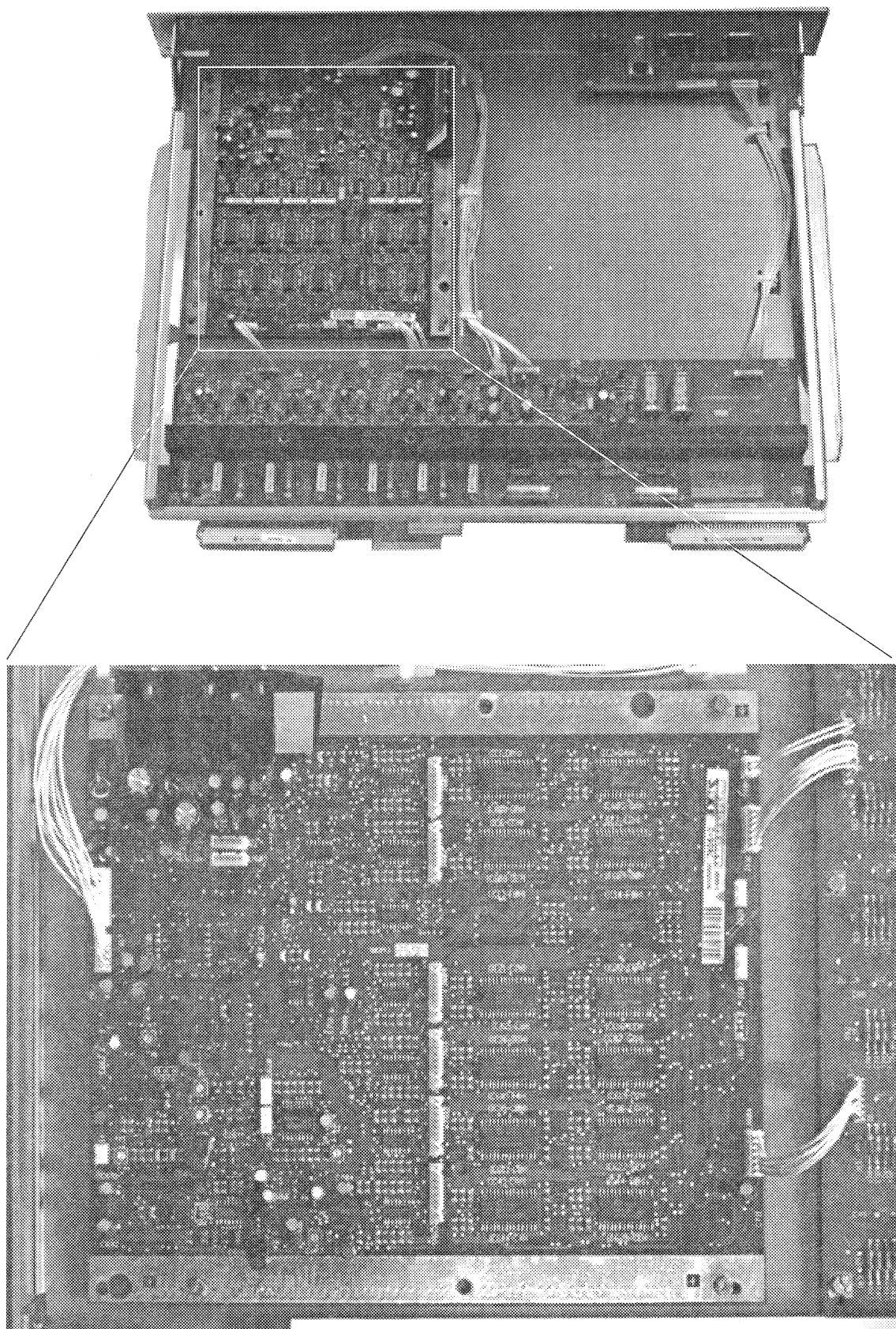
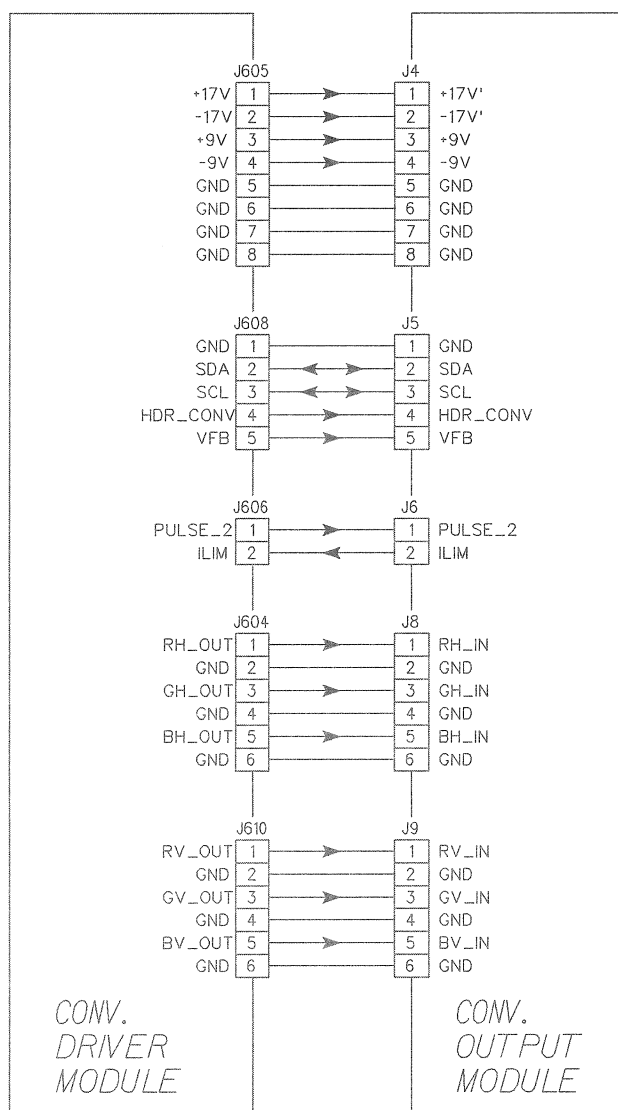
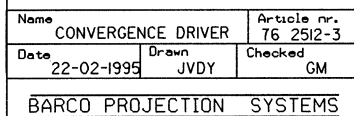

Convergence module (DRIVER)

GREEN Convergence module

R762512
R7625128







Modifications reserved

COMP.	LOC.	COMP.	LOC.	COMP.	LOC.	COMP.	LOC.	COMP.	LOC.
C1	B 5	C646	B 2	IC622	G 2	R94	F 3	R264	C 2
C2	C 4	C649	C 2	IC623	G 4	R95	F 3	R266	B 4
C3	C 4	C650	G 5	IC624	G 3	R96	F 3	R267	B 4
C4	E 4	C651	B 5	IC625	G 2	R97	F 2	R268	B 4
C5	E 3	C652	F 4	IC626	G 4	R98	F 2	R269	B 4
C6	E 3	C654	B 2			R99	F 2	R270	B 4
C7	B 5	C655	A 5	J1	E 5	R100	B 2	R271	B 4
C8	E 4	C656	B 2	J601	E 3	R102	C 5	R272	B 4
C9	C 3	C655	G 4	J602	E 3	R103	F 5	R273	B 4
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C11	E 4	C661	F 3	J604	G 2	R105	B 5	R275	A 3
C12	C 5	C662	F 5	J605	E 5	R106	C 5	R276	A 2
C13	B 5	C663	B 5	J606	E 2	R107	C 5	R277	A 2
C14	B 5	C664	C 3	J607	F 2	R108	B 4	R278	A 4
C15	C 4	C665	E 3	J608	F 5	R109	C 4	R279	A 5
C16	B 5	C666	B 5	J609	F 3	R110	F 4	R280	A 4
C17	B 4	C668	C 5	J610	E 2	R11	B 2	R281	G 4
C18	C 3	C669	C 2	J611	F 3	R12	B 2	R282	A 5
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C20	B 5	C672	C 3	J613	G 3	R14	F 4	R284	G 4
C21	B 5	C674	C 3	J614	E 5	R15	G 5	R285	A 4
C22	F 4	C675	F 3	J615	G 5	R16	B 2	R286	G 4
C23	C 4	C677	G 4	J616	E 5	R18	B 4	R287	A 4
C24	C 3	C678	G 4	J617	F 2	R19	F 4	R288	C 4
C25	A 3	C679	A 5	J618	F 2	R20	F 4	R289	A 5
C26	G 5	C680	B 3	J619	G 5	R21	B 4	R290	A 4
C27	G 5	C681	B 3	J620	F 4	R22	B 3	R291	A 4
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C40	C 5	C699	B 3			R35	B 2	R305	B 5
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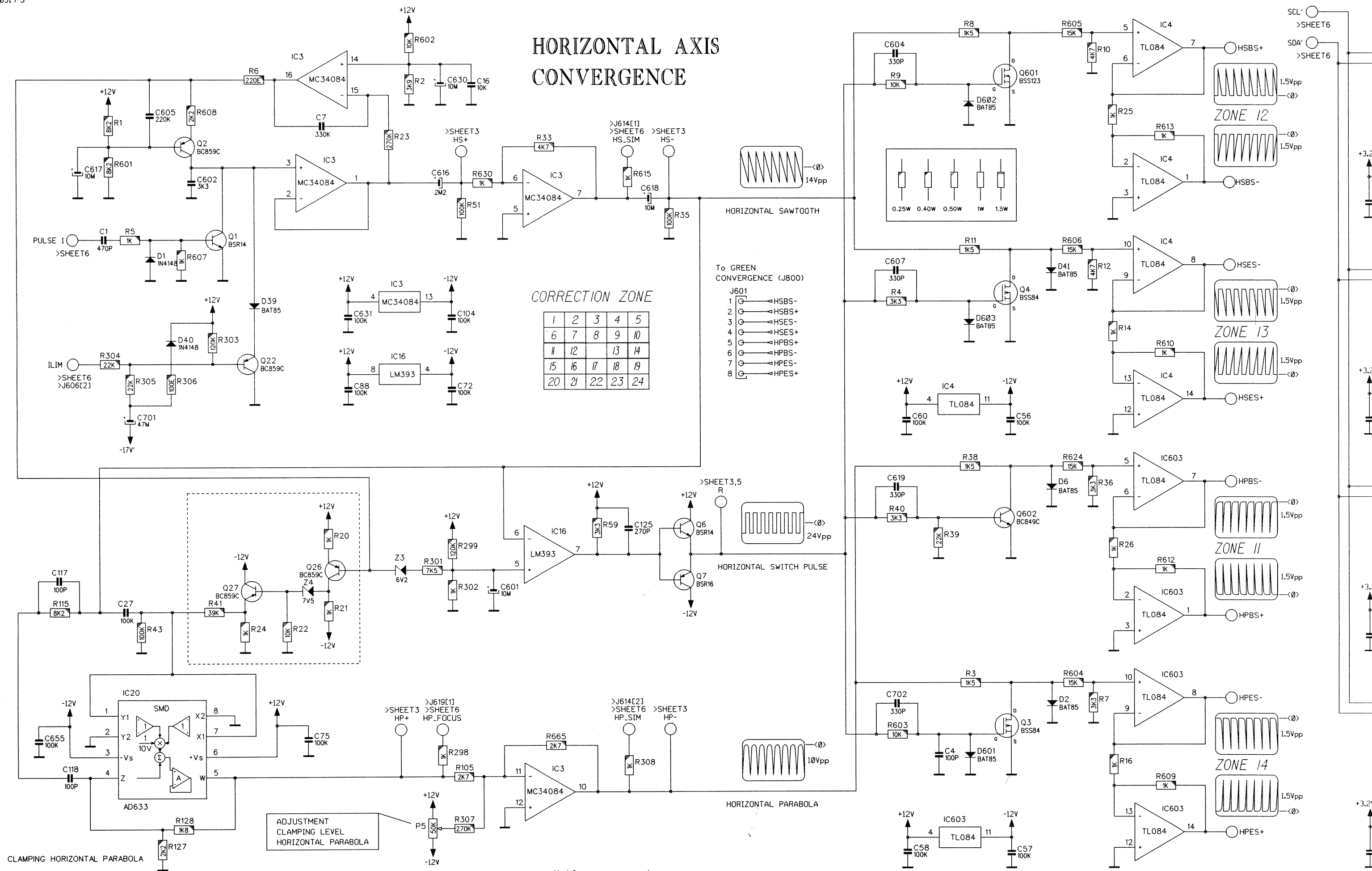
HORIZONTAL AXIS
CONVERGENCE

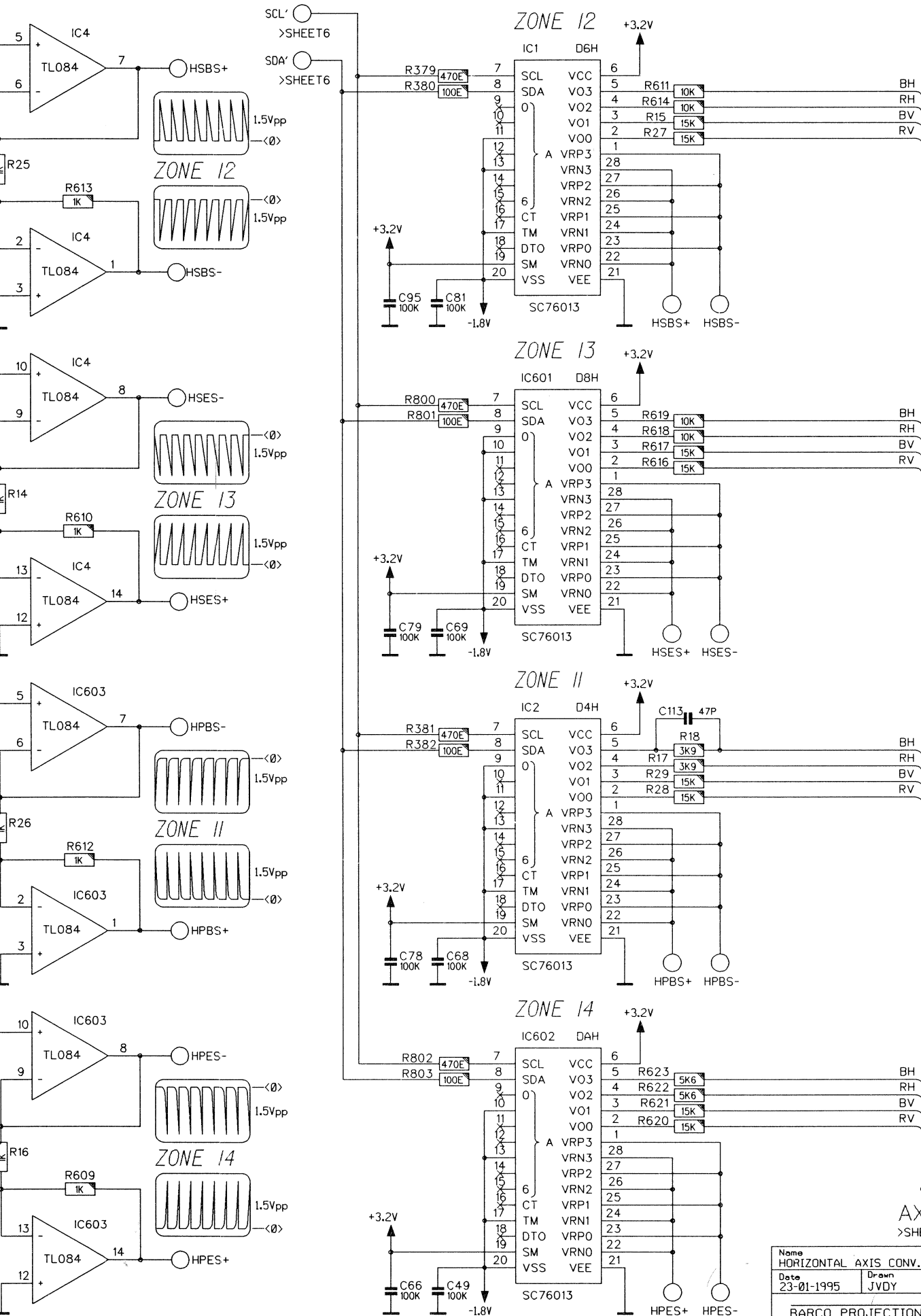
CORRECTION ZONE

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To GREEN
CONVERGENCE (J800)

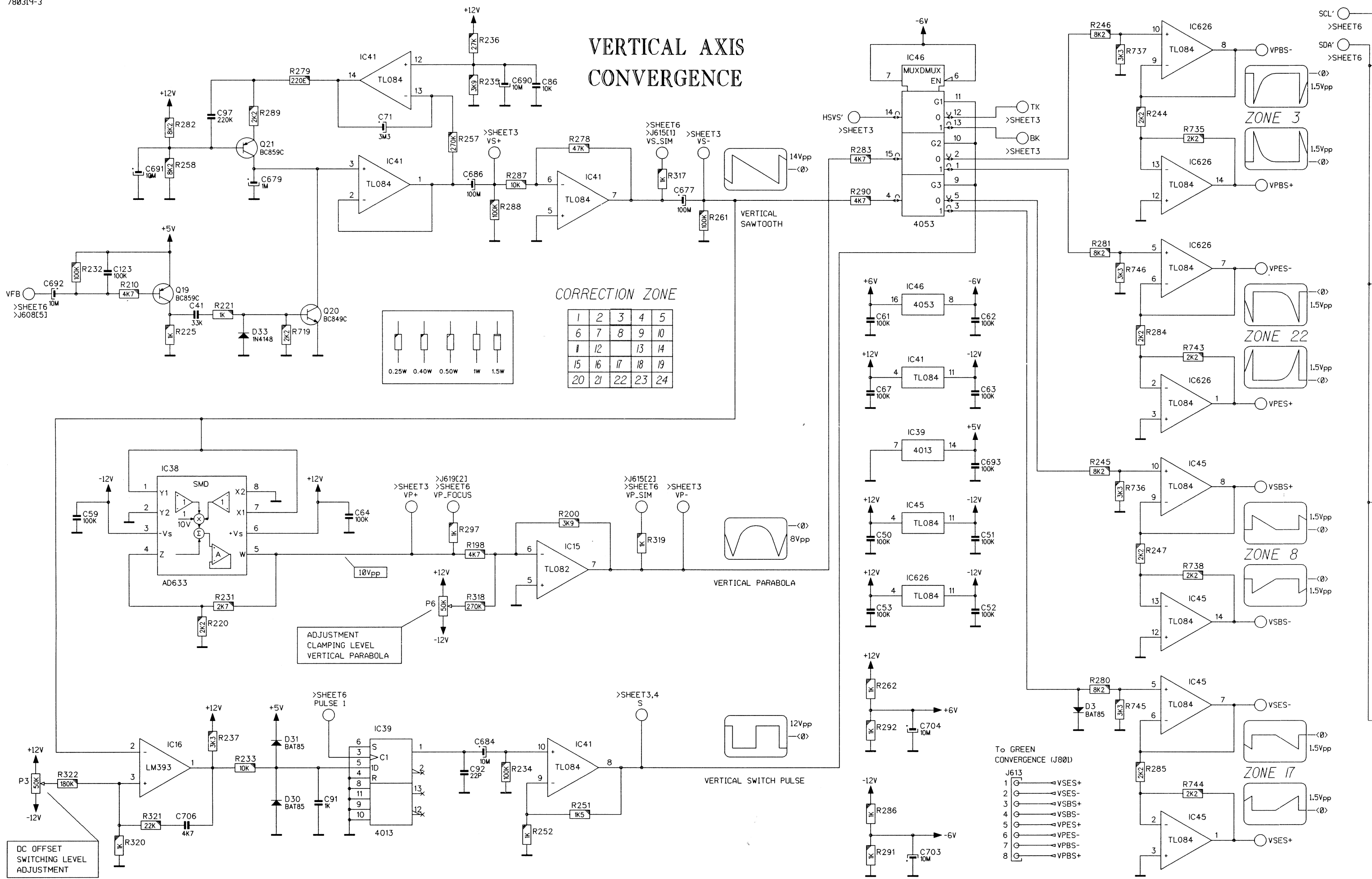
J601	1	2	3	4	5
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2	→	HSBS+			
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4	→	HSES+			
5	→	HPBS+			
6	→	HPBS-			
7	→	HPES-			
8	→	HPES+			

