

Convergence module (DRIVER)

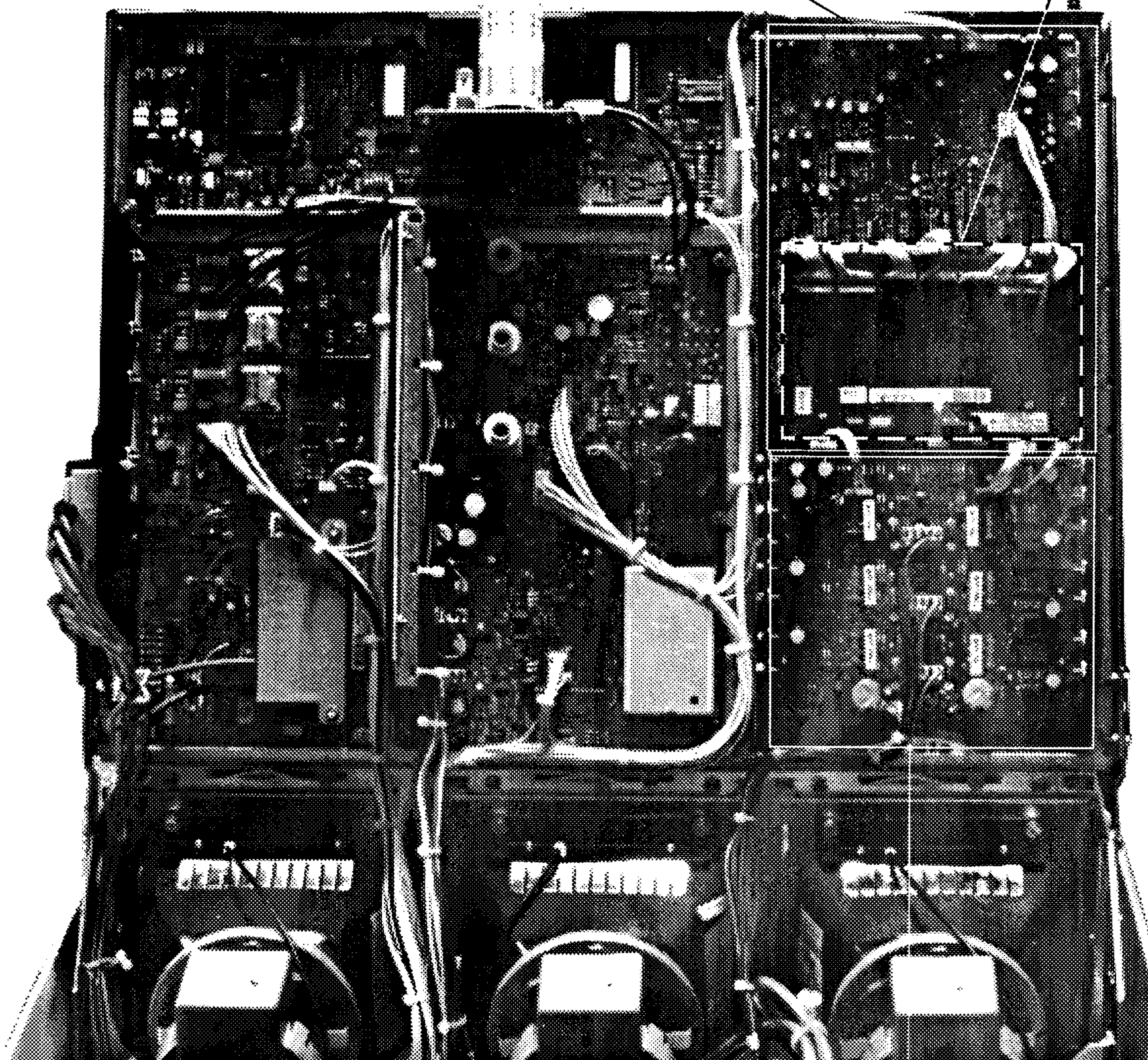
GREEN Convergence module

R762454

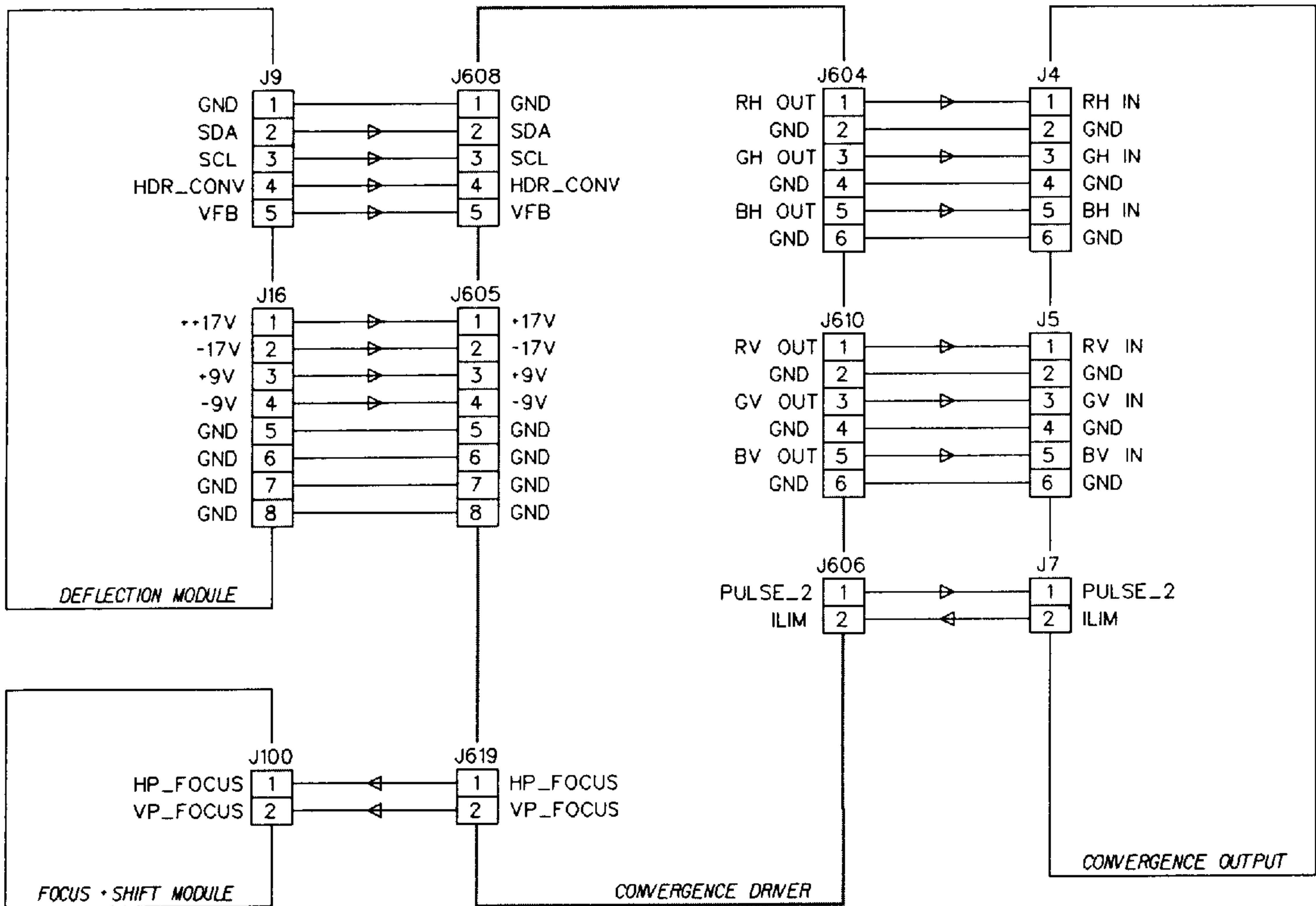
R7625128

Convergence module (Driver)
R762454

GREEN Convergence module
(Driver) R7625128



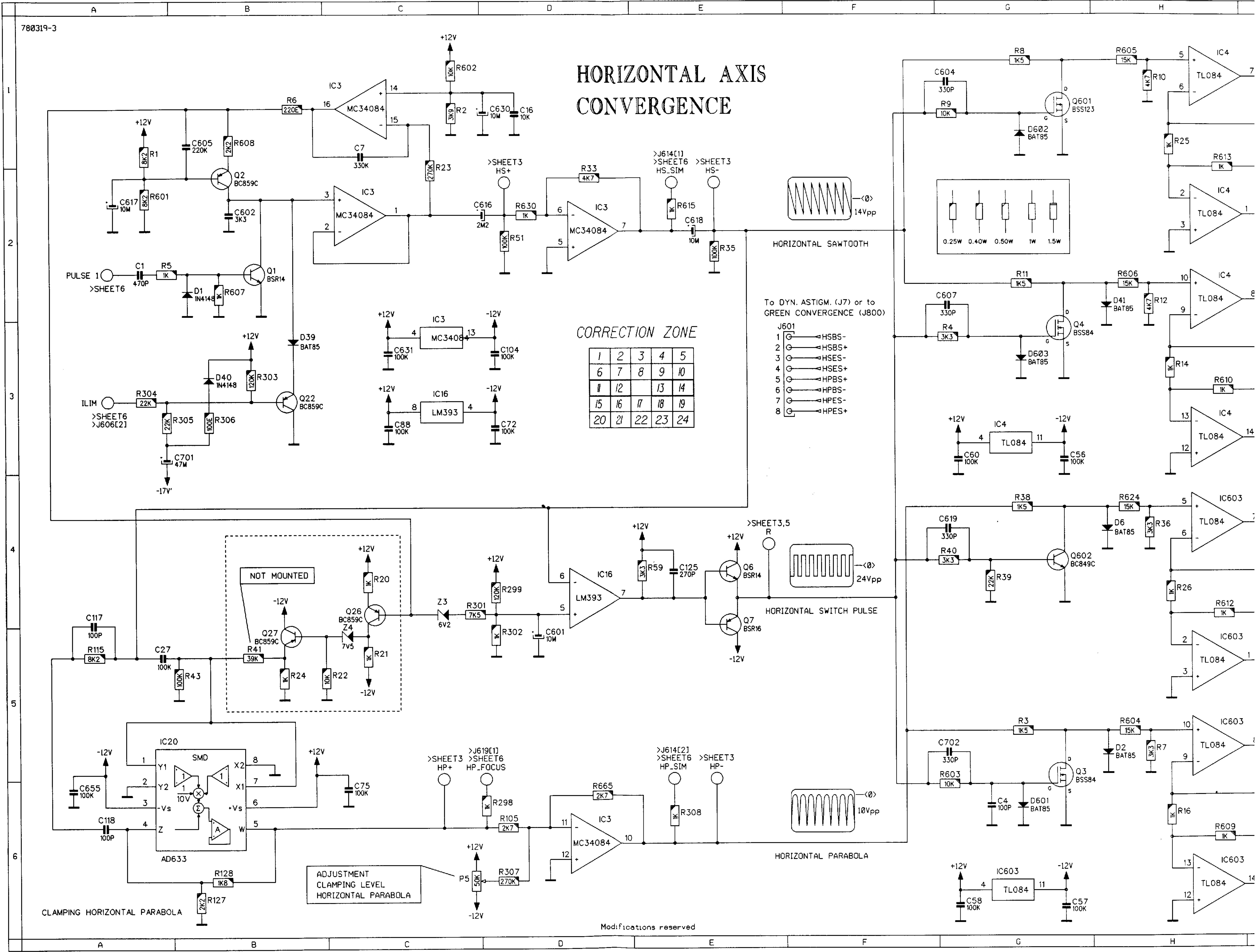
Convergence module (Output)
R762455

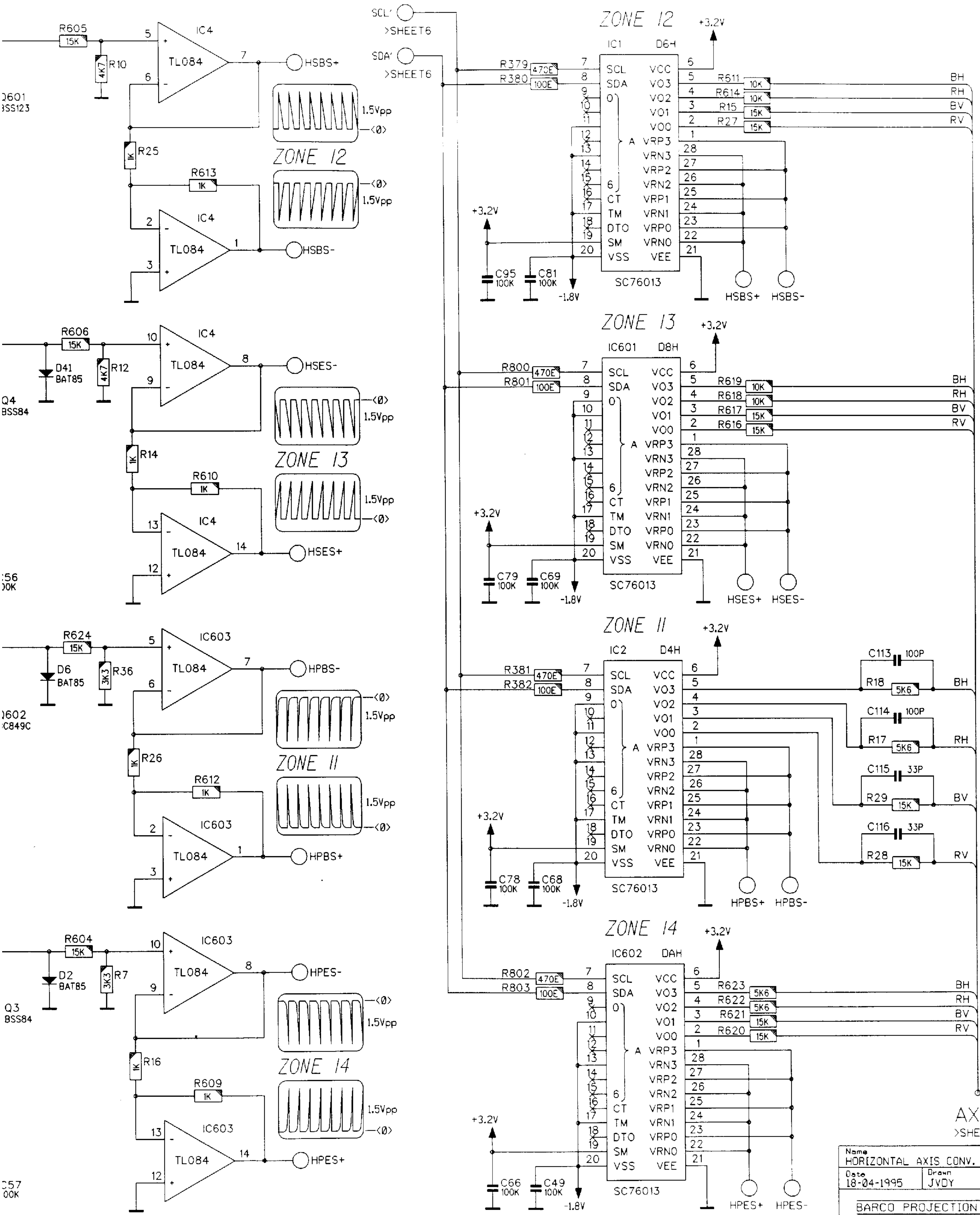


Name Interconnection		Article nr.
CONVERGENCE DRIVER		76 2454
Date	Drawn	Checked
18-04-1995	JVDY	GM
BARCO PROJECTION SYSTEMS		

Modifications reserved

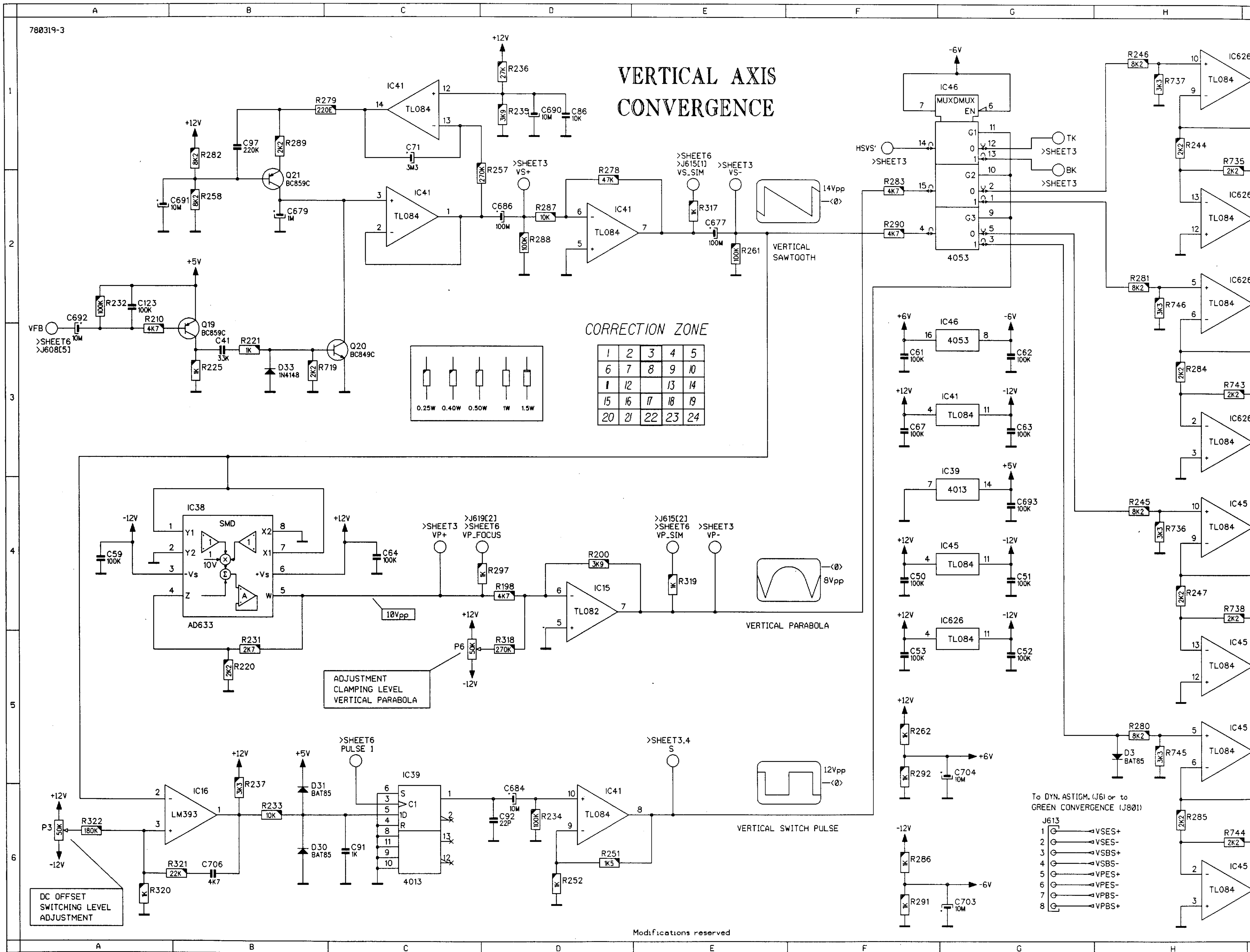
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C2	C 4	C649	C 2	IC623	G 4	R95	F 3	R266	B 4	R644	E 3
C3	C 4	C650	G 5	IC624	G 3	R96	F 3	R267	B 4	R645	E 3
C4	E 4	C651	B 5	IC625	C 2	R97	F 2	R268	B 4	R646	E 3
C5	E 3	C652	F 4	IC626	G 4	R98	F 2	R269	B 4	R647	E 3
C6	E 3	C654	B 2			R99	F 2	R270	B 4	R648	E 4
C7	B 5	C655	A 5	J	E 5	R00	B 2	R271	B 4	R649	C 5
C8	E 4	C656	B 2	J601	E 3	R02	C 5	R272	B 4	R650	C 4
C9	C 3	C659	G 4	J602	E 3	R03	F 5	R273	B 4	R651	C 4
C10	B 4	C660	B 3	J603	E 5	R04	F 5	R274	A 3	R652	E 4
C11	E 4	C661	F 3	J604	G 2	R05	B 5	R275	A 3	R653	C 4
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C14	B 5	C664	C 3	J607	F 2	R08	C 4	R278	A 4	R656	C 3
C15	C 4	C665	E 3	J608	F 5	R09	C 4	R279	A 5	R657	C 3
C16	B 5	C666	B 5	J609	F 3	R10	F 4	R280	A 4	R658	C 3
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C18	C 3	C669	C 2	J611	F 3	R12	B 2	R282	A 5	R660	C 2
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C27	G 5	C681	B 3	J620	F 4	R22	B 3	R291	A 4	R669	C 3
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C30	C 3	C686	C 5			R25	B 2	R294	F 4	R672	C 2
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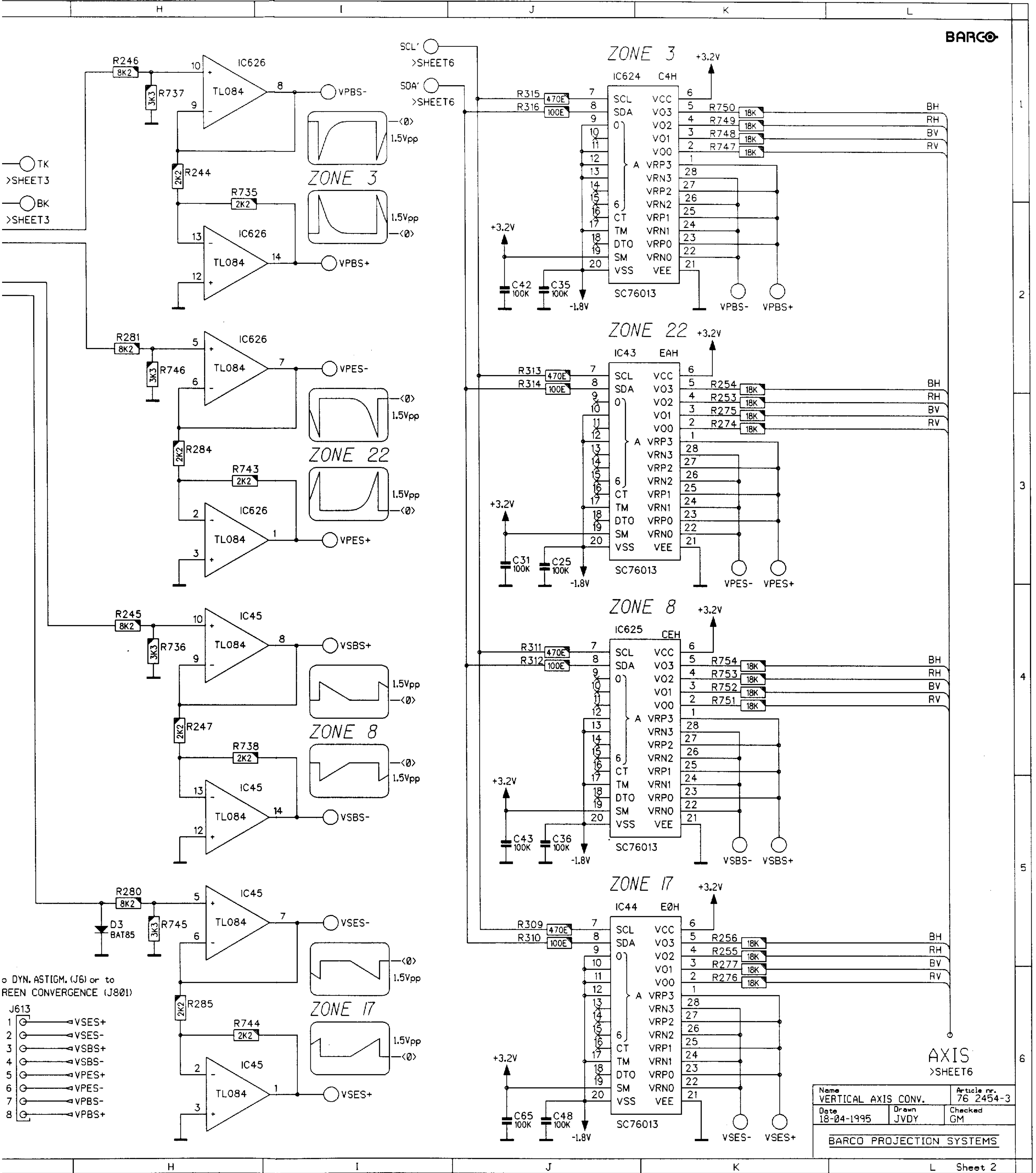




