	E4		
R177	R101564	R	MF	H	220K	F	0W4	E3		
R178	R101564	R	MF	H	220K	F	0W4	E3		
R179	R101564	R	MF	H	220K	F	0W4	E3		
R180	R101564	R	MF	H	220K	F	0W4	E3		
R181	V1026087	R	MF	H	12K1	F	0W6	E4		1
R182	V1026006	R	MF	H	1K	F	0W6	E4		
R183	V1026087	R	MF	H	12K1	F	0W6	E4		
R184	R101535	R	MF	H	820E	F	0W4	E3		
R185	V1026805	R	MF	H	681E	F	0W6	E4		
R186	V1026885	R	MF	H	825E	F	0W6	E4		
R190	V1026004	R	MF	H	10E	F	0W6	E4		
R191	V1026728	R	MF	H	562K	F	0W6	E4		
R192	V1026009	R	MF	H	1M	F	0W6	E4		
S 1	R324182	SW	DIP	SLD	1A	P	1	BT	SN	1
S 2	R324182	SW	DIP	SLD	1A	P	1	BT	SN	1
SR 1	R1011046	R	CFFH	2E2	J	0W35				1 \triangle
SR 3	R1011129	R	CFFH	10E	J	0W25				1 \triangle
SR 5	R1011129	R	CFFH	10E	J	0W25				1 \triangle
SR 7	R1011209	R	CFFH	47E	J	0W25				1 \triangle
Z 1	R131740	D	ZEN	12V	0W5	C	DO35			



PRODUCT SAFETY NOTICE

Components identified by \triangle have SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. Before replacing any of these components, read carefully the service safety precautions.