



BARCO Projection Systems

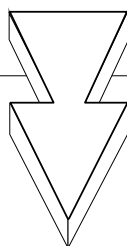
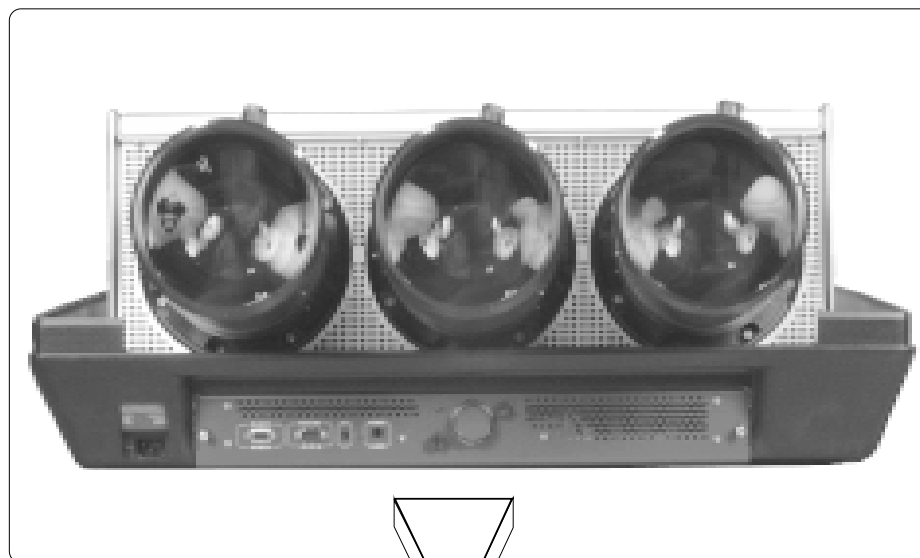
SECTION **V**

service sheet

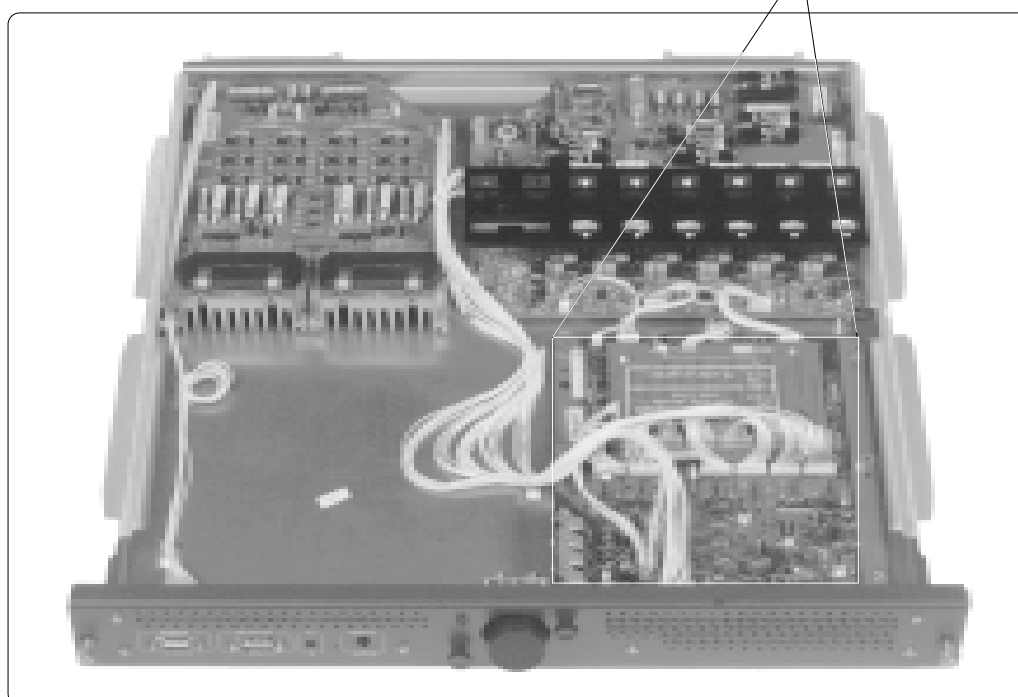
Convergence DRIVER module

GREEN Convergence module

R762518
R7625128



**Convergence Driver
module R762518**



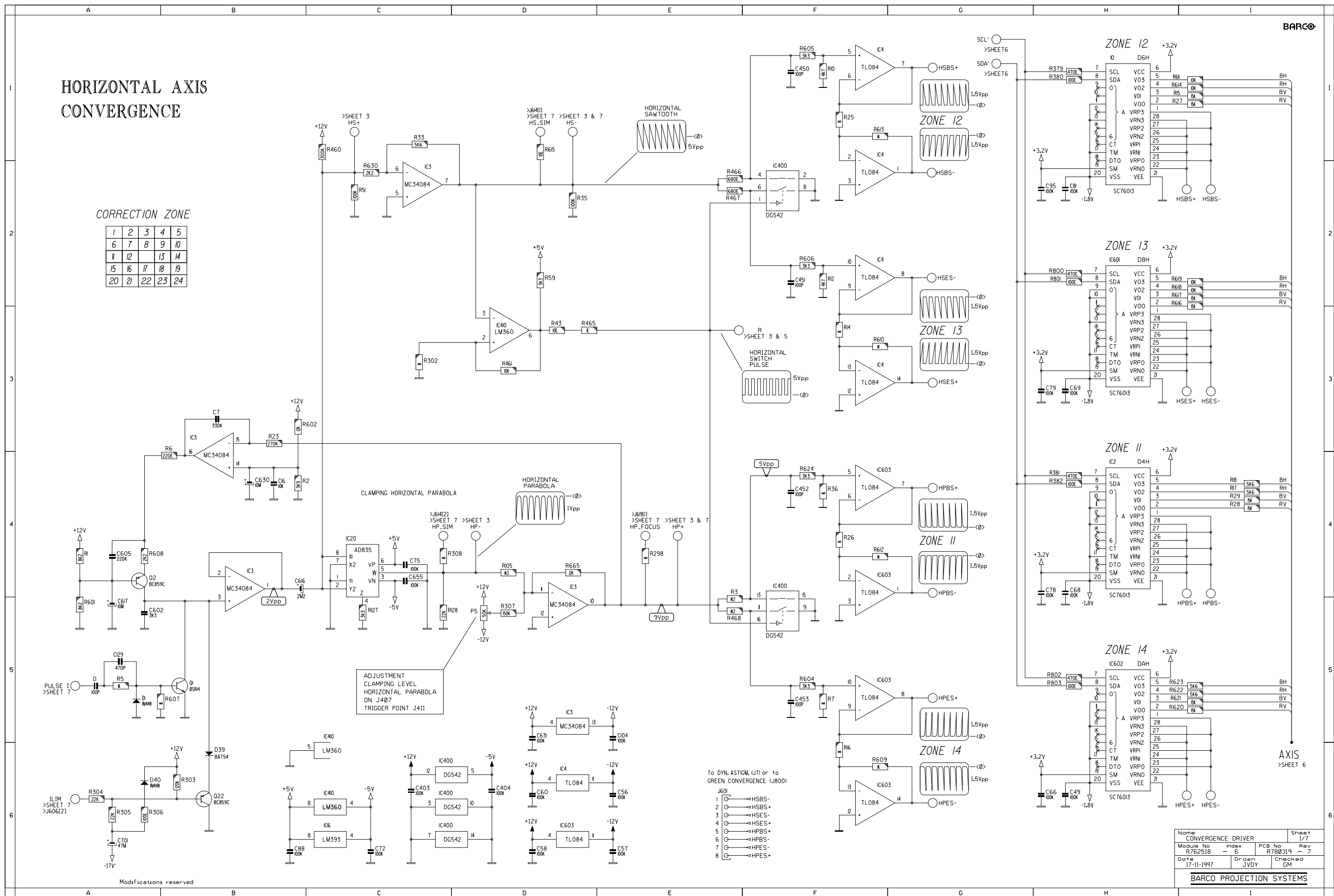
R762518_r00

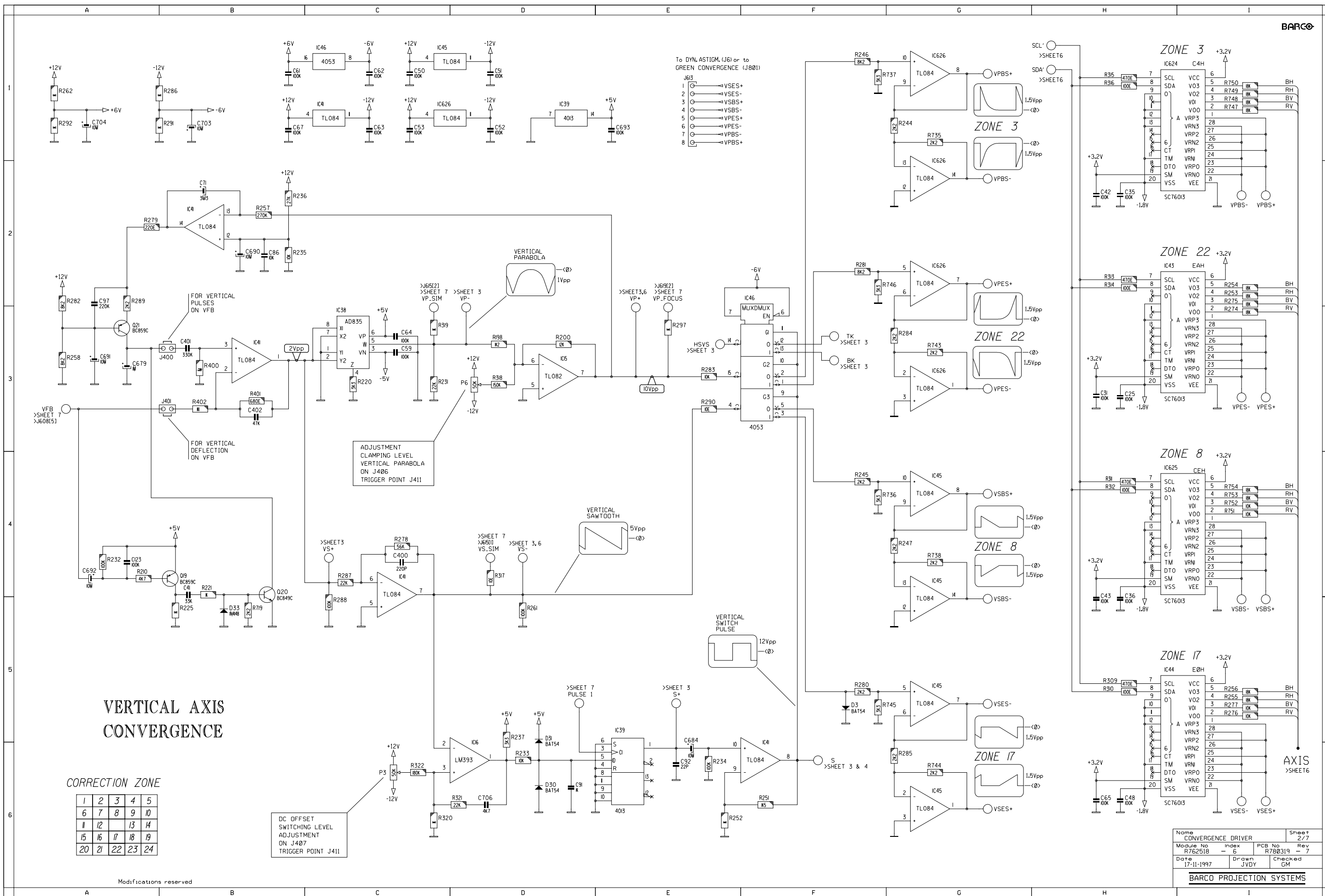
BOTTOM VIEW

Name CONVERGENCE DRIVER			Sheet 2 / 2	
Module No R762518		Index — 6	PCB No R780319	Rev — 7
Date 118-11-199		Drawn JVDY	Checked GM	
BARCO PROJECTION SYSTEMS				