Name		Article nr.	
HORIZONTAL AXIS CONV.		76 2454-3	
Date	Drawn	Checked	
18-04-1995	JVDY	GM	

BARCO PROJECTION SYSTEMS

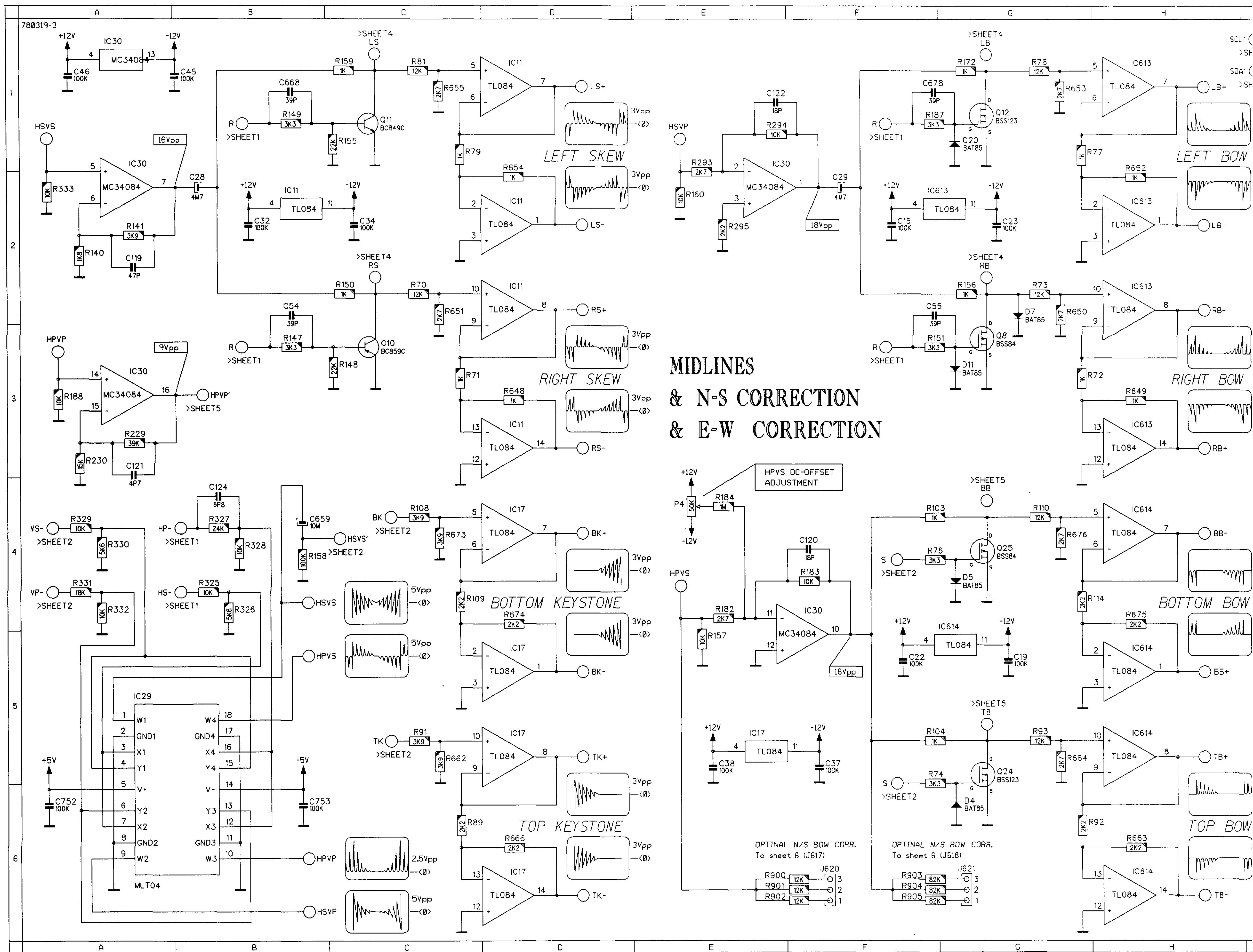


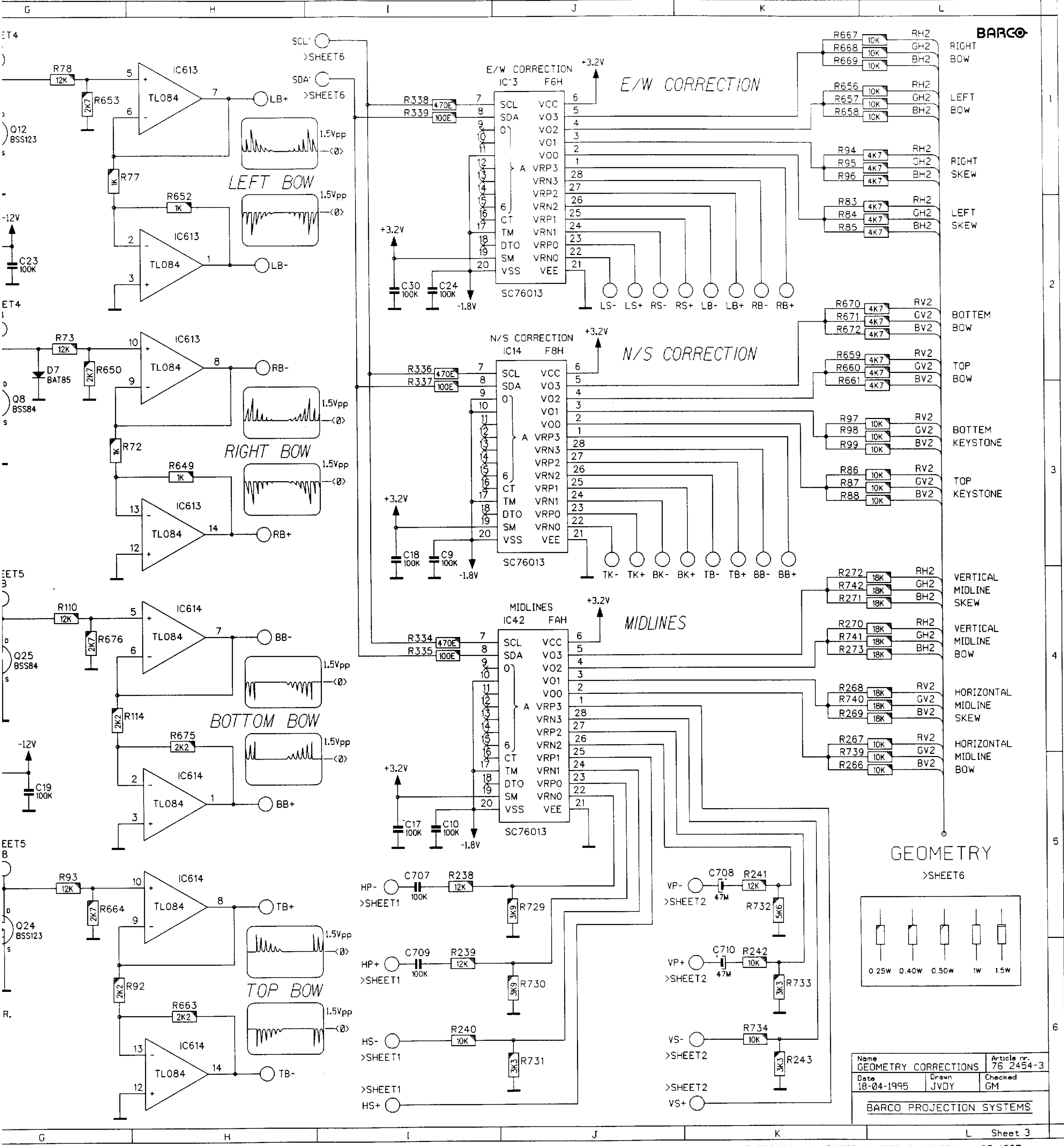


o DYN. ASTIGM. (J6) or to
REEN CONVERGENCE (J801)

- J613
- 1 o VSES+
 - 2 o VSES-
 - 3 o VSBS+
 - 4 o VSBS-
 - 5 o VPES+
 - 6 o VPES-
 - 7 o VPBS+
 - 8 o VPBS-

Name VERTICAL AXIS CONV.		Article nr. 76 2454-3	
Date 18-04-1995	Drawn JVDY	Checked GM	
BARCO PROJECTION SYSTEMS			

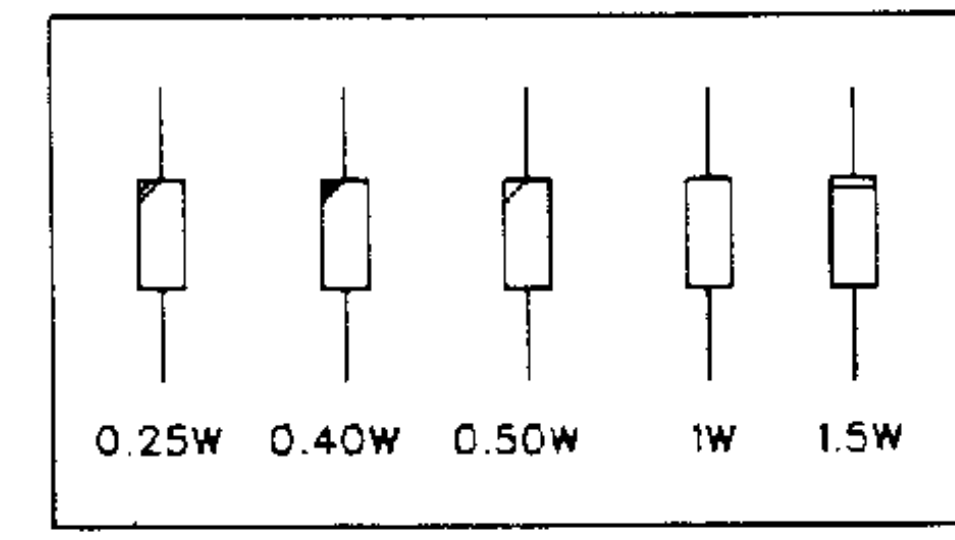




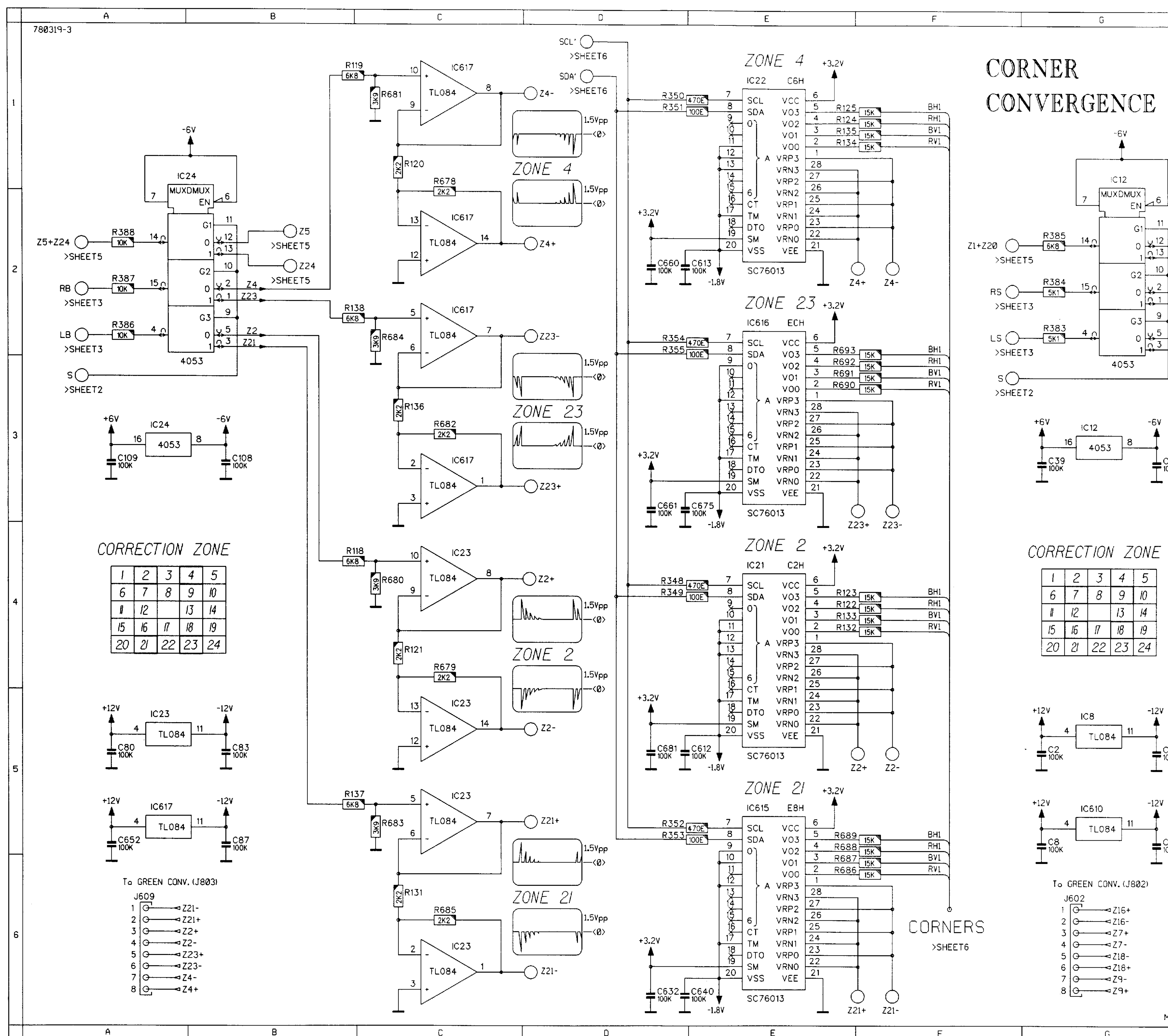
BARCO

GEOMETRY

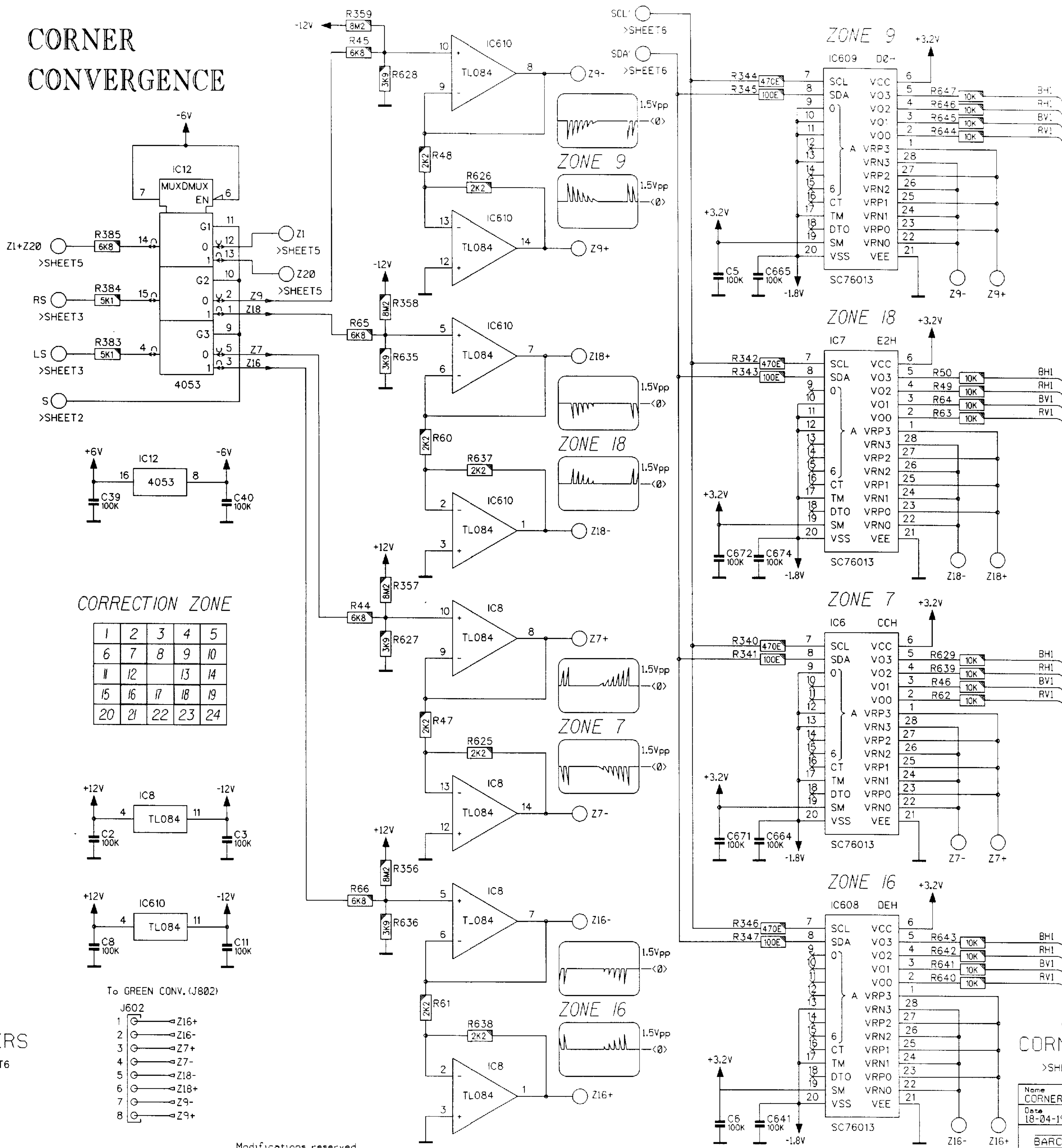
>SHEET6



Name GEOMETRY CORRECTIONS		Article nr. 76 2454-3
Date 18-04-1995	Drawn JVDY	Checked GM
BARCO PROJECTION SYSTEMS		



