



Service Manual

3922 496 31191

Version: 10.11.05

LDK 5861

Triax HD Adaptor



LDK 5861

Triax HD adaptor

3922 496 31191
Version: 10.11.05

Declaration of Conformity

We, Grass Valley Nederland B.V., Kapittelweg 10, 4827 HG Breda, The Netherlands declare under our sole responsibility that this product is in compliance with the following standards:

- EN60950-1 : Safety
- EN55103-1 : EMC (Emission)
- EN55103-2 : EMC (Immunity)

following the provisions of:

- a. low voltage directive 2006/95/EC
- b. EMC directive 2004/108/EC.

FCC Class A Statement

This product generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause interference to radio communications.

It has been tested and found to comply with the limits for a class A computing device pursuant to Subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this product in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

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Identification and Status

To indicate the status of a drawing, a box with the numbers 0 to 9 is shown in the bottom-right of the drawing. The number that is crossed-out is the status number of the drawing. For example, in the illustration below, the status is 1.

0	1	2	3	4
5	6	7	8	9

A sticker is used on the units themselves to identify them and to indicate their status. For example, in the illustration below, the top line is the 12-digit number that identifies the unit type.

3922 406 88991
00121107 00 01

The first four digits of the number on the second line represent a date code (year, week), the next four digits represent the serial number for that week.

The number in the grey area indicates the status of the unit. The last two digits represent the number that will be given to the next status. However, if these two digits are contained in a box, then this is the current status. For example, in the illustration above, the current status of the unit is 01.

Line 1	392240700000
Line 2	123456AA0101
Line 3	VR/0123456789

Line 1

This is the code number of the printed circuit board assy. (PCB)

Line 2

This is the serial number of the PCB. The first 6 digits and the 2 letters are for internal use. The last four digits represent the date of the manufacturing: wwy.

Example:

123456AA1407 means the PCB is manufactured in week 14 of the year 2007.

Line 3

This is the status of the PCB.

The digit after the first slash is the status. If there is no number before the slash, it means that the status is less than 10, a 1 before the slash means the status is between 10 and 19, a 2 before the slash means between 20 and 29 etc.

Example:

- VR4567891012 means status 4

- VR3/78901234 means status 37.

Example of LDK number:

LDK 4501/01 means 8926 **450 10101**

LDK 4500/00 means 8926 **450 00001**

Numbers of printed circuit board assy
- 3922 406 xxxx or 3922 407 xxxx

Number (screened in PCB layout) of printed circuit board assy: 3922 411xxxx. (not a sparepart)

Safety Summary

This information is intended as a guide for trained and qualified personnel who are aware of the dangers involved in handling potentially hazardous electrical/electronic equipment. It is not intended to contain a complete list of all safety precautions which should be observed by personnel in using this or other electronic equipment.

The installation, maintenance and service of this equipment involves risks both to personnel and equipment and must be performed only by qualified personnel exercising due care.

Personnel engaged in the installation, operation, maintenance or servicing of this equipment are urged to become familiar with First Aid theory and practices.

During installation and operation of this equipment, local building safety and fire protection standards must be observed.

Before connecting the equipment to the power supply of the installation, the proper functioning of the protective earth lead of the installation needs to be verified.

Whenever it is likely that safe operation is impaired, the apparatus must be made inoperative and secured against any unintended operation. The appropriate servicing authority must then be informed. For example, safety is likely to be impaired if the apparatus fails to perform the intended function or shows visible damage.

CAUTION

Double pole/neutral fusing

To prevent risk of overheating, ventilate the product correctly.

Connect the product only to a power source with the specified voltage rating.

Only connect a Triax cable from the LDK 6 camera family to an LDK 6 CPU. Never connect it to any other base station.

Never connect the Triax cable from a camera to a CPU of a different family; never connect the LDK family to the TTV family.

Do not allow system ground currents to exceed 1.5A in the outer shield of the triax cable or 0.2A in other cable shields.

It is strictly prohibited to short circuit the inner and outer shields of a triax cable used to connect a camera to a base station.

Cautions and Warnings

When performing service, be sure to read and comply with the warning and caution notices appearing in the manuals. Warnings indicate danger that requires correct procedures or practices to prevent death or injury to personnel. Cautions indicate procedures or practices that should be followed to prevent damage or destruction to equipment or property.

WARNING

THE CURRENT AND VOLTAGES PRESENT IN THIS EQUIPMENT ARE DANGEROUS. ALL PERSONNEL MUST AT ALL TIMES FOLLOW THE SAFETY REGULATIONS.

ALWAYS DISCONNECT POWER BEFORE REMOVING COVERS OR PANELS.

ALWAYS DISCHARGE HIGH VOLTAGE POINTS BEFORE SERVICING.

NEVER MAKE INTERNAL ADJUSTMENTS, PERFORM MAINTENANCE OR SERVICE WHEN ALONE OR WHEN FATIGUED.

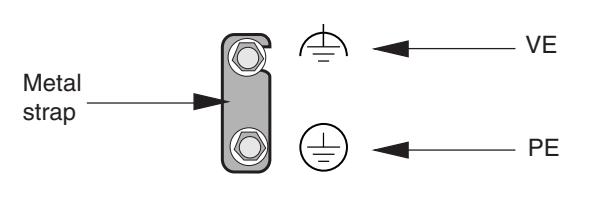
IN CASE OF AN EMERGENCY ENSURE THAT THE POWER IS DISCONNECTED.

ANY INTERRUPTION OF THE PROTECTION CONDUCTOR INSIDE OR OUTSIDE THE APPARATUS, OR DISCONNECTION OF THE PROTECTIVE EARTH TERMINAL, IS LIKELY TO MAKE THE APPARATUS DANGEROUS. INTENTIONAL INTERRUPTION IS PROHIBITED.

FOR SAFETY REASONS THE CPU MUST BE MOUNTED IN A 19-inch RACK WHICH HAS SAFETY COVERS ACCORDING TO IEC65.

WHEN TWO CPUs ARE MOUNTED ABOVE EACH OTHER THE MINIMUM DISTANCE BETWEEN THEM MUST BE 50MM OR THE RACK MUST BE FORCE-AIR COOLED.

USE ONLY FUSES OF THE TYPE AND RATING SPECIFIED.

Symbol	Colour	Explanation	Earthing
	Red	High voltage terminal at which a voltage, with respect to an other terminal, exists or may be adjusted to 1000V or more.	The rear of a CPU has two separate screw terminals for protective earth (PE) and video earth (VE). 
	Yellow/Black	Live part.	
	Yellow/Black	This marking indicates that the operator must refer to an explanation in the Instruction Manual, or that a specific component must be replaced by the component specified in the documentation for safety reasons.	These are normally connected by a metal strap. The protective earth terminal is internally connected to the protective earth conductor of the power cable. If required, the central earth connection wire of the studio can be connected to terminal PE.
	White/Black	Protective earth (ground) terminal.	In normal circumstances the connection between the protective earth and the video earth should not be broken.

Cathode ray tubes

Components marked on the circuit diagram are critical for safety and include those specified to comply with X-ray emission standards for units using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

When servicing units that use cathode ray tubes (CRTs), the cathode ray tubes themselves, the high voltage circuits and related circuits are specifically chosen so that they comply with recognized codes pertaining to X-ray emission.

Consequently, when servicing, replace the cathode ray tubes and other parts with specified parts only. Do not attempt to modify these circuits as any unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

Handle the cathode ray tube only when wearing shatterproof goggles and after discharging the high voltage completely.

WARNING
THE UNIT MUST ALWAYS BE CONNECTED TO PROTECTIVE EARTH.

Mains Lead Wiring for UK Users

The wires in the mains lead are coloured in accordance with the following code:

GREEN AND YELLOW	-	EARTH
BLUE	-	NEUTRAL
BROWN	-	LIVE

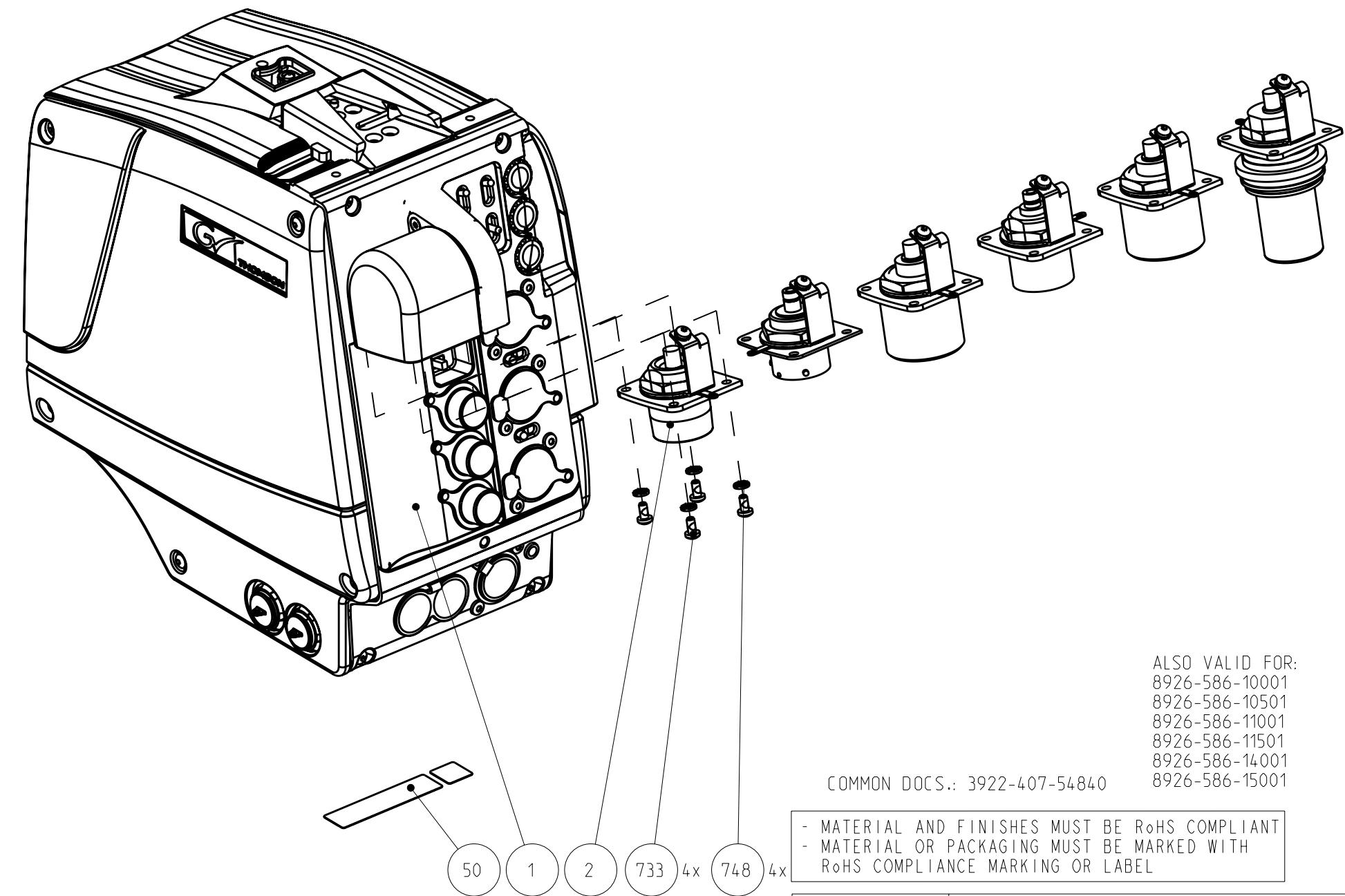
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

- The wire coloured GREEN AND YELLOW must be connected to the terminal on the plug marked with the letter E or by the safety earth symbol or coloured GREEN or GREEN AND YELLOW.
- The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured RED.
- The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLACK.

Ensure that your equipment is connected correctly - if you are in any doubt consult a qualified electrician.

3922 496 31191 Service Manual Camera Head LDK 5861 Series

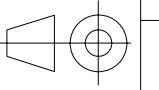
Tab	Part number	Drawing Number	Description
1	8926 586 15001 8926 586 14001 8926 586 11501 8926 586 11001 8926 586 10501 8926 586 10001 3922 407 56521	8926 586 19901 8927 586 19901 8928 586 19901 8929 586 19901 8930 586 19901 8931 586 19901 No	HD TRIAX DYNAC BACK TRILOCK HD TRIAX DYNAC BACK BBC LEMO HD TRIAX DYNAC BACK LEMO 3T HD TRIAX DYNAC BACK LEMO 4E HD TRIAX DYNAC BACK ARD HD TRIAX DYNAC BACK FISHER SET OF ADDITIONAL SUPPLIES
2	3922 407 54581 3922 407 49231	3922 407 54581 3922 407 49231	TRIAx ADAPTER BASIC 5861 ROTARY TRIAX BACKPANEL
3	3922 406 55151	3922 406 55151	TRIAx MOTHERBOARD
4	3922 406 55181	3922 406 55181	INTERCONNECTION BOARD TRIAX
5	3922 406 88571	3922 406 88571	VIDEO MUX HD
6	3922 406 87871	3922 406 87871	AUDIO/INTERCOM TX/RX
7	3922 406 87881	3922 406 87881	AUDIO INTERCOM LF
8	3922 406 55061	3922 406 55061	POWER BOARD
9	3922 406 55031	3922 406 55031	VIDEO REC./CONVERTER TP HD
10	3922 406 54871	3922 406 54871	DAC OUTPUT BOARD
11	3922 406 53061	3922 406 53061	TRIAx BACKPANEL
12	3922 406 53131	3922 406 53131	POWER INTERCONNECTION BOARD
13	3922 407 54561 3922 406 53151	3922 407 49261 3922 406 53151	ADAPTOR BOTTOM ASSY FISHER CONNECTOR BOARD
14	3922 407 55371	3922 407 55371	TOPPLATE TRIAX ASSY
15	3922 407 49291	3922 407 49291	ADAPTOR COVER LEFT ASSY
16	3922 407 52551	3922 407 52551	ADAPTOR COVER RIGHT ASSY



ALSO VALID FOR:
8926-586-10001
8926-586-10501
8926-586-11001
8926-586-11501
8926-586-14001
8926-586-15001

COMMON DOCS.: 3922-407-54840

- MATERIAL AND FINISHES MUST BE RoHS COMPLIANT
- MATERIAL OR PACKAGING MUST BE MARKED WITH RoHS COMPLIANCE MARKING OR LABEL

MATERIAL:	SEE PARTSLIST			SCALE  1:2	
TREATMENT:				
FINISH:				
DRAWN BY:	DATE:	GENERAL ROUGHNESS:	TOLERANCES UNLESS OTHERWISE STATED:		
J. DAM	2008-08-14	Ra 3.2 nm	DIMENSION: ±0,2	ANGLE: ±1°	
TITLE:	TRIAx HD ADAPTER LDK5861				



DOCUMENT NUMBER	FORMAT	SHEET
8926 586 19901	A3	1
RELEASE LEVEL:	110-01	.

