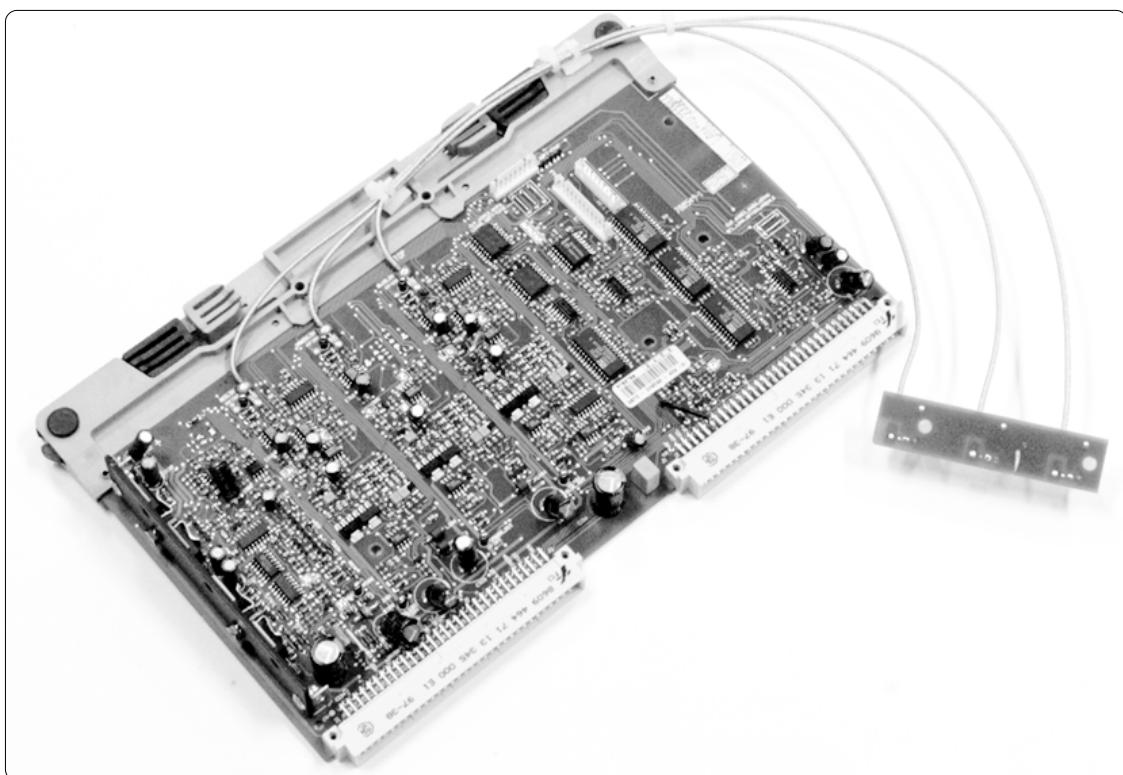
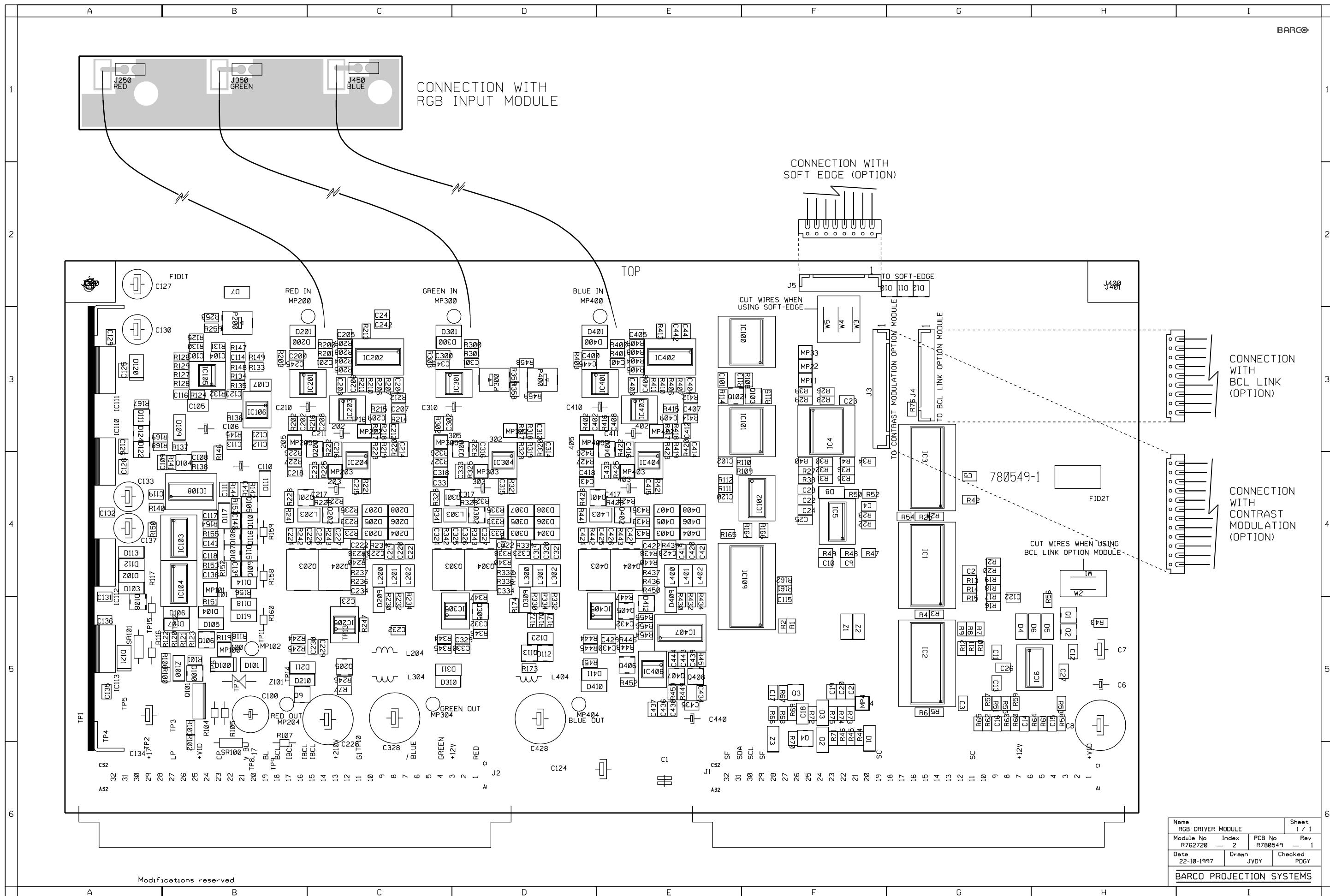
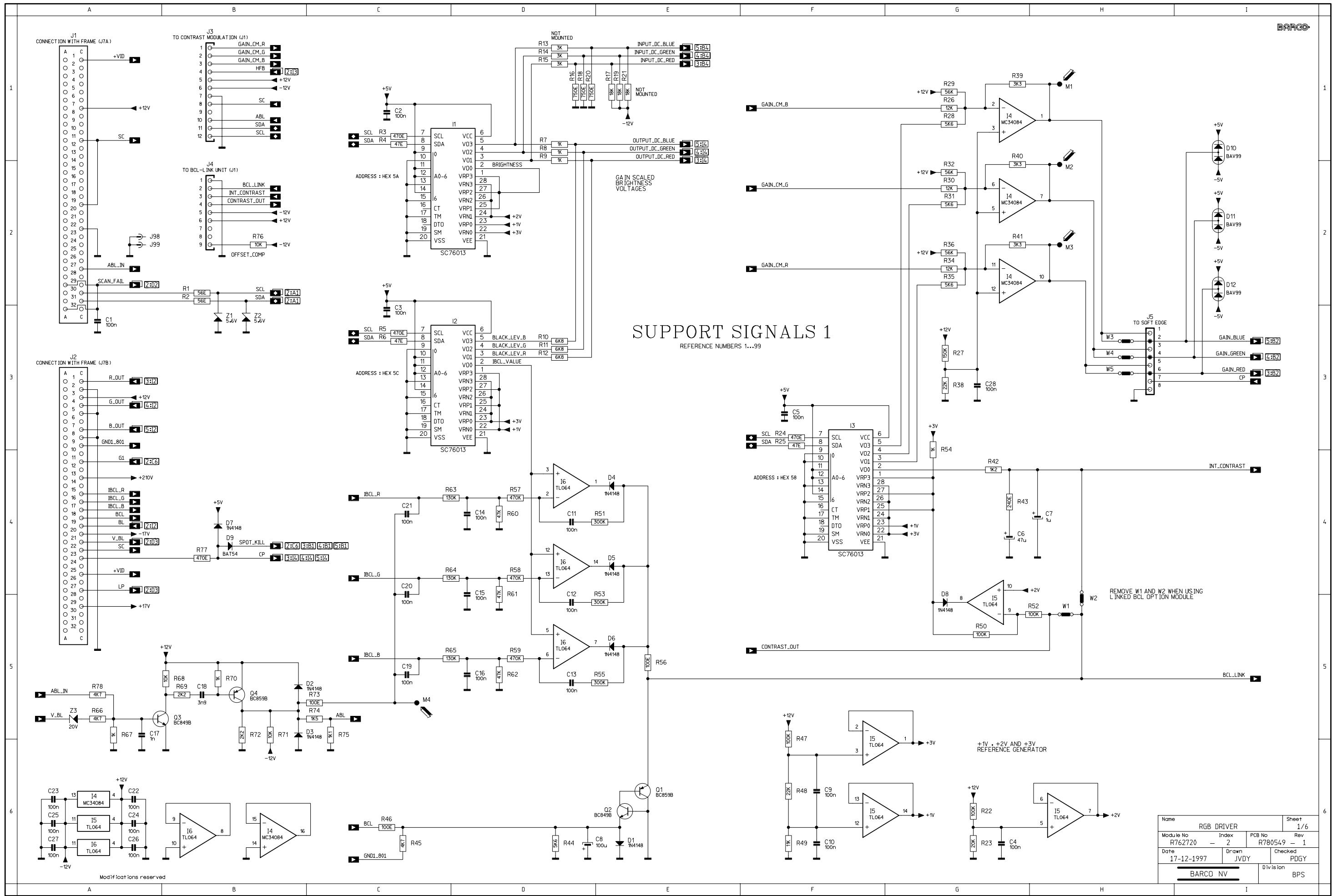


R-G-B Driver

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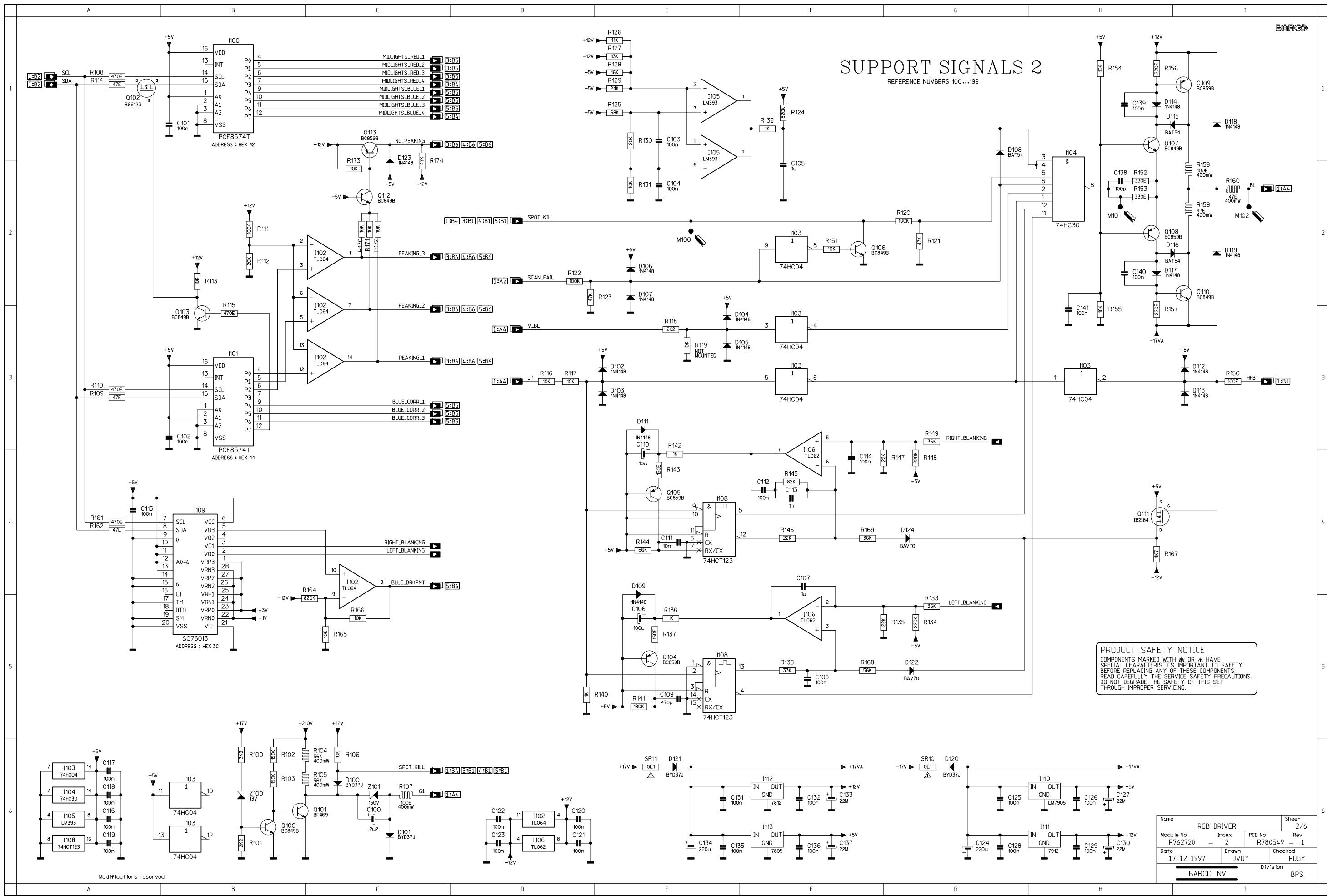