CORNER CONVERGENCE



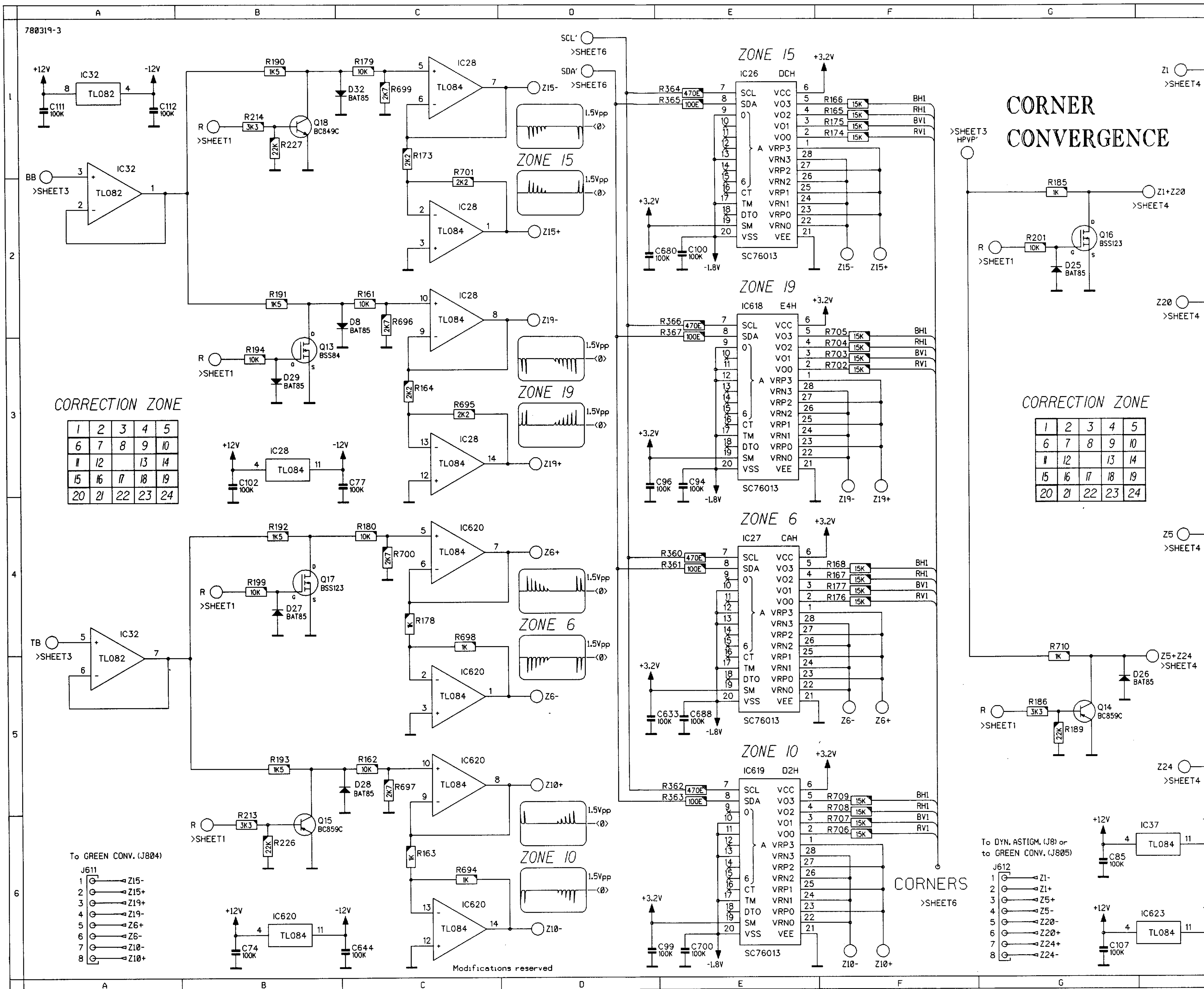
ERS
ET6

Modifications reserved

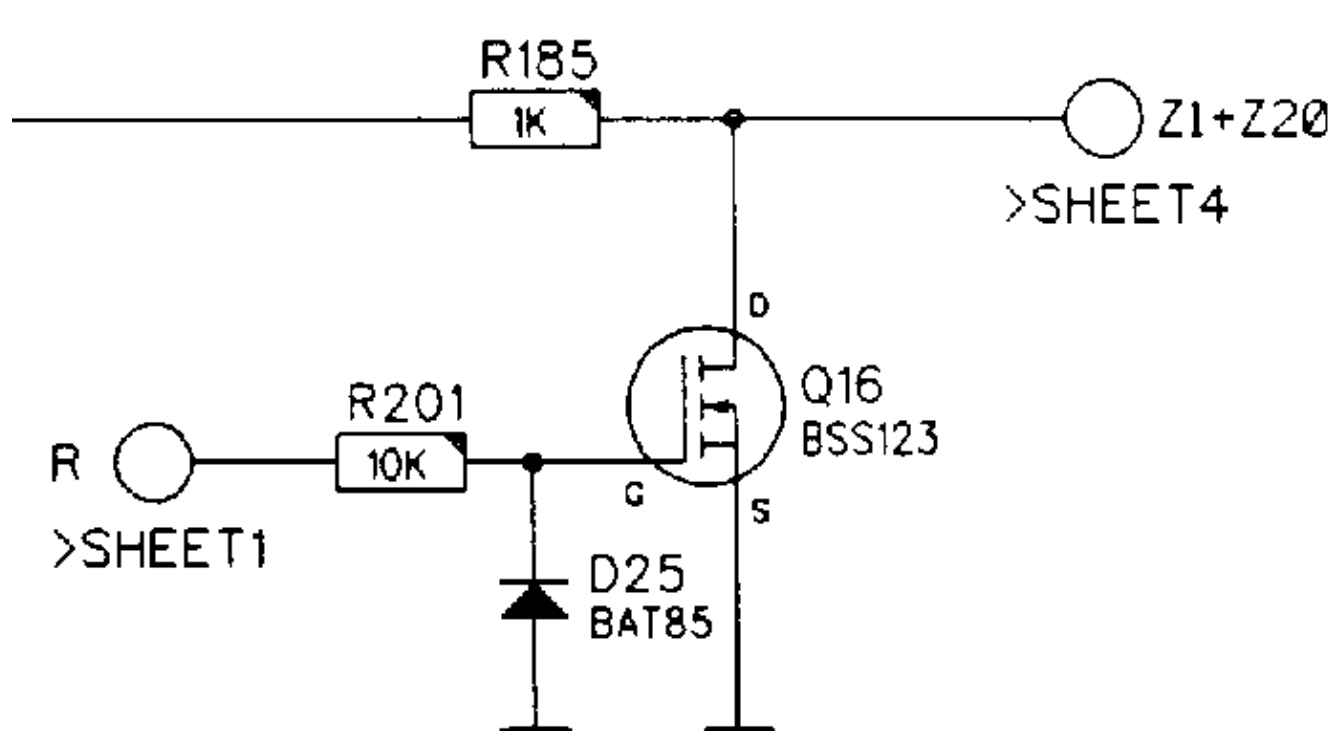
BARCO

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>SHEET6

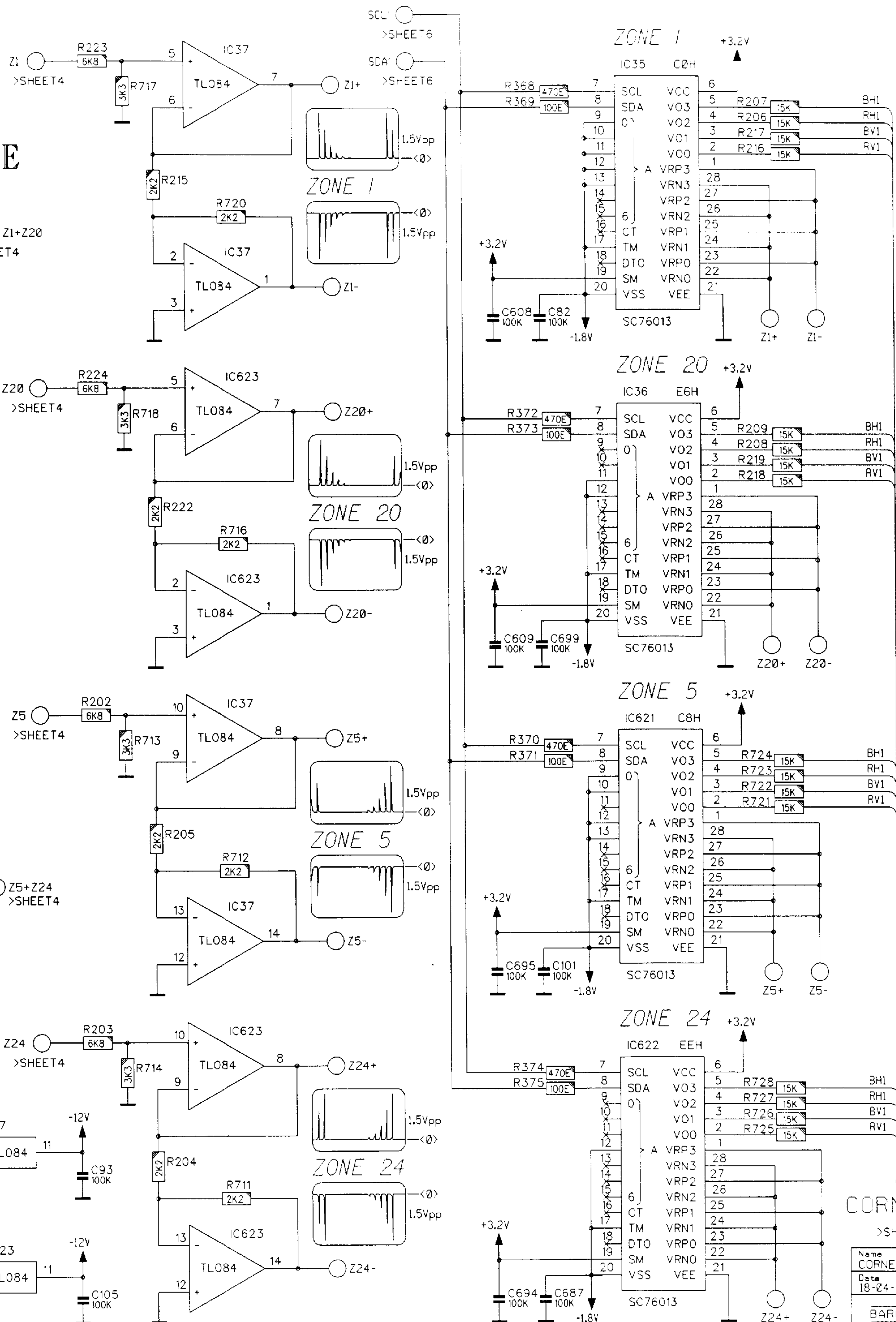
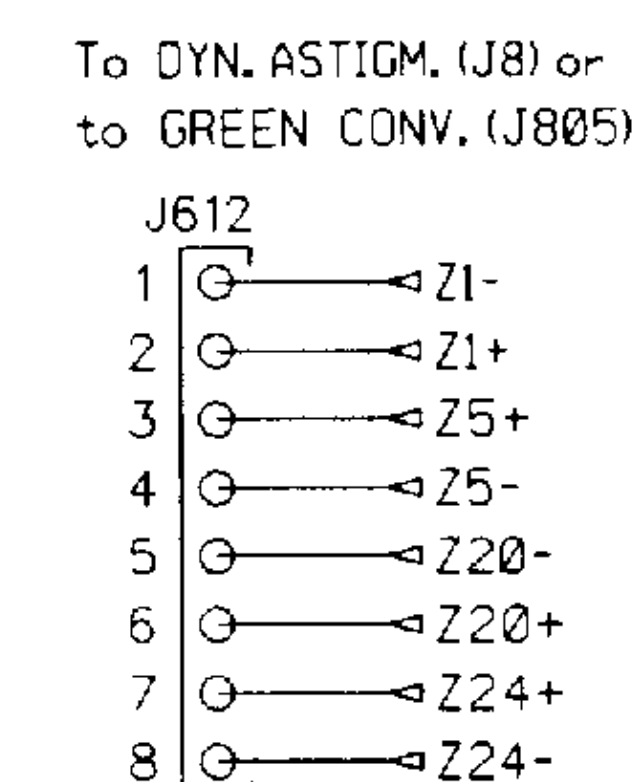
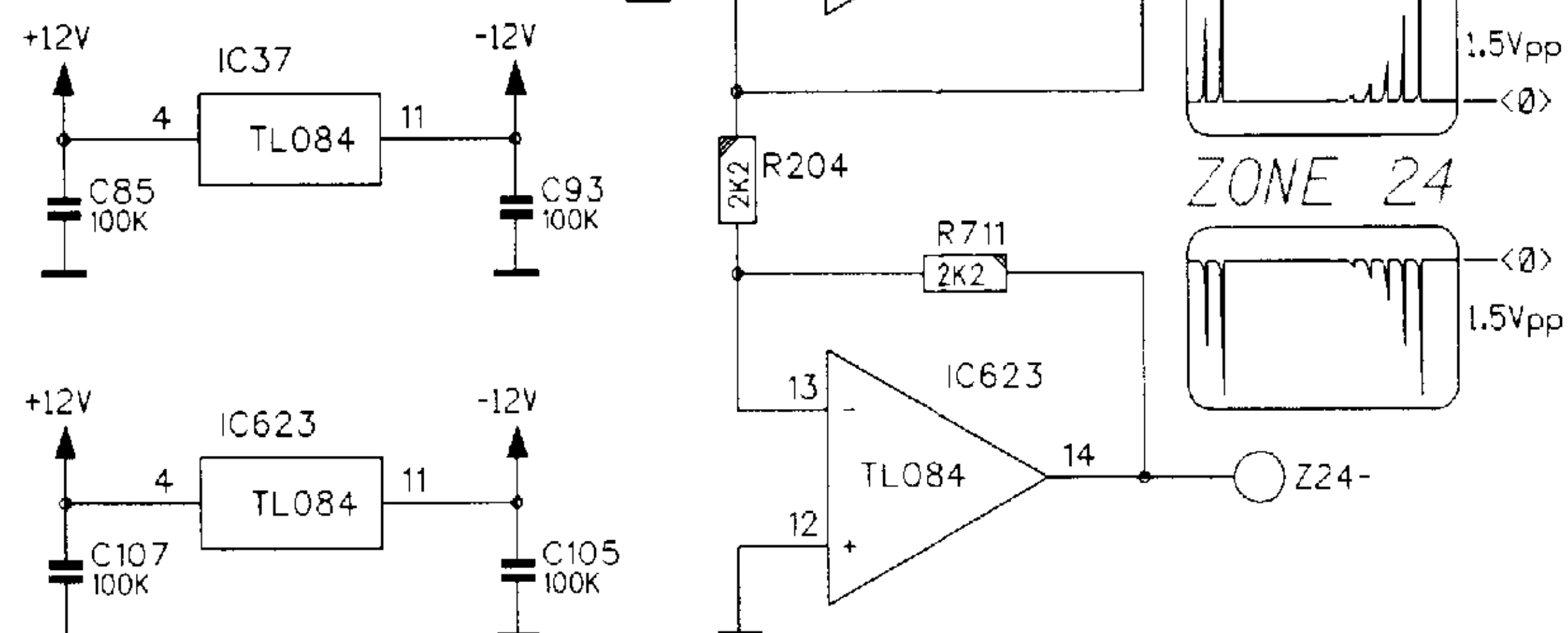
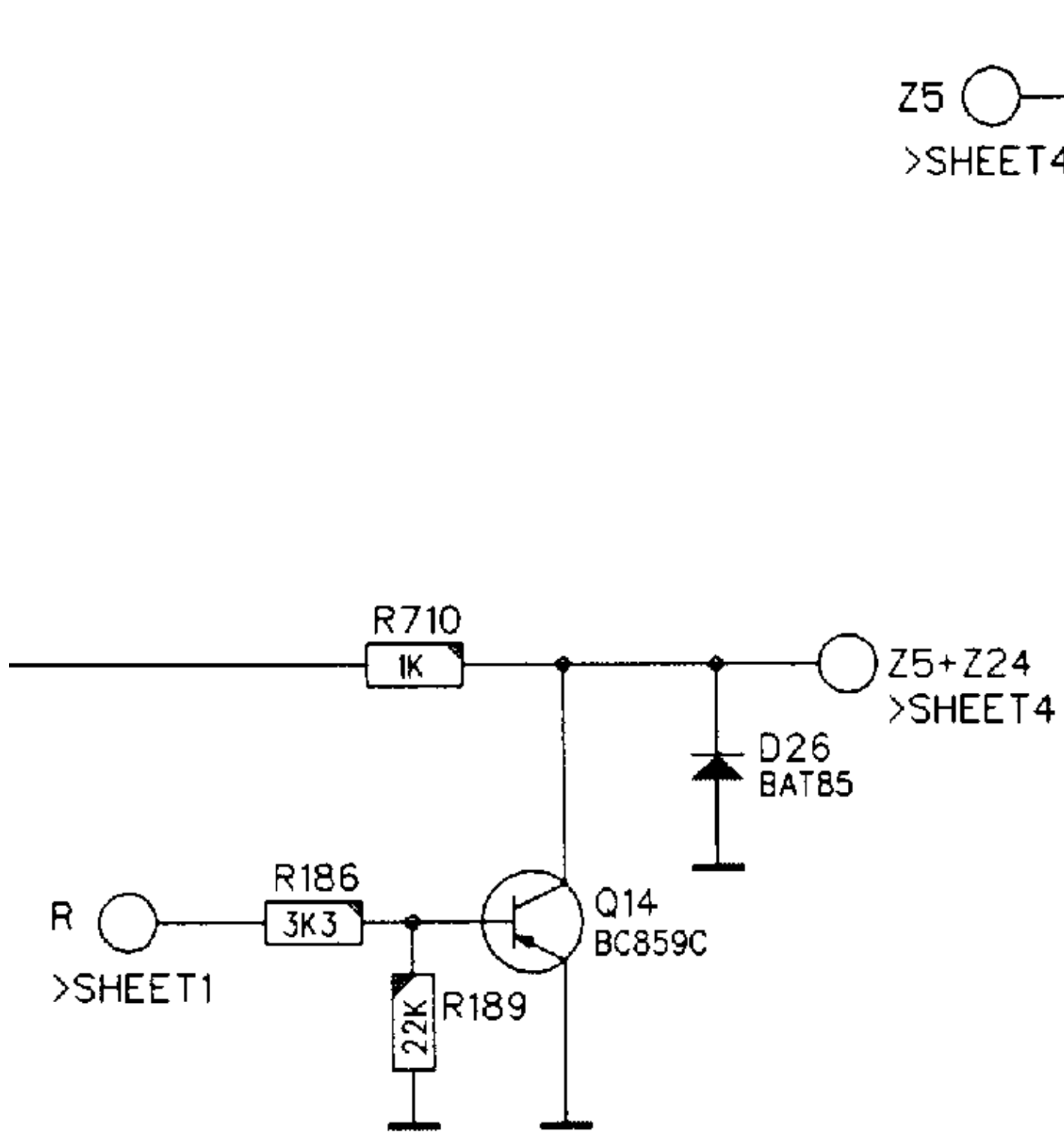
Name CORNER CONVERGENCE		Article nr. 76 2425-3	
Date 18-04-1995	Drawn JVDY	Checked GM	
BARCO PROJECTION SYSTEMS			



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5'
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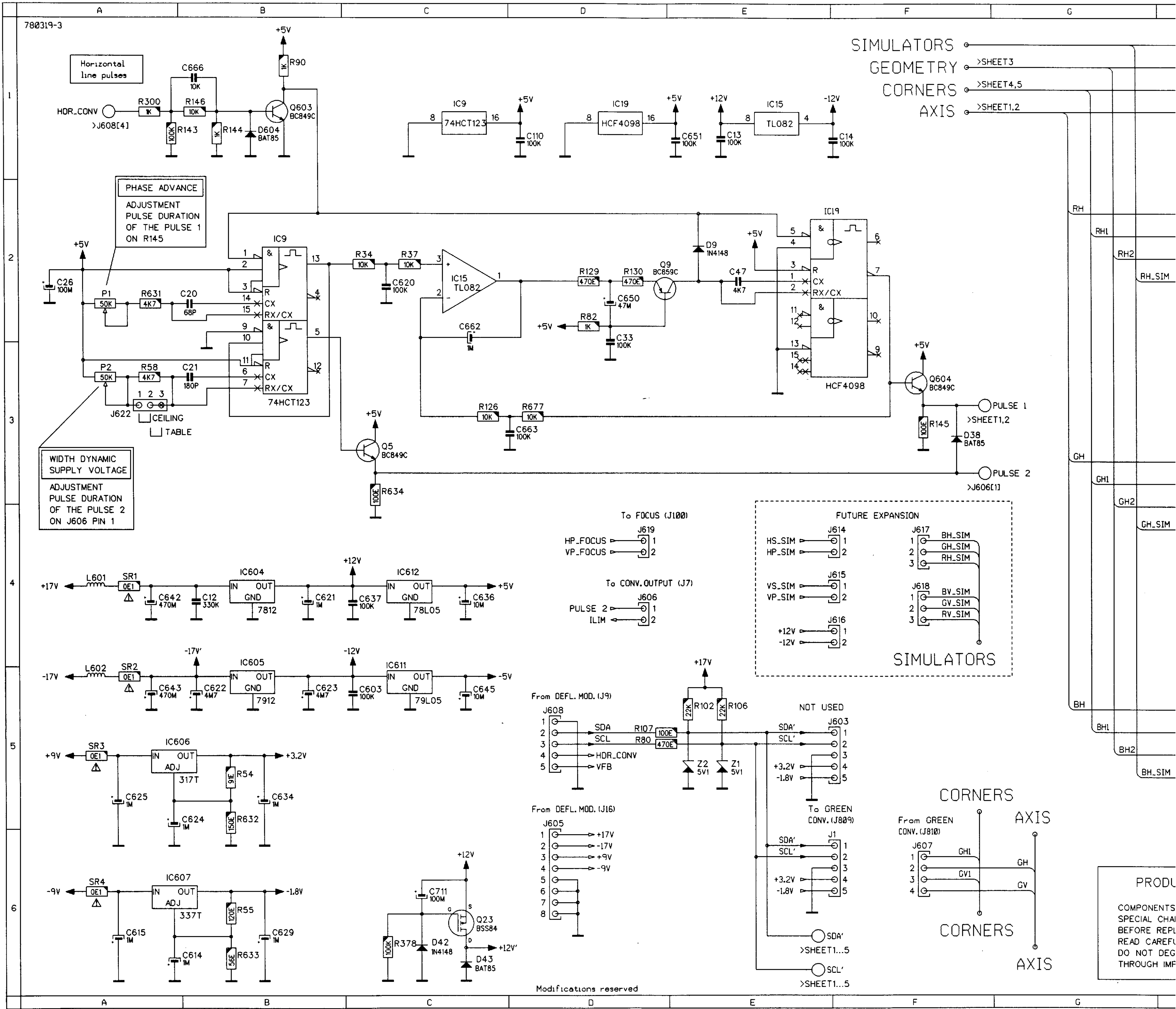


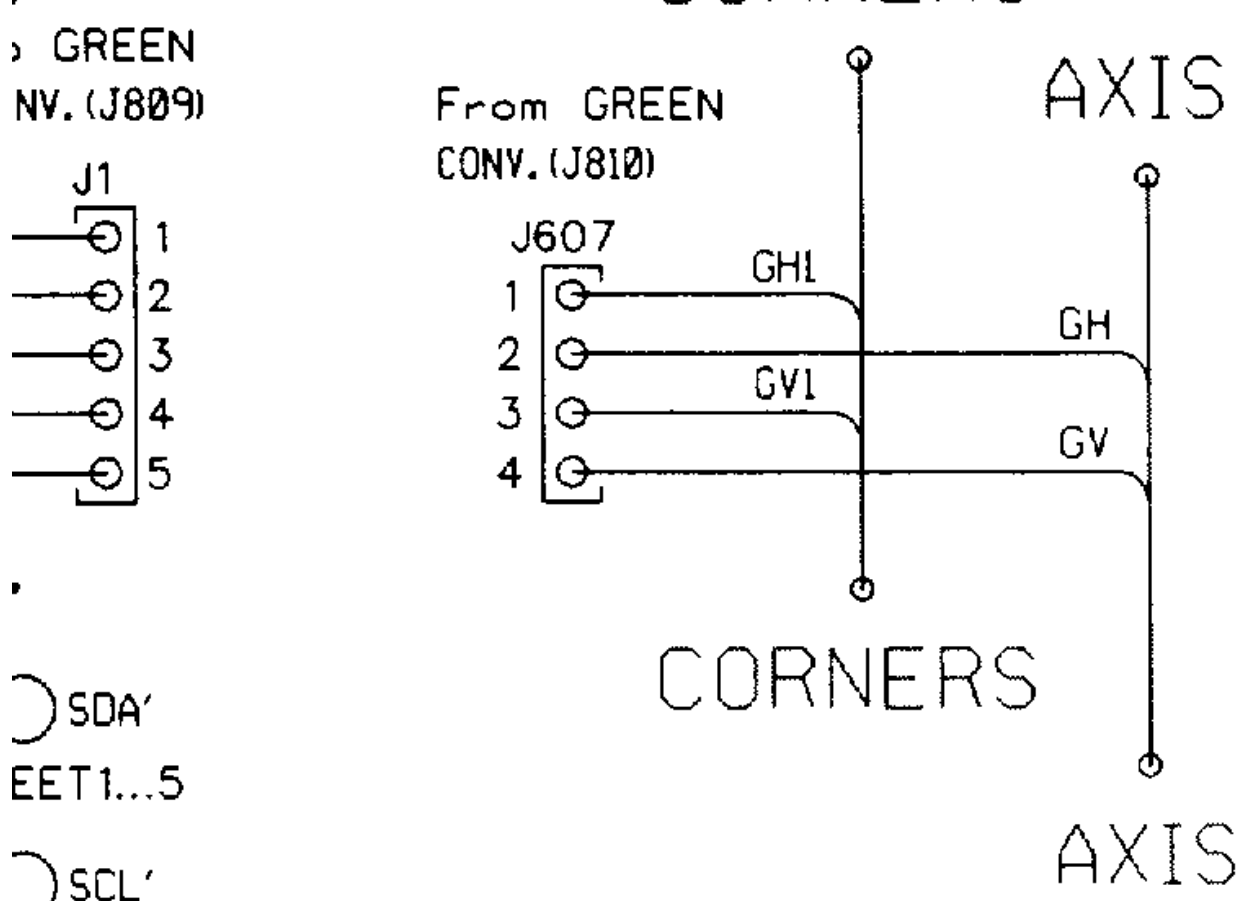
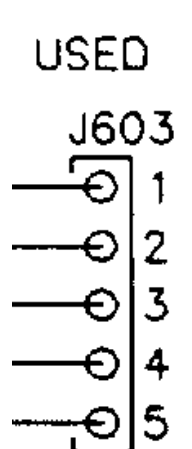
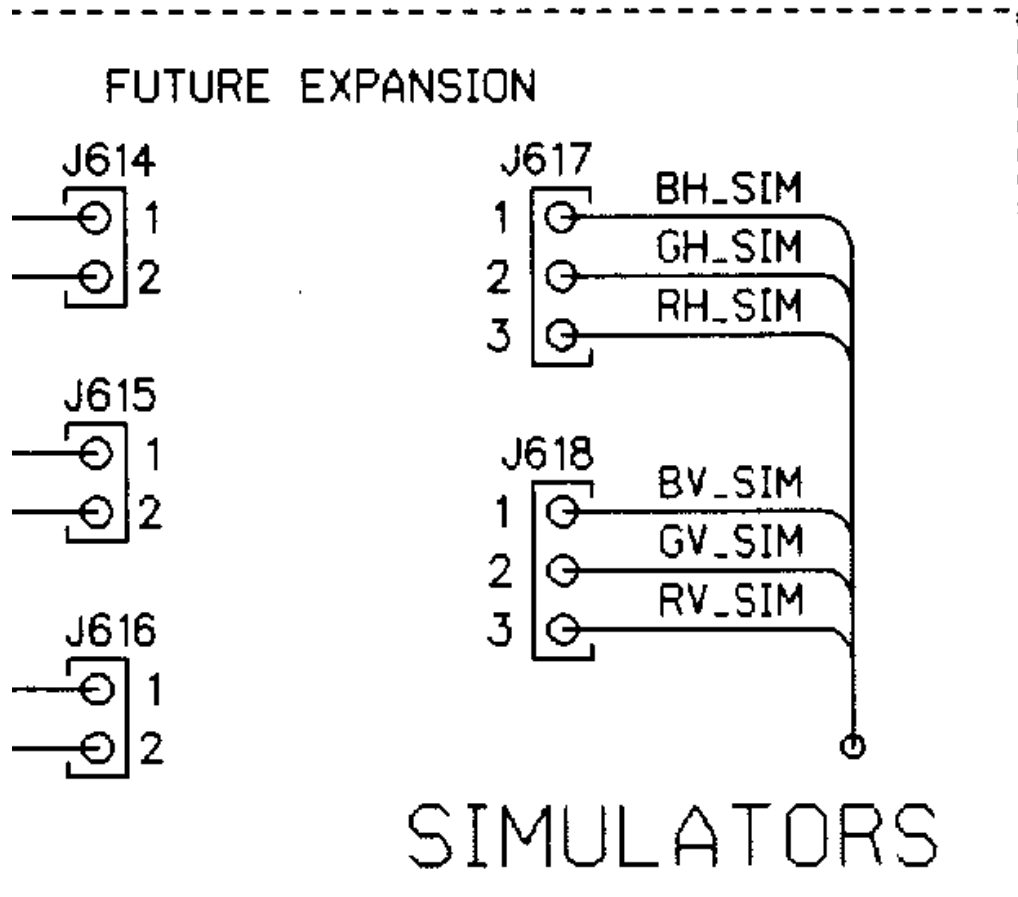
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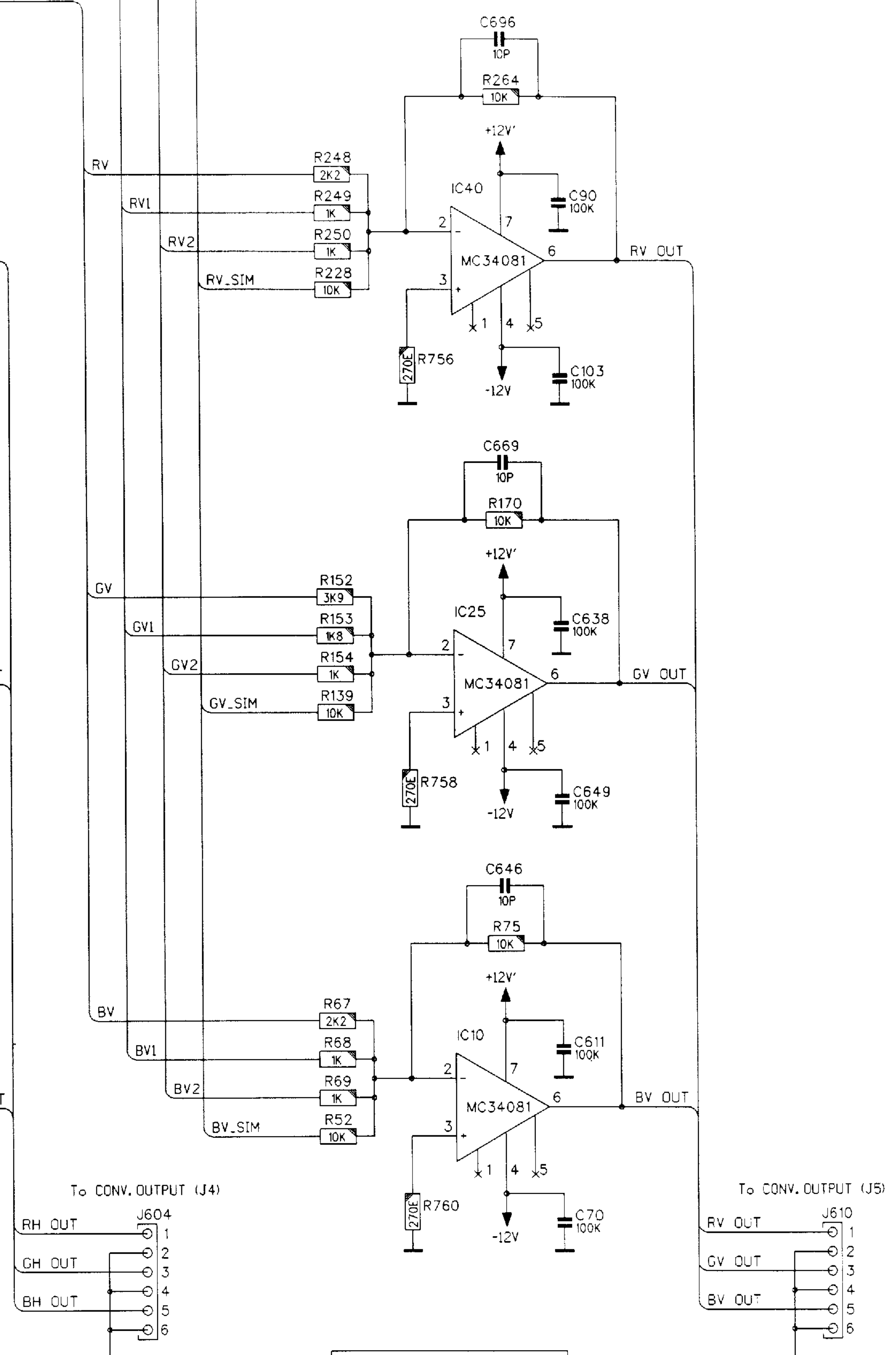
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Name CORNER CONVERGENCE		Article no. 76 2454-3
Date 18-04-1995	Drawn JVDY	Checked GM
BARCO PROJECTION SYSTEMS		