8926 586 10001;3 HD TRIAX DYNAC BACK FISCHER

Ref	Description	Part 12nc	Service part
0	COMMON DOCUMENTS LDK5861		
1	GNDLS TRIAX ADAPTER 5861		
2	TRIAx FISCHER ASSY	3922 407 34991	Yes
50	TYPE PLATE GRASS VALLEY/CE		
733T	PAN SCR STL ST M3X6		
748	EARTH WASH STL ST A4 3,2X6		

8926 586 10501;3 HD TRIAX DYNAC BACK ARD

Ref	Description	Part 12nc	Service part
0	COMMON DOCUMENTS LDK5861		
1	GNDLS TRIAX ADAPTER 5861		
2	TRIAx ARD ASSY	3922 407 34981	Yes
50	TYPE PLATE GRASS VALLEY/CE		
733T	PAN SCR STL ST M3X6		
748	EARTH WASH STL ST A4 3,2X6		

8926 586 11001;3 HD TRIAX DYNAC BACK LEMO 4E

Ref	Description	Part 12nc	Service part
0	COMMON DOCUMENTS LDK5861		
1	GNDLS TRIAX ADAPTER 5861		
2	TRIAx 4E ASSY	3922 407 34961	Yes
50	TYPE PLATE GRASS VALLEY/CE		
733T	PAN SCR STL ST M3X6		
748	EARTH WASH STL ST A4 3,2X6		

8926 586 11501;3 HD TRIAX DYNAC BACK LEMO 3T

Ref	Description	Part 12nc	Service part
0	COMMON DOCUMENTS LDK5861		
1	GNDLS TRIAX ADAPTER 5861		
2	TRIAx 3T ASSY	3922 407 35001	Yes
50	TYPE PLATE GRASS VALLEY/CE		
733T	PAN SCR STL ST M3X6		
748	EARTH WASH STL ST A4 3,2X6		

8926 586 14001;3 HD TRIAX DYNAC BACK BBC LEMO

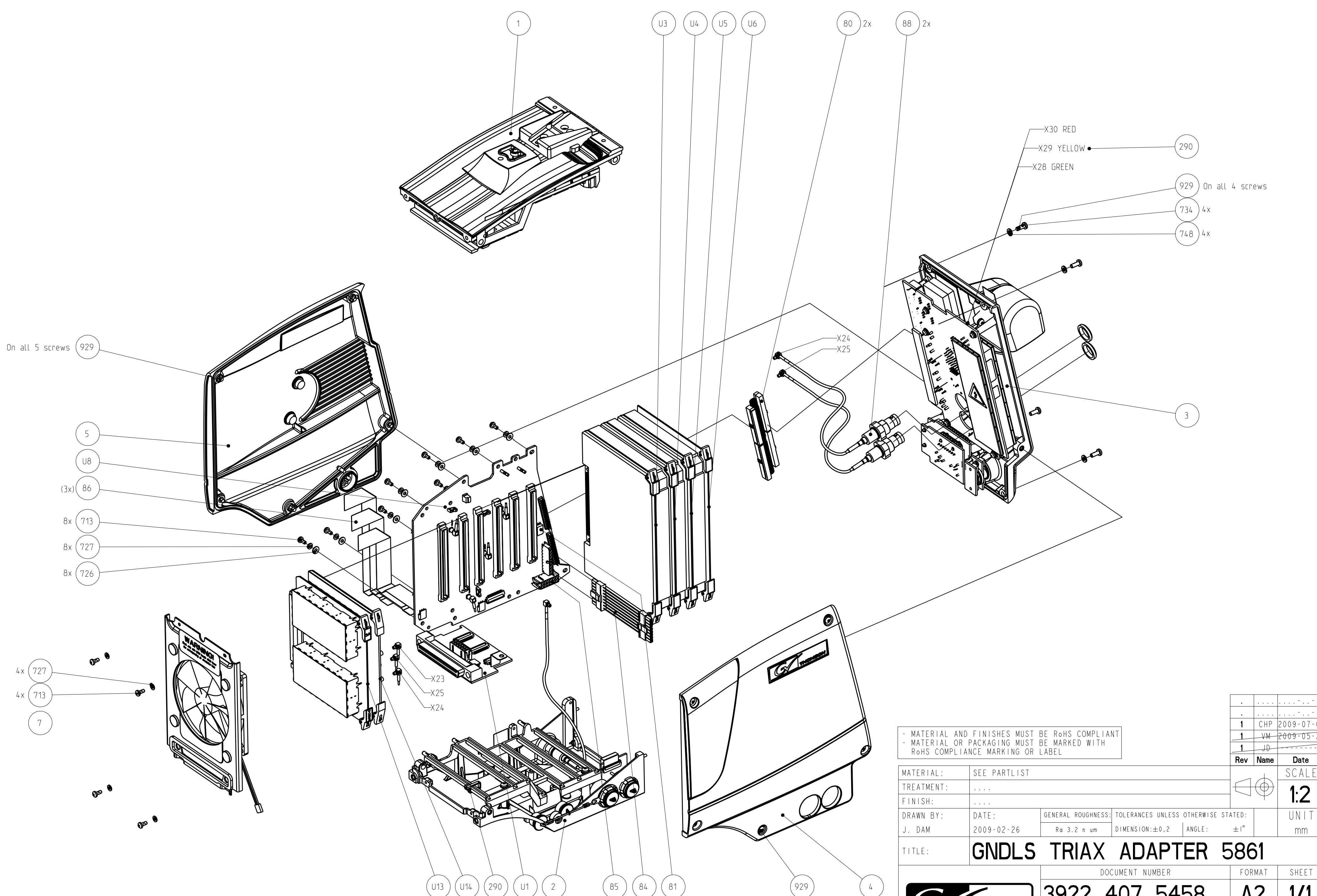
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0	COMMON DOCUMENTS LDK5861		
1	GNDLS TRIAX ADAPTER 5861		
2	TRIAx M4 ASSY	3922 407 34951	Yes
50	TYPE PLATE GRASS VALLEY/CE		
733T	PAN SCR STL ST M3X6		
748	EARTH WASH STL ST A4 3,2X6		

8926 586 15001;3 HD TRIAX DYNAC BACK TRILOCK

Ref	Description	Part 12nc	Service part
0	COMMON DOCUMENTS LDK5861		
1	GNDLS TRIAX ADAPTER 5861		
2	TRIAx 4A ASSY	3922 407 34971	Yes
50	TYPE PLATE GRASS VALLEY/CE		
733T	PAN SCR STL ST M3X6		
748	EARTH WASH STL ST A4 3,2X6		

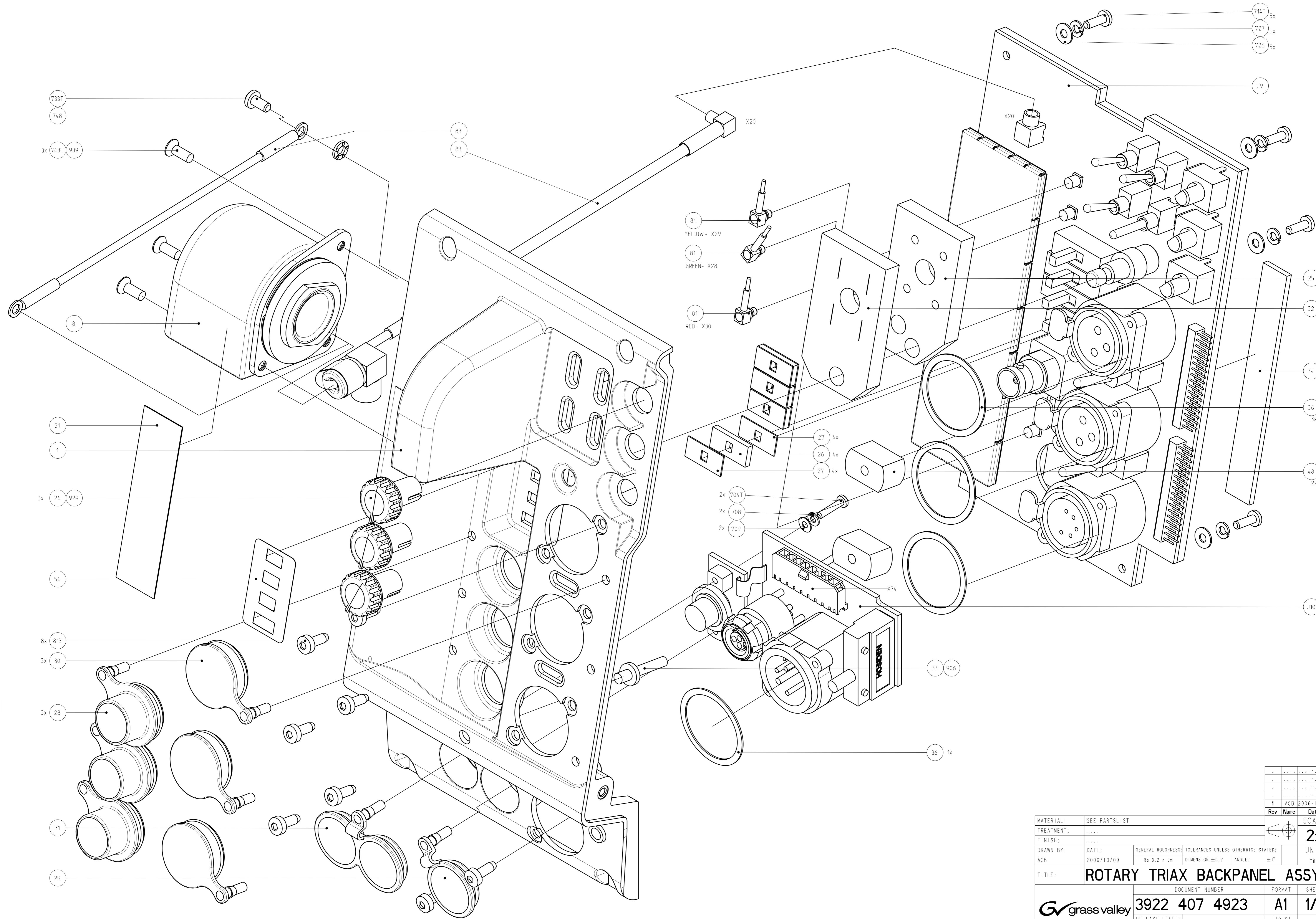
3922 407 56521;1 SET OF ADD. SUPPL. LDK5861

Ref	Description	Part 12nc	Service part
4	BAG PE 250X410X0,03 O		
5	USER'S GUIDE LDK8000 ELITE	3922 496 31221	Yes
6SRV	SERVICE MANUAL LDK5861		



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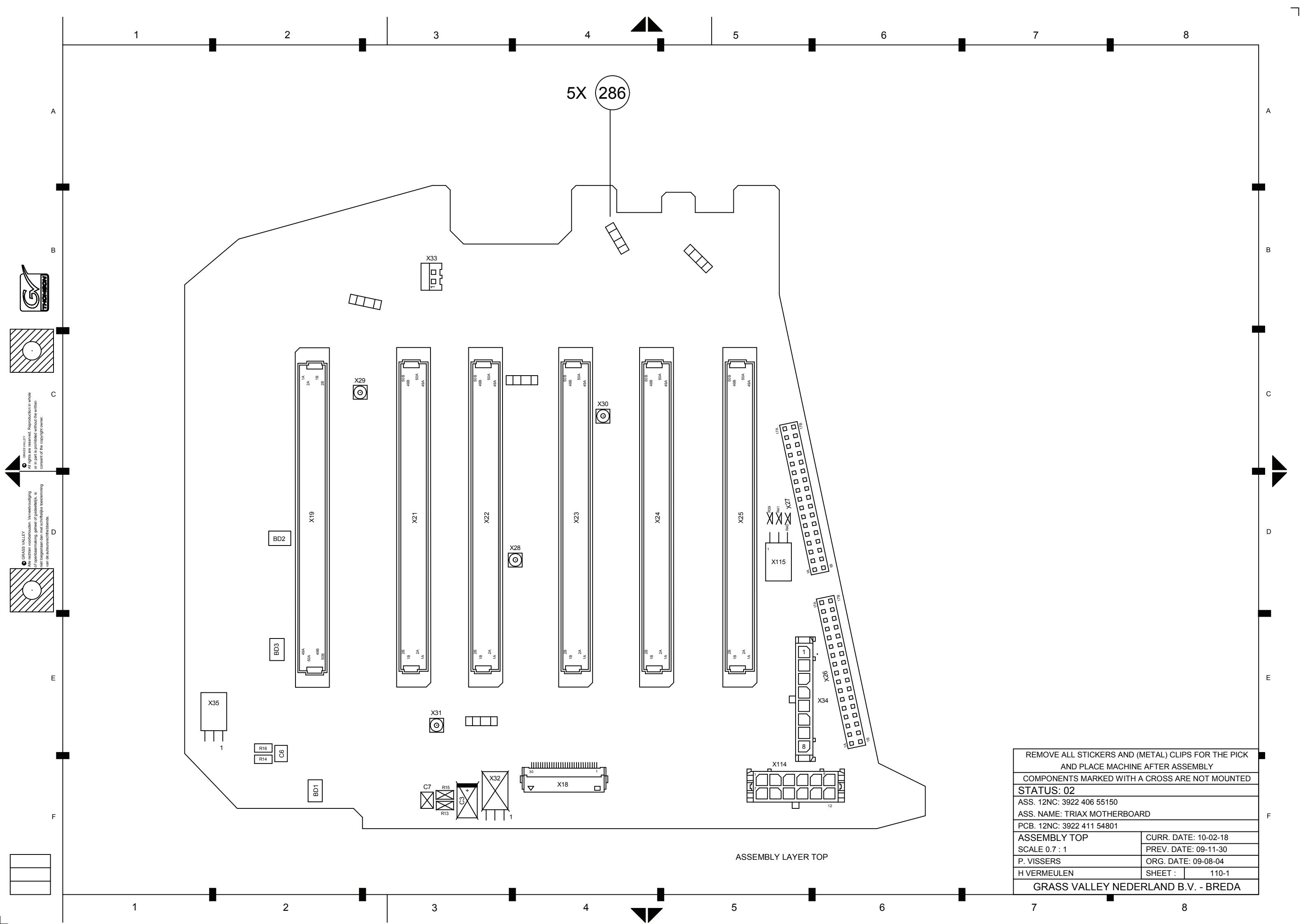
Ref	Description	Part 12nc	Service part
1	TOPPLATE TRIAX ASSY	3922 407 55371	Yes
2	ADAPTOR BOTTOM ASSY	3922 407 54561	Yes
3	ROTARY TRIAX BACKPANEL ASSY	3922 407 49231	Yes
4	ADAPTOR COVER LEFT ASSY	3922 407 49291	Yes
5	FIB ADAPT COVER RIGHT ASSY	3922 407 52551	Yes
7	DOCKPLATE ADAPTOR HOLE ASSY	3922 407 56941	Yes
80	ASSY FLATCABLE 2X17P	3922 407 49962	Yes
81	MICR. CABLE ASSY	3922 407 56591	Yes
84	8P WIRING POWER INTERC.BRD	3922 407 50371	Yes
85	12P WIRING POWER	3922 407 55381	Yes
86	SUMITOMO FLEX 30P L=160MM 30V	3922 205 00123	Yes
88	BNC WIRED	3922 407 49972	Yes
91	SET OF ADD. SUPPL. LDK5861		
290	WIRE TIE 2,3X92 PA		
713	PAN SCR STL ST M2,5x6	2522 201 08017	Yes
726	WASH STL ST 2,7X6,5	2522 600 27137	Yes
727	SPR WASH STL ST 2,6X5,1	2522 613 12063	Yes
734	PAN SCR STL ST M3X8	2522 201 08032	Yes
748	EARTH WASH STL ST A4 3,2X6	2522 608 05001	Yes
929	GREASE FS 1292		
U1	INTERCONNECTION BRD TRIAX	3922 406 55181	Yes
U3	VIDEO MUX HD	3922 406 88571	Yes
U4	AUDIO/INTERCOM TX/RX	3922 406 87871	Yes
U5	AUDIO INTERCOM LF	3922 406 87881	Yes
U6	POWER BOARD	3922 406 55061	Yes
U8	TRIAx MOTHERBOARD	3922 406 55151	Yes
U13	VIDEO REC./CONVERTER TP HD	3922 406 55031	Yes
U14	DAC OUTPUT BOARD	3922 406 54871	Yes



MATERIAL:	SEE PARTSLIST	SCALE	
TREATMENT:	2:1	
FINISH:	UNIT	
DRAWN BY:	DATE:	GENERAL ROUGHNESS:	TOLERANCES UNLESS OTHERWISE STATED:
ACB	2006/10/09	R _o 3.2 m um	DIMENSION: ±0.2 ANGLE: ±1° mm
TITLE:	ROTARY TRIAX BACKPANEL ASSY		
	DOCUMENT NUMBER	FORMAT	SHEET
grass valley	3922 407 4923	A1	1/1
RELEASE LEVEL:	110-01		