CORRECTION ZONE

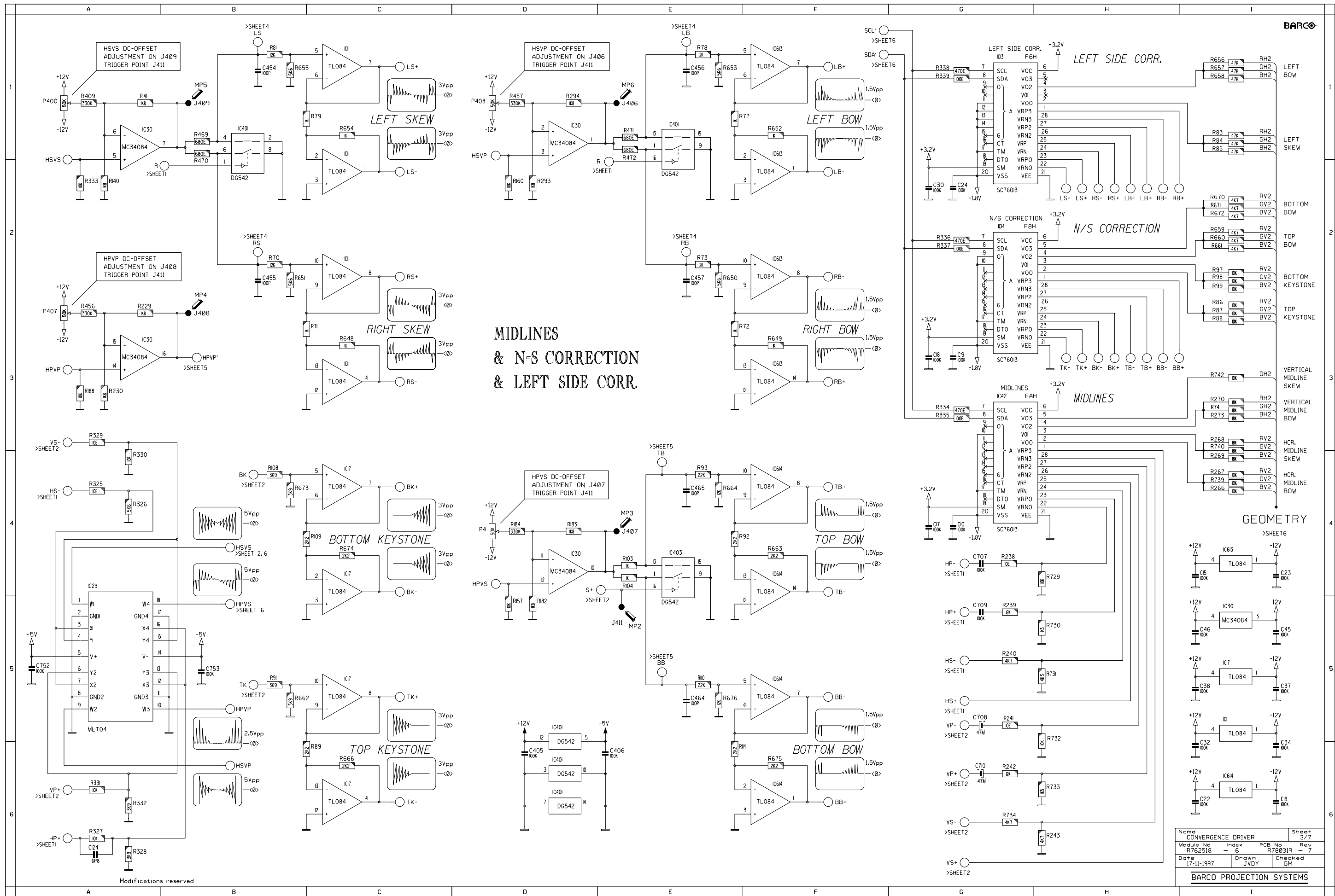
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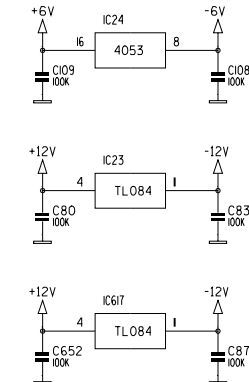
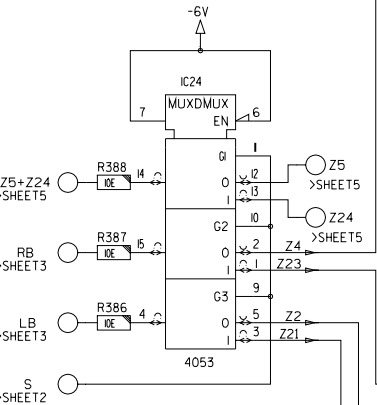
Name	CONVERGENCE DRIVER	Sheet	2/7
Module No	R762518	Index	6
PCB No	R780319	Rev	7
Date	17-11-1997	Drawn	JVDY
		Checked	GM

BARCO PROJECTION SYSTEMS



Name		Sheet	
CONVERGENCE DRIVER		3/7	
Module No	Index	PCB No	Rev
R762518	6	R760319	7
Date	Drawn	Checked	
17-11-1997	JVDY	GM	
BARCO PROJECTION SYSTEMS			

CORNER CONVERGENCE



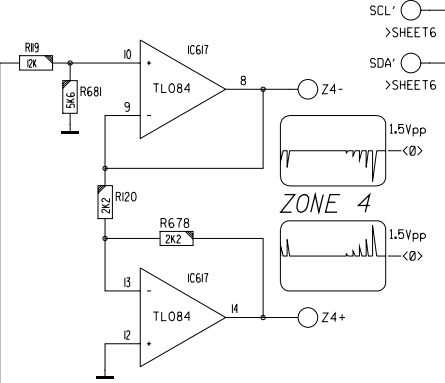
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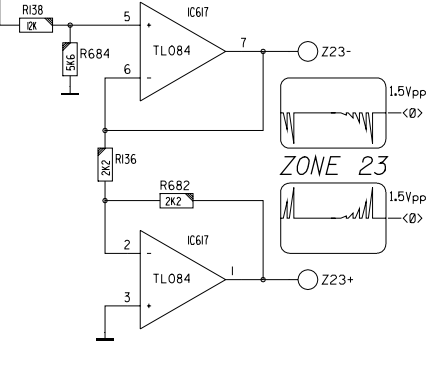
- To GREEN CONV. (J803)
- 1 J609
 - 2 Z21-
 - 3 Z21+
 - 4 Z22+
 - 5 Z22-
 - 6 Z23+
 - 7 Z23-
 - 8 Z24+

Modifications reserved

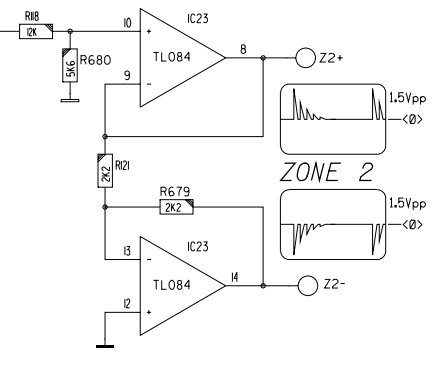
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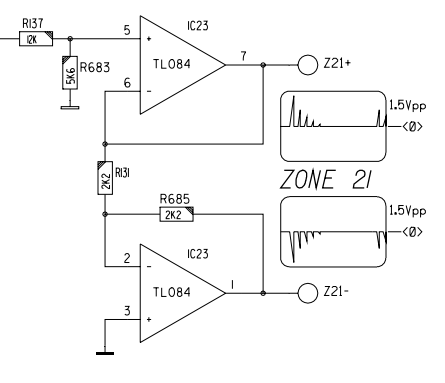
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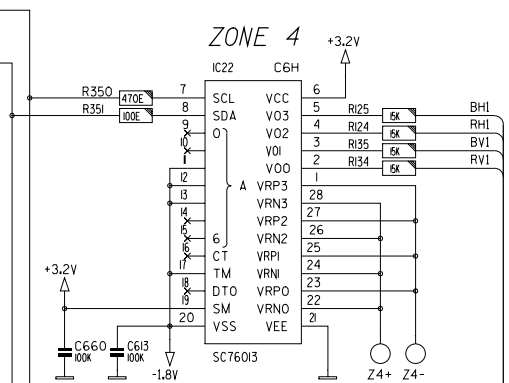
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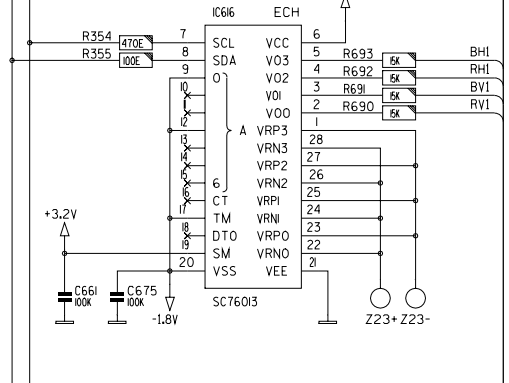
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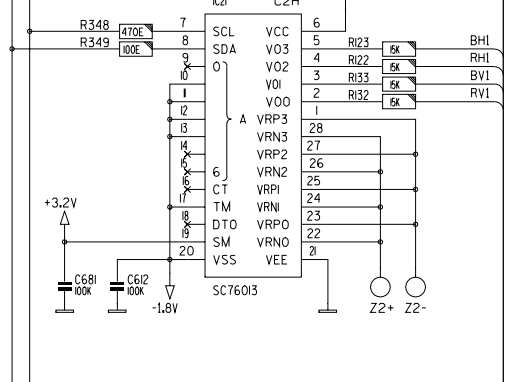
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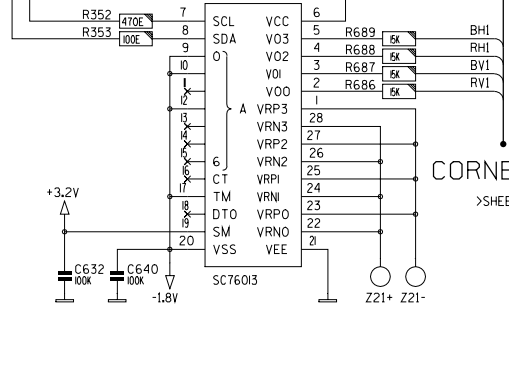
ZONE 23



ZONE 2



ZONE 21



CORNERS

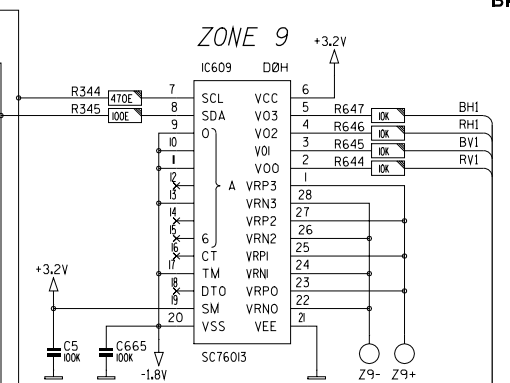
>SHEET6

CORRECTION ZONE

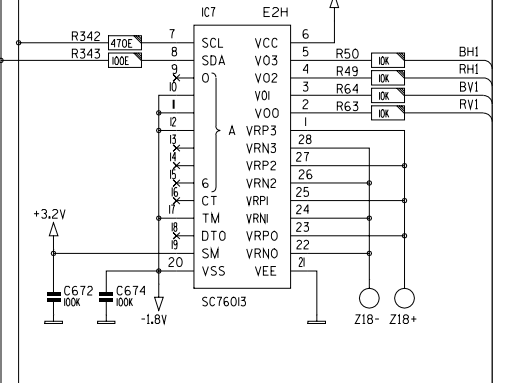
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20	21	22	23	24

- To GREEN CONV. (J802)
- 1 J602
 - 2 Z16+
 - 3 Z16-
 - 4 Z17+
 - 5 Z17-
 - 6 Z18+
 - 7 Z18-
 - 8 Z19+

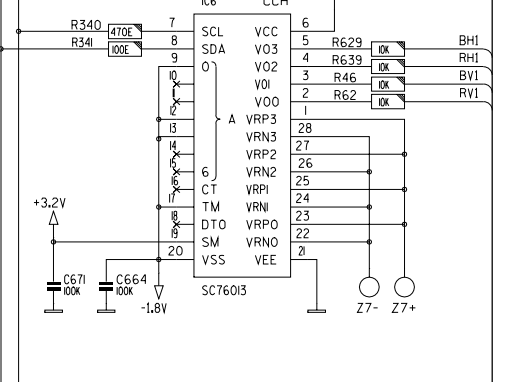
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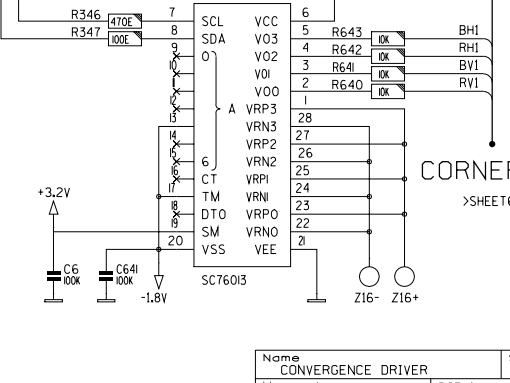
ZONE 18



ZONE 7



ZONE 16

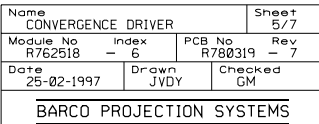


CORNERS

>SHEET6

Name	CONVERGENCE DRIVER	Sheet	4/7
Module No	R752518	Index	6
PCB No	R780319	Rev	7
Date	25-02-1997	Drawn	JVDY
		Checked	GM

BARCO PROJECTION SYSTEMS



SIMULATORS >SHEET 7
GEOMETRY >SHEET 3
CORNERS >SHEET 4, 5 & 7
AXIS >SHEET 1, 2 & 7

BARCO

GEOMETRY

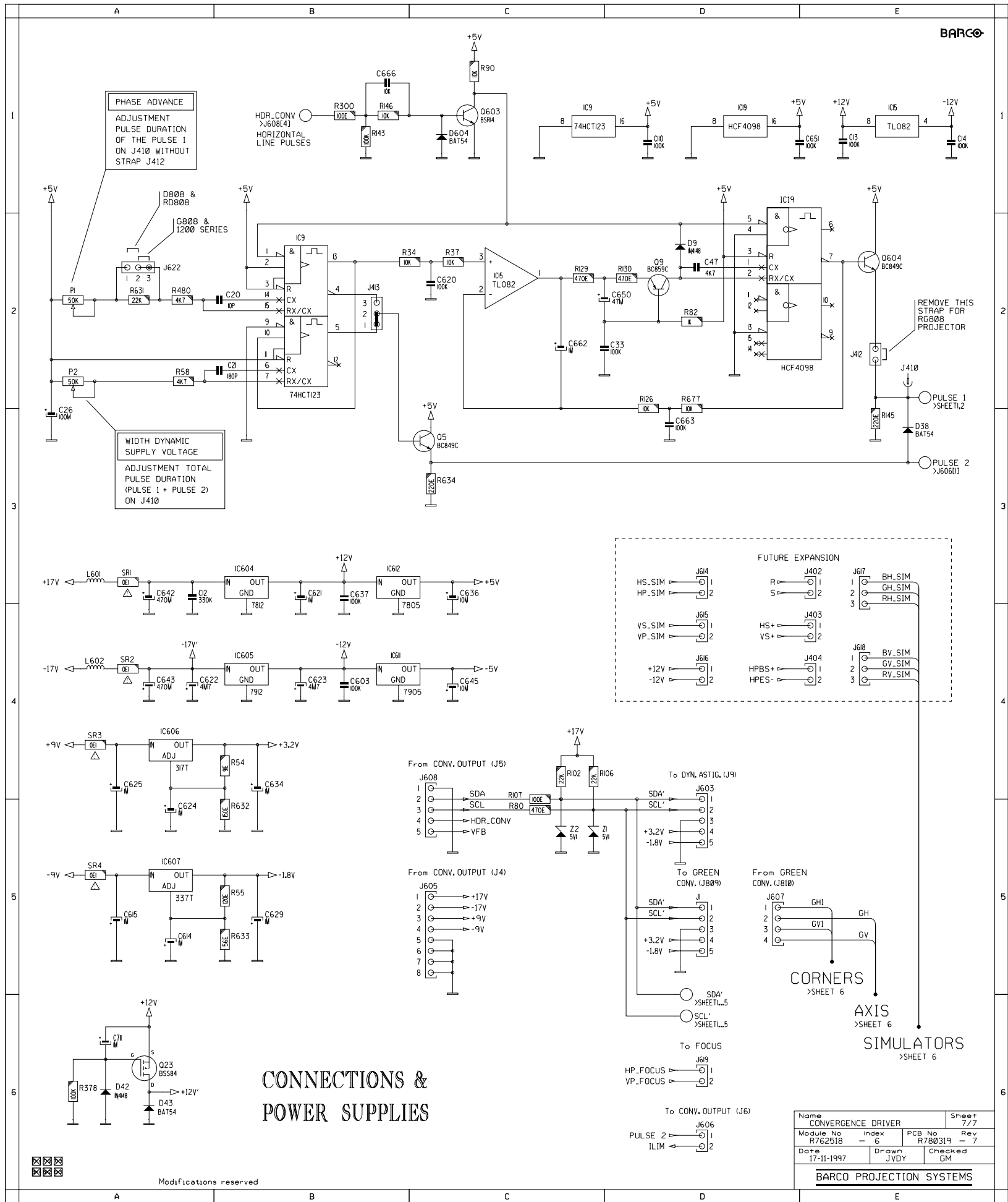
AXIS

SEAGULL CORRECTIONS & PRECORRECTIONS

CONVERGENCE SUMMING AMPLIFIERS

Name		Sheet	
CONVERGENCE DRIVER		6/7	
Module No	Index	PCB No	Rev
R752518	- 6	R780319	- 7
Date	Drawn	Checked	
25-02-1997	JVDY	GM	
BARCO PROJECTION SYSTEMS			