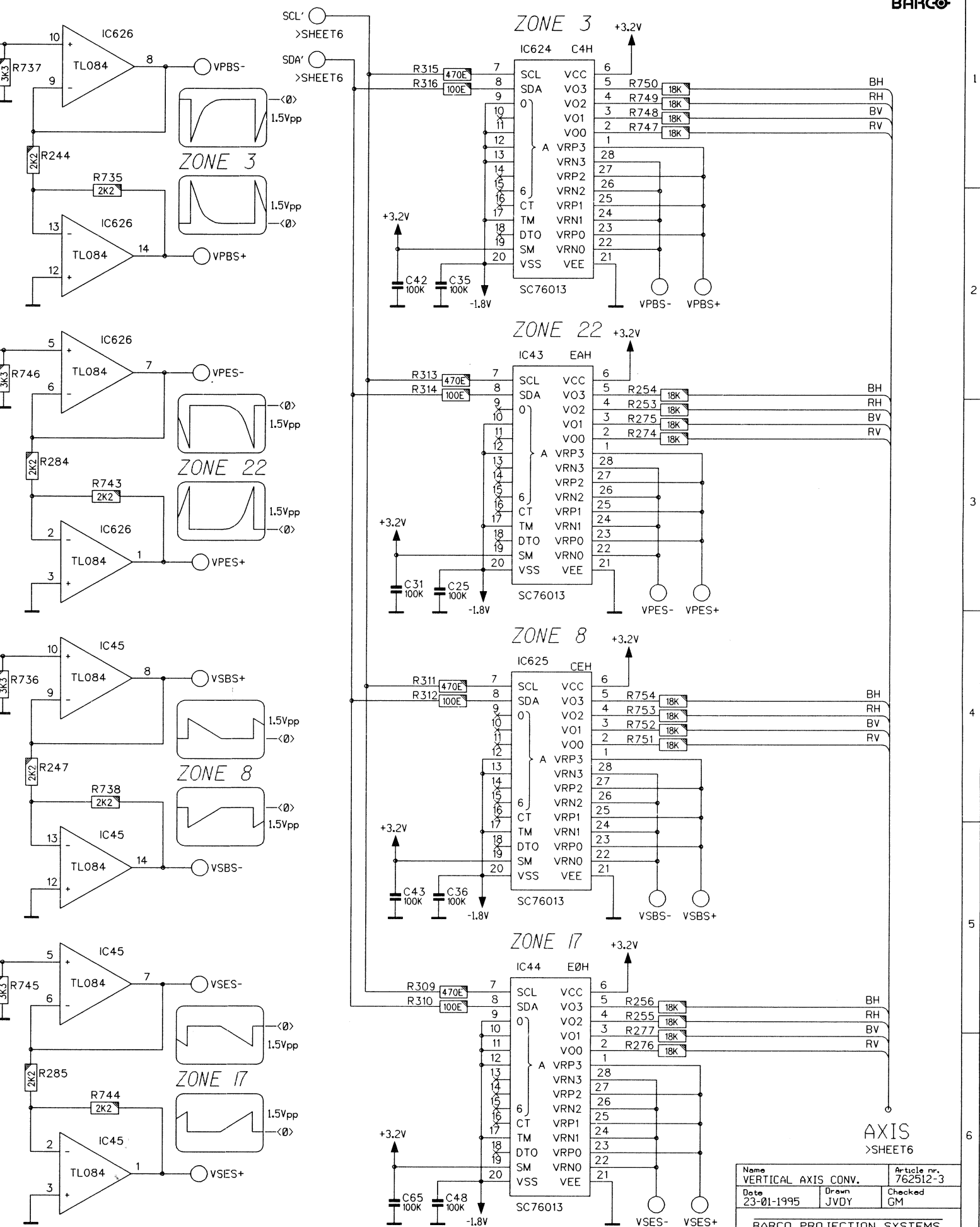


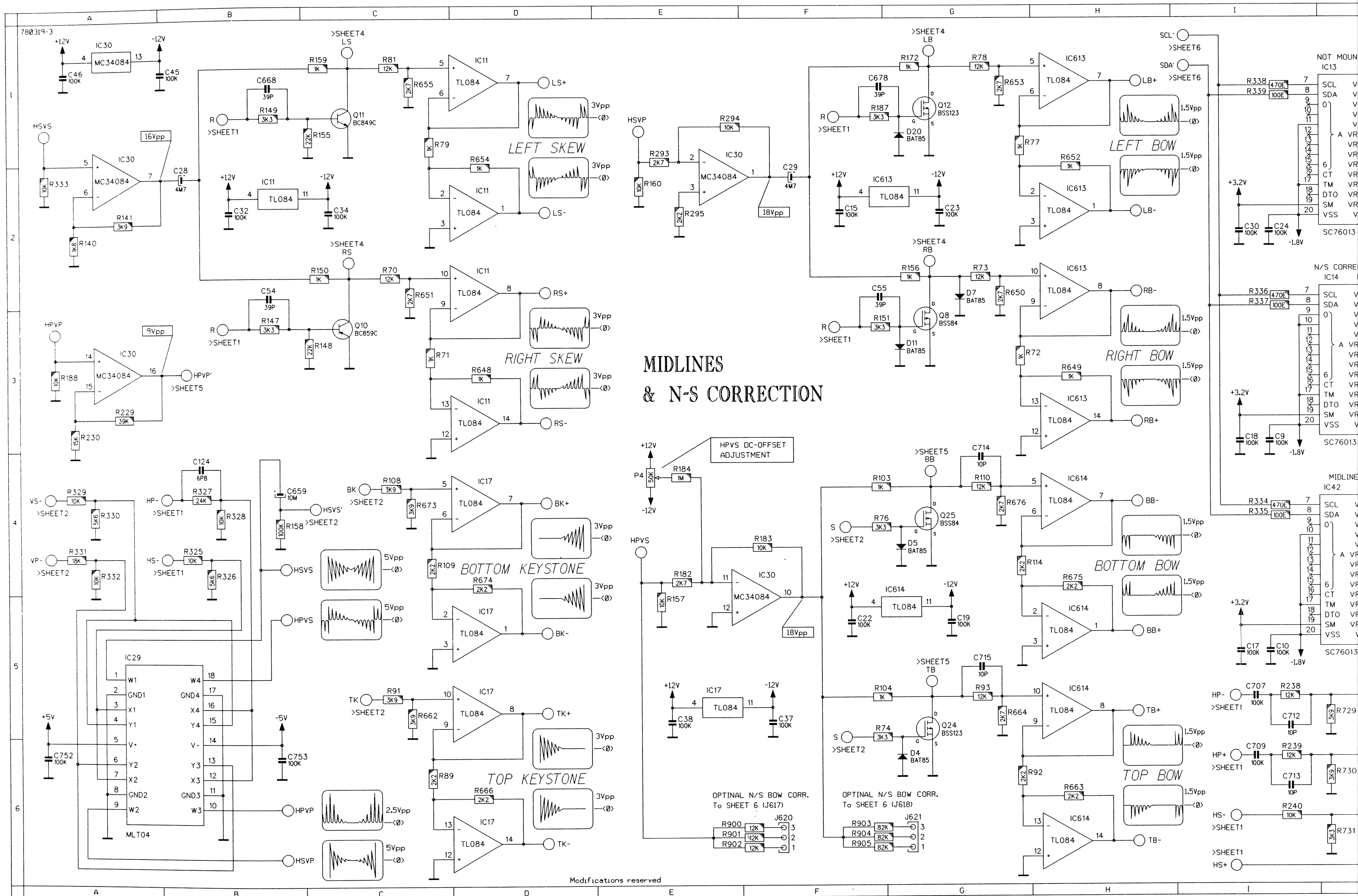


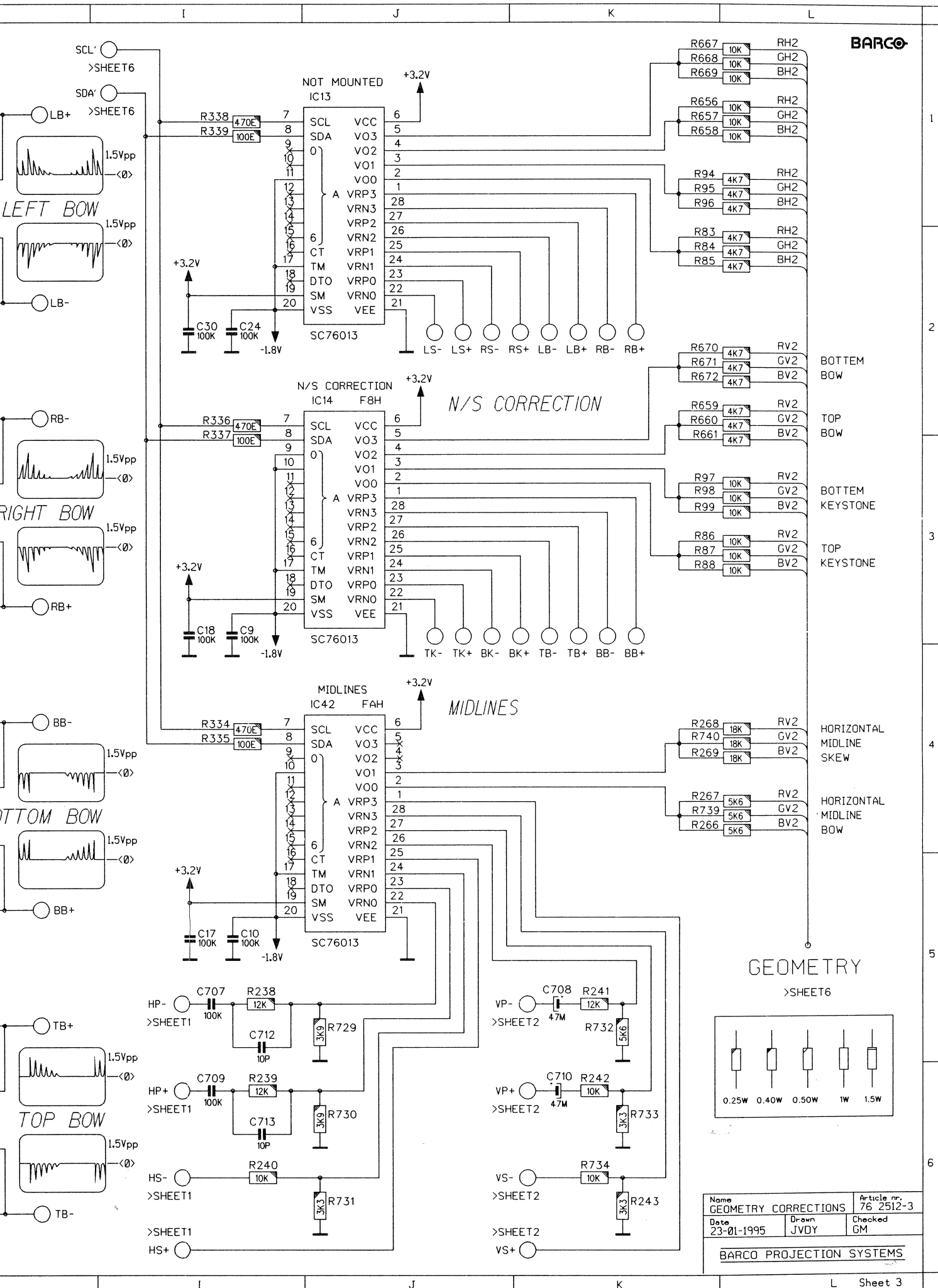
Name HORIZONTAL AXIS CONV.		Article nr. 76 2512-3
Date 23-01-1995	Drawn JVDY	Checked GM
BARCO PROJECTION SYSTEMS		

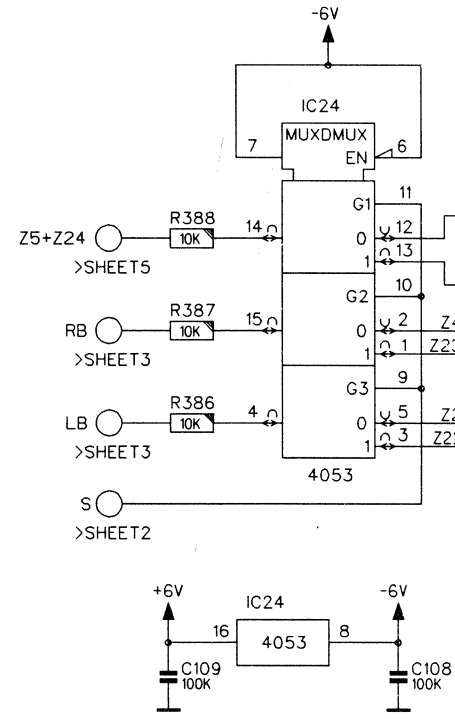
VERTICAL AXIS CONVERGENCE





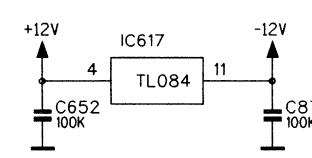
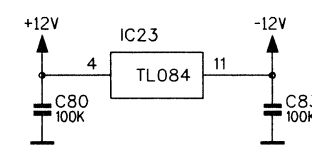




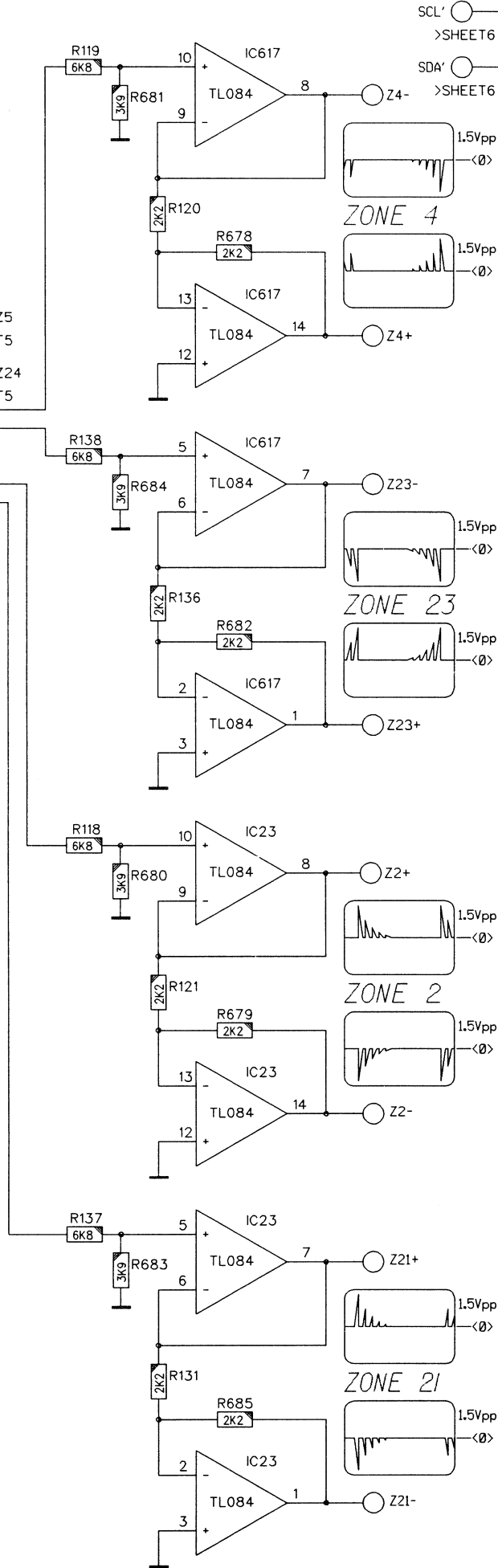
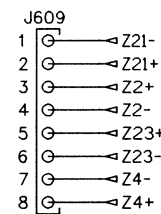


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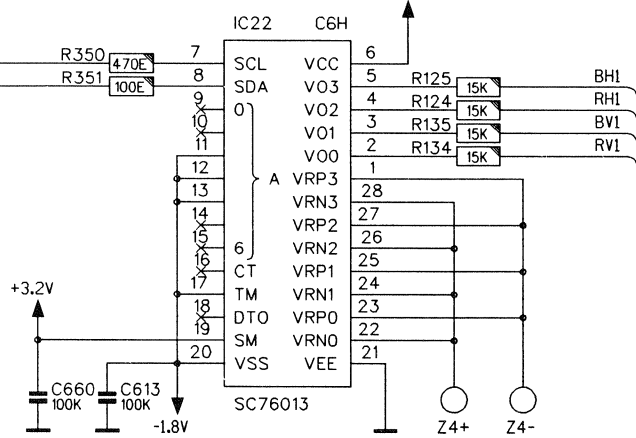
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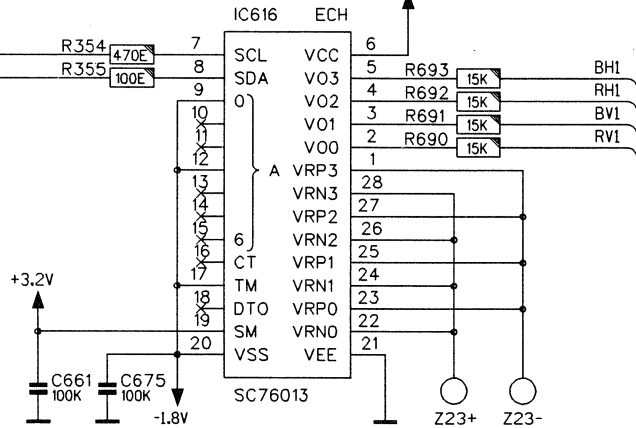
To GREEN CONV. (J803)



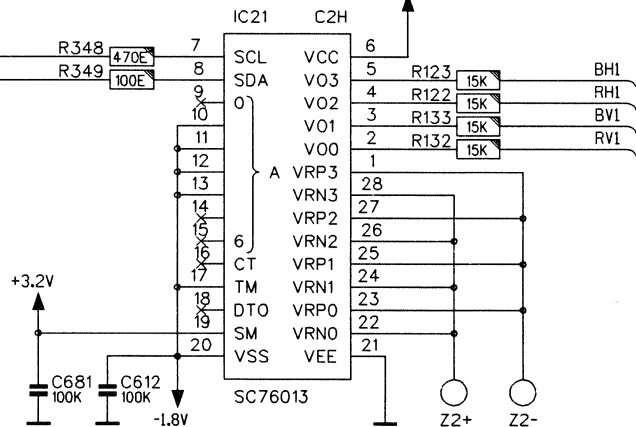
ZONE 4



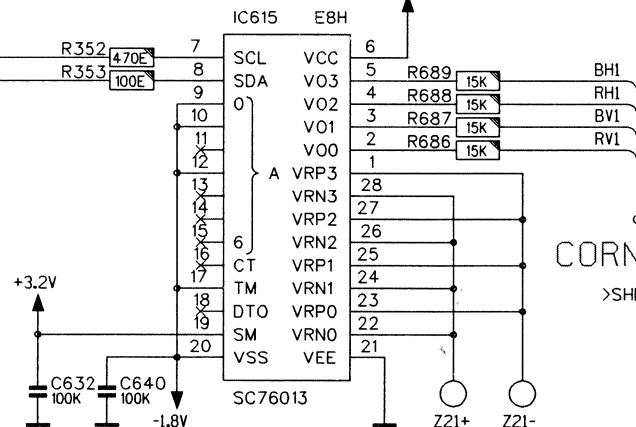
ZONE 23



ZONE 2



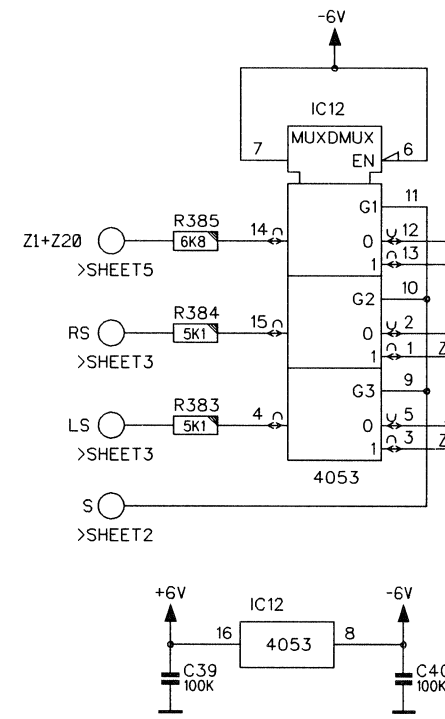
ZONE 21



CORNERS

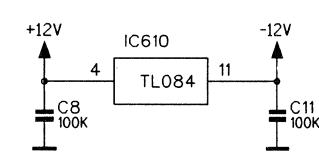
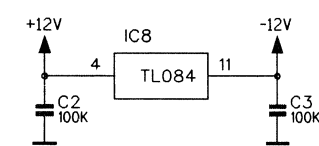
>SHEET6

CORNER CONVERGENCE

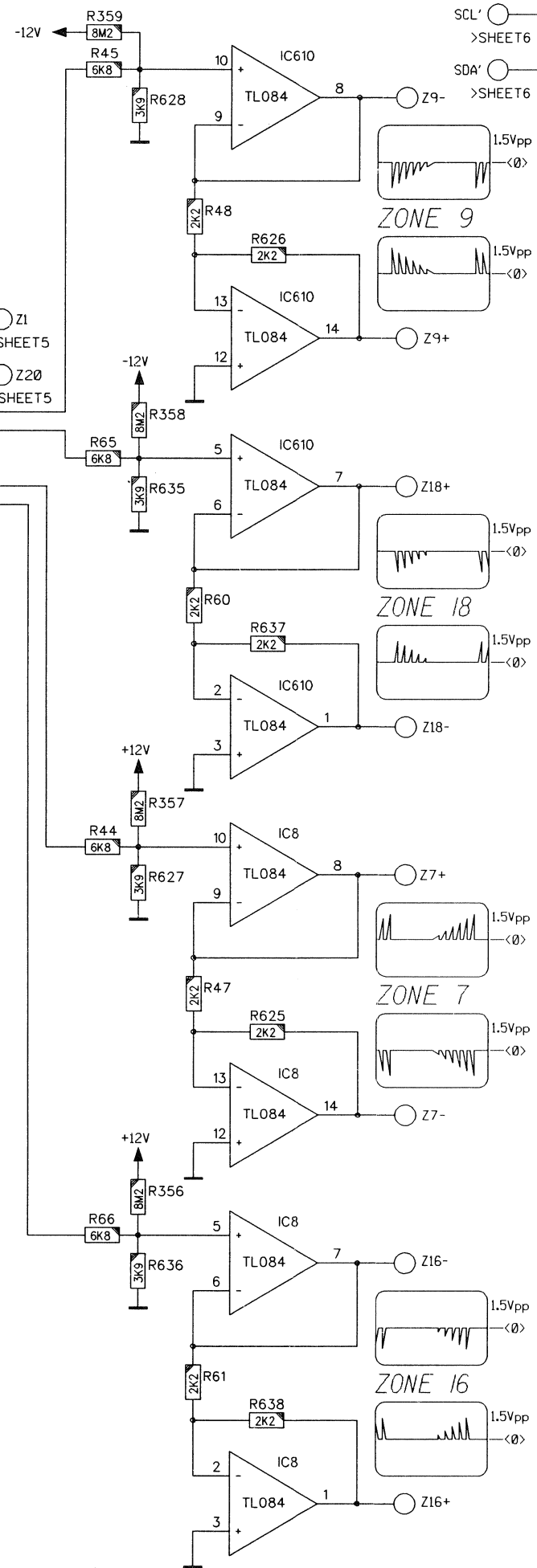
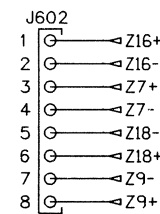


