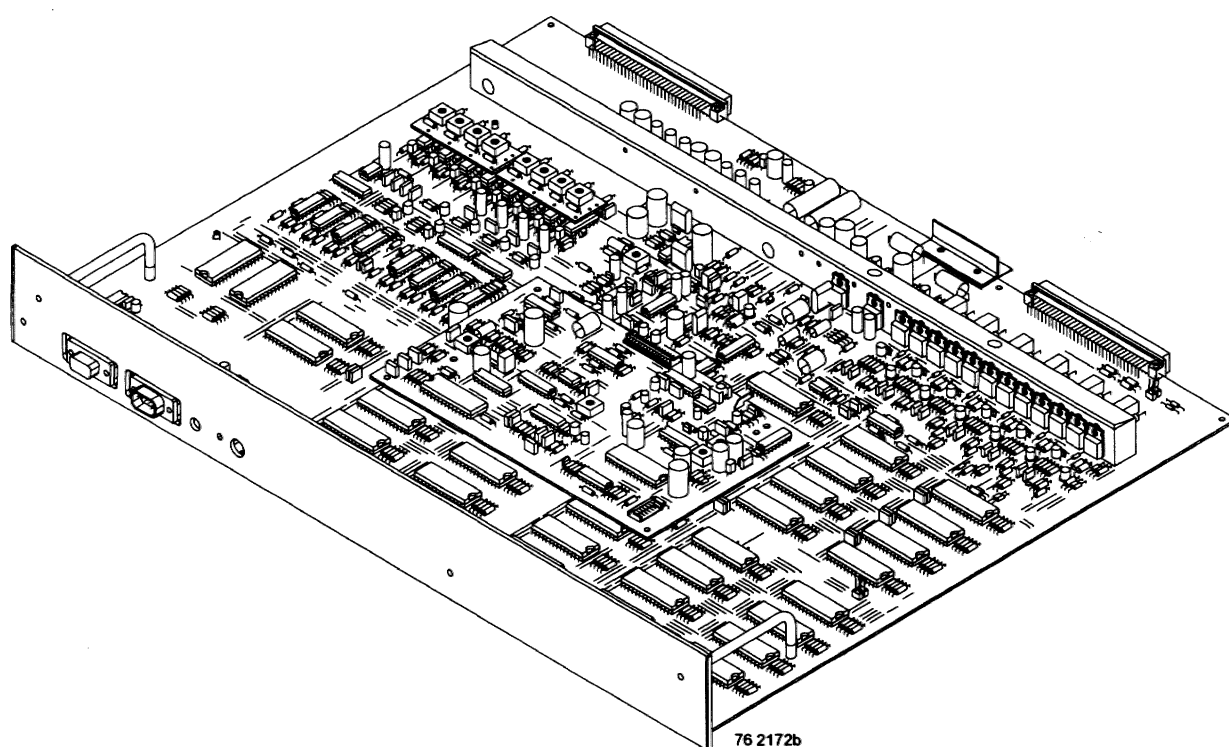
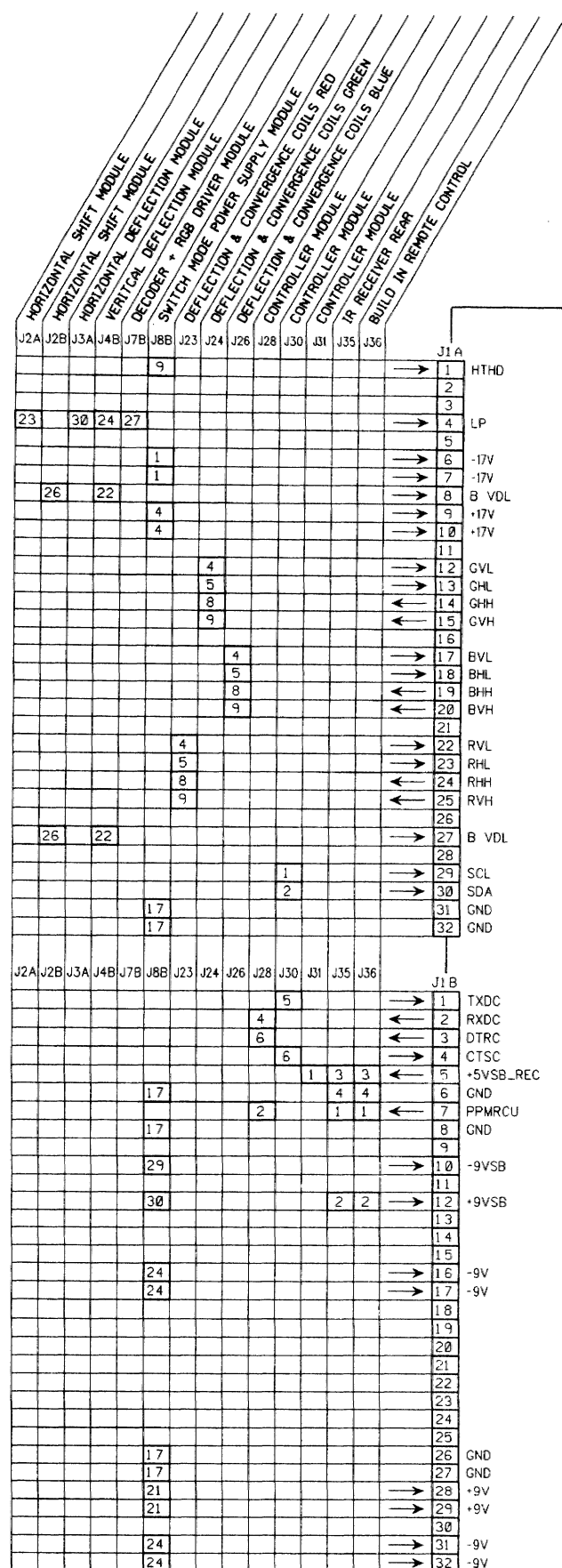


Convergence Module

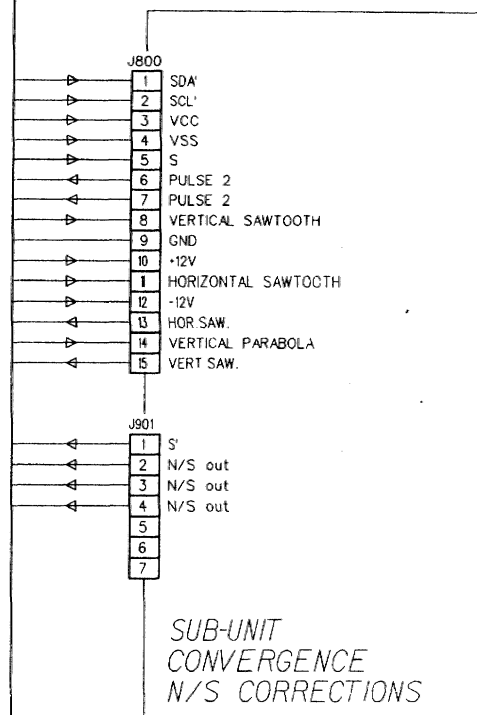
76 2172

Sub module 76 1872S
Sub module 76 2172S

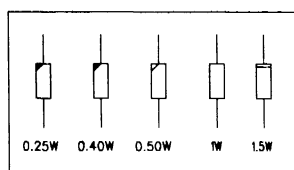




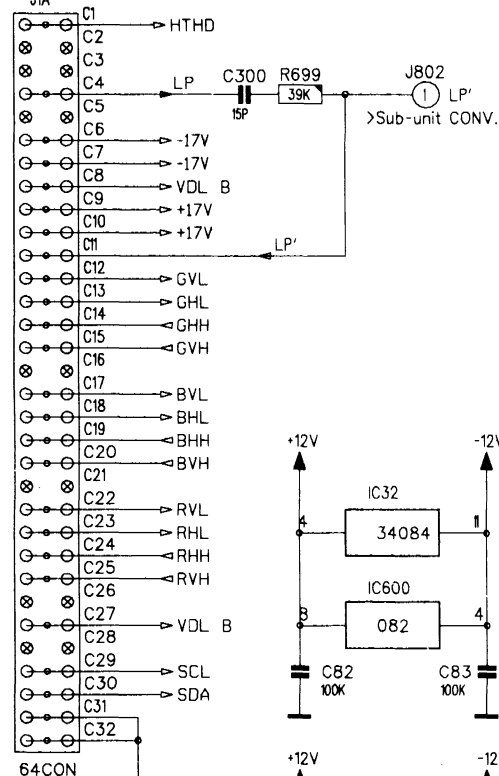
CONVERGENCE



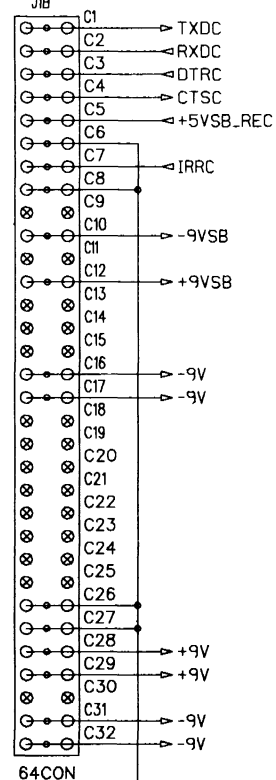
Name	Interconnections	Article nr.
CONVERGENCE MODULE	76 2172-2	
Date	Drawn	Checked
03-09-1993	JVDY	GM
BARCO PROJECTION SYSTEMS		



From FRAME (J1A)

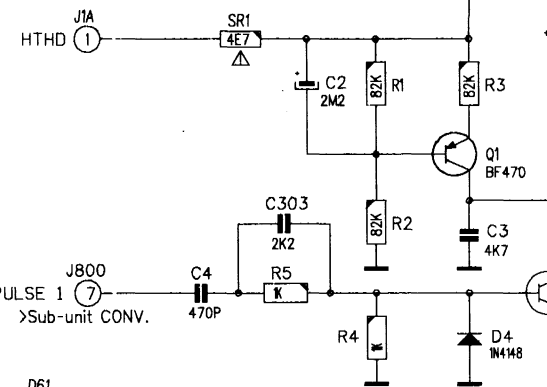
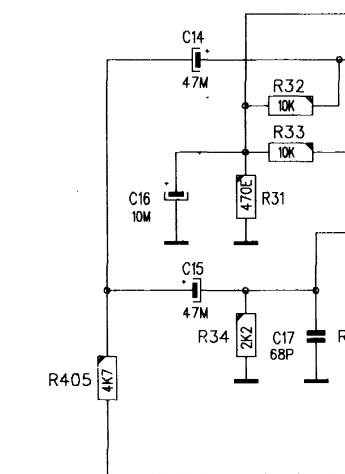
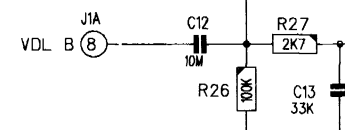


From FRAME (J1B)

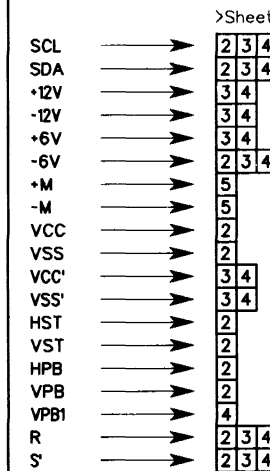


PRODUCT SAFETY NOTICE

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

Adjustment horizontal
Factory prHOR. SAW.
>Sub-unit CONV.Adjustment vertical
Factory prVERTICAL SAWTOOTH
J800 (8) >Sub-unit C

INTERCONNECTIONS

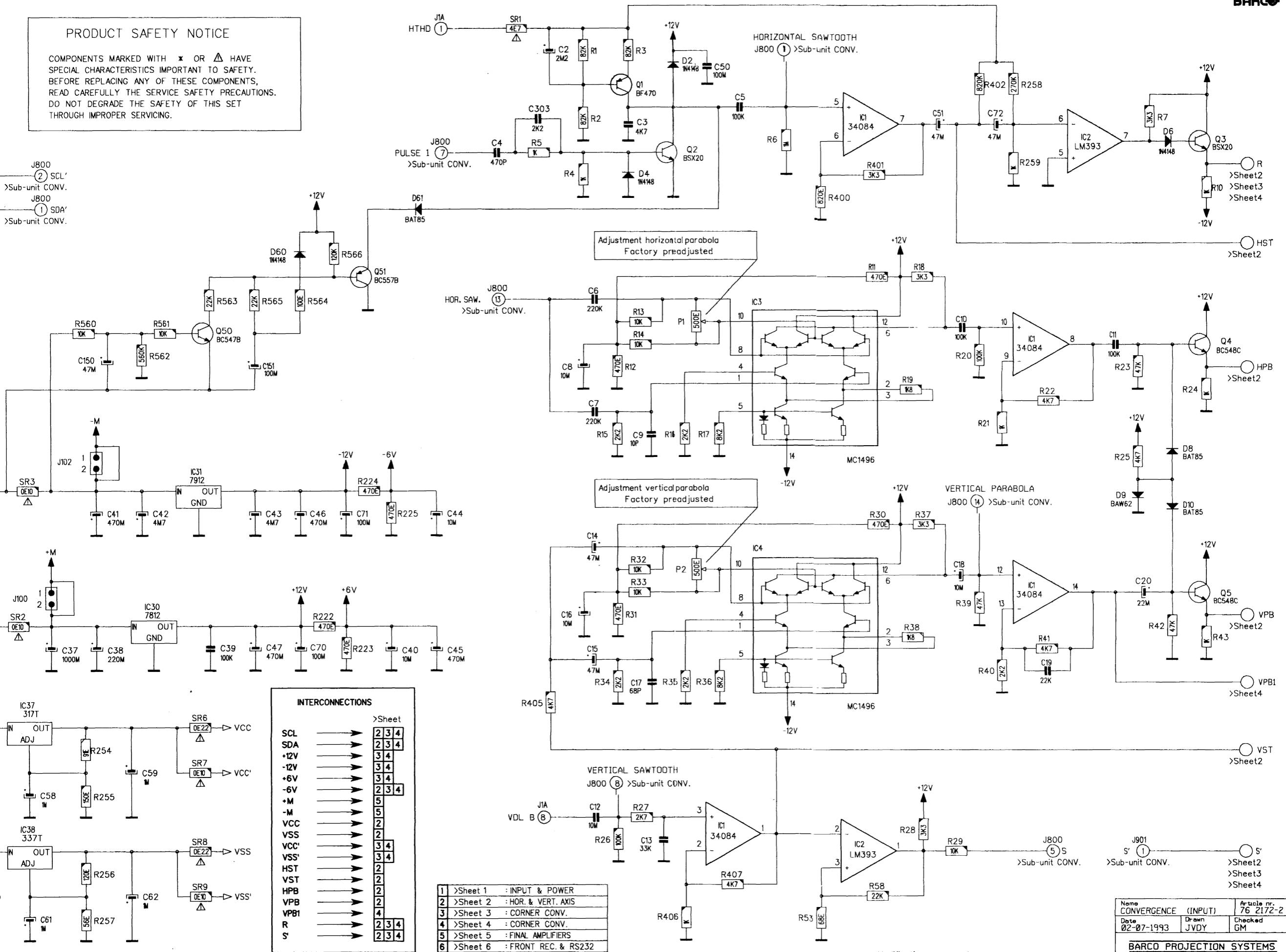


- 1 >Sheet 1 : INPUT & POWER
- 2 >Sheet 2 : HOR. & VERT. AXIS
- 3 >Sheet 3 : CORNER CONV.
- 4 >Sheet 4 : CORNER CONV.
- 5 >Sheet 5 : FINAL AMPLIFIERS
- 6 >Sheet 6 : FRONT REC. & RS232

PRODUCT SAFETY NOTICE

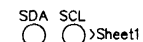
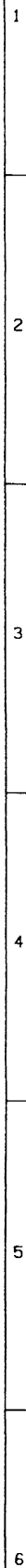
COMPONENTS MARKED WITH * OR Δ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS. DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.

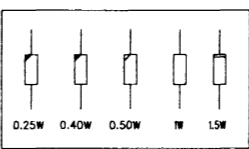
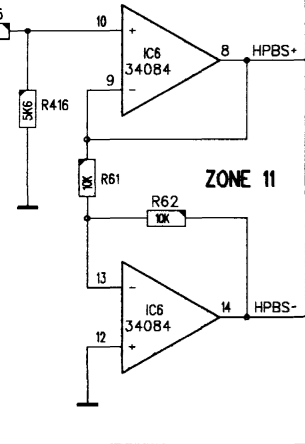
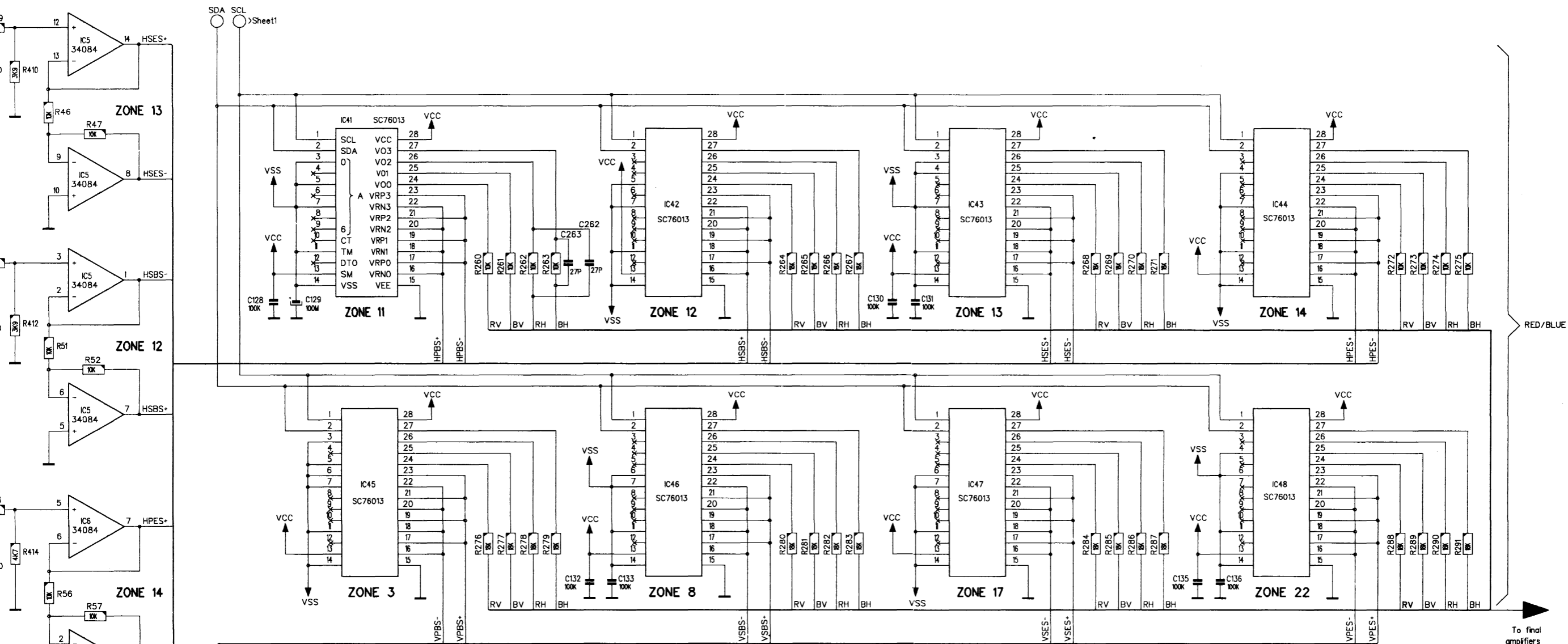
J800
② SCL'
>Sub-unit CONV.
J800
① SDA'
>Sub-unit CONV.