Modifications reserved

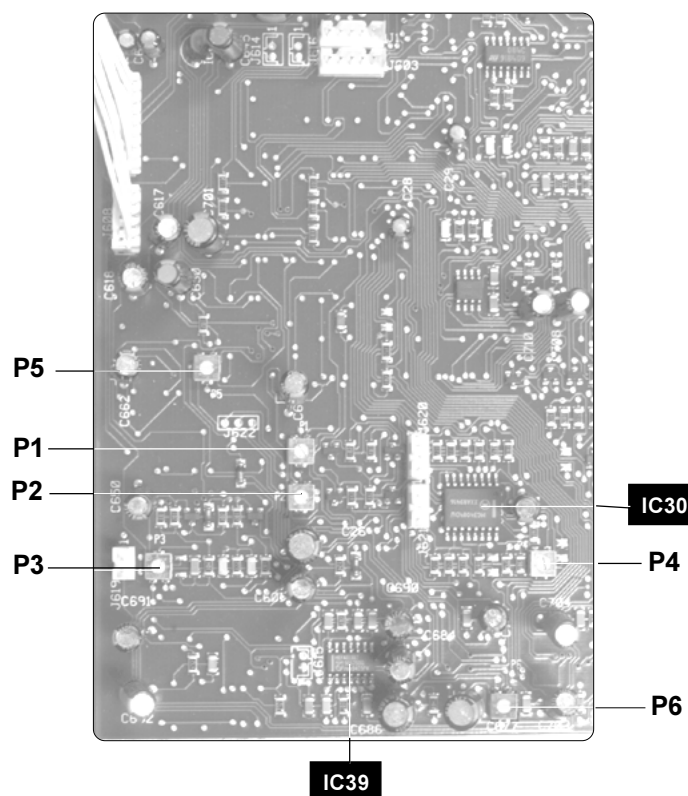


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C2	E	3	C463	F	2	IC13	G	1	IC604	F	4	R20	F	3	R207	I	5	R371	H	4
C3	F	3	C464	E	5	IC14	G	2	IC605	F	5	R21	F	1	R208	I	2	R372	H	2
C4	H	2	C465	E	4	IC15	D	3	IC606	F	6	R22	F	1	R209	I	2	R373	H	2
C5	H	2	C466	E	4	IC16	D	3	IC607	A	5	R23	F	4	R210	A	4	R374	H	2
C6	B	3	C467	A	5	IC17	E	1	IC608	B	4	R24	F	4	R211	F	1	R375	H	5
C7	B	3	C468	B	4	IC18	E	1	IC609	A	5	R25	F	1	R212	F	1	R376	H	5
C8	E	4	C469	F	4	IC19	E	1	IC610	A	5	R26	F	1	R213	F	1	R377	H	5
C9	G	3	C470	F	6	IC16	C	6	IC607	A	5	R30	F	4	R216	I	1	R379	H	1
C10	H	4	C471	H	2	IC16	C	6	IC608	A	5	R31	F	4	R217	I	1	R380	H	1
C11	F	4	C472	H	2	IC16	C	6	IC609	H	4	R32	F	4	R218	I	1	R381	H	1
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C13	E	1	C474	D	4	IC17	C	4	IC610	E	4	R34	B	2	R220	C	3	R383	E	4
C14	E	1	C475	D	4	IC17	C	6	IC610	G	3	R35	D	2	R221	B	4	R384	E	2
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C20	B	2	C481	B	3	IC19	D	1	IC613	B	3	R45	F	4	R229	H	4	R401	B	3
C21	B	2	C482	A	3	IC20	D	1	IC614	C	3	R46	F	1	R230	C	3	R402	B	3
C22	I	6	C483	A	4	IC20	D	4	IC613	F	1	R47	O	4	R231	C	3	R403	I	6
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C70	D	1	C531	E	1	IC30	A	3	IC620	A	4	R98	E	4	R279	C	4	R451	A	4
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C75	D	1	C536	E	1	IC30	A	3	IC620	A	4	R103	F	2	R284	F	2	R456	D	2
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Adjustment procedure

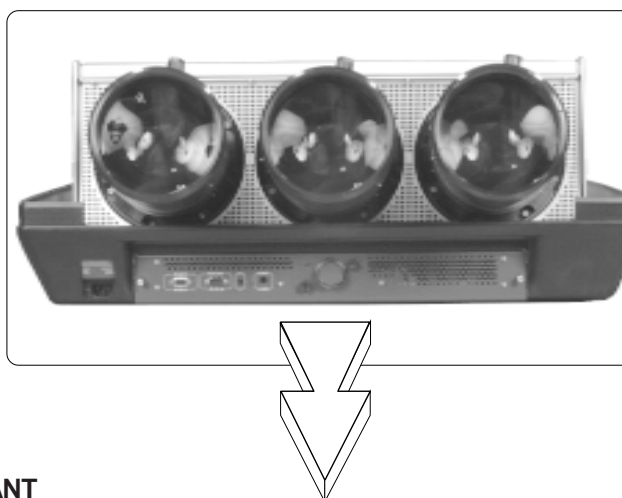
Adjustments

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)



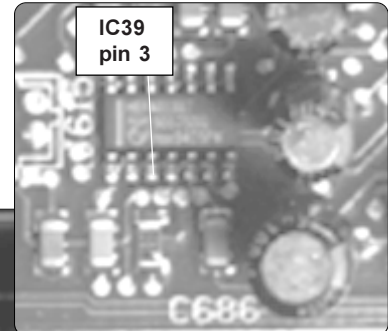
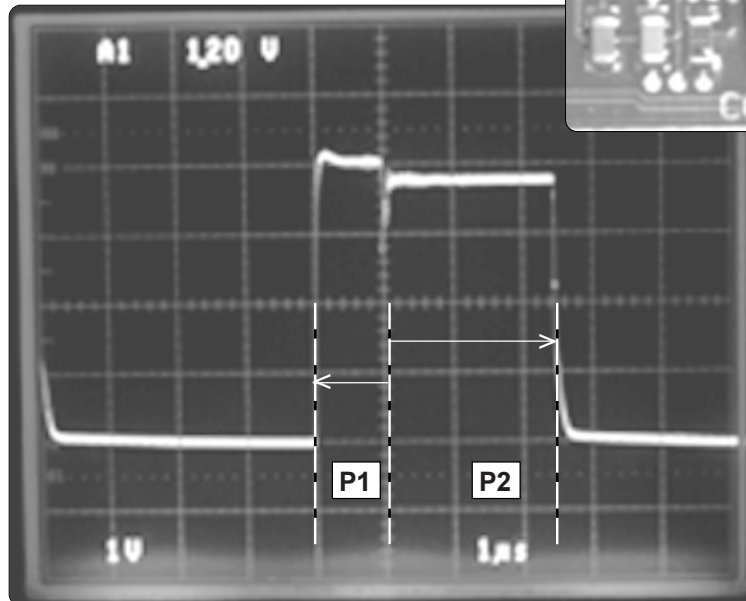
IMPORTANT

- 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 2.5us.



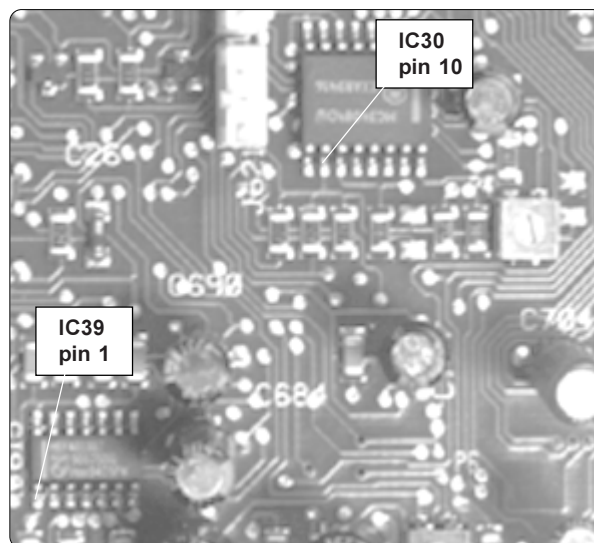
Adjustment of the potentiometers

P3: DC Offset switching level

P4: Hor-Par/Vert-Sawt DC Offset

P5: Clamping level Hor Parabola

measurement points for the adjustments

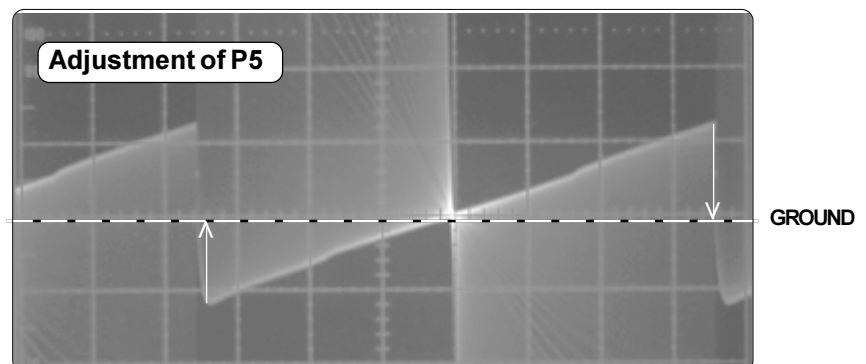
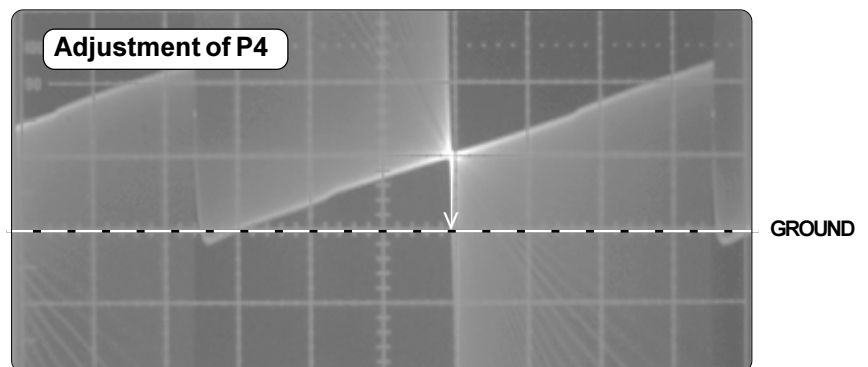
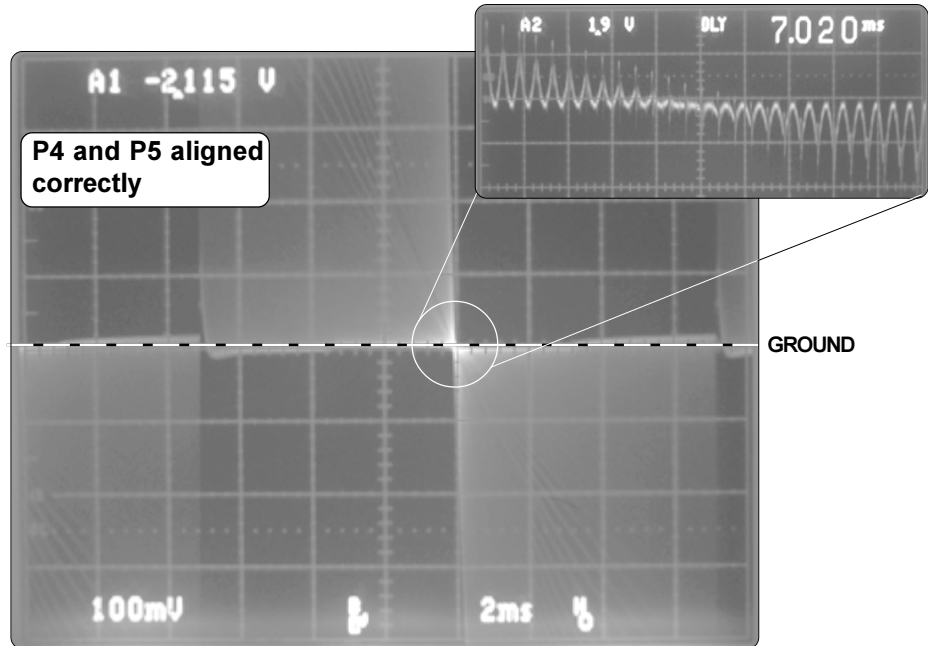