COMPONENTS MARKED WITH * OR Δ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS TO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.



Name SUMMING AMPLIFIERS		Article no. 76 2454-3
Date 18-04-1995	Drawn JVOY	Checked GM
BARCO PROJECTION SYSTEMS		

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Convergence module (DRIVER)

GREEN Convergence module

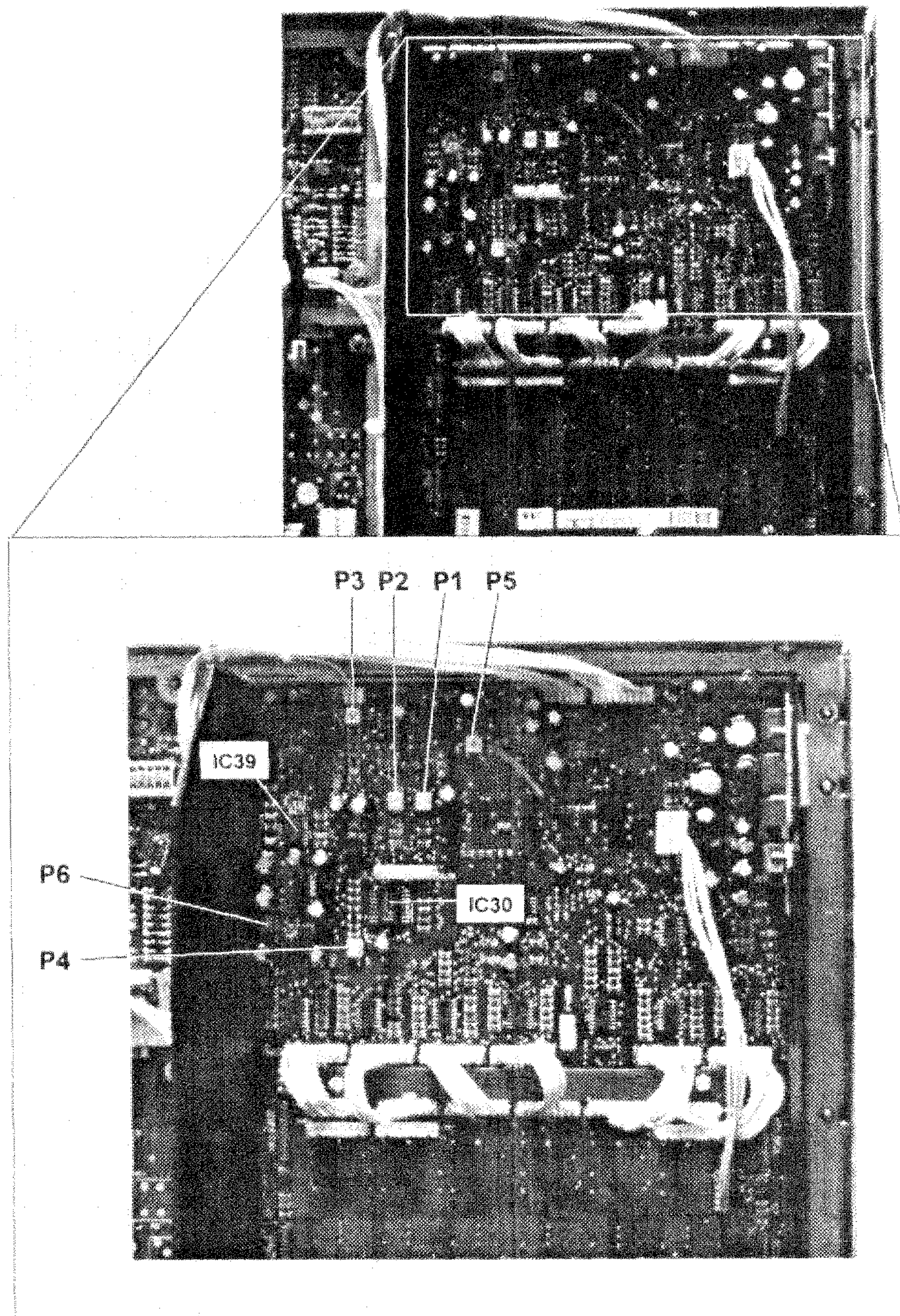
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Adjustment procedure

Adjustments

Location of adjustment controls



Preparation

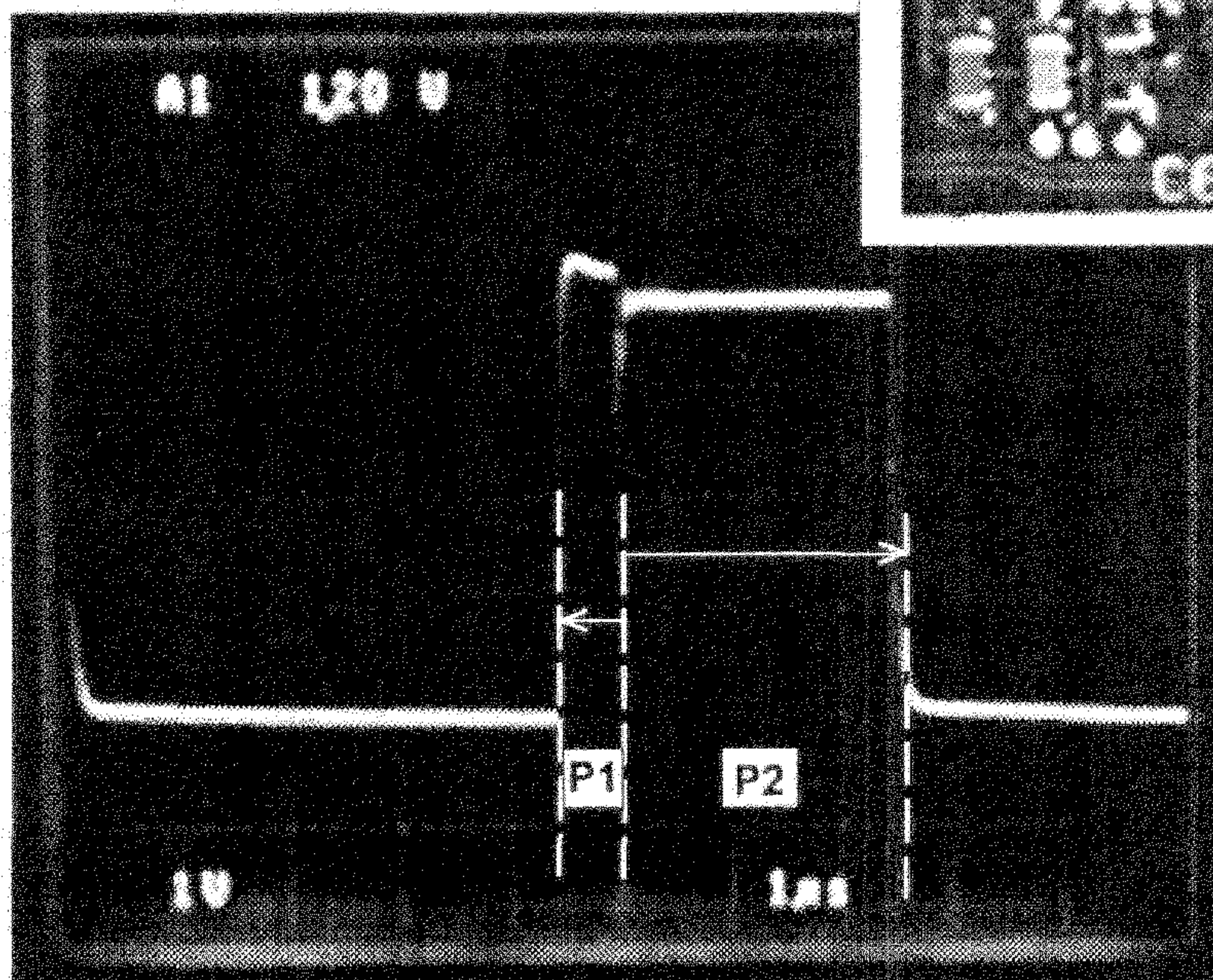
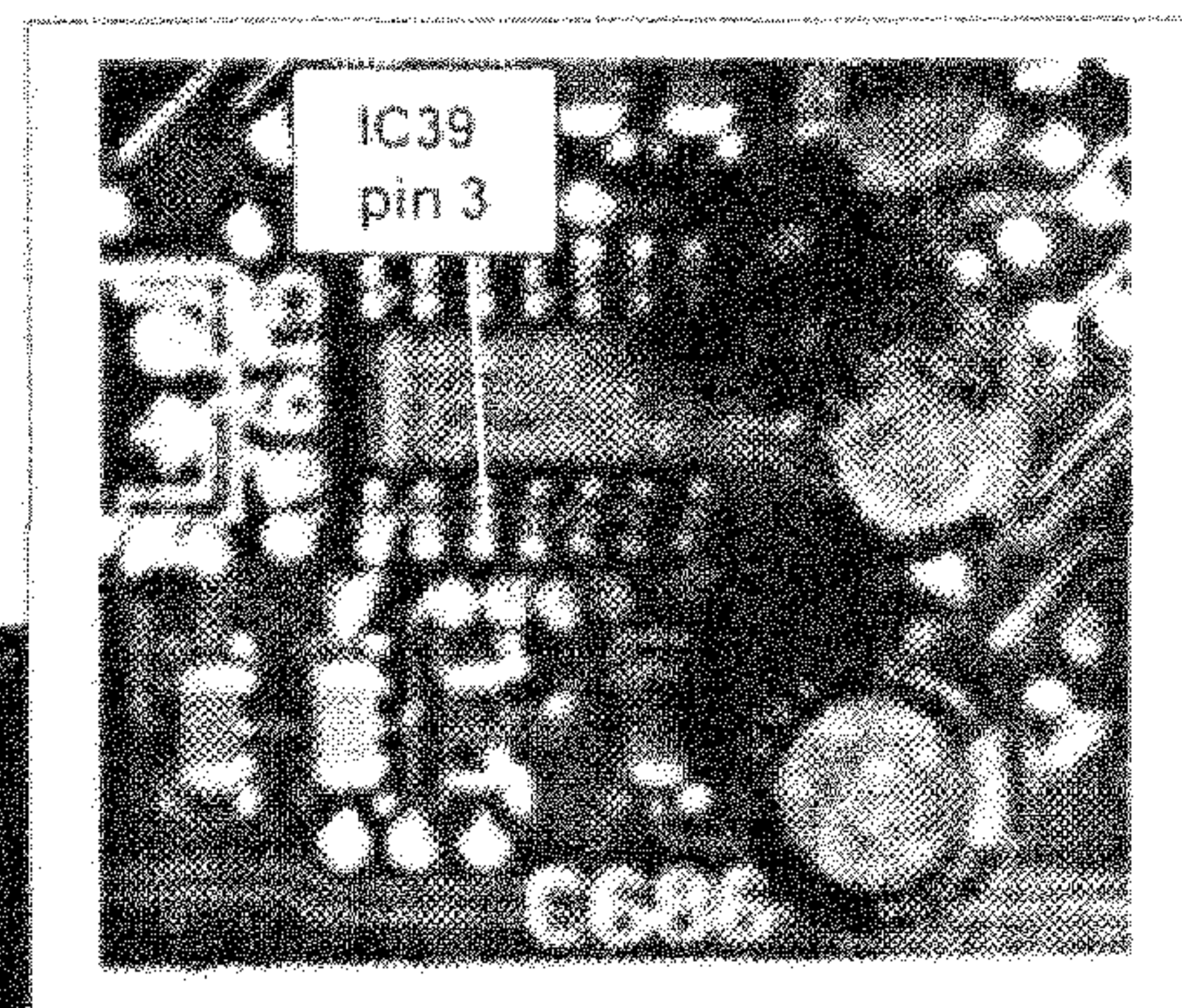
IMPORTANT

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

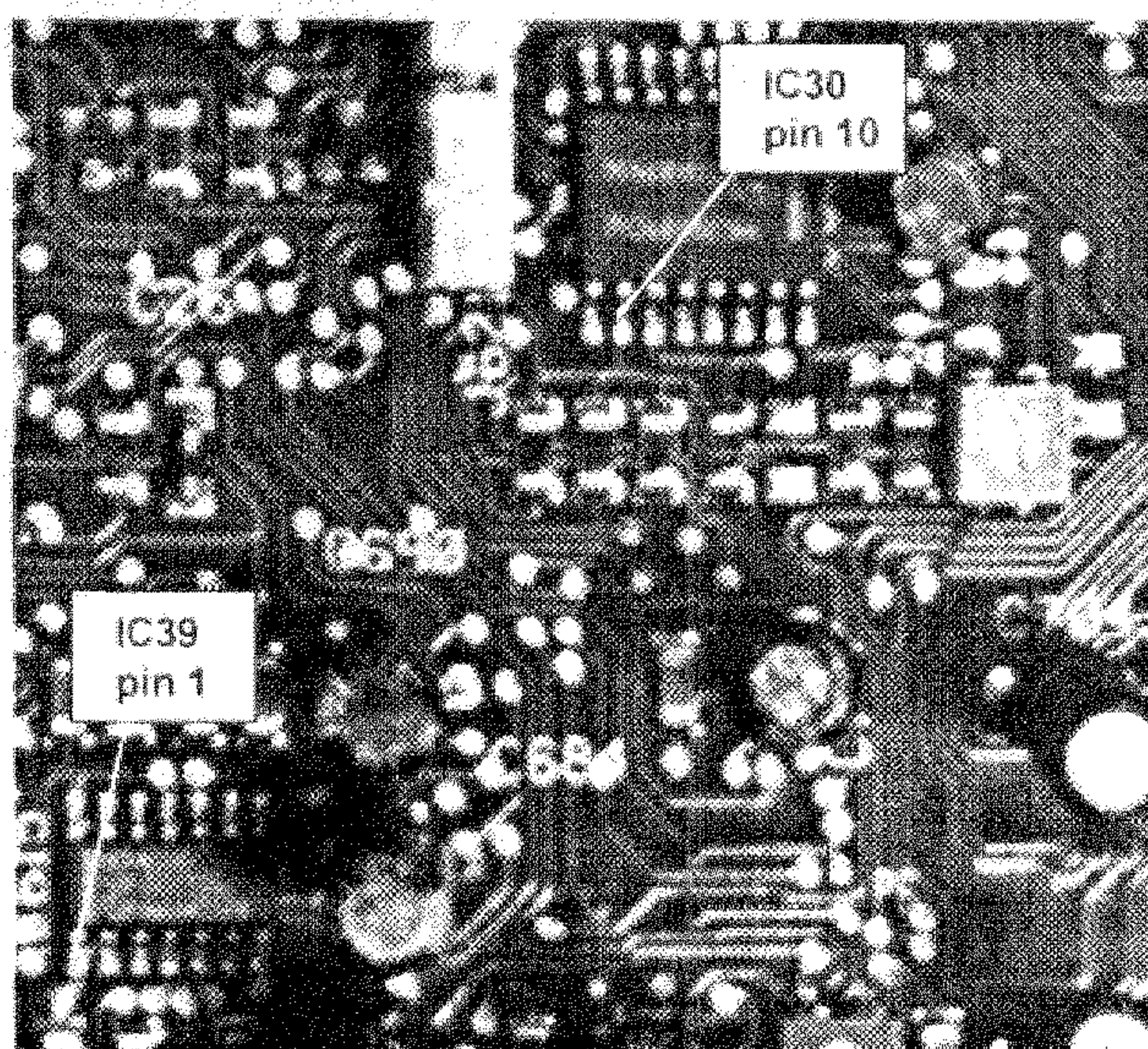
- Connect an oscilloscope to the pin 3 of the IC39.
- Adjust the potentiometer P1 for a pulse 1 duration of 0.5us.
- Adjust the potentiometer P2 for a pulse 2 duration of 2.5us.