CORRECTION ZONE

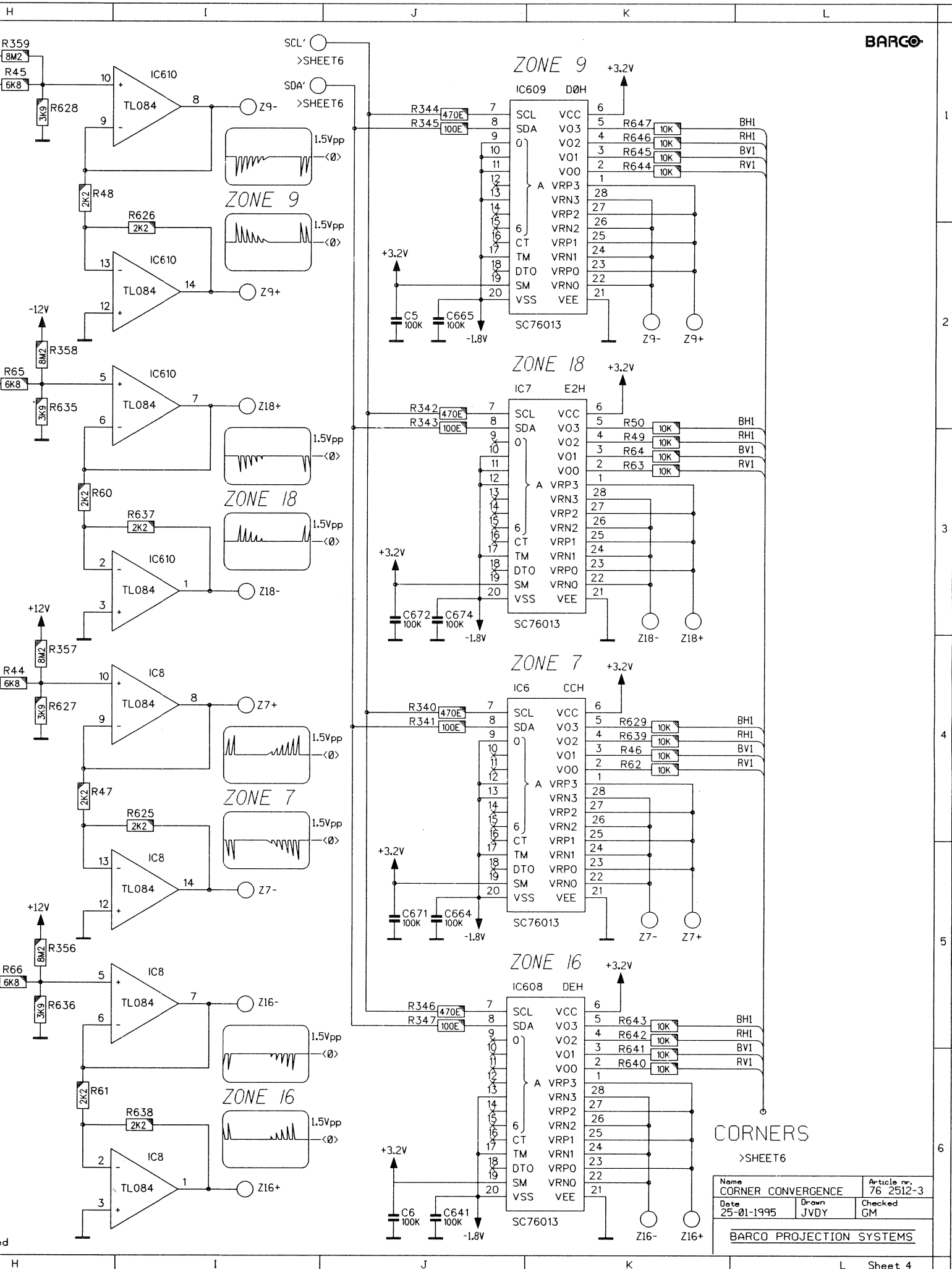
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To GREEN CONV. (J802)



Modifications reserved



BARCO

CORNERS

>SHEET6

Name	CORNER CONVERGENCE	Article nr.	76 2512-3
Date	25-01-1995	Drawn	JVDY
		Checked	GM
BARCO PROJECTION SYSTEMS			

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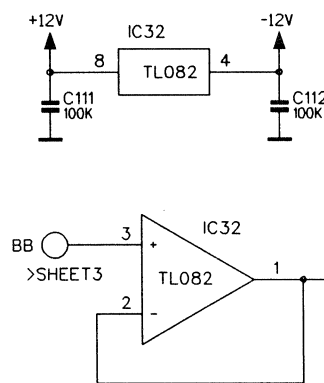
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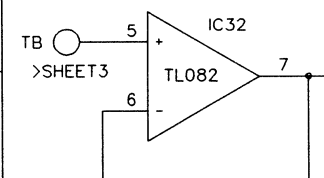
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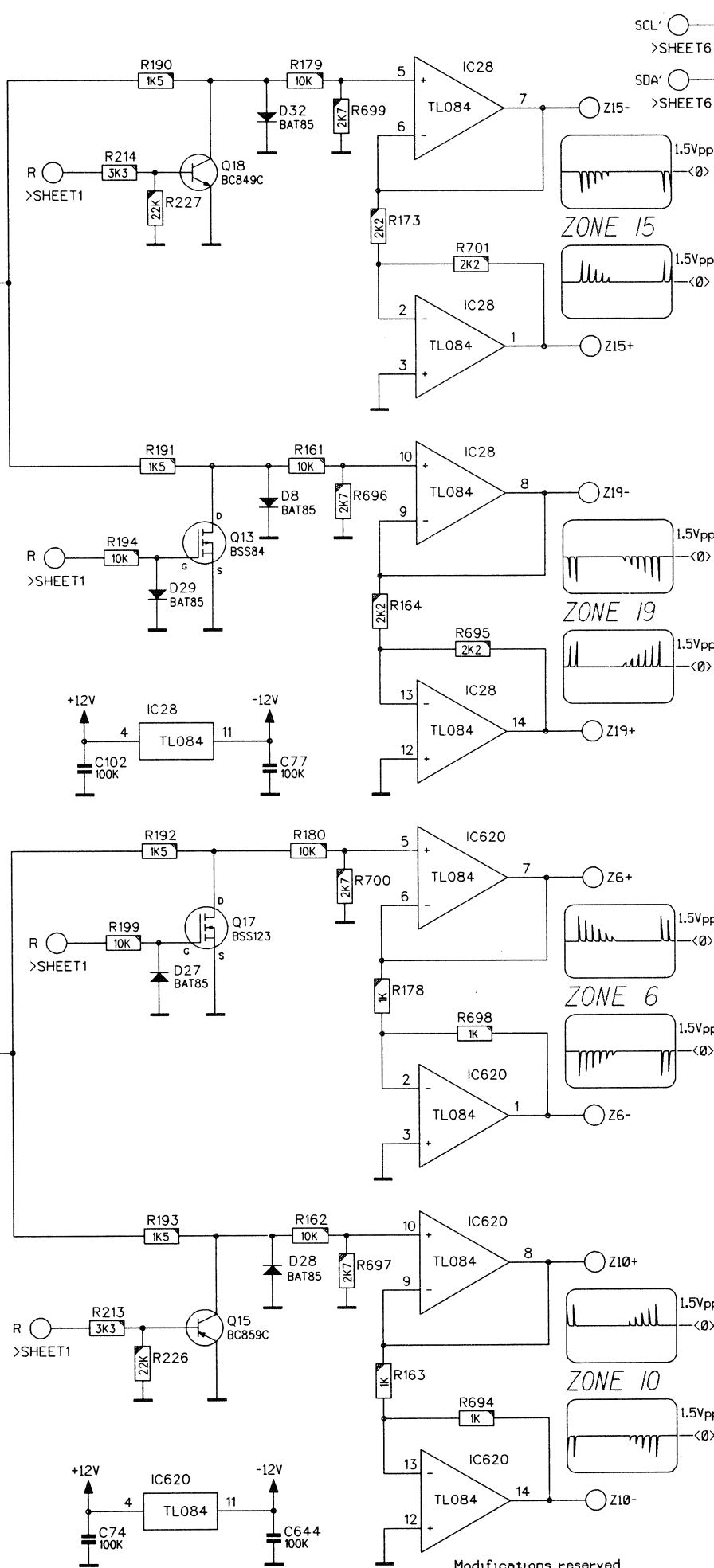
CORRECTION ZONE

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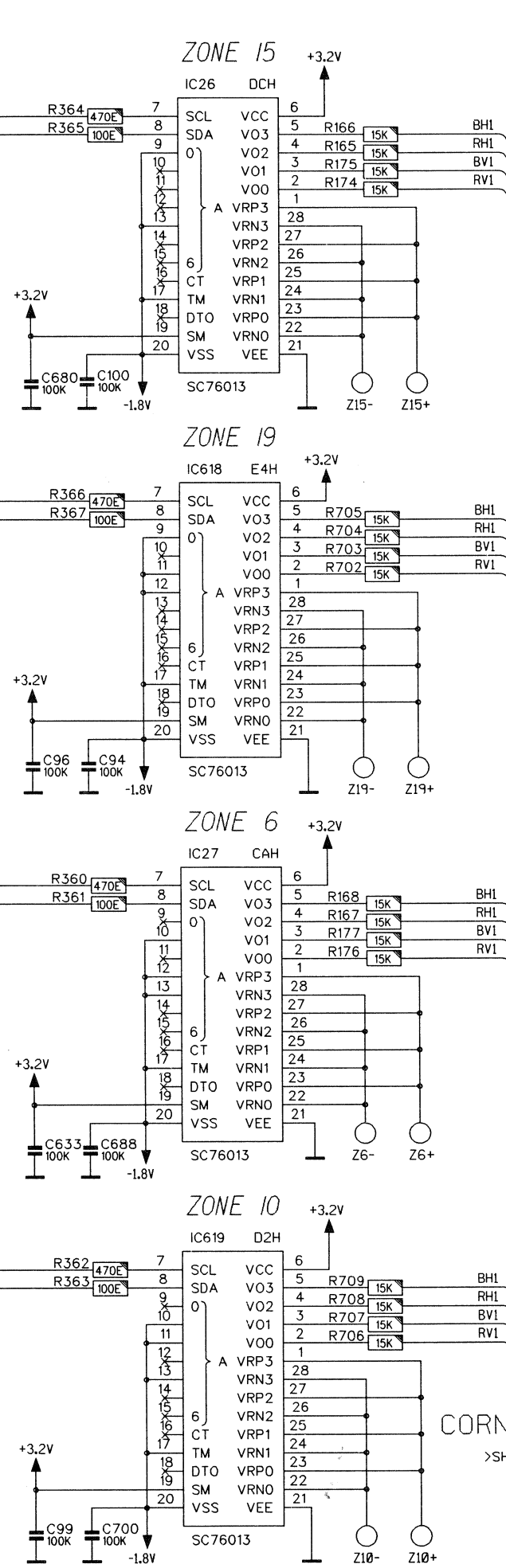


To GREEN CONV. (J804)

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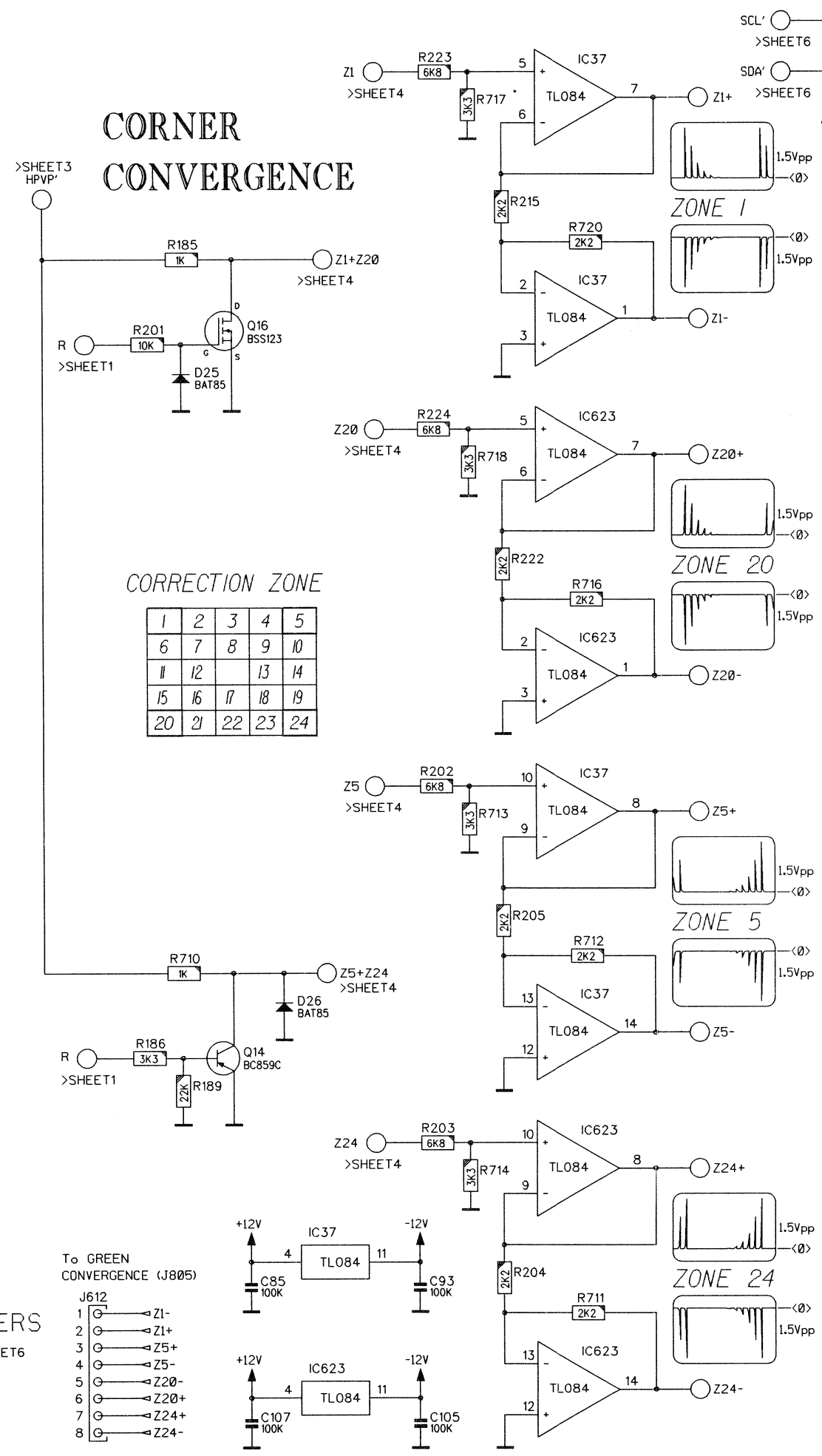
Modifications reserved



CORNER CONVERGENCE

CORRECTION ZONE

1	2	3	4	5
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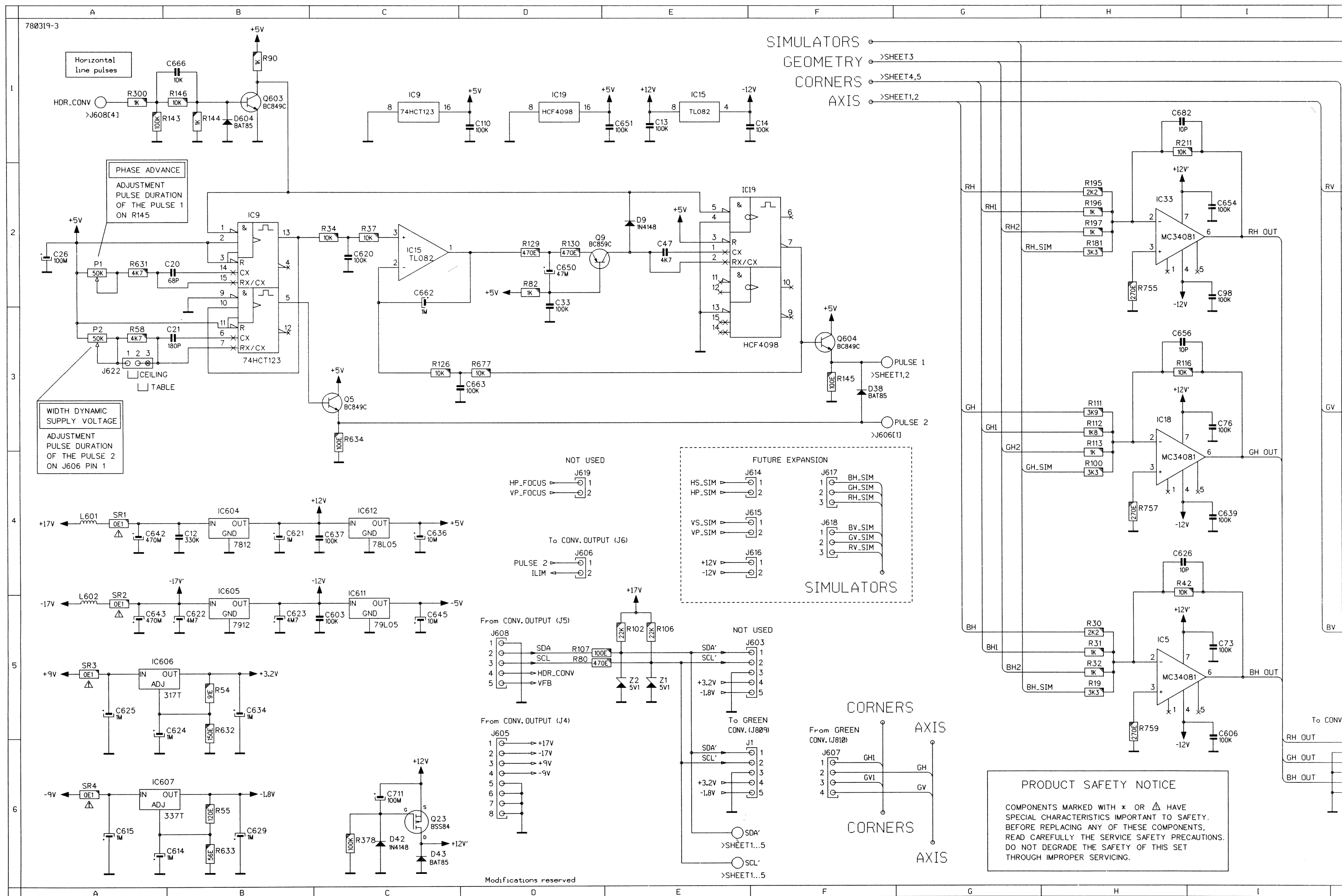


To GREEN CONVERGENCE (J805)