3922 407 49231;5 ROTARY TRIAX BACKPANEL ASSY

Ref	Description	Part 12nc	Spare part
1	ROT.TRIAX BACKPANEL PAINTED	3922 407 49221	Yes
8	ROTARY CONNECTOR UNIT	3922 407 32295	No
24	LONG KNOB	3922 400 08412	Yes
25	GASKET 5-FOLD	3922 401 48562	No
26	GASKET FOR SLIDESWITCH	3922 401 48572	Yes
27	SHEET FOR SLIDESWITCH	3922 401 48621	Yes
28	DUSTCOVER BNC	3922 400 09172	Yes
29	DUSTCOVER FISCHER/XLR3-M	3922 400 09231	Yes
30	DUSTCOVER XLR3 FEMALE	3922 400 08661	Yes
31	DOUBLE COVER FISHER PLUG	3922 400 10881	No
32	GASKET 5-FOLD CUT	3922 405 05031	No
33	POWER-ON LENS	3922 400 08621	Yes
34	CELRUBBER ZK/CR FEST 10X2MM	1222 103 98065	No
36	GASKET XLR3	3922 401 49302	No
48	TOGGLE SWITCH SEAL	3922 405 00522	No
51	INSULATING PLATE	3922 405 00291	No
54	LABEL BACK PANEL	3922 405 04401	No
81	COAX CABLE ASSY	3922 407 49951	Yes
83	WIRE SET ROTARY	3922 407 35051	Yes
704T	PAN SCR STL ST M2X10	2522 201 08006	Yes
708	WASH STL ST 2,2X5	2522 600 27151	Yes
709	SPR WASH STL ST 2,1X4.4	2522 613 12001	Yes
714T	PAN SCR STL ST M2,5X8	2522 201 08018	Yes
726	WASH STL ST 2,7X6,5	2522 600 27137	Yes
727	SPR WASH STL ST 2,6X5,1	2522 613 12063	Yes
733T	PAN SCR STL ST M3X6	2522 201 08031	Yes
743T	CSK SCR STL ST M3X8	2522 203 04024	Yes
748	EARTH WASH STL ST A4 3,2X6	2522 608 05001	Yes
813	PAN TAP SCR F ST T8 2,9X8	2522 202 07006	Yes
U9	TRIAx BACKPANEL	3922 406 53061	Yes
U10	POWER INTERCONNECTION BOARD	3922 406 53131	Yes



1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

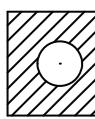
D

E

E

F

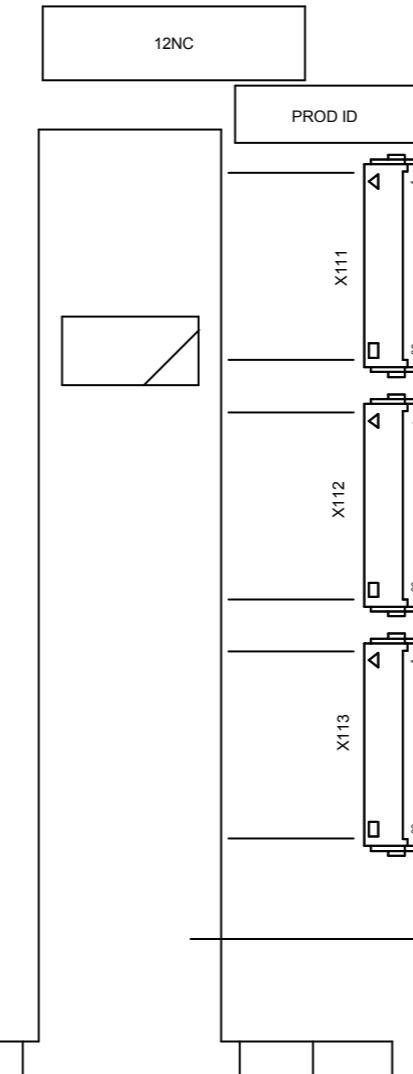
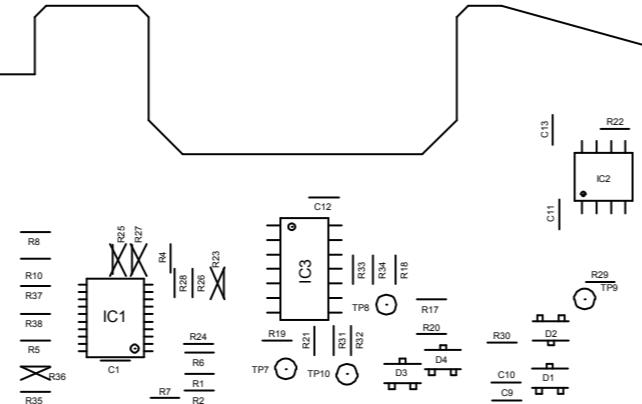
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Niet toegestaan dat met schriftelijke toestemming



REMOVE ALL STICKERS AND (METAL) CLIPS FOR THE PICK
AND PLACE MACHINE AFTER ASSEMBLY
COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED

STATUS: 02

ASS. 12NC: 3922 406 55150

ASS. NAME: TRIAX MOTHERBOARD

PCB. 12NC: 3922 411 54801

ASSEMBLY BOTTOM

CURR. DATE: 10-02-18

SCALE 0.7 : 1

PREV. DATE: 09-11-30

P. VISSERS

ORG. DATE: 09-08-04

H VERMEULEN

SHEET: 110-2

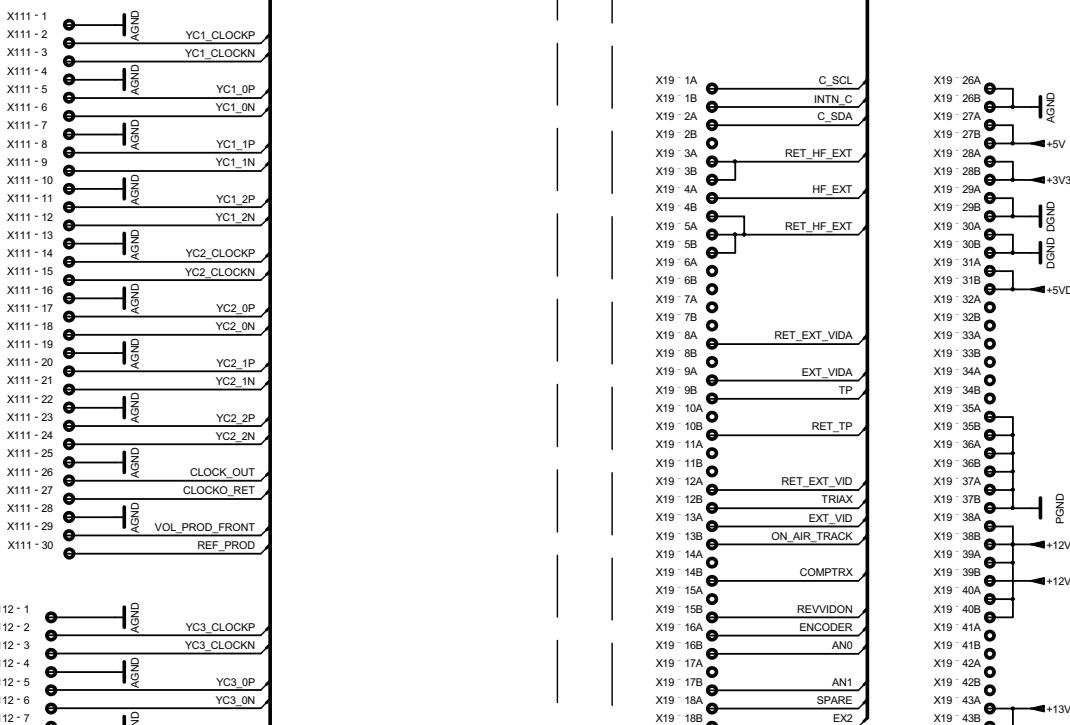
GRASS VALLEY NEDERLAND B.V. - BREDA

ASSEMBLY LAYER BOTTOM

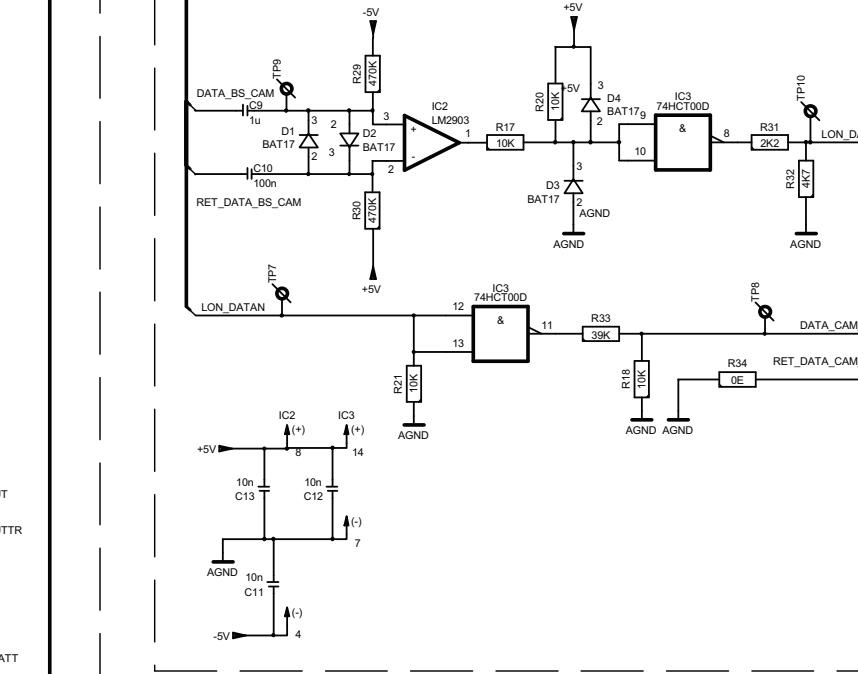
1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

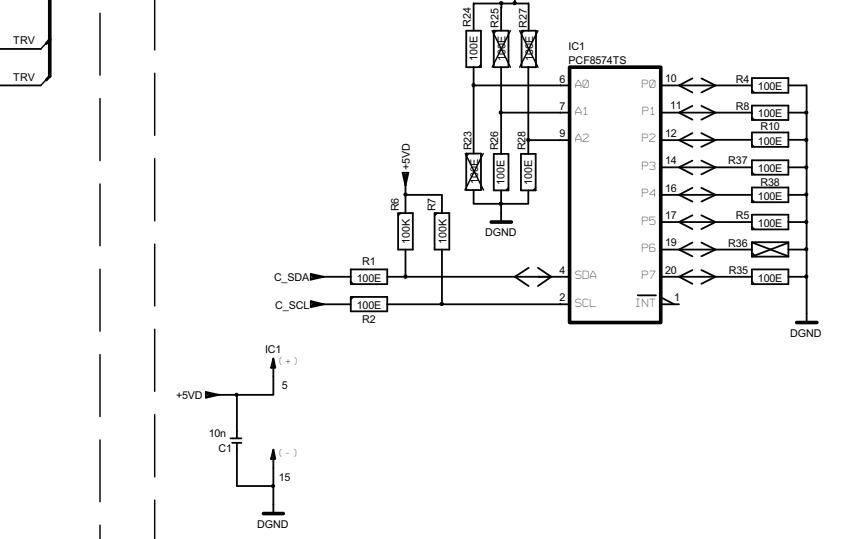
Video Rec/Converter TP HD



Data Transmission



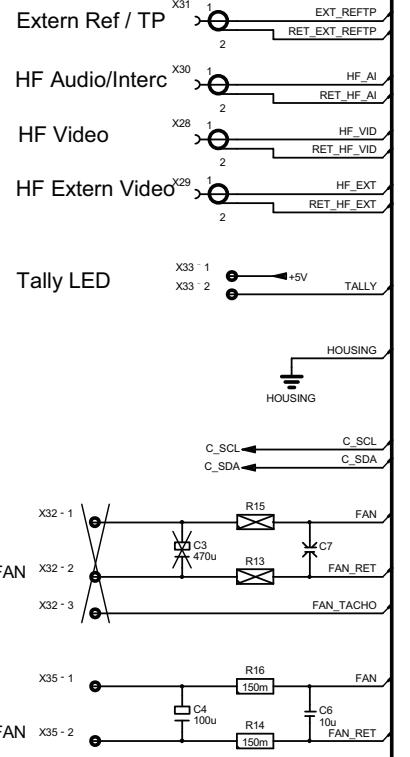
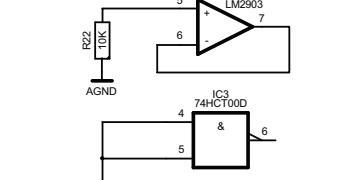
Adapter ID