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

R762454

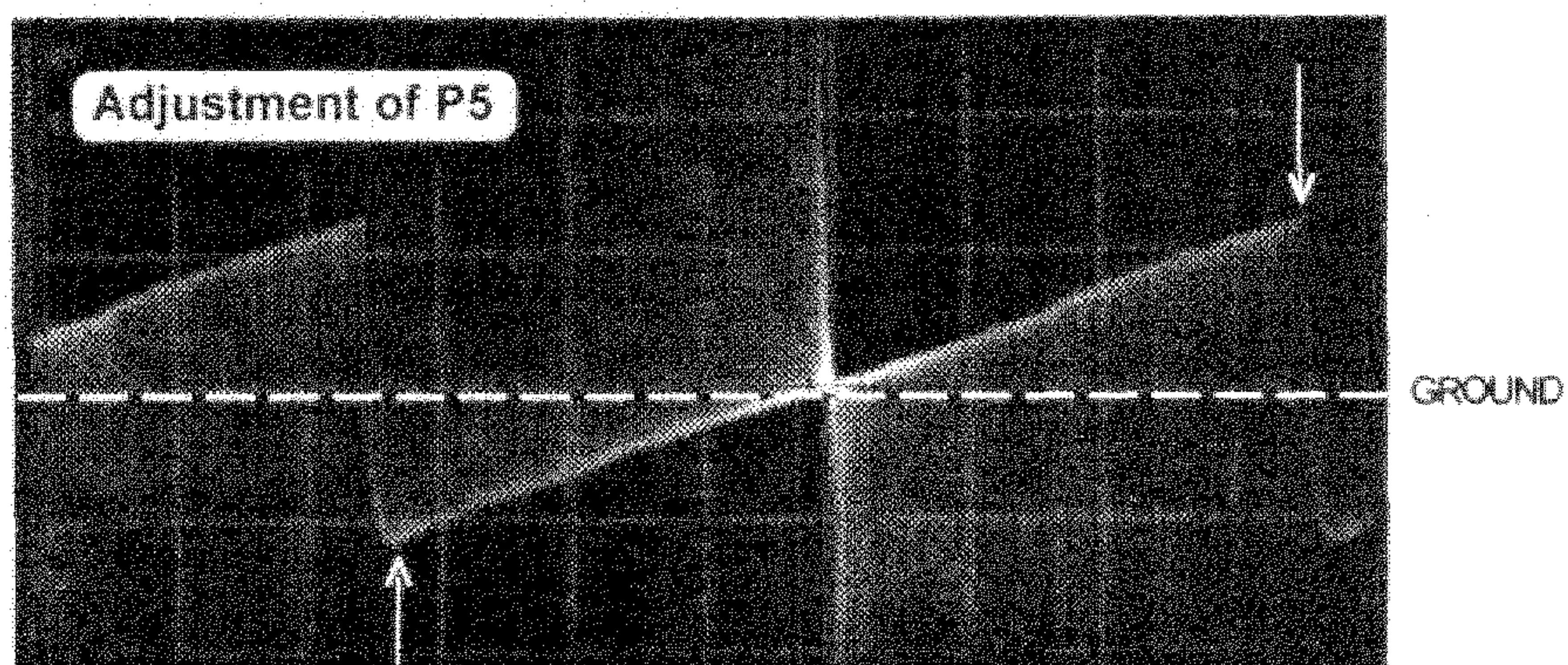
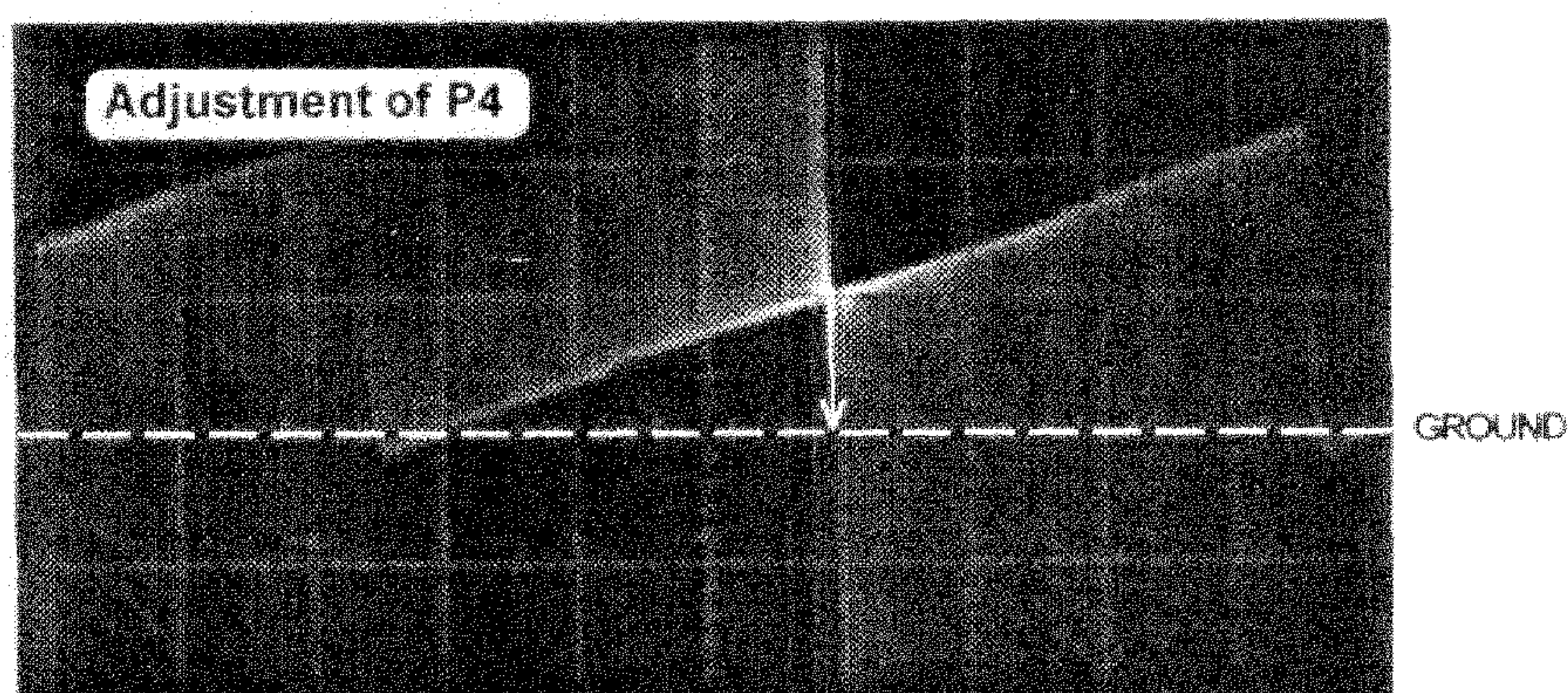
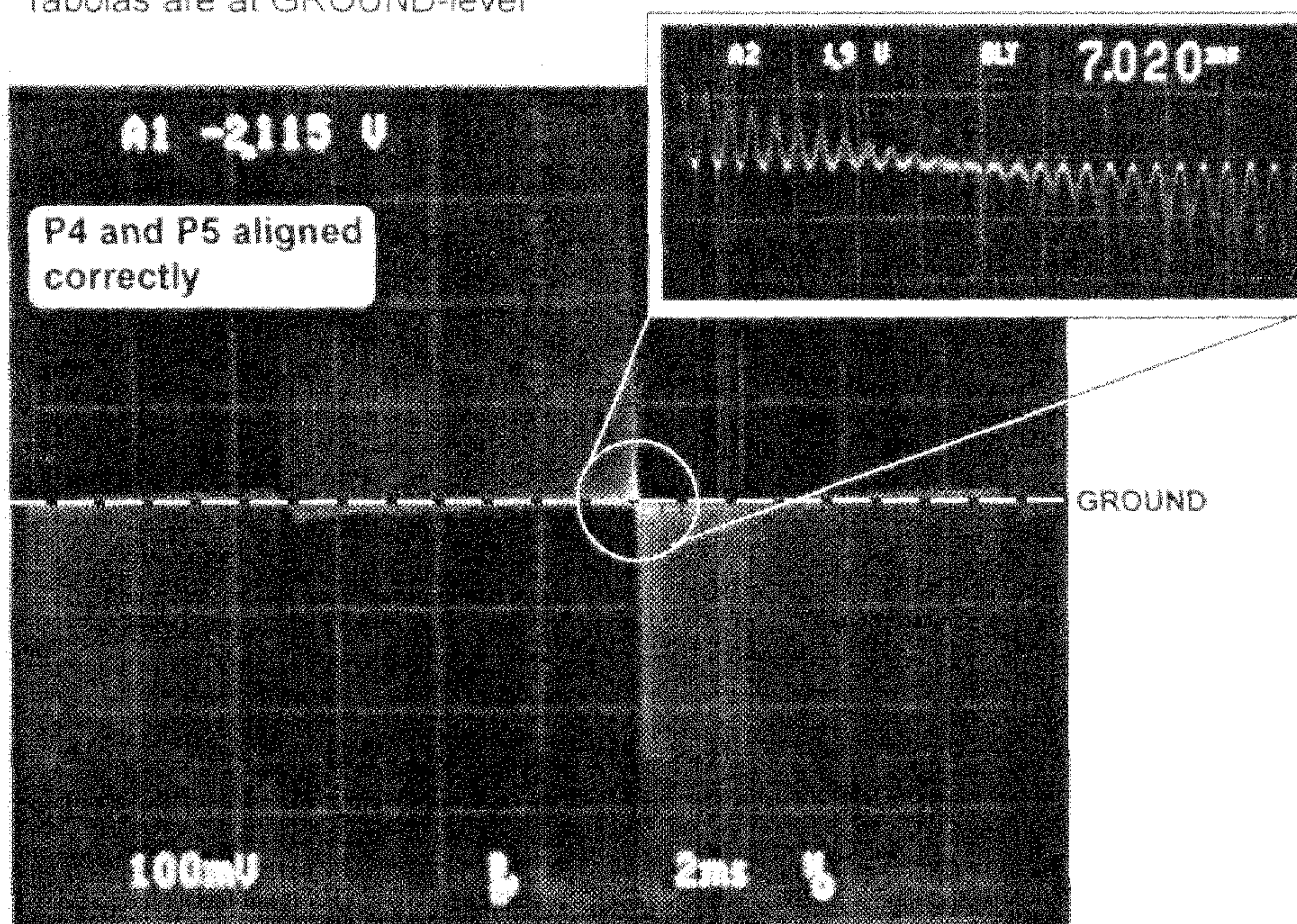
R7625128

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



Convergence module (DRIVER)

GREEN Convergence module

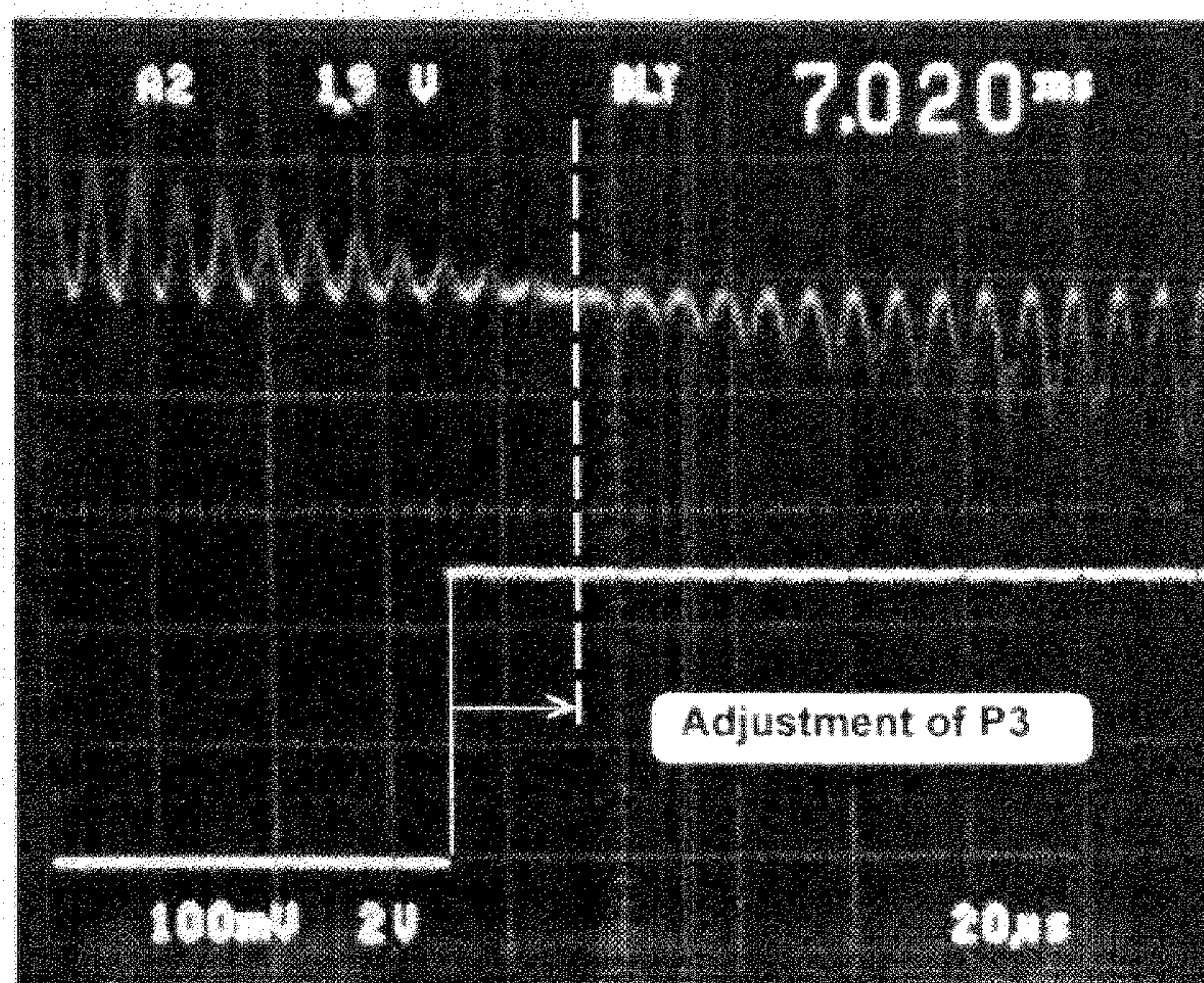
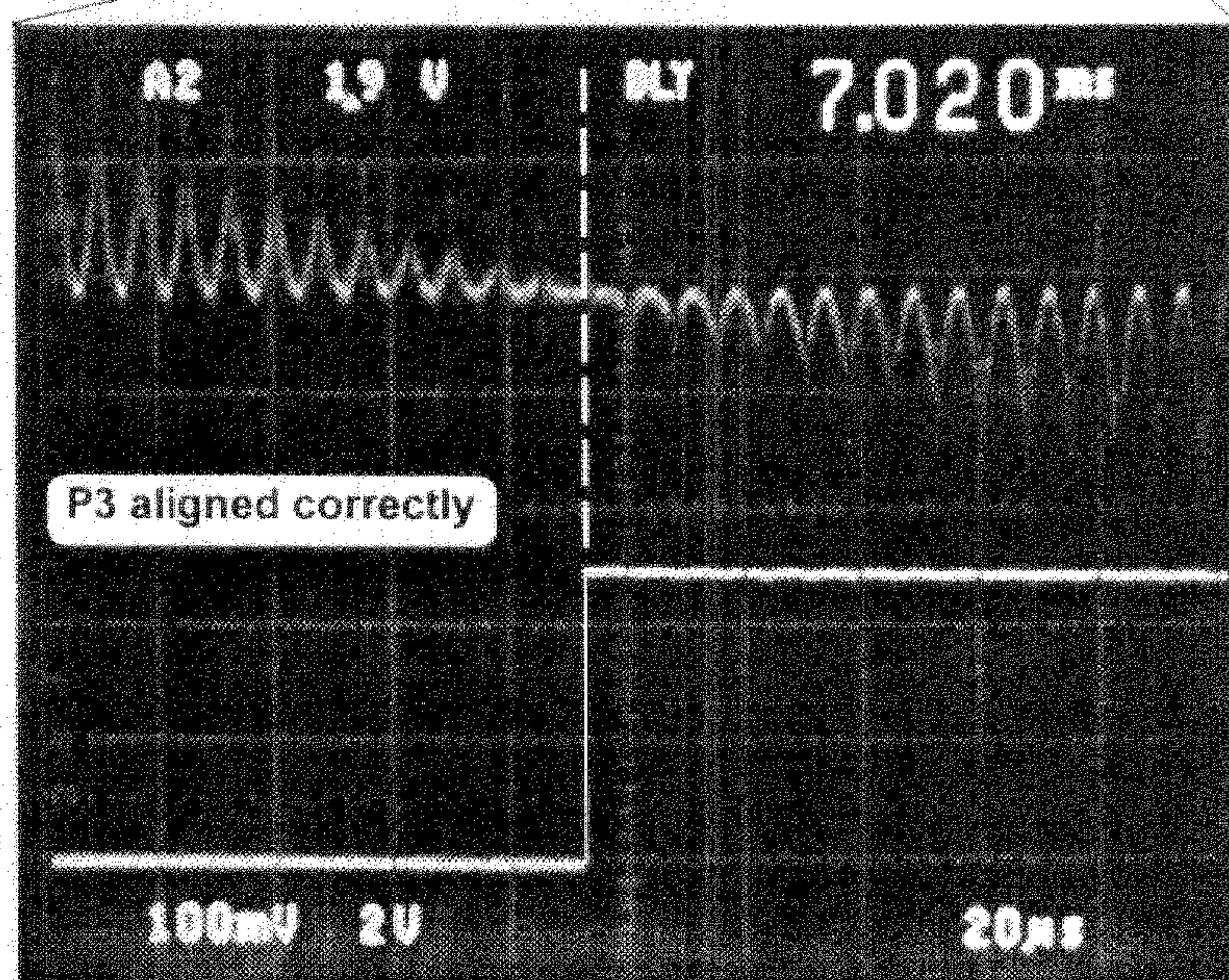
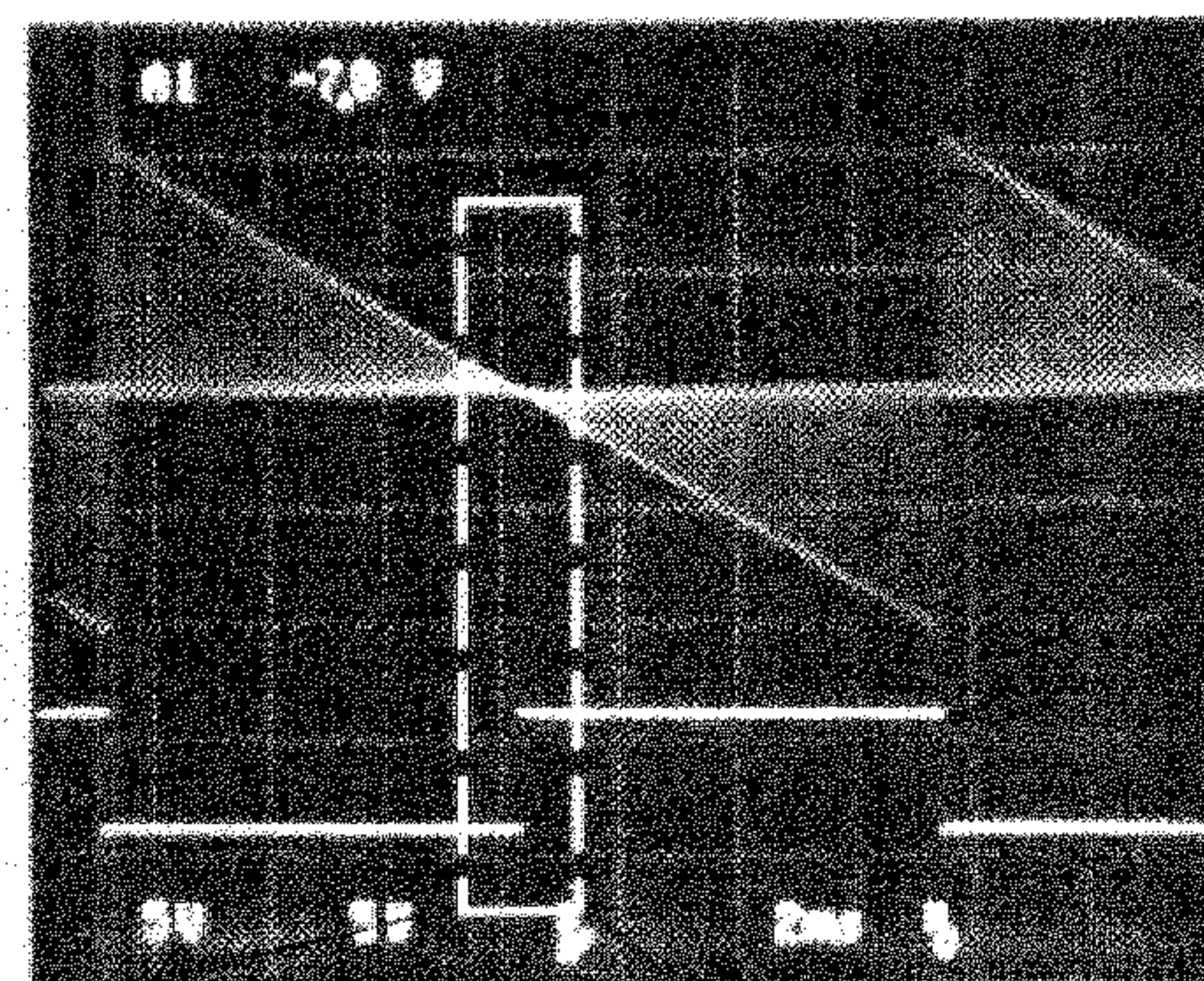
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Adjustment of the potentiometers P3: DC Offset switching level