Adjustment of the potentiometer

P4: Hor-Par/Vert-Sawt DC Offset

P5: Clamping level Hor Parabola

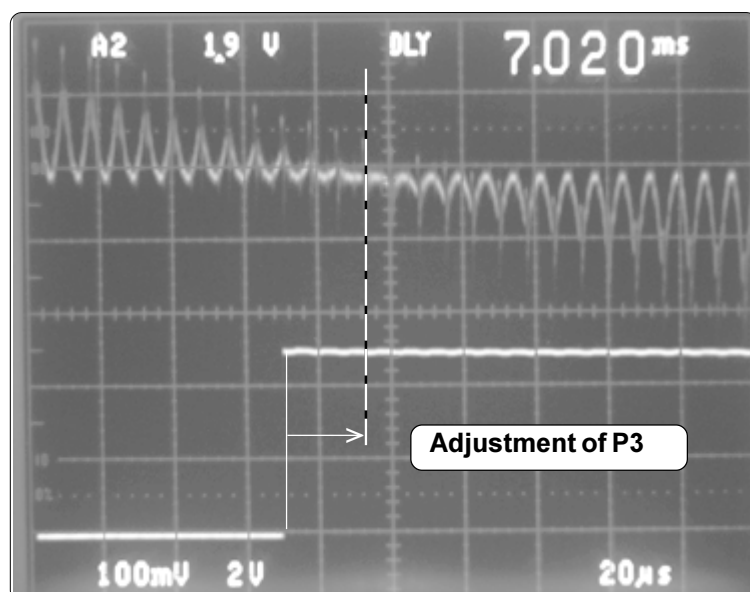
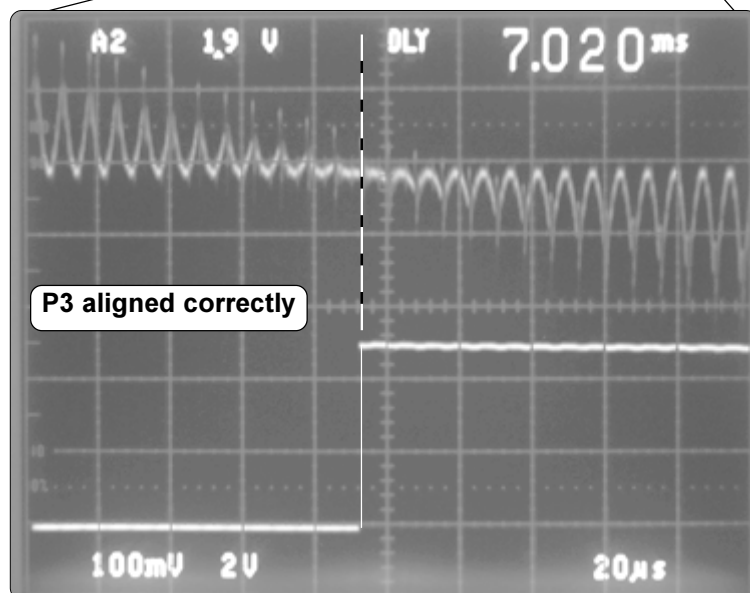
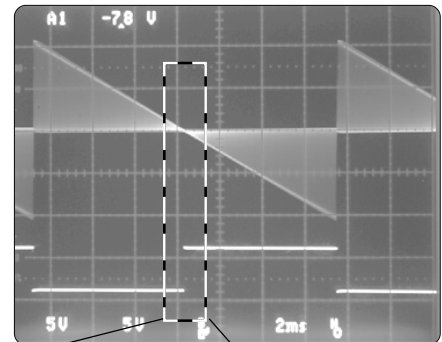
- Connect an oscilloscope to the pin 10 of the IC30.
- Adjust the potentiometer P4 until the DC Offset is at GROUND-level
- Adjust the potentiometer P5 until the clamping level of the Horizontal parabolas are at GROUND-level



Adjustment of the potentiometers P3: DC Offset switching level

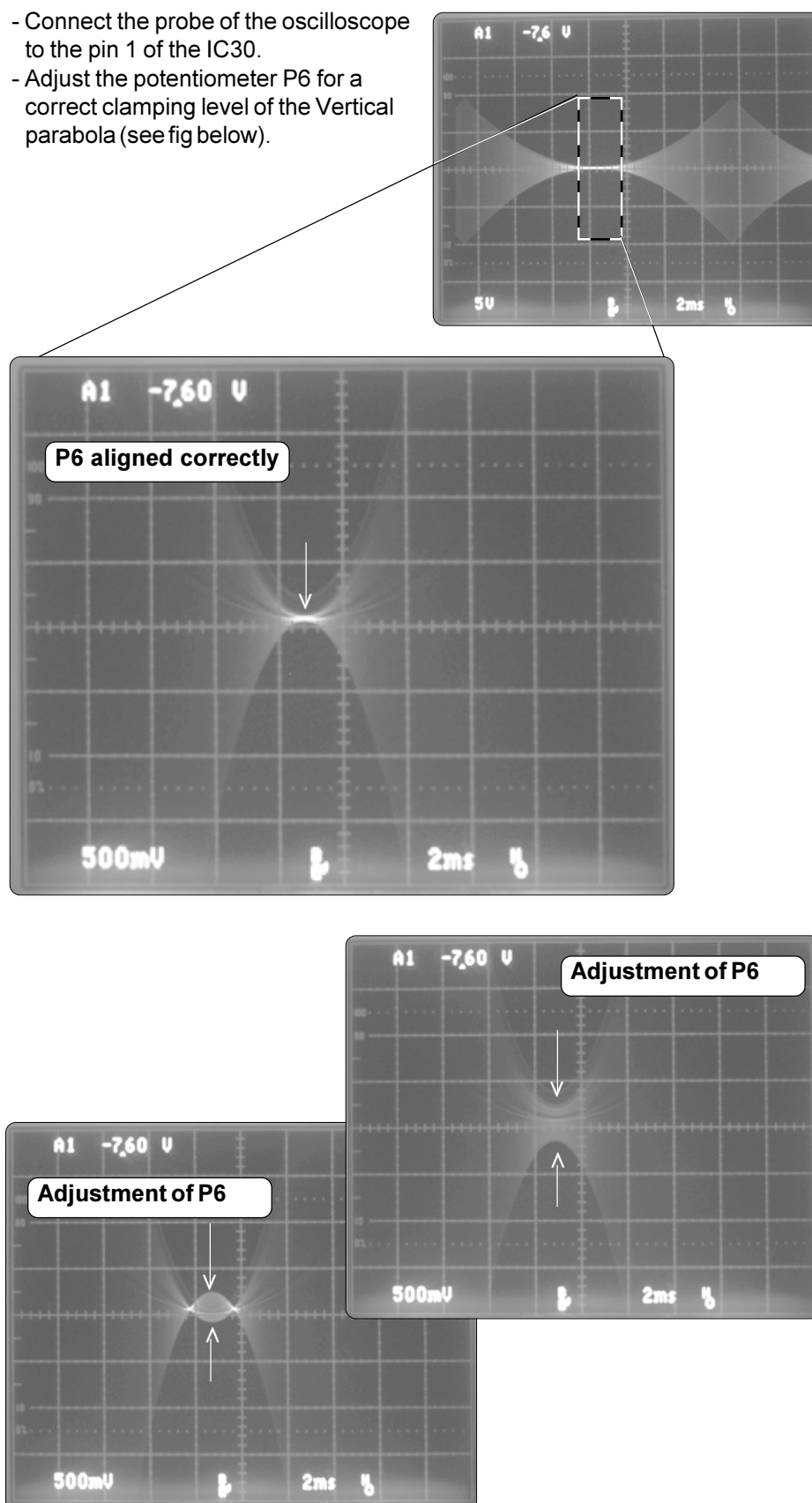
Attention: be sure that the input signal for adjustment operates on the highest used line frequency.

- 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 DRIVER module

GREEN Convergence module

R762518

R7625128

Parts listing Convergence module (Driver) 76 2518

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
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70	R3133921	JMD SHUNT F P2E1SNIRD	4	C 61	P210122	C# X7R MU 100N K 50 1206	1
	R34700802	SLVU GLCL OIL D 1,5RD 20	1	C 62	P210122	C# X7R MU 100N K 50 1206	1
20	R3631059	SCR Z933 M 3 X 8 SS	3	C 63	P210122	C# X7R MU 100N K 50 1206	1
60	R3631059	SCR Z933 M 3 X 8 SS	2	C 64	P210122	C# X7R MU 100N K 50 1206	1
40	R804674	HTSNA GEN SPG 1XM3 SH	1	C 65	P210122	C# X7R MU 100N K 50 1206	1
30	R804769	HTSNA GEN SPG 2XM3 SH	1	C 66	P210122	C# X7R MU 100N K 50 1206	1
80	R805954	HTSNC PJ56 G808 CNVDVR	1	C 67	P210122	C# X7R MU 100N K 50 1206	1
C 1	P210137	C# COG MU 100P J 50 1206	1	C 68	P210122	C# X7R MU 100N K 50 1206	1
C 2	P210122	C# X7R MU 100N K 50 1206	1	C 69	P210122	C# X7R MU 100N K 50 1206	1
C 3	P210122	C# X7R MU 100N K 50 1206	1	C 70	P210122	C# X7R MU 100N K 50 1206	1
C 5	P210122	C# X7R MU 100N K 50 1206	1	C 71	R111549	C EL RA 3M3M 50E2 85	1
C 6	P210122	C# X7R MU 100N K 50 1206	1	C 72	P210122	C# X7R MU 100N K 50 1206	1
C 7	P210095	C# X7R MU 330N M 50 1812	1	C 73	P210122	C# X7R MU 100N K 50 1206	1
C 8	P210122	C# X7R MU 100N K 50 1206	1	C 74	P210122	C# X7R MU 100N K 50 1206	1
C 9	P210122	C# X7R MU 100N K 50 1206	1	C 75	P210122	C# X7R MU 100N K 50 1206	1
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C 11	P210122	C# X7R MU 100N K 50 1206	1	C 77	P210122	C# X7R MU 100N K 50 1206	1
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C 14	P210122	C# X7R MU 100N K 50 1206	1	C 80	P210122	C# X7R MU 100N K 50 1206	1
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Convergence DRIVER module

GREEN Convergence module

R762518

R7625128

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
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C615	R111546	C EL RA 1M M 50E2 85		C708	R111476	C EL RA 47M M 25E2 85	1
C616	R111548	C EL RA 2M2M 50E2 85		C709	P210122	C# X7R MU 100N K 50 1206	1
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C636	R111531	C EL RA 10M M 35E2 85		D 42	P234099	D#4148 R DMMELF	1
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C638	P210122	C# X7R MU 100N K 50 1206	1	D604	P234055	D#BAT54 SCH SOT23	1
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C641	P210122	C# X7R MU 100N K 50 1206	1	I 2	P230653	U#BELLA 4 SOL28 P	1
C642	R111479	C EL RA 470M M 25E2 85	1	I 3	P230705	U#34084 MC SOL16 P	1
C643	R111479	C EL RA 470M M 25E2 85	1	I 4	P230203	U#084 TL SO14 P	1
C644	P210122	C# X7R MU 100N K 50 1206	1	I 5	P230768	U#5534 NE SO8 P	1
C645	R111531	C EL RA 10M M 35E2 85		I 6	P230653	U#BELLA 4 SOL28 P	1
C646	P210138	C# COG MU 10P J 50 1206	1	I 7	P230653	U#BELLA 4 SOL28 P	1