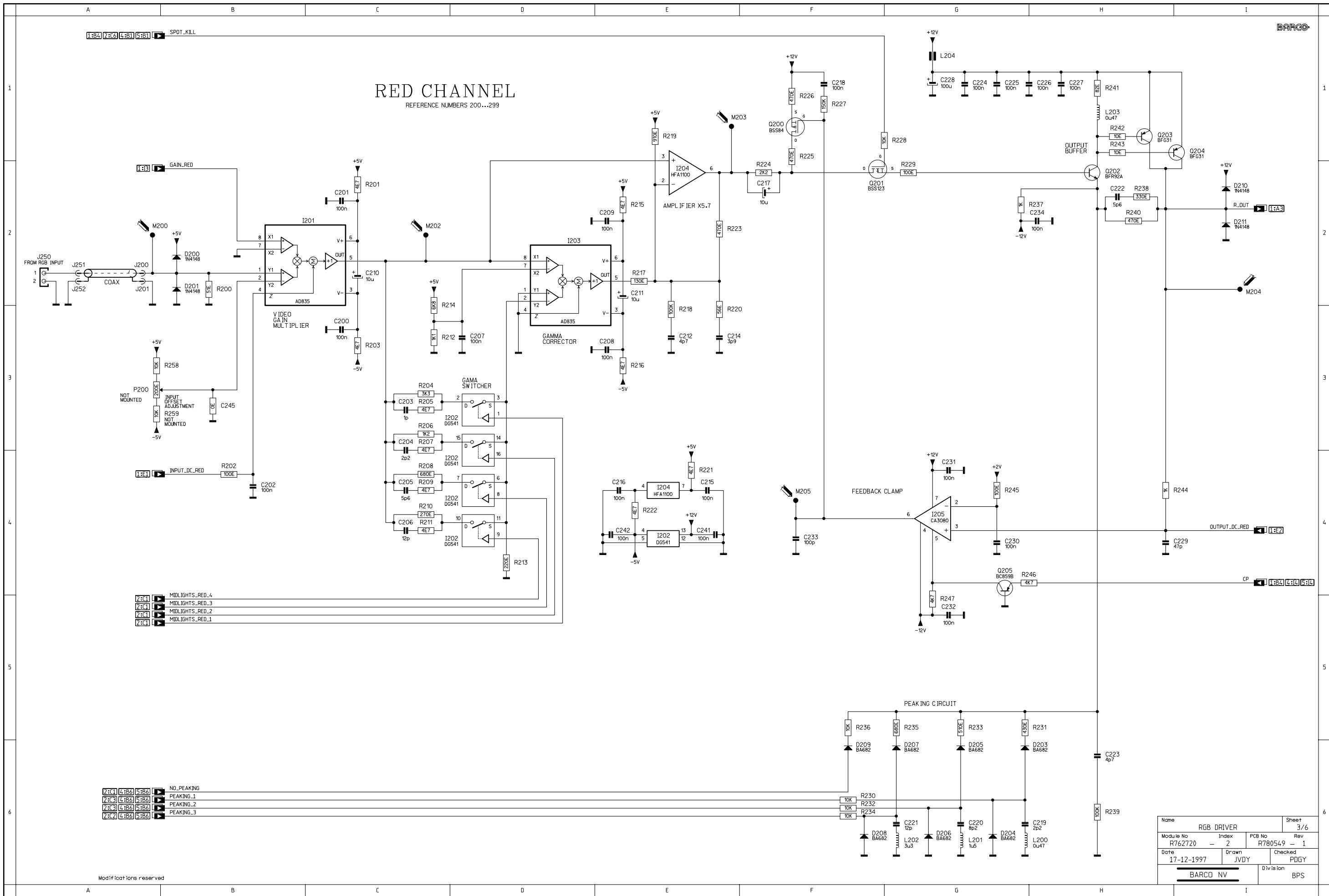


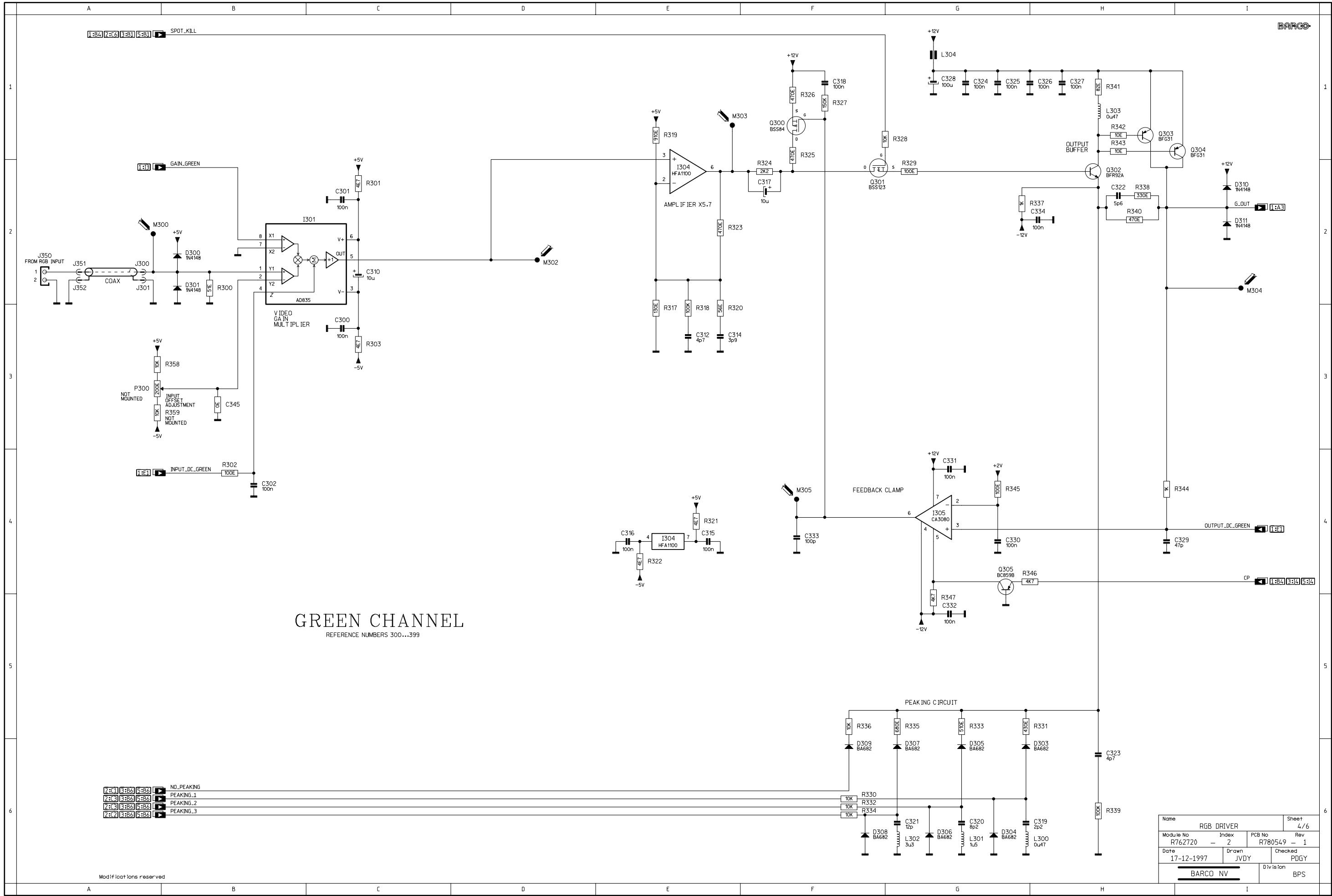


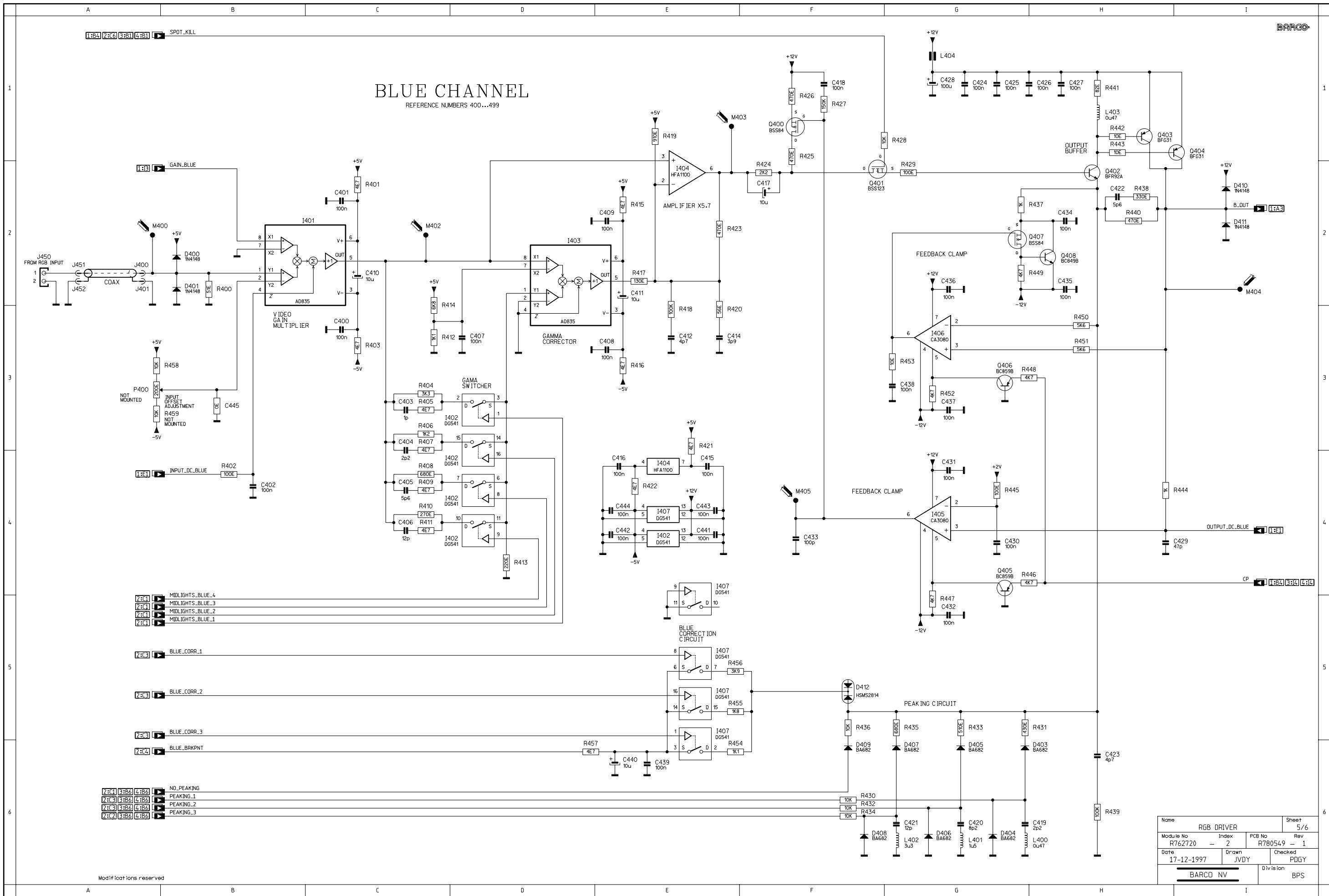
SUPPORT SIGNALS 2

REFERENCE NUMBERS 100...199









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R762720	2	R780549 - 1																					
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Modifications reserved