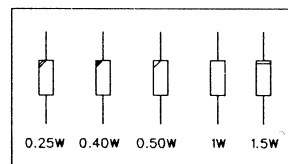
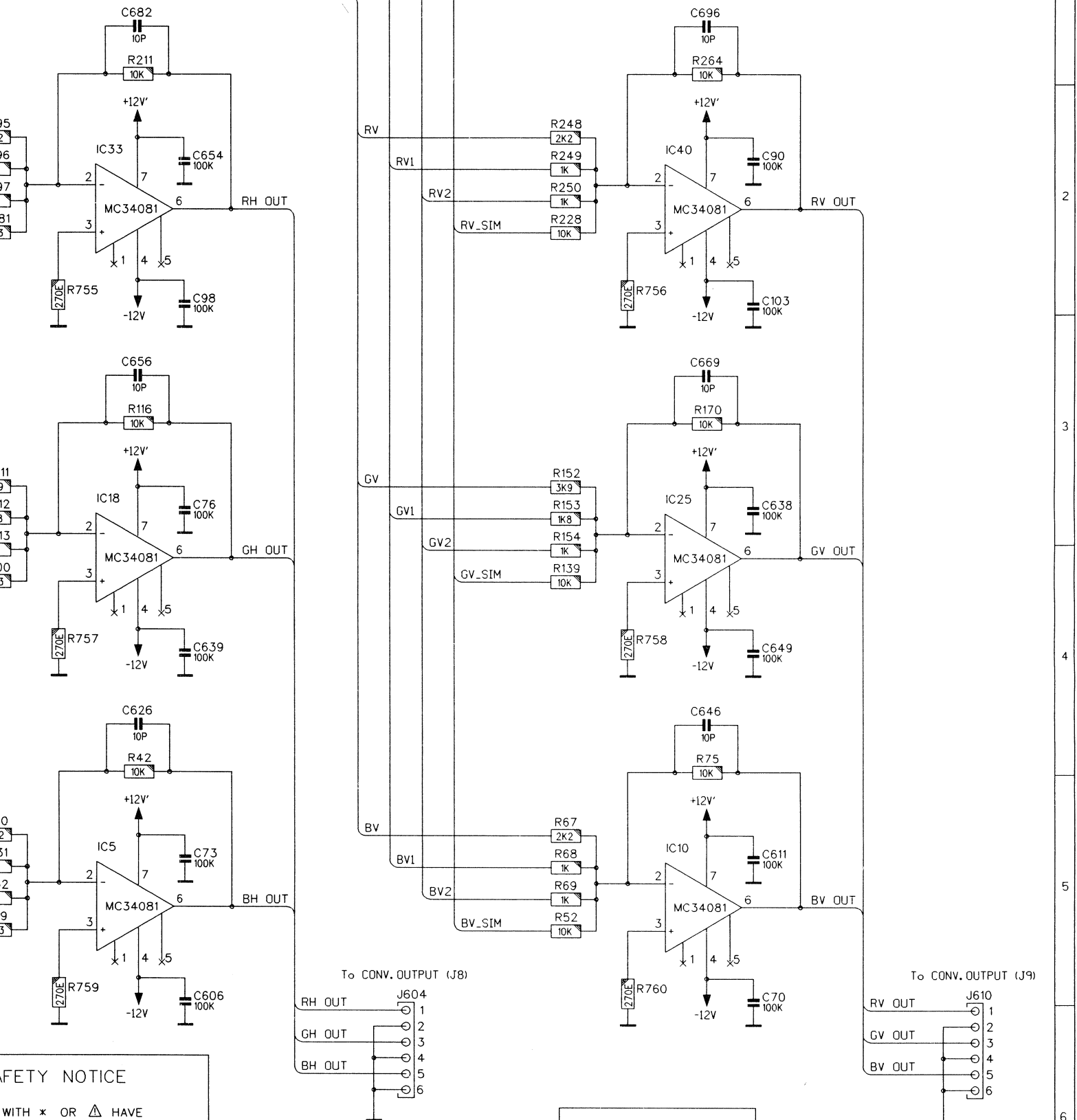
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CORNERS
>SHEET6





CONVERGENCE SUMMING AMPLIFIERS



Name SUMMING AMPLIFIERS		Article nr. 76 2512-3
Date 23-01-1995	Drawn JVDY	Checked GM

BARCO PROJECTION SYSTEMS

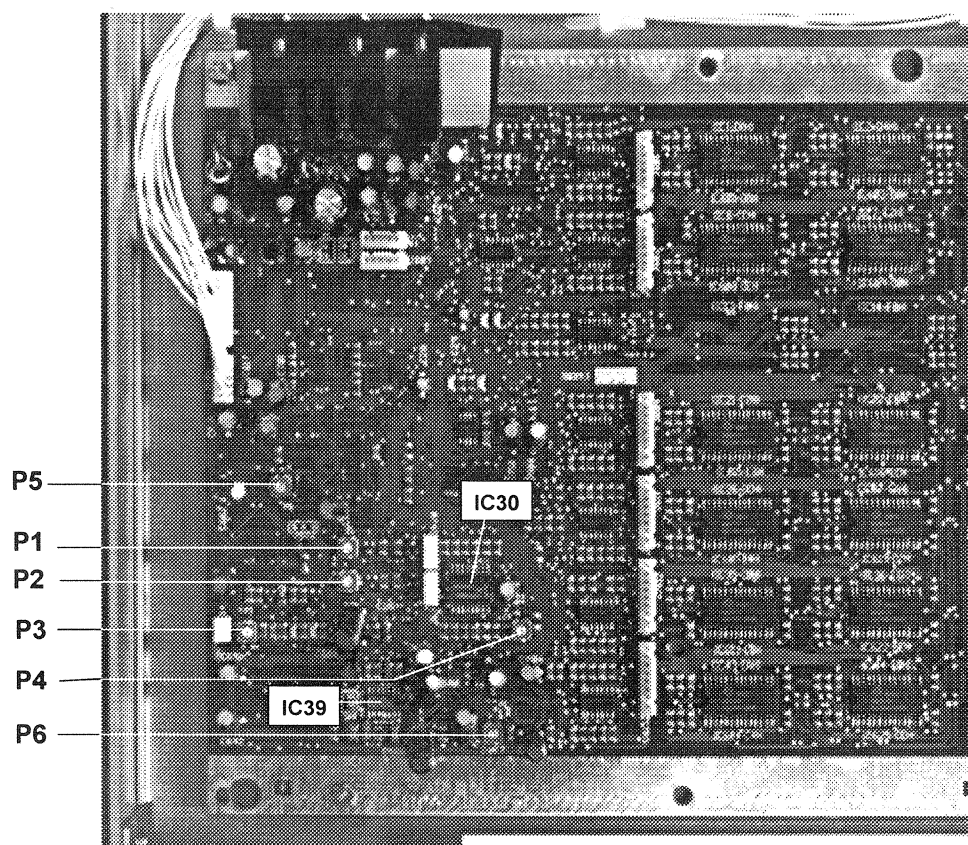
BARCO

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C2 G 5 sheet 4	C602 B 2 sheet 1	D30 B 6 sheet 2	IC39 G 3 sheet 2	P1 A 2 sheet 6	R79 C 1 sheet 3	R198 D 4 sheet 2	R322 A 6 sheet 2	R652 H 1 sheet 3	R904 F 6 sheet 3	
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C4 G 6 sheet 1	C604 G 1 sheet 1	D32 C 1 sheet 5	IC40 K 2 sheet 6	P3 A 6 sheet 2	R81 C 1 sheet 3	R200 D 4 sheet 2	R326 B 4 sheet 3	R654 D 1 sheet 3		
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C6 J 6 sheet 4	C606 B 5 sheet 6	D38 F 3 sheet 6	IC41 D 6 sheet 2	P5 C 6 sheet 1	R83 K 1 sheet 3	R202 H 4 sheet 5	R328 B 4 sheet 3	R656 K 1 sheet 3	SR2 A 4 sheet 6	
C7 C 1 sheet 1	C607 G 2 sheet 1	D39 B 3 sheet 1	IC41 G 3 sheet 2	P6 C 5 sheet 2	R84 K 2 sheet 3	R203 H 5 sheet 5	R329 A 4 sheet 3	R657 K 1 sheet 3	SR3 A 5 sheet 6	
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Adjustment procedure

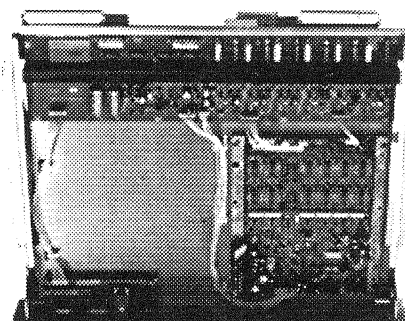
Adjustments

Location of adjustment controls



Preparation

- Remove the unit from the projector housing. Insert the extension board and plug the unit on it. (refer to the sheet 'Service Kit' for installation of it)



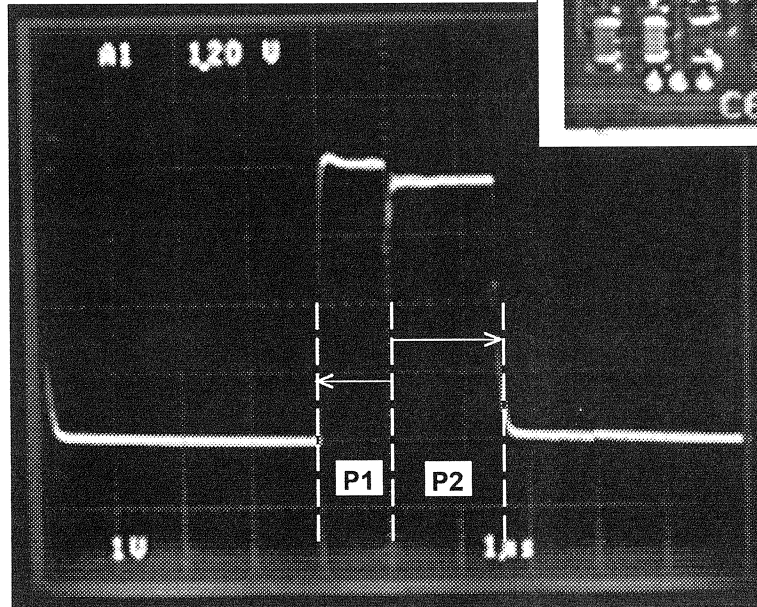
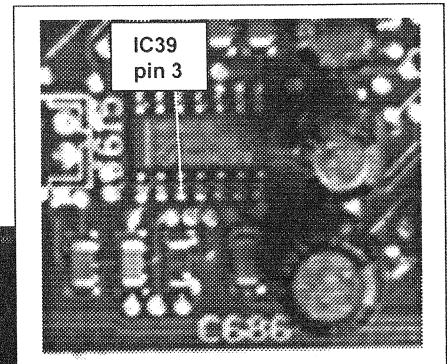
IMPORTANT

- For all the adjustments on the module, the projector has to operate on a signal with the highest **used** line frequency.

Adjustment

Adjustment of the pulse width PULSE 1 and PULSE 2

- Connect an oscilloscope to the pin 3 of the IC39.
- Adjust the potentiometer P1 for a pulse 1 duration of 1.0us.
- Adjust the potentiometer P2 for a pulse 2 duration of 1.5us.



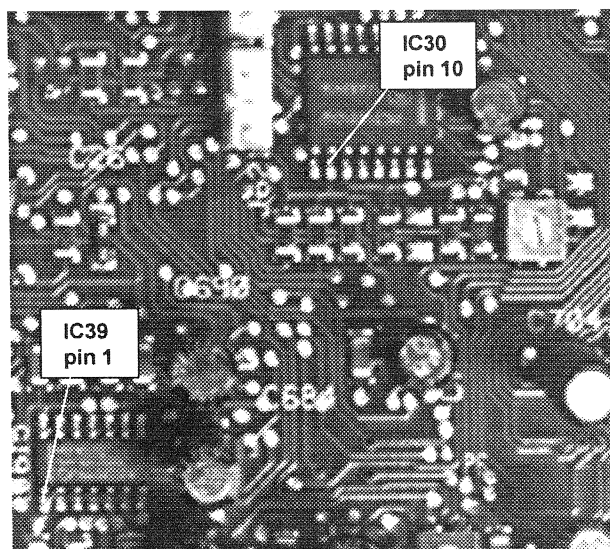
Adjustment of the potentiometers

P3: DC Offset switching level

P4: Hor-Par/Vert-Sawt DC Offset

P5: Clamping level Hor Parabola

measurement points for the adjustments



Convergence module (DRIVER)

GREEN Convergence module

R762512

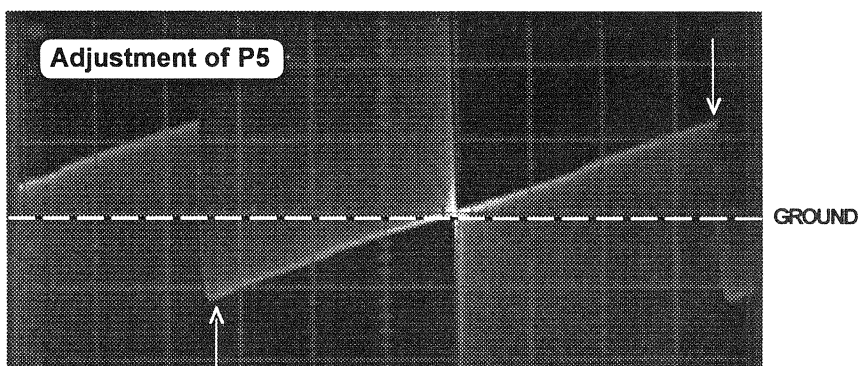
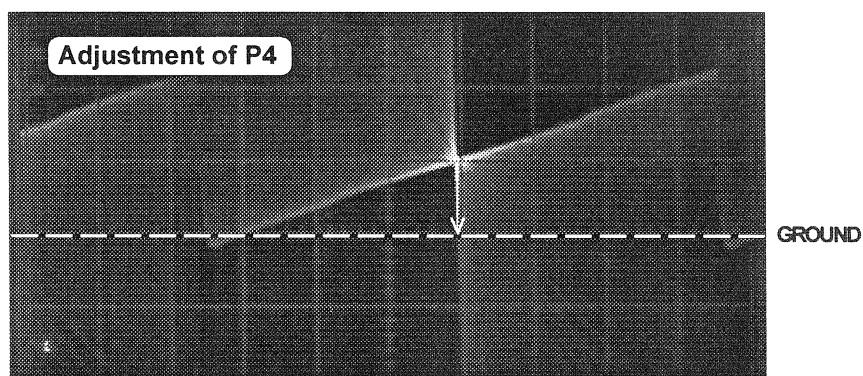
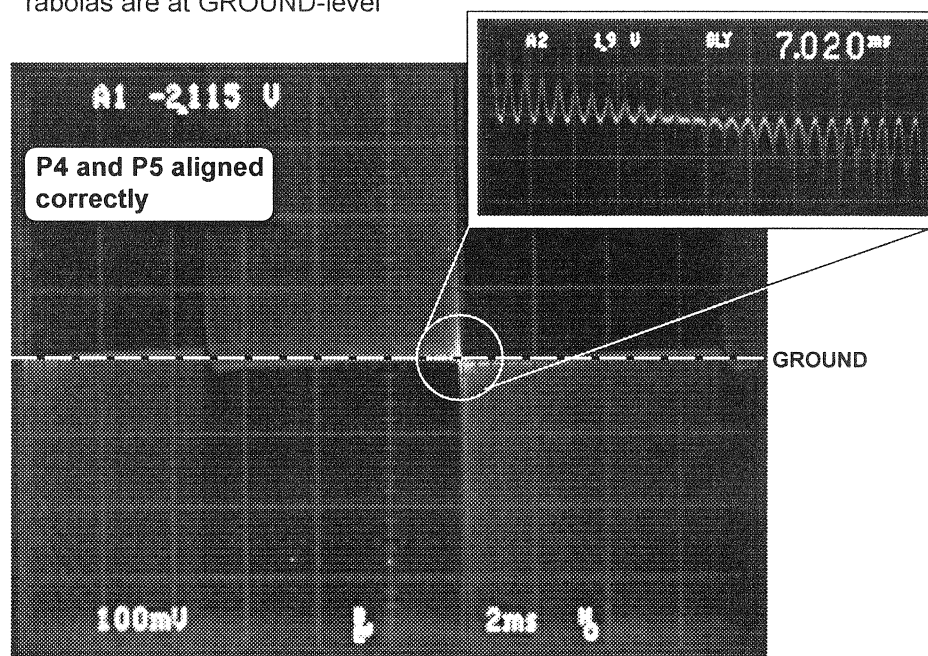
R7625128

Adjustment of the potentiometer

P4: ~~Hor-Par~~/Vert-Sawt DC Offset

P5: Clamping level Hor Parabola

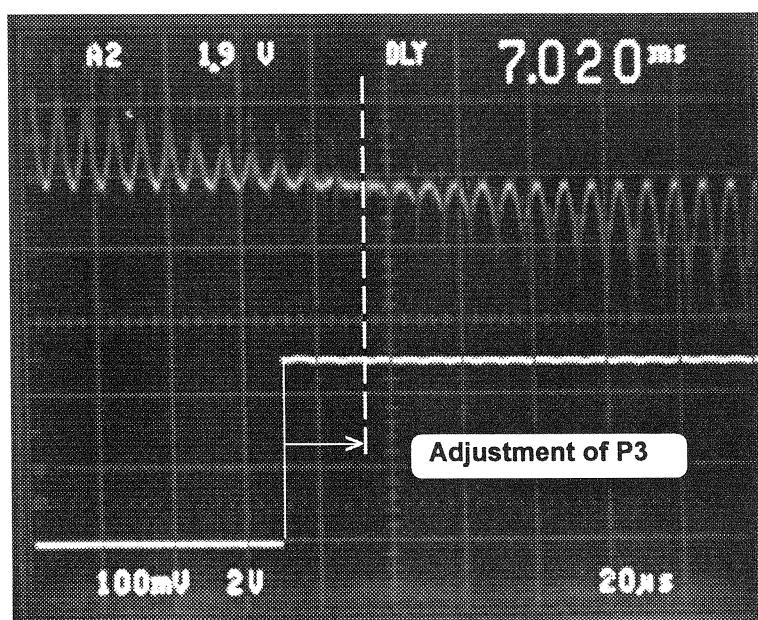
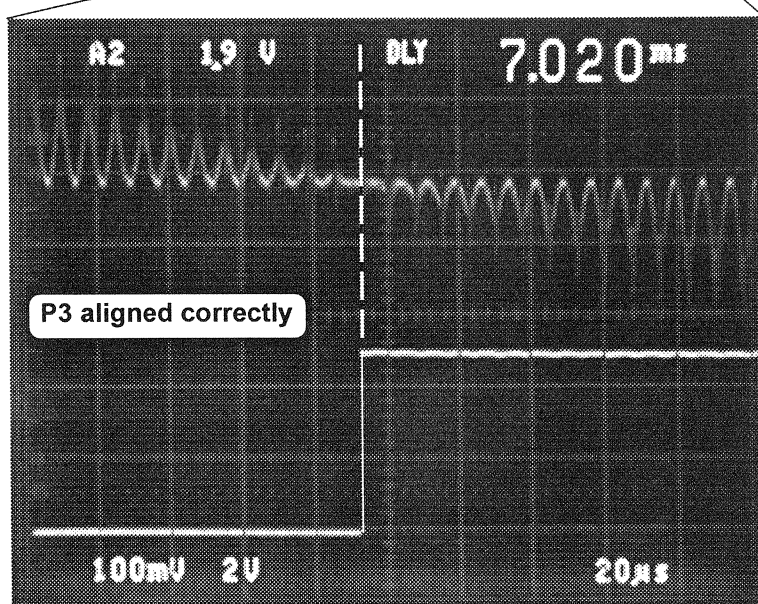
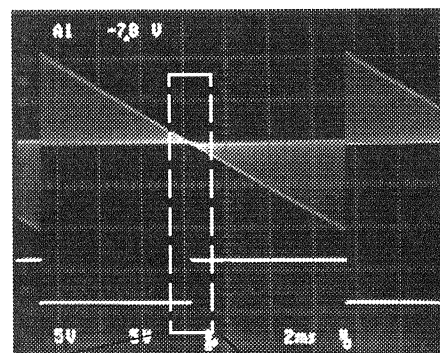
- Connect an oscilloscope to the pin 10 of the IC30.
- Adjust the potentiometer P4 until the DC Offset is at GROUND-level
- Adjust the potentiometer P5 until the clamping level of the Horizontal parabolas are at GROUND-level



Adjustment of the potentiometers P3: DC Offset switching level

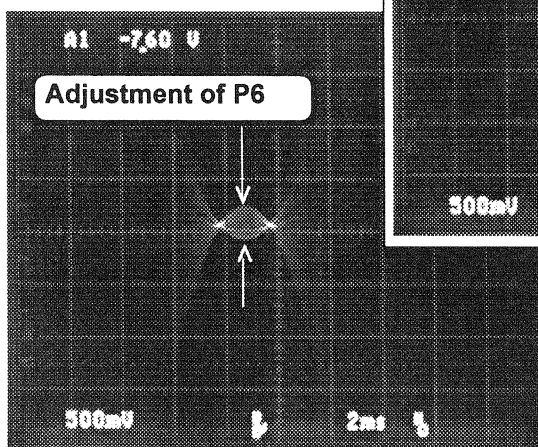
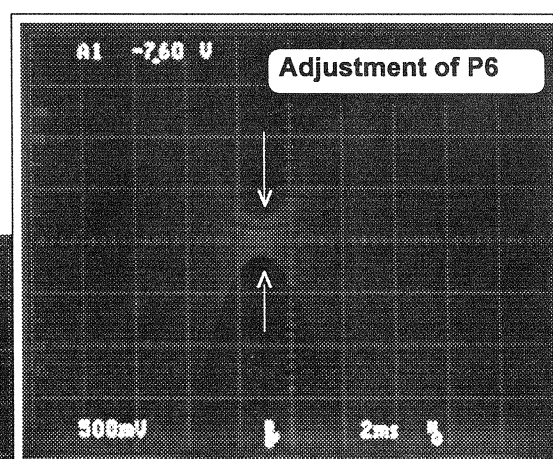
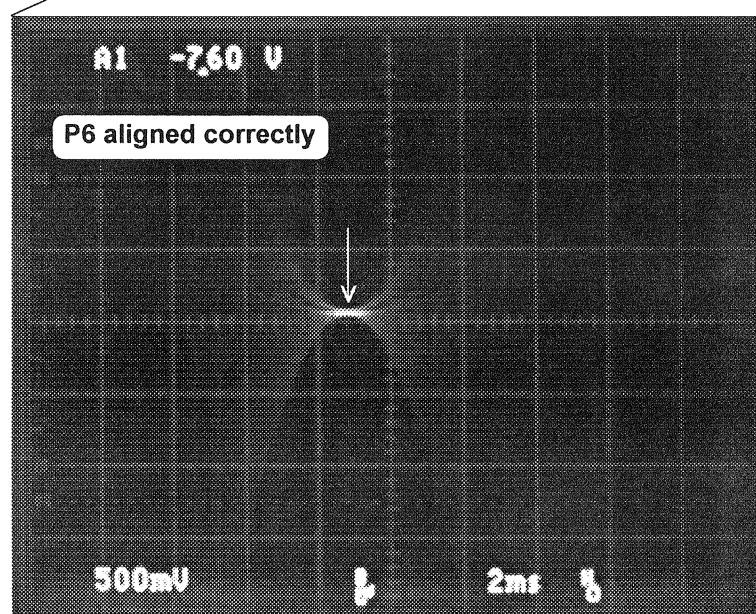
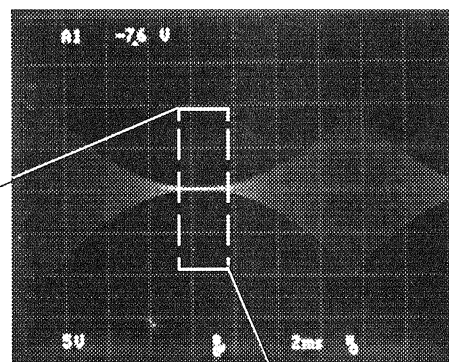
Attention: be sure that the input signal for adjustment operates on the highest used line frequency.