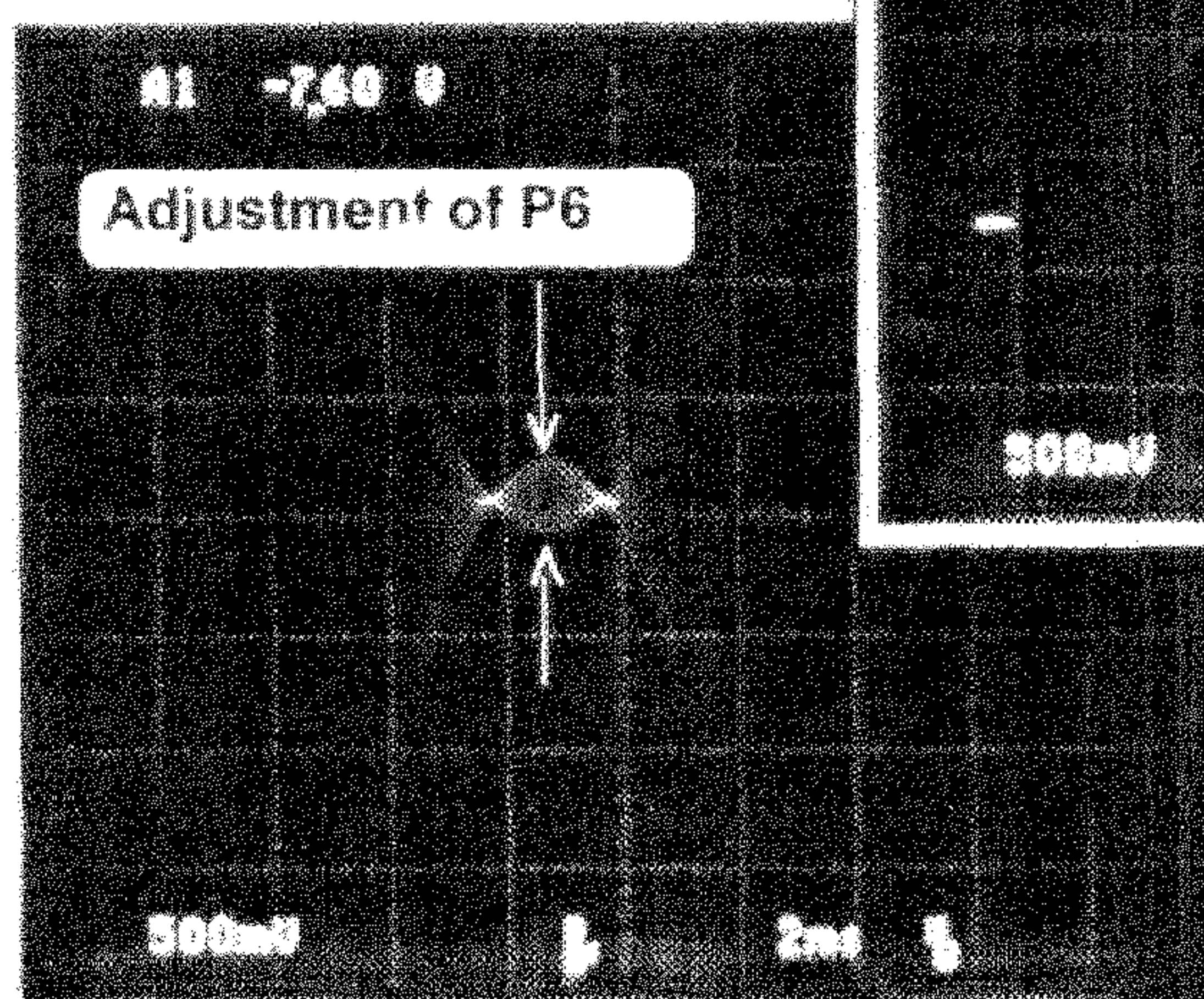
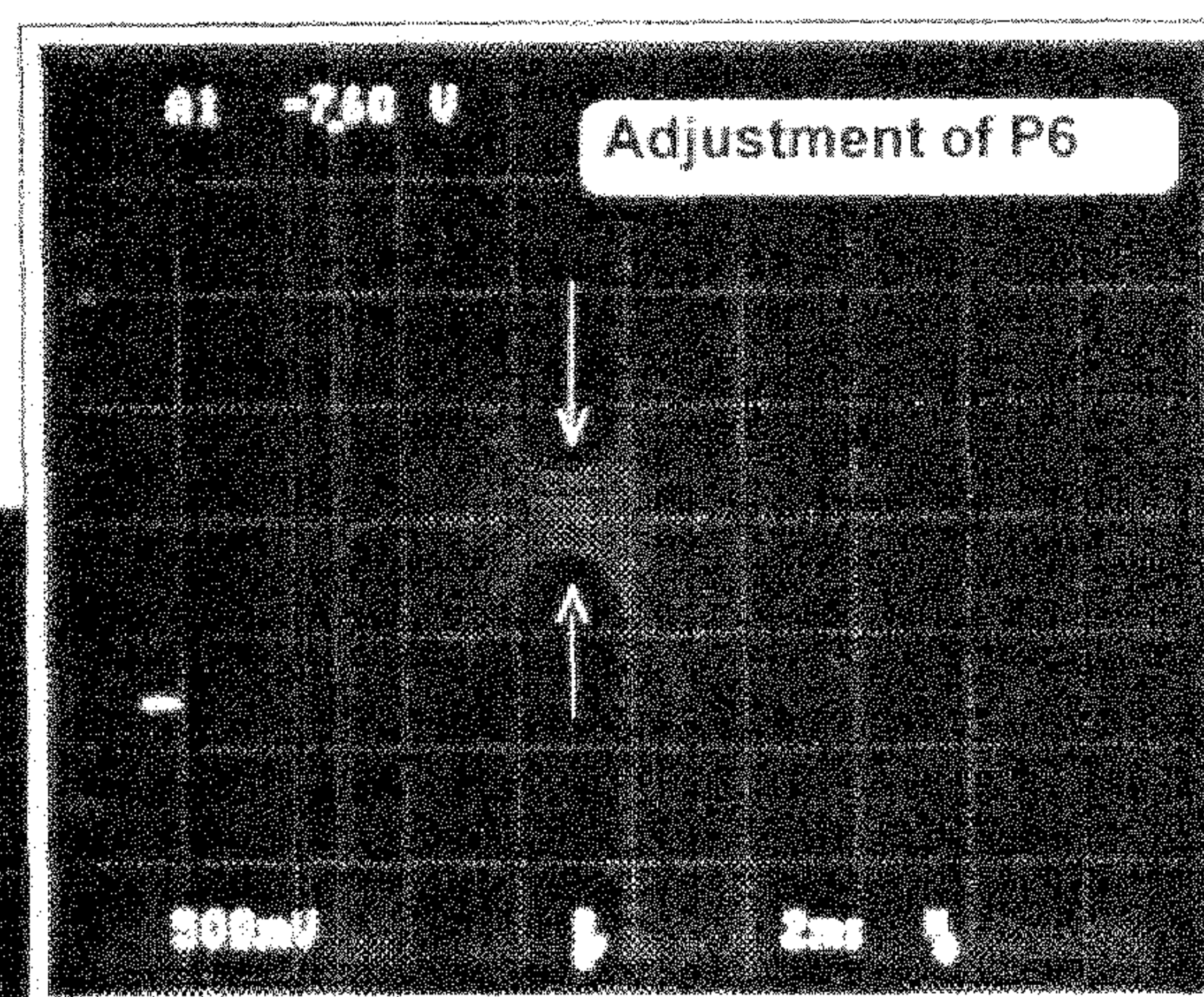
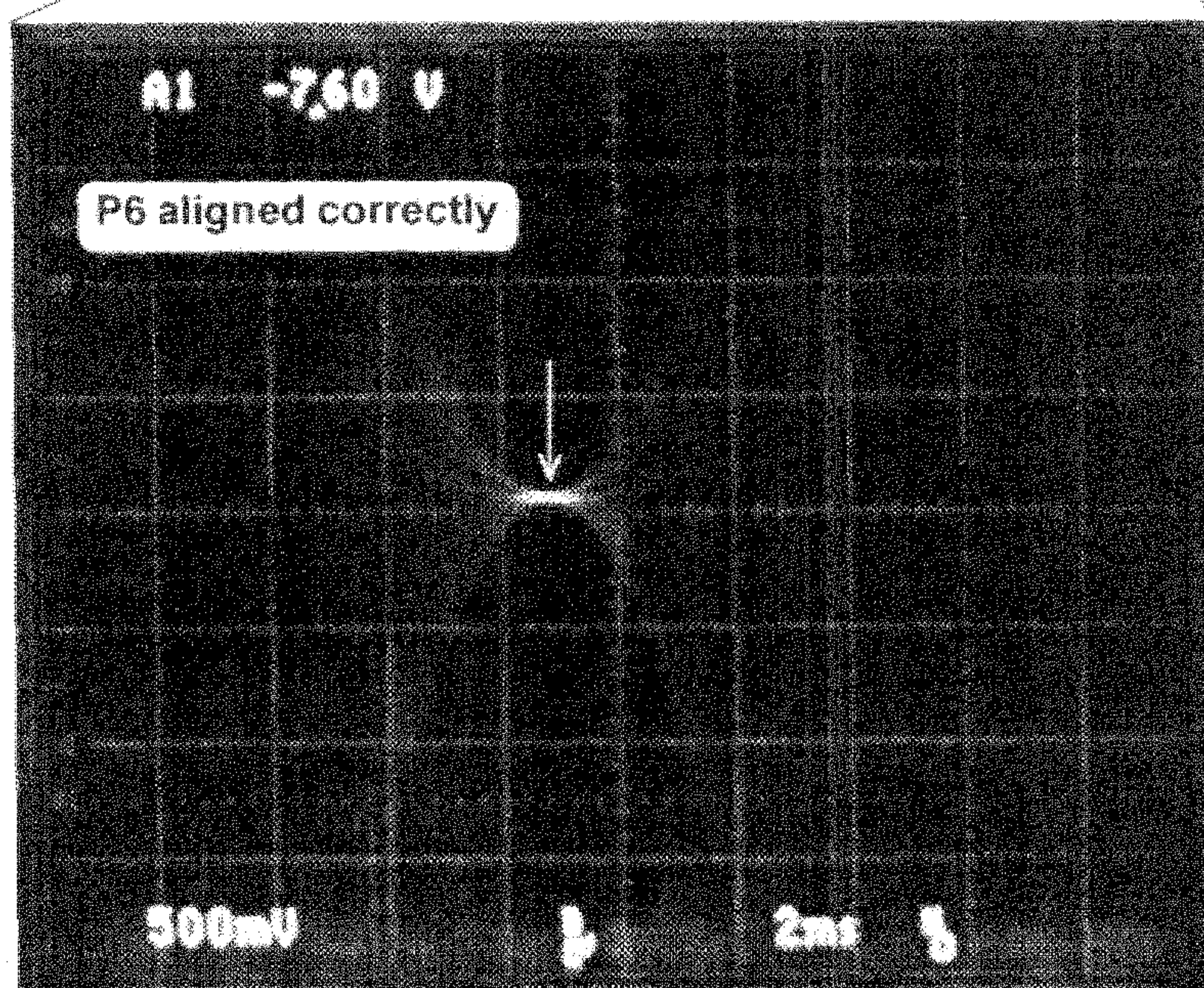
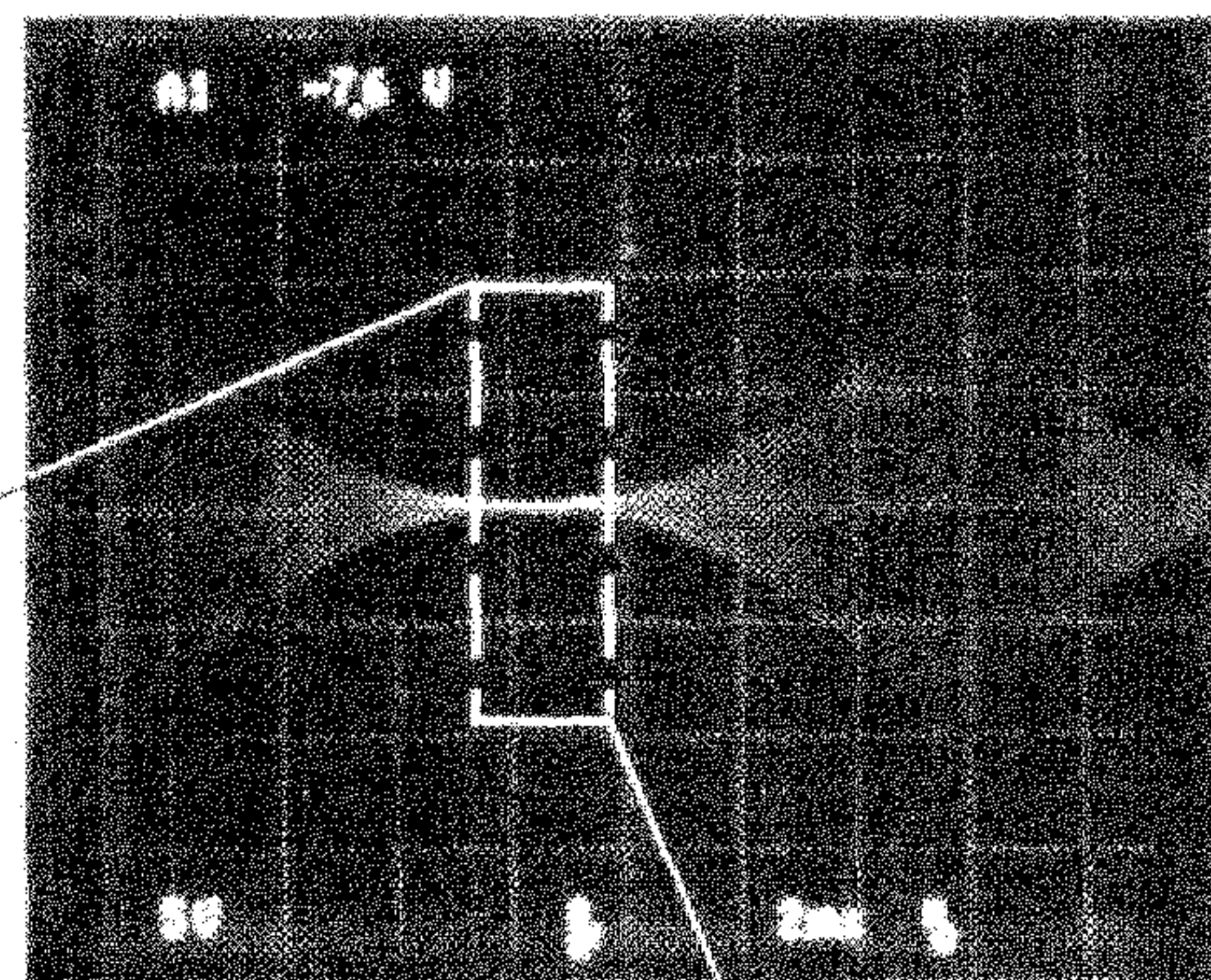
Attention: be sure that the input signal for adjustment operates on the highest used line frequency.

- 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 R762454

Introduction.

The Surface Mounted Device (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 synchronize the sawtooth generator and the dynamic boosting up of the power supply. The sawtooth waveforms are clamped to a (ground) fixed level during one part of the scanning (left/right or top/bottom) and adjusted in amplitude for linear correction on the scan per color. Multipliers produce parabolic waveforms which undergo the same functions for non linear corrections. A combination of the clamped signals, and a modulation on either a sawtooth or parabola is what is needed for the coner convergence. All the waveforms for one color are summed with an amplifier and amplified by a DC amplifeir 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 on the negative going transient the monoflops of IC9 and IC19.

Pulse 1

The width of the positive output pulse at pin 13 of IC9 is adjusted with P1. The pulse train is integrated with IC15 dtermines the current of the source Q9. This current adjusts the width of the pulse at the output pin 5 of IC19. This width is a bit less than the line period. When the opposite polarity output is taken from pin 7, this pulse starts just before the end of the scanning and can be used to trigger the horizontal sawtooth generator.

Pulse 2

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 is also added via D38 to pulse 1.

Horizontal axis conver- gence

The capacitor C602 is charged up through the current source Q2. In order to stabilize the amplitude, irrelevant the line frequency, the sawtooth is buffered, and integrated with IC3 / C7. The resulting voltage adjusts the charging current of the current source Q2 and the amplitude is set with 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 the IC4, IC16 and the multiplier IC20.

The voltage comparator IC16 (5-6-7) transforms the sawtooth into a squared Horizontal Switch Pulse of 24 V (+/- 12V). This switch signal is used to clamp either the ramp 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 digitally controlled potentiometers.

Vertical axis convergence

The vertical sawtooth generator is built 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 start of the horizontal sawtooth. This avoids a jitter for interlaced signals.

North-South / East-West and Midline corrections

For above corrections we need horizontal waveforms with an amplitude that depends on the vertical position or vertical scanning. The 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 types of corrections (referred to as "skew" and "bow") are required to correct the projection angle and the aberrations of the optical system.

The HSVS (Horizontal Sawtooth modulated on a Vertical Sawtooth) and HSVP are used for this.

The HSVS is first amplified with an OPAMP in IC30 and then clamped with Q11 and Q10 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 color the different outputs of the digital potentiometers are gathered per color 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 each time 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 clamping transistors.

We limit the explanation to one corner and one 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' on 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 the red and blue. The outputs are added in the summing amplifier to the rest of the corrections. (Geometry, Axis).

Summing amplifiers.

All the corrections for the horizontal convergence coils are added per color 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

R762454

R7625128

Parts listing Convergence module (Driver) 76 2454

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
100	R133074	Q ACC ISO SIL600 W 30	0,06	C 57	P210122	C# X7R MU 100N K 50 1206	1
	R3481082	WU JUMP 0.51 22,5 ISO RD	1	C 58	P210122	C# X7R MU 100N K 50 1206	1
110	R3631059	SCR D933 M 3 X 8 XIC	3	C 59	P210122	C# X7R MU 100N K 50 1206	1
200	R3631059	SCR D933 M 3 X 8 XIC	6	C 60	P210122	C# X7R MU 100N K 50 1206	1
130	R804674	Q ACC SPG 1XM3 SHORT	1	C 61	P210122	C# X7R MU 100N K 50 1206	1
120	R804769	Q ACC SPG 2XM3 SHORT	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	P210137	C# COG MU 100P J 50 1206	1
C 50	P210122	C# X7R MU 100N K 50 1206	1	C114	P210137	C# COG MU 100P J 50 1206	1
C 51	P210122	C# X7R MU 100N K 50 1206	1	C115	P210018	C# COG MU 33P J 50 0805	1
C 52	P210122	C# X7R MU 100N K 50 1206	1	C116	P210018	C# COG MU 33P J 50 0805	1
C 53	P210122	C# X7R MU 100N K 50 1206	1	C117	P210137	C# COG MU 100P J 50 1206	1
C 54	P210165	C# COG MU 39P J 50 1206	1	C118	P210137	C# COG MU 100P J 50 1206	1
C 55	P210165	C# COG MU 39P J 50 1206	1	C119	P210100	C# COG MU 47P J 50 1206	1
C 56	P210122	C# X7R MU 100N K 50 1206	1	C120	P210159	C# COG MU 18P J 50 1206	1
				C121	P210012	C# COG MU 4P7D 50 1206	1
				C122	P210159	C# COG MU 18P J 50 1206	1
				C123	P210122	C# X7R MU 100N K 50 1206	1
				C124	P210115	C# COG MU 6P8D 50 0805	1

Convergence module (DRIVER)

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C125	P210066	C# COG MU 270P J 50 1206	1	C581	P210122	C# X7R MU 100N K 50 1206	1
C601	R111531	C EL RA 10M M 35E2 85	1	C582	P210138	C# COG MU 10P J 50 1206	1
C602	P210150	C# X7R MU 3N3K 50 1206	1	C684	R111531	C EL RA 10M M 35E2 85	1
C603	P210122	C# X7R MU 100N K 50 1206	1	C686	R111466	C EL RA 100M Z 16E2 85	1
C604	P210121	C# COG MU 330P J 50 1206	1	C687	P210122	C# X7R MU 100N K 50 1206	1
C605	P210169	C# X7R MU 220N K 50 1210	1	C688	P210122	C# X7R MU 100N K 50 1206	1
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	C752	P210122	C# X7R MU 100N K 50 1206	1
C629	R111546	C EL RA 1M M 50E2 85	1	C753	P210122	C# X7R MU 100N K 50 1206	1
C630	R111531	C EL RA 10M M 35E2 85	1				
C631	P210122	C# X7R MU 100N K 50 1206	1	D 1	P234099	D#4148 R DMMELF	1
C632	P210122	C# X7R MU 100N K 50 1206	1	D 2	P234055	D#BAT54 SCH SOT23	1
C633	P210122	C# X7R MU 100N K 50 1206	1	D 3	P234055	D#BAT54 SCH SOT23	1
C634	R111546	C EL RA 1M M 50E2 85	1	D 4	P234055	D#BAT54 SCH SOT23	1
C635	R111531	C EL RA 10M M 35E2 85	1	D 5	P234055	D#BAT54 SCH SOT23	1
C637	P210122	C# X7R MU 100N K 50 1206	1	D 6	P234055	D#BAT54 SCH SOT23	1
C638	P210122	C# X7R MU 100N K 50 1206	1	D 7	P234055	D#BAT54 SCH SOT23	1
C639	P210122	C# X7R MU 100N K 50 1206	1	D 8	P234055	D#BAT54 SCH SOT23	1
C640	P210122	C# X7R MU 100N K 50 1206	1	D 9	P234099	D#4148 R DMMELF	1
C641	P210122	C# X7R MU 100N K 50 1206	1	D 11	P234055	D#BAT54 SCH SOT23	1
C642	R111479	C EL RA 470M Z 25E2 85	1	D 20	P234055	D#BAT54 SCH SOT23	1
C643	R111479	C EL RA 470M Z 25E2 85	1	D 25	P234055	D#BAT54 SCH SOT23	1
C644	P210122	C# X7R MU 100N K 50 1206	1	D 26	P234055	D#BAT54 SCH SOT23	1
C645	R111531	C EL RA 10M M 35E2 85	1	D 27	P234055	D#BAT54 SCH SOT23	1
C646	P210138	C# COG MU 10P J 50 1206	1	D 28	P234055	D#BAT54 SCH SOT23	1
C649	P210122	C# X7R MU 100N K 50 1206	1	D 29	P234055	D#BAT54 SCH SOT23	1
C650	R111500	C EL RA 47M M 10E2 85	1	D 30	P234055	D#BAT54 SCH SOT23	1
C651	P210122	C# X7R MU 100N K 50 1206	1	D 31	P234055	D#BAT54 SCH SOT23	1
C652	P210122	C# X7R MU 100N K 50 1206	1	D 32	P234055	D#BAT54 SCH SOT23	1
C654	P210122	C# X7R MU 100N K 50 1206	1	D 33	P234099	D#4148 R DMMELF	1
C655	P210122	C# X7R MU 100N K 50 1206	1	D 38	P234055	D#BAT54 SCH SOT23	1
C656	P210138	C# COG MU 10P J 50 1206	1	D 39	P234055	D#BAT54 SCH SOT23	1
C659	R111531	C EL RA 10M M 35E2 85	1	D 40	P234099	D#4148 R DMMELF	1
C660	P210122	C# X7R MU 100N K 50 1206	1	D 41	P234055	D#BAT54 SCH SOT23	1
C661	P210122	C# X7R MU 100N K 50 1206	1	D 42	P234099	D#4148 R DMMELF	1
C662	R111546	C EL RA 1M M 50E2 85	1	D 43	P234055	D#BAT54 SCH SOT23	1
C663	P210122	C# X7R MU 100N K 50 1206	1	D601	P234055	D#BAT54 SCH SOT23	1
C664	P210122	C# X7R MU 100N K 50 1206	1	D602	P234055	D#BAT54 SCH SOT23	1
C665	P210122	C# X7R MU 100N K 50 1206	1	D603	P234055	D#BAT54 SCH SOT23	1
C666	P210092	C# X7R MU 10N K 50 1206	1	D604	P234055	D#BAT54 SCH SOT23	1
C668	P210165	C# COG MU 39P J 50 1206	1				
C669	P210138	C# COG MU 10P J 50 1206	1	I 1	P230653	U#76013 SC SOL28 P	1
C671	P210122	C# X7R MU 100N K 50 1206	1	I 2	P230653	U#76013 SC SOL28 P	1
C672	P210122	C# X7R MU 100N K 50 1206	1	I 3	P230705	U#34084 MC SOL16 P	1
C674	P210122	C# X7R MU 100N K 50 1206	1	I 4	P230203	U#084 TL SO14 P	1
C675	P210122	C# X7R MU 100N K 50 1206	1	I 5	P230453	U#34081 MC SO8 P	1
C677	R111466	C EL RA 100M Z 16E2 85	1	I 6	P230653	U#76013 SC SOL28 P	1
C678	P210165	C# COG MU 39P J 50 1206	1	I 7	P230653	U#76013 SC SOL28 P	1
C679	P210153	C# Z5U MU 1M M 63 1812	1	I 8	P230203	U#084 TL SO14 P	1
C680	P210122	C# X7R MU 100N K 50 1206	1	I 9	P230073	U#74HCT123 SO16	1

Convergence module (DRIVER)

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I 10	P230453	U#34081 MC SO8 P	1	J606	R313922	J C T H MBT P 2 M2SN	1
I 11	P230203	U#084 TL SO14 P	1	J607	R313924	J C T H MBT P 4 M2SN	1
I 12	P230030	U#4053 SO16 I	1	J608	R313925	J C T H MBT P 5 M2SN	1
I 13	P230653	U#76013 SC SOL28 P	1	J609	R313928	J C T H MBT P 8 M2SN	1
I 14	P230653	U#76013 SC SOL28 P	1	J610	R313926	J C T H MBT P 6 M2SN	1
I 15	P230293	U#082 TL SO8 P	1	J611	R313928	J C T H MBT P 8 M2SN	1
I 16	P230028	U#393 LM SO8 P	1	J612	R313928	J C T H MBT P 8 M2SN	1
I 17	P230203	U#084 TL SO14 P	1	J613	R313928	J C T H MBT P 8 M2SN	1
I 18	P230453	U#34081 MC SO8 P	1	J618	R313923	J C T H MBT P 3 M2SN	1
I 19	P230451	U#4098 HCF SO16 I	1	J619	R313922	J C T H MBT P 2 M2SN	1
I 20	P230776	U#633 AD SO8 P	1	J620	R313923	J C T H MBT P 3 M2SN	1
I 21	P230653	U#76013 SC SOL28 P	1	J621	R313923	J C T 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
I 601	P230653	U#76013 SC SOL28 P	1	Q 11	P232004	Q#BC849C N SS SOT23	1
I 602	P230653	U#76013 SC SOL28 P	1	Q 12	P232046	Q#BSS123 F SS SOT23	1
I 603	P230203	U#084 TL SO14 P	1	Q 13	P232079	Q#BSS84 F SS SOT23	1
I 604	R134002	U 7812 TO220 P	1	Q 14	P232101	Q#BC859C P SS SOT23	1
I 605	R134016	U 7912 TO220 P	1	Q 15	P232101	Q#BC859C P SS SOT23	1
I 606	R134026	U 317T TO220 P	1	Q 16	P232046	Q#BSS123 F SS SOT23	1
I 607	R134027	U 337T TO220 P	1	Q 17	P232046	Q#BSS123 F SS SOT23	1
I 608	P230653	U#76013 SC SOL28 P	1	Q 18	P232004	Q#BC849C N SS SOT23	1
I 609	P230653	U#76013 SC SOL28 P	1	Q 19	P232101	Q#BC859C P SS SOT23	1
I 610	P230203	U#084 TL SO14 P	1	Q 20	P232004	Q#BC849C N SS SOT23	1
I 611	R134035	U 79L05 TO92 P	1	Q 21	P232101	Q#BC859C P SS SOT23	1
I 612	R134032	U 78L05 TO92 P	1	Q 22	P232101	Q#BC859C P SS SOT23	1
I 613	P230203	U#084 TL SO14 P	1	Q 23	P232079	Q#BSS84 F SS SOT23	1
I 614	P230203	U#084 TL SO14 P	1	Q 24	P232046	Q#BSS123 F SS SOT23	1
I 615	P230653	U#76013 SC SOL28 P	1	Q 25	P232079	Q#BSS84 F SS SOT23	1
I 616	P230653	U#76013 SC SOL28 P	1	Q 26	P232101	Q#BC859C P SS SOT23	1
I 617	P230203	U#084 TL SO14 P	1	Q 27	P232101	Q#BC859C P SS SOT23	1
I 618	P230653	U#76013 SC SOL28 P	1	Q601	P232046	Q#BSS123 F SS SOT23	1
I 619	P230653	U#76013 SC SOL28 P	1	Q602	P232004	Q#BC849C N SS SOT23	1
I 620	P230203	U#084 TL SO14 P	1	Q603	P232004	Q#BC849C N SS SOT23	1
I 621	P230653	U#76013 SC SOL28 P	1	Q604	P232004	Q#BC849C N SS SOT23	1
I 622	P230653	U#76013 SC SOL28 P	1				
I 623	P230203	U#084 TL SO14 P	1	R 1	P200095	R# CE H 8K2 J 0W12 1206	1
I 624	P230653	U#76013 SC SOL28 P	1	R 2	P200087	R# CE H 3K9 J 0W12 1206	1
I 625	P230653	U#76013 SC SOL28 P	1	R 3	P200077	R# CE H 1K5 J 0W12 1206	1
I 626	P230203	U#084 TL SO14 P	1	R 4	P200085	R# CE H 3K3 J 0W12 1206	1
				R 5	P200073	R# CE H 1K J 0W12 1206	1
J 1	R313925	J C T H MBT P 5 M2SN	1	R 6	P200057	R# CE H220E J 0W12 1206	1
J601	R313928	J C T H MBT P 8 M2SN	1	R 7	P200085	R# CE H 3K3 J 0W12 1206	1
J602	R313928	J C T H MBT P 8 M2SN	1	R 8	P200077	R# CE H 1K5 J 0W12 1206	1
J603	R313925	J C T H MBT P 5 M2SN	1	R 9	P200097	R# CE H 10K J 0W12 1206	1
J604	R313926	J C T H MBT P 6 M2SN	1	R 10	P200089	R# CE H 4K7 J 0W12 1206	1
J605	R313928	J C T H MBT P 8 M2SN	1	R 11	P200077	R# CE H 1K5 J 0W12 1206	1