For Test Purposes

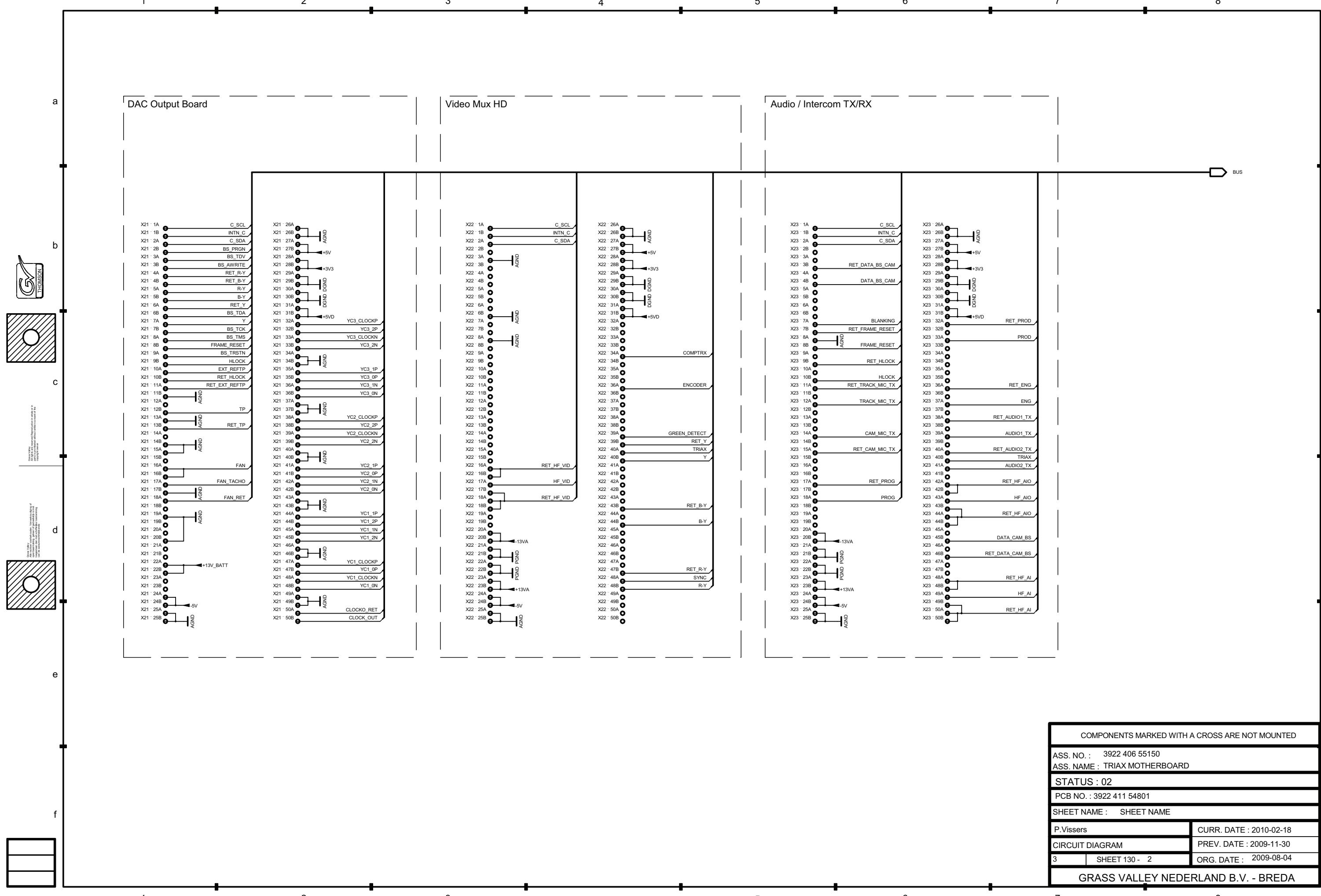


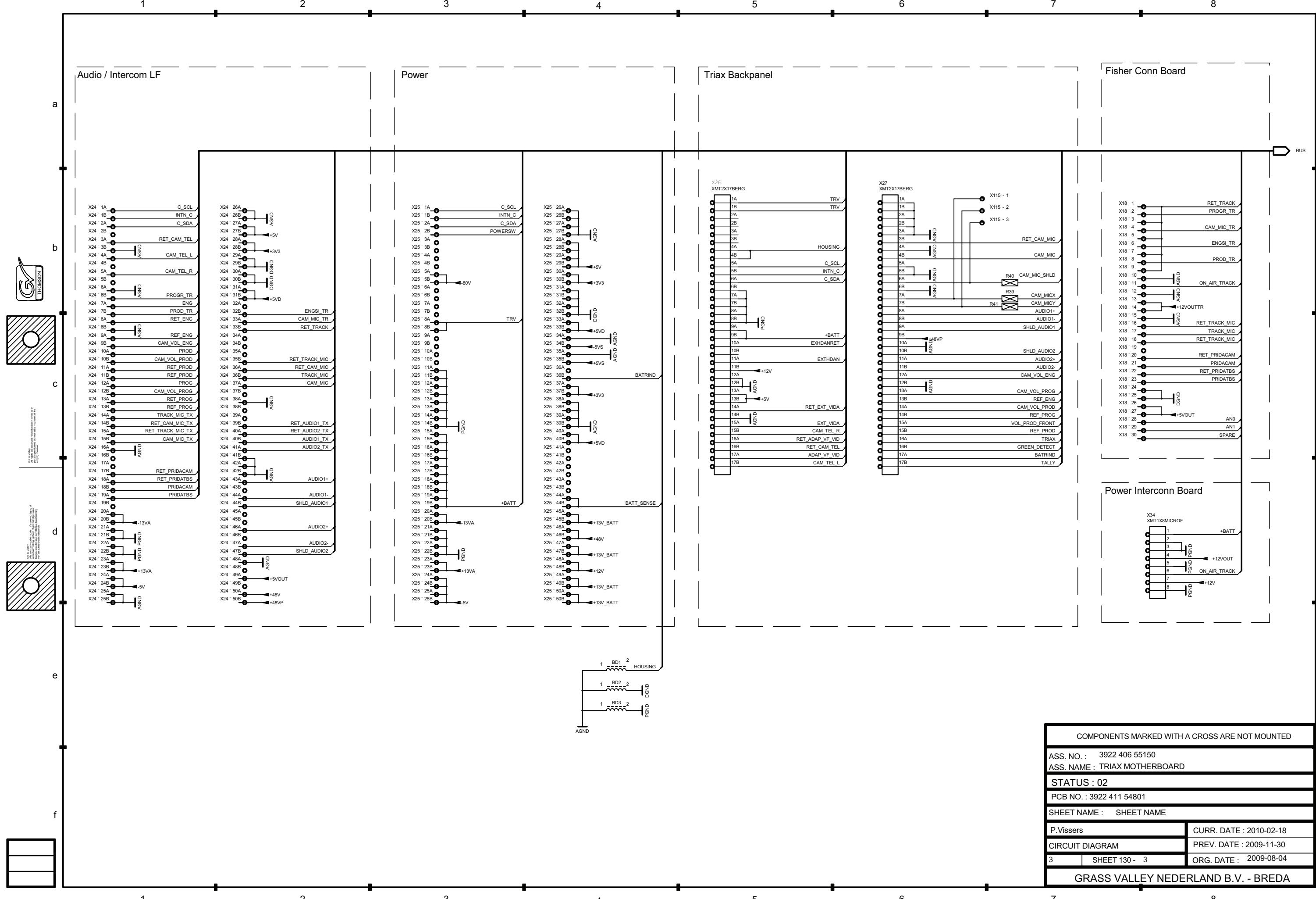
Not Used



COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED	
ASS. NO. :	3922 406 55150
ASS. NAME :	TRIAX MOTHERBOARD
STATUS : 02	
PCB NO. : 3922 411 54801	
SHEET NAME : SHEET NAME	
P.Vissers	CURR. DATE : 2010-02-18
CIRCUIT DIAGRAM	
PREV. DATE : 2009-11-30	
3	SHEET 130 - 1
ORG. DATE : 2009-08-04	
GRASS VALLEY NEDERLAND B.V. - BREDA	

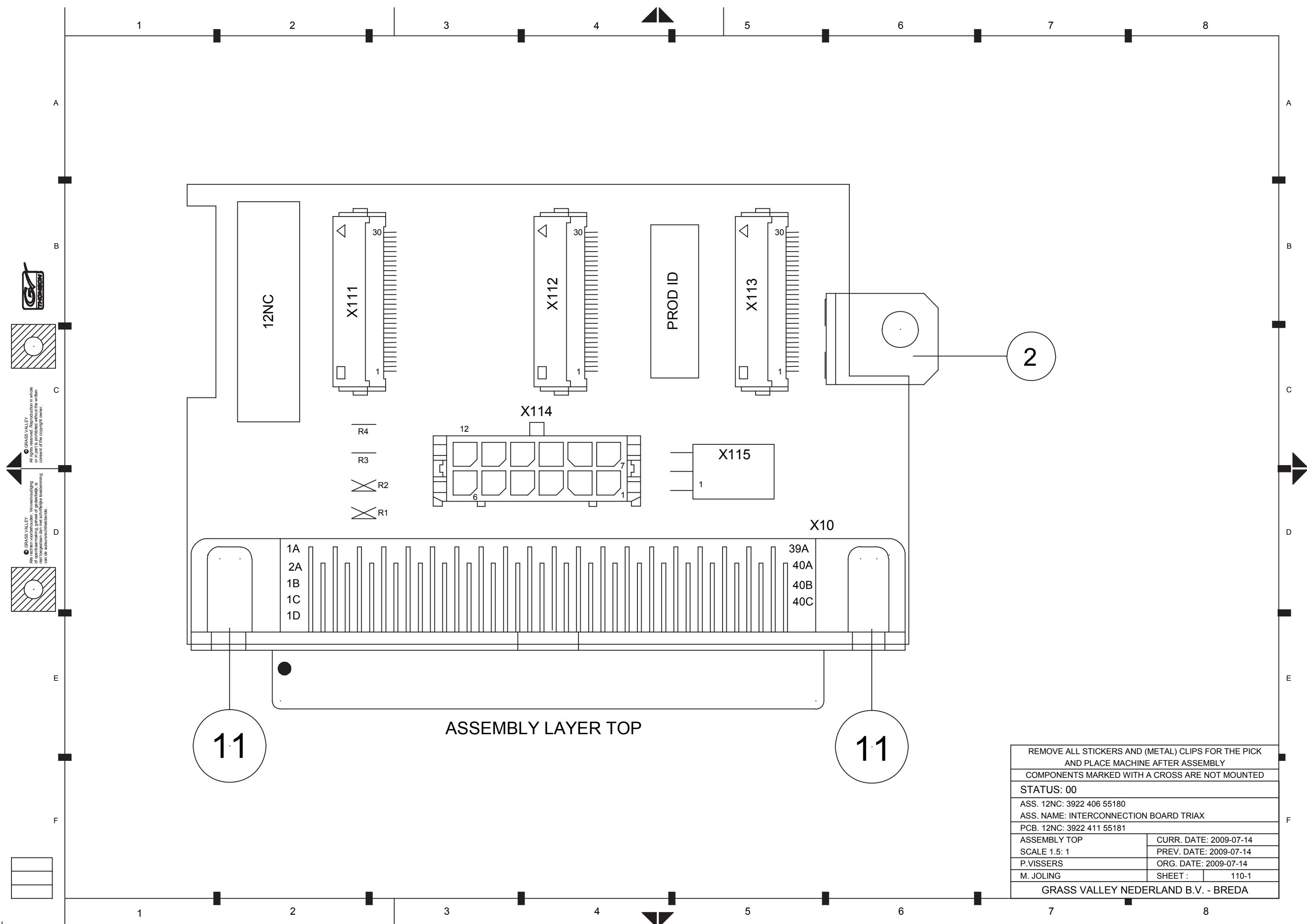
1 2 3 4 5 6 7 8





3922 406 55151;1 TRIAX MOTHERBOARD

Ref	Description	Part 12nc	Service part
	No sparecomponents available		



1 2 3 4 5 6 7 8

A

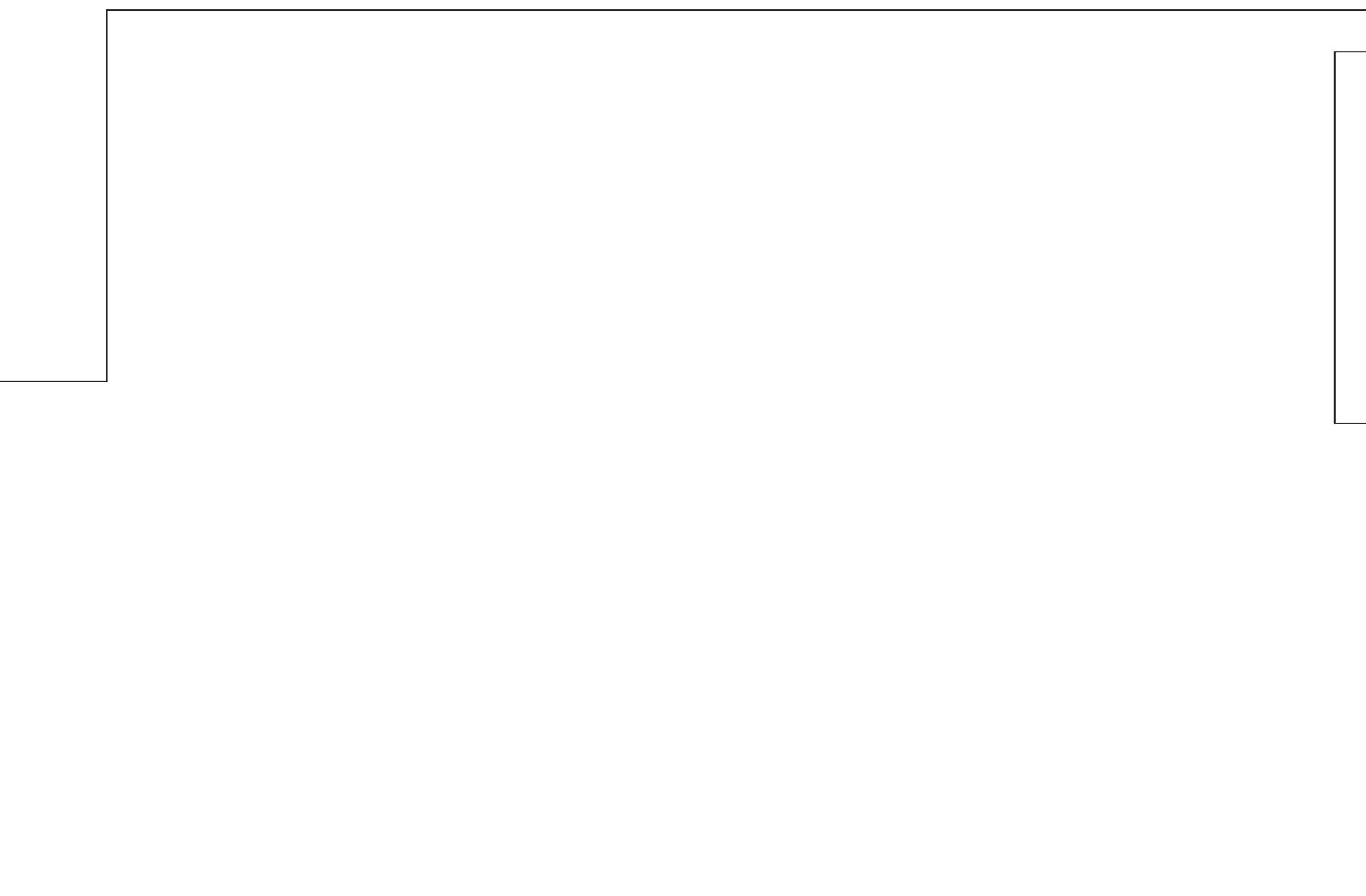
A

B

B



GRASS VALLEY
Alle rechten voorbehouden. Vervelendrukking
of openbaarmaking gedeelte of geheel, is
wel toegestaan dan wel schriftelijk bestemming
van de auteur en/of de beheerder.



ASSEMBLY LAYER BOTTOM

REMOVE ALL STICKERS AND (METAL) CLIPS FOR THE PICK
AND PLACE MACHINE AFTER ASSEMBLY
COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED

STATUS: 00

ASS. 12NC: 3922 406 55180

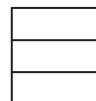
ASS. NAME: INTERCONNECTION BOARD TRIAX

PCB. 12NC: 3922 411 55181

ASSEMBLY BOTTOM	CURR. DATE: 2009-07-14
SCALE 1.5: 1	PREV. DATE: 2009-07-14
P.VISSENS	ORG. DATE: 2009-07-14
M. JOLING	SHEET: 110-2

GRASS VALLEY NEDERLAND B.V. - BREDA

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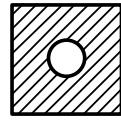
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1 2 3 4 5 6 7 8

Docking Connector



At the top of the connector, there is a small circular hole. This hole is used for alignment during the insertion process.



On the left side of the connector, there are two rectangular holes. These holes are used for alignment during the insertion process.

a

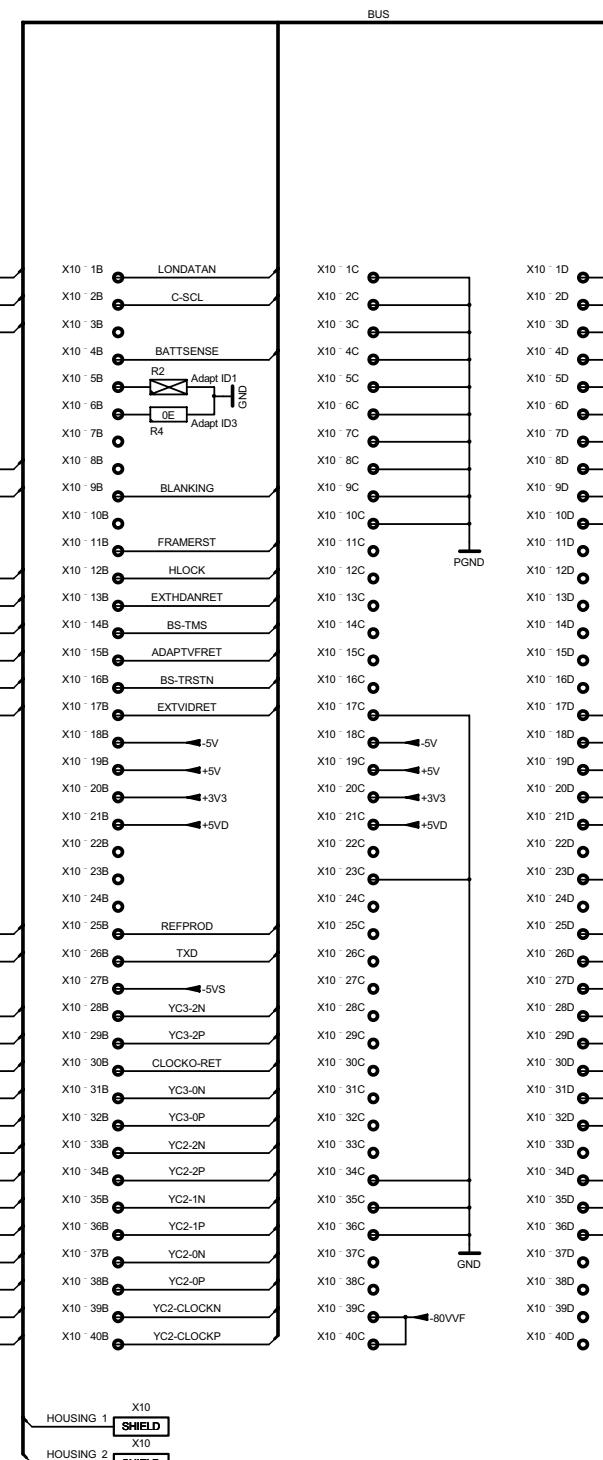
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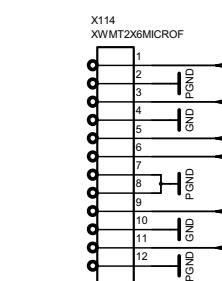
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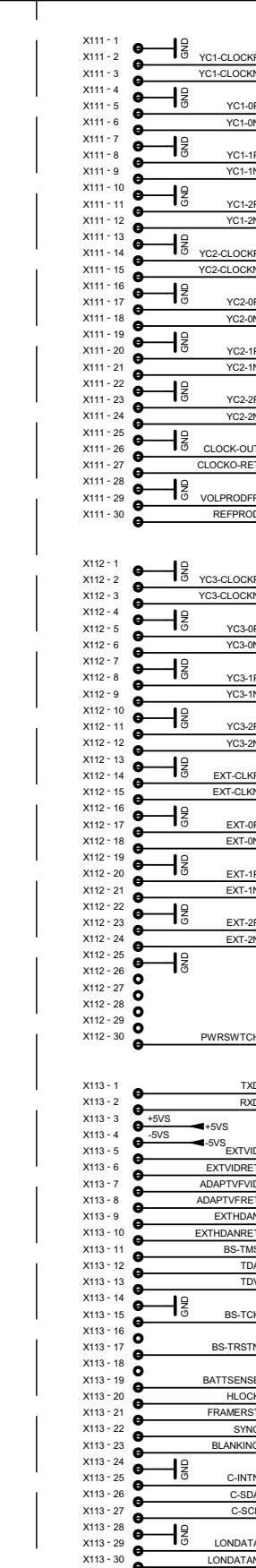