Modifications reserved

Name CONVERGENCE (INPUT)		Article nr. 76 2172-2
Date 02-07-1993	Drawn JVDY	Checked GM
BARCO PROJECTION SYSTEMS		





PRODUCT SAFETY NOTICE

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

INTERCONNECTIONS

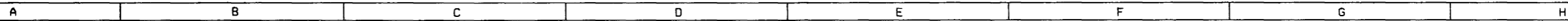
Signal	Sheet	Component
SDA	1	R390
SCL	1	R391
-6V	1	node R224/R225
VCC	1	SR6
VSS	1	SR8
HST	1	node C51/C72
VST	1	pin1/IC1
HPB	1	emitter Q4
VPB	1	emitter Q5
R	1	emitter Q3
HSES+	3	pin4/IC10
HSBS-	4	pin4/IC16
HPES+	3	pin4/IC14
HPBS+	4	pin4/IC12
	4	pin4/IC15
	3	pin4/IC13
	4	pin4/IC17
RH	5	pin13/IC32
BH	5	pin9/IC32
RV	5	pin2/IC32
BV	5	pin6/IC32

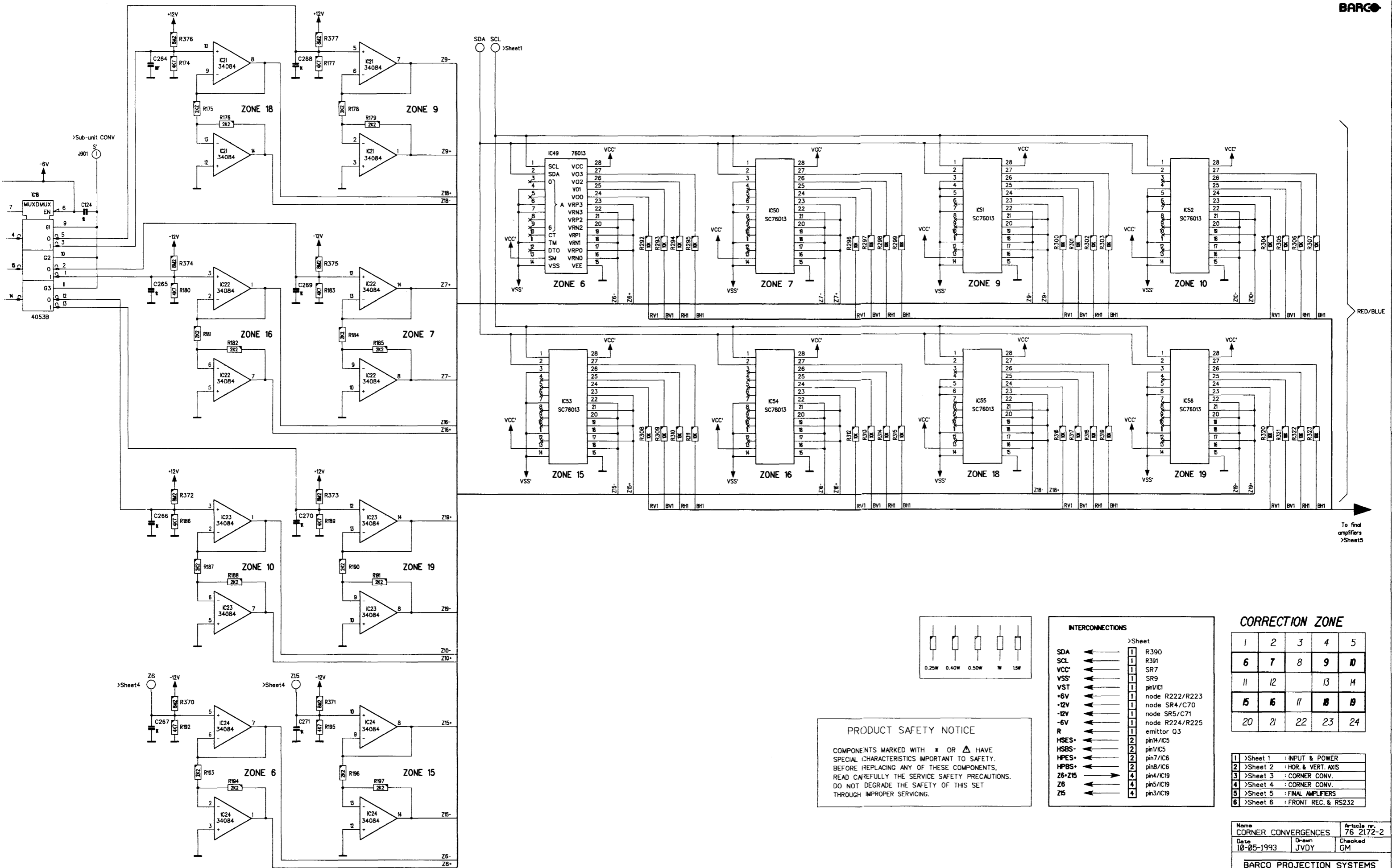
CORRECTION ZONE

1	2	3	4	5
6	7	8	9	10
11	12		13	14
15	16	17	18	19
20	21	22	23	24

1	>Sheet 1	: INPUT & POWER
2	>Sheet 2	: HOR. & VERT. AXIS
3	>Sheet 3	: CORNER CONV.
4	>Sheet 4	: CORNER CONV.
5	>Sheet 5	: FINAL AMPLIFIERS
6	>Sheet 6	: FRONT REC. & RS232

Name	HOR. & VERT. AXIS CONV.		Article nr.	76 2172-2
Date	07-05-1993	Drawn	JVDY	Checked
				GM
BARCO PROJECTION SYSTEMS				





CORRECTION ZONE

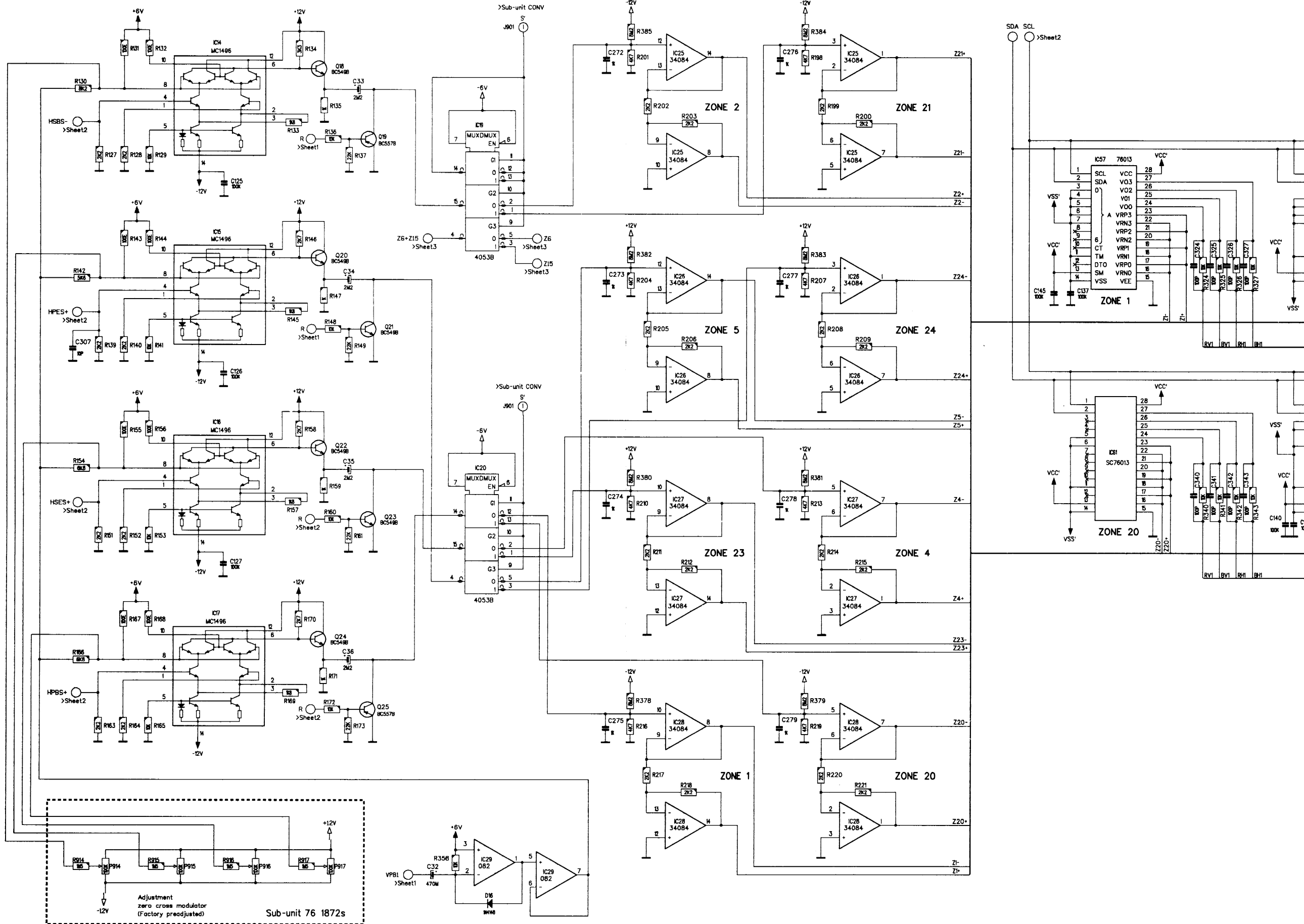
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

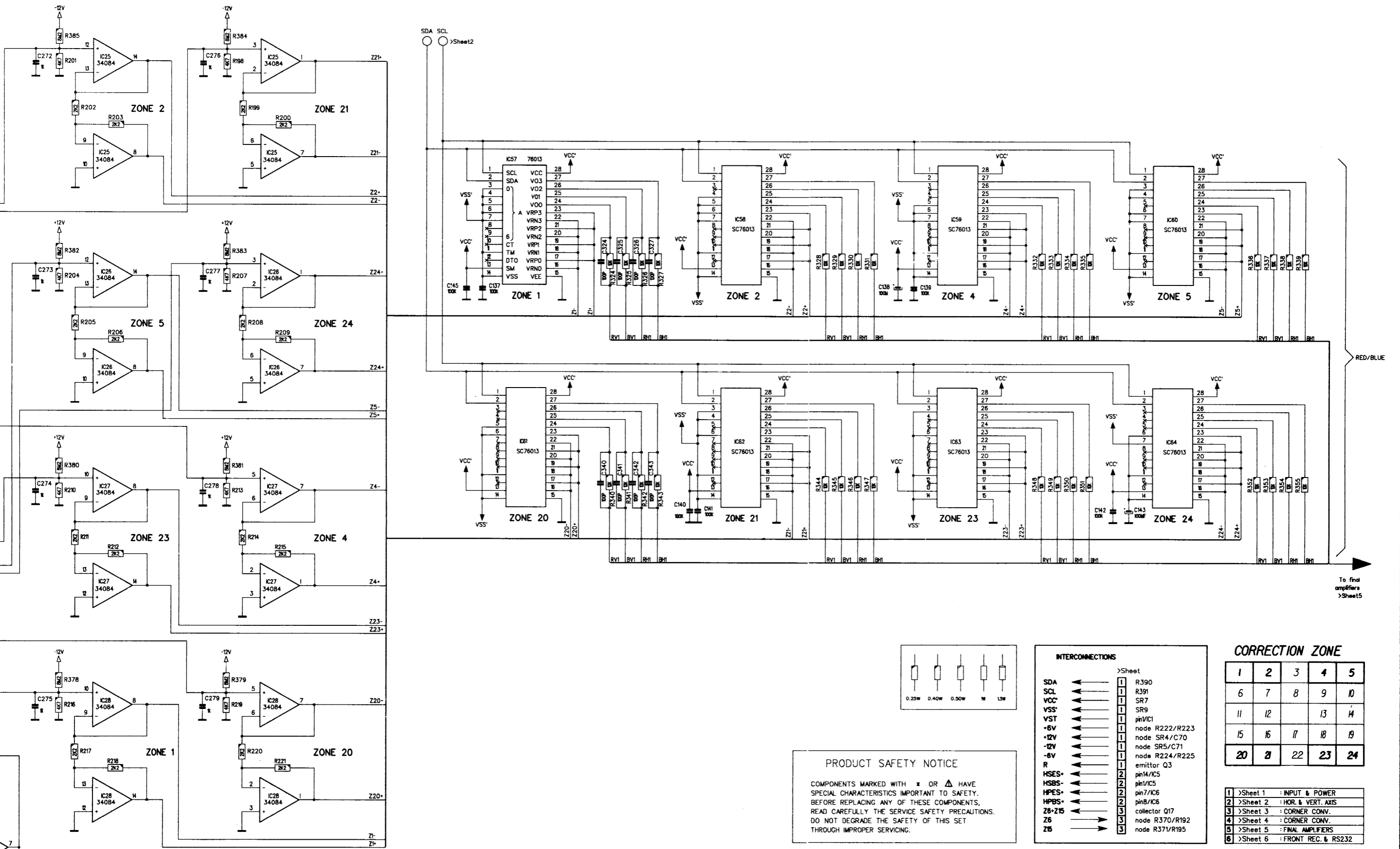
1	>Sheet 1 : INPUT & POWER
2	>Sheet 2 : HOR. & VERT. AXIS
3	>Sheet 3 : CORNER CONV.
4	>Sheet 4 : CORNER CONV.
5	>Sheet 5 : FINAL AMPLIFIERS
6	>Sheet 6 : FRONT REC. & RS232

Name	CORNER CONVERGENCES	Article nr.	76 2172-2
Date	10-05-1993	Drawn	JVDY
		Checked	GM

BARCO PROJECTION SYSTEMS

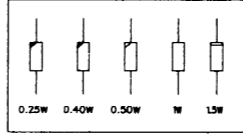
Modifications reserved





PRODUCT SAFETY NOTICE

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



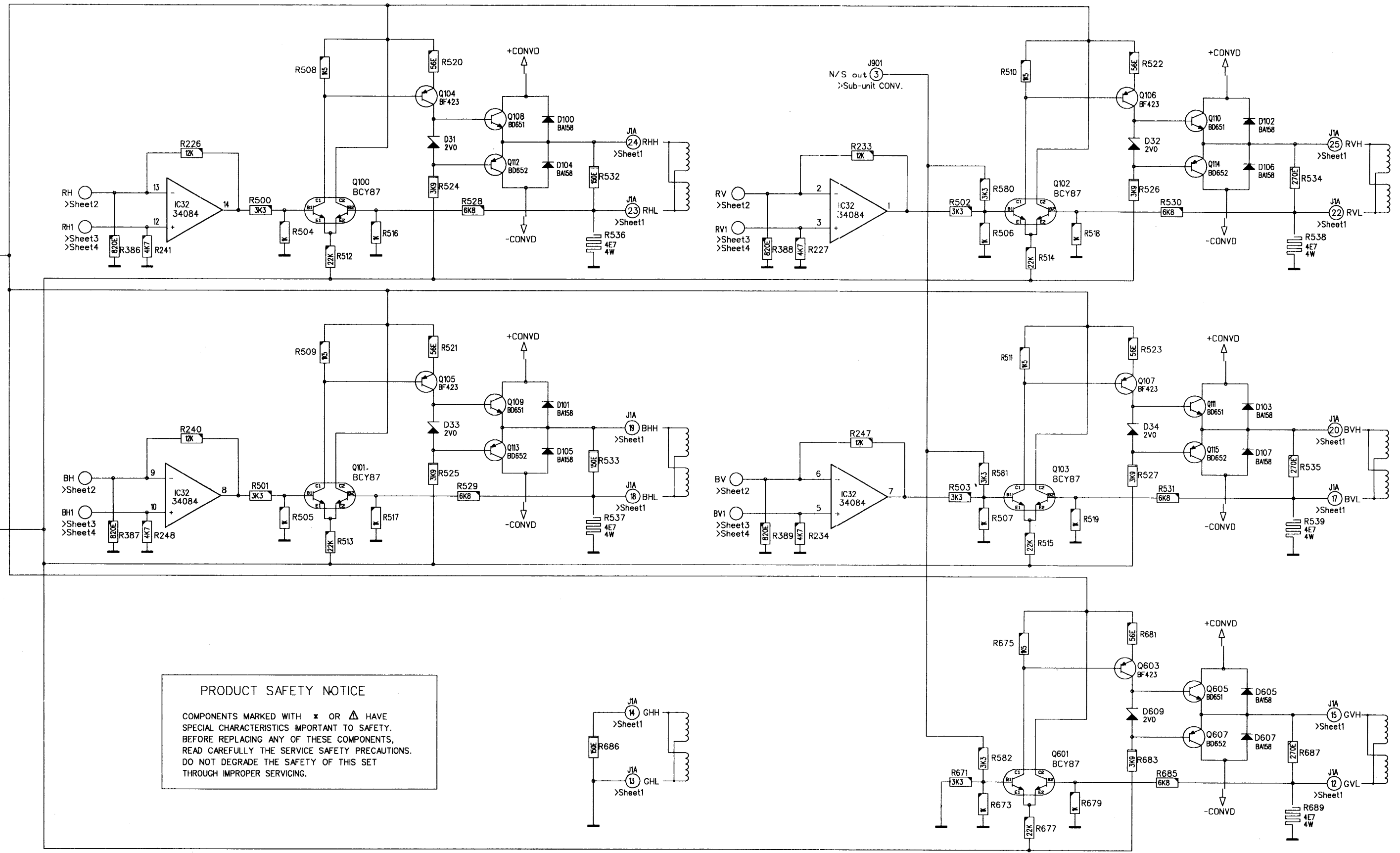
INTERCONNECTIONS	
SDA	Sheet 1
SCL	Sheet 1
VCC	Sheet 1
VSS	Sheet 1
VST	Sheet 1
+6V	Sheet 1
+12V	Sheet 1
-12V	Sheet 1
-6V	Sheet 1
R	Sheet 1
HSES	Sheet 1
HSBS	Sheet 1
HPES	Sheet 1
HPBS	Sheet 1
Z6+Z15	Sheet 1
Z6	Sheet 1
Z15	Sheet 1