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R 12	P200089	R# CE H 4K7 J 0W12 1206	1	R 85	P200089	R# CE H 4K7 J 0W12 1206	1
R 14	P200073	R# CE H 1K J 0W12 1206	1	R 86	P200097	R# CE H 10K J 0W12 1206	1
R 15	P200101	R# CE H 15K J 0W12 1206	1	R 87	P200097	R# CE H 10K J 0W12 1206	1
R 16	P200073	R# CE H 1K J 0W12 1206	1	R 88	P200097	R# CE H 10K J 0W12 1206	1
R 17	P200091	R# CE H 5K6 J 0W12 1206	1	R 89	P200081	R# CE H 2K2 J 0W12 1206	1
R 18	P200091	R# CE H 5K6 J 0W12 1206	1	R 90	P200073	R# CE H 1K J 0W12 1206	1
R 19	P200085	R# CE H 3K3 J 0W12 1206	1	R 91	P200087	R# CE H 3K9 J 0W12 1206	1
R 20	P200073	R# CE H 1K J 0W12 1206	1	R 92	P200081	R# CE H 2K2 J 0W12 1206	1
R 21	P200073	R# CE H 1K J 0W12 1206	1	R 93	P200099	R# CE H 12K J 0W12 1206	1
R 22	P200097	R# CE H 10K J 0W12 1206	1	R 94	P200089	R# CE H 4K7 J 0W12 1206	1
R 23	P200131	R# CE H 270K J 0W12 1206	1	R 95	P200089	R# CE H 4K7 J 0W12 1206	1
R 24	P200073	R# CE H 1K J 0W12 1206	1	R 96	P200089	R# CE H 4K7 J 0W12 1206	1
R 25	P200073	R# CE H 1K J 0W12 1206	1	R 97	P200097	R# CE H 10K J 0W12 1206	1
R 26	P200073	R# CE H 1K J 0W12 1206	1	R 98	P200097	R# CE H 10K J 0W12 1206	1
R 27	P200101	R# CE H 15K J 0W12 1206	1	R 99	P200097	R# CE H 10K J 0W12 1206	1
R 28	P200101	R# CE H 15K J 0W12 1206	1	R 100	P200085	R# CE H 3K3 J 0W12 1206	1
R 29	P200101	R# CE H 15K J 0W12 1206	1	R 102	P200105	R# CE H 22K J 0W12 1206	1
R 30	P200081	R# CE H 2K2 J 0W12 1206	1	R 103	P200073	R# CE H 1K J 0W12 1206	1
R 31	P200073	R# CE H 1K J 0W12 1206	1	R 104	P200073	R# CE H 1K J 0W12 1206	1
R 32	P200073	R# CE H 1K J 0W12 1206	1	R 105	P200083	R# CE H 2K7 J 0W12 1206	1
R 33	P200089	R# CE H 4K7 J 0W12 1206	1	R 106	P200105	R# CE H 22K J 0W12 1206	1
R 34	P200097	R# CE H 10K J 0W12 1206	1	R 107	P200049	R# CE H 100E J 0W12 1206	1
R 35	P200121	R# CE H 100K J 0W12 1206	1	R 108	P200087	R# CE H 3K9 J 0W12 1206	1
R 36	P200085	R# CE H 3K3 J 0W12 1206	1	R 109	P200081	R# CE H 2K2 J 0W12 1206	1
R 37	P200097	R# CE H 10K J 0W12 1206	1	R 110	P200099	R# CE H 12K J 0W12 1206	1
R 38	P200077	R# CE H 1K5 J 0W12 1206	1	R 111	P200087	R# CE H 3K9 J 0W12 1206	1
R 39	P200105	R# CE H 22K J 0W12 1206	1	R 112	P200079	R# CE H 1K8 J 0W12 1206	1
R 40	P200085	R# CE H 3K3 J 0W12 1206	1	R 113	P200073	R# CE H 1K J 0W12 1206	1
R 42	P200097	R# CE H 10K J 0W12 1206	1	R 114	P200081	R# CE H 2K2 J 0W12 1206	1
R 43	P200121	R# CE H 100K J 0W12 1206	1	R 115	P200095	R# CE H 8K2 J 0W12 1206	1
R 44	P200093	R# CE H 6K8 J 0W12 1206	1	R 116	P200097	R# CE H 10K J 0W12 1206	1
R 45	P200093	R# CE H 6K8 J 0W12 1206	1	R 118	P200093	R# CE H 6K8 J 0W12 1206	1
R 46	P200097	R# CE H 10K J 0W12 1206	1	R 119	P200093	R# CE H 6K8 J 0W12 1206	1
R 47	P200081	R# CE H 2K2 J 0W12 1206	1	R 120	P200081	R# CE H 2K2 J 0W12 1206	1
R 48	P200081	R# CE H 2K2 J 0W12 1206	1	R 121	P200081	R# CE H 2K2 J 0W12 1206	1
R 49	P200097	R# CE H 10K J 0W12 1206	1	R 122	P200101	R# CE H 15K J 0W12 1206	1
R 50	P200097	R# CE H 10K J 0W12 1206	1	R 123	P200101	R# CE H 15K J 0W12 1206	1
R 51	P200121	R# CE H 100K J 0W12 1206	1	R 124	P200101	R# CE H 15K J 0W12 1206	1
R 52	P200097	R# CE H 10K J 0W12 1206	1	R 125	P200101	R# CE H 15K J 0W12 1206	1
R 54	P200386	R# CE H 91E F 0W12 1206	1	R 126	P200097	R# CE H 10K J 0W12 1206	1
R 55	P200051	R# CE H 120E J 0W12 1206	1	R 127	P200081	R# CE H 2K2 J 0W12 1206	1
R 58	P200089	R# CE H 4K7 J 0W12 1206	1	R 128	P200079	R# CE H 1K8 J 0W12 1206	1
R 59	P200085	R# CE H 3K3 J 0W12 1206	1	R 129	P200065	R# CE H 470E J 0W12 1206	1
R 60	P200081	R# CE H 2K2 J 0W12 1206	1	R 130	P200065	R# CE H 470E J 0W12 1206	1
R 61	P200081	R# CE H 2K2 J 0W12 1206	1	R 131	P200081	R# CE H 2K2 J 0W12 1206	1
R 62	P200097	R# CE H 10K J 0W12 1206	1	R 132	P200101	R# CE H 15K J 0W12 1206	1
R 63	P200097	R# CE H 10K J 0W12 1206	1	R 133	P200101	R# CE H 15K J 0W12 1206	1
R 64	P200097	R# CE H 10K J 0W12 1206	1	R 134	P200101	R# CE H 15K J 0W12 1206	1
R 65	P200093	R# CE H 6K8 J 0W12 1206	1	R 135	P200101	R# CE H 15K J 0W12 1206	1
R 66	P200093	R# CE H 6K8 J 0W12 1206	1	R 136	P200081	R# CE H 2K2 J 0W12 1206	1
R 67	P200081	R# CE H 2K2 J 0W12 1206	1	R 137	P200093	R# CE H 6K8 J 0W12 1206	1
R 68	P200073	R# CE H 1K J 0W12 1206	1	R 138	P200093	R# CE H 6K8 J 0W12 1206	1
R 69	P200073	R# CE H 1K J 0W12 1206	1	R 139	P200097	R# CE H 10K J 0W12 1206	1
R 70	P200099	R# CE H 12K J 0W12 1206	1	R 140	P200079	R# CE H 1K8 J 0W12 1206	1
R 71	P200073	R# CE H 1K J 0W12 1206	1	R 141	P200087	R# CE H 3K9 J 0W12 1206	1
R 72	P200073	R# CE H 1K J 0W12 1206	1	R 143	P200121	R# CE H 100K J 0W12 1206	1
R 73	P200099	R# CE H 12K J 0W12 1206	1	R 144	P200073	R# CE H 1K J 0W12 1206	1
R 74	P200085	R# CE H 3K3 J 0W12 1206	1	R 145	P200049	R# CE H 100E J 0W12 1206	1
R 75	P200097	R# CE H 10K J 0W12 1206	1	R 146	P200097	R# CE H 10K J 0W12 1206	1
R 76	P200085	R# CE H 3K3 J 0W12 1206	1	R 147	P200085	R# CE H 3K3 J 0W12 1206	1
R 77	P200073	R# CE H 1K J 0W12 1206	1	R 148	P200105	R# CE H 22K J 0W12 1206	1
R 78	P200099	R# CE H 12K J 0W12 1206	1	R 149	P200085	R# CE H 3K3 J 0W12 1206	1
R 79	P200073	R# CE H 1K J 0W12 1206	1	R 150	P200073	R# CE H 1K J 0W12 1206	1
R 80	P200065	R# CE H 470E J 0W12 1206	1	R 151	P200085	R# CE H 3K3 J 0W12 1206	1
R 81	P200099	R# CE H 12K J 0W12 1206	1	R 152	P200087	R# CE H 3K9 J 0W12 1206	1
R 82	P200073	R# CE H 1K J 0W12 1206	1	R 153	P200079	R# CE H 1K8 J 0W12 1206	1
R 83	P200089	R# CE H 4K7 J 0W12 1206	1	R 154	P200073	R# CE H 1K J 0W12 1206	1
R 84	P200089	R# CE H 4K7 J 0W12 1206	1	R 155	P200105	R# CE H 22K J 0W12 1206	1

Convergence module (DRIVER)

GREEN Convergence module

R762454

R7625128

R156	P200073	R# CE H 1K J 0W12 1206	1	R227	P200105	R# CE H 22K J 0W12 1206	1
R157	P200097	R# CE H 10K J 0W12 1206	1	R228	P200097	R# CE H 10K J 0W12 1206	1
R158	P200121	R# CE H 100K 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 H 100K 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 H 100K 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 H 270K 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 H 100K 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	R270	P200103	R# CE H 18K J 0W12 1206	1
R198	P200089	R# CE H 4K7 J 0W12 1206	1	R271	P200103	R# CE H 18K J 0W12 1206	1
R199	P200097	R# CE H 10K J 0W12 1206	1	R272	P200103	R# CE H 18K J 0W12 1206	1
R200	P200087	R# CE H 3K9 J 0W12 1206	1	R273	P200103	R# CE H 18K J 0W12 1206	1
R201	P200097	R# CE H 10K J 0W12 1206	1	R274	P200103	R# CE H 18K J 0W12 1206	1
R202	P200093	R# CE H 6K8 J 0W12 1206	1	R275	P200103	R# CE H 18K J 0W12 1206	1
R203	P200093	R# CE H 6K8 J 0W12 1206	1	R276	P200103	R# CE H 18K J 0W12 1206	1
R204	P200081	R# CE H 2K2 J 0W12 1206	1	R277	P200103	R# CE H 18K J 0W12 1206	1
R205	P200081	R# CE H 2K2 J 0W12 1206	1	R278	P200113	R# CE H 47K J 0W12 1206	1
R206	P200101	R# CE H 15K J 0W12 1206	1	R279	P200057	R# CE H 220E J 0W12 1206	1
R207	P200101	R# CE H 15K J 0W12 1206	1	R280	P200095	R# CE H 8K2 J 0W12 1206	1
R208	P200101	R# CE H 15K J 0W12 1206	1	R281	P200095	R# CE H 8K2 J 0W12 1206	1
R209	P200101	R# CE H 15K J 0W12 1206	1	R282	P200095	R# CE H 8K2 J 0W12 1206	1
R210	P200089	R# CE H 4K7 J 0W12 1206	1	R283	P200089	R# CE H 4K7 J 0W12 1206	1
R211	P200097	R# CE H 10K J 0W12 1206	1	R284	P200081	R# CE H 2K2 J 0W12 1206	1
R213	P200085	R# CE H 3K3 J 0W12 1206	1	R285	P200081	R# CE H 2K2 J 0W12 1206	1
R214	P200085	R# CE H 3K3 J 0W12 1206	1	R286	P200073	R# CE H 1K J 0W12 1206	1
R215	P200081	R# CE H 2K2 J 0W12 1206	1	R287	P200097	R# CE H 10K J 0W12 1206	1
R216	P200101	R# CE H 15K J 0W12 1206	1	R288	P200121	R# CE H 100K J 0W12 1206	1
R217	P200101	R# CE H 15K J 0W12 1206	1	R289	P200081	R# CE H 2K2 J 0W12 1206	1
R218	P200101	R# CE H 15K J 0W12 1206	1	R290	P200089	R# CE H 4K7 J 0W12 1206	1
R219	P200101	R# CE H 15K J 0W12 1206	1	R291	P200073	R# CE H 1K J 0W12 1206	1
R220	P200081	R# CE H 2K2 J 0W12 1206	1	R292	P200073	R# CE H 1K J 0W12 1206	1
R221	P200073	R# CE H 1K J 0W12 1206	1	R293	P200083	R# CE H 2K7 J 0W12 1206	1
R222	P200081	R# CE H 2K2 J 0W12 1206	1	R294	P200097	R# CE H 10K J 0W12 1206	1
R223	P200093	R# CE H 6K8 J 0W12 1206	1	R295	P200081	R# CE H 2K2 J 0W12 1206	1
R224	P200093	R# CE H 6K8 J 0W12 1206	1	R297	P200073	R# CE H 1K J 0W12 1206	1
R225	P200073	R# CE H 1K J 0W12 1206	1	R298	P200073	R# CE H 1K J 0W12 1206	1
R226	P200105	R# CE H 22K J 0W12 1206	1	R299	P200123	R# CE H 120K J 0W12 1206	1

Convergence module (DRIVER)

GREEN Convergence module

R762454

R7625128

R300	P200073	R# CE H 1K J 0W12 1206	1	R370	P200065	R# CE H470E J 0W12 1206	1
R301	P200432	R# CE H 7K5 F 0W12 1206	1	R371	P200049	R# CE H100E J 0W12 1206	1
R302	P200073	R# CE H 1K J 0W12 1206	1	R372	P200065	R# CE H470E J 0W12 1206	1
R303	P200123	R# CE H120K J 0W12 1206	1	R373	P200049	R# CE H100E J 0W12 1206	1
R304	P200105	R# CE H 22K J 0W12 1206	1	R374	P200065	R# CE H470E J 0W12 1206	1
R305	P200105	R# CE H 22K J 0W12 1206	1	R375	P200049	R# CE H100E J 0W12 1206	1
R306	P200049	R# CE H100E J 0W12 1206	1	R378	P200121	R# CE H100K J 0W12 1206	1
R307	P200131	R# CE H270K J 0W12 1206	1	R379	P200065	R# CE H470E J 0W12 1206	1
R308	P200073	R# CE H 1K J 0W12 1206	1	R380	P200049	R# CE H100E J 0W12 1206	1
R309	P200065	R# CE H470E J 0W12 1206	1	R381	P200065	R# CE H470E J 0W12 1206	1
R310	P200049	R# CE H100E J 0W12 1206	1	R382	P200049	R# CE H100E J 0W12 1206	1
R311	P200065	R# CE H470E J 0W12 1206	1	R383	P200428	R# CE H 5K1 F 0W12 1206	1
R312	P200049	R# CE H100E J 0W12 1206	1	R384	P200428	R# CE H 5K1 F 0W12 1206	1
R313	P200065	R# CE H470E J 0W12 1206	1	R385	P200093	R# CE H 6K8 J 0W12 1206	1
R314	P200049	R# CE H100E J 0W12 1206	1	R386	P200097	R# CE H 10K J 0W12 1206	1
R315	P200065	R# CE H470E J 0W12 1206	1	R387	P200097	R# CE H 10K J 0W12 1206	1
R316	P200049	R# CE H100E J 0W12 1206	1	R388	P200097	R# CE H 10K J 0W12 1206	1
R317	P200073	R# CE H 1K J 0W12 1206	1	R601	P200095	R# CE H 8K2 J 0W12 1206	1
R318	P200131	R# CE H270K J 0W12 1206	1	R602	P200097	R# CE H 10K J 0W12 1206	1
R319	P200073	R# CE H 1K J 0W12 1206	1	R603	P200097	R# CE H 10K J 0W12 1206	1
R320	P200073	R# CE H 1K J 0W12 1206	1	R604	P200101	R# CE H 15K J 0W12 1206	1
R321	P200105	R# CE H 22K J 0W12 1206	1	R605	P200101	R# CE H 15K J 0W12 1206	1
R322	P200127	R# CE H180K J 0W12 1206	1	R606	P200101	R# CE H 15K J 0W12 1206	1
R325	P200097	R# CE H 10K J 0W12 1206	1	R607	P200073	R# CE H 1K J 0W12 1206	1
R326	P200091	R# CE H 5K6 J 0W12 1206	1	R608	P200081	R# CE H 2K2 J 0W12 1206	1
R327	P200444	R# CE H 24K F 0W12 1206	1	R609	P200073	R# CE H 1K J 0W12 1206	1
R328	P200097	R# CE H 10K J 0W12 1206	1	R610	P200073	R# CE H 1K J 0W12 1206	1
R329	P200097	R# CE H 10K J 0W12 1206	1	R611	P200097	R# CE H 10K J 0W12 1206	1
R330	P200091	R# CE H 5K6 J 0W12 1206	1	R612	P200073	R# CE H 1K J 0W12 1206	1
R331	P200103	R# CE H 18K J 0W12 1206	1	R613	P200073	R# CE H 1K J 0W12 1206	1
R332	P200097	R# CE H 10K J 0W12 1206	1	R614	P200097	R# CE H 10K J 0W12 1206	1
R333	P200097	R# CE H 10K J 0W12 1206	1	R615	P200073	R# CE H 1K J 0W12 1206	1
R334	P200065	R# CE H470E J 0W12 1206	1	R616	P200101	R# CE H 15K J 0W12 1206	1
R335	P200049	R# CE H100E J 0W12 1206	1	R617	P200101	R# CE H 15K J 0W12 1206	1
R336	P200065	R# CE H470E J 0W12 1206	1	R618	P200097	R# CE H 10K J 0W12 1206	1
R337	P200049	R# CE H100E J 0W12 1206	1	R619	P200097	R# CE H 10K J 0W12 1206	1
R338	P200065	R# CE H470E J 0W12 1206	1	R620	P200101	R# CE H 15K J 0W12 1206	1
R339	P200049	R# CE H100E J 0W12 1206	1	R621	P200101	R# CE H 15K J 0W12 1206	1
R340	P200065	R# CE H470E J 0W12 1206	1	R622	P200091	R# CE H 5K6 J 0W12 1206	1
R341	P200049	R# CE H100E J 0W12 1206	1	R623	P200091	R# CE H 5K6 J 0W12 1206	1
R342	P200065	R# CE H470E J 0W12 1206	1	R624	P200101	R# CE H 15K J 0W12 1206	1
R343	P200049	R# CE H100E J 0W12 1206	1	R625	P200081	R# CE H 2K2 J 0W12 1206	1
R344	P200065	R# CE H470E J 0W12 1206	1	R626	P200081	R# CE H 2K2 J 0W12 1206	1
R345	P200049	R# CE H100E J 0W12 1206	1	R627	P200087	R# CE H 3K9 J 0W12 1206	1
R346	P200065	R# CE H470E J 0W12 1206	1	R628	P200087	R# CE H 3K9 J 0W12 1206	1
R347	P200049	R# CE H100E J 0W12 1206	1	R629	P200097	R# CE H 10K J 0W12 1206	1
R348	P200065	R# CE H470E J 0W12 1206	1	R630	P200073	R# CE H 1K J 0W12 1206	1
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Convergence module (DRIVER)