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COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED	
ASS. NO. :	3922 406 55180
ASS. NAME :	INTERCONNECTION BOARD TRIAX
STATUS : 00	
PCB NO. :	3922 411 55181
SHEET NAME : SHEET NAME	
P. VISSERS	CURR. DATE : 2009-07-14
CIRCUIT DIAGRAM	
1	PREV. DATE : 2009-07-14
ORG. DATE : 2009-07-14	
GRASS VALLEY NEDERLAND B.V. - BREDA	

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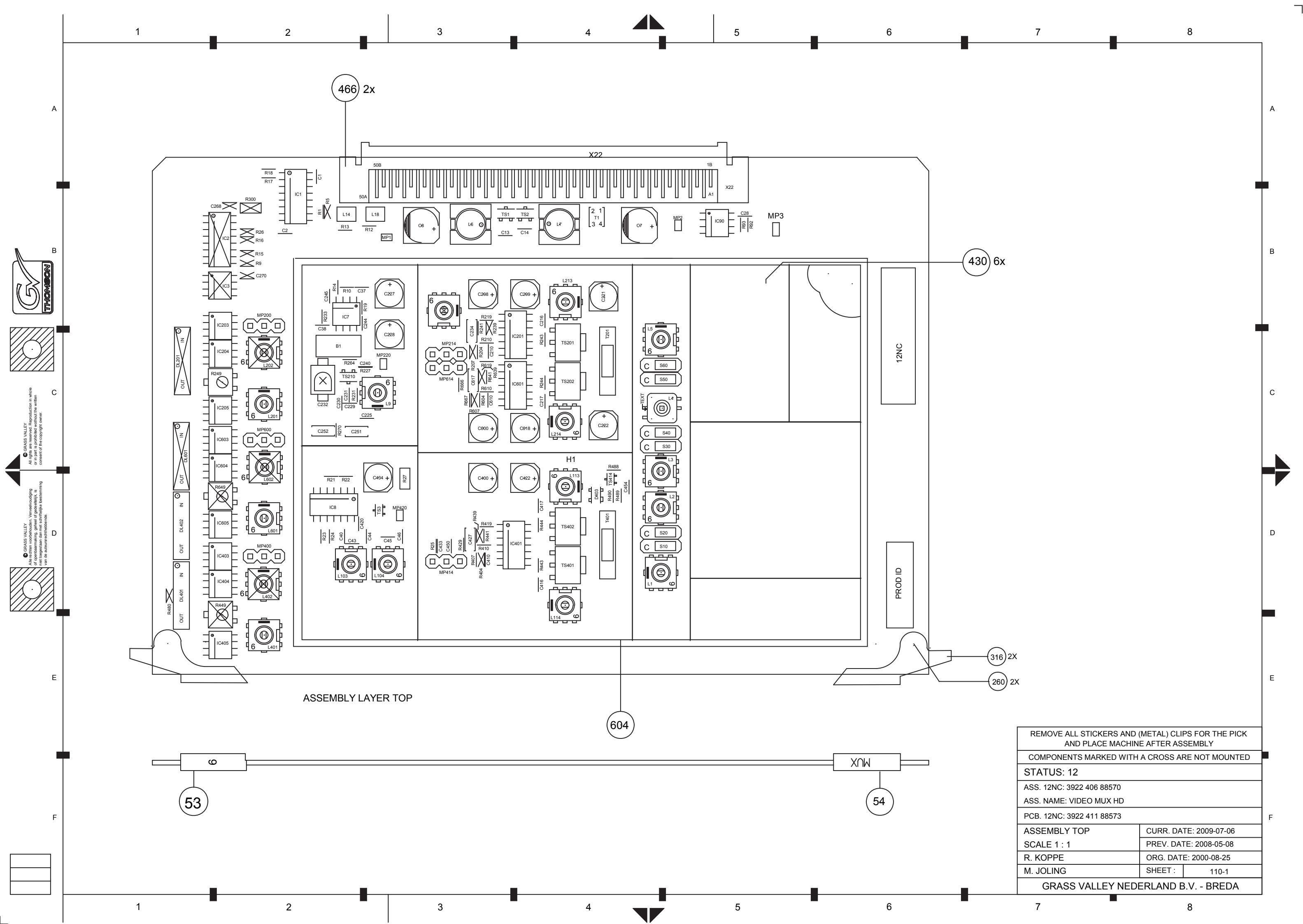
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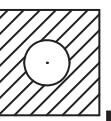
3922 406 55181;3 INTERCONNECTION BRD TRIAX

Ref	Description	Part 12nc	Service part
	No spare components available		





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10 of 10

A

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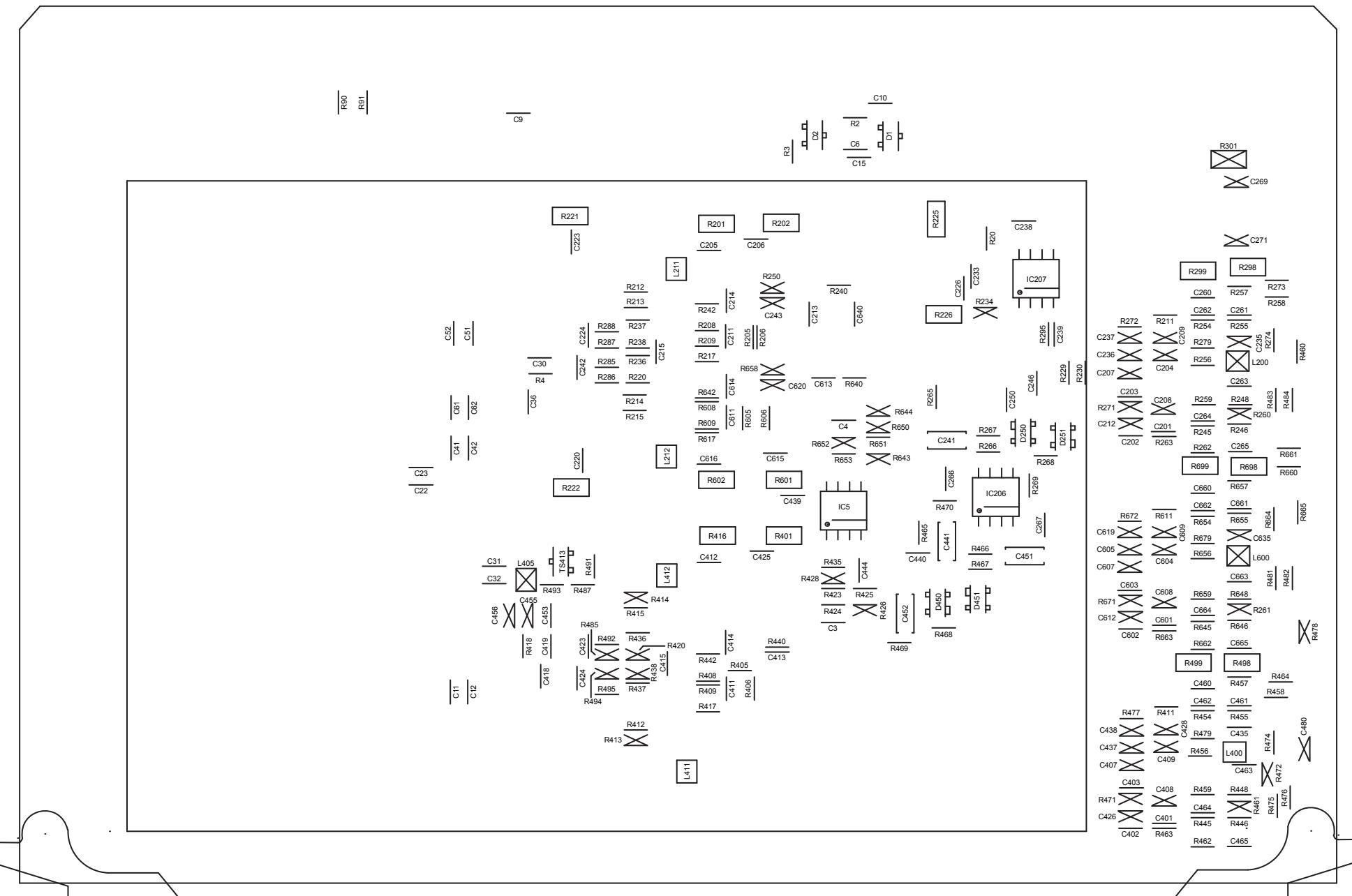
10 of 10

A square divided into four quadrants by diagonal lines. A small circle is centered at the intersection of the diagonals.