- Connect the second probe of the oscilloscope to the pin 1 of the IC39.
- Adjust the potentiometer P3 until the switching transient matches horizontal parabola inversion point.



Adjustment of the potentiometer P6: Clamping level Vert Parabola

- Connect the probe of the oscilloscope to the pin 1 of the IC30.
- Adjust the potentiometer P6 for a correct clamping level of the Vertical parabola (see fig below).



Technical description 'CONVERGENCE DRIVER' module R762518

Introduction.

The Surface Mounted Devices (SMD) technology applied in the driver module makes servicing of the module not easy and requires the correct tools. The description of the schematics will then also be limited to the essential functions.

Two trigger pulses are generated to trigger the sawtooth generator and the dynamic boosting up of the power supply of the end stages. The sawtooth waveforms are clamped to ground level during one part of the scanning (left/right or top/bottom) and adjusted in amplitude for a linear correction on the scan for red and blue colour (except when the "convergence on green " option is mounted).

Multipliers produce parabolic waveforms which undergo the same kind of flow for the non linear corrections. A combination of the clamped signals, and a modulation on either a sawtooth or parabola is needed for the corner convergence. All the waveforms for one colour are summed with an OPAMP and amplified by a DC amplifier in the OUTPUT module.

Trigger Pulse generation Pulse 1 and 2

The HDR_CONV is speeded up and inverted with Q603. The negative pulse at the collector triggers at its negative going transient the monoflops IC9 and IC19.

Pulse 1 : (trigger of the sawtooth generator).

The width of the positive output pulse at pin 13 of IC9 is adjusted with P1. The pulse train at the output pin 13 is integrated with R34/C620 and applied to one input (+) of the OPAMP IC15. It is obvious that the voltage across C620 is proportional with the width of the pulse and the line frequency. The output of this OPAMP determines the current of the current source Q9. This current adjusts the width of the pulse at the output pin 7 of IC19. The time constant of this one shot is designed to be a little less than the time period. That time constant needs to be tracked with the line frequency and this is realized as follows. The opposite polarity output pin 7 is integrated by R677 / C663 and applied to the inverting input of the same OPAMP. The pulse at pin 7 (*Pulse 1*) starts consequently just before the end of the scanning and is used to trigger the horizontal sawtooth generator.

Pulse 2 : (dynamic boosting up power supply).

The pulse output at pin 13 triggers on the positive going transient the second monoflop in IC9. The width of the output pulse at pin 5 is adjusted with P2. Through the buffer Q5 the pulse is available for boosting up the supply voltage of the power end stages. Note that this pulse 2 is also added via D38 to pulse 1.

Horizontal axis convergence :

Horizontal sawtooth generator. (Sheet 1)

C602 is charged up by the current source Q2. In order to stabilize the amplitude, irrelevant the line frequency, the charging current is tracked with the line frequency as follows. The sawtooth is buffered and an average value of the amplitude is obtained by integration with IC3 / C7 . The resulting output voltage adjusts the charging current of the current source Q2. The amplitude is set by the voltage at the other input of the OPAMP, thus by R2 / R602.

The sawtooth is inhibited by the clamper Q22 when the current consumption of the power end amplifiers is too big (see Power Output stages).

OPAMP IC3 (5-6-7) amplifies the sawtooth in order to supply IC4, IC16 and the multiplier IC20.

Preparation of the waveforms.

The voltage comparator IC16 (5-6-7) transforms the sawtooth into a squared Horizontal 'Switch Pulse' of $24 V_{pp}$ (+ / - 12V). This switch signal is used to clamp either the sawtooth or the parabola during the first or second half of the horizontal scanning. Note that the clipping level is variable with the voltage that drives the current source of the sawtooth generator. The multiplier IC20 (AD633) generates a horizontal parabola **HP+**.

The next OPAMP shifts the DC level by clamping the middle of the parabola to a voltage adjusted by P5 (approx. 0 volts) in order to compensate the tolerances of the multiplier.

The convergence at horizontal frequency with the ramp and parabola waveforms in the zones 11 - 14 are adjusted in IC1-IC2-IC601-IC602.

The waveforms are each time clamped with a clamping transistor served by the horizontal switch pulse. Two opposite phased waveform are each time applied to the potentiometers in the Bella's (digital potentiometer or D/A convertors).

Vertical axis convergence The vertical sawtooth generator is generated in a similar way as the horizontal sawtooth generator, discussed above. The much lower frequencies here allow the use of the MUXDMUX IC46 (4053) in stead of the clampers.

The "Vertical Switch Pulse" is passed through the RS flip-flop IC39 which is clocked with the pulse 1 in order to make the transition coincide with the trigger or the start of the horizontal sawtooth. This avoids a jitter for interlaced signals.

North-South / East-West and Midline corrections. For these corrections we need horizontal waveforms with an amplitude depending on the vertical position or vertical scanning. The horizontal waveforms must be modulated on a vertical sawtooth or parabola. This modulation is performed by IC29 (MLT04). The four different waveforms are all applied to the "X" and "Y" inputs and the modulated waveforms are the "W1 - W4" pins.

The corrections, called *GEOMETRY* corrections, are added to the *CORNER* and *AXIS* corrections in the "*Summing Amplifiers*".

East - West corrections :

Two kind of corrections (referred to as "skew" and "bow") are required to correct the projection angle and aberrations of the optical system.

The HSVS (**H**orizontal **S**awtooth modulated on a **V**ertical **S**awtooth) and HSVP are used for this purpose.

The HSVS is first amplified with an OPAMP in IC30 and then clamped with Q11 and Q10 which are 'served' with the "R" and "S" switching signals. The *LS+* and *LS-* (Left Skew) and *RS+* / *RS-* (Right Skew) are fed to two digital potentiometers in IC13 and the adjusted outputs are sent simultaneously to the three convergence coils.

HSVP is first inverted and amplified and then clamped during the first or second half of the scan. The *RB+/-* and *LB+/-* are applied to the digital potentiometers in the same IC13 and the outputs also feed the three convergence coils.

North - South Corrections .

Two type of waveforms are modulated on a vertical sawtooth VS, Horizontal Sawtooth (HS) and Horizontal Parabola (HP). The HSVS from IC29 (sheet 3) is capacitively coupled to the MUX DMUX IC46 (sheet 2) and in stead of clamping, the

signal it is switched with the " vertical switch pulse " for a split of top and bottom. The TK (Top Keystone) and BK (Bottom Keystone) signals are adjusted in IC14. Since there is a correction per colour the different outputs of the digital potentiometers are gathered per colour and will be added to the other corrections in the "summing amplifiers".

Midline Corrections.

For the vertical and horizontal midline skew and bow corrections, the non-modulated waveforms HP- / + , HS+ / - are adjusted in amplitude with IC42 and simultaneously applied to the vertical and horizontal convergence coils of the three crt's.

Corner convergence.

The four corners are further divided (split) into 4 zones. The generation of the convergence signals for the corners is similar for these four corners. The only difference is the clamping or switching period. A split top / bottom is realised with a MUXDMUX switcher and a left / right split with fast switching clamping transistors. We limit the explanation to one corner and one zone (**Zone 1**) .

Zone 1 is the cross section of the extreme left vertical axis and the extreme top horizontal axis. We need to start with a Horizontal Parabola (=extreme left vertical axis) modulated on Vertical Parabola (= extreme top horizontal axis). This signal is called *HPVP'* in sheet 5. The clamping transistor Q16 clamps this signal during the second half of the horizontal scan and then the signal is called *Z1+Z20* . This signal is now split into top / bottom (Z1 and Z20) by the MUXDMUX IC12 (see sheet 4). Z1 and Z20 are now prepared for the digital potentiometer IC35 by the buffer - OPAMP IC37 to get *Z1+* and *Z1-* (same signal with opposite polarity). These signals are then adjusted in IC35 and used for red and blue. The outputs are added in the summing amplifier to the rest of the corrections. (*Geometry* and *Axis*).

Summing amplifiers.

All the corrections for the horizontal convergence coils are added per colour and amplified with an MC34081. These OPAMP's are supplied with + / - 12V and since the non-inverting input is at ground level, the average output of these OPAMPs is around zero volts. This is required by the output power amplifiers for a balanced load of the (complementary) output stage.

Convergence module (DRIVER)

GREEN Convergence module

R762512
R7625128

Parts listing Convergence module (Driver) 76 2512

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
100	R133074	Q ACC ISO SIL600 W 30	0,06	C 56	P210122	C# X7R MU 100N K 50 1206	1
	R3481082	WU JUMP 0,51 22,5 ISO	1	C 57	P210122	C# X7R MU 100N K 50 1206	1
110	R3631059	SCR D933 M 3 X 8 XIC	3	C 58	P210122	C# X7R MU 100N K 50 1206	1
150	R3631059	SCR D933 M 3 X 8 XIC	2	C 59	P210122	C# X7R MU 100N K 50 1206	1
130	R802686	Q ACC SPG 1XM3	1	C 60	P210122	C# X7R MU 100N K 50 1206	1
120	R802687	Q ACC SPG 3XM3	1	C 61	P210122	C# X7R MU 100N K 50 1206	1
140	R805954	FRM PJ56 G808 HTSNK	1	C 62	P210122	C# X7R MU 100N K 50 1206	1
C 1	P210102	C# COG MU 470P J 50 1206	1	C 63	P210122	C# X7R MU 100N K 50 1206	1
C 2	P210122	C# X7R MU 100N K 50 1206	1	C 64	P210122	C# X7R MU 100N K 50 1206	1
C 3	P210122	C# X7R MU 100N K 50 1206	1	C 65	P210122	C# X7R MU 100N K 50 1206	1
C 4	P210137	C# COG MU 100P J 50 1206	1	C 66	P210122	C# X7R MU 100N K 50 1206	1
C 5	P210122	C# X7R MU 100N K 50 1206	1	C 67	P210122	C# X7R MU 100N K 50 1206	1
C 6	P210122	C# X7R MU 100N K 50 1206	1	C 68	P210122	C# X7R MU 100N K 50 1206	1
C 7	P210095	C# X7R MU 330N M 50 1812	1	C 69	P210122	C# X7R MU 100N K 50 1206	1
C 8	P210122	C# X7R MU 100N K 50 1206	1	C 70	P210122	C# X7R MU 100N K 50 1206	1
C 9	P210122	C# X7R MU 100N K 50 1206	1	C 71	R111549	C EL RA 3M3M 50E2 85	1
C 10	P210122	C# X7R MU 100N K 50 1206	1	C 72	P210122	C# X7R MU 100N K 50 1206	1
C 11	P210122	C# X7R MU 100N K 50 1206	1	C 73	P210122	C# X7R MU 100N K 50 1206	1
C 12	P210095	C# X7R MU 330N M 50 1812	1	C 74	P210122	C# X7R MU 100N K 50 1206	1
C 13	P210122	C# X7R MU 100N K 50 1206	1	C 75	P210122	C# X7R MU 100N K 50 1206	1
C 14	P210122	C# X7R MU 100N K 50 1206	1	C 76	P210122	C# X7R MU 100N K 50 1206	1
C 15	P210122	C# X7R MU 100N K 50 1206	1	C 77	P210122	C# X7R MU 100N K 50 1206	1
C 16	P210092	C# X7R MU 10N K 50 1206	1	C 78	P210122	C# X7R MU 100N K 50 1206	1
C 17	P210122	C# X7R MU 100N K 50 1206	1	C 79	P210122	C# X7R MU 100N K 50 1206	1
C 18	P210122	C# X7R MU 100N K 50 1206	1	C 80	P210122	C# X7R MU 100N K 50 1206	1
C 19	P210122	C# X7R MU 100N K 50 1206	1	C 81	P210122	C# X7R MU 100N K 50 1206	1
C 20	P210010	C# COG MU 68P J 50 1206	1	C 82	P210122	C# X7R MU 100N K 50 1206	1
C 21	P210081	C# COG MU 180P K 50 0805	1	C 83	P210122	C# X7R MU 100N K 50 1206	1
C 22	P210122	C# X7R MU 100N K 50 1206	1	C 85	P210122	C# X7R MU 100N K 50 1206	1
C 23	P210122	C# X7R MU 100N K 50 1206	1	C 86	P210092	C# X7R MU 10N K 50 1206	1
C 24	P210122	C# X7R MU 100N K 50 1206	1	C 87	P210122	C# X7R MU 100N K 50 1206	1
C 25	P210122	C# X7R MU 100N K 50 1206	1	C 88	P210122	C# X7R MU 100N K 50 1206	1
C 26	R111466	C EL RA 100M Z 16E2 85	1	C 90	P210122	C# X7R MU 100N K 50 1206	1
C 27	P210122	C# X7R MU 100N K 50 1206	1	C 91	P210013	C# COG MU 1N J 50 1206	1
C 28	R1115915	C EL5 RA 4M7M 35E2 85	1	C 92	P210064	C# COG MU 22P J 50 1206	1
C 29	R1115915	C EL5 RA 4M7M 35E2 85	1	C 93	P210122	C# X7R MU 100N K 50 1206	1
C 30	P210122	C# X7R MU 100N K 50 1206	1	C 94	P210122	C# X7R MU 100N K 50 1206	1
C 31	P210122	C# X7R MU 100N K 50 1206	1	C 95	P210122	C# X7R MU 100N K 50 1206	1
C 32	P210122	C# X7R MU 100N K 50 1206	1	C 96	P210122	C# X7R MU 100N K 50 1206	1
C 33	P210122	C# X7R MU 100N K 50 1206	1	C 97	P210169	C# X7R MU 220N K 50 1210	1
C 34	P210122	C# X7R MU 100N K 50 1206	1	C 98	P210122	C# X7R MU 100N K 50 1206	1
C 35	P210122	C# X7R MU 100N K 50 1206	1	C 99	P210122	C# X7R MU 100N K 50 1206	1
C 36	P210122	C# X7R MU 100N K 50 1206	1	C100	P210122	C# X7R MU 100N K 50 1206	1
C 37	P210122	C# X7R MU 100N K 50 1206	1	C101	P210122	C# X7R MU 100N K 50 1206	1
C 38	P210122	C# X7R MU 100N K 50 1206	1	C102	P210122	C# X7R MU 100N K 50 1206	1
C 39	P210122	C# X7R MU 100N K 50 1206	1	C103	P210122	C# X7R MU 100N K 50 1206	1
C 40	P210122	C# X7R MU 100N K 50 1206	1	C104	P210122	C# X7R MU 100N K 50 1206	1
C 41	P210097	C# X7R MU 33N K 50 1206	1	C105	P210122	C# X7R MU 100N K 50 1206	1
C 42	P210122	C# X7R MU 100N K 50 1206	1	C107	P210122	C# X7R MU 100N K 50 1206	1
C 43	P210122	C# X7R MU 100N K 50 1206	1	C108	P210122	C# X7R MU 100N K 50 1206	1
C 45	P210122	C# X7R MU 100N K 50 1206	1	C109	P210122	C# X7R MU 100N K 50 1206	1
C 46	P210122	C# X7R MU 100N K 50 1206	1	C110	P210122	C# X7R MU 100N K 50 1206	1
C 47	P210140	C# X7R MU 4N7K 50 1206	1	C111	P210122	C# X7R MU 100N K 50 1206	1
C 48	P210122	C# X7R MU 100N K 50 1206	1	C112	P210122	C# X7R MU 100N K 50 1206	1
C 49	P210122	C# X7R MU 100N K 50 1206	1	C113	P210100	C# COG MU 47P J 50 1206	1
C 50	P210122	C# X7R MU 100N K 50 1206	1	C117	P210137	C# COG MU 100P J 50 1206	1
C 51	P210122	C# X7R MU 100N K 50 1206	1	C118	P210137	C# COG MU 100P J 50 1206	1
C 52	P210122	C# X7R MU 100N K 50 1206	1	C123	P210122	C# X7R MU 100N K 50 1206	1
C 53	P210122	C# X7R MU 100N K 50 1206	1	C124	P210115	C# COG MU 6P8D 50 0805	1
C 54	P210165	C# COG MU 39P J 50 1206	1	C125	P210066	C# COG MU 270P J 50 1206	1
C 55	P210165	C# COG MU 39P J 50 1206	1	C601	R111531	C EL RA 10M M 35E2 85	1
				C602	P210150	C# X7R MU 3N3K 50 1206	1
				C603	P210122	C# X7R MU 100N K 50 1206	1
				C604	P210121	C# COG MU 330P J 50 1206	1
				C605	P210169	C# X7R MU 220N K 50 1210	1

Convergence module (DRIVER)