GREEN Convergence module

R762454

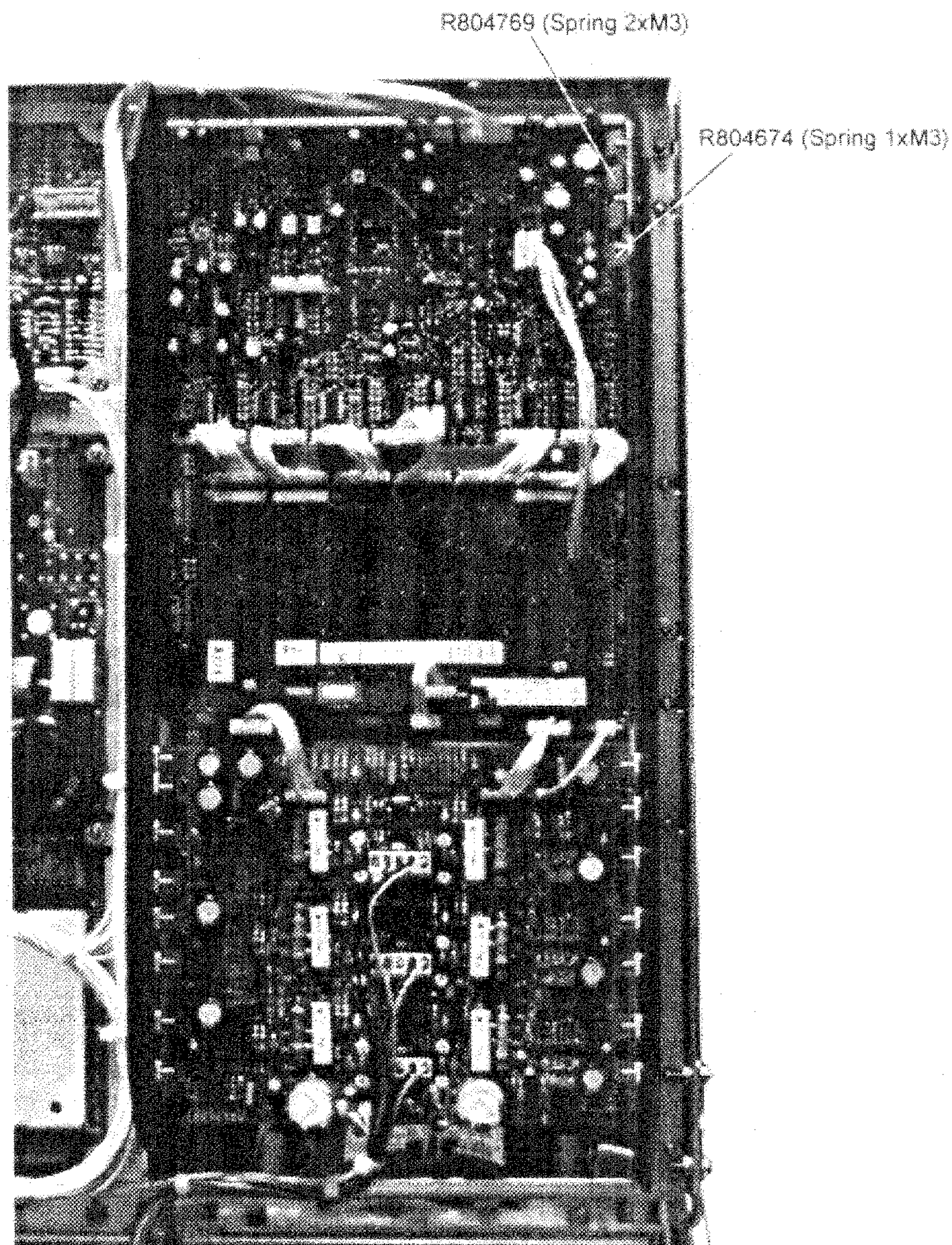
R7625128

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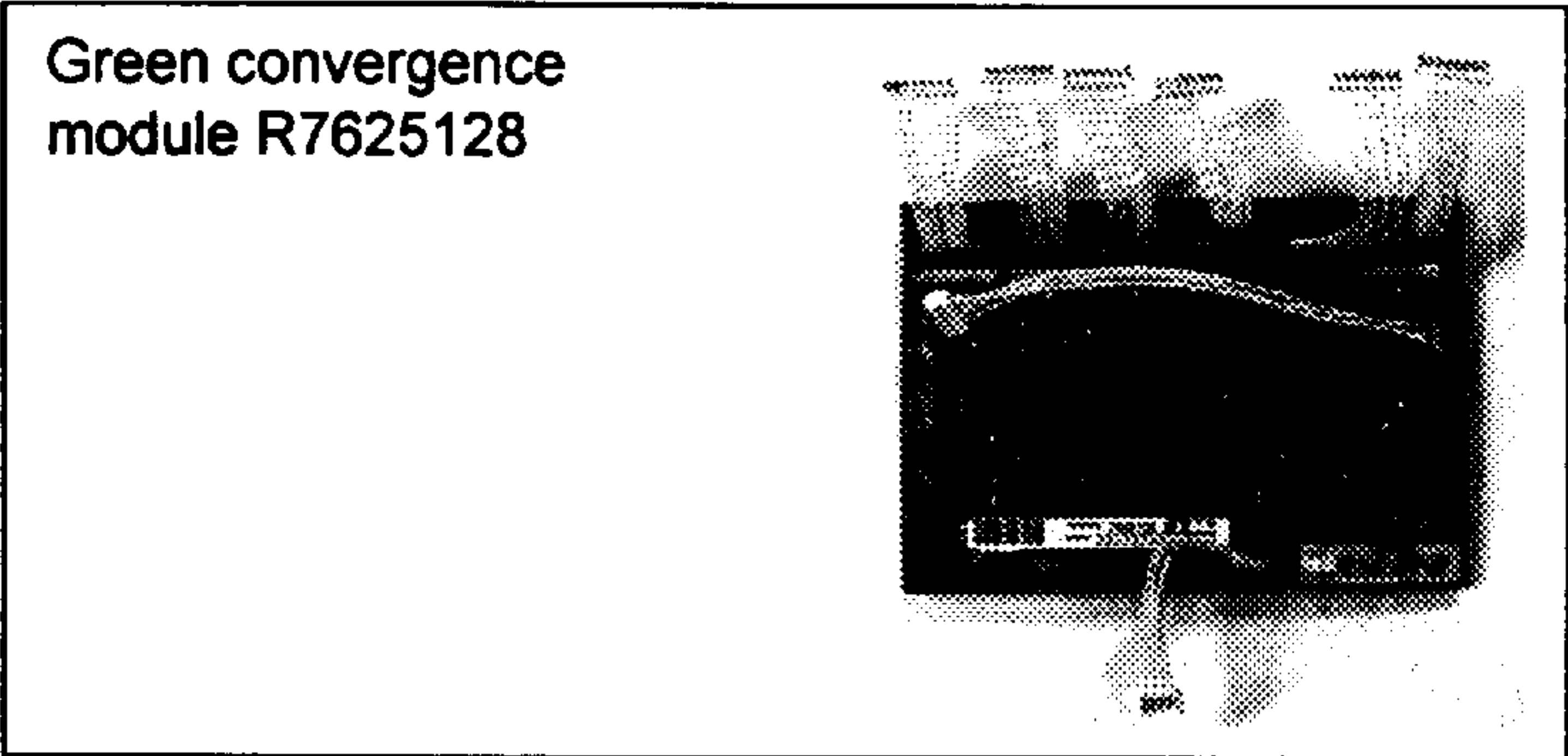
Convergence module (DRIVER)

GREEN Convergence module

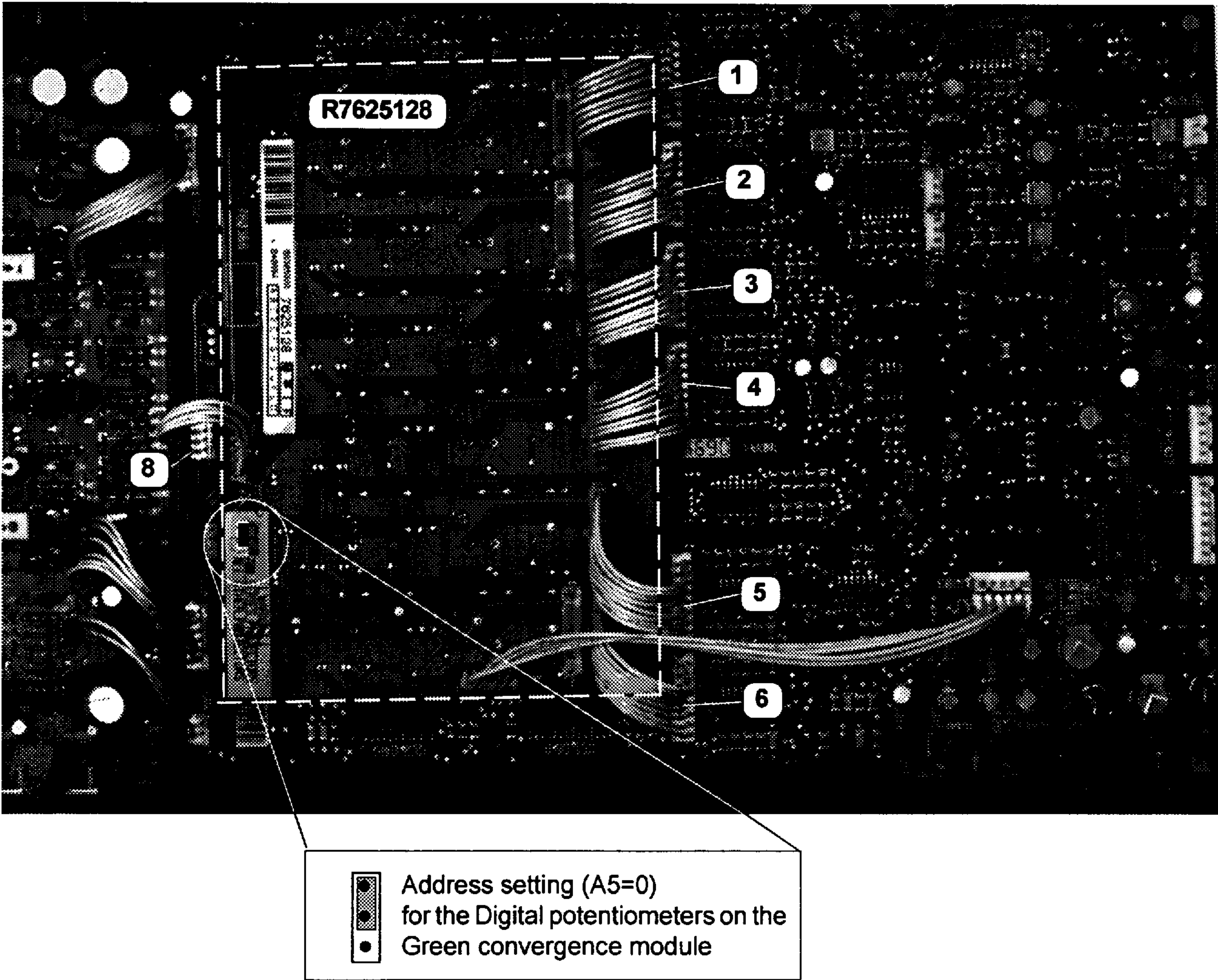
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Mounting guidelines for the GREEN convergence module R7625128

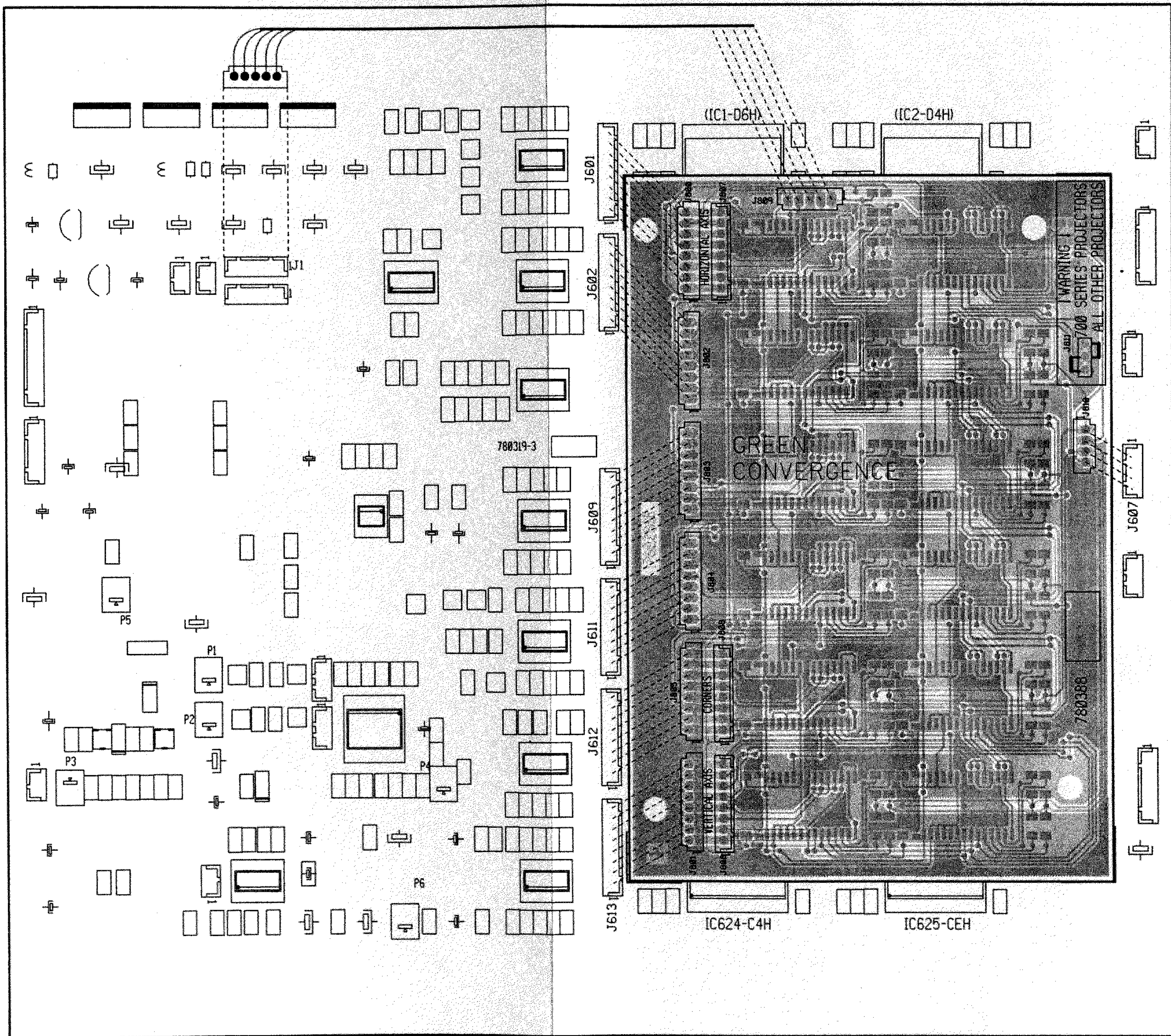


Interconnection Green convergence module



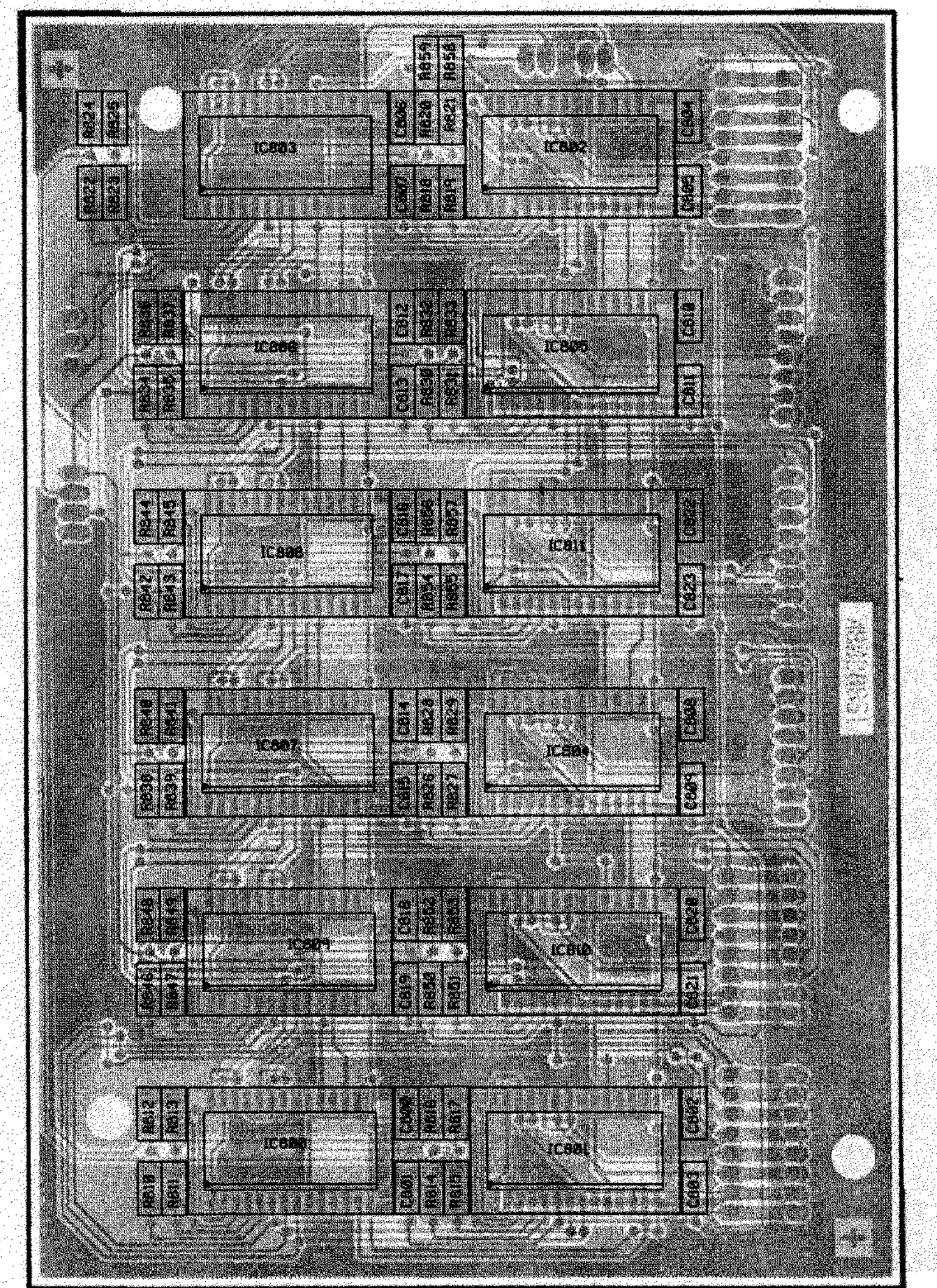
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C19	C 3	IC610	C 3	R281	C 5
C22	C 3	IC611	A 3	R284	C 5
C26	B 5	IC612	A 3	R286	C 6
C27	A 5	IC613	C 3	R288	B 5
C28	B 3	IC614	C 3	R293	B 5
C29	B 3	IC617	C 4	R294	C 5
C41	A 5	IC620	C 4	R295	B 4
C42	D 5	IC623	C 5	R298	A 4
C43	D 5	IC626	C 5	R299	B 5
C45	C 5	IC800	G 5	R31	E 4
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	R363	A 3
C58	C 3	IC806	G 3	R384	A 3
C68	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
C11	B 4	J610	E 3	R623	D 2
C12	B 4	J614	B 3	R624	C 3
C13	E 2	J615	B 5	R626	C 3
C14	E 2	J616	B 3	R628	C 3
C17	A 5	J617	E 4	R635	C 3
C18	B 5	J618	E 3	R637	C 3
C19	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
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C615	B 2	J803	D 4	R681	C 4
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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	Q8	C 5	R810	F 5
C677	B 6	Q24	B 5	R811	C 5
C684	B 5	Q25	B 4	R812	F 5
C686	B 6	Q26	B 5	R813	C 5
C690	B 5	Q27	A 5	R814	C 5
C691	A 5	Q602	C 2	R815	C 5
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C693	B 5	R3	C 2	R817	C 5
C701	A 4	R7	C 2	R818	C 3
C703	C 6	R16	C 2	R819	C 3
C704	C 5	R20	A 5	R820	C 3
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C710	C 4	R24	A 5	R823	F 3
C711	F 5	R26	C 2	R824	F 3
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C713	B 4	R38	B 2	R826	G 4
C714	B 3	R39	C 2	R827	C 4
C715	C 3	R40	C 2	R828	C 4
C800	G 5	R41	A 5	R829	G 4
C801	G 5	R43	A 5	R830	C 3
C802	H 5	R45	C 3	R831	C 3
C803	H 5	R48	C 3	R832	C 3
C804	H 3	R50	C 3	R833	C 3
C805	H 3	R65	C 3	R834	F 3
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C818	C 5	R120	C 4	R847	C 5
C819	G 5	R128	B 5	R848	F 5
C820	H 5	R136	C 4	R849	C 5
C821	H 5	R138	C 4	R850	C 5
C822	H 4	R140	B 4	R851	C 5
C823	H 4	R141	B 4	R852	C 5
		R162	C 4	R853	C 5
D2	C 2	R163	C 4	R854	C 4
D4	B 5	R178	C 5	R855	C 4
D5	B 5	R180	C 5	R856	C 4
D6	C 3	R182	C 5	R857	C 4
D7	C 3	R193	B 5	R858	C 3
D8	C 4	R184	C 5	R859	C 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	R238	B 4		
IC601	D 2	R239	B 4		
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IC604	A 2	R244	C 5		

TOP VIEW



CONVERGENCE DRIVER

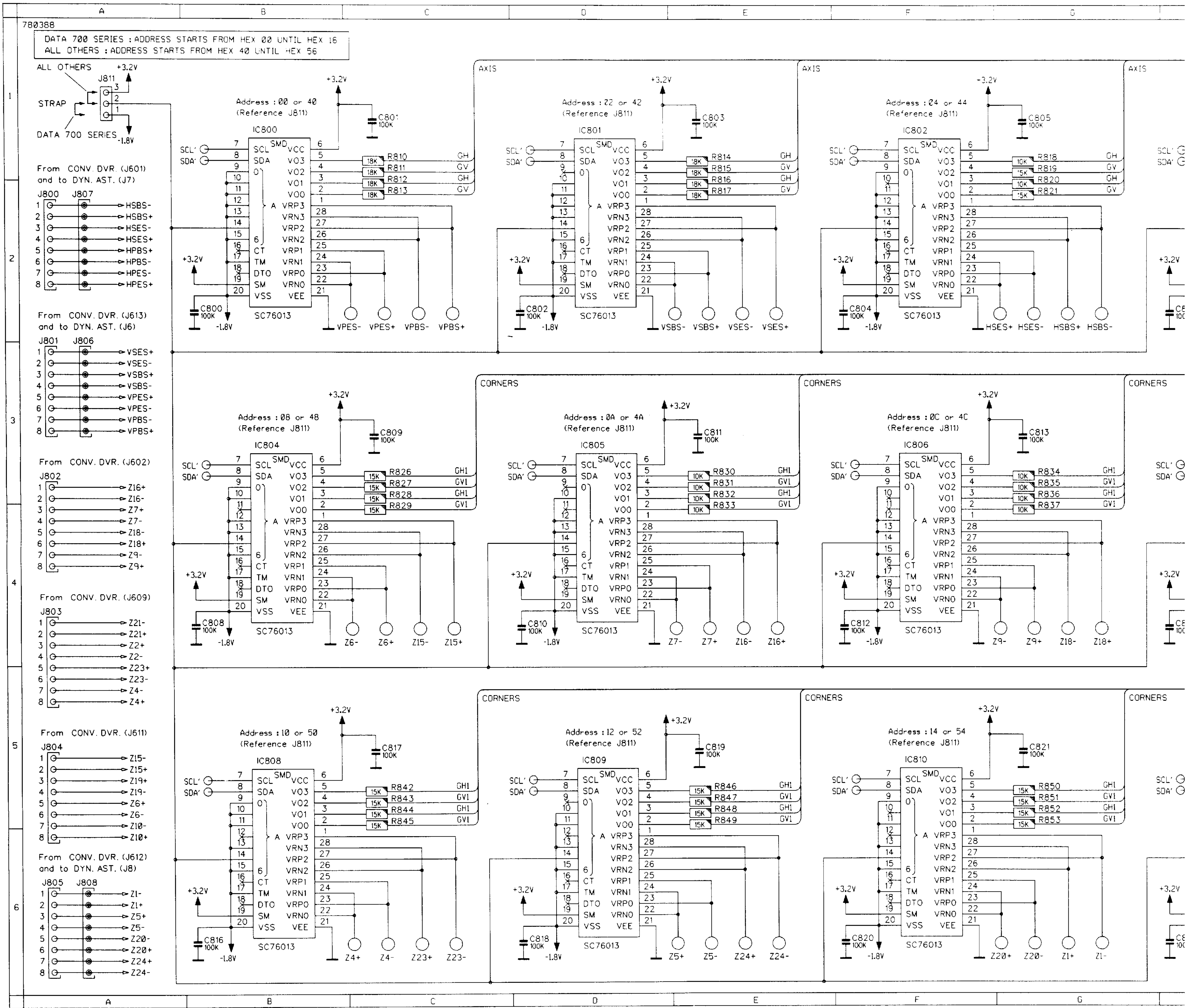
BOTTOM VIEW



GREEN CONVERGENCE

Name GREEN CONVERGENCE		Article n° 76 25028-1B	
Date 16-12-1994	Drawn JVDY	Checked GM	
BARCO PROJECTION SYSTEMS			

Modifications reserved



Convergence module (DRIVER)

GREEN Convergence module

R762454

R7625128

Parts listing Green Convergence module R7625128

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
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C816	P210122	C# X7R MU 100N K 50 1206	1	R837	P200097	R# CE H 10K J 0W12 1206	1
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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
I811	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 C T H MBT P 8 M2SN	1				
J807	R313928	J C T H MBT P 8 M2SN	1				
J808	R313928	J C T 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				