Convergence DRIVER module

GREEN Convergence module

R762518

R7625128

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
I 8	P230203	U#084 TL SO14 P	1	I620	P230203	U#084 TL SO14 P	1
I 9	P230073	U#74HCT123 SO16 I	1	I621	P230653	U#BELLA 4 SOL28 P	1
I 10	P230768	U#5534 NE SO8 P	1	I622	P230653	U#BELLA 4 SOL28 P	1
I 11	P230203	U#084 TL SO14 P	1	I623	P230203	U#084 TL SO14 P	1
I 12	P230030	U#4053 SO16 I	1	I624	P230653	U#BELLA 4 SOL28 P	1
I 13	P230653	U#BELLA 4 SOL28 P	1	I625	P230653	U#BELLA 4 SOL28 P	1
I 14	P230653	U#BELLA 4 SOL28 P	1	I626	P230203	U#084 TL SO14 P	1
I 15	P230293	U#082 TL SO8 P	1	J 1	R313925	J C T H MBT P 5 M2SN WH	1
I 16	P230028	U#393 LM SO8 P	1	J400	R3132862	J MD1 C MBT P 2 E1SN 6,7	1
I 17	P230203	U#084 TL SO14 P	1	J401	R3132862	J MD1 C MBT P 2 E1SN 6,7	1
I 18	P230768	U#5534 NE SO8 P	1	J402	R313922	J C T H MBT P 2 M2SN WH	1
I 19	P230451	U#4098 HCF SO16 I	1	J403	R313922	J C T H MBT P 2 M2SN WH	1
I 20	P231489	U#835 AD SO8 I	1	J404	R313922	J C T H MBT P 2 M2SN WH	1
I 21	P230653	U#BELLA 4 SOL28 P	1	J405	R313922	J C T H MBT P 2 M2SN WH	1
I 22	P230653	U#BELLA 4 SOL28 P	1	J406	R315310	J TAB1 MBT H2,8S0,5 F1	1
I 23	P230203	U#084 TL SO14 P	1	J407	R315310	J TAB1 MBT H2,8S0,5 F1	1
I 24	P230030	U#4053 SO16 I	1	J408	R315310	J TAB1 MBT H2,8S0,5 F1	1
I 25	P230768	U#5534 NE SO8 P	1	J409	R315310	J TAB1 MBT H2,8S0,5 F1	1
I 26	P230653	U#BELLA 4 SOL28 P	1	J410	R315310	J TAB1 MBT H2,8S0,5 F1	1
I 27	P230653	U#BELLA 4 SOL28 P	1	J411	R315310	J TAB1 MBT H2,8S0,5 F1	1
I 28	P230203	U#084 TL SO14 P	1	J412	R3132862	J MD1 C MBT P 2 E1SN 6,7	1
I 29	P230912	U#04 MLT SOL18 I	1	J413	R313286	J MO1 C MBT P 3 R1SN 7,5	1
I 30	P230705	U#34084 MC SOL16 P	1	J601	R313928	J C T H MBT P 8 M2SN WH	1
I 32	P230293	U#082 TL SO8 P	1	J602	R313928	J C T H MBT P 8 M2SN WH	1
I 33	P230768	U#5534 NE SO8 P	1	J603	R313925	J C T H MBT P 5 M2SN WH	1
I 35	P230653	U#BELLA 4 SOL28 P	1	J604	R313926	J C T H MBT P 6 M2SN WH	1
I 36	P230653	U#BELLA 4 SOL28 P	1	J605	R313928	J C T H MBT P 8 M2SN WH	1
I 37	P230203	U#084 TL SO14 P	1	J606	R313922	J C T H MBT P 2 M2SN WH	1
I 38	P231489	U#835 AD SO8 I	1	J607	R313924	J C T H MBT P 4 M2SN WH	1
I 39	P230034	U#4013 SO14 I	1	J608	R313925	J C T H MBT P 5 M2SN WH	1
I 40	P230768	U#5534 NE SO8 P	1	J609	R313928	J C T H MBT P 6 M2SN WH	1
I 41	P230203	U#084 TL SO14 P	1	J610	R313926	J C T H MBT P 6 M2SN WH	1
I 42	P230653	U#BELLA 4 SOL28 P	1	J611	R313928	J C T H MBT P 8 M2SN WH	1
I 43	P230653	U#BELLA 4 SOL28 P	1	J612	R313928	J C T H MBT P 8 M2SN WH	1
I 44	P230653	U#BELLA 4 SOL28 P	1	J613	R313928	J C T H MBT P 8 M2SN WH	1
I 45	P230203	U#084 TL SO14 P	1	J614	R313922	J C T H MBT P 2 M2SN WH	1
I 46	P230030	U#4053 SO16 I	1	J615	R313922	J C T H MBT P 2 M2SN WH	1
I400	P231479	U#542 DG SO16 I	1	J616	R313922	J C T H MBT P 2 M2SN WH	1
I401	P231479	U#542 DG SO16 I	1	J617	R313923	J C T H MBT P 3 M2SN WH	1
I402	P231479	U#542 DG SO16 I	1	J618	R313923	J C T H MBT P 3 M2SN WH	1
I403	P231479	U#542 DG SO16 I	1	J619	R313922	J C T H MBT P 2 M2SN WH	1
I404	P230912	U#04 MLT SOL18 I	1	J622	R313286	J MO1 C MBT P 3 R1SN 7,5	1
I405	P230203	U#084 TL SO14 P	1	L601	R34700802	SLVU GLCL OIL D 1,5RD 20	1
I406	P230653	U#BELLA 4 SOL28 P	1	L601	R774154	CHD**HRHOR	1
I407	P230203	U#084 TL SO14 P	1	L602	R774154	CHD**HRHOR	1
I408	P230293	U#082 TL SO8 P	1	P 1	P201393	R#TCE H 50K M 0W25 S4 TS	1
I409	P230653	U#BELLA 4 SOL28 P	1	P 2	P201393	R#TCE H 50K M 0W25 S4 TS	1
I410	P231527	U#360 LM SO8 P	1	P 3	P201393	R#TCE H 50K M 0W25 S4 TS	1
I601	P230653	U#BELLA 4 SOL28 P	1	P 4	P201393	R#TCE H 50K M 0W25 S4 TS	1
I602	P230653	U#BELLA 4 SOL28 P	1	P 5	P201393	R#TCE H 50K M 0W25 S4 TS	1
I603	P230203	U#084 TL SO14 P	1	P 6	P201393	R#TCE H 50K M 0W25 S4 TS	1
I604	R134002	U 7812 TO220 P	1	P400	P201393	R#TCE H 50K M 0W25 S4 TS	1
I605	R134016	U 7912 TO220 P	1	P401	P201393	R#TCE H 50K M 0W25 S4 TS	1
I606	R134026	U 317T LM TO220 P	1	P402	P201393	R#TCE H 50K M 0W25 S4 TS	1
I607	R134027	U 337T TO220 P	1	P403	P201393	R#TCE H 50K M 0W25 S4 TS	1
I608	P230653	U#BELLA 4 SOL28 P	1	P404	P201393	R#TCE H 50K M 0W25 S4 TS	1
I609	P230653	U#BELLA 4 SOL28 P	1	P405	P201393	R#TCE H 50K M 0W25 S4 TS	1
I610	P230203	U#084 TL SO14 P	1	P406	P201393	R#TCE H 50K M 0W25 S4 TS	1
I611	R134011	U 7905C TO220 P	1	P407	P201393	R#TCE H 50K M 0W25 S4 TS	1
I612	R134001	U 7805 TO220 P	1	P408	P201393	R#TCE H 50K M 0W25 S4 TS	1
I613	P230203	U#084 TL SO14 P	1	PC	R780319	PCB D700 CNV DVR	1
I614	P230203	U#084 TL SO14 P	1				
I615	P230653	U#BELLA 4 SOL28 P	1				
I616	P230653	U#BELLA 4 SOL28 P	1				
I617	P230203	U#084 TL SO14 P	1				
I618	P230653	U#BELLA 4 SOL28 P	1				
I619	P230653	U#BELLA 4 SOL28 P	1				

Convergence DRIVER module

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SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
Q 1	P232066	Q#BSR14 N SS SOT23	1	R 71	P200411	R# CE H 1K F 0W12 1206	1
Q 2	P232101	Q#BC859C P SS SOT23	1	R 72	P200411	R# CE H 1K F 0W12 1206	1
Q 5	P232004	Q#BC849C N SS SOT23	1	R 73	P200437	R# CE H 12K F 0W12 1206	1
Q 9	P232101	Q#BC859C P SS SOT23	1	R 75	P200435	R# CE H 10K F 0W12 1206	1
Q 19	P232101	Q#BC859C P SS SOT23	1	R 77	P200411	R# CE H 1K F 0W12 1206	1
Q 20	P232004	Q#BC849C N SS SOT23	1	R 78	P200437	R# CE H 12K F 0W12 1206	1
Q 21	P232101	Q#BC859C P SS SOT23	1	R 79	P200411	R# CE H 1K F 0W12 1206	1
Q 22	P232101	Q#BC859C P SS SOT23	1	R 80	P200403	R# CE H470E F 0W12 1206	1
Q 23	P232079	Q#BSS84 F SS SOT23	1	R 81	P200437	R# CE H 12K F 0W12 1206	1
Q603	P232066	Q#BSR14 N SS SOT23	1	R 82	P200411	R# CE H 1K F 0W12 1206	1
Q604	P232004	Q#BC849C N SS SOT23	1	R 83	P200451	R# CE H 47K F 0W12 1206	1
R 1	P200433	R# CE H 8K2 F 0W12 1206	1	R 84	P200451	R# CE H 47K F 0W12 1206	1
R 2	P200425	R# CE H 3K9 F 0W12 1206	1	R 85	P200451	R# CE H 47K F 0W12 1206	1
R 3	P200413	R# CE H 1K2 F 0W12 1206	1	R 86	P200435	R# CE H 10K F 0W12 1206	1
R 5	P200411	R# CE H 1K F 0W12 1206	1	R 87	P200435	R# CE H 10K F 0W12 1206	1
R 6	P200395	R# CE H220E F 0W12 1206	1	R 88	P200435	R# CE H 10K F 0W12 1206	1
R 7	P200411	R# CE H 1K F 0W12 1206	1	R 89	P200419	R# CE H 2K2 F 0W12 1206	1
R 10	P200427	R# CE H 4K7 F 0W12 1206	1	R 90	P200435	R# CE H 10K F 0W12 1206	1
R 12	P200427	R# CE H 4K7 F 0W12 1206	1	R 91	P200425	R# CE H 3K9 F 0W12 1206	1
R 14	P200411	R# CE H 1K F 0W12 1206	1	R 92	P200419	R# CE H 2K2 F 0W12 1206	1
R 15	P200439	R# CE H 15K F 0W12 1206	1	R 93	P200443	R# CE H 22K F 0W12 1206	1
R 16	P200411	R# CE H 1K F 0W12 1206	1	R 97	P200435	R# CE H 10K F 0W12 1206	1
R 17	P200429	R# CE H 5K6 F 0W12 1206	1	R 98	P200435	R# CE H 10K F 0W12 1206	1
R 18	P200429	R# CE H 5K6 F 0W12 1206	1	R 99	P200435	R# CE H 10K F 0W12 1206	1
R 19	P200423	R# CE H 3K3 F 0W12 1206	1	R100	P200423	R# CE H 3K3 F 0W12 1206	1
R 23	P200469	R# CE H270K F 0W12 1206	1	R102	P200443	R# CE H 22K F 0W12 1206	1
R 25	P200411	R# CE H 1K F 0W12 1206	1	R103	P200411	R# CE H 1K F 0W12 1206	1
R 26	P200411	R# CE H 1K F 0W12 1206	1	R104	P200411	R# CE H 1K F 0W12 1206	1
R 27	P200439	R# CE H 15K F 0W12 1206	1	R105	P200413	R# CE H 1K2 F 0W12 1206	1
R 28	P200439	R# CE H 15K F 0W12 1206	1	R106	P200443	R# CE H 22K F 0W12 1206	1
R 29	P200439	R# CE H 15K F 0W12 1206	1	R107	P200387	R# CE H100E F 0W12 1206	1
R 30	P200413	R# CE H 1K2 F 0W12 1206	1	R108	P200425	R# CE H 3K9 F 0W12 1206	1
R 31	P200411	R# CE H 1K F 0W12 1206	1	R109	P200419	R# CE H 2K2 F 0W12 1206	1
R 32	P200416	R# CE H 1K6 F 0W12 1206	1	R110	P200443	R# CE H 22K F 0W12 1206	1
R 33	P200429	R# CE H 5K6 F 0W12 1206	1	R111	P200425	R# CE H 3K9 F 0W12 1206	1
R 34	P200435	R# CE H 10K F 0W12 1206	1	R112	P200417	R# CE H 1K8 F 0W12 1206	1
R 35	P200459	R# CE H100K F 0W12 1206	1	R113	P200411	R# CE H 1K F 0W12 1206	1
R 36	P200411	R# CE H 1K F 0W12 1206	1	R114	P200419	R# CE H 2K2 F 0W12 1206	1
R 37	P200435	R# CE H 10K F 0W12 1206	1	R116	P200437	R# CE H 12K F 0W12 1206	1
R 42	P200437	R# CE H 12K F 0W12 1206	1	R118	P200437	R# CE H 12K F 0W12 1206	1
R 43	P200363	R# CE H 10E F 0W12 1206	1	R119	P200437	R# CE H 12K F 0W12 1206	1
R 44	P200437	R# CE H 12K F 0W12 1206	1	R120	P200419	R# CE H 2K2 F 0W12 1206	1
R 45	P200437	R# CE H 12K F 0W12 1206	1	R121	P200419	R# CE H 2K2 F 0W12 1206	1
R 46	P200435	R# CE H 10K F 0W12 1206	1	R122	P200439	R# CE H 15K F 0W12 1206	1
R 47	P200419	R# CE H 2K2 F 0W12 1206	1	R123	P200439	R# CE H 15K F 0W12 1206	1
R 48	P200419	R# CE H 2K2 F 0W12 1206	1	R124	P200439	R# CE H 15K F 0W12 1206	1
R 49	P200435	R# CE H 10K F 0W12 1206	1	R125	P200439	R# CE H 15K F 0W12 1206	1
R 50	P200435	R# CE H 10K F 0W12 1206	1	R126	P200435	R# CE H 10K F 0W12 1206	1
R 51	P200459	R# CE H100K F 0W12 1206	1	R127	P200423	R# CE H 3K3 F 0W12 1206	1
R 52	P200427	R# CE H 4K7 F 0W12 1206	1	R128	P200443	R# CE H 22K F 0W12 1206	1
R 54	P200386	R# CE H 91E F 0W12 1206	1	R129	P200403	R# CE H470E F 0W12 1206	1
R 55	P200389	R# CE H120E F 0W12 1206	1	R130	P200403	R# CE H470E F 0W12 1206	1
R 58	P200427	R# CE H 4K7 F 0W12 1206	1	R131	P200419	R# CE H 2K2 F 0W12 1206	1
R 59	P200423	R# CE H 3K3 F 0W12 1206	1	R132	P200439	R# CE H 15K F 0W12 1206	1
R 60	P200419	R# CE H 2K2 F 0W12 1206	1	R133	P200439	R# CE H 15K F 0W12 1206	1
R 61	P200419	R# CE H 2K2 F 0W12 1206	1	R134	P200439	R# CE H 15K F 0W12 1206	1
R 62	P200435	R# CE H 10K F 0W12 1206	1	R135	P200439	R# CE H 15K F 0W12 1206	1
R 63	P200435	R# CE H 10K F 0W12 1206	1	R136	P200419	R# CE H 2K2 F 0W12 1206	1
R 64	P200435	R# CE H 10K F 0W12 1206	1	R137	P200437	R# CE H 12K F 0W12 1206	1
R 65	P200437	R# CE H 12K F 0W12 1206	1	R138	P200437	R# CE H 12K F 0W12 1206	1
R 66	P200437	R# CE H 12K F 0W12 1206	1	R139	P200427	R# CE H 4K7 F 0W12 1206	1
R 67	P200419	R# CE H 2K2 F 0W12 1206	1	R140	P200417	R# CE H 1K8 F 0W12 1206	1
R 68	P200411	R# CE H 1K F 0W12 1206	1	R141	P200417	R# CE H 1K8 F 0W12 1206	1
R 69	P200411	R# CE H 1K F 0W12 1206	1	R143	P200459	R# CE H100K F 0W12 1206	1
R 70	P200437	R# CE H 12K F 0W12 1206	1	R145	P200395	R# CE H220E F 0W12 1206	1
				R146	P200435	R# CE H 10K F 0W12 1206	1
				R152	P200425	R# CE H 3K9 F 0W12 1206	1