CORRECTION ZONE

1	2	3	4	5
6	7	8	9	10
11	12		13	14
15	16	17	18	19
20	21	22	23	24

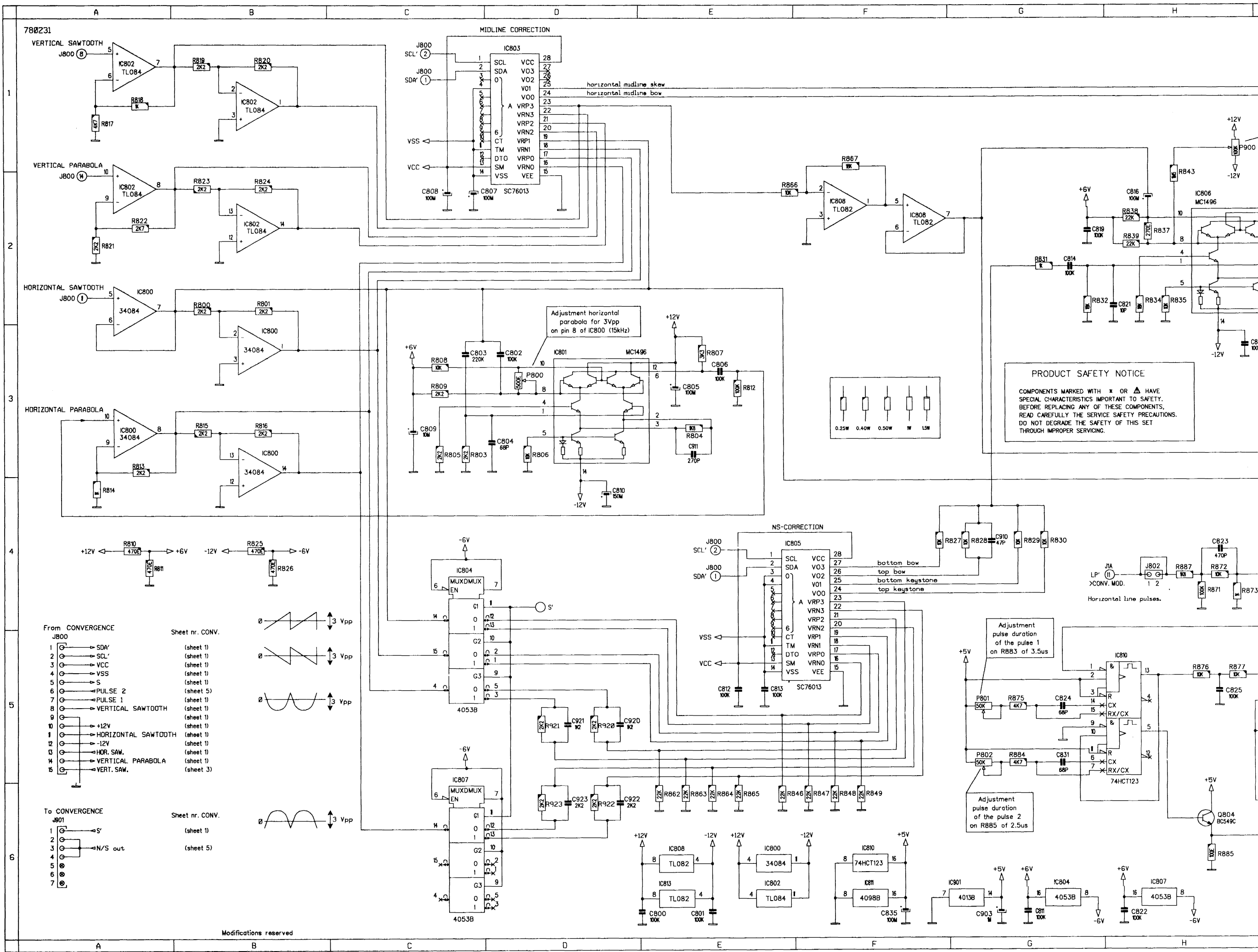
1	Sheet 1 : INPUT & POWER
2	Sheet 2 : HOR. & VERT. AXIS
3	Sheet 3 : CORNER CONV.
4	Sheet 4 : CORNER CONV.
5	Sheet 5 : FINAL AMPLIFIERS
6	Sheet 6 : FRONT REC. & RS232

Name	CORNER CONVERGENCES	Article n°	76 2172-2
Date	10-05-1993	Drawn	JVDY
		Checked	GM
BARCO PROJECTION SYSTEMS			



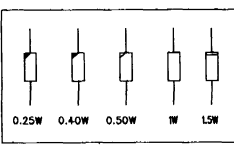
Name	FINAL AMPLIFIERS	Article nr.	76 2172-2
Date	12-05-1993	Drawn	JVDY
		Checked	GM
BARCO PROJECTION SYSTEMS			

COMP.	LOC.	SHEET	COMP.	LOC.	SHEET	COMP.	LOC.	SHEET	COMP.	LOC.	SHEET	COMP.	LOC.	SHEET	COMP.	LOC.	SHEET	COMP.	LOC.	SHEET			
C1	C 4	sheet 1	C278	E 4	sheet 4	IC20	C 3	sheet 1	P1	H 3	sheet 1	R50	D 2	sheet 2	R174	D 1	sheet 3	R308	G 4	sheet 3	R509	F 3	sheet 5
C2	G 1	sheet 1	C279	E 5	sheet 4	IC20	C 4	sheet 4	P2	H 4	sheet 1	R51	D 3	sheet 2	R175	E 1	sheet 3	R309	H 4	sheet 3	R510	J 1	sheet 5
C3	H 1	sheet 1	C300	A 2	sheet 1	IC21	B 5	sheet 1	P910	A 6	sheet 3	R52	E 3	sheet 2	R176	E 1	sheet 3	R310	H 4	sheet 3	R511	J 3	sheet 5
C4	G 1	sheet 1	C303	G 1	sheet 1	IC21	B 5	sheet 1	P911	B 6	sheet 3	R53	H 6	sheet 1	R177	E 1	sheet 3	R311	H 4	sheet 3	R512	F 2	sheet 5
C5	H 1	sheet 1	C304	D 2	sheet 2	IC21	E 1	sheet 3	P912	B 6	sheet 3	R54	D 3	sheet 2	R178	E 1	sheet 3	R312	I 4	sheet 3	R513	F 4	sheet 5
C6	G 2	sheet 1	C305	D 4	sheet 2	IC21	F 1	sheet 3	P913	C 6	sheet 3	R55	D 4	sheet 2	R179	F 1	sheet 3	R313	I 4	sheet 3	R514	J 2	sheet 5
C7	G 3	sheet 1	C306	C 5	sheet 2	IC21	F 2	sheet 3	P914	A 6	sheet 4	R56	D 4	sheet 2	R180	D 2	sheet 3	R314	I 4	sheet 3	R515	J 4	sheet 5
C8	G 3	sheet 1	C307	A 3	sheet 4	IC21	E 2	sheet 3	P915	B 6	sheet 4	R57	E 4	sheet 2	R181	E 3	sheet 3	R315	I 4	sheet 3	R516	F 2	sheet 5
C9	G 3	sheet 1	C324	H 2	sheet 4	IC22	B 5	sheet 1	P916	B 6	sheet 4	R58	I 6	sheet 1	R182	E 3	sheet 3	R316	J 4	sheet 3	R517	F 4	sheet 5
C10	I 3	sheet 1	C325	H 2	sheet 4	IC22	B 5	sheet 1	P917	C 6	sheet 4	R59	C 5	sheet 2	R183	E 2	sheet 3	R317	J 4	sheet 3	R518	J 2	sheet 5
C11	J 3	sheet 1	C326	H 2	sheet 4	IC22	F 2	sheet 3				R60	C 5	sheet 2	R184	E 3	sheet 3	R318	J 4	sheet 3	R519	J 4	sheet 5
C12	G 6	sheet 1	C327	H 2	sheet 4	IC22	E 2	sheet 3				R61	D 5	sheet 2	R185	F 3	sheet 3	R319	K 4	sheet 3	R520	F 1	sheet 5
C13	H 6	sheet 1	C340	H 4	sheet 4	IC22	E 3	sheet 3	Q1	H 1	sheet 1	R62	E 5	sheet 2	R186	D 4	sheet 3	R320	L 4	sheet 3	R521	F 3	sheet 5
C14	G 4	sheet 1	C341	H 4	sheet 4	IC22	F 3	sheet 3	Q2	H 1	sheet 1	R63	D 5	sheet 2	R187	E 4	sheet 3	R321	L 4	sheet 3	R522	K 1	sheet 5
C15	G 5	sheet 1	C342	H 4	sheet 4	IC23	B 6	sheet 1	Q3	K 1	sheet 1	R64	B 1	sheet 2	R188	E 4	sheet 3	R322	L 4	sheet 3	R523	K 3	sheet 5
C16	G 4	sheet 1	C343	H 4	sheet 4	IC23	B 6	sheet 1	Q4	K 3	sheet 1	R65	B 1	sheet 2	R189	E 4	sheet 3	R323	L 4	sheet 3	R524	F 2	sheet 5
C17	G 5	sheet 1	C700	C 6	sheet 6	IC23	F 4	sheet 3	Q5	K 4	sheet 1	R66	B 1	sheet 2	R190	E 4	sheet 3	R324	H 3	sheet 4	R525	F 4	sheet 5
C18	I 4	sheet 1	C701	B 6	sheet 6	IC23	E 5	sheet 3	Q6	D 1	sheet 2	R67	B 2	sheet 2	R191	F 4	sheet 3	R325	H 3	sheet 4	R526	K 2	sheet 5
C19	J 5	sheet 1	C702	B 6	sheet 6	IC23	F 5	sheet 3	Q7	D 2	sheet 2	R68	B 3	sheet 2	R192	D 5	sheet 3	R326	H 3	sheet 4	R527	K 4	sheet 5
C20	K 4	sheet 1	C703	B 5	sheet 6	IC23	E 4	sheet 3	Q8	D 4	sheet 2	R69	B 3	sheet 2	R193	E 6	sheet 3	R327	H 3	sheet 4	R528	G 2	sheet 5
C21	A 1	sheet 3	C704	B 5	sheet 6	IC24	B 6	sheet 1	Q9	D 5	sheet 2	R70	B 4	sheet 2	R194	E 6	sheet 3	R328	I 2	sheet 4	R529	G 4	sheet 5
C22	C 1	sheet 3	C705	A 5	sheet 6	IC24	B 6	sheet 1	Q10	C 1	sheet 3	R71	B 4	sheet 2	R195	E 5	sheet 3	R329	I 2	sheet 4	R530	K 2	sheet 5
C23	A 2	sheet 3	C706	B 4	sheet 6	IC24	F 6	sheet 3	Q12	C 2	sheet 3	R72	B 4	sheet 2	R196	E 6	sheet 3	R330	I 2	sheet 4	R531	K 4	sheet 5
C24	C 2	sheet 3	C707	B 4	sheet 6	IC24	E 5	sheet 3	Q13	C 3	sheet 3	R73	B 5	sheet 2	R197	F 6	sheet 3	R331	I 2	sheet 4	R532	G 2	sheet 5
C25	A 3	sheet 3				IC24	E 6	sheet 3	Q14	C 3	sheet 3	R74	B 5	sheet 2	R198	E 1	sheet 4	R332	J 2	sheet 4	R533	G 4	sheet 5
C26	C 3	sheet 3				IC24	F 5	sheet 3	Q15	C 4	sheet 3	R75	B 5	sheet 2	R199	E 1	sheet 4	R333	J 2	sheet 4	R534	L 2	sheet 5
C27	A 5	sheet 3	D1	D 5	sheet 2	IC25	B 4	sheet 1	Q16	C 5	sheet 3	R79	A 2	sheet 3	R200	F 1	sheet 4	R334	J 2	sheet 4	R535	L 4	sheet 5
C28	C 5	sheet 3	D2	H 1	sheet 1	IC25	B 4	sheet 1	Q17	C 5	sheet 3	R80	A 2	sheet 3	R201	D 1	sheet 4	R335	K 2	sheet 4	R536	G 2	sheet 5
C29	B 5	sheet 1	D4	H 2	sheet 1	IC25	F 2	sheet 4	Q18	C 1	sheet 4	R81	B 2	sheet 3	R202	D 1	sheet 4	R336	L 2	sheet 4	R537	G 4	sheet 5
C30	B 6	sheet 1	D6	K 1	sheet 1	IC25	E 2	sheet 4	Q19	C 2	sheet 4	R82	A 1	sheet 3	R203	E 1	sheet 4	R337	L 2	sheet 4	R538	L 2	sheet 5
C31	B 6	sheet 1	D8	K 3	sheet 1	IC25	E 1	sheet 4	Q20	C 2	sheet 4	R83	A 1	sheet 3	R204	D 2	sheet 4	R338	L 2	sheet 4	R539	L 4	sheet 5
C32	C 6	sheet 4	D9	J 4	sheet 1	IC25	F 1	sheet 4	Q21	C 3	sheet 4	R84	B 1	sheet 3	R205	D 3	sheet 4	R339	L 2	sheet 4	R560	D 3	sheet 1
C33	C 1	sheet 4	D10	K 4	sheet 1	IC26	B 4	sheet 1	Q22	C 3	sheet 4	R85	B 1	sheet 3	R206	F 3	sheet 4	R340	H 4	sheet 4	R561	E 3	sheet 1
C34	C 2	sheet 4	D13	D 1	sheet 2	IC26	B 4	sheet 1	Q23	C 4	sheet 4	R86	C 1	sheet 3	R207	E 2	sheet 4	R341	H 4	sheet 4	R562	E 3	sheet 1
C35	C 4	sheet 4	D14	D 3	sheet 2	IC26	F 3	sheet 4	Q24	C 5	sheet 4	R87	C 1	sheet 3	R208	E 3	sheet 4	R342	H 4	sheet 4	R563	E 2	sheet 1
C36	C 5	sheet 4	D15	D 4	sheet 2	IC26	F 3	sheet 4	Q25	C 5	sheet 4	R88	C 1	sheet 3	R209	F 3	sheet 4	R343	H 4	sheet 4	R564	F 2	sheet 1
C37	D 5	sheet 1	D16	C 6	sheet 4	IC26	F 2	sheet 4	Q29	B 4	sheet 5	R89	C 2	sheet 3	R210	D 4	sheet 4	R344	I 4	sheet 4	R565	E 2	sheet 1
C38	D 5	sheet 1	D25	B 2	sheet 5	IC26	E 2	sheet 4	Q30	C 2	sheet 5	R91	A 3	sheet 3	R211	D 4	sheet 4	R345	I 4	sheet 4	R566	F 2	sheet 1
C39	E 5	sheet 1	D26	B 2	sheet 5	IC26	E 2	sheet 4	Q31	C 2	sheet 5	R92	A 3	sheet 3	R212	E 4	sheet 4	R346	I 4	sheet 4	R580	J 2	sheet 5
C40	F 5	sheet 1	D27	C 2	sheet 5	IC27	B 4	sheet 1	Q32	C 4	sheet 5	R93	B 3	sheet 3	R213	E 4	sheet 4	R347	I 4	sheet 4	R581	J 4	sheet 5
C41	D 4	sheet 1	D28	C 2	sheet 5	IC27	E 4	sheet 4	Q33	C 5	sheet 5	R94	A 2	sheet 3	R214	E 4	sheet 4	R348	J 4	sheet 4	R582	J 5	sheet 5
C42	E 4	sheet 1	D29	C 4	sheet 5	IC27	F 4	sheet 4	Q34	B 2	sheet 5	R95	A 2	sheet 3	R215	F 4	sheet 4	R349	J 4	sheet 4	R671	J 5	sheet 5
C43	E 4	sheet 1	D30	C 4	sheet 5	IC27	F 4	sheet 4	Q50	E 3	sheet 1	R96	B 2	sheet 3	R216	D 5	sheet 4	R350	J 4	sheet 4	R673	J 6	sheet 5
C44	F 4	sheet 1	D31	G 2	sheet 5	IC27	E 4	sheet 4	Q51	F 2	sheet 1	R97	B 3	sheet 3	R217	D 5	sheet 4	R351	K 4	sheet 4	R675	J 5	sheet 5
C45	F 5	sheet 1	D32	K 2	sheet 5	IC28	B 5	sheet 1	Q100	F 2	sheet 5	R98	C 2	sheet 3	R218	E 5	sheet 4	R352	L 4	sheet 4	R677	J 6	sheet 5
C46	F 4	sheet 1	D33	G 3	sheet 5	IC28	B 5	sheet 1	Q101	F 4	sheet 5	R99	C 2	sheet 3	R219	E 5	sheet 4	R353	L 4	sheet 4	R679	J 6	sheet 5
C47	E 5	sheet 1	D34	K 3	sheet 5	IC28	F 5	sheet 4	Q102	J 2	sheet 5	R100	C 3	sheet 3	R220	E 5	sheet 4	R354	L 4	sheet 4	R681	K 5	sheet 5
C50	H 1	sheet 1	D60	E 2	sheet 1	IC28	F 5	sheet 4	Q103	J 4	sheet 5	R101	C 3	sheet 3	R221	F 5	sheet 4	R355	L 4	sheet 4	R685	K 5	sheet 5
C51	I 1	sheet 1	D61	F 2	sheet 1	IC28	E 5	sheet 4	Q104	F 1	sheet 5	R103	A 4	sheet 3	R222	F 4	sheet 1	R356	C 1	sheet 1	R686	G 5	sheet 5
C55	C 4	sheet 2	D100	G 1	sheet 5	IC28	E 6	sheet 4	Q105	F 3	sheet 5	R104	A 4	sheet 3	R223	F 5	sheet 1	R357	C 2	sheet 1	R687	L 5	sheet 5
C57	D 5	sheet 1	D101	G 3	sheet 5	IC29	B 5	sheet 1	Q106	K 1	sheet 5	R105	B 4	sheet 3	R224	F 4	sheet 1	R358	C 6	sheet 4	R689	L 6	sheet 5
C58	D 5	sheet 1	D102	K 1	sheet 5	IC29	B 5	sheet 1	Q107	K 3	sheet 5	R106	A 4	sheet 3	R225	F 4	sheet 1	R362	A 4	sheet 5	R699	A 2	sheet 1
C59	D 5	sheet 1	D103	K 3	sheet 5	IC29	C 6	sheet 4	Q108	G 1	sheet 5	R107	A 3	sheet 3	R226	E 2	sheet 5	R363	A 5	sheet 5	R700	D 1	sheet 6
C60	D 6	sheet 1	D104	G 2	sheet 5	IC29	D 6	sheet 4	Q109	G 3	sheet 5	R108	B 3	sheet 3	R227	I 2	sheet 5	R364	B 4	sheet 5	R701	D 2	sheet 6
C61	D 6	sheet 1	D105	C 3	sheet 5	IC30	E 4	sheet 1	Q110	K 1	sheet 5	R109	B 4	sheet 3	R233	I 2	sheet 5	R365	B 3	sheet 5	R702	B 4	sheet 6
C62	D 6	sheet 1	D106	K 2	sheet 5	IC31	E 3	sheet 1	Q11	K 3	sheet 5	R110	C 3	sheet 3	R234	I 4	sheet 5	R366	B 2	sheet 5	R703	D 3	sheet 6
C67	C 6	sheet 1	D107	K 3	sheet 5	IC32	B 3	sheet 1	Q112	G 2	sheet 5	R11	C 4	sheet 3	R240	E 3	sheet 5	R367	B 2	sheet 5	R704	C 5	sheet 6
C68	B 6	sheet 1	D605	K 5	sheet 5	IC32	B 3	sheet 1	Q113	G 3	sheet 5	R112	C 4	sheet 3	R241	E 2	sheet 5	R368	B 2	sheet 5	R705	B 5	sheet 6
C69	C 6	sheet 1	D607	K 5	sheet 5	IC32	I 2	sheet 5	Q114	K 2	sheet 5	R113	C 4	sheet 3	R247	I 3	sheet 5	R370	D 5	sheet 3	R706	C 4	sheet 6
C70	F 5	sheet 1	D609	K 5	sheet 5	IC32	E 2	sheet 5	Q115	K 3	sheet 5	R115	A 5	sheet 3	R248	E 4	sheet 5	R371	E 5	sheet 3	R707	C 3	sheet 6
C71	F 4	sheet 1	D700	A 4	sheet 6	IC32	E 4	sheet 5	Q601	J 5	sheet 5	R116	A 5	sheet 3	R254	D 5	sheet 1	R372	D 4	sheet 3	R710	D 1	sheet 6
C72	J 1	sheet 1	D701	B 4	sheet 6	IC32	I 4	sheet 5	Q603	K 5	sheet 5	R117	B 5	sheet 3	R255	D 5	sheet 1	R373	E 4	sheet 3	R711	D 1	sheet 6
C73	C 5	sheet 1				IC37	D 5	sheet 1	Q605	K 5	sheet 5	R118	A 5	sheet 3	R256	D 6	sheet 1	R374	D 2	sheet 3	R712	C 3	sheet 6
C82	B 3	sheet 1	IC1	H 6	sheet 1	IC38	D 6	sheet 1	Q607	K 5	sheet 5	R119	A 4	sheet 3	R257	D 6	sheet 1	R375	E 2	sheet 3	R910	A 6	sheet 3
C83	B 3	sheet 1	IC1	C 4	sheet 1	IC41	F 1	sheet 2	Q700	D 5	sheet 6	R120	B 4	sheet 3	R258	J 1	sheet 1	R376	D 1	sheet 3	R911	B 6	sheet 3
C90	A 2	sheet 5	IC1	J 3	sheet 1	IC42	H 2	sheet 2	Q701	C 3	sheet 6	R121	B 5	sheet 3	R259	J 2	sheet 1						