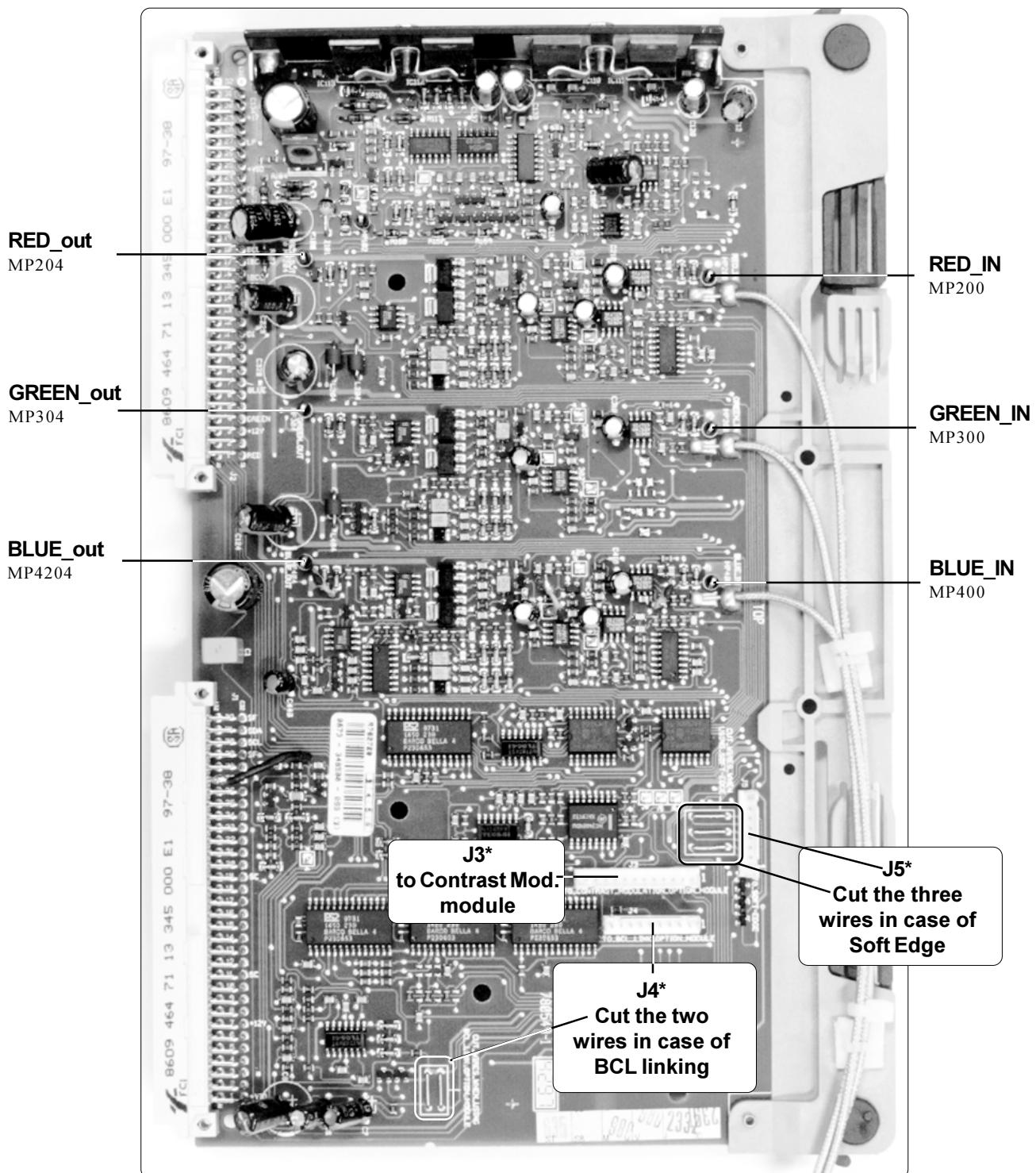
A

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Measurement contacts and Connector location

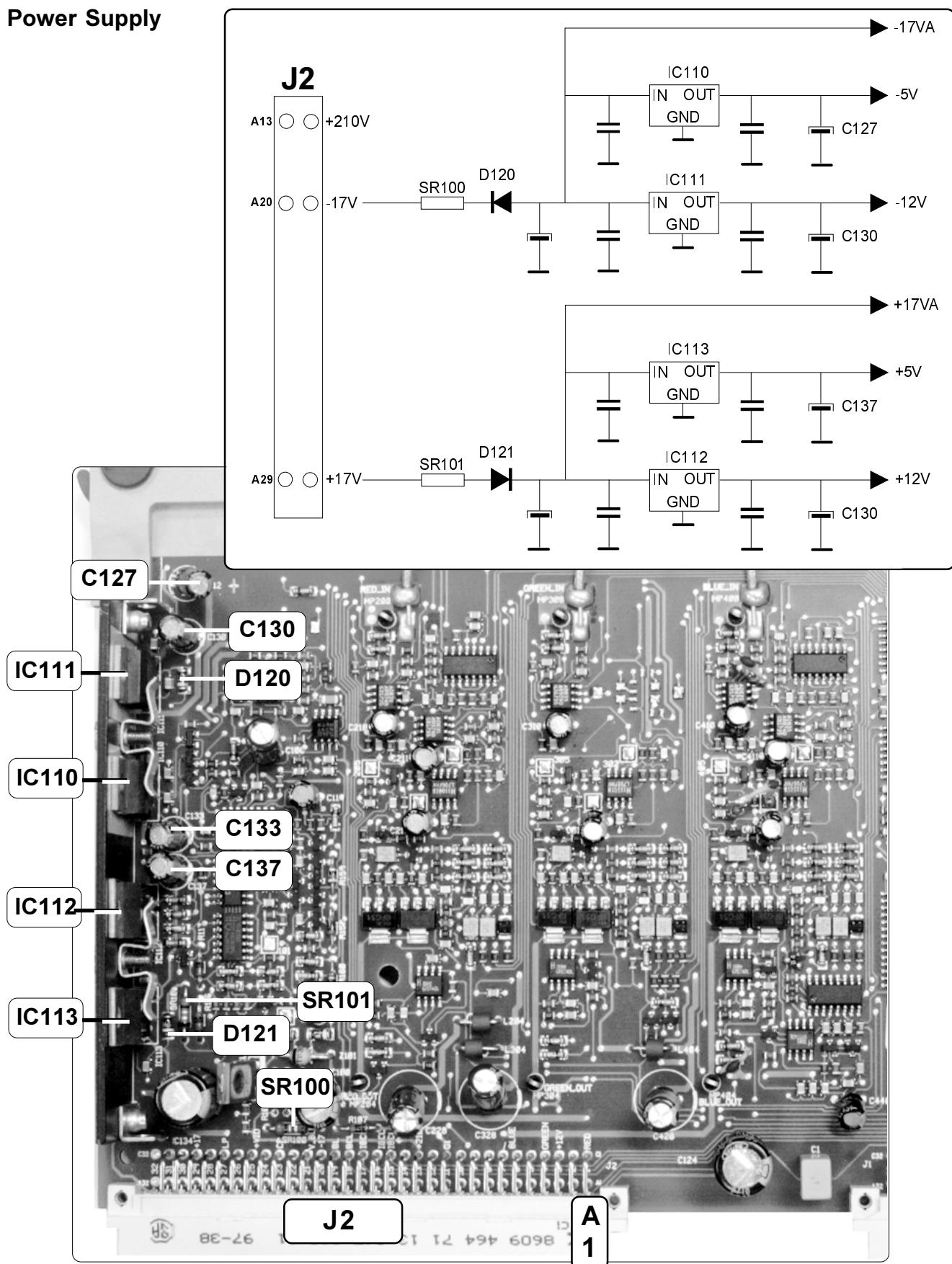


J3*: interconnection with the optional Contrast modulation module

J4*: interconnection with the optional BCL Linking module

J5*: interconnection with the optional Soft Edge module

Power Supply



Technical description of the R-G-B driver R762720

Introduction

The RGB Driver module contains the following parts:

- Red Video driver channel
- Green Video driver channel
- Blue Video driver channel
- Generation of support signals

General.

The black level of the Red, Green and Blue signals have been clamped at zero volt and the amplitude adjusted to 0.7V on the Input board. The signal is now ready to undergo the Brightness and Contrast controls before reaching the video power amplifiers. The optional contrast modulation can also be added to the contrast voltages if implemented.

Furthermore, as a colour temperature adjustment is also possible, the gain and black levels are controllable per colour and tracked in some way to maintain the colour temperature over the full range.

The red, green and blue colours are passing through identical circuits, but, as a gamma correction is implemented, the red and blue channels are a bit different from the green (master) channel. We'll discuss first the green channel and limit the discussion of the red and blue to the differences with the green.

Green video channel.

a) Contrast / Green Gain / Contrast Modulation.

The videosignal is terminated at 50 Ohm with R300 (coax cable is 50 Ohm), clamped at 0V and has an amplitude of 0.7V on the input board. IC301 is an analog multiplier and its output $W = (X_1 - X_2) \times (Y_1 - Y_2) + Z$.

The videosignal at pin Y1 is thus multiplied with the voltage at pin X1, since X2 and Y2 are both at zero level.

The Z input is at this moment connected to ground level, consequently, the black level at the output is also 0V.

The GAIN_GREEN voltage changes from 0.05V ---> 1.2V. This voltage is the result of the general contrast, the individual gain adjustment of the green channel and the contrast modulation board. IC304 (HF A100) amplifies this signal 5.7 times.

b) Brightness / Black level offset controls.

The positive bias voltage obtained by R319/R317 installs a negative black level output in order to use the full output swing of this amplifier. This black level is then again pulled up with R324 and the current generator Q300. C317 means a bypass for the video frequencies.

Via Q301 and R329 the green video is applied to the base of Q302. The latter is, together with Q303/Q304, an non-inverting amplifier with a low impedance drive output, necessary to match the 75 Ohm cable impedance realising the connection with the video output amplifier.

The required biasing current is obtained with R337, which determines together with R340 the gain of this amplifier.

The output signal G_OUT and the current from the DC_GREEN voltage (= black level offset voltage) is compared with the reference of +2V in IC305(2,3,6) during the CP pulse time window.

If, for example, the output voltage is too high, the output of the comparator increases and the current generator Q300 draws less current through R324. The voltage drop across this resistor decreases and compensates the too high DC output level.

c) Peaking adjustment.

By adding an overshoot and undershoot to the video transitions, the picture looks sharper. If these over/undershoots are adjustable in amplitude and width, we can adjust an overshoot matching the bandwidth and the scanning frequency of the signal. If for example the *PEAKING_1* line is high, there is a current flowing in R330/D303/R331 towards the emitter of Q302. The RLC circuit L33/C319/R331 is then in parallel across the emitter resistor. A critically damped sinus peak is seen at the output. *PEAKING_1* gives the smallest peak and must be selected for the highest scanning frequencies.

Three selections are possible related to the scanning frequencies : low / mid and high range.

If no peaking is wanted, R336 means a compensation, in order not to change the gain of this stage.

d) Spot killer.

During operation, the gate of Q301 is at +12V and the latter is fully conducting (5 Ohm resistance). At switching off the projector, the *SPOT_KILL* line is dropped very quickly to 0V and Q301 is immediately blocked. This avoids any undesired voltage peaks that could cause a spot on the CRT.

Red video channel.

The in- and output circuits are identical to the green channel. In between the contrast adjustment and the x 5.7 amplifier, a gamma correction network is incorporated. This gamma correction is based on the red CRT characteristic which is different from the green one.

The relation light output / drive voltage for the red CRT is more linear for the red CRT phosphor than for the green phosphor.

With IC202/IC203 a non-linear correction in the mid-grey zones is now possible.

The (original) video signal is applied to the X1 (pin 8) input of the multiplier IC203. Pin 7 (X2) is fixed at 0.7V with R212/R214.

The same videosignal is, on the other hand, sent through a step attenuator. By switching on one of the switchers of IC202 the video signal is divided with R204, R206, R208, R210 and the common R213. With the *MIDLIGHTS_1, 2, 3, 4* lines one can select between 15 possible steps. The attenuated signal is then applied to the Y2 input whereas the Y1 is at 0V.

The output W, pin 5, is $(X1-X2) \times (Y1-Y2)$.

Assume the input is a linear ramp from 0 -100% or from 0 - 0.7V. The output of the multiplier is then a positive parabola with a maximum at 50% of the ramp and zero at 0 and 100% of the ramp. The amplitude of this parabola is determined by the step attenuator. This parabola is sent to the inverting input of IC204 via R217 and subtracted from the original ramp.

As a result, we obtain a new non-linear ramp where the 50% zone has a decreased amplitude and the 0 and 100% zones are not affected. With this step attenuator, the light output / drive voltage of the red CRT tube can be adjusted to match the green one.

Blue video channel.

a) Gamma correction.

The light output / drive voltage of the blue CRT is less linear than the green one. We can obtain a matching when the polarity of the parabola is inverted compared to the red

one. This is got by swapping the Y1 and Y2 inputs of the multiplier IC403. If we assume again a linear ramp input, the parabola of the output W of IC403 is negative. The final result at output pin 6 of IC404 is a non-linear ramp with an increased amplitude in the grey zones.

b) Blue correction circuit.

The blue phosphor saturates from some drive voltage onwards. This saturation point depends on the CRT phosphor, the spot size, frequency of scanning, temperature, etc...

To resolve this problem, the blue signal undergoes an increased gain from some level onwards (the breakpoint level).

This level can be adjusted by software and is the *BLUE_BRKPNT* voltage. As soon the emitter voltage of Q402 exceeds the *BLUE_BRKPNT* level with 0.3V diode voltage drop), the diode D412 gets forward biased and R456 is added to the emitter load. The slope of the correction is further adjusted by means of the *BLUE_CORR 1,2,3* voltages. This will add to the emitter load one of the feedback resistor(s) R454, R455, R456 or a combination of these.

c) DC stabilisation, additional clamping.

Without further measures, the DC level of the emitter voltage would not be very stable. It is very much temperature dependent and it varies with the bias current through the stage. An additional clamping is required.