10 of 10

5

1



ASSEMBLY LAYER BOTTOM

**REMOVE ALL STICKERS AND (METAL) CLIPS FOR THE PICK
AND PLACE MACHINE AFTER ASSEMBLY**

COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED

STATUS: 12

ASS. 12NC: 3922 406 88570

ASS. NAME: VIDEO MUX HD

PCB. 12NC: 3922 411 88573

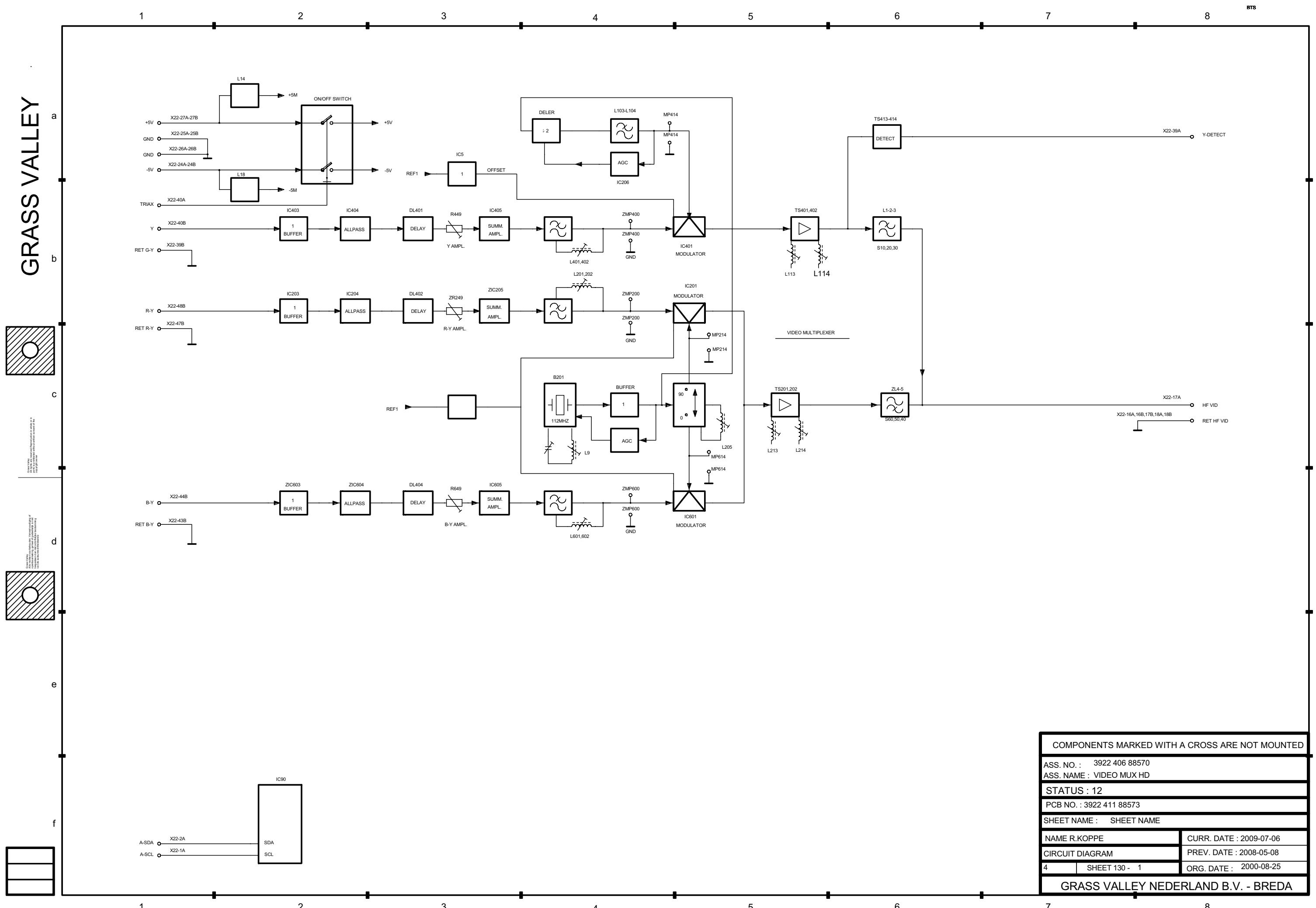
ASSEMBLY BOTTOM

PREV. DATE: 2008-05-08

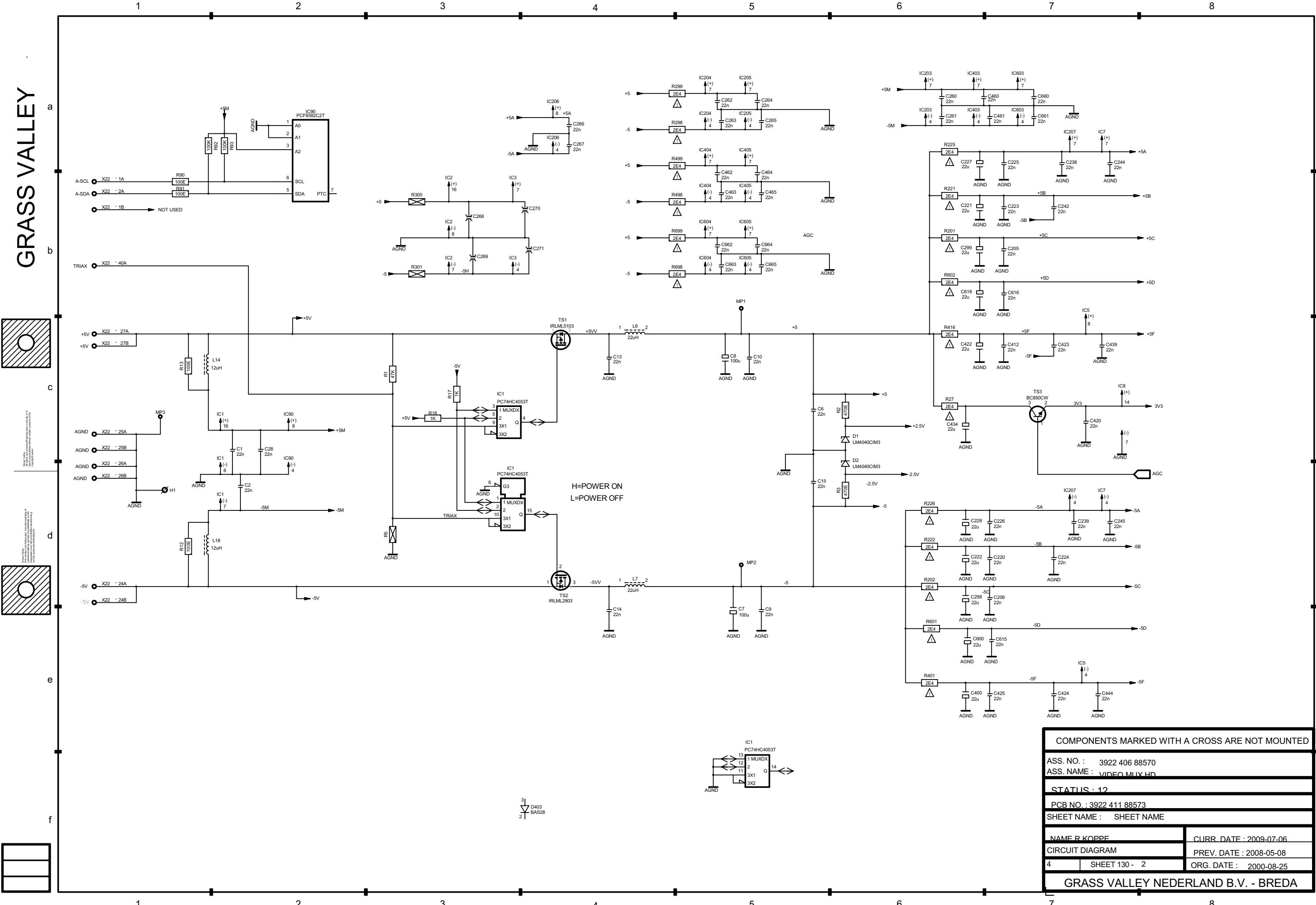
M. IOLING SHEET : 110-2

GRASS VALLEY NEDERLAND B.V. - BREDA

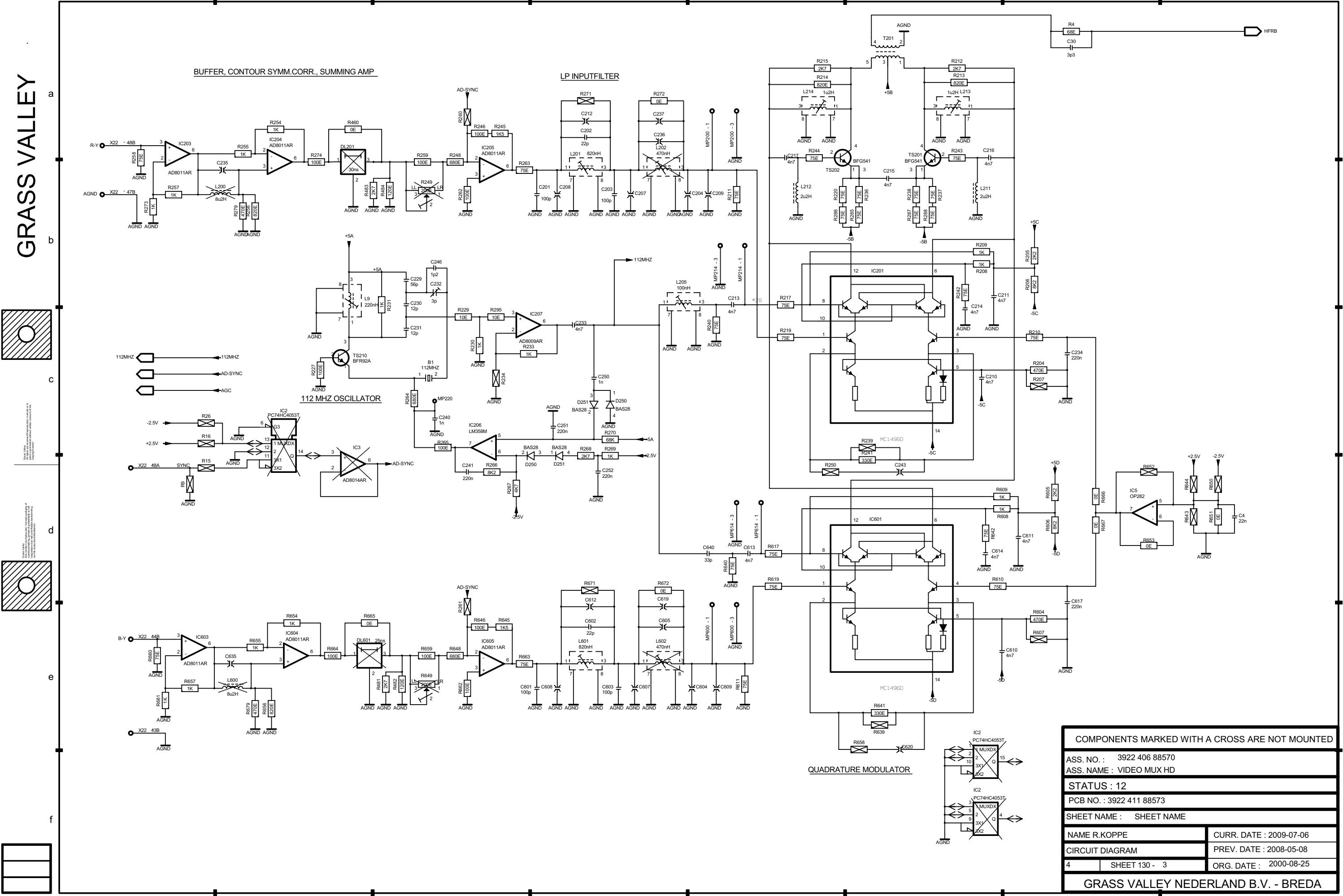
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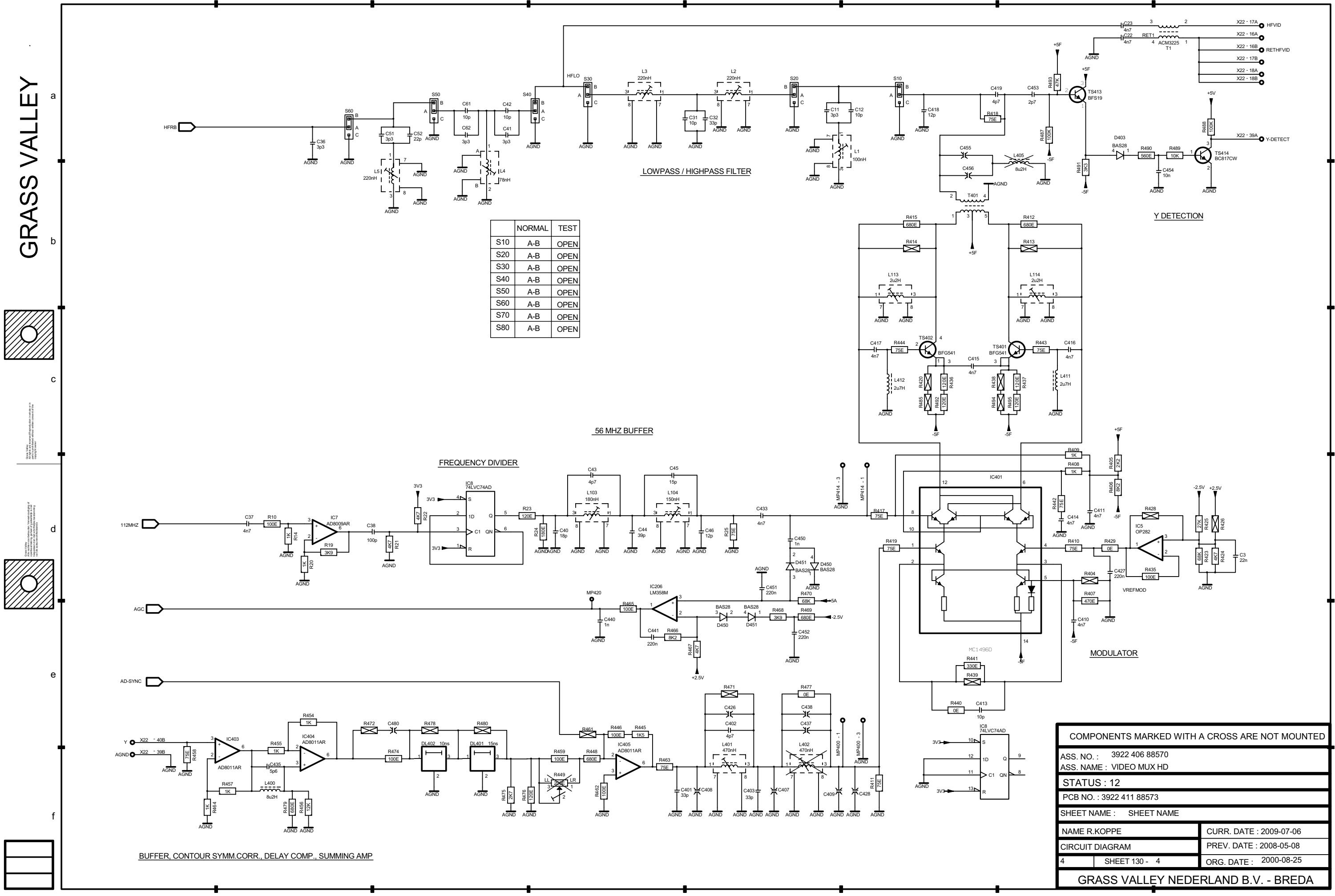
GRASS VALLEY



GRASS VALLEY

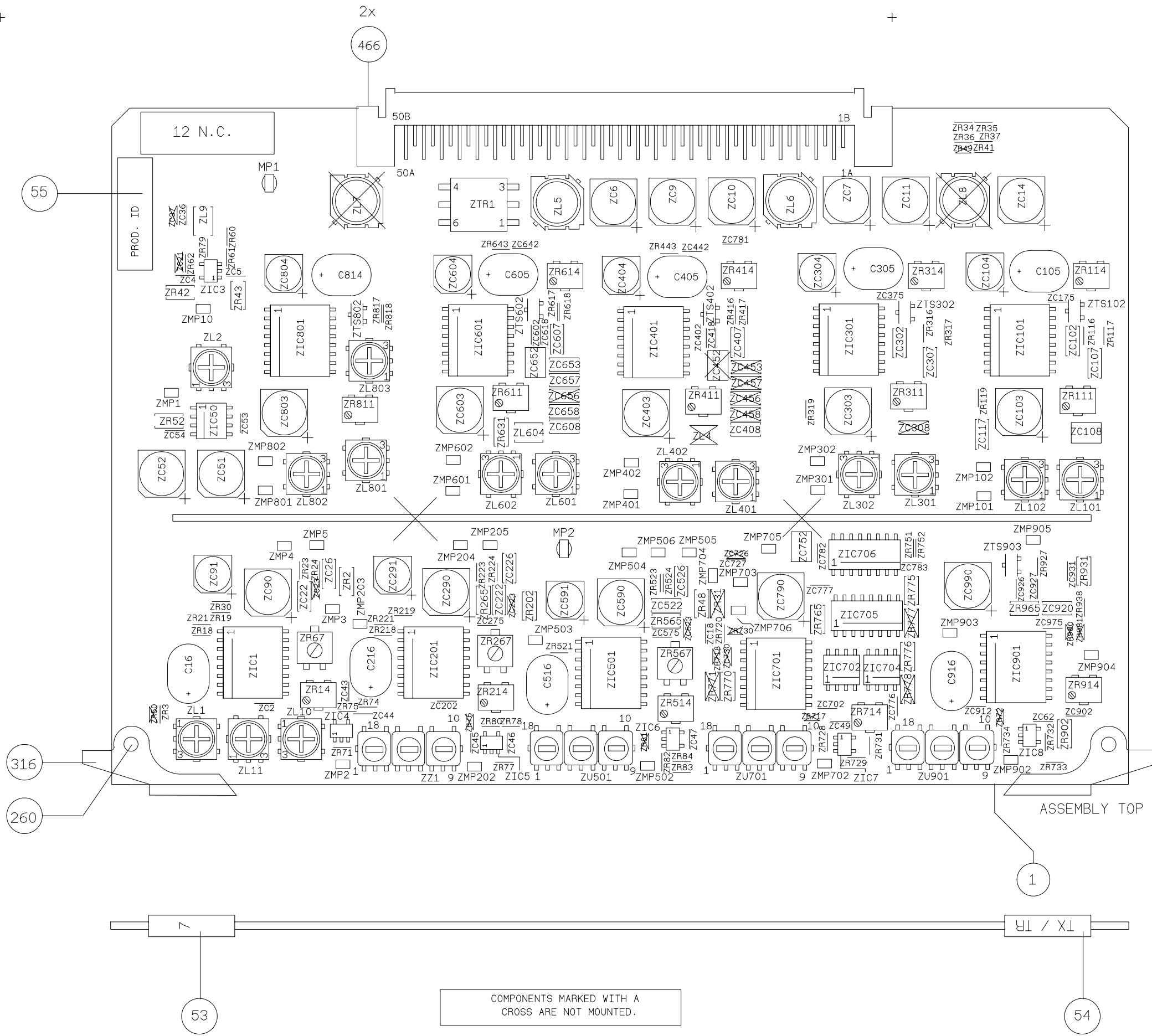


GRASS VALLEY

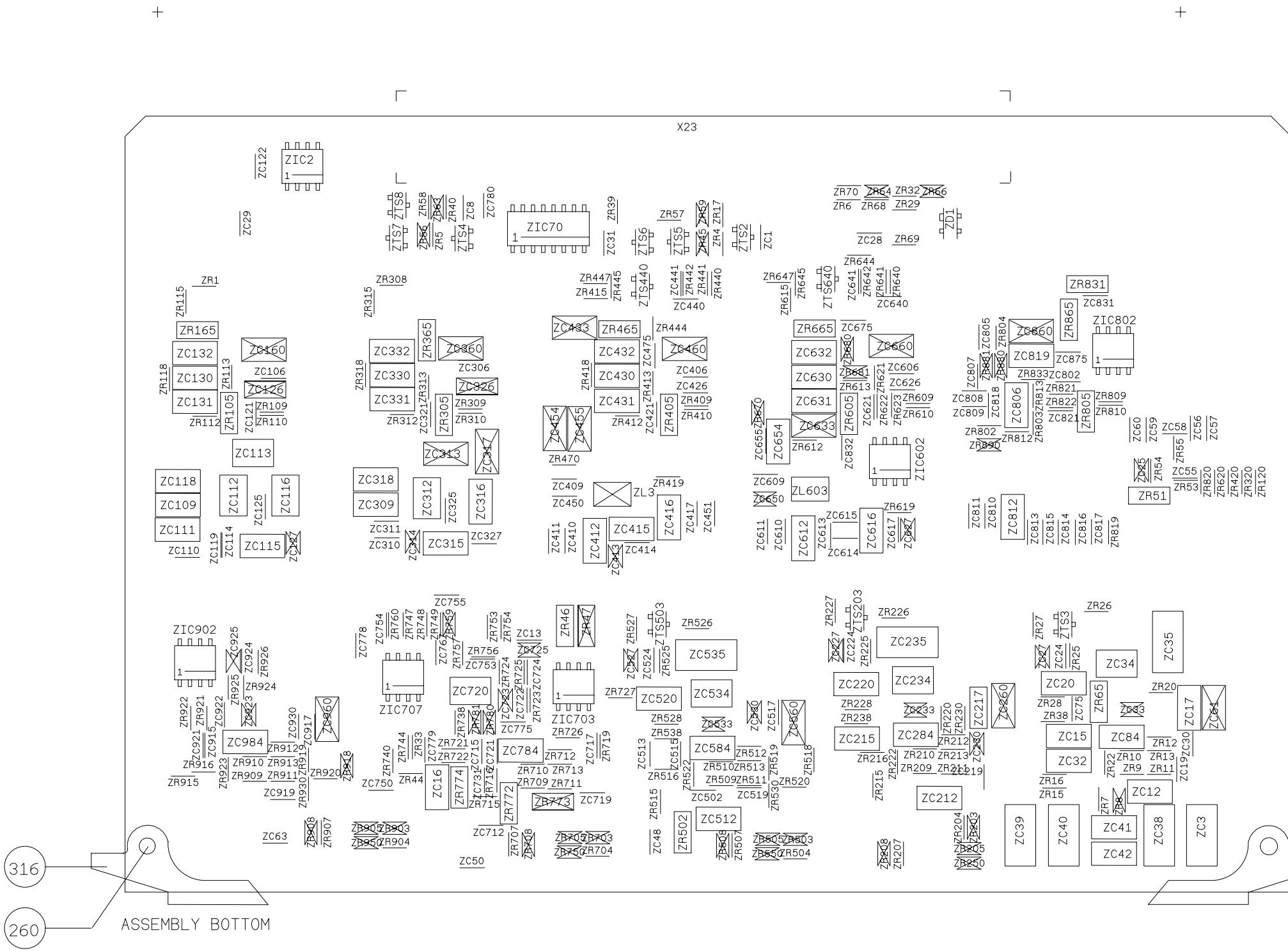


3922 406 88571;21 VIDEO MUX HD **Status: 11**

Ref	Description	Part 12nc	Service part
	No service parts available		



STATUS:	8	1	2	3	4	5	6	7	8	9
	10	11	12	13	14	15	16	17	18	19
ASS. 12NC: 3922 406 87870										
ASS. NAME: AUDIO INTERCOM TX/RX										
PCB 12NC: 3922 411 87873										
ASSEMBLY	CURR. DATE: 09-03-23									
	PREV. DATE: 09-03-10									
DRAWING		ORG. DATE: 99-04-10								
NAME: v. Wingerden		PROPERTY OF: 4 SH SHEET 110-1								
THOMSON-BREDA - THE NETHERLANDS										