PRODUCT SAFETY NOTICE

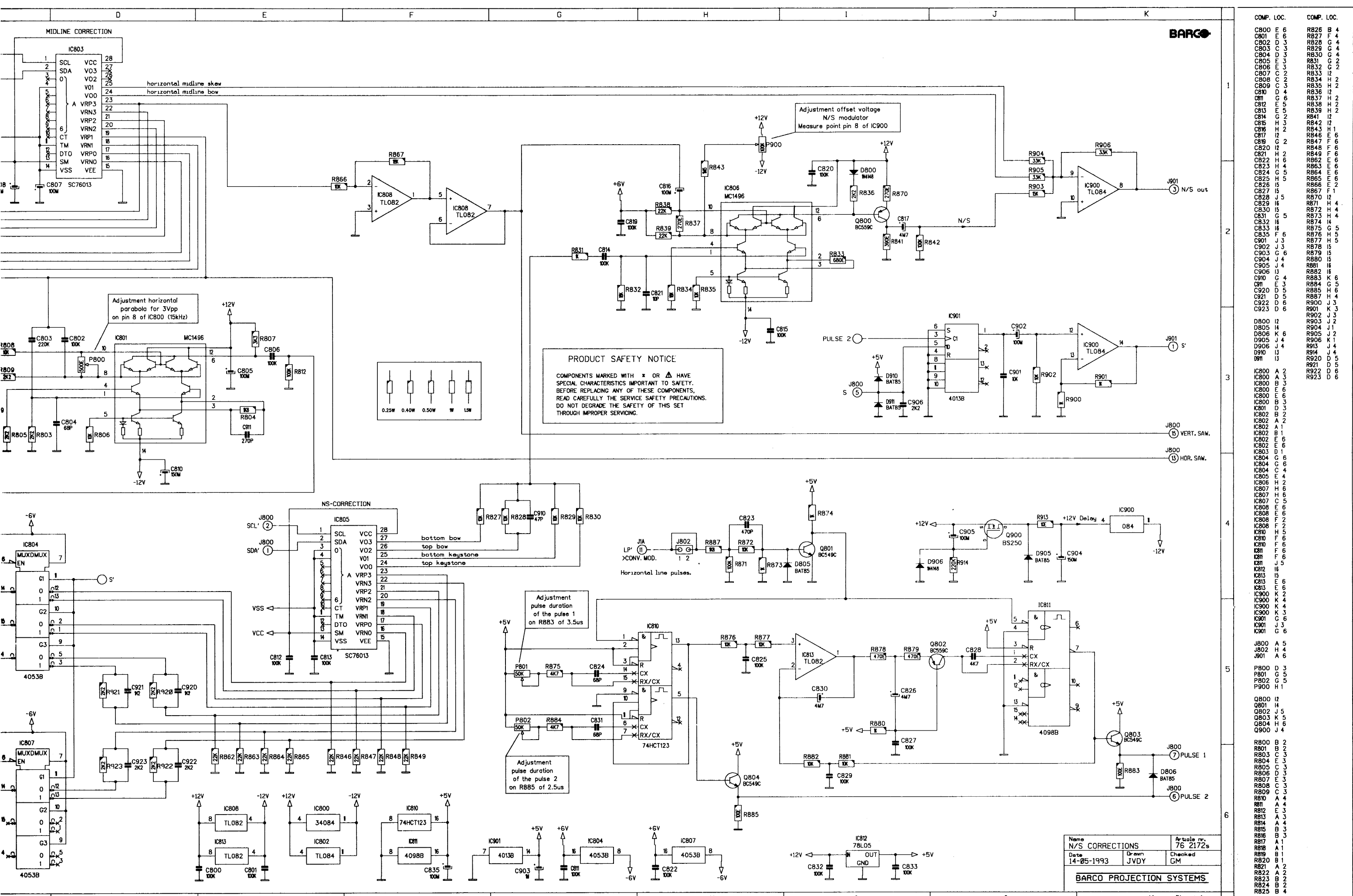
COMPONENTS MARKED WITH * OR Δ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS. DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.



- From CONVERGENCE J800
- 1 SDA'
 - 2 SCL'
 - 3 VCC
 - 4 VSS
 - 5 S
 - 6 PULSE 2
 - 7 PULSE 1
 - 8 VERTICAL SAWTOOTH
 - 9 +12V
 - 10 HORIZONTAL SAWTOOTH
 - 11 -12V
 - 12 HOR. SAW.
 - 13 VERTICAL PARABOLA
 - 14 VERT. SAW.
- Sheet nr. CONV. (sheet 1) (sheet 1) (sheet 1) (sheet 1) (sheet 5) (sheet 1) (sheet 1) (sheet 1) (sheet 1) (sheet 1) (sheet 1) (sheet 3)

- To CONVERGENCE J801
- 1 S'
 - 2 N/S out
 - 3
 - 4
 - 5
 - 6
 - 7
- Sheet nr. CONV. (sheet 1) (sheet 5)

Modifications reserved



Name: N/S CORRECTIONS Article no.: 76 2172s

Date: 14-05-1993 Drawn: JVDY Checked: GM

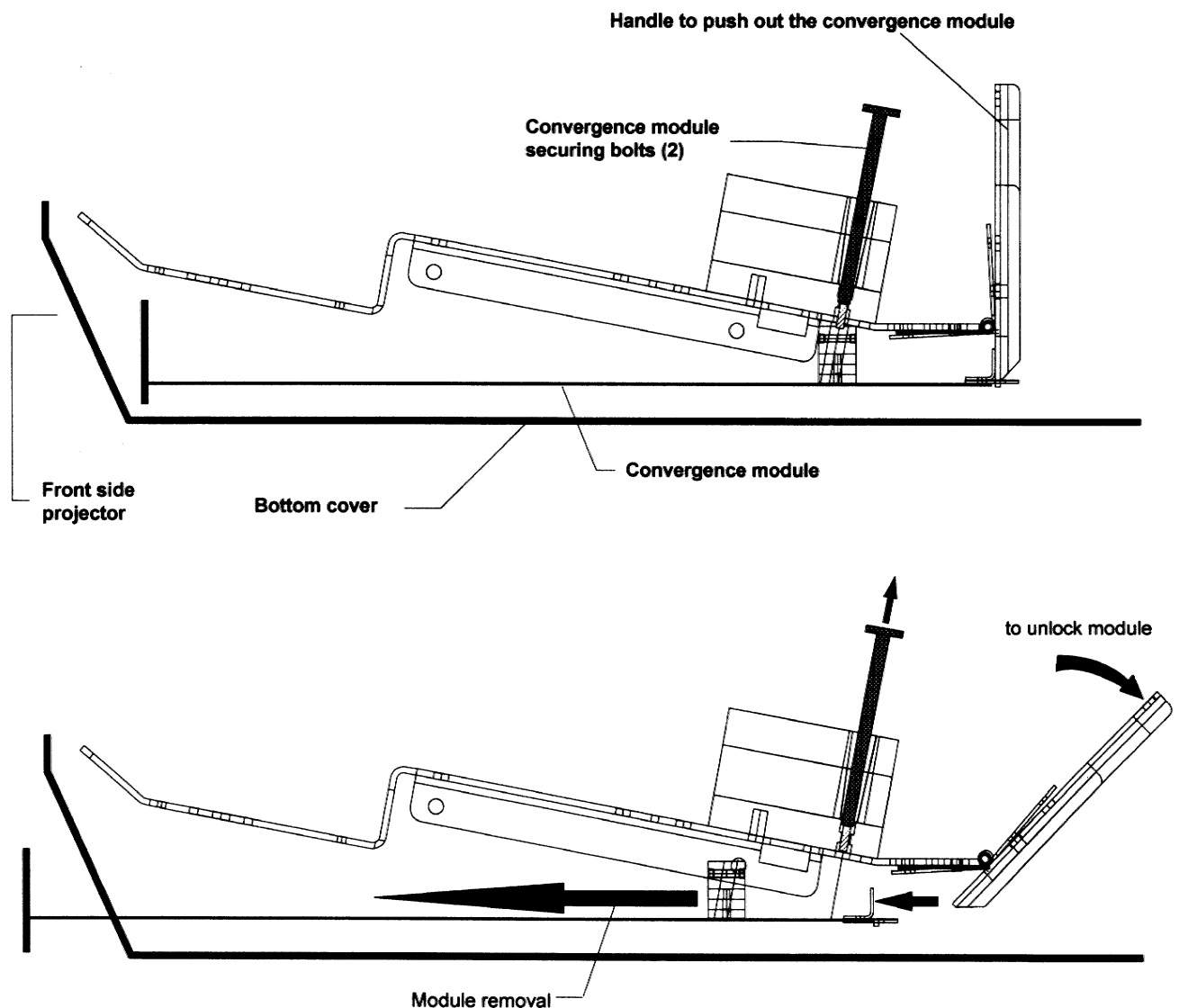
BARCO PROJECTION SYSTEMS

Convergence module removal

The convergence module is locked and pushed out by means of a handle which is situated between the red and Green picture tube and mounted on the metallic bottom frame.

Removing the convergence module

- loosen the two module securing bolts totally. The bolts stay in the heatsink.
- push the handle downwards to unlock the module.
- pull out the module on the front side of the projector.



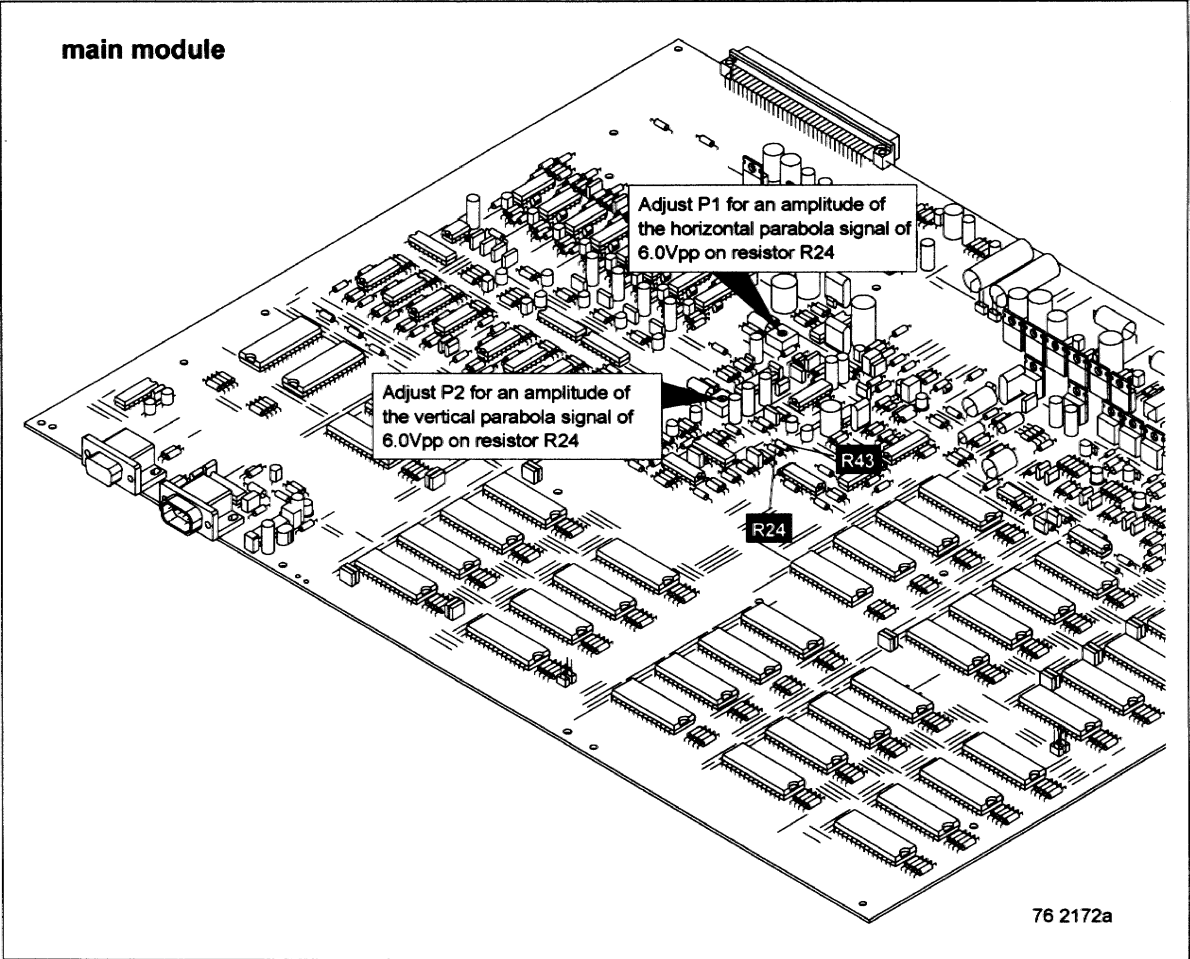
Insertion of the convergence module

- slide the module in the board rack fully and push at the end on the front of the module until the module locks.
- secure the module with the module securing bolts.

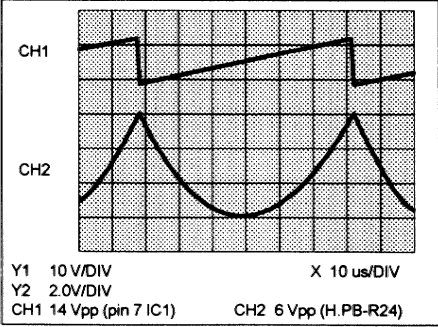
Adjustments on the main module 76 2172

Introduction The potentiometers P1 (Hor. Par) and P2 (Vert. Par) on the main module 76 2172 have to be adjusted when the projector operates on a signal with standard frequency.

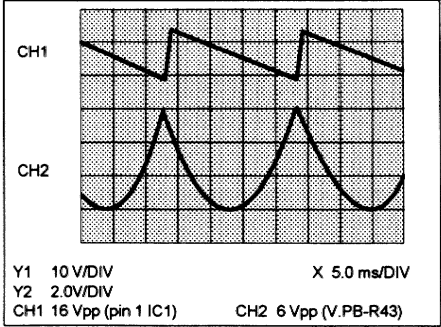
Adjustments



Horizontal parabola (R24)



Vertical parabola (R43)



Adjustments on the main module 76 2172

Introduction

The following potentiometers on the main module 76 2172 have to be adjusted when the projector operates on a signal with **standard frequency**.

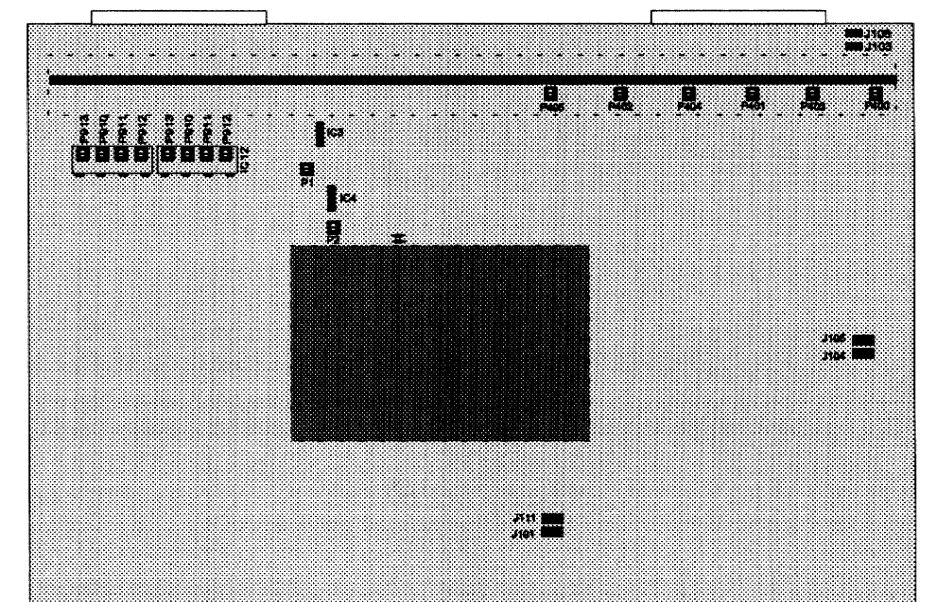
Adjustment of the biasing of the corner convergence modulators:

- P910 (IC10) zone 9/18
- P911 (IC11) zone 7/16
- P912 (IC12) zone 10/19
- P913 (IC13) zone 6/15
- P914 (IC14) zone 2/21
- P915 (IC15) zone 5/24
- P916 (IC16) zone 4/23
- P917 (IC17) zone 1/20

1	2	3	4	5
6	7	8	9	10
11	12		13	14
15	16	17	18	19
20	21	22	23	24

convergence zones

Adjustments



Function of the links (J103/J106- J105/J104- J101/J111) on the module:



This links are provided on the module in order to check the module on I²C bus short-circuit.

- Removing links J106/J103 interrupts the I²C communication to the BELLA IC's on the module.

Allows to diagnose an I²C bus short-circuit **on the module**

- Removing links J105/J104 interrupts the I²C communication to the BELLA IC's from IC49.