Convergence DRIVER module

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SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
R153	P200417	R# CE H 1K8 F 0W12 1206	1	R243	P200427	R# CE H 4K7 F 0W12 1206	1
R154	P200411	R# CE H 1K F 0W12 1206	1	R244	P200419	R# CE H 2K2 F 0W12 1206	1
R157	P200435	R# CE H 10K F 0W12 1206	1	R245	P200419	R# CE H 2K2 F 0W12 1206	1
R160	P200435	R# CE H 10K F 0W12 1206	1	R246	P200433	R# CE H 8K2 F 0W12 1206	1
R161	P200427	R# CE H 4K7 F 0W12 1206	1	R247	P200419	R# CE H 2K2 F 0W12 1206	1
R162	P200427	R# CE H 4K7 F 0W12 1206	1	R248	P200419	R# CE H 2K2 F 0W12 1206	1
R163	P200411	R# CE H 1K F 0W12 1206	1	R249	P200411	R# CE H 1K F 0W12 1206	1
R164	P200419	R# CE H 2K2 F 0W12 1206	1	R250	P200411	R# CE H 1K F 0W12 1206	1
R165	P200439	R# CE H 15K F 0W12 1206	1	R251	P200415	R# CE H 1K5 F 0W12 1206	1
R166	P200439	R# CE H 15K F 0W12 1206	1	R252	P200411	R# CE H 1K F 0W12 1206	1
R167	P200439	R# CE H 15K F 0W12 1206	1	R253	P200441	R# CE H 18K F 0W12 1206	1
R168	P200439	R# CE H 15K F 0W12 1206	1	R254	P200441	R# CE H 18K F 0W12 1206	1
R170	P200435	R# CE H 10K F 0W12 1206	1	R255	P200441	R# CE H 18K F 0W12 1206	1
R173	P200419	R# CE H 2K2 F 0W12 1206	1	R256	P200441	R# CE H 18K F 0W12 1206	1
R174	P200439	R# CE H 15K F 0W12 1206	1	R257	P200469	R# CE H270K F 0W12 1206	1
R175	P200439	R# CE H 15K F 0W12 1206	1	R258	P200433	R# CE H 8K2 F 0W12 1206	1
R176	P200439	R# CE H 15K F 0W12 1206	1	R261	P200459	R# CE H100K F 0W12 1206	1
R177	P200439	R# CE H 15K F 0W12 1206	1	R262	P200411	R# CE H 1K F 0W12 1206	1
R178	P200411	R# CE H 1K F 0W12 1206	1	R264	P200435	R# CE H 10K F 0W12 1206	1
R179	P200427	R# CE H 4K7 F 0W12 1206	1	R266	P200435	R# CE H 10K F 0W12 1206	1
R180	P200427	R# CE H 4K7 F 0W12 1206	1	R267	P200435	R# CE H 10K F 0W12 1206	1
R181	P200423	R# CE H 3K3 F 0W12 1206	1	R268	P200441	R# CE H 18K F 0W12 1206	1
R182	P200417	R# CE H 1K8 F 0W12 1206	1	R269	P200441	R# CE H 18K F 0W12 1206	1
R183	P200417	R# CE H 1K8 F 0W12 1206	1	R270	P200441	R# CE H 18K F 0W12 1206	1
R184	P200471	R# CE H330K F 0W12 1206	1	R273	P200441	R# CE H 18K F 0W12 1206	1
R188	P200435	R# CE H 10K F 0W12 1206	1	R274	P200441	R# CE H 18K F 0W12 1206	1
R195	P200413	R# CE H 1K2 F 0W12 1206	1	R275	P200441	R# CE H 18K F 0W12 1206	1
R196	P200411	R# CE H 1K F 0W12 1206	1	R276	P200435	R# CE H 10K F 0W12 1206	1
R197	P200416	R# CE H 1K6 F 0W12 1206	1	R277	P200435	R# CE H 10K F 0W12 1206	1
R198	P200413	R# CE H 1K2 F 0W12 1206	1	R278	P200453	R# CE H 56K F 0W12 1206	1
R200	P200437	R# CE H 12K F 0W12 1206	1	R279	P200395	R# CE H220E F 0W12 1206	1
R202	P200427	R# CE H 4K7 F 0W12 1206	1	R280	P200419	R# CE H 2K2 F 0W12 1206	1
R203	P200427	R# CE H 4K7 F 0W12 1206	1	R281	P200433	R# CE H 8K2 F 0W12 1206	1
R204	P200419	R# CE H 2K2 F 0W12 1206	1	R282	P200433	R# CE H 8K2 F 0W12 1206	1
R205	P200419	R# CE H 2K2 F 0W12 1206	1	R283	P200435	R# CE H 10K F 0W12 1206	1
R206	P200439	R# CE H 15K F 0W12 1206	1	R284	P200419	R# CE H 2K2 F 0W12 1206	1
R207	P200439	R# CE H 15K F 0W12 1206	1	R285	P200419	R# CE H 2K2 F 0W12 1206	1
R208	P200439	R# CE H 15K F 0W12 1206	1	R286	P200411	R# CE H 1K F 0W12 1206	1
R209	P200439	R# CE H 15K F 0W12 1206	1	R287	P200443	R# CE H 22K F 0W12 1206	1
R210	P200427	R# CE H 4K7 F 0W12 1206	1	R288	P200459	R# CE H100K F 0W12 1206	1
R211	P200437	R# CE H 12K F 0W12 1206	1	R289	P200419	R# CE H 2K2 F 0W12 1206	1
R215	P200419	R# CE H 2K2 F 0W12 1206	1	R290	P200363	R# CE H 10E F 0W12 1206	1
R216	P200439	R# CE H 15K F 0W12 1206	1	R291	P200411	R# CE H 1K F 0W12 1206	1
R217	P200439	R# CE H 15K F 0W12 1206	1	R292	P200411	R# CE H 1K F 0W12 1206	1
R218	P200439	R# CE H 15K F 0W12 1206	1	R293	P200417	R# CE H 1K8 F 0W12 1206	1
R219	P200439	R# CE H 15K F 0W12 1206	1	R294	P200417	R# CE H 1K8 F 0W12 1206	1
R220	P200423	R# CE H 3K3 F 0W12 1206	1	R297	P200411	R# CE H 1K F 0W12 1206	1
R221	P200411	R# CE H 1K F 0W12 1206	1	R298	P200411	R# CE H 1K F 0W12 1206	1
R222	P200419	R# CE H 2K2 F 0W12 1206	1	R300	P200387	R# CE H100E F 0W12 1206	1
R223	P200427	R# CE H 4K7 F 0W12 1206	1	R302	P200411	R# CE H 1K F 0W12 1206	1
R224	P200427	R# CE H 4K7 F 0W12 1206	1	R303	P200461	R# CE H120K F 0W12 1206	1
R225	P200411	R# CE H 1K F 0W12 1206	1	R304	P200443	R# CE H 22K F 0W12 1206	1
R228	P200427	R# CE H 4K7 F 0W12 1206	1	R305	P200443	R# CE H 22K F 0W12 1206	1
R229	P200417	R# CE H 1K8 F 0W12 1206	1	R306	P200387	R# CE H100E F 0W12 1206	1
R230	P200417	R# CE H 1K8 F 0W12 1206	1	R307	P200463	R# CE H150K F 0W12 1206	1
R231	P200443	R# CE H 22K F 0W12 1206	1	R308	P200411	R# CE H 1K F 0W12 1206	1
R232	P200459	R# CE H100K F 0W12 1206	1	R309	P200403	R# CE H470E F 0W12 1206	1
R233	P200435	R# CE H 10K F 0W12 1206	1	R310	P200387	R# CE H100E F 0W12 1206	1
R234	P200459	R# CE H100K F 0W12 1206	1	R311	P200403	R# CE H470E F 0W12 1206	1
R235	P200435	R# CE H 10K F 0W12 1206	1	R312	P200387	R# CE H100E F 0W12 1206	1
R236	P200445	R# CE H 27K F 0W12 1206	1	R313	P200403	R# CE H470E F 0W12 1206	1
R237	P200423	R# CE H 3K3 F 0W12 1206	1	R314	P200387	R# CE H100E F 0W12 1206	1
R238	P200363	R# CE H 10E F 0W12 1206	1	R315	P200403	R# CE H470E F 0W12 1206	1
R239	P200437	R# CE H 12K F 0W12 1206	1	R316	P200387	R# CE H100E F 0W12 1206	1
R240	P200427	R# CE H 4K7 F 0W12 1206	1	R317	P200363	R# CE H 10E F 0W12 1206	1
R241	P200363	R# CE H 10E F 0W12 1206	1	R318	P200463	R# CE H150K F 0W12 1206	1
R242	P200437	R# CE H 12K F 0W12 1206	1				

Convergence DRIVER module

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SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
R319	P200411	R# CE H 1K F 0W12 1206	1	R405	P200469	R# CE H270K F 0W12 1206	1
R320	P200411	R# CE H 1K F 0W12 1206	1	R406	P200469	R# CE H270K F 0W12 1206	1
R321	P200443	R# CE H 22K F 0W12 1206	1	R407	P200469	R# CE H270K F 0W12 1206	1
R322	P200465	R# CE H180K F 0W12 1206	1	R408	P200469	R# CE H270K F 0W12 1206	1
R325	P200363	R# CE H 10E F 0W12 1206	1	R409	P200471	R# CE H330K F 0W12 1206	1
R326	P200429	R# CE H 5K6 F 0W12 1206	1	R410	P200443	R# CE H 22K F 0W12 1206	1
R327	P200435	R# CE H 10K F 0W12 1206	1	R411	P200431	R# CE H 6K8 F 0W12 1206	1
R328	P200425	R# CE H 3K9 F 0W12 1206	1	R412	P200417	R# CE H 1K8 F 0W12 1206	1
R329	P200363	R# CE H 10E F 0W12 1206	1	R413	P200435	R# CE H 10K F 0W12 1206	1
R330	P200435	R# CE H 10K F 0W12 1206	1	R414	P200443	R# CE H 22K F 0W12 1206	1
R331	P200435	R# CE H 10K F 0W12 1206	1	R415	P200431	R# CE H 6K8 F 0W12 1206	1
R332	P200425	R# CE H 3K9 F 0W12 1206	1	R416	P200417	R# CE H 1K8 F 0W12 1206	1
R333	P200435	R# CE H 10K F 0W12 1206	1	R417	P200435	R# CE H 10K F 0W12 1206	1
R334	P200403	R# CE H470E F 0W12 1206	1	R418	P200411	R# CE H 1K F 0W12 1206	1
R335	P200387	R# CE H100E F 0W12 1206	1	R419	P200411	R# CE H 1K F 0W12 1206	1
R336	P200403	R# CE H470E F 0W12 1206	1	R420	P200411	R# CE H 1K F 0W12 1206	1
R337	P200387	R# CE H100E F 0W12 1206	1	R421	P200411	R# CE H 1K F 0W12 1206	1
R338	P200403	R# CE H470E F 0W12 1206	1	R422	P200411	R# CE H 1K F 0W12 1206	1
R339	P200387	R# CE H100E F 0W12 1206	1	R423	P200411	R# CE H 1K F 0W12 1206	1
R340	P200403	R# CE H470E F 0W12 1206	1	R424	P200403	R# CE H470E F 0W12 1206	1
R341	P200387	R# CE H100E F 0W12 1206	1	R425	P200387	R# CE H100E F 0W12 1206	1
R342	P200403	R# CE H470E F 0W12 1206	1	R429	P200449	R# CE H 39K F 0W12 1206	1
R343	P200387	R# CE H100E F 0W12 1206	1	R430	P200449	R# CE H 39K F 0W12 1206	1
R344	P200403	R# CE H470E F 0W12 1206	1	R431	P200449	R# CE H 39K F 0W12 1206	1
R345	P200387	R# CE H100E F 0W12 1206	1	R432	P200435	R# CE H 10K F 0W12 1206	1
R346	P200403	R# CE H470E F 0W12 1206	1	R433	P200435	R# CE H 10K F 0W12 1206	1
R347	P200387	R# CE H100E F 0W12 1206	1	R434	P200435	R# CE H 10K F 0W12 1206	1
R348	P200403	R# CE H470E F 0W12 1206	1	R438	P200443	R# CE H 22K F 0W12 1206	1
R349	P200387	R# CE H100E F 0W12 1206	1	R439	P200447	R# CE H 33K F 0W12 1206	1
R350	P200403	R# CE H470E F 0W12 1206	1	R440	P200443	R# CE H 22K F 0W12 1206	1
R351	P200387	R# CE H100E F 0W12 1206	1	R441	P200427	R# CE H 4K7 F 0W12 1206	1
R352	P200403	R# CE H470E F 0W12 1206	1	R442	P200411	R# CE H 1K F 0W12 1206	1
R353	P200387	R# CE H100E F 0W12 1206	1	R443	P200411	R# CE H 1K F 0W12 1206	1
R354	P200403	R# CE H470E F 0W12 1206	1	R444	P200411	R# CE H 1K F 0W12 1206	1
R355	P200387	R# CE H100E F 0W12 1206	1	R445	P200411	R# CE H 1K F 0W12 1206	1
R360	P200403	R# CE H470E F 0W12 1206	1	R446	P200403	R# CE H470E F 0W12 1206	1
R361	P200387	R# CE H100E F 0W12 1206	1	R447	P200387	R# CE H100E F 0W12 1206	1
R362	P200403	R# CE H470E F 0W12 1206	1	R448	P200443	R# CE H 22K F 0W12 1206	1
R363	P200387	R# CE H100E F 0W12 1206	1	R449	P200447	R# CE H 33K F 0W12 1206	1
R364	P200403	R# CE H470E F 0W12 1206	1	R450	P200411	R# CE H 1K F 0W12 1206	1
R365	P200387	R# CE H100E F 0W12 1206	1	R451	P200411	R# CE H 1K F 0W12 1206	1
R366	P200403	R# CE H470E F 0W12 1206	1	R452	P200427	R# CE H 4K7 F 0W12 1206	1
R367	P200387	R# CE H100E F 0W12 1206	1	R453	P200427	R# CE H 4K7 F 0W12 1206	1
R368	P200403	R# CE H470E F 0W12 1206	1	R454	P200429	R# CE H 5K6 F 0W12 1206	1
R369	P200387	R# CE H100E F 0W12 1206	1	R455	P200429	R# CE H 5K6 F 0W12 1206	1
R370	P200403	R# CE H470E F 0W12 1206	1	R456	P200471	R# CE H330K F 0W12 1206	1
R371	P200387	R# CE H100E F 0W12 1206	1	R457	P200471	R# CE H330K F 0W12 1206	1
R372	P200403	R# CE H470E F 0W12 1206	1	R460	P200470	R# CE H300K F 0W12 1206	1
R373	P200387	R# CE H100E F 0W12 1206	1	R461	P200435	R# CE H 10K F 0W12 1206	1
R374	P200403	R# CE H470E F 0W12 1206	1	R465	P200339	R# CE H 1E F 0W12 1206	1
R375	P200387	R# CE H100E F 0W12 1206	1	R466	P200407	R# CE H680E F 0W12 1206	1
R378	P200459	R# CE H100K F 0W12 1206	1	R467	P200407	R# CE H680E F 0W12 1206	1
R379	P200403	R# CE H470E F 0W12 1206	1	R468	P200413	R# CE H 1K2 F 0W12 1206	1
R380	P200387	R# CE H100E F 0W12 1206	1	R469	P200407	R# CE H680E F 0W12 1206	1
R381	P200403	R# CE H470E F 0W12 1206	1	R470	P200407	R# CE H680E F 0W12 1206	1
R382	P200387	R# CE H100E F 0W12 1206	1	R471	P200407	R# CE H680E F 0W12 1206	1
R383	P200363	R# CE H 10E F 0W12 1206	1	R472	P200407	R# CE H680E F 0W12 1206	1
R384	P200363	R# CE H 10E F 0W12 1206	1	R473	P200407	R# CE H680E F 0W12 1206	1
R385	P200363	R# CE H 10E F 0W12 1206	1	R474	P200407	R# CE H680E F 0W12 1206	1
R386	P200363	R# CE H 10E F 0W12 1206	1	R475	P200407	R# CE H680E F 0W12 1206	1
R387	P200363	R# CE H 10E F 0W12 1206	1	R476	P200407	R# CE H680E F 0W12 1206	1
R388	P200363	R# CE H 10E F 0W12 1206	1	R477	P200407	R# CE H680E F 0W12 1206	1
R400	P200483	R# CE H 1M F 0W12 1206	1	R478	P200407	R# CE H680E F 0W12 1206	1
R401	P200407	R# CE H680E F 0W12 1206	1	R480	P200427	R# CE H 4K7 F 0W12 1206	1
R402	P200412	R# CE H 1K1 F 0W12 1206	1	R601	P200433	R# CE H 8K2 F 0W12 1206	1
R403	P200469	R# CE H270K F 0W12 1206	1	R602	P200437	R# CE H 12K F 0W12 1206	1
R404	P200469	R# CE H270K F 0W12 1206	1	R604	P200423	R# CE H 3K3 F 0W12 1206	1