GREEN Convergence module

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C606	P210122	C# X7R MU 100N K 50 1206	1	C690	R111531	C EL RA 10M M 35E2 85	1
C607	P210121	C# COG MU 330P J 50 1206	1	C691	R111531	C EL RA 10M M 35E2 85	1
C608	P210122	C# X7R MU 100N K 50 1206	1	C692	R111531	C EL RA 10M M 35E2 85	1
C609	P210122	C# X7R MU 100N K 50 1206	1	C693	P210122	C# X7R MU 100N K 50 1206	1
C611	P210122	C# X7R MU 100N K 50 1206	1	C694	P210122	C# X7R MU 100N K 50 1206	1
C612	P210122	C# X7R MU 100N K 50 1206	1	C695	P210122	C# X7R MU 100N K 50 1206	1
C613	P210122	C# X7R MU 100N K 50 1206	1	C696	P210138	C# COG MU 10P J 50 1206	1
C614	R111546	C EL RA 1M M 50E2 85	1	C699	P210122	C# X7R MU 100N K 50 1206	1
C615	R111546	C EL RA 1M M 50E2 85	1	C700	P210122	C# X7R MU 100N K 50 1206	1
C616	R111548	C EL RA 2M2M 50E2 85	1	C701	R111486	C EL RA 47M M 40E2 85	1
C617	R111531	C EL RA 10M M 35E2 85	1	C702	P210121	C# COG MU 330P J 50 1206	1
C618	R111531	C EL RA 10M M 35E2 85	1	C703	R111531	C EL RA 10M M 35E2 85	1
C619	P210121	C# COG MU 330P J 50 1206	1	C704	R111531	C EL RA 10M M 35E2 85	1
C620	P210122	C# X7R MU 100N K 50 1206	1	C706	P210140	C# X7R MU 4N7K 50 1206	1
C621	R111546	C EL RA 1M M 50E2 85	1	C707	P210122	C# X7R MU 100N K 50 1206	1
C622	R1115915	C EL5 RA 4M7M 35E2 85	1	C708	R111500	C EL RA 47M M 10E2 85	1
C623	R1115915	C EL5 RA 4M7M 35E2 85	1	C709	P210122	C# X7R MU 100N K 50 1206	1
C624	R111546	C EL RA 1M M 50E2 85	1	C710	R111500	C EL RA 47M M 10E2 85	1
C625	R111546	C EL RA 1M M 50E2 85	1	C711	R111466	C EL RA 100M Z 16E2 85	1
C626	P210138	C# COG MU 10P J 50 1206	1	C712	P210138	C# COG MU 10P J 50 1206	1
C629	R111546	C EL RA 1M M 50E2 85	1	C713	P210138	C# COG MU 10P J 50 1206	1
C630	R111531	C EL RA 10M M 35E2 85	1	C714	P210138	C# COG MU 10P J 50 1206	1
C631	P210122	C# X7R MU 100N K 50 1206	1	C715	P210138	C# COG MU 10P J 50 1206	1
C632	P210122	C# X7R MU 100N K 50 1206	1	C752	P210122	C# X7R MU 100N K 50 1206	1
C633	P210122	C# X7R MU 100N K 50 1206	1	C753	P210122	C# X7R MU 100N K 50 1206	1
C634	R111546	C EL RA 1M M 50E2 85	1				
C636	R111531	C EL RA 10M M 35E2 85	1	D 1	P234099	D#4148 R DMMELF	1
C637	P210122	C# X7R MU 100N K 50 1206	1	D 2	P234055	D#BAT54 SCH SOT23	1
C638	P210122	C# X7R MU 100N K 50 1206	1	D 3	P234055	D#BAT54 SCH SOT23	1
C639	P210122	C# X7R MU 100N K 50 1206	1	D 4	P234055	D#BAT54 SCH SOT23	1
C640	P210122	C# X7R MU 100N K 50 1206	1	D 5	P234055	D#BAT54 SCH SOT23	1
C641	P210122	C# X7R MU 100N K 50 1206	1	D 6	P234055	D#BAT54 SCH SOT23	1
C642	R111479	C EL RA 470M Z 25E2 85	1	D 7	P234055	D#BAT54 SCH SOT23	1
C643	R111479	C EL RA 470M Z 25E2 85	1	D 8	P234055	D#BAT54 SCH SOT23	1
C644	P210122	C# X7R MU 100N K 50 1206	1	D 9	P234099	D#4148 R DMMELF	1
C645	R111531	C EL RA 10M M 35E2 85	1	D 11	P234055	D#BAT54 SCH SOT23	1
C646	P210138	C# COG MU 10P J 50 1206	1	D 20	P234055	D#BAT54 SCH SOT23	1
C649	P210122	C# X7R MU 100N K 50 1206	1	D 25	P234055	D#BAT54 SCH SOT23	1
C650	R111500	C EL RA 47M M 10E2 85	1	D 26	P234055	D#BAT54 SCH SOT23	1
C651	P210122	C# X7R MU 100N K 50 1206	1	D 27	P234055	D#BAT54 SCH SOT23	1
C652	P210122	C# X7R MU 100N K 50 1206	1	D 28	P234055	D#BAT54 SCH SOT23	1
C654	P210122	C# X7R MU 100N K 50 1206	1	D 29	P234055	D#BAT54 SCH SOT23	1
C655	P210122	C# X7R MU 100N K 50 1206	1	D 30	P234055	D#BAT54 SCH SOT23	1
C656	P210138	C# COG MU 10P J 50 1206	1	D 31	P234055	D#BAT54 SCH SOT23	1
C659	R111531	C EL RA 10M M 35E2 85	1	D 32	P234055	D#BAT54 SCH SOT23	1
C660	P210122	C# X7R MU 100N K 50 1206	1	D 33	P234099	D#4148 R DMMELF	1
C661	P210122	C# X7R MU 100N K 50 1206	1	D 38	P234055	D#BAT54 SCH SOT23	1
C662	R111546	C EL RA 1M M 50E2 85	1	D 39	P234055	D#BAT54 SCH SOT23	1
C663	P210122	C# X7R MU 100N K 50 1206	1	D 40	P234099	D#4148 R DMMELF	1
C664	P210122	C# X7R MU 100N K 50 1206	1	D 41	P234055	D#BAT54 SCH SOT23	1
C665	P210122	C# X7R MU 100N K 50 1206	1	D 42	P234099	D#4148 R DMMELF	1
C666	P210092	C# X7R MU 10N K 50 1206	1	D 43	P234055	D#BAT54 SCH SOT23	1
C668	P210165	C# COG MU 39P J 50 1206	1	D601	P234055	D#BAT54 SCH SOT23	1
C669	P210138	C# COG MU 10P J 50 1206	1	D602	P234055	D#BAT54 SCH SOT23	1
C671	P210122	C# X7R MU 100N K 50 1206	1	D603	P234055	D#BAT54 SCH SOT23	1
C672	P210122	C# X7R MU 100N K 50 1206	1	D604	P234055	D#BAT54 SCH SOT23	1
C674	P210122	C# X7R MU 100N K 50 1206	1				
C675	P210122	C# X7R MU 100N K 50 1206	1	I 1	P230653	U#76013 SC SOL28 P	1
C677	R111466	C EL RA 100M Z 16E2 85	1	I 2	P230653	U#76013 SC SOL28 P	1
C678	P210165	C# COG MU 39P J 50 1206	1	I 3	P230705	U#34084 MC SOL16 P	1
C679	P210153	C# Z5U MU 1M M 63 1812	1	I 4	P230203	U#084 TL SO14 P	1
C680	P210122	C# X7R MU 100N K 50 1206	1	I 5	P230453	U#34081 MC SO8 P	1
C681	P210122	C# X7R MU 100N K 50 1206	1	I 6	P230653	U#76013 SC SOL28 P	1
C682	P210138	C# COG MU 10P J 50 1206	1	I 7	P230653	U#76013 SC SOL28 P	1
C684	R111531	C EL RA 10M M 35E2 85	1	I 8	P230203	U#084 TL SO14 P	1
C686	R111466	C EL RA 100M Z 16E2 85	1	I 9	P230073	U#74HCT123 SO16 I	1
C687	P210122	C# X7R MU 100N K 50 1206	1	I 10	P230453	U#34081 MC SO8 P	1
C688	P210122	C# X7R MU 100N K 50 1206	1	I 11	P230203	U#084 TL SO14 P	1

Convergence module (DRIVER)

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I 12	P230030	U#4053	SO16 I	1	J609	R313928	J CT H MBT P 8 M2SN	1
I 14	P230653	U#76013	SC SOL28 P	1	J610	R313926	J CT H MBT P 6 M2SN	1
I 15	P230293	U#082	TL SO8 P	1	J611	R313928	J CT H MBT P 8 M2SN	1
I 16	P230028	U#393	LM SO8 P	1	J612	R313928	J CT H MBT P 8 M2SN	1
I 17	P230203	U#084	TL SO14 P	1	J613	R313928	J CT H MBT P 8 M2SN	1
I 18	P230453	U#34081	MC SO8 P	1	J618	R313923	J CT H MBT P 3 M2SN	1
I 19	P230451	U#4098	HCF SO16 I	1	J619	R313922	J CT H MBT P 2 M2SN	1
I 20	P230776	U#633	AD SO8 P	1	J620	R313923	J CT H MBT P 3 M2SN	1
I 21	P230653	U#76013	SC SOL28 P	1	J621	R313923	J CT H MBT P 3 M2SN	1
I 22	P230653	U#76013	SC SOL28 P	1				
I 23	P230203	U#084	TL SO14 P	1	L601	R774154	CH HOR PJ45 DHR	1
I 24	P230030	U#4053	SO16 I	1	L602	R774154	CH HOR PJ45 DHR	1
I 25	P230453	U#34081	MC SO8 P	1				
I 26	P230653	U#76013	SC SOL28 P	1	P 1	P201393	R#TCE H 50K M 0W25 S4 TS	1
I 27	P230653	U#76013	SC SOL28 P	1	P 2	P201393	R#TCE H 50K M 0W25 S4 TS	1
I 28	P230203	U#084	TL SO14 P	1	P 3	P201393	R#TCE H 50K M 0W25 S4 TS	1
I 29	P230912	U#04	MLT SOL18 I	1	P 4	P201393	R#TCE H 50K M 0W25 S4 TS	1
I 30	P230705	U#34084	MC SOL16 P	1	P 5	P201393	R#TCE H 50K M 0W25 S4 TS	1
I 32	P230293	U#082	TL SO8 P	1	P 6	P201393	R#TCE H 50K M 0W25 S4 TS	1
I 33	P230453	U#34081	MC SO8 P	1				
I 35	P230653	U#76013	SC SOL28 P	1	PC	R780319	PCM#PJ53 D 700 CNV DVR	1
I 36	P230653	U#76013	SC SOL28 P	1				
I 37	P230203	U#084	TL SO14 P	1	Q 1	P2320660	Q#BSR14 N SS SOT23	1
I 38	P230776	U#633	AD SO8 P	1	Q 2	P232101	Q#BC859C P SS SOT23	1
I 39	P230034	U#4013	SO14 I	1	Q 3	P232079	Q#BSS84 F SS SOT23	1
I 40	P230453	U#34081	MC SO8 P	1	Q 4	P232079	Q#BSS84 F SS SOT23	1
I 41	P230203	U#084	TL SO14 P	1	Q 5	P232004	Q#BC849C N SS SOT23	1
I 42	P230653	U#76013	SC SOL28 P	1	Q 6	P232066	Q#BSR14 N SS SOT23	1
I 43	P230653	U#76013	SC SOL28 P	1	Q 7	P232017	Q#BSR16 P SS SOT23	1
I 44	P230653	U#76013	SC SOL28 P	1	Q 8	P232079	Q#BSS84 F SS SOT23	1
I 45	P230203	U#084	TL SO14 P	1	Q 9	P232101	Q#BC859C P SS SOT23	1
I 46	P230030	U#4053	SO16 I	1	Q 10	P232101	Q#BC859C P SS SOT23	1
I601	P230653	U#76013	SC SOL28 P	1	Q 11	P232004	Q#BC849C N SS SOT23	1
I602	P230653	U#76013	SC SOL28 P	1	Q 12	P232046	Q#BSS123 F SS SOT23	1
I603	P230203	U#084	TL SO14 P	1	Q 13	P232079	Q#BSS84 F SS SOT23	1
I604	R134002	U 7812	TO220 P	1	Q 14	P232101	Q#BC859C P SS SOT23	1
I605	R134016	U 7912	TO220 P	1	Q 15	P232101	Q#BC859C P SS SOT23	1
I606	R134026	U 317T	TO220 P	1	Q 16	P232046	Q#BSS123 F SS SOT23	1
I607	R134027	U 337T	TO220 P	1	Q 17	P232046	Q#BSS123 F SS SOT23	1
I608	P230653	U#76013	SC SOL28 P	1	Q 18	P232004	Q#BC849C N SS SOT23	1
I609	P230653	U#76013	SC SOL28 P	1	Q 19	P232101	Q#BC859C P SS SOT23	1
I610	P230203	U#084	TL SO14 P	1	Q 20	P232004	Q#BC849C N SS SOT23	1
I611	R134035	U 79L05	TO92 P	1	Q 21	P232101	Q#BC859C P SS SOT23	1
I612	R134032	U 78L05	TO92 P	1	Q 22	P232101	Q#BC859C P SS SOT23	1
I613	P230203	U#084	TL SO14 P	1	Q 23	P232079	Q#BSS84 F SS SOT23	1
I614	P230203	U#084	TL SO14 P	1	Q 24	P232046	Q#BSS123 F SS SOT23	1
I615	P230653	U#76013	SC SOL28 P	1	Q 25	P232079	Q#BSS84 F SS SOT23	1
I616	P230653	U#76013	SC SOL28 P	1	Q 26	P232101	Q#BC859C P SS SOT23	1
I617	P230203	U#084	TL SO14 P	1	Q 27	P232101	Q#BC859C P SS SOT23	1
I618	P230653	U#76013	SC SOL28 P	1	Q601	P232046	Q#BSS123 F SS SOT23	1
I619	P230653	U#76013	SC SOL28 P	1	Q602	P232004	Q#BC849C N SS SOT23	1
I620	P230203	U#084	TL SO14 P	1	Q603	P232004	Q#BC849C N SS SOT23	1
I621	P230653	U#76013	SC SOL28 P	1	Q604	P232004	Q#BC849C N SS SOT23	1
I622	P230653	U#76013	SC SOL28 P	1				
I623	P230203	U#084	TL SO14 P	1	R 1	P200095	R# CE H 8K2 J 0W12 1206	1
I624	P230653	U#76013	SC SOL28 P	1	R 2	P200087	R# CE H 3K9 J 0W12 1206	1
I625	P230653	U#76013	SC SOL28 P	1	R 3	P200077	R# CE H 1K5 J 0W12 1206	1
I626	P230203	U#084	TL SO14 P	1	R 4	P200085	R# CE H 3K3 J 0W12 1206	1
J 1	R313925	J CT H	MBT P 5 M2SN	1	R 5	P200073	R# CE H 1K J 0W12 1206	1
J601	R313928	J CT H	MBT P 8 M2SN	1	R 6	P200057	R# CE H220E J 0W12 1206	1
J602	R313928	J CT H	MBT P 8 M2SN	1	R 7	P200085	R# CE H 3K3 J 0W12 1206	1
J603	R313925	J CT H	MBT P 5 M2SN	1	R 8	P200077	R# CE H 1K5 J 0W12 1206	1
J604	R313926	J CT H	MBT P 6 M2SN	1	R 9	P200097	R# CE H 10K J 0W12 1206	1
J605	R313928	J CT H	MBT P 8 M2SN	1	R 10	P200089	R# CE H 4K7 J 0W12 1206	1
J606	R313922	J CT H	MBT P 2 M2SN	1	R 11	P200077	R# CE H 1K5 J 0W12 1206	1
J607	R313924	J CT H	MBT P 4 M2SN	1	R 12	P200089	R# CE H 4K7 J 0W12 1206	1
J608	R313925	J CT H	MBT P 5 M2SN	1	R 14	P200073	R# CE H 1K J 0W12 1206	1
					R 15	P200101	R# CE H 15K J 0W12 1206	1

Convergence module (DRIVER)

GREEN Convergence module

R762512
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R 16	P200073	R# CE H 1K J 0W12 1206	1	R 87	P200097	R# CE H 10K J 0W12 1206	1
R 17	P200091	R# CE H 5K6 J 0W12 1206	1	R 88	P200097	R# CE H 10K J 0W12 1206	1
R 18	P200091	R# CE H 5K6 J 0W12 1206	1	R 89	P200081	R# CE H 2K2 J 0W12 1206	1
R 19	P200085	R# CE H 3K3 J 0W12 1206	1	R 90	P200073	R# CE H 1K J 0W12 1206	1
R 20	P200073	R# CE H 1K J 0W12 1206	1	R 91	P200087	R# CE H 3K9 J 0W12 1206	1
R 21	P200073	R# CE H 1K J 0W12 1206	1	R 92	P200081	R# CE H 2K2 J 0W12 1206	1
R 22	P200097	R# CE H 10K J 0W12 1206	1	R 93	P200099	R# CE H 12K J 0W12 1206	1
R 23	P200131	R# CE H270K J 0W12 1206	1	R 94	P200089	R# CE H 4K7 J 0W12 1206	1
R 24	P200073	R# CE H 1K J 0W12 1206	1	R 95	P200089	R# CE H 4K7 J 0W12 1206	1
R 25	P200073	R# CE H 1K J 0W12 1206	1	R 96	P200089	R# CE H 4K7 J 0W12 1206	1
R 26	P200073	R# CE H 1K J 0W12 1206	1	R 97	P200097	R# CE H 10K J 0W12 1206	1
R 27	P200101	R# CE H 15K J 0W12 1206	1	R 98	P200097	R# CE H 10K J 0W12 1206	1
R 28	P200101	R# CE H 15K J 0W12 1206	1	R 99	P200097	R# CE H 10K J 0W12 1206	1
R 29	P200101	R# CE H 15K J 0W12 1206	1	R100	P200085	R# CE H 3K3 J 0W12 1206	1
R 30	P200081	R# CE H 2K2 J 0W12 1206	1	R102	P200105	R# CE H 22K J 0W12 1206	1
R 31	P200073	R# CE H 1K J 0W12 1206	1	R103	P200073	R# CE H 1K J 0W12 1206	1
R 32	P200073	R# CE H 1K J 0W12 1206	1	R104	P200073	R# CE H 1K J 0W12 1206	1
R 33	P200089	R# CE H 4K7 J 0W12 1206	1	R105	P200083	R# CE H 2K7 J 0W12 1206	1
R 34	P200097	R# CE H 10K J 0W12 1206	1	R106	P200105	R# CE H 22K J 0W12 1206	1
R 35	P200121	R# CE H100K J 0W12 1206	1	R107	P200049	R# CE H100E J 0W12 1206	1
R 36	P200085	R# CE H 3K3 J 0W12 1206	1	R108	P200087	R# CE H 3K9 J 0W12 1206	1
R 37	P200097	R# CE H 10K J 0W12 1206	1	R109	P200081	R# CE H 2K2 J 0W12 1206	1
R 38	P200077	R# CE H 1K5 J 0W12 1206	1	R110	P200099	R# CE H 12K J 0W12 1206	1
R 39	P200105	R# CE H 22K J 0W12 1206	1	R111	P200087	R# CE H 3K9 J 0W12 1206	1
R 40	P200085	R# CE H 3K3 J 0W12 1206	1	R112	P200079	R# CE H 1K8 J 0W12 1206	1
R 41	P200111	R# CE H 39K J 0W12 1206	1	R113	P200073	R# CE H 1K J 0W12 1206	1
R 42	P200097	R# CE H 10K J 0W12 1206	1	R114	P200081	R# CE H 2K2 J 0W12 1206	1
R 43	P200121	R# CE H100K J 0W12 1206	1	R115	P200095	R# CE H 8K2 J 0W12 1206	1
R 44	P200093	R# CE H 6K8 J 0W12 1206	1	R116	P200097	R# CE H 10K J 0W12 1206	1
R 45	P200093	R# CE H 6K8 J 0W12 1206	1	R118	P200093	R# CE H 6K8 J 0W12 1206	1
R 46	P200097	R# CE H 10K J 0W12 1206	1	R119	P200093	R# CE H 6K8 J 0W12 1206	1
R 47	P200081	R# CE H 2K2 J 0W12 1206	1	R120	P200081	R# CE H 2K2 J 0W12 1206	1
R 48	P200081	R# CE H 2K2 J 0W12 1206	1	R121	P200081	R# CE H 2K2 J 0W12 1206	1
R 49	P200097	R# CE H 10K J 0W12 1206	1	R122	P200101	R# CE H 15K J 0W12 1206	1
R 50	P200097	R# CE H 10K J 0W12 1206	1	R123	P200101	R# CE H 15K J 0W12 1206	1
R 51	P200121	R# CE H100K J 0W12 1206	1	R124	P200101	R# CE H 15K J 0W12 1206	1
R 52	P200097	R# CE H 10K J 0W12 1206	1	R125	P200101	R# CE H 15K J 0W12 1206	1
R 54	P200386	R# CE H 91E F 0W12 1206	1	R126	P200097	R# CE H 10K J 0W12 1206	1
R 55	P200051	R# CE H120E J 0W12 1206	1	R127	P200081	R# CE H 2K2 J 0W12 1206	1
R 58	P200089	R# CE H 4K7 J 0W12 1206	1	R128	P200079	R# CE H 1K8 J 0W12 1206	1
R 59	P200085	R# CE H 3K3 J 0W12 1206	1	R129	P200065	R# CE H470E J 0W12 1206	1
R 60	P200081	R# CE H 2K2 J 0W12 1206	1	R130	P200065	R# CE H470E J 0W12 1206	1
R 61	P200081	R# CE H 2K2 J 0W12 1206	1	R131	P200081	R# CE H 2K2 J 0W12 1206	1
R 62	P200097	R# CE H 10K J 0W12 1206	1	R132	P200101	R# CE H 15K J 0W12 1206	1
R 63	P200097	R# CE H 10K J 0W12 1206	1	R133	P200101	R# CE H 15K J 0W12 1206	1
R 64	P200097	R# CE H 10K J 0W12 1206	1	R134	P200101	R# CE H 15K J 0W12 1206	1
R 65	P200093	R# CE H 6K8 J 0W12 1206	1	R135	P200101	R# CE H 15K J 0W12 1206	1
R 66	P200093	R# CE H 6K8 J 0W12 1206	1	R136	P200081	R# CE H 2K2 J 0W12 1206	1
R 67	P200081	R# CE H 2K2 J 0W12 1206	1	R137	P200093	R# CE H 6K8 J 0W12 1206	1
R 68	P200073	R# CE H 1K J 0W12 1206	1	R138	P200093	R# CE H 6K8 J 0W12 1206	1
R 69	P200073	R# CE H 1K J 0W12 1206	1	R139	P200097	R# CE H 10K J 0W12 1206	1
R 70	P200099	R# CE H 12K J 0W12 1206	1	R140	P200079	R# CE H 1K8 J 0W12 1206	1
R 71	P200073	R# CE H 1K J 0W12 1206	1	R141	P200087	R# CE H 3K9 J 0W12 1206	1
R 72	P200073	R# CE H 1K J 0W12 1206	1	R143	P200121	R# CE H100K J 0W12 1206	1
R 73	P200099	R# CE H 12K J 0W12 1206	1	R144	P200073	R# CE H 1K J 0W12 1206	1
R 74	P200085	R# CE H 3K3 J 0W12 1206	1	R145	P200049	R# CE H100E J 0W12 1206	1
R 75	P200097	R# CE H 10K J 0W12 1206	1	R146	P200097	R# CE H 10K J 0W12 1206	1
R 76	P200085	R# CE H 3K3 J 0W12 1206	1	R147	P200085	R# CE H 3K3 J 0W12 1206	1
R 77	P200073	R# CE H 1K J 0W12 1206	1	R148	P200105	R# CE H 22K J 0W12 1206	1
R 78	P200099	R# CE H 12K J 0W12 1206	1	R149	P200085	R# CE H 3K3 J 0W12 1206	1
R 79	P200073	R# CE H 1K J 0W12 1206	1	R150	P200073	R# CE H 1K J 0W12 1206	1
R 80	P200065	R# CE H470E J 0W12 1206	1	R151	P200085	R# CE H 3K3 J 0W12 1206	1
R 81	P200099	R# CE H 12K J 0W12 1206	1	R152	P200087	R# CE H 3K9 J 0W12 1206	1
R 82	P200073	R# CE H 1K J 0W12 1206	1	R153	P200079	R# CE H 1K8 J 0W12 1206	1
R 83	P200089	R# CE H 4K7 J 0W12 1206	1	R154	P200073	R# CE H 1K J 0W12 1206	1
R 84	P200089	R# CE H 4K7 J 0W12 1206	1	R155	P200105	R# CE H 22K J 0W12 1206	1
R 85	P200089	R# CE H 4K7 J 0W12 1206	1	R156	P200073	R# CE H 1K J 0W12 1206	1
R 86	P200097	R# CE H 10K J 0W12 1206	1	R157	P200097	R# CE H 10K J 0W12 1206	1