This clamper compares the output voltage with the emitter voltage during the *CP* timing window. The output voltage drives Q407 which is part of the biasing resistor (drain connected to -12V).

Q408 provides a lower impedance for the source of Q407, as the current flow through R437 and Q407 depends also on the video signal.

Blanking.

The composite blanking pulses are the result of the sum of different individual blanking informations added together in the NAND IC104 after modelling to the correct TTL amplitude.

If there is no blanking necessary, the output pin 8 of the NAND is low level and this forward biases Q107 and Q109. The current flowing through the latter installs around +11V at the *BL* output.

In case of blanking, the TTL high level output of IC104 forward biases Q108 now and through Q110 the BL output is at around -16V.

D114 - D117 avoid saturation of the transistors and hence improve the switching.
Following blanking informations are an input to the NAND gate IC104 :

- *LP* (line pulses) :

are dropped in amplitude with R116/R117/R140 limited with D102/D103, inverted by IC103 (5,6) and input to pin 1.

(note : the same negative line pulses are inverted again with IC103(1,2) and then referred to as *HFB* to be used in the optional Contrast modulation board.

- *V BL* (Vertical Blanking) :

these pulses are also dropped to TTL level, inverted and applied to pin 2.

- *SPOT_KILL* (pin 5) :

The line SPOT_KILL is +12V during operation and drops to zero level at switching off the projector to blank the picture.

- SCAN FAIL (pin 6):

This line is high when there is no scan fail and drops to zero when scan fail has been detected.

(note : The scan fail condition also drops the SPOT_KILL line to an active low level and hence switches off the video output stages of the UN DRIVE board.

- Supply voltages controls (pin 3,4) :

The +/- 12V and +/-5V supply voltages are checked with the window detector IC105. If one voltage fails or is not within the desired window, the output switches low and the same pins 3, 4 are pulled low level. Note that this will mean a scan fail condition and the SPOT_KILL line will be active as well.

- LEFT/RIGHT blanking :

The blanking pulses for the beginning of the scan (left blanking) are generated by IC108 (output 4) by triggering the monoflop on the positive transition of the *LP* pulses. The output pulse train of pin 13 is integrated with R138/C108 and compared with the *LEFT_BLANKING* voltage. The output of the Miller integrator drives the current source Q104 which determines the pulse width of the blanking pulses.

The pulses for the end of the scan are generated by the other monoflop in IC108. Here, the monoflop is triggered by the negative transition and the positive pulses at pin 5 output are used. Consequently, the low level of these pulses is the blanking time. It is obvious that, in this case, the negative pulses at pin 12 are integrated and the obtained voltage is used to adapt the pulse width in conjunction with the *RIGHT_BLANKING* voltage.

The integration of the pulses (average voltage) means a tracking of the range with the line frequency. The absolute value of the required blanking is much smaller for the higher scanning than for the lower scanning signals.

Another tracking is also got by a correction current via D122 and D124 by switching on Q111 with *HFB* pulses.

I²C Interfacing.

IC100 : the *MIDLIGHTS_RED* and *_BLUE* switching on/off voltages.

IC101 : 3 outputs are the *PEAKING* adjustments.

If no peaking is needed, the three outputs are at approx. -11V and hence Q112 and Q113 are both conducting. The output *NO_PEAKING* is then at about +12V.

As soon one output of a comparator switches to a positive high, due to the resistive dividers R171/R172/R173, the emitter of Q112 jumps at -3.5V and the latter gets blocked. The *NO_PEAKING* line is then at about -5V and D123 is forward biased to keep the impedance of the *NO_PEAKING* line low and avoid distortions in the RGB DRIVE stages.

IC100 uses the same address of IC601 on the INPUT board. The data line SDA of either one of these I²C interfaces can be disconnected via a switching Mosfet. To select this IC100, output port P7 of IC101 must be low level, blocking Q103 and via R113, Q102 is forward biased.

IC109 :

two outputs are used for the Left/Right blankings and VO3 is the Blue breakpoint output. The DC range is corrected with IC102 (8, 9, 10).

7. Spot suppression

There are two actions at switching off the projector :

- via the **G1 grid** :

The G1 grid voltage is at approximately 0V via D101. During normal operation and on condition the +17V is correct (sufficiently high) Q100 is saturated and Q101 is off as its base is lower than 0.6V. The collector of Q101 is then at 150V or the voltage drop across Z101. C100 is consequently charged up to 150V.

At switching off, the +17V drops very quickly to zero and the +210V rather decays slowly. The moment Q100 shuts off and Q101 gets forward biased, the collector of the latter drops to zero and the - of the capacitor C100 drops also instantly with the same amplitude to -150V. The G1's are dropped to -150V and the CRT's are blanked.

- via the **cathodes** (drive voltage) :

The SPOT_KILL line is in normal operation at +12V via R106. When the projector is switched off, the line is dropped to 0V via D100. This zero level cuts the output via the mosfets Q201, Q301, Q401.

Contrast, brightness and gain adjustments

Contrast / Gain.

The general (common) contrast and the individual gain controls are first combined with the (optional) contrast modulation waveforms and as such used in a multiplier (a variable gain amplifier) to adjust the amplitudes.

The contrast voltage is generated by the IC3 VO0 output and ranges from +1V (minimum) to +3V (maximum). The multiplier requires just the opposite, hence, the contrast voltage is inverted by IC5 (8,9,10). R54 and D8 avoid this contrast voltage from exceeding the +3V as this would mean that the multiplier inverts the polarity of the videosignal. This contrast voltage is now three time multiplied with the gain control of each colour. This is realised by using the contrast voltage as the VRP3, VRP2 and VRP1 supply for the potentiometers 1, 2 and 3 of the Bella IC3 and the other end of the potentiometers (VRN*) is connected to the +3V, or the minimum contrast.

The outputs VO1,2,3 are thus the result of the general contrast and the individual gain controls.

The output range of the Bella's is not what is needed by the multipliers. Therefor the OPAMP's / inverters in IC4 adapt the range to 0.05V <--> 1.19V which is the needed range of the multipliers.

BCL / IBCL / Drive modes.

The contrast voltage can be reduced by the *BCL* and *IBCL* informations. The negative *BCL* voltage from the EHT board drives Q2 on from the -0.6V level onwards and this will turn on Q1. The *INTernal CONTRAST* voltage or the *BCL_LINK* voltage cannot further increase in this case.

The *IBCL* voltages are slightly smoothed and compared to an adjustable voltage (*IBCL_VALUE*) from the potentiometer "0" of IC2. This value depends on the Eco / Normal / Boost mode drive, set by software.

As soon an *IBCL_** voltage reaches the *IBCL_VALUE* the corresponding comparator drops the contrast through one or more of the conducting diodes D4, D5, D6.

ABL trigger generator.

The ABL circuits of the RGB video amplifiers are triggered by a pulse of 20 µS and an

amplitude of 12V. This pulse is added to the *IBCL* lines as these lines are not carrying any valid information during this time. The *ABL* pulse is here ac coupled to the lines through C19, C20 and C21.

As the *ABL* trigger pulse is generated on the *UN SYNC+ VERT DEFL* board and superposed on the *V BL* (has an amplitude from 17V - 34V), the *V BL* is dropped by 20V with Z3 and Q3 will conduct during this *V BL* pulse time.

The differentiator C18/R70 drives Q4 into conduction for 20 μ s and via R73/C19, C20, C21 they are AC coupled into the *IBCL* lines.

Brightness / Black Level.

Introduction.

The brightness control is about identical to the contrast. The general brightness is combined with the individual *BLACK_LEVEL_** and the resulting *OUTPUT_DC_** voltage is an offset of the reference black level of +2V.

At 50% brightness setting, the black level of the output signal of the *RGB DRIVE* board must be clamped at +2V. This condition is translated into a 2V output for the potentiometers VO1, VO2, VO3 of IC1 **and** IC2. Only then, there is no current flow in R7, R8, R9, R10, R11 and R12. The +2V *OUTPUT_DC* is now the same as the reference voltage of the inverters/sommators (=comparators) IC205, IC305, IC405.

Circuit Implementation.

As *VRN0* = +3V and *VRP0* = +1V the brightness voltage at VO0 of IC1 changes from +3V (min. brightness) to +1V(max. brightness). This brightness voltage is applied again to the *VRP1,2,3* of three potentiometers in IC1. The other end *VRN1,2,3* of these potentiometers is the reference voltage **+2V**.

These three potentiometers in IC1 obtain the same settings of the gain controls in IC3. If now the brightness voltage is +2V (50%) the outputs VO1,2,3 of IC1 are ALWAYS at +2V, irrelevant the gain setting.

Any change of the brightness and gain settings change the output voltage(s). With above "**gain scaled brightness voltages**" the black level is tracked with the gain adjustment in order not to deteriorate the colour temperature with contrast.

We can however add to these "gain scaled brightness voltages" an extra offset via R10, R11, R12 to adjust the low lights.

Parts listing RGB Driver R762720

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
150	A556392	SPRPCBL12,6D3,8D3,8DUAL	2	C116	P210227	C# Z5U MU 100N Z 50 0805	1
80	R133085	HTSN@A GEN I_SHT CRA 30	0,00014	C117	P210227	C# Z5U MU 100N Z 50 0805	1
160	R34698902	SLVU SHR D 1,2/0,6 BK 20	1	C118	P210227	C# Z5U MU 100N Z 50 0805	1
60	R3631059	SCR Z933 M 3 X 8 SS	2	C119	P210227	C# Z5U MU 100N Z 50 0805	1
50	R3674391	RVT BLND_R3,2C 3,2WSTAL	2	C120	P210227	C# Z5U MU 100N Z 50 0805	1
10	R367699	RVT AVTRON2,5L 8,1 AL	4	C121	P210227	C# Z5U MU 100N Z 50 0805	1
110	R367699	RVT AVTRON2,5L 8,1 AL	2	C122	P210227	C# Z5U MU 100N Z 50 0805	1
100	R722276	LOCK49PCBUNCPL	1	C123	P210227	C# Z5U MU 100N Z 50 0805	1
30	R802629	HTSN G800 RGB PR-AMP	1	C124	R111488	C EL RA 220M M 50E2 85	1
40	R802692	HTSN G800 FIX HTSN		C125	P210227	C# Z5U MU 100N Z 50 0805	1
70	V1330681	HTSN@A TO220 SPG DUAL	2	C126	P210227	C# Z5U MU 100N Z 50 0805	1
151	Z3495427	CBLU COA RG178 BU 50E 400	3	C127	R111532	REPLACED BY V1114855	1
C 1	V1140426	C POMERA 100N K250E2 85		C128	P210227	C# Z5U MU 100N Z 50 0805	1
C 2	P210227	C# Z5U MU 100N Z 50 0805	1	C129	P210227	C# Z5U MU 100N Z 50 0805	1
C 3	P210227	C# Z5U MU 100N Z 50 0805	1	C130	R111532	REPLACED BY V1114855	1
C 4	P210227	C# Z5U MU 100N Z 50 0805	1	C131	P210227	C# Z5U MU 100N Z 50 0805	1
C 5	P210227	C# Z5U MU 100N Z 50 0805	1	C132	P210227	C# Z5U MU 100N Z 50 0805	1
C 6	R111476	C EL RA 47M M 25E2 85		C133	R111532	REPLACED BY V1114855	1
C 7	R111546	C EL RA 1M M 50E2 85		C134	R111488	C EL RA 220M M 50E2 85	1
C 8	R111477	C EL RA 100M M 25E2 85		C135	P210227	C# Z5U MU 100N Z 50 0805	1
C 9	P210227	C# Z5U MU 100N Z 50 0805	1	C136	P210227	C# Z5U MU 100N Z 50 0805	1
C 10	P210227	C# Z5U MU 100N Z 50 0805	1	C137	R111532	REPLACED BY V1114855	1
C 11	P210227	C# Z5U MU 100N Z 50 0805	1	C138	P210021	C# COG MU 100P J 50 0805	1
C 12	P210227	C# Z5U MU 100N Z 50 0805	1	C139	P210227	C# Z5U MU 100N Z 50 0805	1
C 13	P210227	C# Z5U MU 100N Z 50 0805	1	C140	P210227	C# Z5U MU 100N Z 50 0805	1
C 14	P210227	C# Z5U MU 100N Z 50 0805	1	C141	P210227	C# Z5U MU 100N Z 50 0805	1
C 15	P210227	C# Z5U MU 100N Z 50 0805	1	C200	P210227	C# Z5U MU 100N Z 50 0805	1
C 16	P210227	C# Z5U MU 100N Z 50 0805	1	C201	P210227	C# Z5U MU 100N Z 50 0805	1
C 17	P210035	C# X7R MU 1N K 50 0805	1	C202	P210227	C# Z5U MU 100N Z 50 0805	1
C 18	P210106	C# X7R MU 3N9J 50 1206	1	C203	P210091	C# COG MU 1P D 50 0805	1
C 19	P210227	C# Z5U MU 100N Z 50 0805	1	C204	P210130	C# COG MU 2P2D 50 0805	1
C 20	P210227	C# Z5U MU 100N Z 50 0805	1	C205	P210134	C# COG MU 5P6D 50 0805	1
C 21	P210227	C# Z5U MU 100N Z 50 0805	1	C206	P210182	C# COG MU 12P J 50 0805	1
C 22	P210227	C# Z5U MU 100N Z 50 0805	1	C207	P210227	C# Z5U MU 100N Z 50 0805	1
C 23	P210227	C# Z5U MU 100N Z 50 0805	1	C208	P210227	C# Z5U MU 100N Z 50 0805	1
C 24	P210227	C# Z5U MU 100N Z 50 0805	1	C209	P210227	C# Z5U MU 100N Z 50 0805	1
C 25	P210227	C# Z5U MU 100N Z 50 0805	1	C210	R1115935	C EL5 RA 10M M 35E2 85	1
C 26	P210227	C# Z5U MU 100N Z 50 0805	1	C211	R1115935	C EL5 RA 10M M 35E2 85	1
C 27	P210227	C# Z5U MU 100N Z 50 0805	1	C212	P210061	C# COG MU 4P7D 50 0805	1
C 28	P210227	C# Z5U MU 100N Z 50 0805	1	C214	P210133	C# COG MU 3P9D 50 0805	1
C100	R111568	C EL RA 2M2M250E2 85	1	C215	P210227	C# Z5U MU 100N Z 50 0805	1
C101	P210227	C# Z5U MU 100N Z 50 0805	1	C216	P210227	C# Z5U MU 100N Z 50 0805	1
C102	P210227	C# Z5U MU 100N Z 50 0805	1	C217	R1115935	C EL5 RA 10M M 35E2 85	1
C103	P210227	C# Z5U MU 100N Z 50 0805	1	C218	P210227	C# Z5U MU 100N Z 50 0805	1
C104	P210227	C# Z5U MU 100N Z 50 0805	1	C219	P210130	C# COG MU 2P2D 50 0805	1
C105	P210178	C# Y5V MU 1M Z 16 1206	1	C220	P210135	C# COG MU 8P2D 50 0805	1
C106	R111466	C EL RA 100M M 16E2 85		C221	P210182	C# COG MU 12P J 50 0805	1
C107	P210178	C# Y5V MU 1M Z 16 1206	1	C222	P210134	C# COG MU 5P6D 50 0805	1
C108	P210227	C# Z5U MU 100N Z 50 0805	1	C223	P210061	C# COG MU 4P7D 50 0805	1
C109	P210025	C# COG MU 470P J 63 0805	1	C224	P210227	C# Z5U MU 100N Z 50 0805	1
C110	R1115935	C EL5 RA 10M M 35E2 85		C225	P210227	C# Z5U MU 100N Z 50 0805	1
C111	P210041	C# X7R MU 10N K 50 0805	1	C226	P210227	C# Z5U MU 100N Z 50 0805	1
C112	P210227	C# Z5U MU 100N Z 50 0805	1	C227	P210227	C# Z5U MU 100N Z 50 0805	1
C113	P210035	C# X7R MU 1N K 50 0805	1	C228	R111466	C EL RA 100M M 16E2 85	1
C114	P210227	C# Z5U MU 100N Z 50 0805	1	C229	P210019	C# COG MU 47P J 50 0805	1
C115	P210227	C# Z5U MU 100N Z 50 0805	1	C230	P210227	C# Z5U MU 100N Z 50 0805	1
				C231	P210227	C# Z5U MU 100N Z 50 0805	1
				C232	P210227	C# Z5U MU 100N Z 50 0805	1
				C233	P210021	C# COG MU 100P J 50 0805	1
				C234	P210227	C# Z5U MU 100N Z 50 0805	1
				C241	P210227	C# Z5U MU 100N Z 50 0805	1
				C242	P210227	C# Z5U MU 100N Z 50 0805	1
				C245	P201354	R# CE H 0E J 0W12 0805	1
				C247	P210227	C# Z5U MU 100N Z 50 0805	1
				C247	P210227	C# Z5U MU 100N Z 50 0805	1