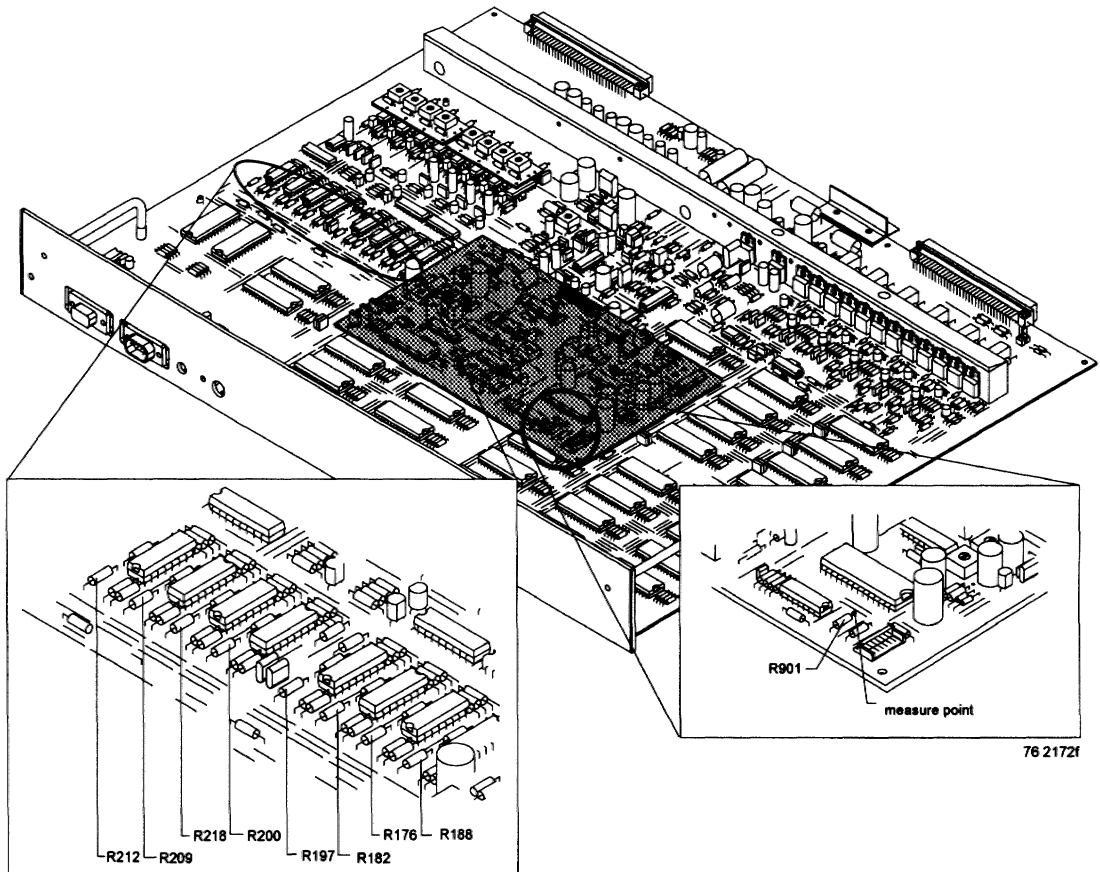
allows to diagnose an I²C bus short-circuit on the module **from IC49**.

- Removing links J101/J111 interrupts the I²C communication to the BELLA IC's from IC55.

Allows to diagnose an I²C bus short-circuit on the module **from IC55**.

Adjustment

Zero cross point of the corner convergence modulators

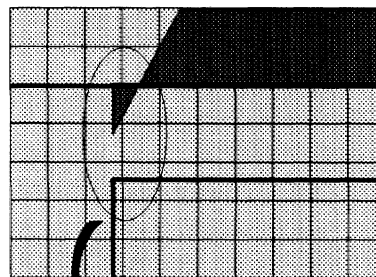


Alignment modulators

- Corner convergence modulator IC10-P910

- connect channel 1 of the oscilloscope to the resistor R176 (pin 14 IC21). Select for that channel the maximum input sensitivity.
- connect channel 2 of the oscilloscope to the resistor R901 (pin 14 IC900 on sub module 76 2172S =switching signal S').
- adjust the potentiometer P910 for coincidence of the zero cross point of the modulated signal with the leading edge of the switching signal.

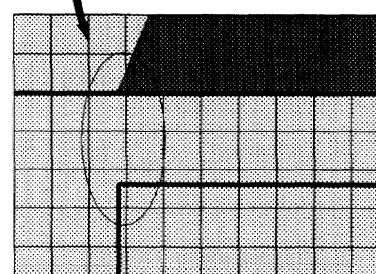
incorrect setting of P910



signal on the resistor R176

signal S' (on R901)

correct setting of P910



signal on the resistor R176

signal S' (on R901)

- Corner convergence modulator IC11-P911

- connect channel 1 of the oscilloscope to the resistor R182 (pin 7 IC22). Select for that channel the maximum input sensitivity.
- adjust the potentiometer P911 for coincidence of the zero cross point of the modulated signal with the leading edge of the switching signal (see oscillogram on preceding page).

- Corner convergence modulator IC12-P912

- connect channel 1 of the oscilloscope to the resistor R188 (pin 7 IC23). Select for that channel the maximum input sensitivity.
- adjust the potentiometer P912 for coincidence of the zero cross point of the modulated signal with the leading edge of the switching signal (see oscillogram on preceding page).

- Corner convergence modulator IC13-P913

- connect channel 1 of the oscilloscope to the resistor R197 (pin 14 IC24). Select for that channel the maximum input sensitivity.
- adjust the potentiometer P913 for coincidence of the zero cross point of the modulated signal with the leading edge of the switching signal (see oscillogram on preceding page).

- Corner convergence modulator IC14-P914

- connect channel 1 of the oscilloscope to the resistor R200 (pin 7 IC25). Select for that channel the maximum input sensitivity.
- adjust the potentiometer P914 for coincidence of the zero cross point of the modulated signal with the leading edge of the switching signal (see oscillogram on preceding page).

- Corner convergence modulator IC15-P915

- connect channel 1 of the oscilloscope to the resistor R209 (pin 7 IC26). Select for that channel the maximum input sensitivity.
- adjust the potentiometer P915 for coincidence of the zero cross point of the modulated signal with the leading edge of the switching signal (see oscillogram on preceding page).

- Corner convergence modulator IC16-P916

- connect channel 1 of the oscilloscope to the resistor R212 (pin 14 IC27). Select for that channel the maximum input sensitivity.
- adjust the potentiometer P916 for coincidence of the zero cross point of the modulated signal with the leading edge of the switching signal (see oscillogram on preceding page).

- Corner convergence modulator IC17-P917

- connect channel 1 of the oscilloscope to the resistor R218 (pin 14 IC28). Select for that channel the maximum input sensitivity.
- adjust the potentiometer P917 for coincidence of the zero cross point of the modulated signal with the leading edge of the switching signal (see oscillogram on preceding page).

Adjustments on the sub module "N-S Corrections 76 2172S"

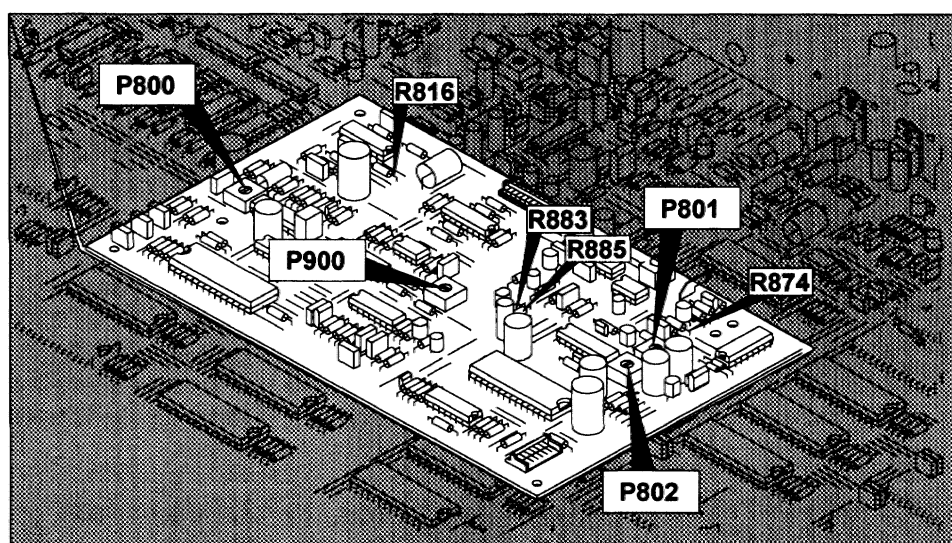
Introduction

The potentiometers P800 (Hor. Par), P801 (pulse 1) and P802 (pulse 2) on the sub module "NS Correction 76 2172S" have to be adjusted when the projector operates on a **RGB** signal with **standard line frequency**.

The potentiometer P900 (Offset voltage N/S BOW) on the sub module "NS Correction 76 2172S" has to be adjusted when the projector operates on a signal with **highest line frequency**.

Adjustments

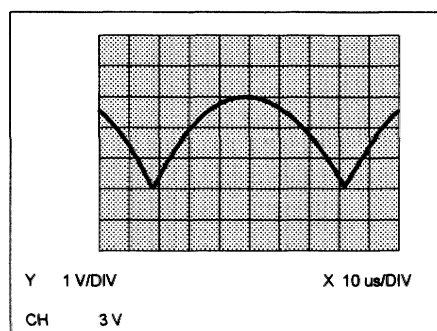
Location of controls and signal reference points



76 2172c

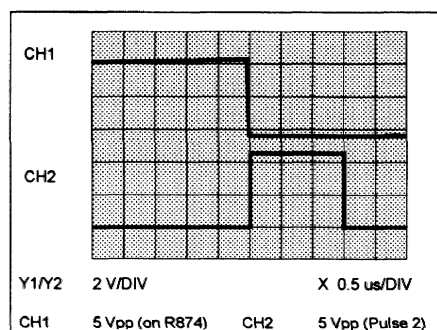
Amplitude of the horizontal parabola P800

- connect an oscilloscope to the resistor R816 (pin 14 IC800)
- adjust potentiometer P800 for an amplitude of the parabolic signal of 3.0Vpp on the resistor R816.



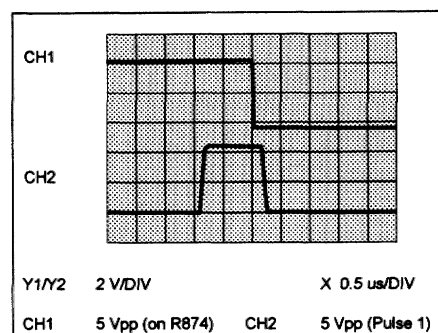
Pulse duration PULSE 2 P802 '1.5us'

- connect an oscilloscope to the resistor R885 (e Q804).
- adjust the potentiometer P802 for a pulse duration of the Pulse 2 of 1.5us on emitter of transistor Q804.



Pulse duration PULSE 1 P801 '2.5us'

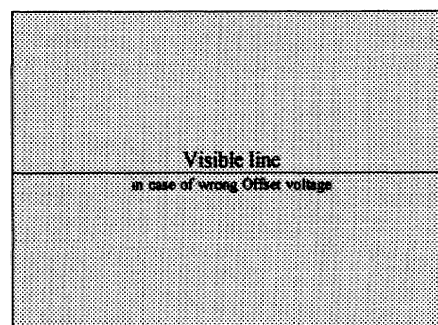
- connect an oscilloscope to the resistor R883 (e Q803).
- adjust the potentiometer P801 for a pulse duration of the Pulse 1 of 2.5us on emitter of transistor Q803.



Offset Voltage N/S BOW P900

In practice, the Offset voltage has to be adjusted while looking at the displayed picture.

An incorrect Offset voltage causes a visible line in the vertical center of the image.



Adjustment:

- the projector has to operate on a signal with the **highest line frequency**.
- selects the 'Geometry' menu (refer to the owner's manual of the projector) and selects 'Top-Bottom (N-S)' sub menu.
- Adjust Top and Bottom keystone for a bar scale number of 50 (no corrections).
- Adjust Top and Bottom Bow for zero bow distortion at top and bottom of the picture.
- If a line in the vertical center appears after the adjustment of top and bottom Bow, adjust the potentiometer P900 slowly until this line is no more visible.
- Re-adjust Top and Bottom keystone for straight lines at top and bottom of the picture.

Parts listing 76 2172 CPL

ITEM NO.	SIT.	DESCRIPTION
76 1872S		UN CNV PJ49R *800 C_OVER
76 2172S		UN CNV PJ49 G801 NS_CORR

11 2362	C...	C N750MI 100P J 63E2
11 2368	C...	C N750MI 330P J 63E2
11 2681	C...	C N750MI 15P G500E2
11 2743	C...	C CE MI 2N2K 63E2
11 2733	C...	C CE MI 330P K100E2
11 27741	C...	C CE MI 100N S 63E1
11 2774	C..1	C CE MI 100N S 63E2
11 1571	C..2	C EL RA 2M2M350E2 85
11 5932	C..3	C PP RA 4N7J 63E2
11 59081	C..4	C PP RA 470P J100E2 1830
11 3724	C..5	C POMERA 100N K 63E2
11 3728	C..6	C POMERA 220N K 63E2
11 3728	C..7	C POMERA 220N K 63E2
11 11565	C..8	C EL AX 10M Z 25E7 85
11 2230	C..9	C NPO MI 10P G 63E2
11 2242	C..A	C NPO MI 100P J 63E2
11 2242	C..B	C NPO MI 100P J 63E2
11 2739	C..Z	C CE MI 1N K100E2
11 3724	C.10	C POMERA 100N K 63E2
11 3724	C.11	C POMERA 100N K 63E2
11 1678	C.12	C EL BRA 10M M 25E2 85
11 37181	C.13	C POMERA 33N K100E2
11 1500	C.14	C EL RA 47M M 10E2 85
11 1500	C.15	C EL RA 47M M 10E2 85
11 11565	C.16	C EL AX 10M Z 25E7 85
11 2240	C.17	C NPO MI 68P J 63E2
11 1531	C.18	C EL RA 10M M 35E2 85
11 37161	C.19	C POMERA 22N K100E2
11 1532	C.20	C EL RA 22M M 35E2 85
11 1466	C.21	C EL RA 100M Z 16E2 85
11 1548	C.22	C EL RA 2M2M 50E2 85
11 1466	C.23	C EL RA 100M Z 16E2 85
11 1548	C.24	C EL RA 2M2M 50E2 85
11 1466	C.25	C EL RA 100M Z 16E2 85
11 1548	C.26	C EL RA 2M2M 50E2 85
11 1466	C.27	C EL RA 100M Z 16E2 85
11 1548	C.28	C EL RA 2M2M 50E2 85
11 2774	C.29	C CE MI 100N S 63E2
11 2774	C.30	C CE MI 100N S 63E2
11 2774	C.31	C CE MI 100N S 63E2
11 1479	C.32	C EL RA 470M Z 25E2 85
11 1548	C.33	C EL RA 2M2M 50E2 85
11 1548	C.34	C EL RA 2M2M 50E2 85
11 1548	C.35	C EL RA 2M2M 50E2 85
11 1548	C.36	C EL RA 2M2M 50E2 85
11 1164	C.37	C EL AX1000M T 25E14 85
11 14885	C.38	C EL RA 220M Z 40E2 85
11 3724	C.39	C POMERA 100N K 63E2
11 11565	C.40	C EL AX 10M Z 25E7 85
11 1163	C.41	C EL AX 470M T 25E14 85
11 1550	C.42	C EL RA 4M7M 50E2 85
11 1550	C.43	C EL RA 4M7M 50E2 85
11 11565	C.44	C EL AX 10M Z 25E7 85
11 1479	C.45	C EL RA 470M Z 25E2 85
11 1479	C.46	C EL RA 470M Z 25E2 85
11 1479	C.47	C EL RA 470M Z 25E2 85
11 1466	C.50	C EL RA 100M Z 16E2 85
11 1500	C.51	C EL RA 47M M 10E2 85
11 2364	C.55	C N750MI 150P J 63E2
11 1546	C.57	C EL RA 1M M 50E2 85
11 1546	C.58	C EL RA 1M M 50E2 85
11 1546	C.59	C EL RA 1M M 50E2 85

11 1546	C.60	C EL RA 1M M 50E2 85
11 1546	C.61	C EL RA 1M M 50E2 85
11 1546	C.62	C EL RA 1M M 50E2 85
11 2774	C.67	C CE MI 100N S 63E2
11 2774	C.68	C CE MI 100N S 63E2
11 2774	C.69	C CE MI 100N S 63E2
11 1161	C.70	C EL AX 100M T 25E6 85
11 1161	C.71	C EL AX 100M T 25E6 85
11 1500	C.72	C EL RA 47M M 10E2 85
11 2774	C.73	C CE MI 100N S 63E2
11 2774	C.82	C CE MI 100N S 63E2
11 2774	C.83	C CE MI 100N S 63E2
11 3724	C.90	C POMERA 100N K 63E2
11 14885	C.93	C EL RA 220M Z 40E2 85
11 14885	C.94	C EL RA 220M Z 40E2 85
11 14885	C.95	C EL RA 220M Z 40E2 85
11 14885	C.96	C EL RA 220M Z 40E2 85
11 2357	C.97	C N750MI 39P G 63E2
11 27741	C120	C CE MI 100N S 63E1
11 27741	C121	C CE MI 100N S 63E1
11 27741	C122	C CE MI 100N S 63E1
11 27741	C123	C CE MI 100N S 63E1
11 2739	C124	C CE MI 1N K100E2
11 27741	C125	C CE MI 100N S 63E1
11 27741	C126	C CE MI 100N S 63E1
11 27741	C127	C CE MI 100N S 63E1
11 27741	C128	C CE MI 100N S 63E1
11 27741	C128	C CE MI 100N S 63E1
11 1466	C129	C EL RA 100M Z 16E2 85
11 27741	C130	C CE MI 100N S 63E1
11 27741	C131	C CE MI 100N S 63E1
11 27741	C132	C CE MI 100N S 63E1
11 27741	C133	C CE MI 100N S 63E1
11 27741	C135	C CE MI 100N S 63E1
11 27741	C136	C CE MI 100N S 63E1
11 27741	C137	C CE MI 100N S 63E1
11 1466	C138	C EL RA 100M Z 16E2 85
11 27741	C139	C CE MI 100N S 63E1
11 27741	C140	C CE MI 100N S 63E1
11 27741	C141	C CE MI 100N S 63E1
11 27741	C142	C CE MI 100N S 63E1
11 1466	C143	C EL RA 100M Z 16E2 85
11 27741	C145	C CE MI 100N S 63E1
11 1476	C150	C EL RA 47M M 25E2 85
11 1487	C151	C EL RA 100M Z 40E2 85
11 2235	C262	C NPO MI 27P G 63E2
11 2235	C263	C NPO MI 27P G 63E2
11 2242	C324	C NPO MI 100P J 63E2
11 2242	C325	C NPO MI 100P J 63E2
11 2242	C326	C NPO MI 100P J 63E2
11 2242	C327	C NPO MI 100P J 63E2
11 2242	C340	C NPO MI 100P J 63E2
11 2242	C341	C NPO MI 100P J 63E2
11 2242	C342	C NPO MI 100P J 63E2
11 2242	C343	C NPO MI 100P J 63E2
11 2774	C700	C CE MI 100N S 63E2
11 2774	C701	C CE MI 100N S 63E2
11 2774	C702	C CE MI 100N S 63E2
11 5940	C703	C PP RA 10N J 63E2
11 59181	C704	C PP RA 1N2J100E2
11 1548	C705	C EL RA 2M2M 50E2 85
11 1510	C706	C EL RA 22M M 25E2 85
11 3730	C707	C POMERA 330N K 63E2
13 1621	D..2	D S 1N4148 075160 DO35