Convergence module (DRIVER)

GREEN Convergence module

R762512
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R158	P200121	R# CE H100K J 0W12 1206	1	R229	P200111	R# CE H 39K J 0W12 1206	1
R159	P200073	R# CE H 1K J 0W12 1206	1	R230	P200101	R# CE H 15K J 0W12 1206	1
R160	P200097	R# CE H 10K J 0W12 1206	1	R231	P200083	R# CE H 2K7 J 0W12 1206	1
R161	P200097	R# CE H 10K J 0W12 1206	1	R232	P200121	R# CE H100K J 0W12 1206	1
R162	P200097	R# CE H 10K J 0W12 1206	1	R233	P200097	R# CE H 10K J 0W12 1206	1
R163	P200073	R# CE H 1K J 0W12 1206	1	R234	P200121	R# CE H100K J 0W12 1206	1
R164	P200081	R# CE H 2K2 J 0W12 1206	1	R235	P200087	R# CE H 3K9 J 0W12 1206	1
R165	P200101	R# CE H 15K J 0W12 1206	1	R236	P200107	R# CE H 27K J 0W12 1206	1
R166	P200101	R# CE H 15K J 0W12 1206	1	R237	P200085	R# CE H 3K3 J 0W12 1206	1
R167	P200101	R# CE H 15K J 0W12 1206	1	R238	P200099	R# CE H 12K J 0W12 1206	1
R168	P200101	R# CE H 15K J 0W12 1206	1	R239	P200099	R# CE H 12K J 0W12 1206	1
R170	P200097	R# CE H 10K J 0W12 1206	1	R240	P200097	R# CE H 10K J 0W12 1206	1
R172	P200073	R# CE H 1K J 0W12 1206	1	R241	P200099	R# CE H 12K J 0W12 1206	1
R173	P200081	R# CE H 2K2 J 0W12 1206	1	R242	P200097	R# CE H 10K J 0W12 1206	1
R174	P200101	R# CE H 15K J 0W12 1206	1	R243	P200085	R# CE H 3K3 J 0W12 1206	1
R175	P200101	R# CE H 15K J 0W12 1206	1	R244	P200081	R# CE H 2K2 J 0W12 1206	1
R176	P200101	R# CE H 15K J 0W12 1206	1	R245	P200095	R# CE H 8K2 J 0W12 1206	1
R177	P200101	R# CE H 15K J 0W12 1206	1	R246	P200095	R# CE H 8K2 J 0W12 1206	1
R178	P200073	R# CE H 1K J 0W12 1206	1	R247	P200081	R# CE H 2K2 J 0W12 1206	1
R179	P200097	R# CE H 10K J 0W12 1206	1	R248	P200081	R# CE H 2K2 J 0W12 1206	1
R180	P200097	R# CE H 10K J 0W12 1206	1	R249	P200073	R# CE H 1K J 0W12 1206	1
R181	P200085	R# CE H 3K3 J 0W12 1206	1	R250	P200073	R# CE H 1K J 0W12 1206	1
R182	P200083	R# CE H 2K7 J 0W12 1206	1	R251	P200077	R# CE H 1K5 J 0W12 1206	1
R183	P200097	R# CE H 10K J 0W12 1206	1	R252	P200073	R# CE H 1K J 0W12 1206	1
R184	P200145	R# CE H 1M J 0W12 1206	1	R253	P200103	R# CE H 18K J 0W12 1206	1
R185	P200073	R# CE H 1K J 0W12 1206	1	R254	P200103	R# CE H 18K J 0W12 1206	1
R186	P200085	R# CE H 3K3 J 0W12 1206	1	R255	P200103	R# CE H 18K J 0W12 1206	1
R187	P200085	R# CE H 3K3 J 0W12 1206	1	R256	P200103	R# CE H 18K J 0W12 1206	1
R188	P200097	R# CE H 10K J 0W12 1206	1	R257	P200131	R# CE H270K J 0W12 1206	1
R189	P200105	R# CE H 22K J 0W12 1206	1	R258	P200095	R# CE H 8K2 J 0W12 1206	1
R190	P200077	R# CE H 1K5 J 0W12 1206	1	R261	P200121	R# CE H100K J 0W12 1206	1
R191	P200077	R# CE H 1K5 J 0W12 1206	1	R262	P200073	R# CE H 1K J 0W12 1206	1
R192	P200077	R# CE H 1K5 J 0W12 1206	1	R264	P200097	R# CE H 10K J 0W12 1206	1
R193	P200077	R# CE H 1K5 J 0W12 1206	1	R266	P200097	R# CE H 10K J 0W12 1206	1
R194	P200097	R# CE H 10K J 0W12 1206	1	R267	P200097	R# CE H 10K J 0W12 1206	1
R195	P200081	R# CE H 2K2 J 0W12 1206	1	R268	P200103	R# CE H 18K J 0W12 1206	1
R196	P200073	R# CE H 1K J 0W12 1206	1	R269	P200103	R# CE H 18K J 0W12 1206	1
R197	P200073	R# CE H 1K J 0W12 1206	1	R274	P200103	R# CE H 18K J 0W12 1206	1
R198	P200089	R# CE H 4K7 J 0W12 1206	1	R275	P200103	R# CE H 18K J 0W12 1206	1
R199	P200097	R# CE H 10K J 0W12 1206	1	R276	P200103	R# CE H 18K J 0W12 1206	1
R200	P200087	R# CE H 3K9 J 0W12 1206	1	R277	P200103	R# CE H 18K J 0W12 1206	1
R201	P200097	R# CE H 10K J 0W12 1206	1	R278	P200113	R# CE H 47K J 0W12 1206	1
R202	P200093	R# CE H 6K8 J 0W12 1206	1	R279	P200057	R# CE H220E J 0W12 1206	1
R203	P200093	R# CE H 6K8 J 0W12 1206	1	R280	P200095	R# CE H 8K2 J 0W12 1206	1
R204	P200081	R# CE H 2K2 J 0W12 1206	1	R281	P200095	R# CE H 8K2 J 0W12 1206	1
R205	P200081	R# CE H 2K2 J 0W12 1206	1	R282	P200095	R# CE H 8K2 J 0W12 1206	1
R206	P200101	R# CE H 15K J 0W12 1206	1	R283	P200089	R# CE H 4K7 J 0W12 1206	1
R207	P200101	R# CE H 15K J 0W12 1206	1	R284	P200081	R# CE H 2K2 J 0W12 1206	1
R208	P200101	R# CE H 15K J 0W12 1206	1	R285	P200081	R# CE H 2K2 J 0W12 1206	1
R209	P200101	R# CE H 15K J 0W12 1206	1	R286	P200073	R# CE H 1K J 0W12 1206	1
R210	P200089	R# CE H 4K7 J 0W12 1206	1	R287	P200097	R# CE H 10K J 0W12 1206	1
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Convergence module (DRIVER)

GREEN Convergence module

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R306	P200049	R# CE H100E J 0W12 1206	1	R378	P200121	R# CE H100K J 0W12 1206	1
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R365	P200049	R# CE H100E J 0W12 1206	1	R647	P200097	R# CE H 10K J 0W12 1206	1
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Convergence module (DRIVER)

GREEN Convergence module

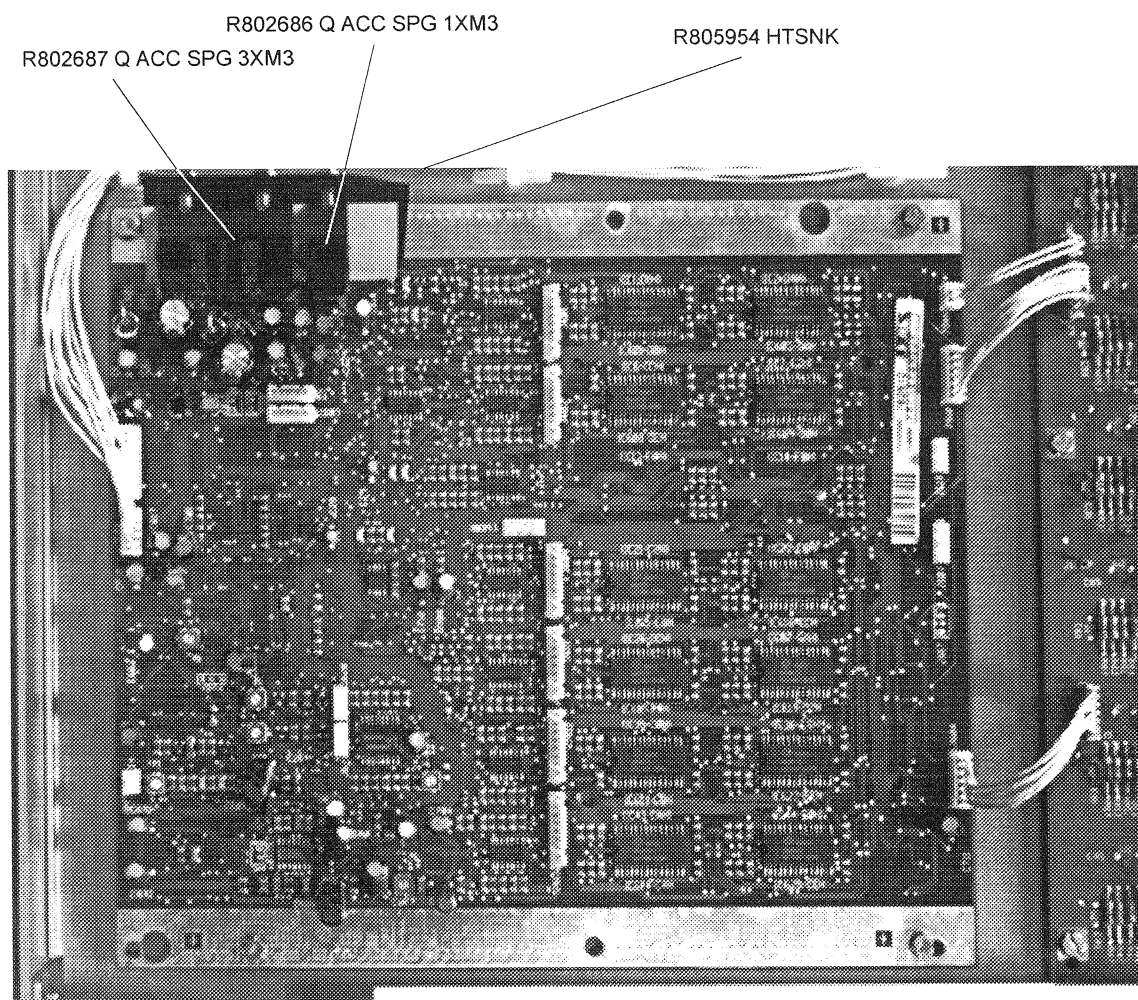
R762512
R7625128

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Convergence module (DRIVER)

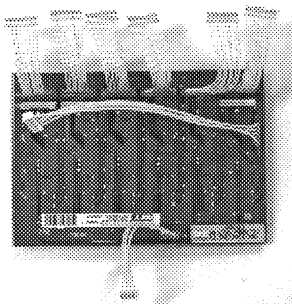
GREEN Convergence module

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R7625128

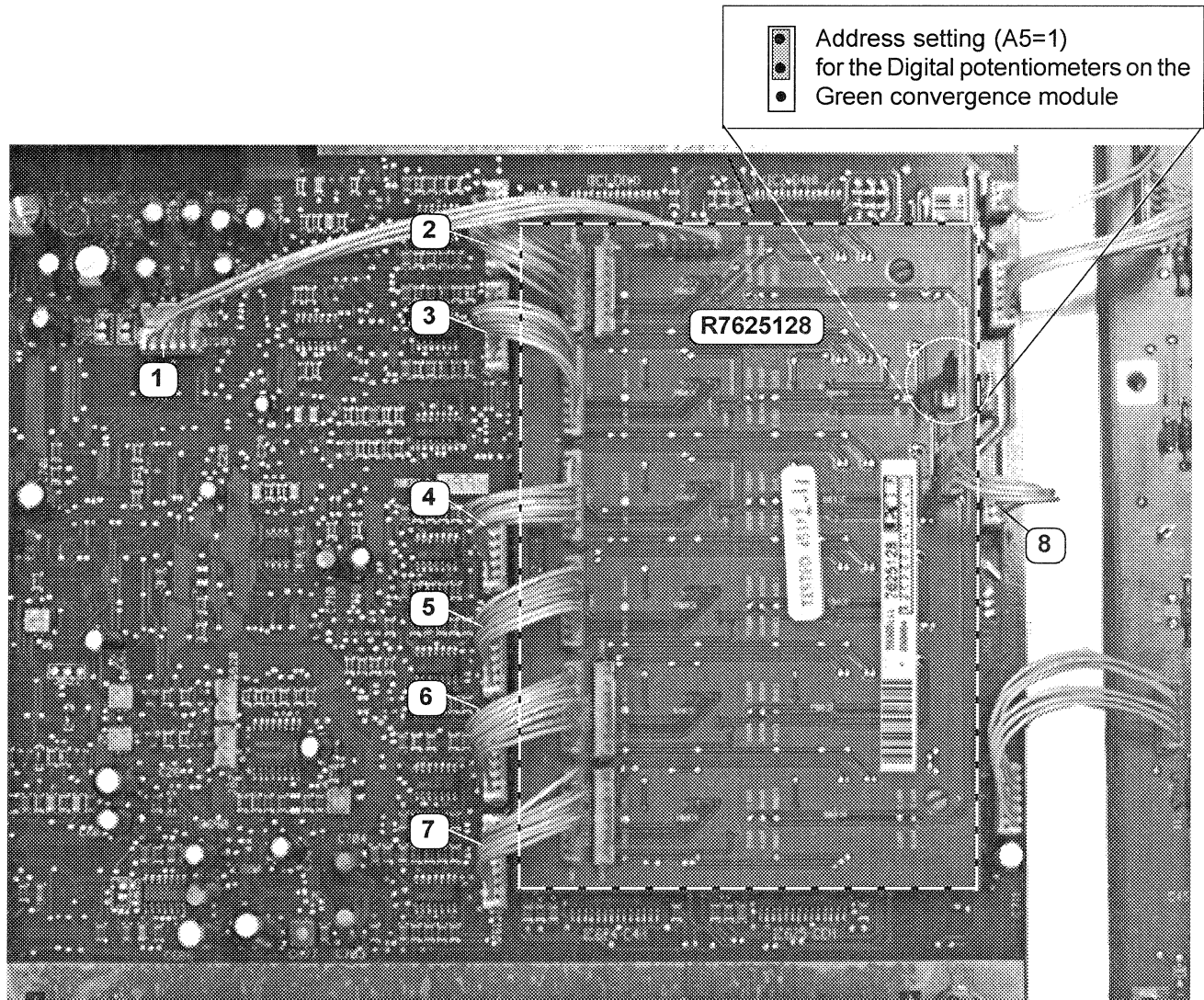


Mounting guidelines for the GREEN convergence module R7625128

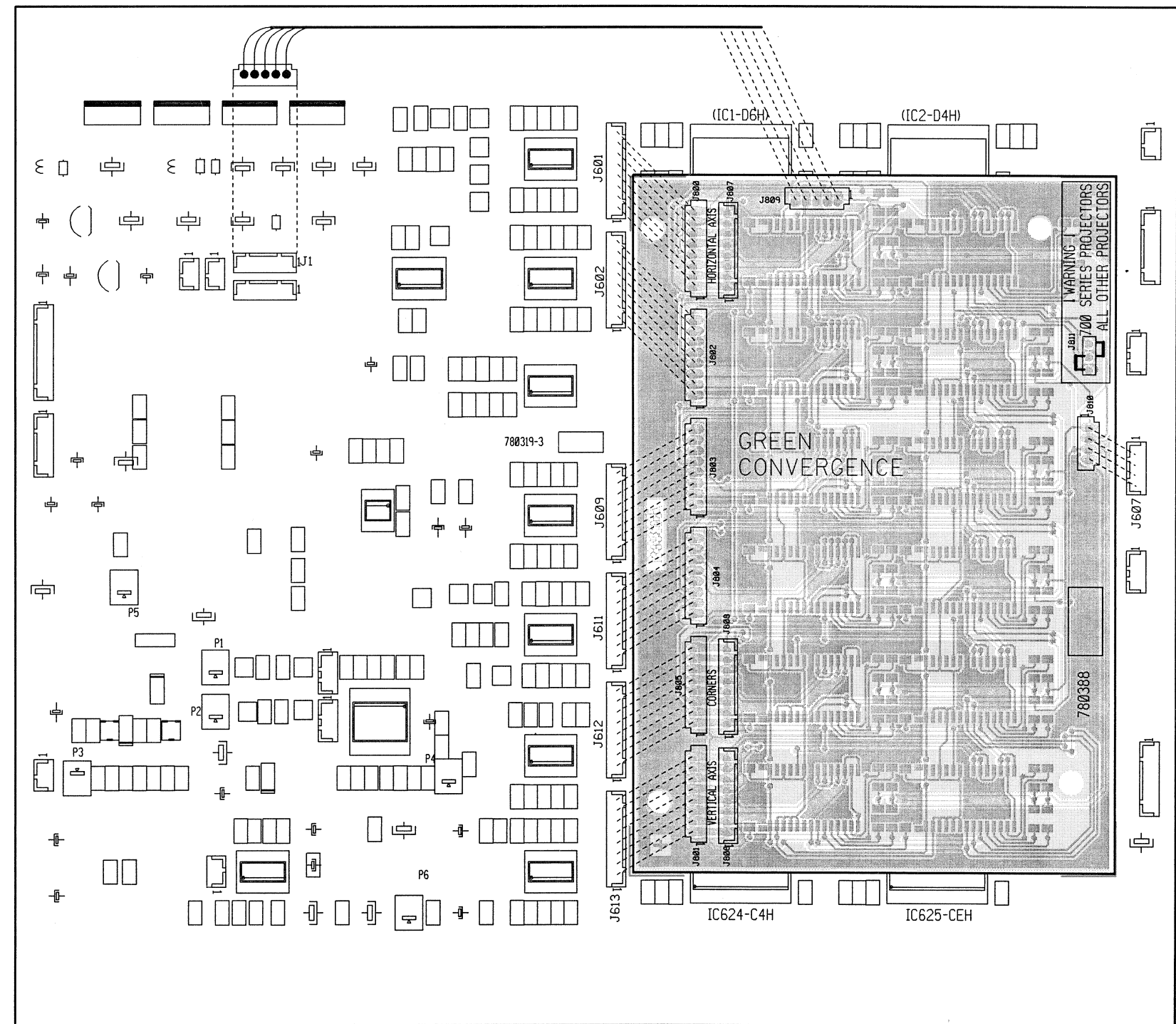
Green convergence
module R7625128



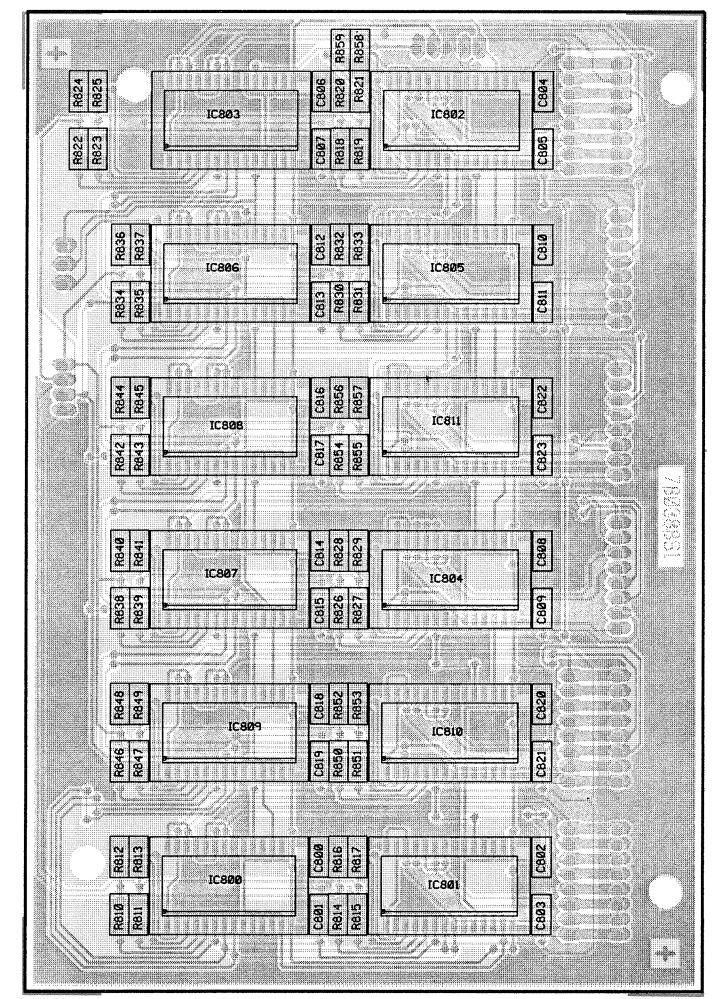
Interconnection Green convergence module