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SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
C300	P210227	C# Z5U MU 100N Z 50 0805	1	C441	P210227	C# Z5U MU 100N Z 50 0805	1
C301	P210227	C# Z5U MU 100N Z 50 0805	1	C442	P210227	C# Z5U MU 100N Z 50 0805	1
C302	P210227	C# Z5U MU 100N Z 50 0805	1	C443	P210227	C# Z5U MU 100N Z 50 0805	1
C310	R1115935	C EL5 RA 10M M 35E2 85	1	C444	P210227	C# Z5U MU 100N Z 50 0805	1
C312	P210061	C# COG MU 4P7D 50 0805	1	C445	P201354	R# CE H 0E J 0W12 0805	1
C314	P210133	C# COG MU 3P9D 50 0805	1	C446	R112238	C NP0 MI 47P G100E2	1
C315	P210227	C# Z5U MU 100N Z 50 0805	1	C447	P210227	C# Z5U MU 100N Z 50 0805	1
C316	P210227	C# Z5U MU 100N Z 50 0805	1	C447	P210227	C# Z5U MU 100N Z 50 0805	1
C317	R1115935	C EL5 RA 10M M 35E2 85	1	C448	R112230	C NP0 MI 10P G100E2	1
C318	P210227	C# Z5U MU 100N Z 50 0805	1	C448	R112230	C NP0 MI 10P G100E2	1
C319	P210130	C# COG MU 2P2D 50 0805	1	C449	R112238	C NP0 MI 47P G100E2	1
C320	P210135	C# COG MU 8P2D 50 0805	1				
C321	P210182	C# COG MU 12P J 50 0805	1	D 1	P234099	D#4148 R DMMELF	1
C322	P210134	C# COG MU 5P6D 50 0805	1	D 2	P234099	D#4148 R DMMELF	1
C323	P210061	C# COG MU 4P7D 50 0805	1	D 3	P234099	D#4148 R DMMELF	1
C324	P210227	C# Z5U MU 100N Z 50 0805	1	D 4	P234099	D#4148 R DMMELF	1
C325	P210227	C# Z5U MU 100N Z 50 0805	1	D 5	P234099	D#4148 R DMMELF	1
C326	P210227	C# Z5U MU 100N Z 50 0805	1	D 6	P234099	D#4148 R DMMELF	1
C327	P210227	C# Z5U MU 100N Z 50 0805	1	D 7	P234099	D#4148 R DMMELF	1
C328	R111466	C EL RA 100M M 16E2 85	1	D 8	P234099	D#4148 R DMMELF	1
C329	P210019	C# COG MU 47P J 50 0805	1	D 9	P234055	D#BAT54 SCH SOT23	1
C330	P210227	C# Z5U MU 100N Z 50 0805	1	D 10	P234047	D#BAV99 SER SOT23	1
C331	P210227	C# Z5U MU 100N Z 50 0805	1	D 11	P234047	D#BAV99 SER SOT23	1
C332	P210227	C# Z5U MU 100N Z 50 0805	1	D 12	P234047	D#BAV99 SER SOT23	1
C333	P210021	C# COG MU 100P J 50 0805	1	D100	P234196	D#BYD37J AVA SOD87	1
C334	P210227	C# Z5U MU 100N Z 50 0805	1	D101	P234196	D#BYD37J AVA SOD87	1
C345	P201354	R# CE H 0E J 0W12 0805	1	D102	P234099	D#4148 R DMMELF	1
C400	P210227	C# Z5U MU 100N Z 50 0805	1	D103	P234099	D#4148 R DMMELF	1
C401	P210227	C# Z5U MU 100N Z 50 0805	1	D104	P234099	D#4148 R DMMELF	1
C402	P210227	C# Z5U MU 100N Z 50 0805	1	D105	P234099	D#4148 R DMMELF	1
C403	P210091	C# COG MU 1P D 50 0805	1	D106	P234099	D#4148 R DMMELF	1
C404	P210130	C# COG MU 2P2D 50 0805	1	D107	P234099	D#4148 R DMMELF	1
C405	P210134	C# COG MU 5P6D 50 0805	1	D108	P234055	D#BAT54 SCH SOT23	1
C406	P210182	C# COG MU 12P J 50 0805	1	D109	P234099	D#4148 R DMMELF	1
C407	P210227	C# Z5U MU 100N Z 50 0805	1	D111	P234099	D#4148 R DMMELF	1
C408	P210227	C# Z5U MU 100N Z 50 0805	1	D112	P234099	D#4148 R DMMELF	1
C409	P210227	C# Z5U MU 100N Z 50 0805	1	D113	P234099	D#4148 R DMMELF	1
C410	R1115935	C EL5 RA 10M M 35E2 85	1	D114	P234099	D#4148 R DMMELF	1
C411	R1115935	C EL5 RA 10M M 35E2 85	1	D115	P234055	D#BAT54 SCH SOT23	1
C412	P210061	C# COG MU 4P7D 50 0805	1	D116	P234055	D#BAT54 SCH SOT23	1
C414	P210133	C# COG MU 3P9D 50 0805	1	D117	P234099	D#4148 R DMMELF	1
C415	P210227	C# Z5U MU 100N Z 50 0805	1	D118	P234099	D#4148 R DMMELF	1
C416	P210227	C# Z5U MU 100N Z 50 0805	1	D119	P234099	D#4148 R DMMELF	1
C417	R1115935	C EL5 RA 10M M 35E2 85	1	D120	P234196	D#BYD37J AVA SOD87	1
C418	P210227	C# Z5U MU 100N Z 50 0805	1	D121	P234196	D#BYD37J AVA SOD87	1
C419	P210130	C# COG MU 2P2D 50 0805	1	D122	P234004	D#BAV70 C-C SOT23	1
C420	P210135	C# COG MU 8P2D 50 0805	1	D123	P234099	D#4148 R DMMELF	1
C421	P210182	C# COG MU 12P J 50 0805	1	D124	P234004	D#BAV70 C-C SOT23	1
C422	P210134	C# COG MU 5P6D 50 0805	1	D200	P234099	D#4148 R DMMELF	1
C423	P210061	C# COG MU 4P7D 50 0805	1	D201	P234099	D#4148 R DMMELF	1
C424	P210227	C# Z5U MU 100N Z 50 0805	1	D203	P234259	D#BA682 S035A1 DMMELF	1
C425	P210227	C# Z5U MU 100N Z 50 0805	1	D204	P234259	D#BA682 S035A1 DMMELF	1
C426	P210227	C# Z5U MU 100N Z 50 0805	1	D205	P234259	D#BA682 S035A1 DMMELF	1
C427	P210227	C# Z5U MU 100N Z 50 0805	1	D206	P234259	D#BA682 S035A1 DMMELF	1
C428	R111466	C EL RA 100M M 16E2 85	1	D207	P234259	D#BA682 S035A1 DMMELF	1
C429	P210019	C# COG MU 47P J 50 0805	1	D208	P234259	D#BA682 S035A1 DMMELF	1
C430	P210227	C# Z5U MU 100N Z 50 0805	1	D209	P234259	D#BA682 S035A1 DMMELF	1
C431	P210227	C# Z5U MU 100N Z 50 0805	1	D210	P234099	D#4148 R DMMELF	1
C432	P210227	C# Z5U MU 100N Z 50 0805	1	D211	P234099	D#4148 R DMMELF	1
C433	P210021	C# COG MU 100P J 50 0805	1	D300	P234099	D#4148 R DMMELF	1
C434	P210227	C# Z5U MU 100N Z 50 0805	1	D301	P234099	D#4148 R DMMELF	1
C435	P210227	C# Z5U MU 100N Z 50 0805	1	D303	P234259	D#BA682 S035A1 DMMELF	1
C436	P210227	C# Z5U MU 100N Z 50 0805	1	D304	P234259	D#BA682 S035A1 DMMELF	1
C437	P210227	C# Z5U MU 100N Z 50 0805	1	D305	P234259	D#BA682 S035A1 DMMELF	1
C438	P210227	C# Z5U MU 100N Z 50 0805	1	D306	P234259	D#BA682 S035A1 DMMELF	1
C439	P210227	C# Z5U MU 100N Z 50 0805	1	D307	P234259	D#BA682 S035A1 DMMELF	1
C440	R1115935	C EL5 RA 10M M 35E2 85	1	D308	P234259	D#BA682 S035A1 DMMELF	1