13 1621	D..4	D S 1N4148	075150 DO35	13 4125	I.21	U 34084	DIP14 POPAMP
13 1621	D..6	D S 1N4148	075150 DO35	13 4125	I.22	U 34084	DIP14 POPAMP
13 1621	D..7	D S 1N4148	075150 DO35	13 4125	I.23	U 34084	DIP14 POPAMP
13 16361	D..8	D Y BAT85	030200 DO35	13 4125	I.24	U 34084	DIP14 POPAMP
13 1628	D..9	D S BAW62	075200 DO35	13 4125	I.25	U 34084	DIP14 POPAMP
13 16361	D.10	D Y BAT85	030200 DO35	13 4125	I.26	U 34084	DIP14 POPAMP
13 16361	D.13	D Y BAT85	030200 DO35	13 4125	I.27	U 34084	DIP14 POPAMP
13 16361	D.14	D Y BAT85	030200 DO35	13 4125	I.28	U 34084	DIP14 POPAMP
13 16361	D.15	D Y BAT85	030200 DO35	13 4124	I.29	U 082 TL	DIP8 POPAMP
13 1621	D.16	D S 1N4148	075150 DO35	13 4002	I.30	U 7812	TO220 PSTAB
13 1621	D.25	D S 1N4148	075150 DO35	13 4016	I.31	U 7912	TO220 PSTAB
13 1621	D.26	D S 1N4148	075150 DO35	13 4125	I.32	U 34084	DIP14 POPAMP
13 1954	D.27	D R BYW29	20008A TO220	13 4026	I.37	U 317T	TO220 PSTAB
13 1637	D.28	D R BA158	600400 DO7	13 4027	I.38	U 337T	TO220 PSTAB
13 1954	D.29	D R BYW29	20008A TO220	13 2833	I.41	U 76013 SC	DIP28 PD_POT
13 1637	D.30	D R BA158	600400 DO7	13 2833	I.42	U 76013 SC	DIP28 PD_POT
13 1733	D.31	D STB 2V 0W33 C	SOD27	13 2833	I.43	U 76013 SC	DIP28 PD_POT
13 1733	D.32	D STB 2V 0W33 C	SOD27	13 2833	I.44	U 76013 SC	DIP28 PD_POT
13 1733	D.33	D STB 2V 0W33 C	SOD27	13 2833	I.45	U 76013 SC	DIP28 PD_POT
13 1733	D.34	D STB 2V 0W33 C	SOD27	13 2833	I.46	U 76013 SC	DIP28 PD_POT
13 1621	D.50	D S 1N4148	075150 DO35	13 2833	I.47	U 76013 SC	DIP28 PD_POT
13 1621	D.51	D S 1N4148	075150 DO35	13 2833	I.48	U 76013 SC	DIP28 PD_POT
13 1621	D.52	D S 1N4148	075150 DO35	13 2833	I.49	U 76013 SC	DIP28 PD_POT
13 1621	D.53	D S 1N4148	075150 DO35	13 2833	I.50	U 76013 SC	DIP28 PD_POT
13 1621	D.55	D S 1N4148	075150 DO35	13 2833	I.51	U 76013 SC	DIP28 PD_POT
13 1621	D.56	D S 1N4148	075150 DO35	13 2833	I.52	U 76013 SC	DIP28 PD_POT
13 1621	D.57	D S 1N4148	075150 DO35	13 2833	I.53	U 76013 SC	DIP28 PD_POT
13 1621	D.58	D S 1N4148	075150 DO35	13 2833	I.54	U 76013 SC	DIP28 PD_POT
13 1621	D.60	D S 1N4148	075150 DO35	13 2833	I.55	U 76013 SC	DIP28 PD_POT
13 16361	D.61	D Y BAT85	030200 DO35	13 2833	I.56	U 76013 SC	DIP28 PD_POT
13 1637	D100	D R BA158	600400 DO7	13 2833	I.57	U 76013 SC	DIP28 PD_POT
13 1637	D101	D R BA158	600400 DO7	13 2833	I.58	U 76013 SC	DIP28 PD_POT
13 1637	D102	D R BA158	600400 DO7	13 2833	I.59	U 76013 SC	DIP28 PD_POT
13 1637	D103	D R BA158	600400 DO7	13 2833	I.60	U 76013 SC	DIP28 PD_POT
13 1637	D104	D R BA158	600400 DO7	13 2833	I.61	U 76013 SC	DIP28 PD_POT
13 1637	D105	D R BA158	600400 DO7	13 2833	I.62	U 76013 SC	DIP28 PD_POT
13 1637	D106	D R BA158	600400 DO7	13 2833	I.63	U 76013 SC	DIP28 PD_POT
13 1637	D107	D R BA158	600400 DO7	13 2833	I.64	U 76013 SC	DIP28 PD_POT
13 1637	D604	D R BA158	600400 DO7	13 4124	I600	U 082 TL	DIP8 POPAMP
13 1637	D605	D R BA158	600400 DO7	13 7207	I700	U 1489	DIP14 PL_REC
13 1637	D606	D R BA158	600400 DO7	13 4032	I701	U 78L05	TO92 PSTAB
13 1637	D607	D R BA158	600400 DO7	13 7206	I703	U 1488	DIP14 PL_DVR
13 1621	D610	D S 1N4148	075150 DO35	13 2824	I704	U 2800 TBA	DIP14 PIRREC
13 1621	D611	D S 1N4148	075150 DO35				
13 1621	D612	D S 1N4148	075150 DO35				
13 1621	D613	D S 1N4148	075150 DO35				
13 1681	D700	D O BPW41	032				
13 4125	I..1	U 34084	DIP14 POPAMP	31 35251	J1..	J EUR2C MBS P64 E1 C2S1.6	
13 4114	I..2	U 393 LM	DIP8 PV_COM	31 32862	J100	J MD1 MBT P 2 E1SN	
13 27655	I..3	U 1496 MC	DIP14 PBAL_M	31 32862	J101	J MD1 MBT P 2 E1SN	
13 27655	I..4	U 1496 MC	DIP14 PBAL_M	31 32862	J102	J MD1 MBT P 2 E1SN	
13 4125	I..5	U 34084	DIP14 POPAMP	31 32862	J103	J MD1 MBT P 2 E1SN	
13 4125	I..6	U 34084	DIP14 POPAMP	31 32862	J104	J MD1 MBT P 2 E1SN	
13 7391	I..7	U 4053B	DIP16 PM/DEM	31 32862	J105	J MD1 MBT P 2 E1SN	
13 4113	I..8	U 084 TL	DIP14 POPAMP	31 32862	J106	J MD1 MBT P 2 E1SN	
13 4113	I..9	U 084 TL	DIP14 POPAMP	31 32862	J111	J MD1 MBT P 2 E1SN	
13 27655	I.10	U 1496 MC	DIP14 PBAL_M	31 35251	J2..	J EUR2C MBS P64 E1 C2S1.6	
13 27655	I.11	U 1496 MC	DIP14 PBAL_M	31 35010	J700	J DE S8 FBS P 9 FU MFT	
13 27655	I.12	U 1496 MC	DIP14 PBAL_M	31 35000	J701	J DE S8 MBS P 9 FU M BL	
13 27655	I.13	U 1496 MC	DIP14 PBAL_M				
13 27655	I.14	U 1496 MC	DIP14 PBAL_M	30 61582	L...	CH AX NS 1.5 MH	
13 27655	I.15	U 1496 MC	DIP14 PBAL_M	77 5164	L..1	COIL CH HOR DEF	
13 27655	I.16	U 1496 MC	DIP14 PBAL_M	77 5164	L..2	COIL CH HOR DEF	
13 27655	I.17	U 1496 MC	DIP14 PBAL_M	30 61582	L700	CH AX NS 1.5 MH	
13 7391	I.18	U 4053B	DIP16 PM/DEM	10 6725	P..1	R TCE H500E K 0W5 S10TS3386P	
13 7391	I.19	U 4053B	DIP16 PM/DEM	10 6725	P..2	R TCE H500E K 0W5 S10TS3386P	
13 7391	I.20	U 4053B	DIP16 PM/DEM	78 0044	PC..	PCS PJ49 800 CNV 761772	
				13 2515	Q..1	Q BF470 .870 P P TO126 25030	

Convergence Module

76 2172

Sub module 76 1872S

Sub module 76 2172S

13 1491 Q..2 Q BSX20.2369 N SS TO18 015A2
 13 1491 Q..3 Q BSX20.2369 N SS TO18 015A2
 13 1428 Q..4 Q BC548C N SS TO92 030A1
 13 1428 Q..5 Q BC548C N SS TO92 030A1
 13 2910 Q..6 Q BS170 FN SS TO92 060A5
 13 14131 Q..7 Q BC557B P SS TO92 045A1
 13 2910 Q..8 Q BS170 FN SS TO92 060A5
 13 14131 Q..9 Q BC557B P SS TO92 045A1
 13 14295 Q.10 Q BC549B N SS TO92 030A1
 13 14295 Q.11 Q BC549B N SS TO92 030A1
 13 14295 Q.12 Q BC549B N SS TO92 030A1
 13 14131 Q.13 Q BC557B P SS TO92 045A1
 13 14295 Q.14 Q BC549B N SS TO92 030A1
 13 14295 Q.15 Q BC549B N SS TO92 030A1
 13 14295 Q.16 Q BC549B N SS TO92 030A1
 13 14131 Q.17 Q BC557B P SS TO92 045A1
 13 14295 Q.18 Q BC549B N SS TO92 030A1
 13 14131 Q.19 Q BC557B P SS TO92 045A1
 13 14295 Q.20 Q BC549B N SS TO92 030A1
 13 14295 Q.21 Q BC549B N SS TO92 030A1
 13 14295 Q.22 Q BC549B N SS TO92 030A1
 13 14295 Q.23 Q BC549B N SS TO92 030A1
 13 14295 Q.24 Q BC549B N SS TO92 030A1
 13 14131 Q.25 Q BC557B P SS TO92 045A1
 13 1411 Q.29 Q BC549C N SS TO92 030A1
 13 2941 Q.30 Q IRF632 FN P TO220 20008
 13 2942 Q.31 Q IRF9630 FP P TO220 20005
 13 2941 Q.32 Q IRF632 FN P TO220 20008
 13 2942 Q.33 Q IRF9630 FP P TO220 20005
 13 14182 Q.34 Q BC559C P SS TO92 030A1
 13 14071 Q.50 Q BC547B N SS TO92 045A1
 13 14131 Q.51 Q BC557B P SS TO92 045A1
 13 2944 Q100 Q BCY87 2N SS TO71 040A2
 13 2944 Q101 Q BCY87 2N SS TO71 040A2
 13 2944 Q102 Q BCY87 2N SS TO71 040A2
 13 2944 Q103 Q BCY87 2N SS TO71 040A2
 13 2552 Q104 Q BF423 P SS TO92 25050
 13 2552 Q105 Q BF423 P SS TO92 25050
 13 2552 Q106 Q BF423 P SS TO92 25050
 13 2552 Q107 Q BF423 P SS TO92 25050
 13 2579 Q108 Q BD651 DN P TO220 12008
 13 2579 Q109 Q BD651 DN P TO220 12008
 13 2579 Q110 Q BD651 DN P TO220 12008
 13 2579 Q111 Q BD651 DN P TO220 12008
 13 2909 Q112 Q BD652 P P TO220 12008
 13 2909 Q113 Q BD652 P P TO220 12008
 13 2909 Q114 Q BD652 P P TO220 12008
 13 2909 Q115 Q BD652 P P TO220 12008
 13 2944 Q601 Q BCY87 2N SS TO71 040A2
 13 2552 Q603 Q BF423 P SS TO92 25050
 13 2579 Q605 Q BD651 DN P TO220 12008
 13 2909 Q607 Q BD652 P P TO220 12008
 13 1491 Q700 Q BSX20.2369 N SS TO18 015A2
 13 14131 Q701 Q BC557B P SS TO92 045A1
 13 14071 Q702 Q BC547B N SS TO92 045A1

10 1132 R.11 R CF H470E J 0W25
 10 1132 R.12 R CF H470E J 0W25
 10 1148 R.13 R CF H 10K J 0W25
 10 1148 R.14 R CF H 10K J 0W25
 10 1140 R.15 R CF H 2K2 J 0W25
 10 1140 R.16 R CF H 2K2 J 0W25
 10 1147 R.17 R CF H 8K2 J 0W25
 10 1142 R.18 R CF H 3K3 J 0W25
 10 1139 R.19 R CF H 1K8 J 0W25
 10 1160 R.20 R CF H100K J 0W25
 10 1136 R.21 R CF H 1K J 0W25
 10 1144 R.22 R CF H 4K7 J 0W25
 10 1156 R.23 R CF H 47K J 0W25
 10 1136 R.24 R CF H 1K J 0W25
 10 1144 R.25 R CF H 4K7 J 0W25
 10 1160 R.26 R CF H100K J 0W25
 10 1141 R.27 R CF H 2K7 J 0W25
 10 1142 R.28 R CF H 3K3 J 0W25
 10 1148 R.29 R CF H 10K J 0W25
 10 1132 R.30 R CF H470E J 0W25
 10 1132 R.31 R CF H470E J 0W25
 10 1148 R.32 R CF H 10K J 0W25
 10 1148 R.33 R CF H 10K J 0W25
 10 1140 R.34 R CF H 2K2 J 0W25
 10 1140 R.35 R CF H 2K2 J 0W25
 10 1147 R.36 R CF H 8K2 J 0W25
 10 1142 R.37 R CF H 3K3 J 0W25
 10 1139 R.38 R CF H 1K8 J 0W25
 10 1156 R.39 R CF H 47K J 0W25
 10 1140 R.40 R CF H 2K2 J 0W25
 10 1144 R.41 R CF H 4K7 J 0W25
 10 1156 R.42 R CF H 47K J 0W25
 10 1136 R.43 R CF H 1K J 0W25
 10 1138 R.44 R CF H 1K5 J 0W25
 10 1148 R.45 R CF H 10K J 0W25
 10 1148 R.46 R CF H 10K J 0W25
 10 1148 R.47 R CF H 10K J 0W25
 10 1138 R.49 R CF H 1K5 J 0W25
 10 1142 R.50 R CF H 3K3 J 0W25
 10 1148 R.51 R CF H 10K J 0W25
 10 1148 R.52 R CF H 10K J 0W25
 10 1122 R.53 R CF H 68E J 0W25
 10 1138 R.54 R CF H 1K5 J 0W25
 10 1148 R.55 R CF H 10K J 0W25
 10 1148 R.56 R CF H 10K J 0W25
 10 1148 R.57 R CF H 10K J 0W25
 10 1152 R.58 R CF H 22K J 0W25
 10 1138 R.59 R CF H 1K5 J 0W25
 10 1142 R.60 R CF H 3K3 J 0W25
 10 1148 R.61 R CF H 10K J 0W25
 10 1148 R.62 R CF H 10K J 0W25
 10 1152 R.63 R CF H 22K J 0W25
 10 1139 R.64 R CF H 1K8 J 0W25
 10 1140 R.65 R CF H 2K2 J 0W25
 10 1140 R.66 R CF H 2K2 J 0W25
 10 1139 R.67 R CF H 1K8 J 0W25
 10 1140 R.68 R CF H 2K2 J 0W25
 10 1140 R.69 R CF H 2K2 J 0W25
 10 1139 R.70 R CF H 1K8 J 0W25
 10 1140 R.71 R CF H 2K2 J 0W25
 10 1140 R.72 R CF H 2K2 J 0W25
 10 1139 R.73 R CF H 1K8 J 0W25
 10 1140 R.74 R CF H 2K2 J 0W25
 10 1140 R.75 R CF H 2K2 J 0W25
 34 8100 R.78 W_U JUMP 0.6 AUT
 10 1140 R.79 R CF H 2K2 J 0W25
 10 1140 R.80 R CF H 2K2 J 0W25
 10 1148 R.81 R CF H 10K J 0W25

10 1133 R... R CF H560E J 0W25
 10 1155 R... R CF H 39K J 0W25
 10 1145 R... R CF H 5K6 J 0W25
 10 1159 R..1 R CF H 82K J 0W25
 10 1159 R..2 R CF H 82K J 0W25
 10 1159 R..3 R CF H 82K J 0W25
 10 1136 R..4 R CF H 1K J 0W25
 10 1136 R..4 R CF H 1K J 0W25
 10 1136 R..5 R CF H 1K J 0W25
 10 1172 R..6 R CF H 1M J 0W25
 10 1142 R..7 R CF H 3K3 J 0W25
 10 1236 R..10 R CF H 1K J 0W5