TOP VIEW



BOTTOM VIEW



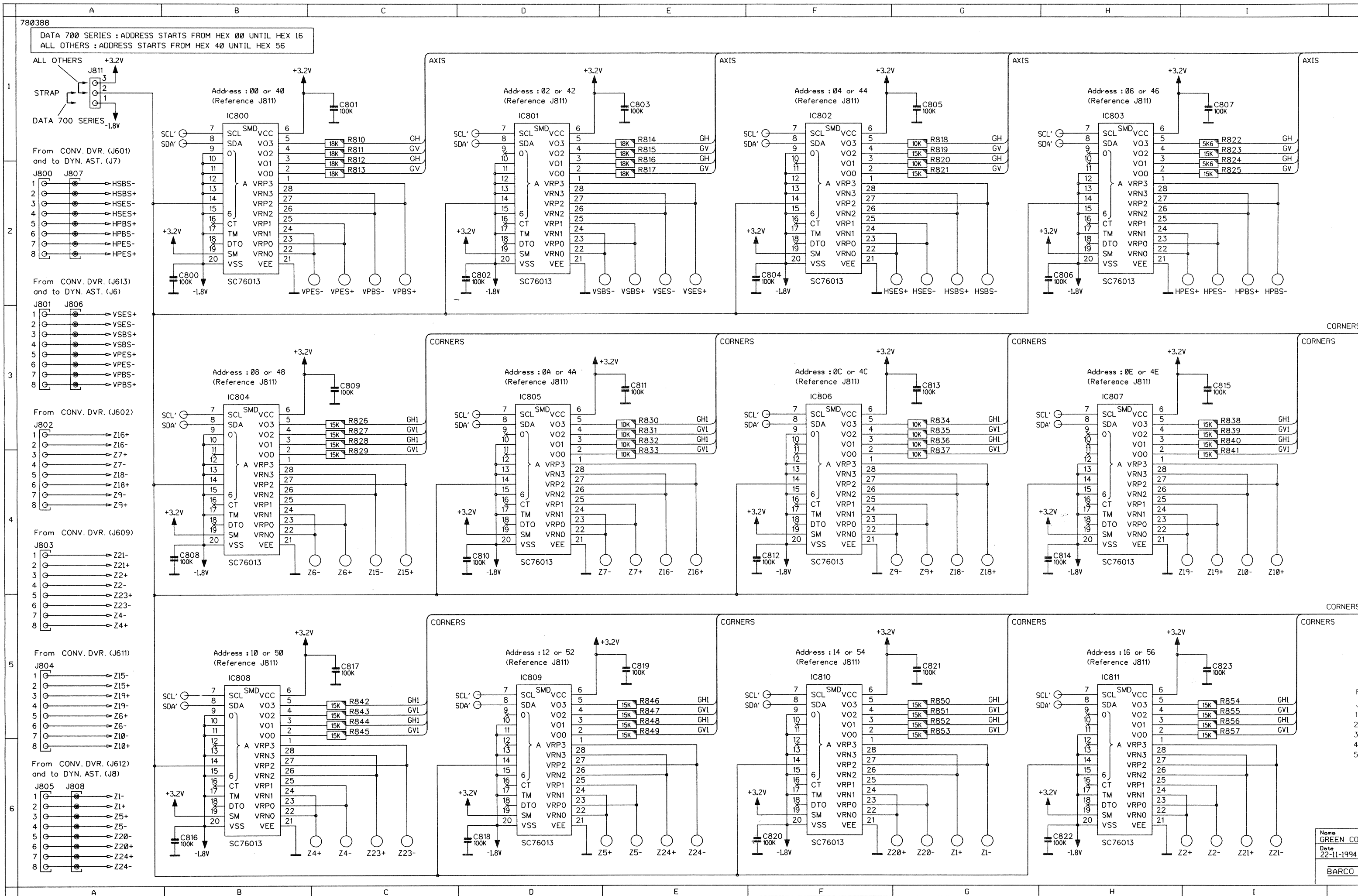
GREEN CONVERGENCE

CONVERGENCE DRIVER

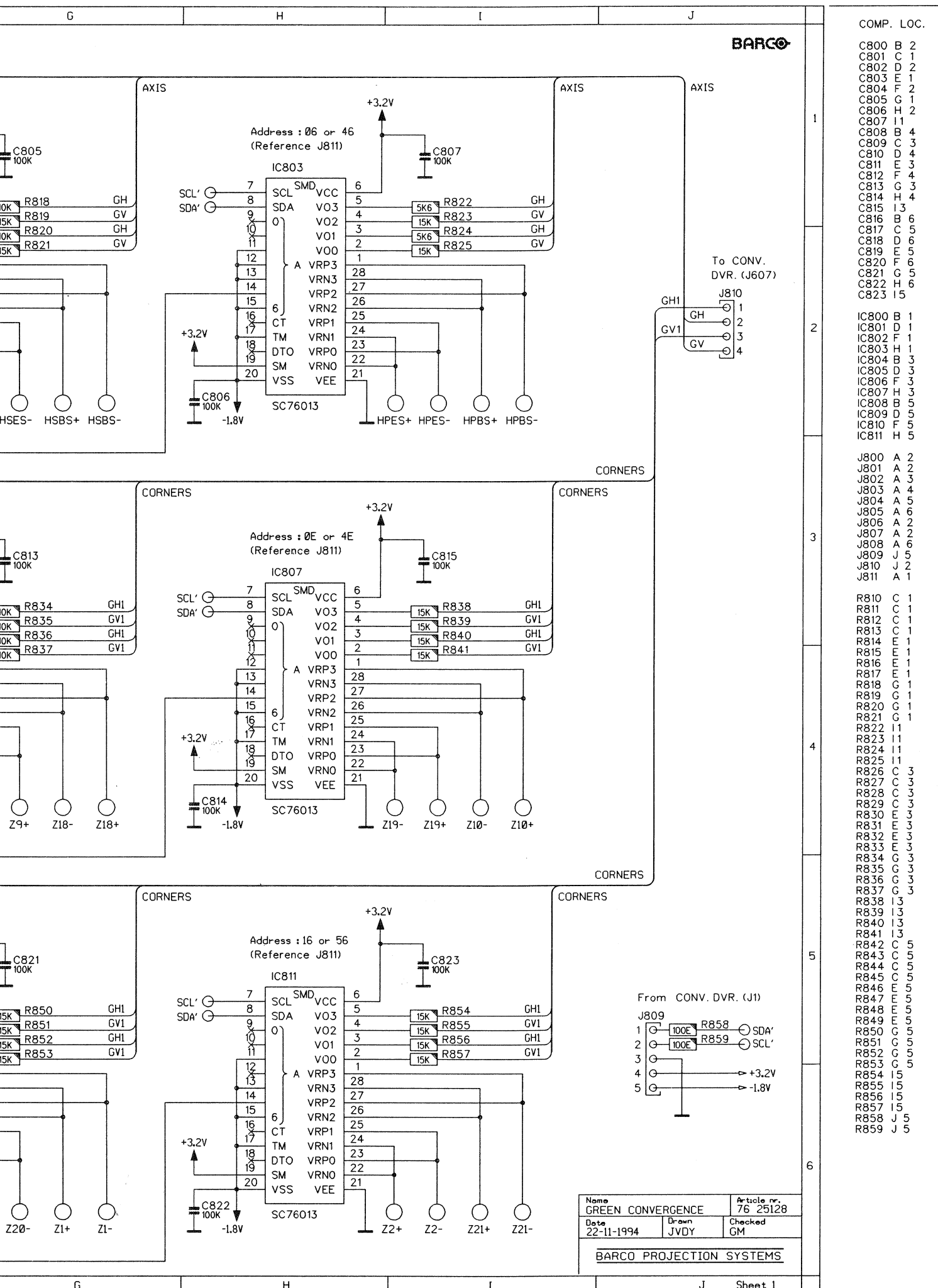
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Date	16-12-1994	Drawn	JVDY
		Checked	GM
BARCO PROJECTION SYSTEMS			

Modifications reserved

COMP.	LOC.	COMP.	LOC.	COMP.	LOC.
C4	C 2	IC605	B 2	R246	C 5
C8	C 3	IC606	B 2	R251	B 5
C11	C 3	IC607	B 2	R262	C 5
C19	C 3	IC610	C 3	R281	C 5
C22	C 3	IC611	A 3	R284	C 5
C26	B 5	IC612	A 3	R286	C 6
C27	A 5	IC613	C 3	R288	B 5
C28	B 3	IC614	C 3	R293	B 5
C29	B 3	IC617	C 4	R294	C 5
C41	A 5	IC620	C 4	R295	B 4
C42	D 5	IC623	C 5	R298	A 4
C43	D 5	IC626	C 5	R299	B 5
C45	C 5	IC800	G 5	R311	E 5
C46	C 5	IC801	G 5	R315	D 5
C49	D 2	IC802	G 3	R320	B 5
C52	C 5	IC803	G 3	R358	C 3
C53	C 6	IC804	G 4	R359	C 3
C57	C 2	IC805	G 3	R383	A 3
C58	C 3	IC806	G 3	R384	A 3
C69	D 2	IC807	G 4	R385	A 4
C71	C 5	IC808	G 4	R386	B 3
C72	B 5	IC809	G 5	R387	B 3
C74	C 5	IC810	G 5	R388	B 4
C86	B 5	IC811	G 4	R603	B 2
C87	C 4			R604	C 2
C88	B 5	J603	B 3	R609	C 2
C91	B 5	J604	E 5	R612	C 2
C92	B 5	J605	A 3	R617	C 2
C105	C 5	J606	E 3	R619	D 2
C107	C 5	J608	A 4	R621	D 2
C111	B 4	J610	E 3	R623	D 2
C112	B 4	J614	B 3	R624	C 3
C113	E 2	J615	B 5	R626	C 3
C114	E 2	J616	B 3	R628	C 3
C117	A 5	J617	E 4	R635	C 3
C118	B 5	J618	E 3	R637	C 3
C119	B 4	J619	A 5	R648	C 3
C120	B 5	J620	B 4	R652	B 3
C121	C 5	J621	B 5	R663	C 3
C122	C 5	J622	A 4	R664	C 3
C601	B 5	J800	D 3	R675	C 3
C602	B 4	J801	D 5	R676	C 3
C614	B 2	J802	D 3	R678	C 4
C615	B 2	J803	D 4	R681	C 4
C616	B 4	J804	D 4	R682	C 4
C617	A 4	J805	D 5	R684	C 4
C618	A 4	J806	D 5	R694	C 4
C619	C 2	J807	D 3	R697	C 4
C621	A 3	J808	D 4	R698	C 5
C622	A 3	J809	D 3	R700	C 5
C623	A 3	J810	E 3	R711	C 5
C624	B 2	J811	E 3	R714	C 5
C625	B 2			R716	C 5
C629	B 3	L601	A 2	R718	C 5
C630	A 4	L602	B 2	R735	C 5
C634	B 3			R737	C 5
C636	A 3	P1	B 4	R743	C 5
C642	A 2	P2	B 5	R746	C 5
C643	B 3	P3	A 5	R747	D 5
C644	C 4	P4	C 5	R749	C 5
C645	B 3	P5	A 4	R751	D 5
C650	A 5	P6	C 6	R753	D 5
C652	C 4			R801	D 2
C659	C 5	Q3	C 2	R803	E 2
C662	A 4	Q18	C 5	R810	F 5
C677	B 6	Q24	B 5	R811	G 5
C684	B 5	Q25	B 4	R812	F 5
C686	B 6	Q26	B 5	R813	G 5
C690	B 5	Q27	A 5	R814	G 5
C691	A 5	Q602	C 2	R815	G 5
C692	A 6			R816	G 5
C693	B 5	R3	C 2	R817	G 5
C701	A 4	R7	C 2	R818	G 3
C703	C 6	R16	C 2	R819	G 3
C704	C 5	R20	A 5	R820	G 3
C706	B 5	R21	A 5	R821	G 3
C708	C 4	R22	A 5	R822	F 3
C710	C 4	R24	A 5	R823	F 3
C711	F 5	R26	C 2	R824	F 3
C712	B 4	R36	C 2	R825	F 3
C713	B 4	R38	B 2	R826	G 4
C714	B 3	R39	C 2	R827	G 4
C715	C 3	R40	C 2	R828	G 4
C800	G 5	R41	A 5	R829	G 4
C801	G 5	R43	A 5	R830	G 3
C802	H 5	R45	C 3	R831	G 3
C803	H 5	R48	C 3	R832	G 3
C804	H 3	R60	C 3	R833	G 3
C805	H 3	R65	C 3	R834	F 3
C806	G 3	RT1	B 3	R835	G 3
C807	G 3	RT4	B 5	R836	F 3
C808	H 4	RT6	B 5	R837	G 3
C809	H 4	RT7	C 3	R838	F 4
C810	H 3	R92	C 3	R839	G 4
C811	H 3	R93	C 3	R840	F 4
C812	G 3	R103	B 5	R841	G 4
C813	G 3	R104	B 5	R842	F 4
C814	G 4	R110	C 3	R843	G 4
C815	G 4	R114	C 3	R844	F 4
C816	G 4	R115	A 5	R845	G 4
C817	G 4	R119	C 4	R846	F 5
C818	G 5	R120	C 4	R847	G 5
C819	G 5	R128	B 5	R848	F 5
C820	H 5	R136	C 4	R849	G 5
C821	H 5	R138	C 4	R850	G 5
C822	H 4	R140	B 4	R851	G 5
C823	H 4	R141	B 4	R852	G 5
		R162	C 4	R853	G 5
D2	C 2	R163	C 4	R854	G 4
D4	B 5	R178	C 5	R855	G 4
D5	B 5	R180	C 5	R856	G 4
D6	C 3	R182	C 5	R857	G 4
D7	C 3	R183	B 5	R858	C 3
D8	C 4	R184	C 5	R859	G 3
D9	B 5	R191	C 4	R900	B 5
D28	C 4	R192	C 4	R901	B 5
D29	C 4	R199	C 4	R902	B 5
D601	C 2	R203	C 5	R903	B 5
		R204	C 5	R904	B 5
F101	E 2	R210	A 5	R905	B 5
F102	E 6	R213	C 4		
F103	A 6	R214	C 4	SR1	A 2
F104	E 2	R222	C 5	SR2	B 2
F105	E 6	R224	C 5	SR3	B 2
F106	A 6	R229	C 5	SR4	B 3
		R230	C 5		
IC30	B 5	R231	B 5	Z3	B 5
IC32	B 4	R233	B 6	Z4	A 5
IC39	B 5	R236	B 4		
IC601	D 2	R239	B 4		
IC602	E 2	R241	C 4		
IC603	C 2	R242	C 4		
IC604	A 2	R244	C 5		



Name
GREEN CON
Date
22-11-1994
BARCO P



Convergence module (DRIVER)

GREEN Convergence module

R762512

R7625128

Parts listing Green Convergence module R7625128

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
1000	R3133921	J MD JMP P 1 E1SN	1	R819	P200101	R# CE H 15K J 0W12 1206	1
1010	R312868	SPR PCB L 6.35 DLCBS	4	R820	P200097	R# CE H 10K J 0W12 1206	1
C800	P210122	C# X7R MU 100N K 50 1206	1	R821	P200101	R# CE H 15K J 0W12 1206	1
C801	P210122	C# X7R MU 100N K 50 1206	1	R822	P200091	R# CE H 5K6 J 0W12 1206	1
C802	P210122	C# X7R MU 100N K 50 1206	1	R823	P200101	R# CE H 15K J 0W12 1206	1
C803	P210122	C# X7R MU 100N K 50 1206	1	R824	P200091	R# CE H 5K6 J 0W12 1206	1
C804	P210122	C# X7R MU 100N K 50 1206	1	R825	P200101	R# CE H 15K J 0W12 1206	1
C805	P210122	C# X7R MU 100N K 50 1206	1	R826	P200101	R# CE H 15K J 0W12 1206	1
C806	P210122	C# X7R MU 100N K 50 1206	1	R827	P200101	R# CE H 15K J 0W12 1206	1
C807	P210122	C# X7R MU 100N K 50 1206	1	R828	P200101	R# CE H 15K J 0W12 1206	1
C808	P210122	C# X7R MU 100N K 50 1206	1	R829	P200101	R# CE H 15K J 0W12 1206	1
C809	P210122	C# X7R MU 100N K 50 1206	1	R830	P200097	R# CE H 10K J 0W12 1206	1
C810	P210122	C# X7R MU 100N K 50 1206	1	R831	P200097	R# CE H 10K J 0W12 1206	1
C811	P210122	C# X7R MU 100N K 50 1206	1	R832	P200097	R# CE H 10K J 0W12 1206	1
C812	P210122	C# X7R MU 100N K 50 1206	1	R833	P200097	R# CE H 10K J 0W12 1206	1
C813	P210122	C# X7R MU 100N K 50 1206	1	R834	P200097	R# CE H 10K J 0W12 1206	1
C814	P210122	C# X7R MU 100N K 50 1206	1	R835	P200097	R# CE H 10K J 0W12 1206	1
C815	P210122	C# X7R MU 100N K 50 1206	1	R836	P200097	R# CE H 10K J 0W12 1206	1
C816	P210122	C# X7R MU 100N K 50 1206	1	R837	P200097	R# CE H 10K J 0W12 1206	1
C817	P210122	C# X7R MU 100N K 50 1206	1	R838	P200101	R# CE H 15K J 0W12 1206	1
C818	P210122	C# X7R MU 100N K 50 1206	1	R839	P200101	R# CE H 15K J 0W12 1206	1
C819	P210122	C# X7R MU 100N K 50 1206	1	R840	P200101	R# CE H 15K J 0W12 1206	1
C820	P210122	C# X7R MU 100N K 50 1206	1	R841	P200101	R# CE H 15K J 0W12 1206	1
C821	P210122	C# X7R MU 100N K 50 1206	1	R842	P200101	R# CE H 15K J 0W12 1206	1
C822	P210122	C# X7R MU 100N K 50 1206	1	R843	P200101	R# CE H 15K J 0W12 1206	1
C823	P210122	C# X7R MU 100N K 50 1206	1	R844	P200101	R# CE H 15K J 0W12 1206	1
I800	P230653	U#76013 SC SOL28 P	1	R845	P200101	R# CE H 15K J 0W12 1206	1
I801	P230653	U#76013 SC SOL28 P	1	R846	P200101	R# CE H 15K J 0W12 1206	1
I802	P230653	U#76013 SC SOL28 P	1	R847	P200101	R# CE H 15K J 0W12 1206	1
I803	P230653	U#76013 SC SOL28 P	1	R848	P200101	R# CE H 15K J 0W12 1206	1
I804	P230653	U#76013 SC SOL28 P	1	R849	P200101	R# CE H 15K J 0W12 1206	1
I805	P230653	U#76013 SC SOL28 P	1	R850	P200101	R# CE H 15K J 0W12 1206	1
I806	P230653	U#76013 SC SOL28 P	1	R851	P200101	R# CE H 15K J 0W12 1206	1
I807	P230653	U#76013 SC SOL28 P	1	R852	P200101	R# CE H 15K J 0W12 1206	1
I808	P230653	U#76013 SC SOL28 P	1	R853	P200101	R# CE H 15K J 0W12 1206	1
I809	P230653	U#76013 SC SOL28 P	1	R854	P200101	R# CE H 15K J 0W12 1206	1
I810	P230653	U#76013 SC SOL28 P	1	R855	P200101	R# CE H 15K J 0W12 1206	1
311	P230653	U#76013 SC SOL28 P	1	R856	P200101	R# CE H 15K J 0W12 1206	1
J800	R348408	CD CT FTMT P 8 60	1	R857	P200101	R# CE H 15K J 0W12 1206	1
J801	R348408	CD CT FTMT P 8 60	1	R858	P200049	R# CE H100E J 0W12 1206	1
J802	R348408	CD CT FTMT P 8 60	1	R859	P200049	R# CE H100E J 0W12 1206	1
J803	R348408	CD CT FTMT P 8 60	1				
J804	R348408	CD CT FTMT P 8 60	1				
J805	R348408	CD CT FTMT P 8 60	1				
J806	R313928	J CT H MBT P 8 M2SN	1				
J807	R313928	J CT H MBT P 8 M2SN	1				
J808	R313928	J CT H MBT P 8 M2SN	1				
J809	R3485057	CD CT FTMT P 5 130	1				
J810	R3484048	CD CT FTMT P 4 60	1				
J811	R313286	J MO1 C MBT P 3 R1SN 7,5	1				
PC	R780388	PCD#PJ56 G808 CNV GRE	1				
R810	P200103	R# CE H 18K J 0W12 1206	1				
R811	P200103	R# CE H 18K J 0W12 1206	1				
R812	P200103	R# CE H 18K J 0W12 1206	1				
R813	P200103	R# CE H 18K J 0W12 1206	1				
R814	P200103	R# CE H 18K J 0W12 1206	1				
R815	P200103	R# CE H 18K J 0W12 1206	1				
R816	P200103	R# CE H 18K J 0W12 1206	1				
R817	P200103	R# CE H 18K J 0W12 1206	1				
R818	P200097	R# CE H 10K J 0W12 1206	1				