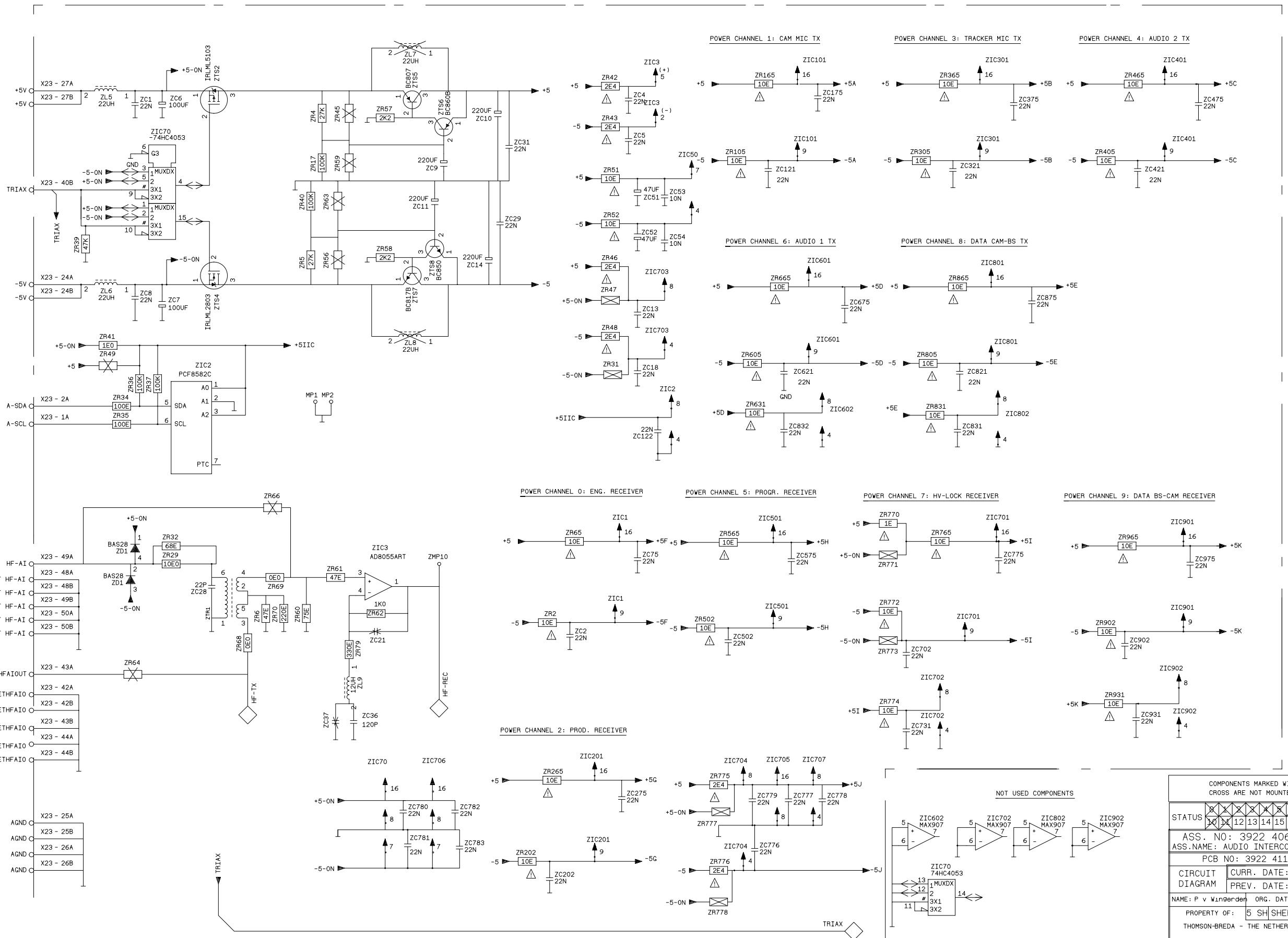


COMPONENTS MARKED WITH A
CROSS ARE NOT MOUNTED

STATUS:	0	1	2	3	4	5	6	7	8	9	
	10	11	12	13	14	15	16	17	18	19	
ASS. 12NC: 3922 406 87870											
ASS. NAME: AUDIO INTERCOM TX/RX											
PCB 12NC: 3922 411 87873											
ASSEMBLY DRAWING	CURR. DATE: 09-03-23										
	PREV. DATE: 09-03-10										
NAME: v.Wingerden	ORG. DATE: 99-04-10										
PROPERTY OF:	4 SH		SHEET		110-2						
THOMSON-BREDA - THE NETHERLANDS											

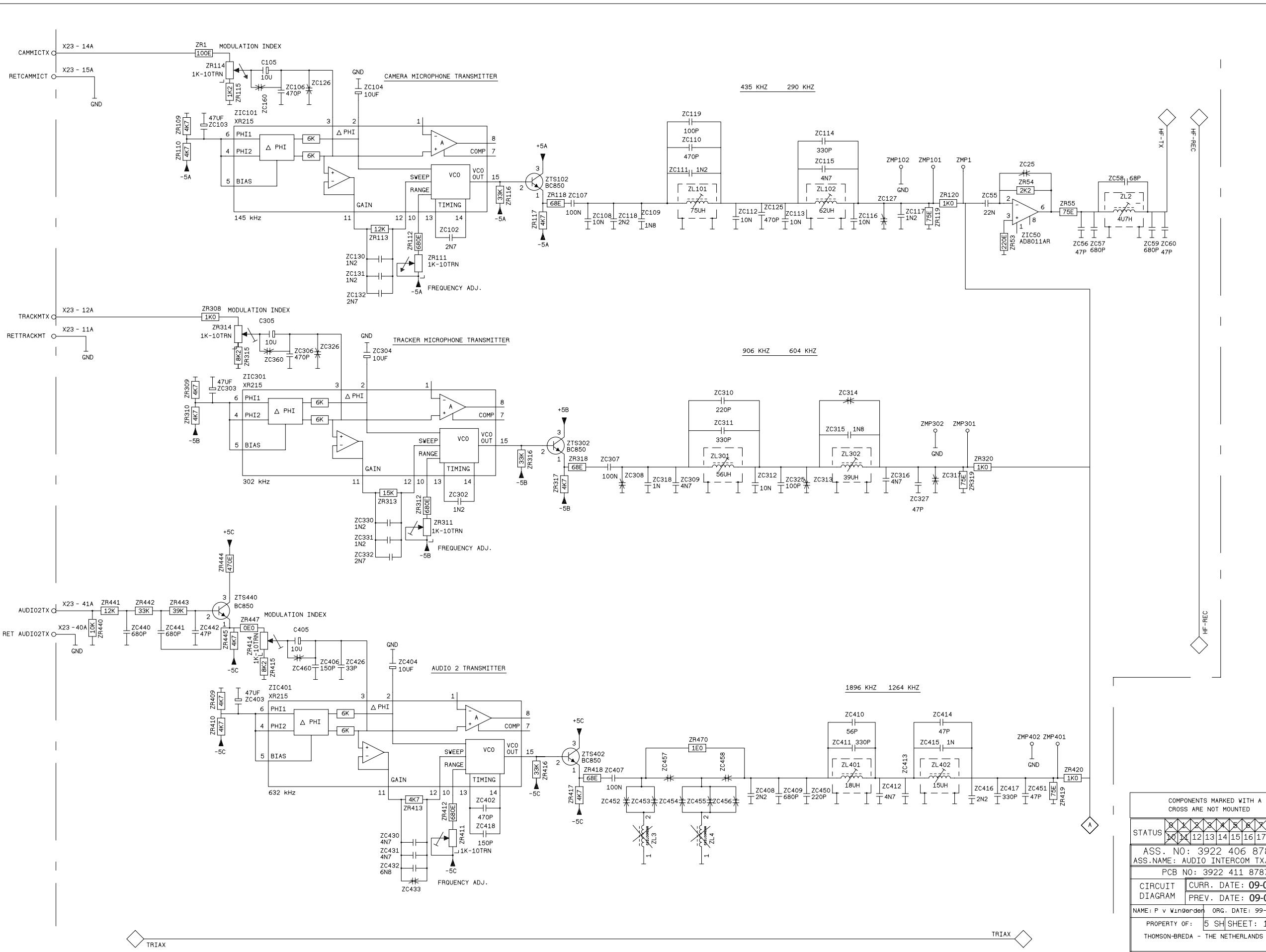
CONNECTORPUNTEM

BTS



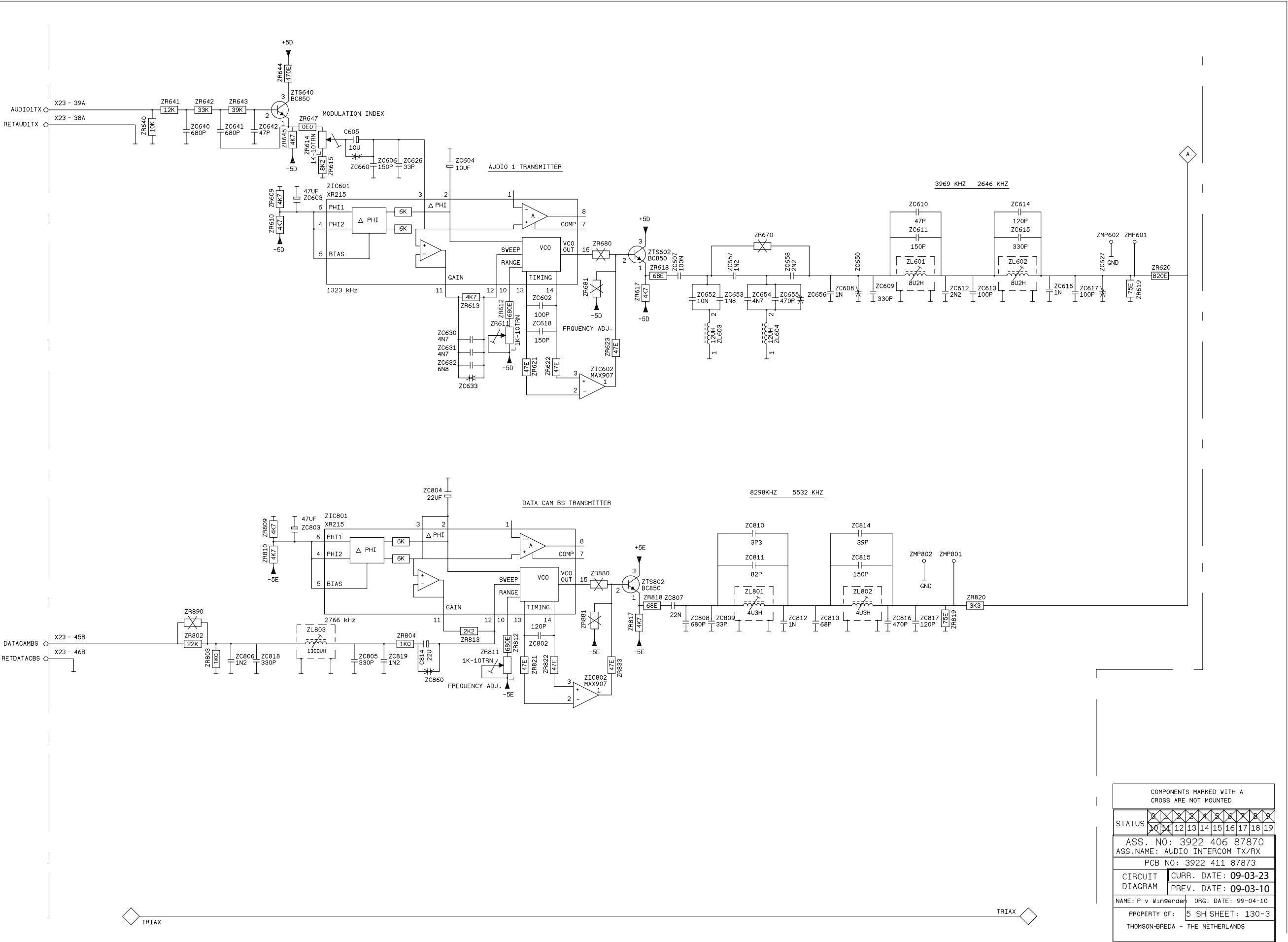
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BTS