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SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
D309	P234259	D#BA682 S035A1 DMMELF	1	L301	P250509	CH# 1.5 UH L1210	1
D310	P234099	D#4148 R DMMELF	1	L302	P250516	CH# 3.3 UH L1210	1
D311	P234099	D#4148 R DMMELF	1	L303	P250005	L# FFECH 0,47M M160	1
D400	P234099	D#4148 R DMMELF	1	L304	R302108	CORE TUBE 3,5/1,3 X 3	1
D401	P234099	D#4148 R DMMELF	1	L304	Z34501104 WU CUSN 0,60 MM	40	1
D403	P234259	D#BA682 S035A1 DMMELF	1	L400	P250005	L# FFECH 0,47M M160	1
D404	P234259	D#BA682 S035A1 DMMELF	1	L401	P250509	CH# 1.5 UH L1210	1
D405	P234259	D#BA682 S035A1 DMMELF	1	L402	P250516	CH# 3.3 UH L1210	1
D406	P234259	D#BA682 S035A1 DMMELF	1	L403	P250005	L# FFECH 0,47M M160	1
D407	P234259	D#BA682 S035A1 DMMELF	1	L404	R302108	CORE TUBE 3,5/1,3 X 3	1
D408	P234259	D#BA682 S035A1 DMMELF	1	L404	Z34501104 WU CUSN 0,60 MM	40	1
D409	P234259	D#BA682 S035A1 DMMELF	1	M102	R313729	J TESTEYE D2.1 H3.1 SN BK	1
D410	P234099	D#4148 R DMMELF	1	M200	R313729	J TESTEYE D2.1 H3.1 SN BK	1
D411	P234099	D#4148 R DMMELF	1	M204	R313729	J TESTEYE D2.1 H3.1 SN BK	1
D412	P234289	D#HSMS2814 SCH SOT23	1	M300	R313729	J TESTEYE D2.1 H3.1 SN BK	1
I 1	P230653	U#BELLA 4 SOL28 P	1	M304	R313729	J TESTEYE D2.1 H3.1 SN BK	1
I 2	P230653	U#BELLA 4 SOL28 P	1	M400	R313729	J TESTEYE D2.1 H3.1 SN BK	1
I 3	P230653	U#BELLA 4 SOL28 P	1	M404	R313729	J TESTEYE D2.1 H3.1 SN BK	1
I 4	P230705	U#34084 MC SOL16 P	1	PC	R780549	PCB G808S RGB DVR	1
I 5	P230328	U#064 TL SO14 I	1	Q 1	P232044	Q#BC859B P SS SOT23	1
I 6	P230328	U#064 TL SO14 I	1	Q 2	P232043	Q#BC849B N SS SOT23	1
I100	P230543	U#8574 PCF SOL16 P	1	Q 3	P232043	Q#BC849B N SS SOT23	1
I101	P230543	U#8574 PCF SOL16 P	1	Q 4	P232044	Q#BC859B P SS SOT23	1
I102	P230328	U#064 TL SO14 I	1	Q100	P232043	Q#BC849B N SS SOT23	1
I103	P230021	U#74HC04 SO14 I	1	Q101	R131471	Q BF458 N P TO126	1
I104	P230206	U#74HC30 SO14 I	1	Q102	P232046	Q#BSS123 F SS SOT23	1
I105	P230028	U#393 LM SO8 P	1	Q103	P232043	Q#BC849B N SS SOT23	1
I106	P230006	U#062 TL SO8 P	1	Q104	P232044	Q#BC859B P SS SOT23	1
I108	P230073	U#74HCT123 SO16 I	1	Q105	P232044	Q#BC859B P SS SOT23	1
I109	P230653	U#BELLA 4 SOL28 P	1	Q106	P232043	Q#BC849B N SS SOT23	1
I110	R134011	U 7905C TO220 P	1	Q107	P232043	Q#BC849B N SS SOT23	1
I111	R134016	U 7912 TO220 P	1	Q108	P232044	Q#BC859B P SS SOT23	1
I112	R134002	U 7812 TO220 P	1	Q109	P232044	Q#BC859B P SS SOT23	1
I113	R134001	U 7805 TO220 P	1	Q110	P232043	Q#BC849B N SS SOT23	1
I201	P231489	U#835 AD SO8 I	1	Q111	P232079	Q#BSS84 F SS SOT23	1
I202	P231526	U#541 DG SO16 I	1	Q112	P232043	Q#BC849B N SS SOT23	1
I203	P231489	U#835 AD SO8 I	1	Q113	P232044	Q#BC859B P SS SOT23	1
I204	P231233	U#1100 HFA SO8 I	1	Q200	P232079	Q#BSS84 F SS SOT23	1
I205	P230100	U#3080 CA SO8 P	1	Q201	P232046	Q#BSS123 F SS SOT23	1
I301	P231489	U#835 AD SO8 I	1	Q202	P232090	Q#BFR92A N SS SOT23	1
I304	P231233	U#1100 HFA SO8 I	1	Q203	P232109	Q#BFG31 P SS SOT223	1
I305	P230100	U#3080 CA SO8 P	1	Q204	P232109	Q#BFG31 P SS SOT223	1
I401	P231489	U#835 AD SO8 I	1	Q205	P232044	Q#BC859B P SS SOT23	1
I402	P231526	U#541 DG SO16 I	1	Q300	P232079	Q#BSS84 F SS SOT23	1
I403	P231489	U#835 AD SO8 I	1	Q301	P232046	Q#BSS123 F SS SOT23	1
I404	P231233	U#1100 HFA SO8 I	1	Q302	P232090	Q#BFR92A N SS SOT23	1
I405	P230100	U#3080 CA SO8 P	1	Q303	P232109	Q#BFG31 P SS SOT223	1
I406	P230100	U#3080 CA SO8 P	1	Q304	P232109	Q#BFG31 P SS SOT223	1
I407	P231526	U#541 DG SO16 I	1	Q305	P232044	Q#BC859B P SS SOT23	1
J 1	R313531	J EUR2C MBS P64 E1C3S 1,6	1	Q400	P232079	Q#BSS84 F SS SOT23	1
J 2	R313531	J EUR2C MBS P64 E1C3S 1,6	1	Q401	P232046	Q#BSS123 F SS SOT23	1
J 3	R313932	J CT H MBT P12 M2SN WH	1	Q402	P232090	Q#BFR92A N SS SOT23	1
J 4	R313929	J CT H MBT P 9 M2SN WH	1	Q403	P232109	Q#BFG31 P SS SOT223	1
J 5	R313928	J CT H MBT P 8 M2SN WH	1	Q404	P232109	Q#BFG31 P SS SOT223	1
J250	V3136372	J MD1 C FBTP 2 E1SN 8,5	1	Q405	P232044	Q#BC859B P SS SOT23	1
J350	V3136372	J MD1 C FBTP 2 E1SN 8,5	1	Q406	P232044	Q#BC859B P SS SOT23	1
J450	V3136372	J MD1 C FBTP 2 E1SN 8,5	1	Q407	P232079	Q#BSS84 F SS SOT23	1
L200	P250005	L# FFECH 0,47M M160	1	Q408	P232043	Q#BC849B N SS SOT23	1
L201	P250509	CH# 1.5 UH L1210	1	R 1	P201057	R# CE H 56E F 0W12 0805	1
L202	P250516	CH# 3.3 UH L1210	1	R 2	P201057	R# CE H 56E F 0W12 0805	1
L203	P250005	L# FFECH 0,47M M160	1	R 3	P201079	R# CE H470E F 0W12 0805	1
L204	R302108	CORE TUBE 3,5/1,3 X 3	1	R 4	P201055	R# CE H 47E F 0W12 0805	1
L204	Z34501104	WU CUSN 0,60 MM 40	1	R 5	P201079	R# CE H470E F 0W12 0805	1
L300	P250005	L# FFECH 0,47M M160	1				

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
R 6	P201055	R# CE H 47E F 0W12 0805	1	R102	P201139	R# CE H150K F 0W12 0805	1
R 7	P201087	R# CE H 1K F 0W12 0805	1	R103	P201139	R# CE H150K F 0W12 0805	1
R 8	P201087	R# CE H 1K F 0W12 0805	1	R104	R101557	R MF H 56K F 0W4 E3	1
R 9	P201087	R# CE H 1K F 0W12 0805	1	R105	R101557	R MF H 56K F 0W4 E3	1
R 10	P201107	R# CE H 6K8 F 0W12 0805	1	R106	P201111	R# CE H 10K F 0W12 0805	1
R 11	P201107	R# CE H 6K8 F 0W12 0805	1	R107	R101524	R MF H100E F 0W4 E3	1
R 12	P201107	R# CE H 6K8 F 0W12 0805	1	R108	P201079	R# CE H470E F 0W12 0805	1
R 16	P201084	R# CE H750E F 0W12 0805	1	R109	P201055	R# CE H 47E F 0W12 0805	1
R 18	P201084	R# CE H750E F 0W12 0805	1	R110	P201079	R# CE H470E F 0W12 0805	1
R 20	P201084	R# CE H750E F 0W12 0805	1	R111	P201135	R# CE H100K F 0W12 0805	1
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R 23	P201118	R# CE H 20K F 0W12 0805	1	R113	P201111	R# CE H 10K F 0W12 0805	1
R 24	P201079	R# CE H470E F 0W12 0805	1	R114	P201055	R# CE H 47E F 0W12 0805	1
R 25	P201055	R# CE H 47E F 0W12 0805	1	R115	P201079	R# CE H470E F 0W12 0805	1
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R 38	P201119	R# CE H 22K F 0W12 0805	1	R127	P201114	R# CE H 13K F 0W12 0805	1
R 39	P201099	R# CE H 3K3 F 0W12 0805	1	R128	P201116	R# CE H 16K F 0W12 0805	1
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R 45	P201103	R# CE H 4K7 F 0W12 0805	1	R134	P201143	R# CE H220K F 0W12 0805	1
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R 48	P201119	R# CE H 22K F 0W12 0805	1	R137	P201067	R# CE H150E F 0W12 0805	1
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R 62	P201127	R# CE H 47K F 0W12 0805	1	R152	P201075	R# CE H330E F 0W12 0805	1
R 63	P201138	R# CE H130K F 0W12 0805	1	R153	P201075	R# CE H330E F 0W12 0805	1
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R 66	P201103	R# CE H 4K7 F 0W12 0805	1	R156	P201071	R# CE H220E F 0W12 0805	1
R 67	P201087	R# CE H 1K F 0W12 0805	1	R157	P201071	R# CE H220E F 0W12 0805	1
R 68	P201111	R# CE H 10K F 0W12 0805	1	R158	R101524	R MF H100E F 0W4 E3	1
R 69	P201095	R# CE H 2K2 F 0W12 0805	1	R159	R101520	R MF H 47E F 0W4 E3	1
R 70	P201087	R# CE H 1K F 0W12 0805	1	R160	R101520	R MF H 47E F 0W4 E3	1
R 71	P201111	R# CE H 10K F 0W12 0805	1	R161	P201079	R# CE H470E F 0W12 0805	1
R 72	P201095	R# CE H 2K2 F 0W12 0805	1	R162	P201055	R# CE H 47E F 0W12 0805	1
R 73	P201063	R# CE H100E F 0W12 0805	1	R164	P201157	R# CE H820K F 0W12 0805	1
R 74	P201091	R# CE H 1K5 F 0W12 0805	1	R165	P201111	R# CE H 10K F 0W12 0805	1
R 75	P201088	R# CE H 1K1 F 0W12 0805	1	R166	P201111	R# CE H 10K F 0W12 0805	1
R 76	P201111	R# CE H 10K F 0W12 0805	1	R167	P201103	R# CE H 4K7 F 0W12 0805	1
R 77	P201079	R# CE H470E F 0W12 0805	1	R168	P201129	R# CE H 56K F 0W12 0805	1
R 78	R101544	R MF H 4K7 F 0W4 E3	1	R169	P201124	R# CE H 36K F 0W12 0805	1
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R-G-B Driver