10 1136	R.82	R CF H 1K J 0W25	
10 1152	R.83	R CF H 22K J 0W25	
10 1152	R.84	R CF H 22K J 0W25	
10 1139	R.85	R CF H 1K8 J 0W25	
10 1141	R.86	R CF H 2K7 J 0W25	
10 1136	R.87	R CF H 1K J 0W25	
10 1148	R.88	R CF H 10K J 0W25	
10 1152	R.89	R CF H 22K J 0W25	
34 8100	R.90	W_U JUMP 0.6	AUT
10 1140	R.91	R CF H 2K2 J 0W25	
10 1140	R.92	R CF H 2K2 J 0W25	
10 1148	R.93	R CF H 10K J 0W25	
10 1136	R.94	R CF H 1K J 0W25	
10 1152	R.95	R CF H 22K J 0W25	
10 1152	R.96	R CF H 22K J 0W25	
10 1139	R.97	R CF H 1K8 J 0W25	
10 1141	R.98	R CF H 2K7 J 0W25	
10 1136	R.99	R CF H 1K J 0W25	
10 1148	R100	R CF H 10K J 0W25	
10 1152	R101	R CF H 22K J 0W25	
34 8100	R102	W_U JUMP 0.6	AUT
10 1140	R103	R CF H 2K2 J 0W25	
10 1140	R104	R CF H 2K2 J 0W25	
10 1148	R105	R CF H 10K J 0W25	
10 1136	R106	R CF H 1K J 0W25	
10 1152	R107	R CF H 22K J 0W25	
10 1152	R108	R CF H 22K J 0W25	
10 1139	R109	R CF H 1K8 J 0W25	
10 1141	R110	R CF H 2K7 J 0W25	
10 1136	R111	R CF H 1K J 0W25	
10 1148	R112	R CF H 10K J 0W25	
10 1152	R113	R CF H 22K J 0W25	
34 8100	R114	W_U JUMP 0.6	AUT
10 1140	R115	R CF H 2K2 J 0W25	
10 1140	R116	R CF H 2K2 J 0W25	
10 1148	R117	R CF H 10K J 0W25	
10 1136	R118	R CF H 1K J 0W25	
10 1152	R119	R CF H 22K J 0W25	
10 1152	R120	R CF H 22K J 0W25	
10 1139	R121	R CF H 1K8 J 0W25	
10 1141	R122	R CF H 2K7 J 0W25	
10 1136	R123	R CF H 1K J 0W25	
10 1148	R124	R CF H 10K J 0W25	
10 1152	R125	R CF H 22K J 0W25	
34 8100	R126	W_U JUMP 0.6	AUT
10 1140	R127	R CF H 2K2 J 0W25	
10 1140	R128	R CF H 2K2 J 0W25	
10 1148	R129	R CF H 10K J 0W25	
10 1147	R130	R CF H 8K2 J 0W25	
10 1124	R131	R CF H100E J 0W25	
10 1124	R132	R CF H100E J 0W25	
10 1139	R133	R CF H 1K8 J 0W25	
10 1142	R134	R CF H 3K3 J 0W25	
10 1136	R135	R CF H 1K J 0W25	
10 1148	R136	R CF H 10K J 0W25	
10 1152	R137	R CF H 22K J 0W25	
34 8100	R138	W_U JUMP 0.6	AUT
10 1140	R139	R CF H 2K2 J 0W25	
10 1140	R140	R CF H 2K2 J 0W25	
10 1148	R141	R CF H 10K J 0W25	
10 1145	R142	R CF H 5K6 J 0W25	
10 1124	R143	R CF H100E J 0W25	
10 1124	R144	R CF H100E J 0W25	
10 1139	R145	R CF H 1K8 J 0W25	
10 1141	R146	R CF H 2K7 J 0W25	
10 1136	R147	R CF H 1K J 0W25	
10 1148	R148	R CF H 10K J 0W25	
10 1152	R149	R CF H 22K J 0W25	
34 8100	R150	W_U JUMP 0.6	AUT
10 1140	R151	R CF H 2K2 J 0W25	
10 1140	R152	R CF H 2K2 J 0W25	
10 1148	R153	R CF H 10K J 0W25	
10 1146	R154	R CF H 6K8 J 0W25	
10 1124	R155	R CF H100E J 0W25	
10 1124	R156	R CF H100E J 0W25	
10 1139	R157	R CF H 1K8 J 0W25	
10 1141	R158	R CF H 2K7 J 0W25	
10 1136	R159	R CF H 1K J 0W25	
10 1148	R160	R CF H 10K J 0W25	
10 1152	R161	R CF H 22K J 0W25	
34 8100	R162	W_U JUMP 0.6	AUT
10 1140	R163	R CF H 2K2 J 0W25	
10 1140	R164	R CF H 2K2 J 0W25	
10 1148	R165	R CF H 10K J 0W25	
10 1146	R166	R CF H 6K8 J 0W25	
10 1124	R167	R CF H100E J 0W25	
10 1124	R168	R CF H100E J 0W25	
10 1139	R169	R CF H 1K8 J 0W25	
10 1141	R170	R CF H 2K7 J 0W25	
10 1136	R171	R CF H 1K J 0W25	
10 1148	R172	R CF H 10K J 0W25	
10 1152	R173	R CF H 22K J 0W25	
10 1144	R174	R CF H 4K7 J 0W25	
10 1140	R175	R CF H 2K2 J 0W25	
10 1140	R176	R CF H 2K2 J 0W25	
10 1144	R177	R CF H 4K7 J 0W25	
10 1140	R178	R CF H 2K2 J 0W25	
10 1140	R179	R CF H 2K2 J 0W25	
10 1144	R180	R CF H 4K7 J 0W25	
10 1140	R181	R CF H 2K2 J 0W25	
10 1140	R182	R CF H 2K2 J 0W25	
10 1144	R183	R CF H 4K7 J 0W25	
10 1140	R184	R CF H 2K2 J 0W25	
10 1140	R185	R CF H 2K2 J 0W25	
10 1144	R186	R CF H 4K7 J 0W25	
10 1140	R187	R CF H 2K2 J 0W25	
10 1140	R188	R CF H 2K2 J 0W25	
10 1144	R189	R CF H 4K7 J 0W25	
10 1140	R190	R CF H 2K2 J 0W25	
10 1140	R191	R CF H 2K2 J 0W25	
10 1144	R192	R CF H 4K7 J 0W25	
10 1140	R193	R CF H 2K2 J 0W25	
10 1140	R194	R CF H 2K2 J 0W25	
10 1144	R195	R CF H 4K7 J 0W25	
10 1140	R196	R CF H 2K2 J 0W25	
10 1140	R197	R CF H 2K2 J 0W25	
10 1144	R198	R CF H 4K7 J 0W25	
10 1140	R199	R CF H 2K2 J 0W25	
10 1140	R200	R CF H 2K2 J 0W25	
10 1144	R201	R CF H 4K7 J 0W25	
10 1140	R202	R CF H 2K2 J 0W25	
10 1140	R203	R CF H 2K2 J 0W25	
10 1144	R204	R CF H 4K7 J 0W25	
10 1140	R205	R CF H 2K2 J 0W25	
10 1140	R206	R CF H 2K2 J 0W25	
10 1144	R207	R CF H 4K7 J 0W25	
10 1140	R208	R CF H 2K2 J 0W25	
10 1140	R209	R CF H 2K2 J 0W25	
10 1144	R210	R CF H 4K7 J 0W25	
10 1140	R211	R CF H 2K2 J 0W25	
10 1140	R212	R CF H 2K2 J 0W25	
10 1144	R213	R CF H 4K7 J 0W25	
10 1140	R214	R CF H 2K2 J 0W25	
10 1140	R215	R CF H 2K2 J 0W25	
10 1144	R216	R CF H 4K7 J 0W25	
10 1140	R217	R CF H 2K2 J 0W25	

Convergence Module

76 2172

Sub module 76 1872S

Sub module 76 2172S

10 1140	R218	R	CF	H	2K2	J	0W25	10 1148	R306	R	CF	H	10K	J	0W25
10 1144	R219	R	CF	H	4K7	J	0W25	10 1148	R307	R	CF	H	10K	J	0W25
10 1140	R220	R	CF	H	2K2	J	0W25	10 1148	R308	R	CF	H	10K	J	0W25
10 1140	R221	R	CF	H	2K2	J	0W25	10 1148	R309	R	CF	H	10K	J	0W25
10 1132	R222	R	CF	H	470E	J	0W25	10 1148	R310	R	CF	H	10K	J	0W25
10 1132	R223	R	CF	H	470E	J	0W25	10 1148	R311	R	CF	H	10K	J	0W25
10 1132	R224	R	CF	H	470E	J	0W25	10 1148	R312	R	CF	H	10K	J	0W25
10 1132	R225	R	CF	H	470E	J	0W25	10 1148	R313	R	CF	H	10K	J	0W25
10 1149	R226	R	CF	H	12K	J	0W25	10 1148	R314	R	CF	H	10K	J	0W25
10 1144	R227	R	CF	H	4K7	J	0W25	10 1148	R315	R	CF	H	10K	J	0W25
10 1149	R233	R	CF	H	12K	J	0W25	10 1148	R316	R	CF	H	10K	J	0W25
10 1144	R234	R	CF	H	4K7	J	0W25	10 1148	R317	R	CF	H	10K	J	0W25
10 1149	R240	R	CF	H	12K	J	0W25	10 1148	R318	R	CF	H	10K	J	0W25
10 1144	R241	R	CF	H	4K7	J	0W25	10 1148	R319	R	CF	H	10K	J	0W25
10 1149	R247	R	CF	H	12K	J	0W25	10 1148	R320	R	CF	H	10K	J	0W25
10 1144	R248	R	CF	H	4K7	J	0W25	10 1148	R321	R	CF	H	10K	J	0W25
10 28241	R254	R	MF	H	91E	G	0W6	10 1148	R322	R	CF	H	10K	J	0W25
10 1126	R255	R	CF	H	150E	J	0W25	10 1148	R323	R	CF	H	10K	J	0W25
10 1125	R256	R	CF	H	120E	J	0W25	10 1148	R324	R	CF	H	10K	J	0W25
10 1121	R257	R	CF	H	56E	J	0W25	10 1148	R325	R	CF	H	10K	J	0W25
10 1165	R258	R	CF	H	270K	J	0W25	10 1148	R326	R	CF	H	10K	J	0W25
10 1136	R259	R	CF	H	1K	J	0W25	10 1148	R327	R	CF	H	10K	J	0W25
10 1148	R260	R	CF	H	10K	J	0W25	10 1148	R328	R	CF	H	10K	J	0W25
10 1148	R261	R	CF	H	10K	J	0W25	10 1148	R329	R	CF	H	10K	J	0W25
10 1148	R262	R	CF	H	10K	J	0W25	10 1148	R330	R	CF	H	10K	J	0W25
10 1148	R263	R	CF	H	10K	J	0W25	10 1148	R331	R	CF	H	10K	J	0W25
10 1151	R264	R	CF	H	18K	J	0W25	10 1148	R332	R	CF	H	10K	J	0W25
10 1151	R265	R	CF	H	18K	J	0W25	10 1148	R333	R	CF	H	10K	J	0W25
10 1151	R266	R	CF	H	18K	J	0W25	10 1148	R334	R	CF	H	10K	J	0W25
10 1151	R267	R	CF	H	18K	J	0W25	10 1148	R335	R	CF	H	10K	J	0W25
10 1151	R268	R	CF	H	18K	J	0W25	10 1148	R336	R	CF	H	10K	J	0W25
10 1151	R269	R	CF	H	18K	J	0W25	10 1148	R337	R	CF	H	10K	J	0W25
10 1151	R270	R	CF	H	18K	J	0W25	10 1148	R338	R	CF	H	10K	J	0W25
10 1151	R271	R	CF	H	18K	J	0W25	10 1148	R339	R	CF	H	10K	J	0W25
10 1148	R272	R	CF	H	10K	J	0W25	10 1148	R340	R	CF	H	10K	J	0W25
10 1148	R273	R	CF	H	10K	J	0W25	10 1148	R341	R	CF	H	10K	J	0W25
10 1148	R274	R	CF	H	10K	J	0W25	10 1148	R342	R	CF	H	10K	J	0W25
10 1148	R275	R	CF	H	10K	J	0W25	10 1148	R343	R	CF	H	10K	J	0W25
10 1151	R276	R	CF	H	18K	J	0W25	10 1148	R344	R	CF	H	10K	J	0W25
10 1151	R277	R	CF	H	18K	J	0W25	10 1148	R345	R	CF	H	10K	J	0W25
10 1151	R278	R	CF	H	18K	J	0W25	10 1148	R346	R	CF	H	10K	J	0W25
10 1151	R279	R	CF	H	18K	J	0W25	10 1148	R347	R	CF	H	10K	J	0W25
10 1151	R280	R	CF	H	18K	J	0W25	10 1148	R348	R	CF	H	10K	J	0W25
10 1151	R281	R	CF	H	18K	J	0W25	10 1148	R349	R	CF	H	10K	J	0W25
10 1151	R282	R	CF	H	18K	J	0W25	10 1148	R350	R	CF	H	10K	J	0W25
10 1151	R283	R	CF	H	18K	J	0W25	10 1148	R351	R	CF	H	10K	J	0W25
10 1151	R284	R	CF	H	18K	J	0W25	10 1148	R352	R	CF	H	10K	J	0W25
10 1151	R285	R	CF	H	18K	J	0W25	10 1148	R353	R	CF	H	10K	J	0W25
10 1151	R286	R	CF	H	18K	J	0W25	10 1148	R354	R	CF	H	10K	J	0W25
10 1151	R287	R	CF	H	18K	J	0W25	10 1148	R355	R	CF	H	10K	J	0W25
10 1151	R288	R	CF	H	18K	J	0W25	10 1124	R356	R	CF	H	100E	J	0W25
10 1151	R289	R	CF	H	18K	J	0W25	10 1124	R357	R	CF	H	100E	J	0W25
10 1151	R290	R	CF	H	18K	J	0W25	10 1148	R358	R	CF	H	10K	J	0W25
10 1151	R291	R	CF	H	18K	J	0W25	10 1140	R362	R	CF	H	2K2	J	0W25
10 1148	R292	R	CF	H	10K	J	0W25	10 1136	R363	R	CF	H	1K	J	0W25
10 1148	R293	R	CF	H	10K	J	0W25	10 1230	R364	R	CF	H	330E	J	0W5
10 1148	R294	R	CF	H	10K	J	0W25	10 1152	R365	R	CF	H	22K	J	0W25
10 1148	R295	R	CF	H	10K	J	0W25	10 1148	R366	R	CF	H	10K	J	0W25
10 1148	R296	R	CF	H	10K	J	0W25	10 1230	R367	R	CF	H	330E	J	0W5
10 1148	R297	R	CF	H	10K	J	0W25	10 1160	R368	R	CF	H	100K	J	0W25
10 1148	R298	R	CF	H	10K	J	0W25	10 1183	R370	R	CF	H	8M2	J	0W25
10 1148	R299	R	CF	H	10K	J	0W25	10 1183	R371	R	CF	H	8M2	J	0W25
10 1148	R300	R	CF	H	10K	J	0W25	10 1183	R372	R	CF	H	8M2	J	0W25
10 1148	R301	R	CF	H	10K	J	0W25	10 1183	R373	R	CF	H	8M2	J	0W25
10 1148	R302	R	CF	H	10K	J	0W25	10 1183	R374	R	CF	H	8M2	J	0W25
10 1148	R303	R	CF	H	10K	J	0W25	10 1183	R375	R	CF	H	8M2	J	0W25
10 1148	R304	R	CF	H	10K	J	0W25	10 1183	R376	R	CF	H	8M2	J	0W25
10 1148	R305	R	CF	H	10K	J	0W25	10 1183	R377	R	CF	H	8M2	J	0W25

10 1183	R378	R CF H 8M2 J 0W25	10 3620	R536	R WW H 4E7 K 4W
10 1183	R379	R CF H 8M2 J 0W25	10 3620	R537	R WW H 4E7 K 4W
10 1183	R380	R CF H 8M2 J 0W25	10 3620	R538	R WW H 4E7 K 4W
10 1183	R381	R CF H 8M2 J 0W25	10 3620	R539	R WW H 4E7 K 4W
10 1183	R382	R CF H 8M2 J 0W25	10 1148	R560	R CF H 10K J 0W25
10 1183	R383	R CF H 8M2 J 0W25	10 1148	R561	R CF H 10K J 0W25
10 1183	R384	R CF H 8M2 J 0W25	10 1169	R562	R CF H560K J 0W25
10 1183	R385	R CF H 8M2 J 0W25	10 1152	R563	R CF H 22K J 0W25
10 1135	R386	R CF H820E J 0W25	10 1124	R564	R CF H100E J 0W25
10 1135	R387	R CF H820E J 0W25	10 1152	R565	R CF H 22K J 0W25
10 1135	R388	R CF H820E J 0W25	10 1161	R566	R CF H120K J 0W25
10 1135	R389	R CF H820E J 0W25	10 1135	R603	R CF H820E J 0W25
10 1152	R390	R CF H 22K J 0W25	10 1149	R607	R CF H 12K J 0W25
10 1152	R391	R CF H 22K J 0W25	10 1140	R608	R CF H 2K2 J 0W25
10 1135	R400	R CF H820E J 0W25	10 1144	R608	R CF H 4K7 J 0W25
10 1142	R401	R CF H 3K3 J 0W25	10 1142	R671	R CF H 3K3 J 0W25
10 1171	R402	R CF H820K J 0W25	10 1136	R673	R CF H 1K J 0W25
10 1144	R405	R CF H 4K7 J 0W25	10 1138	R675	R CF H 1K5 J 0W25
10 1136	R406	R CF H 1K J 0W25	10 1152	R677	R CF H 22K J 0W25
10 1144	R407	R CF H 4K7 J 0W25	10 1136	R679	R CF H 1K J 0W25
10 1150	R409	R CF H 15K J 0W25	10 1121	R681	R CF H 56E J 0W25
10 1143	R410	R CF H 3K9 J 0W25	10 1243	R683	R CF H 3K9 J 0W5
10 1150	R411	R CF H 15K J 0W25	10 1146	R685	R CF H 6K8 J 0W25
10 1143	R412	R CF H 3K9 J 0W25	10 3226	R686	R MO H150E J 1W5
10 1150	R413	R CF H 15K J 0W25	10 1229	R687	R CF H270E J 0W5
10 1144	R414	R CF H 4K7 J 0W25	10 3620	R689	R WW H 4E7 K 4W
10 1150	R415	R CF H 15K J 0W25	10 1142	R700	R CF H 3K3 J 0W25
10 1145	R416	R CF H 5K6 J 0W25	10 1142	R701	R CF H 3K3 J 0W25
10 1141	R417	R CF H 2K7 J 0W25	10 1139	R702	R CF H 1K8 J 0W25
10 1141	R418	R CF H 2K7 J 0W25	10 11908	R703	R CFFH 1E J 0W35
10 1139	R419	R CF H 1K8 J 0W25	10 1142	R703	R CF H 3K3 J 0W25
10 1139	R420	R CF H 1K8 J 0W25	10 1142	R704	R CF H 3K3 J 0W25
10 1142	R500	R CF H 3K3 J 0W25	10 1148	R704	R CF H 10K J 0W25
10 1142	R501	R CF H 3K3 J 0W25	10 1142	R705	R CF H 3K3 J 0W25
10 1142	R502	R CF H 3K3 J 0W25	10 1160	R705	R CF H100K J 0W25
10 1142	R503	R CF H 3K3 J 0W25	10 1152	R706	R CF H 22K J 0W25
10 1136	R504	R CF H 1K J 0W25	10 1149	R707	R CF H 12K J 0W25
10 1136	R505	R CF H 1K J 0W25	30 61582	R708	CH AX NS 1.5 MH
10 1136	R506	R CF H 1K J 0W25	10 1124	R708	R CF H100E J 0W25
10 1136	R507	R CF H 1K J 0W25	10 1142	R710	R CF H 3K3 J 0W25
10 1138	R508	R CF H 1K5 J 0W25	10 1142	R711	R CF H 3K3 J 0W25
10 1138	R509	R CF H 1K5 J 0W25			
10 1138	R510	R CF H 1K5 J 0W25	10 2708	SR.1	R MF H 4E7 G 0W5
10 1138	R511	R CF H 1K5 J 0W25	10 12997	SR.2	R CFFH E1 K 0W7
10 1152	R512	R CF H 22K J 0W25	10 12997	SR.3	R CFFH E1 K 0W7
10 1152	R513	R CF H 22K J 0W25	10 11917	SR.6	R CFFH E22K 0W4
10 1152	R514	R CF H 22K J 0W25	10 11907	SR.7	R CFFH E1 J 0W4
10 1152	R515	R CF H 22K J 0W25	10 11917	SR.8	R CFFH E22K 0W4
10 1136	R516	R CF H 1K J 0W25	10 11907	SR.9	R CFFH E1 J 0W4
10 1136	R517	R CF H 1K J 0W25			
10 1136	R518	R CF H 1K J 0W25	34 8108	W.17	W_U JUMP 0.6 22.5
10 1136	R519	R CF H 1K J 0W25	34 8108	W.18	W_U JUMP 0.6 22.5
10 1121	R520	R CF H 56E J 0W25	34 8103	W.19	W_U JUMP 0.6 10
10 1121	R521	R CF H 56E J 0W25			
10 1121	R522	R CF H 56E J 0W25	13 1716	Z..1	D ZEN 5V1 0W5 C DO35
10 1121	R523	R CF H 56E J 0W25	13 1716	Z..2	D ZEN 5V1 0W5 C DO35
10 1243	R524	R CF H 3K9 J 0W5	13 1744	Z700	D ZEN 5V6 0W5 C DO35
10 1243	R525	R CF H 3K9 J 0W5			
10 1243	R526	R CF H 3K9 J 0W5			
10 1243	R527	R CF H 3K9 J 0W5			
10 1146	R528	R CF H 6K8 J 0W25			
10 1146	R529	R CF H 6K8 J 0W25			
10 1146	R530	R CF H 6K8 J 0W25			
10 1146	R531	R CF H 6K8 J 0W25			
10 3226	R532	R MO H150E J 1W5			
10 3226	R533	R MO H150E J 1W5			
10 1229	R534	R CF H270E J 0W5			
10 1229	R535	R CF H270E J 0W5			