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SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
R605	P200423	R# CE H 3K3 F 0W12 1206	1	R675	P200419	R# CE H 2K2 F 0W12 1206	1
R606	P200423	R# CE H 3K3 F 0W12 1206	1	R676	P200437	R# CE H 12K F 0W12 1206	1
R607	P200411	R# CE H 1K F 0W12 1206	1	R677	P200435	R# CE H 10K F 0W12 1206	1
R608	P200419	R# CE H 2K2 F 0W12 1206	1	R678	P200419	R# CE H 2K2 F 0W12 1206	1
R609	P200411	R# CE H 1K F 0W12 1206	1	R679	P200419	R# CE H 2K2 F 0W12 1206	1
R610	P200411	R# CE H 1K F 0W12 1206	1	R680	P200429	R# CE H 5K6 F 0W12 1206	1
R611	P200435	R# CE H 10K F 0W12 1206	1	R681	P200429	R# CE H 5K6 F 0W12 1206	1
R612	P200411	R# CE H 1K F 0W12 1206	1	R682	P200419	R# CE H 2K2 F 0W12 1206	1
R613	P200411	R# CE H 1K F 0W12 1206	1	R683	P200429	R# CE H 5K6 F 0W12 1206	1
R614	P200435	R# CE H 10K F 0W12 1206	1	R684	P200429	R# CE H 5K6 F 0W12 1206	1
R615	P200363	R# CE H 10E F 0W12 1206	1	R685	P200419	R# CE H 2K2 F 0W12 1206	1
R616	P200439	R# CE H 15K F 0W12 1206	1	R686	P200439	R# CE H 15K F 0W12 1206	1
R617	P200439	R# CE H 15K F 0W12 1206	1	R687	P200439	R# CE H 15K F 0W12 1206	1
R618	P200435	R# CE H 10K F 0W12 1206	1	R688	P200439	R# CE H 15K F 0W12 1206	1
R619	P200435	R# CE H 10K F 0W12 1206	1	R689	P200439	R# CE H 15K F 0W12 1206	1
R620	P200439	R# CE H 15K F 0W12 1206	1	R690	P200439	R# CE H 15K F 0W12 1206	1
R621	P200439	R# CE H 15K F 0W12 1206	1	R691	P200439	R# CE H 15K F 0W12 1206	1
R622	P200429	R# CE H 5K6 F 0W12 1206	1	R692	P200439	R# CE H 15K F 0W12 1206	1
R623	P200429	R# CE H 5K6 F 0W12 1206	1	R693	P200439	R# CE H 15K F 0W12 1206	1
R624	P200423	R# CE H 3K3 F 0W12 1206	1	R694	P200411	R# CE H 1K F 0W12 1206	1
R625	P200419	R# CE H 2K2 F 0W12 1206	1	R695	P200419	R# CE H 2K2 F 0W12 1206	1
R626	P200419	R# CE H 2K2 F 0W12 1206	1	R696	P200419	R# CE H 2K2 F 0W12 1206	1
R627	P200429	R# CE H 5K6 F 0W12 1206	1	R697	P200419	R# CE H 2K2 F 0W12 1206	1
R628	P200429	R# CE H 5K6 F 0W12 1206	1	R698	P200411	R# CE H 1K F 0W12 1206	1
R629	P200435	R# CE H 10K F 0W12 1206	1	R699	P200419	R# CE H 2K2 F 0W12 1206	1
R630	P200419	R# CE H 2K2 F 0W12 1206	1	R700	P200419	R# CE H 2K2 F 0W12 1206	1
R631	P200443	R# CE H 22K F 0W12 1206	1	R701	P200419	R# CE H 2K2 F 0W12 1206	1
R632	P200391	R# CE H150E F 0W12 1206	1	R702	P200439	R# CE H 15K F 0W12 1206	1
R633	P200381	R# CE H 56E F 0W12 1206	1	R703	P200439	R# CE H 15K F 0W12 1206	1
R634	P200395	R# CE H220E F 0W12 1206	1	R704	P200439	R# CE H 15K F 0W12 1206	1
R635	P200429	R# CE H 5K6 F 0W12 1206	1	R705	P200439	R# CE H 15K F 0W12 1206	1
R636	P200429	R# CE H 5K6 F 0W12 1206	1	R706	P200439	R# CE H 15K F 0W12 1206	1
R637	P200419	R# CE H 2K2 F 0W12 1206	1	R707	P200439	R# CE H 15K F 0W12 1206	1
R638	P200419	R# CE H 2K2 F 0W12 1206	1	R708	P200439	R# CE H 15K F 0W12 1206	1
R639	P200435	R# CE H 10K F 0W12 1206	1	R709	P200439	R# CE H 15K F 0W12 1206	1
R640	P200435	R# CE H 10K F 0W12 1206	1	R711	P200419	R# CE H 2K2 F 0W12 1206	1
R641	P200435	R# CE H 10K F 0W12 1206	1	R712	P200419	R# CE H 2K2 F 0W12 1206	1
R642	P200435	R# CE H 10K F 0W12 1206	1	R713	P200419	R# CE H 2K2 F 0W12 1206	1
R643	P200435	R# CE H 10K F 0W12 1206	1	R714	P200419	R# CE H 2K2 F 0W12 1206	1
R644	P200435	R# CE H 10K F 0W12 1206	1	R716	P200419	R# CE H 2K2 F 0W12 1206	1
R645	P200435	R# CE H 10K F 0W12 1206	1	R717	P200419	R# CE H 2K2 F 0W12 1206	1
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R647	P200435	R# CE H 10K F 0W12 1206	1	R719	P200419	R# CE H 2K2 F 0W12 1206	1
R648	P200411	R# CE H 1K F 0W12 1206	1	R720	P200419	R# CE H 2K2 F 0W12 1206	1
R649	P200411	R# CE H 1K F 0W12 1206	1	R721	P200439	R# CE H 15K F 0W12 1206	1
R650	P200429	R# CE H 5K6 F 0W12 1206	1	R722	P200439	R# CE H 15K F 0W12 1206	1
R651	P200429	R# CE H 5K6 F 0W12 1206	1	R723	P200439	R# CE H 15K F 0W12 1206	1
R652	P200411	R# CE H 1K F 0W12 1206	1	R724	P200439	R# CE H 15K F 0W12 1206	1
R653	P200429	R# CE H 5K6 F 0W12 1206	1	R725	P200439	R# CE H 15K F 0W12 1206	1
R654	P200411	R# CE H 1K F 0W12 1206	1	R726	P200439	R# CE H 15K F 0W12 1206	1
R655	P200429	R# CE H 5K6 F 0W12 1206	1	R727	P200439	R# CE H 15K F 0W12 1206	1
R656	P200451	R# CE H 47K F 0W12 1206	1	R728	P200439	R# CE H 15K F 0W12 1206	1
R657	P200451	R# CE H 47K F 0W12 1206	1	R729	P200435	R# CE H 10K F 0W12 1206	1
R658	P200451	R# CE H 47K F 0W12 1206	1	R730	P200415	R# CE H 1K5 F 0W12 1206	1
R659	P200427	R# CE H 4K7 F 0W12 1206	1	R731	P200426	R# CE H 4K3 F 0W12 1206	1
R660	P200427	R# CE H 4K7 F 0W12 1206	1	R732	P200435	R# CE H 10K F 0W12 1206	1
R661	P200427	R# CE H 4K7 F 0W12 1206	1	R733	P200415	R# CE H 1K5 F 0W12 1206	1
R662	P200425	R# CE H 3K9 F 0W12 1206	1	R734	P200427	R# CE H 4K7 F 0W12 1206	1
R663	P200419	R# CE H 2K2 F 0W12 1206	1	R735	P200419	R# CE H 2K2 F 0W12 1206	1
R664	P200437	R# CE H 12K F 0W12 1206	1	R736	P200423	R# CE H 3K3 F 0W12 1206	1
R665	P200437	R# CE H 12K F 0W12 1206	1	R737	P200423	R# CE H 3K3 F 0W12 1206	1
R666	P200419	R# CE H 2K2 F 0W12 1206	1	R738	P200419	R# CE H 2K2 F 0W12 1206	1
R670	P200427	R# CE H 4K7 F 0W12 1206	1	R739	P200435	R# CE H 10K F 0W12 1206	1
R671	P200427	R# CE H 4K7 F 0W12 1206	1	R740	P200441	R# CE H 18K F 0W12 1206	1
R672	P200427	R# CE H 4K7 F 0W12 1206	1	R741	P200441	R# CE H 18K F 0W12 1206	1
R673	P200425	R# CE H 3K9 F 0W12 1206	1	R742	P200435	R# CE H 10K F 0W12 1206	1
R674	P200419	R# CE H 2K2 F 0W12 1206	1	R743	P200419	R# CE H 2K2 F 0W12 1206	1

Convergence DRIVER module


GREEN Convergence module

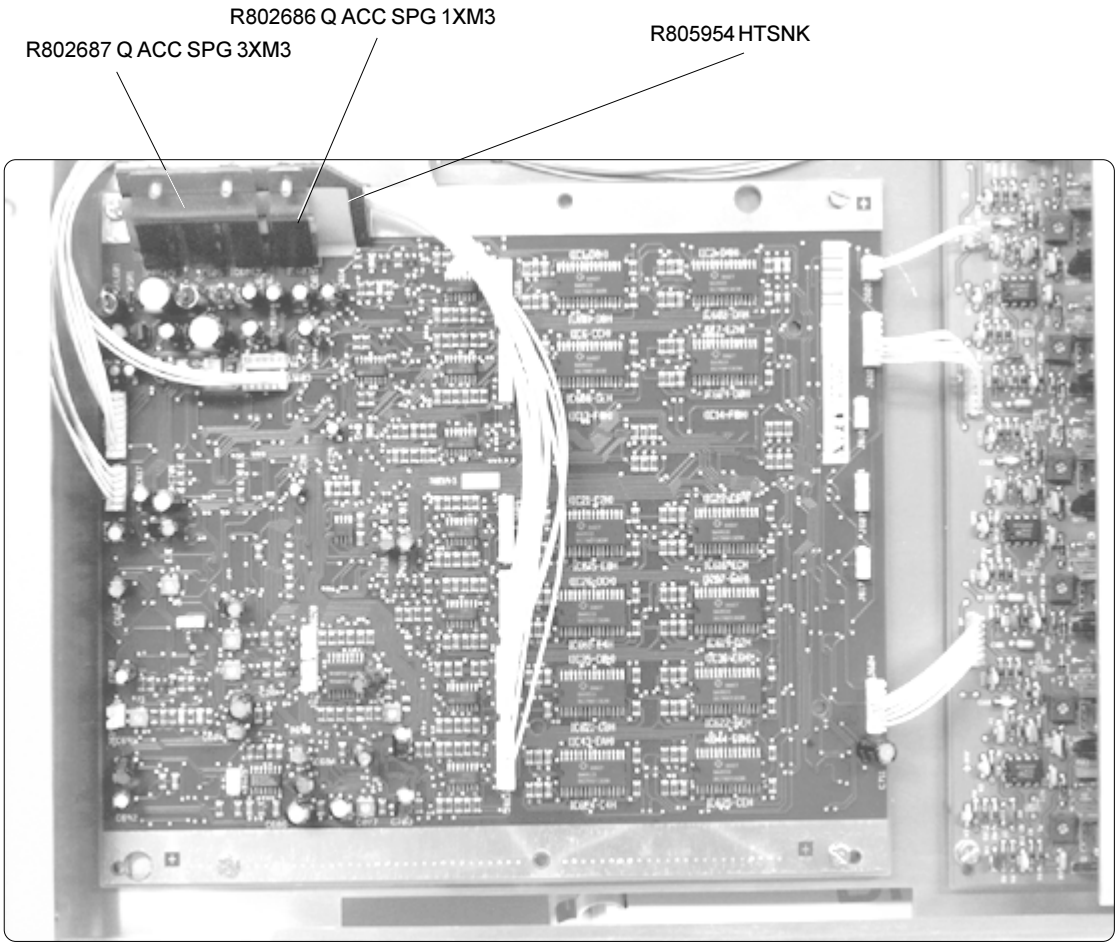
R762518

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SIT.	ITEM NO.	DESCRIPTION	QUANTITY
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R800	P200403	R# CE H470E F 0W12 1206	1
R801	P200387	R# CE H100E F 0W12 1206	1
R802	P200403	R# CE H470E F 0W12 1206	1
R803	P200387	R# CE H100E F 0W12 1206	1
SR 1	R1001909	R CFFV E1 K 0W4 E1	1
SR 2	R1001909	R CFFV E1 K 0W4 E1	1
SR 3	R1001909	R CFFV E1 K 0W4 E1	1
SR 4	R1001909	R CFFV E1 K 0W4 E1	1
Z 1	P234127	D#ZEN 5V1 0W5 C DMMELF	1
Z 2	P234127	D#ZEN 5V1 0W5 C DMMELF	1