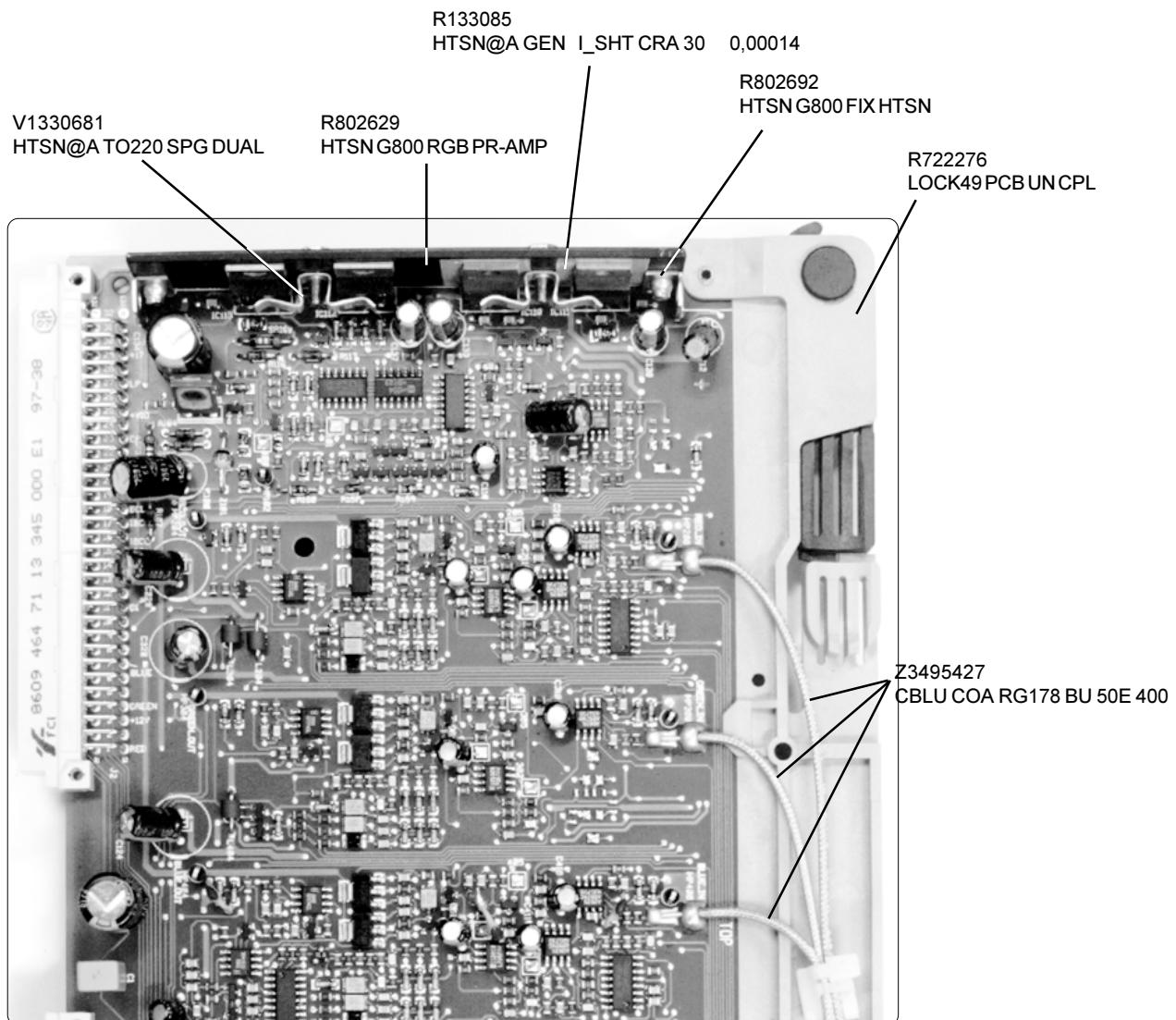
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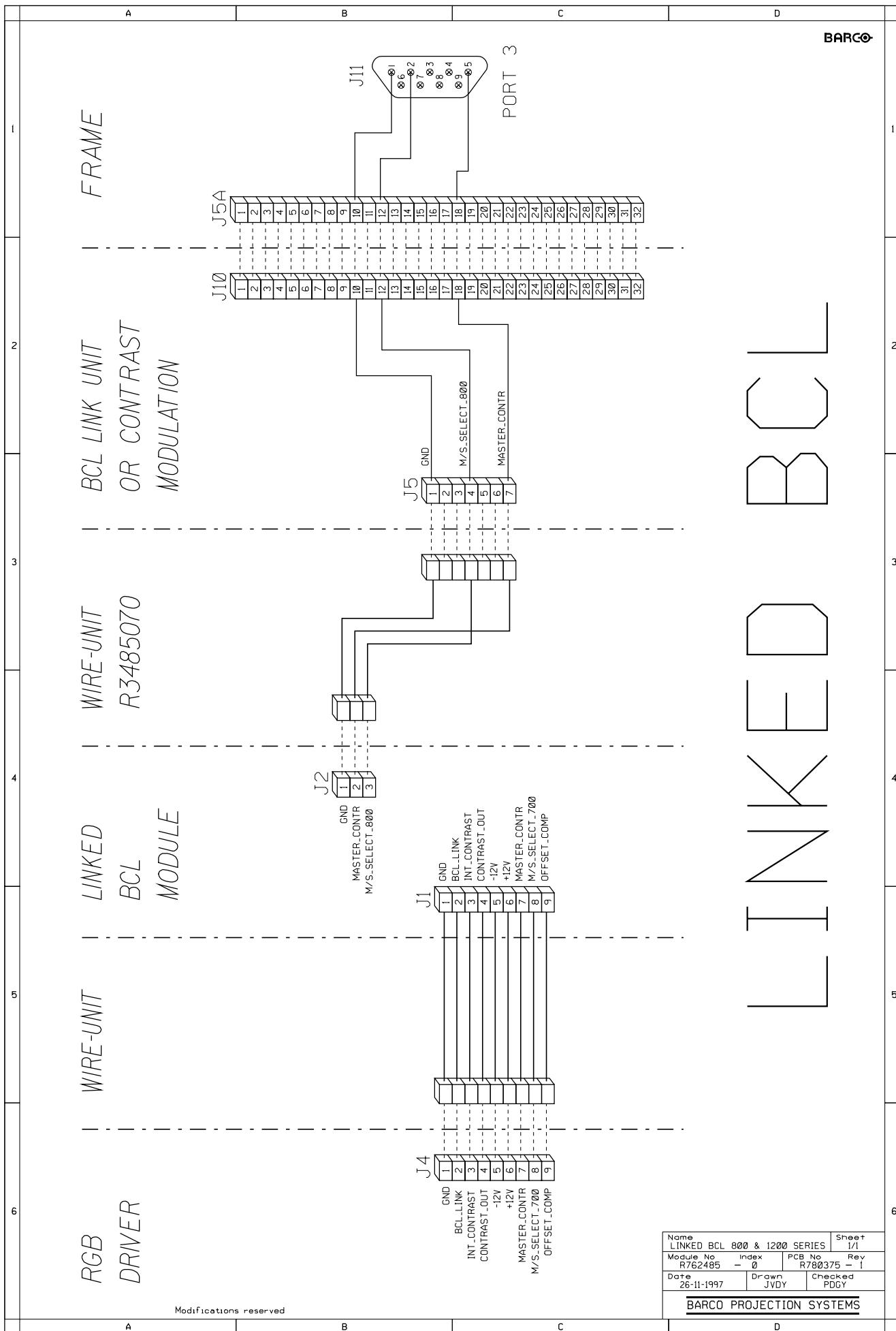
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R174	P201127	R# CE H 47K F 0W12 0805	1	R331	P201078	R# CE H430E F 0W12 0805	1
R200	P201056	R# CE H 51E F 0W12 0805	1	R332	P201111	R# CE H 10K F 0W12 0805	1
R201	P200693	R# CE H 4E7 J 0W12 0805	1	R333	P201080	R# CE H510E F 0W12 0805	1
R202	P201063	R# CE H100E F 0W12 0805	1	R334	P201111	R# CE H 10K F 0W12 0805	1
R203	P200693	R# CE H 4E7 J 0W12 0805	1	R335	P201083	R# CE H680E F 0W12 0805	1
R204	P201099	R# CE H 3K3 F 0W12 0805	1	R336	P201111	R# CE H 10K F 0W12 0805	1
R205	P201031	R# CE H 4E7 F 0W12 0805	1	R337	P201087	R# CE H 1K F 0W12 0805	1
R206	P201089	R# CE H 1K2 F 0W12 0805	1	R338	P201075	R# CE H330E F 0W12 0805	1
R207	P201031	R# CE H 4E7 F 0W12 0805	1	R339	P201135	R# CE H100K F 0W12 0805	1
R208	P201083	R# CE H680E F 0W12 0805	1	R340	P201079	R# CE H470E F 0W12 0805	1
R209	P201031	R# CE H 4E7 F 0W12 0805	1	R341	P201061	R# CE H 82E F 0W12 0805	1
R210	P201073	R# CE H270E F 0W12 0805	1	R342	P201039	R# CE H 10E F 0W12 0805	1
R211	P201031	R# CE H 4E7 F 0W12 0805	1	R343	P201039	R# CE H 10E F 0W12 0805	1
R212	P201088	R# CE H 1K1 F 0W12 0805	1	R344	P201087	R# CE H 1K F 0W12 0805	1
R213	P201071	R# CE H220E F 0W12 0805	1	R345	P201063	R# CE H100E F 0W12 0805	1
R214	P201107	R# CE H 6K8 F 0W12 0805	1	R346	P201103	R# CE H 4K7 F 0W12 0805	1
R215	P200693	R# CE H 4E7 J 0W12 0805	1	R347	P201103	R# CE H 4K7 F 0W12 0805	1
R216	P200693	R# CE H 4E7 J 0W12 0805	1	R400	P201056	R# CE H 51E F 0W12 0805	1
R217	P201066	R# CE H130E F 0W12 0805	1	R401	P200693	R# CE H 4E7 J 0W12 0805	1
R218	P201135	R# CE H100K F 0W12 0805	1	R402	P201063	R# CE H100E F 0W12 0805	1
R219	P201086	R# CE H910E F 0W12 0805	1	R403	P200693	R# CE H 4E7 J 0W12 0805	1
R220	P201057	R# CE H 56E F 0W12 0805	1	R404	P201099	R# CE H 3K3 F 0W12 0805	1
R221	P200693	R# CE H 4E7 J 0W12 0805	1	R405	P201031	R# CE H 4E7 F 0W12 0805	1
R222	P200693	R# CE H 4E7 J 0W12 0805	1	R406	P201089	R# CE H 1K2 F 0W12 0805	1
R223	P201079	R# CE H470E F 0W12 0805	1	R407	P201031	R# CE H 4E7 F 0W12 0805	1
R224	P201095	R# CE H 2K2 F 0W12 0805	1	R408	P201083	R# CE H680E F 0W12 0805	1
R225	P201079	R# CE H470E F 0W12 0805	1	R409	P201031	R# CE H 4E7 F 0W12 0805	1
R226	P201079	R# CE H470E F 0W12 0805	1	R410	P201073	R# CE H270E F 0W12 0805	1
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R237	P201087	R# CE H 1K F 0W12 0805	1	R421	P200693	R# CE H 4E7 J 0W12 0805	1
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R239	P201135	R# CE H100K F 0W12 0805	1	R423	P201079	R# CE H470E F 0W12 0805	1
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R242	P201039	R# CE H 10E F 0W12 0805	1	R426	P201079	R# CE H470E F 0W12 0805	1
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R245	P201063	R# CE H100E F 0W12 0805	1	R429	P201063	R# CE H100E F 0W12 0805	1
R246	P201103	R# CE H 4K7 F 0W12 0805	1	R430	P201111	R# CE H 10K F 0W12 0805	1
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R302	P201063	R# CE H100E F 0W12 0805	1	R434	P201111	R# CE H 10K F 0W12 0805	1
R303	P200693	R# CE H 4E7 J 0W12 0805	1	R435	P201083	R# CE H680E F 0W12 0805	1
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R318	P201135	R# CE H100K F 0W12 0805	1	R437	P201087	R# CE H 1K F 0W12 0805	1
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R323	P201079	R# CE H470E F 0W12 0805	1	R442	P201039	R# CE H 10E F 0W12 0805	1
R324	P201095	R# CE H 2K2 F 0W12 0805	1	R443	P201039	R# CE H 10E F 0W12 0805	1
R325	P201079	R# CE H470E F 0W12 0805	1	R444	P201087	R# CE H 1K F 0W12 0805	1
R326	P201079	R# CE H470E F 0W12 0805	1	R445	P201063	R# CE H100E F 0W12 0805	1
R327	P201139	R# CE H150K F 0W12 0805	1	R446	P201103	R# CE H 4K7 F 0W12 0805	1
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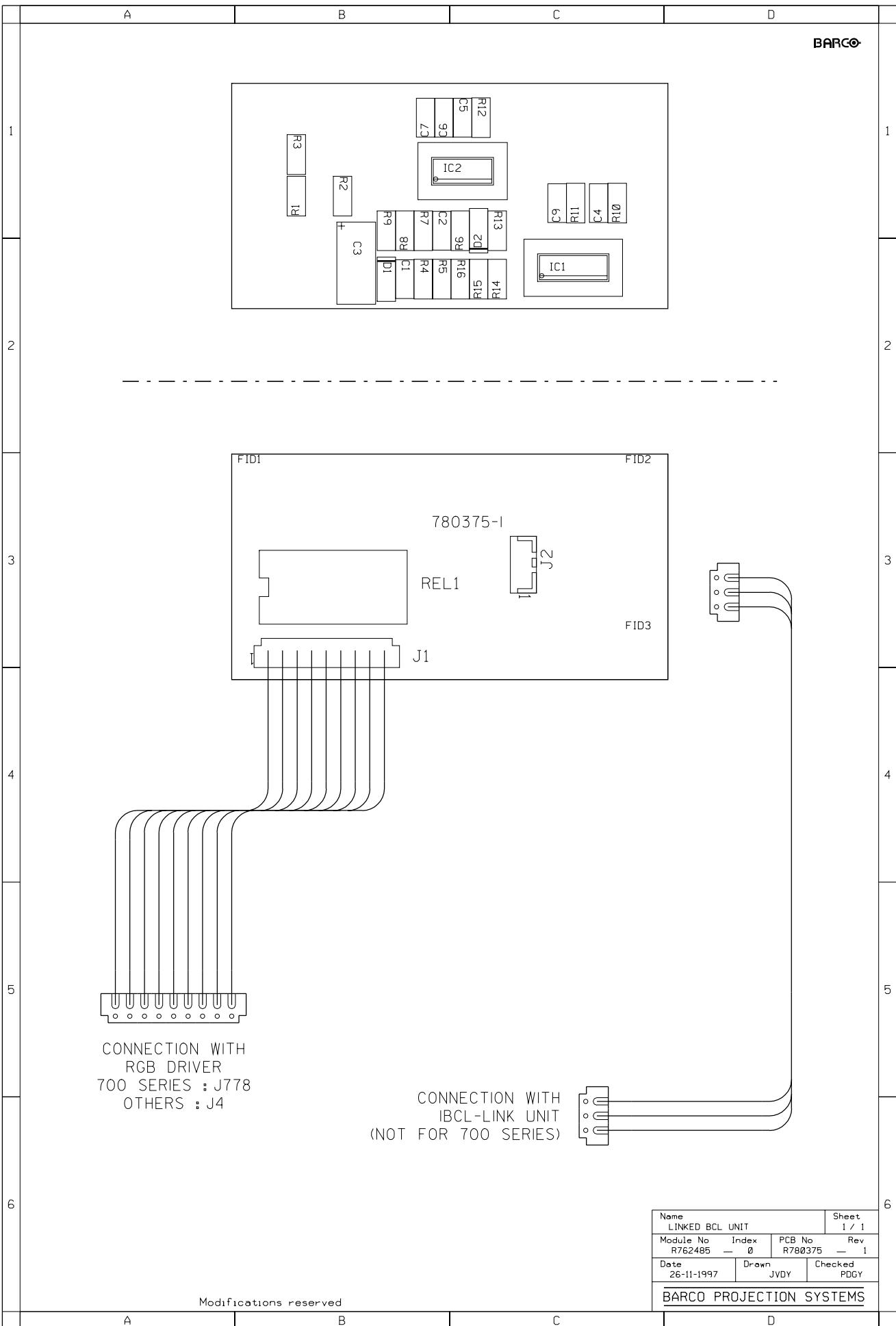
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R450	P201105	R# CE H 5K6 F 0W12 0805	1	Z 1	P234164	D#ZEN 5V6 0W5 C DMMELF	1
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R453	P201039	R# CE H 10E F 0W12 0805	1	Z100	P234089	D#ZEN 13V 0W5 C DMMELF	1
R454	P201088	R# CE H 1K1 F 0W12 0805	1	Z101	R131771	D ZEN 150V 3W25 C SOD57	1
R455	P201093	R# CE H 1K8 F 0W12 0805	1				
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R457	P200693	R# CE H 4E7 J 0W12 0805	1				
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PRODUCT SAFETY NOTICE