Parts listing 76 2172S

ITEM NO.	SIT.	DESCRIPTION
11 27741	C800	C CE MI 100N S 63E1
11 27741	C801	C CE MI 100N S 63E1
11 4079	C802	C POMERA 100N M 63E2 32535
11 3841	C803	C PETPFP 220N M 63E2 32509
11 2240	C804	C NPO MI 68P J 63E2
11 1466	C805	C EL RA 100M Z 16E2 85
11 4079	C806	C POMERA 100N M 63E2 32535
11 1466	C807	C EL RA 100M Z 16E2 85
11 1466	C808	C EL RA 100M Z 16E2 85
11 11565	C809	C EL AX 10M Z 25E7 85
11 1515	C810	C EL RA 150M M 16E2 85
11 27741	C811	C CE MI 100N S 63E1
11 27741	C812	C CE MI 100N S 63E1
11 27741	C813	C CE MI 100N S 63E1
11 4079	C814	C POMERA 100N M 63E2 32535
11 27741	C815	C CE MI 100N S 63E1
11 1147	C816	C EL AX 100M T 16E9 85
11 15915	C817	C EL5 RA 4M7M 35E2 85
11 27741	C819	C CE MI 100N S 63E1
11 27741	C820	C CE MI 100N S 63E1
11 2230	C821	C NPO MI 10P G 63E2
11 27741	C822	C CE MI 100N S 63E1
11 2735	C823	C CE MI 470P K100E2
11 2240	C824	C NPO MI 68P J 63E2
11 4079	C825	C POMERA 100N M 63E2 32535
11 15915	C826	C EL5 RA 4M7M 35E2 85
11 4079	C827	C POMERA 100N M 63E2 32535
11 5932	C828	C PP RA 4N7J 63E2
11 4079	C829	C POMERA 100N M 63E2 32535
11 15915	C830	C EL5 RA 4M7M 35E2 85
11 2240	C831	C NPO MI 68P J 63E2
11 27741	C832	C CE MI 100N S 63E1
11 27741	C833	C CE MI 100N S 63E1
11 1466	C835	C EL RA 100M Z 16E2 85
11 2763	C901	C CE MI 10N U 63E2
11 1466	C902	C EL RA 100M Z 16E2 85
11 1546	C903	C EL RA 1M M 50E2 85
11 1515	C904	C EL RA 150M M 16E2 85
11 1466	C905	C EL RA 100M Z 16E2 85
11 2743	C906	C CE MI 2N2K 63E2
11 2238	C910	C NPO MI 47P G 63E2
11 2367	C911	C N750MI 270P J 63E2
11 2740	C920	C CE MI 1N2K 63E2
11 2740	C921	C CE MI 1N2K 63E2
11 2743	C922	C CE MI 2N2K 63E2
11 2743	C923	C CE MI 2N2K 63E2
13 1621	D800	D S 1N4148 075150 DO35
13 1621	D801	D S 1N4148 075150 DO35
13 1621	D802	D S 1N4148 075150 DO35
13 1621	D803	D S 1N4148 075150 DO35
13 1621	D804	D S 1N4148 075150 DO35
13 16361	D805	D Y BAT85 030200 DO35
13 16361	D806	D Y BAT85 030200 DO35
13 16361	D905	D Y BAT85 030200 DO35
13 1621	D906	D S 1N4148 075150 DO35
13 16361	D910	D Y BAT85 030200 DO35
13 16361	D911	D Y BAT85 030200 DO35
13 4125	I800	U 34084 DIP14 POPAMP
13 27655	I801	U 1496 MC DIP14 PBAL_M
13 4113	I802	U 084 TL DIP14 POPAMP
13 2833	I803	U 76013 SC DIP28 PD_POT
13 7391	I804	U 4053B DIP16 PM/DEM
13 2833	I805	U 76013 SC DIP28 PD_POT

ITEM NO.	SIT.	DESCRIPTION
13 27655	I806	U 1496 MC DIP14 PBAL_M
13 7391	I807	U 4053B DIP16 PM/DEM
13 4124	I808	U 082 TL DIP8 POPAMP
13 7552	I810	U 74HCT123 DIP16 PMULTV
13 73325	I811	U 4098B DIP16 PMULTI
13 4032	I812	U 78L05 TO92 PSTAB
13 4124	I813	U 082 TL DIP8 POPAMP
13 4113	I900	U 084 TL DIP14 POPAMP
13 7397	I901	U 4013B DIP14 PFL_FL
31 3955	J800	J CT MBS P15 M2SN
31 3947	J801	J CT MBS P 7 M2SN
31 5353	J802	J TAB1 MBS H 2.8S0.5
10 6725	P800	R TCE H500E K 0W5 S10TS3386P
10 6732	P801	R TCE H 50K K 0W5 S10TS3386P
10 6732	P802	R TCE H 50K K 0W5 S10TS3386P
10 6733	P900	R TCE H100K K 0W5 S10TS3386P
78 0231	PC..	PCS PJ49 CNV NS SEOS
13 14182	Q800	Q BC559C P SS TO92 030A1
13 1411	Q801	Q BC549C N SS TO92 030A1
13 14185	Q802	Q BC559C P SS TO92 030A1
13 1411	Q803	Q BC549C N SS TO92 030A1
13 1411	Q804	Q BC549C N SS TO92 030A1
13 2916	Q900	Q BS250 FN SS TO92 045A2
10 1140	R800	R CF H 2K2 J 0W25
10 1140	R801	R CF H 2K2 J 0W25
10 1140	R803	R CF H 2K2 J 0W25
10 1139	R804	R CF H 1K8 J 0W25
10 1140	R805	R CF H 2K2 J 0W25
10 1148	R806	R CF H 10K J 0W25
10 1142	R807	R CF H 3K3 J 0W25
10 1148	R808	R CF H 10K J 0W25
10 1140	R809	R CF H 2K2 J 0W25
10 1132	R810	R CF H470E J 0W25
10 1132	R811	R CF H470E J 0W25
10 1160	R812	R CF H100K J 0W25
10 1140	R813	R CF H 2K2 J 0W25
10 1136	R814	R CF H 1K J 0W25
10 1140	R815	R CF H 2K2 J 0W25
10 1140	R816	R CF H 2K2 J 0W25
10 1144	R817	R CF H 4K7 J 0W25
10 1136	R818	R CF H 1K J 0W25
10 1140	R819	R CF H 2K2 J 0W25
10 1140	R820	R CF H 2K2 J 0W25
10 1140	R821	R CF H 2K2 J 0W25
10 1141	R822	R CF H 2K7 J 0W25
10 1140	R823	R CF H 2K2 J 0W25
10 1140	R824	R CF H 2K2 J 0W25
10 1132	R825	R CF H470E J 0W25
10 1132	R826	R CF H470E J 0W25
10 1148	R827	R CF H 10K J 0W25
10 1148	R828	R CF H 10K J 0W25
10 1148	R829	R CF H 10K J 0W25
10 1148	R830	R CF H 10K J 0W25
10 1136	R831	R CF H 1K J 0W25
10 1151	R832	R CF H 18K J 0W25
10 1134	R833	R CF H680E J 0W25
10 1151	R834	R CF H 18K J 0W25
10 1148	R835	R CF H 10K J 0W25
10 1140	R836	R CF H 2K2 J 0W25
10 1129	R837	R CF H270E J 0W25

10 1152	R838	R CF H 22K J 0W25	10 1136	R880	R CF H 1K J 0W25
10 1152	R839	R CF H 22K J 0W25	10 1148	R881	R CF H 10K J 0W25
10 1131	R841	R CF H390E J 0W25	10 1148	R882	R CF H 10K J 0W25
10 1160	R842	R CF H100K J 0W25	10 1124	R883	R CF H100E J 0W25
10 1174	R843	R CF H 1M5 J 0W25	10 1144	R884	R CF H 4K7 J 0W25
10 1152	R846	R CF H 22K J 0W25	10 1124	R885	R CF H100E J 0W25
10 1152	R847	R CF H 22K J 0W25	10 1136	R900	R CF H 1K J 0W25
10 1152	R848	R CF H 22K J 0W25	10 1136	R901	R CF H 1K J 0W25
10 1152	R849	R CF H 22K J 0W25	10 1148	R902	R CF H 10K J 0W25
10 1152	R862	R CF H 22K J 0W25	10 1150	R903	R CF H 15K J 0W25
10 1152	R863	R CF H 22K J 0W25	10 1154	R904	R CF H 33K J 0W25
10 1152	R864	R CF H 22K J 0W25	10 1154	R905	R CF H 33K J 0W25
10 1152	R865	R CF H 22K J 0W25	10 1154	R906	R CF H 33K J 0W25
10 1148	R866	R CF H 10K J 0W25	10 1112	R913	R CF H 10E J 0W25
10 1151	R867	R CF H 18K J 0W25	10 1164	R914	R CF H220K J 0W25
10 1139	R870	R CF H 1K8 J 0W25	10 1540	R920	R MF H 2K2 F 0W4 E2
10 1129	R870	R CF H270E J 0W25	10 1540	R921	R MF H 2K2 F 0W4 E2
10 1160	R871	R CF H100K J 0W25	10 1540	R922	R MF H 2K2 F 0W4 E2
10 1148	R872	R CF H 10K J 0W25	10 1540	R923	R MF H 2K2 F 0W4 E2
10 1136	R873	R CF H 1K J 0W25			
10 1136	R874	R CF H 1K J 0W25			
10 1144	R875	R CF H 4K7 J 0W25			
10 1148	R876	R CF H 10K J 0W25			
10 1148	R877	R CF H 10K J 0W25			
10 1132	R878	R CF H470E J 0W25			
10 1132	R879	R CF H470E J 0W25			

Parts listing 76 1872S

ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
31 3251	J..1	J PIN MBT D 0.8	10 6733	P..3	R TCE H100K K 0W5 S10TS3386P
31 3251	J..2	J PIN MBT D 0.8	10 6733	P..4	R TCE H100K K 0W5 S10TS3386P
31 3251	J..3	J PIN MBT D 0.8			
31 3251	J..4	J PIN MBT D 0.8	78 0205	PC..	PCS PJ49RG 800 CNV C_OVER
31 3251	J..5	J PIN MBT D 0.8			
31 3251	J..6	J PIN MBT D 0.8	10 1174	R..1	R CF H 1M5 J 0W25
			10 1174	R..2	R CF H 1M5 J 0W25
10 6733	P..1	R TCE H100K K 0W5 S10TS3386P	10 1174	R..3	R CF H 1M5 J 0W25
10 6733	P..2	R TCE H100K K 0W5 S10TS3386P	10 1174	R..4	R CF H 1M5 J 0W25

Convergence Module

76 2172

Sub module 76 1872S

Sub module 76 2172S

Spare parts 76 2172 CPL

ART NO.	DESCRIPTION	QUANTITY	ART NO.	DESCRIPTION	QUANTITY
10 11907	R CFFH E1 J 0W4	2	31 30421	J PHN FBS D 2.5MON P	1
10 11908	R CFFH 1E J 0W35	1	31 3248	J U0.3 FBT P14 E1SN SPG	1
10 11917	R CFFH E22K 0W4	2	31 32862	J MD1 MBT P 2 E1SN	8
10 12997	R CFFH E1 K 0W7	2	31 33921	J MD JMP P 1 E1SN	8
10 28241	R MF H 91E G 0W6	1	31 35000	J DE S8 MBS P 9 FU M BL	1
10 3226	R MO H150E J 1W5	3	31 35010	J DE S8 FBS P 9 FU MFT	1
10 3620	R WW H 4E7 K 4W	5	31 35251	J EUR2C MBS P64 E1 C2S1.6	2
10 6725	R TCE H500E K 0W5 S10TS3386P	2	31 53151	J RVT MBT D 2.3L13	1
			31 5331	SLDRLUG SCR 1TAG D3.2 L12	4
11 1571	C EL RA 2M2M350E2 85	1			
11 2681	C N750MI 15P G500E2	1	36 19145	SCR D965 M 3 X 10 PS B	4
			36 1924	SCR D965 M 4 X 10 PS Z	6
13 14071	Q BC547B N SS TO92 045A1	2	36 20216	SCR D84 M 3 X 6 SI	8
13 1411	Q BC549C N SS TO92 030A1	1	36 20226	SCR D84 M 3 X 8 SI	20
13 14131	Q BC557B P SS TO92 045A1	8	36 2121	SCR D7985 M 3 X 6 PS Z	10
13 14182	Q BC559C P SS TO92 030A1	1	36 2122	SCR D7985 M 3 X 8 PS Z	7
13 1428	Q BC548C N SS TO92 030A1	2	36 26696	SCR D921 M 3 X 8 SI	1
13 14295	Q BC549B N SS TO92 030A1	12	36 6102	NUT D934 M 3 S Z	9
13 1491	Q BSX20 .2369 N SS TO18 015A2	3	36 61026	NUT D934 M 3 I	5
13 1621	D S 1N4148 075150 DO35	20	36 6150	NUT D555 M 3 P	1
13 1628	D S BAW62 075200 DO35	1	36 7502	WSHR D6798 A 3.2 S Z	12
13 16361	D Y BAT85 030200 DO35	6	36 75256	WSHR D 3.1 X 6.2 T0.6 J	20
13 1637	D R BA158 600400 DO7	14	36 7600	NUT BLOC M 3	3
13 1681	D O BPW41 032	1	36 7699	RVT CHB D2.38L6.35 P A	1
13 1716	D ZEN 5V1 0W5 C DO35	2			
13 1733	D STB 2V 0W33 C SOD27	4	71 23024	WSHR D 3.25X 7 T1 L	2
13 1744	D ZEN 5V6 0W5 C DO35	1			
13 1954	D R BYW29 20008A TO220	2	76 1872S	UN CNV PJ49R *800 C_OVER	1
13 2515	Q BF470 .870 P P TO126 25030	1	76 2172S	UN CNV PJ49 G801 NS_CORR	1
13 2552	Q BF423 P SS TO92 25050	5			
13 2579	Q BD651 DN P TO220 12008	5	77 5164	COIL CH HOR DEF	2
13 27655	U 1496 MC DIP14 PBAL_M	10			
13 2824	U 2800 TBA DIP14 PIRREC	1	80 0658	SPR L13.5 H 5 M 3 B	4
13 2833	U 76013 SC DIP28 PD_POT	24	80 2667	FRM PJ49 RX CAN IR	1
13 2909	Q BD652 P P TO220 12008	5	80 2960	FRM PJ49 CNV FIX FR	2
13 2910	Q BS170 FN SS TO92 060A5	2	80 32471	HTSNK PJ49 CNV \$800 PARTA 05	1
13 2941	Q IRF632 FN P TO220 20008	2	80 3340	SPR L5	
13 2942	Q IRF9630 FP P TO220 20005	2	80 3341	FRM PJ49 CNV R *800 01	1
13 2944	Q BCY87 2N SS TO71 040A2	5	80 3685	HTSNK PJ49R CNV INTERMED 03	1
13 30291	Q ACC ISO MICA TO220	20	80 3857	SPR L30 D 6 M 3 P	1
13 30292	Q ACC ISO BSHG TO220	20	80 3867	SPR L13 D 6 M 3 P	1
13 3039	SPR L 8 D 4 D 1.2 C CER	6	80 4615	HTSNK PJ49 CNV G801 04	1
13 4002	U 7812 TO220 PSTAB	1	80 4618	FRM PJ49 CNV G801 BRKT 02	1
13 4016	U 7912 TO220 PSTAB	1	80 4619	FRM PJ49 CNV G801 FIX PLT	1
13 4026	U 317T TO220 PSTAB	1	80 4620	FRM PJ49 CNV FR PLT G801 01	1
13 4027	U 337T TO220 PSTAB	1			
13 4032	U 78L05 TO92 PSTAB	1			
13 4113	U 084 TL DIP14 POPAMP	2			
13 4114	U 393 LM DIP8 PV_COM	1			
13 4124	U 082 TL DIP8 POPAMP	2			
13 4125	U 34084 DIP14 POPAMP	12			
13 7206	U 1488 DIP14 PL_DVR	1			
13 7207	U 1489 DIP14 PL_REC	1			
13 7391	U 4053B DIP16 PM/DEM	4			
30 61582	CH AX NS 1.5 MH	3			

Spare parts 76 2172S

ART NO.	DESCRIPTION	QUANTITY	ART NO.	DESCRIPTION	QUANTITY
10 6725	R TCE H500E K 0W5 S10TS3386P	1	13 4124	U 082 TL DIP8 POPAMP	2
10 6732	R TCE H 50K K 0W5 S10TS3386P	2	13 4125	U 34084 DIP14 POPAMP	1
10 6733	R TCE H100K K 0W5 S10TS3386P	1	13 73325	U 4098B DIP16 PMULTI	1
13 1411	Q BC549C N SS TO92 030A1	3	13 7391	U 4053B DIP16 PM/DEM	2
13 14182	Q BC559C P SS TO92 030A1	1	13 7397	U 4013B DIP14 PFL_FL	1
13 14185	Q BC559C P SS TO92 030A1	1	13 7552	U 74HCT123 DIP16 PMULTV	1
13 1621	D S 1N4148 075150 DO35	6	31 3947	J CT MBS P 7 M2SN	1
13 16361	D Y BAT85 030200 DO35	5	31 3955	J CT MBS P15 M2SN	1
13 27655	U 1496 MC DIP14 PBAL_M	2	31 5353	J TAB1 MBS H 2.8S0.5	1
13 2833	U 76013 SC DIP28 PD_POT	2	78 0231	PCS PJ49 CNV NS SEOS	1
13 2916	Q BS250 FN SS TO92 045A2	1			
13 4032	U 78L05 TO92 PSTAB	1			
13 4113	U 084 TL DIP14 POPAMP	2			

Spare parts 76 1872S

ART NO.	DESCRIPTION	QUANTITY	ART NO.	DESCRIPTION	QUANTITY
10 6733	R TCE H100K K 0W5 S10TS3386P	4	31 3251	J PIN MBT D 0.8	6