PRODUCT SAFETY NOTICE

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



Convergence DRIVER module

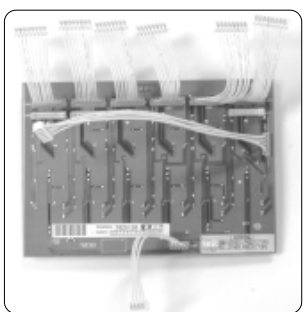
GREEN Convergence module

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Mounting guidelines for the GREEN convergence module R7625128

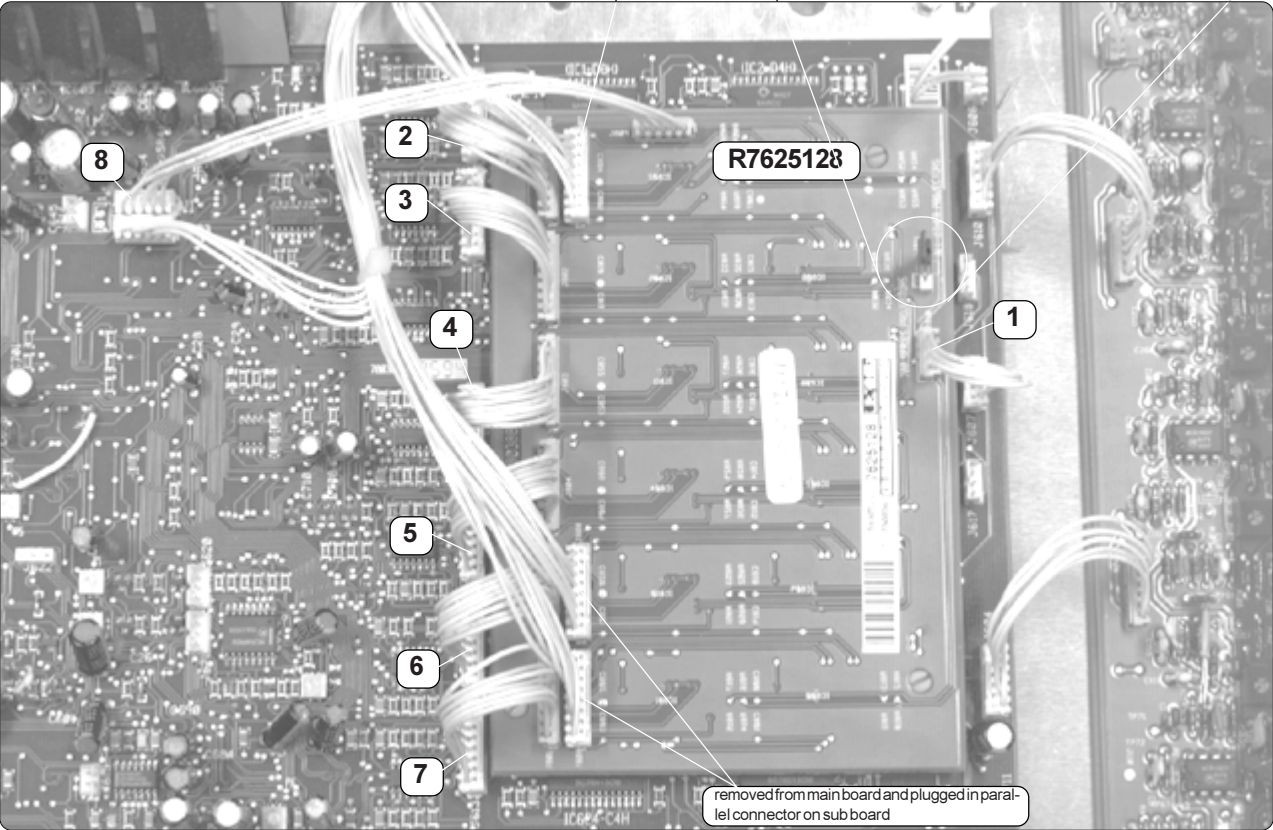
Green convergence module R7625128

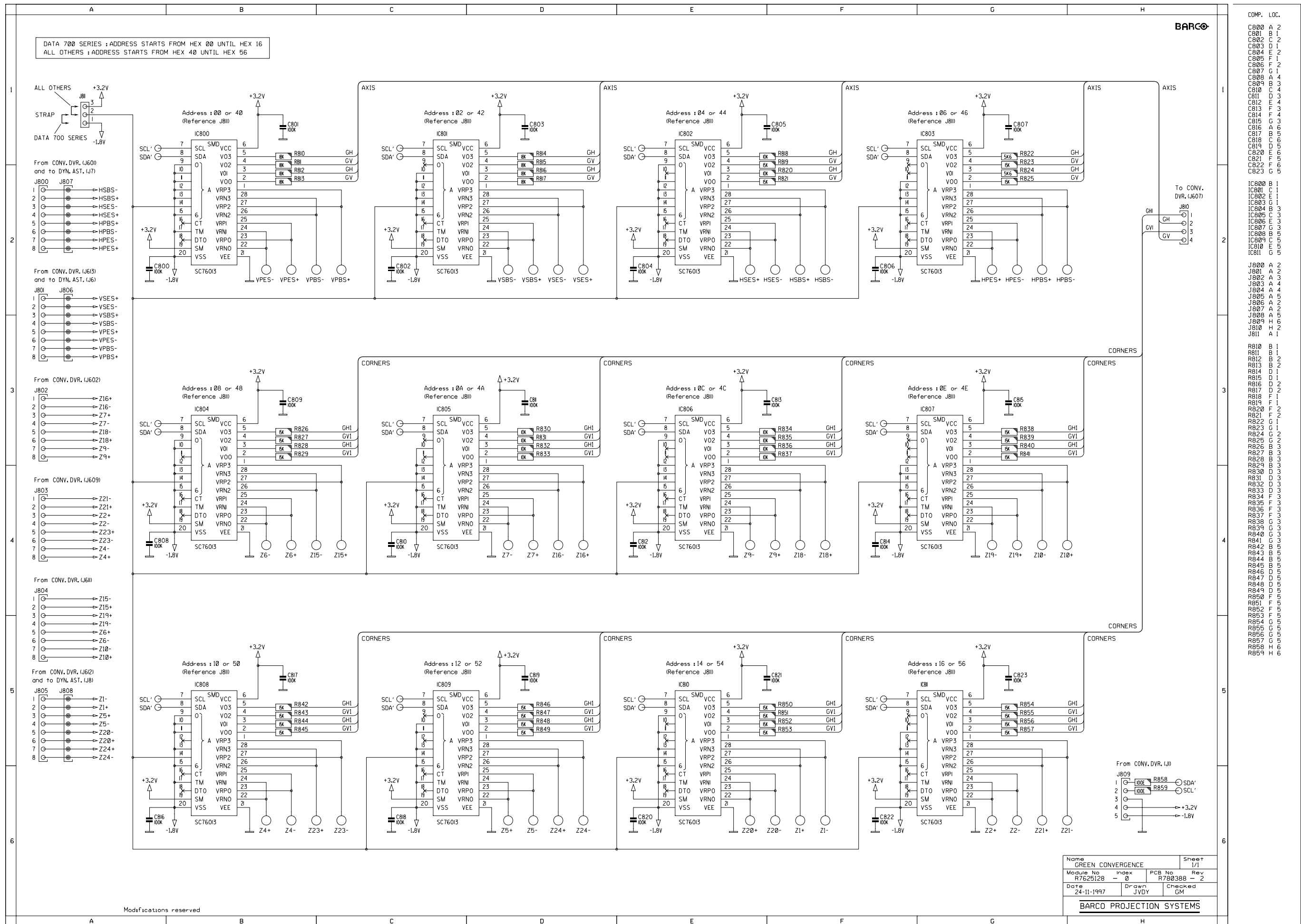


Interconnection Green convergence module

removed from main board and plugged in parallel connector on sub board

- Address setting (A5=1) for the Digital potentiometers on the Green convergence module





Convergence DRIVER module

GREEN Convergence module

R762518

R7625128

Parts listing Green Convergence module R7625128

SIT.	ITEM NO.	DESCRIPTION	QUANTITY	SIT.	ITEM NO.	DESCRIPTION	QUANTITY
1000	R3133921	JMD 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
				R821	P200101	R# CE H 15K J 0W12 1206	1
C800	P210122	C# X7R MU 100N K 50 1206	1	R822	P200091	R# CE H 5K6 J 0W12 1206	1
C801	P210122	C# X7R MU 100N K 50 1206	1	R823	P200101	R# CE H 15K J 0W12 1206	1
C802	P210122	C# X7R MU 100N K 50 1206	1	R824	P200091	R# CE H 5K6 J 0W12 1206	1
C803	P210122	C# X7R MU 100N K 50 1206	1	R825	P200101	R# CE H 15K J 0W12 1206	1
C804	P210122	C# X7R MU 100N K 50 1206	1	R826	P200101	R# CE H 15K J 0W12 1206	1
C805	P210122	C# X7R MU 100N K 50 1206	1	R827	P200101	R# CE H 15K J 0W12 1206	1
C806	P210122	C# X7R MU 100N K 50 1206	1	R828	P200101	R# CE H 15K J 0W12 1206	1
C807	P210122	C# X7R MU 100N K 50 1206	1	R829	P200101	R# CE H 15K J 0W12 1206	1
C808	P210122	C# X7R MU 100N K 50 1206	1	R830	P200097	R# CE H 10K J 0W12 1206	1
C809	P210122	C# X7R MU 100N K 50 1206	1	R831	P200097	R# CE H 10K J 0W12 1206	1
C810	P210122	C# X7R MU 100N K 50 1206	1	R832	P200097	R# CE H 10K J 0W12 1206	1
C811	P210122	C# X7R MU 100N K 50 1206	1	R833	P200097	R# CE H 10K J 0W12 1206	1
C812	P210122	C# X7R MU 100N K 50 1206	1	R834	P200097	R# CE H 10K J 0W12 1206	1
C813	P210122	C# X7R MU 100N K 50 1206	1	R835	P200097	R# CE H 10K J 0W12 1206	1
C814	P210122	C# X7R MU 100N K 50 1206	1	R836	P200097	R# CE H 10K J 0W12 1206	1
C815	P210122	C# X7R MU 100N K 50 1206	1	R837	P200097	R# CE H 10K J 0W12 1206	1
C816	P210122	C# X7R MU 100N K 50 1206	1	R838	P200101	R# CE H 15K J 0W12 1206	1
C817	P210122	C# X7R MU 100N K 50 1206	1	R839	P200101	R# CE H 15K J 0W12 1206	1
C818	P210122	C# X7R MU 100N K 50 1206	1	R840	P200101	R# CE H 15K J 0W12 1206	1
C819	P210122	C# X7R MU 100N K 50 1206	1	R841	P200101	R# CE H 15K J 0W12 1206	1
C820	P210122	C# X7R MU 100N K 50 1206	1	R842	P200101	R# CE H 15K J 0W12 1206	1
C821	P210122	C# X7R MU 100N K 50 1206	1	R843	P200101	R# CE H 15K J 0W12 1206	1
C822	P210122	C# X7R MU 100N K 50 1206	1	R844	P200101	R# CE H 15K J 0W12 1206	1
C823	P210122	C# X7R MU 100N K 50 1206	1	R845	P200101	R# CE H 15K J 0W12 1206	1
				R846	P200101	R# CE H 15K J 0W12 1206	1
I800	P230653	U#76013 SC SOL28 P	1	R847	P200101	R# CE H 15K J 0W12 1206	1
I801	P230653	U#76013 SC SOL28 P	1	R848	P200101	R# CE H 15K J 0W12 1206	1
I802	P230653	U#76013 SC SOL28 P	1	R849	P200101	R# CE H 15K J 0W12 1206	1
I803	P230653	U#76013 SC SOL28 P	1	R850	P200101	R# CE H 15K J 0W12 1206	1
I804	P230653	U#76013 SC SOL28 P	1	R851	P200101	R# CE H 15K J 0W12 1206	1
I805	P230653	U#76013 SC SOL28 P	1	R852	P200101	R# CE H 15K J 0W12 1206	1
I806	P230653	U#76013 SC SOL28 P	1	R853	P200101	R# CE H 15K J 0W12 1206	1
I807	P230653	U#76013 SC SOL28 P	1	R854	P200101	R# CE H 15K J 0W12 1206	1
I808	P230653	U#76013 SC SOL28 P	1	R855	P200101	R# CE H 15K J 0W12 1206	1
I809	P230653	U#76013 SC SOL28 P	1	R856	P200101	R# CE H 15K J 0W12 1206	1
I810	P230653	U#76013 SC SOL28 P	1	R857	P200101	R# CE H 15K J 0W12 1206	1
I811	P230653	U#76013 SC SOL28 P	1	R858	P200049	R# CE H100E J 0W12 1206	1
				R859	P200049	R# CE H100E J 0W12 1206	1
J800	R348408	CD CT FTMT P 8 60	1				
J801	R348408	CD CT FTMT P 8 60	1				
J802	R348408	CD CT FTMT P 8 60	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#PJ56G808CNVGRE	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				