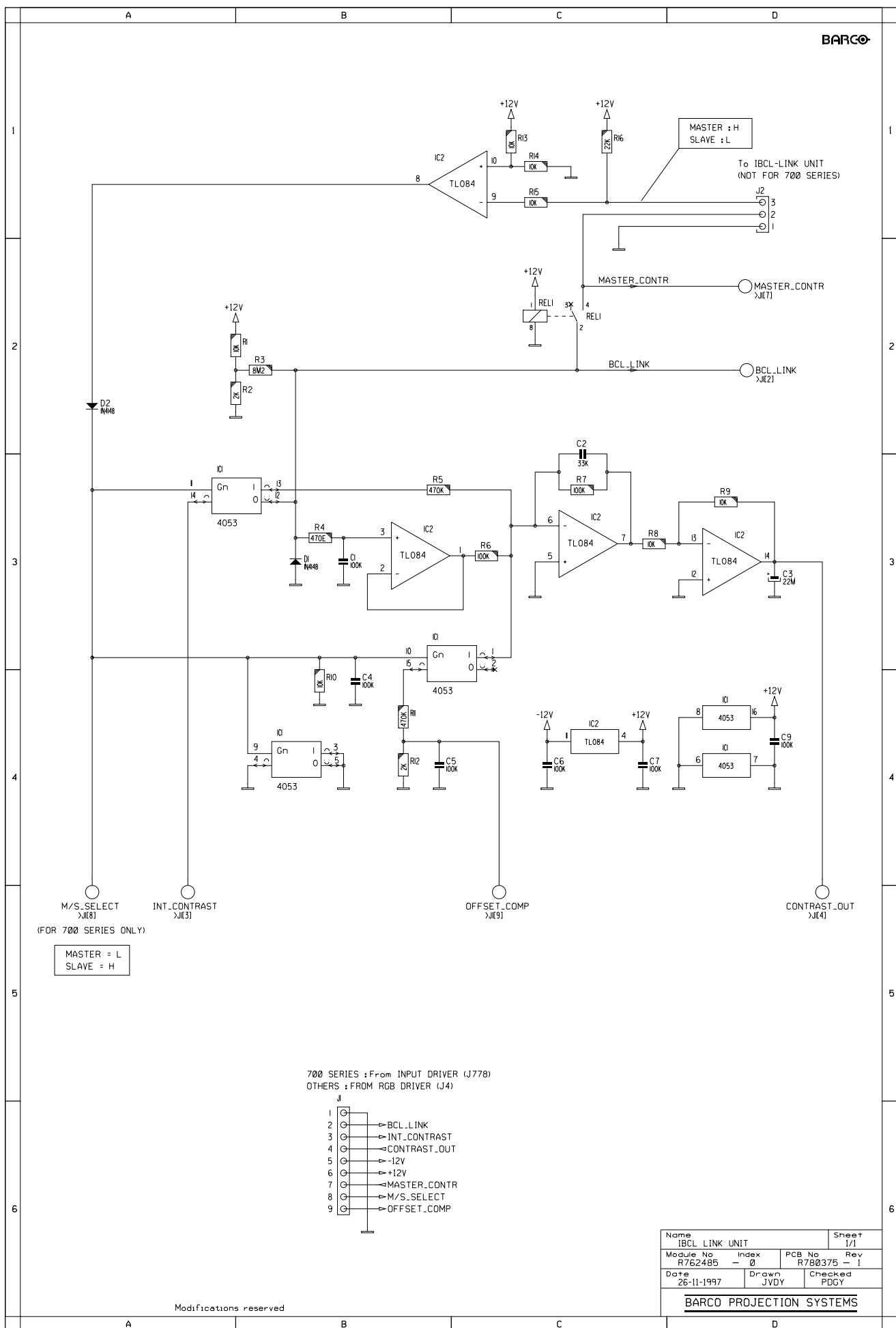
Components identified by  have SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. Before replacing any of these components, read carefully the service safety precautions.

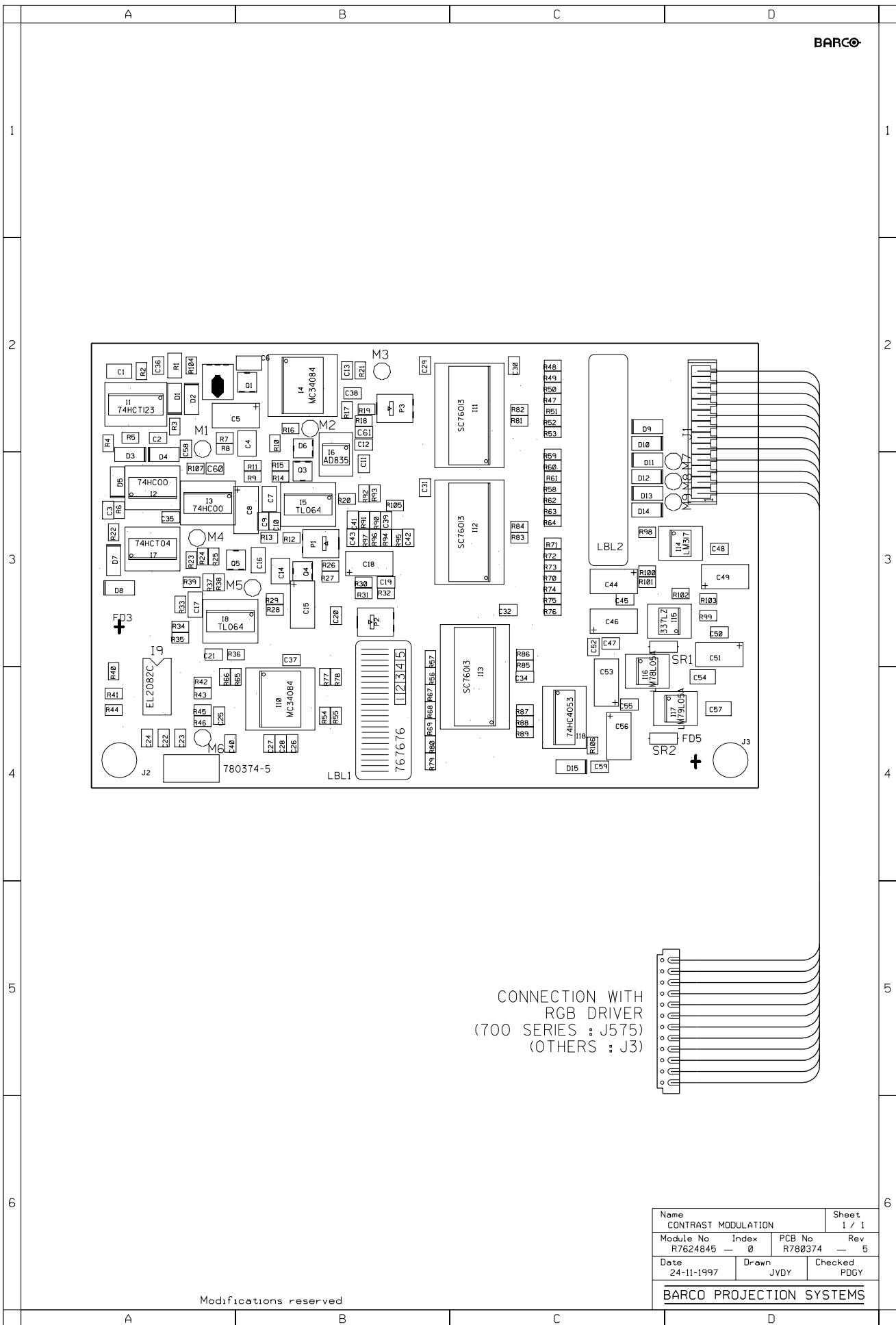




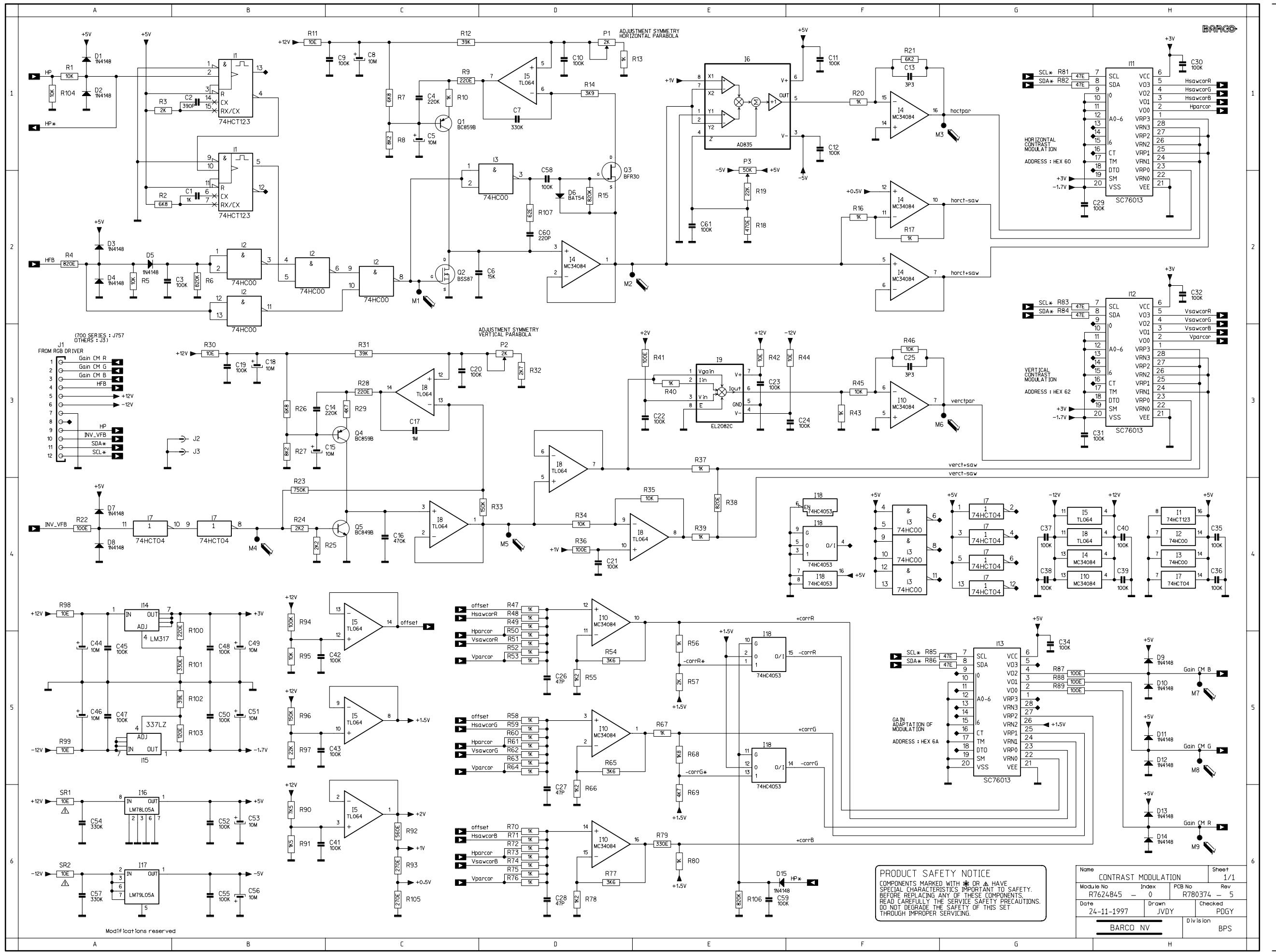


Modifications reserved





Modifications reserved



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C3	Q3	C3	C3
C4	Q4	C4	C4
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C9	Q9	C9	C9
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