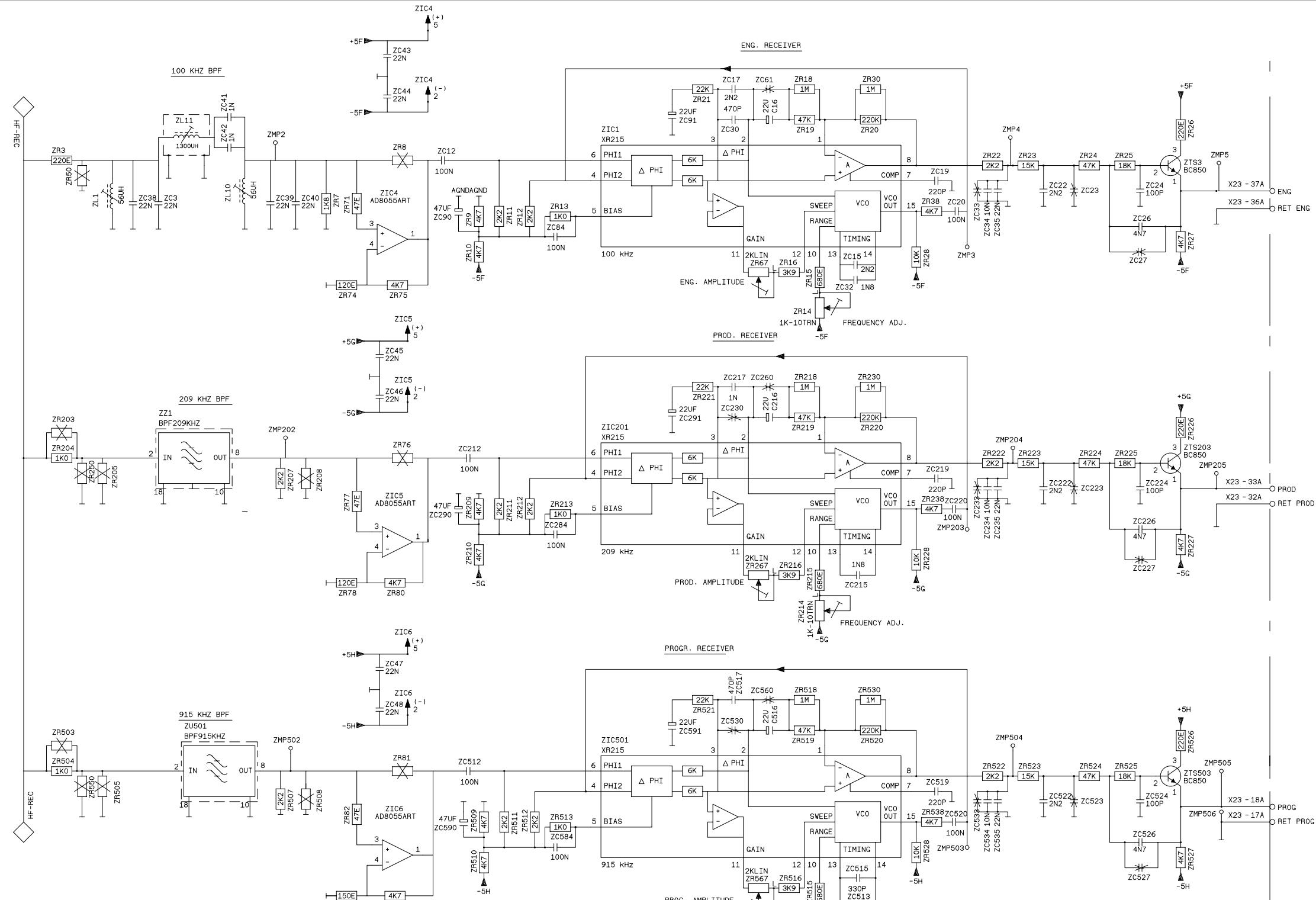
CONNECTORPUNTEN

BTS



CONNECTORPUNten

BTS

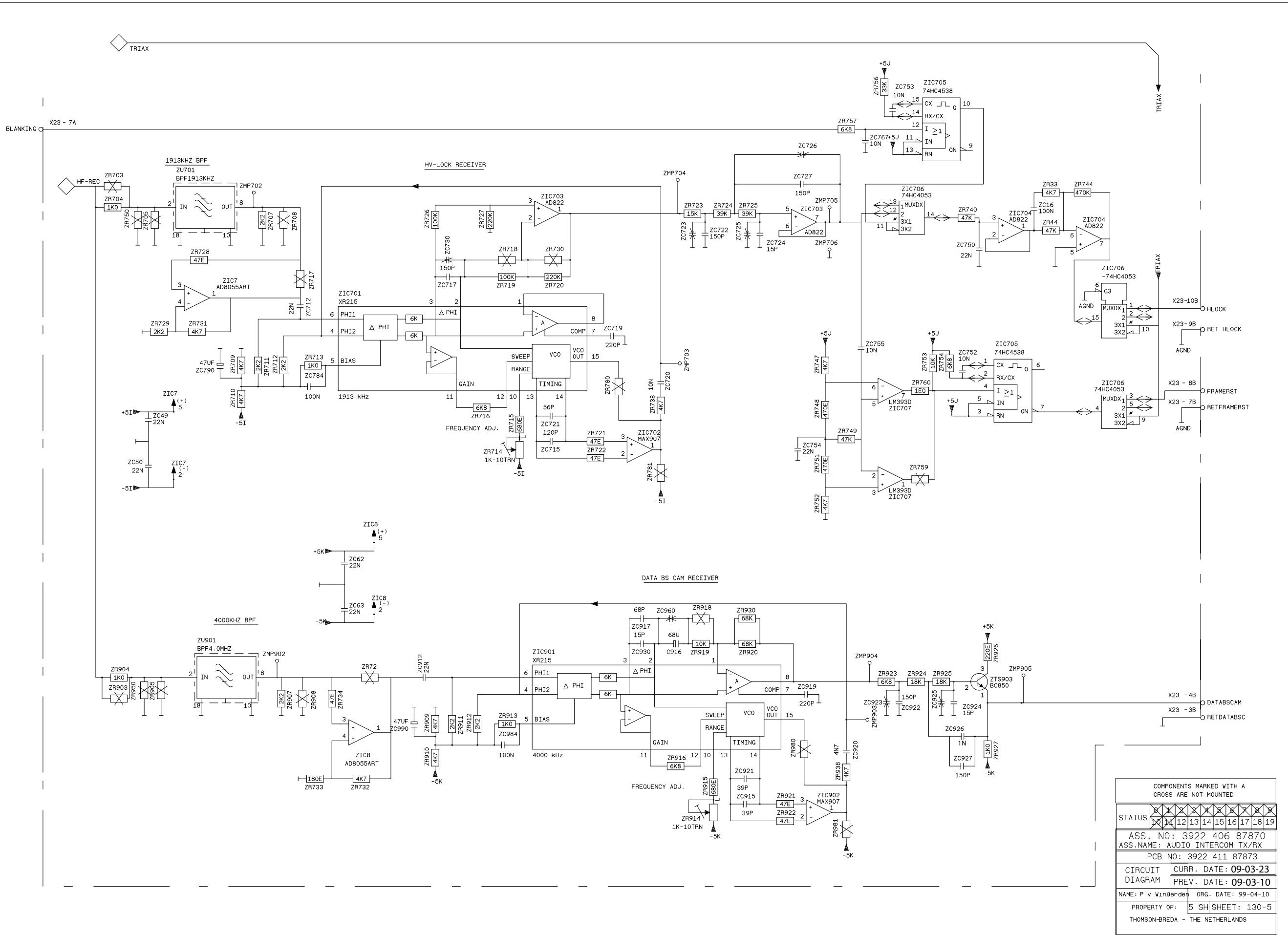


COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED	
STATUS	X X X X X X X X X X X X X X X X X X X X
ASS. NO:	3922 406 87870
ASS. NAME:	AUDIO INTERCOM TX/RX
PCB NO:	3922 411 87873
CIRCUIT	CURR. DATE: 09-03-23
DIAGRAM	PREV. DATE: 09-03-10
NAME:	P v Wingerden ORG. DATE: 99-04-10
PROPERTY OF:	5 SH SHEET: 130-4
	THOMSON-BREDA - THE NETHERLANDS



CONNECTORPUNTEN

BTS



3922 406 87871;23 AUDIO/INTERCOM TX/RX

Ref	Description	Part 12nc	Spare part
	No spare parts available, only complete board		

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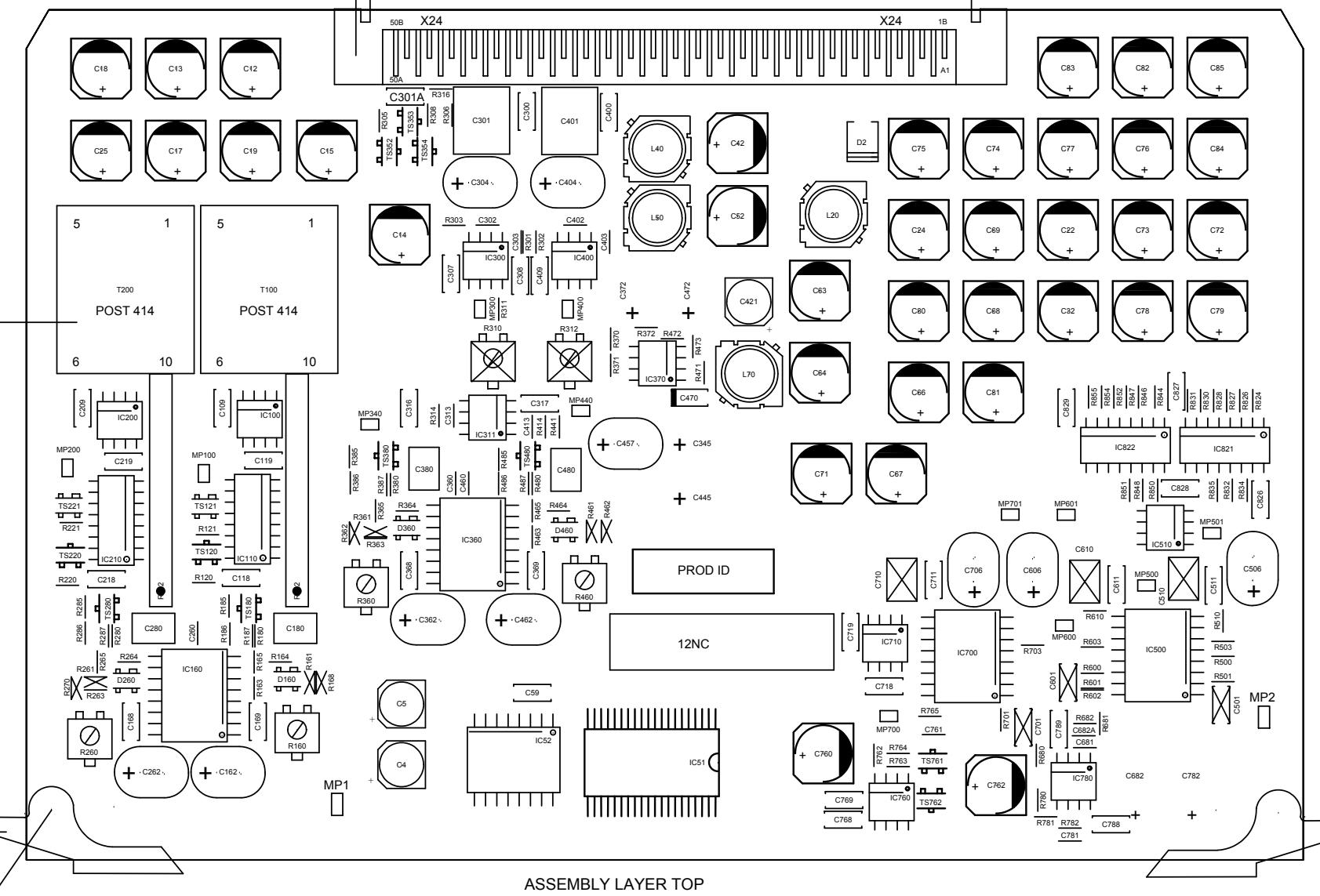
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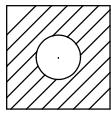


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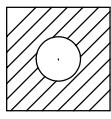
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Grassvalley

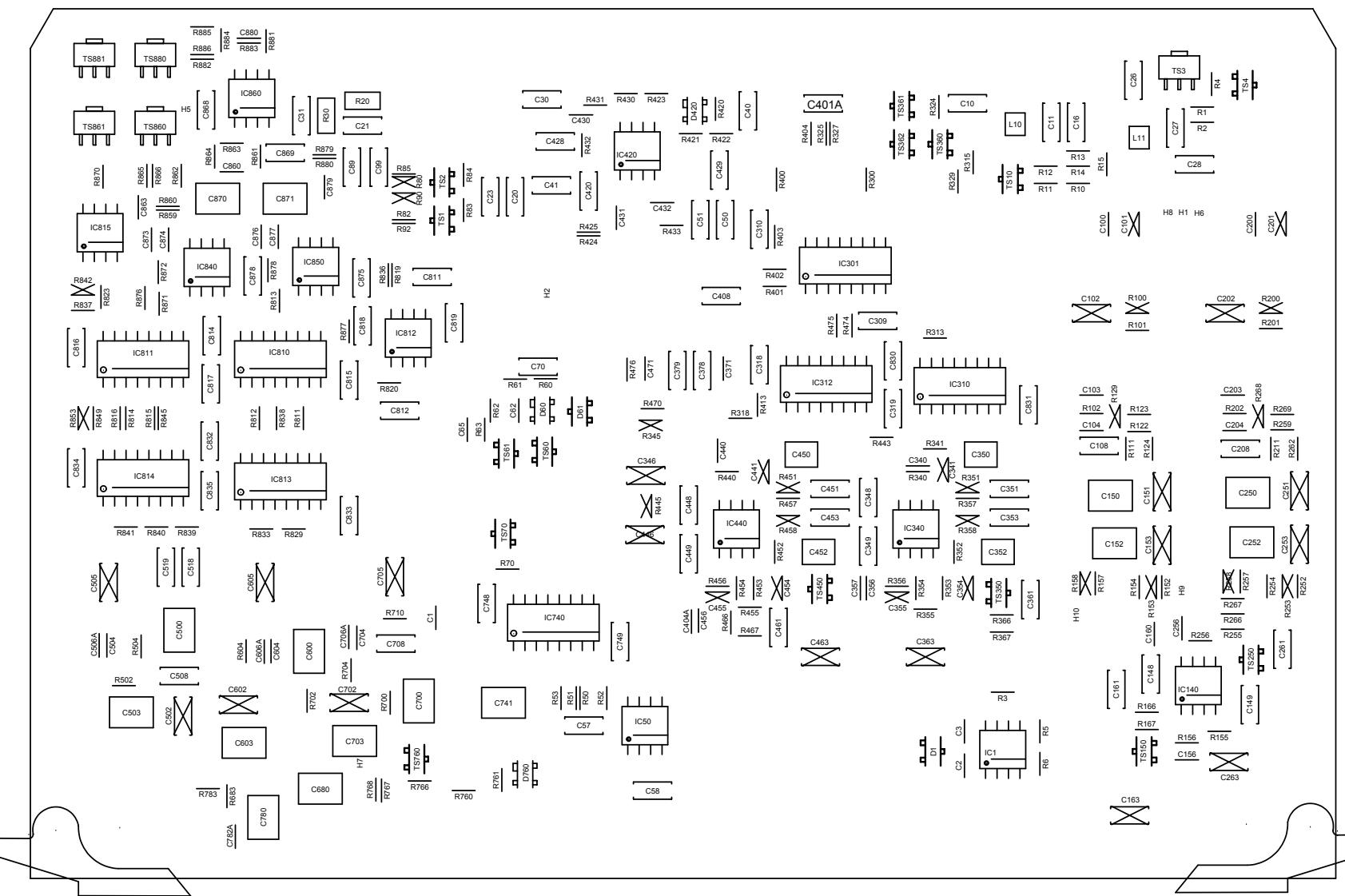


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van de uitgever in te voeren.



E

E



ASSEMBLY LAYER BOTTOM

REMOVE ALL STICKERS AND (METAL) CLIPS FOR THE PICK
AND PLACE MACHINE AFTER ASSEMBLY
COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED

STATUS: 13

ASS. 12NC: 3922 406 87880

ASS. NAME: AUDIO INTERCOM LF

PCB. 12NC: 3922 411 87884

ASSEMBLY BOTTOM	CURR. DATE: 2008-06-04
SCALE 1.5: 1	PREV. DATE: 2007-07-25

P.V.WINGERDEN	ORG. DATE: 1999-04-09
---------------	-----------------------

M. JOLING	SHEET : 110-2
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GRASS VALLEY NEDERLAND B.V. - BREDA

1 2 3 4 5 6 7 8

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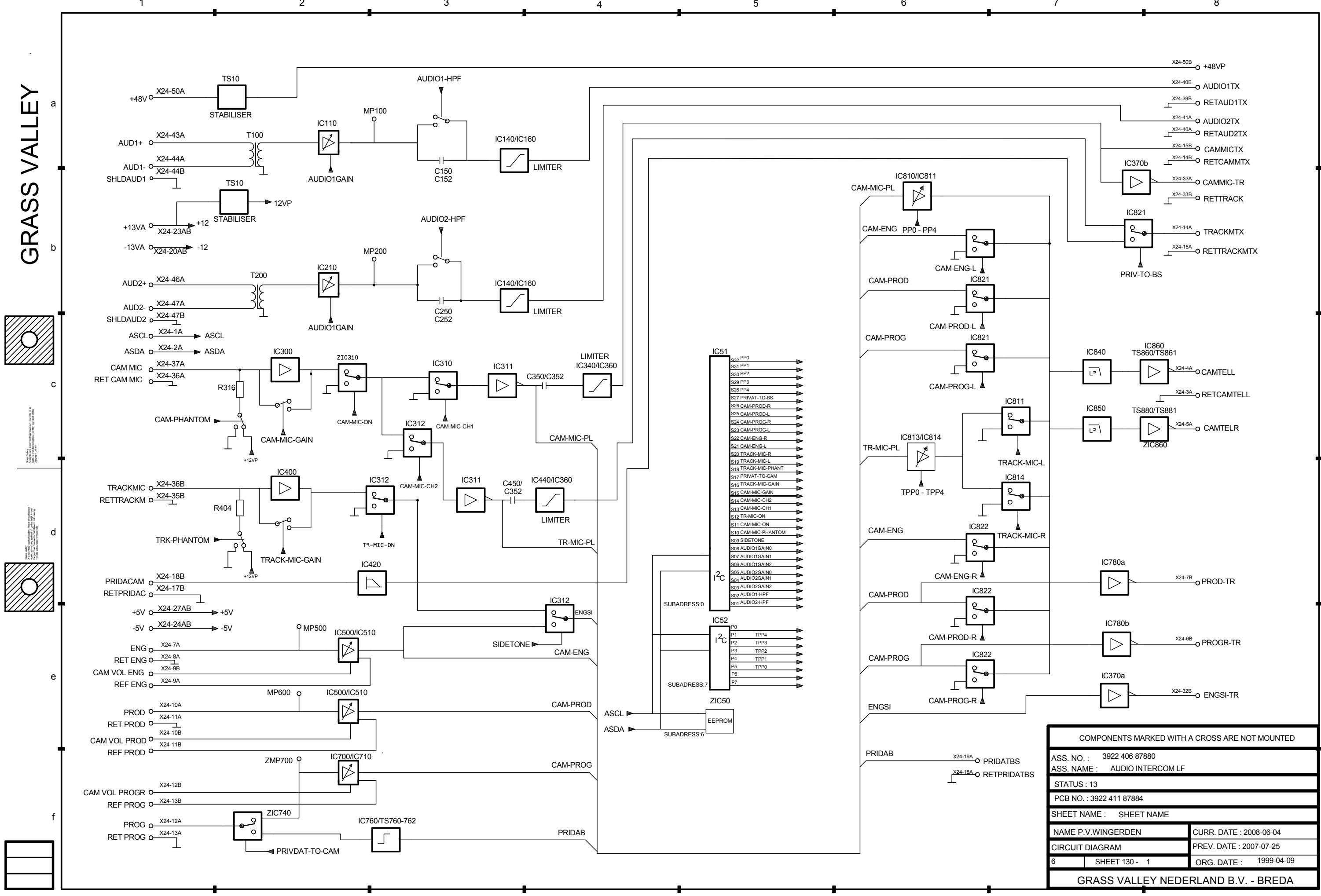
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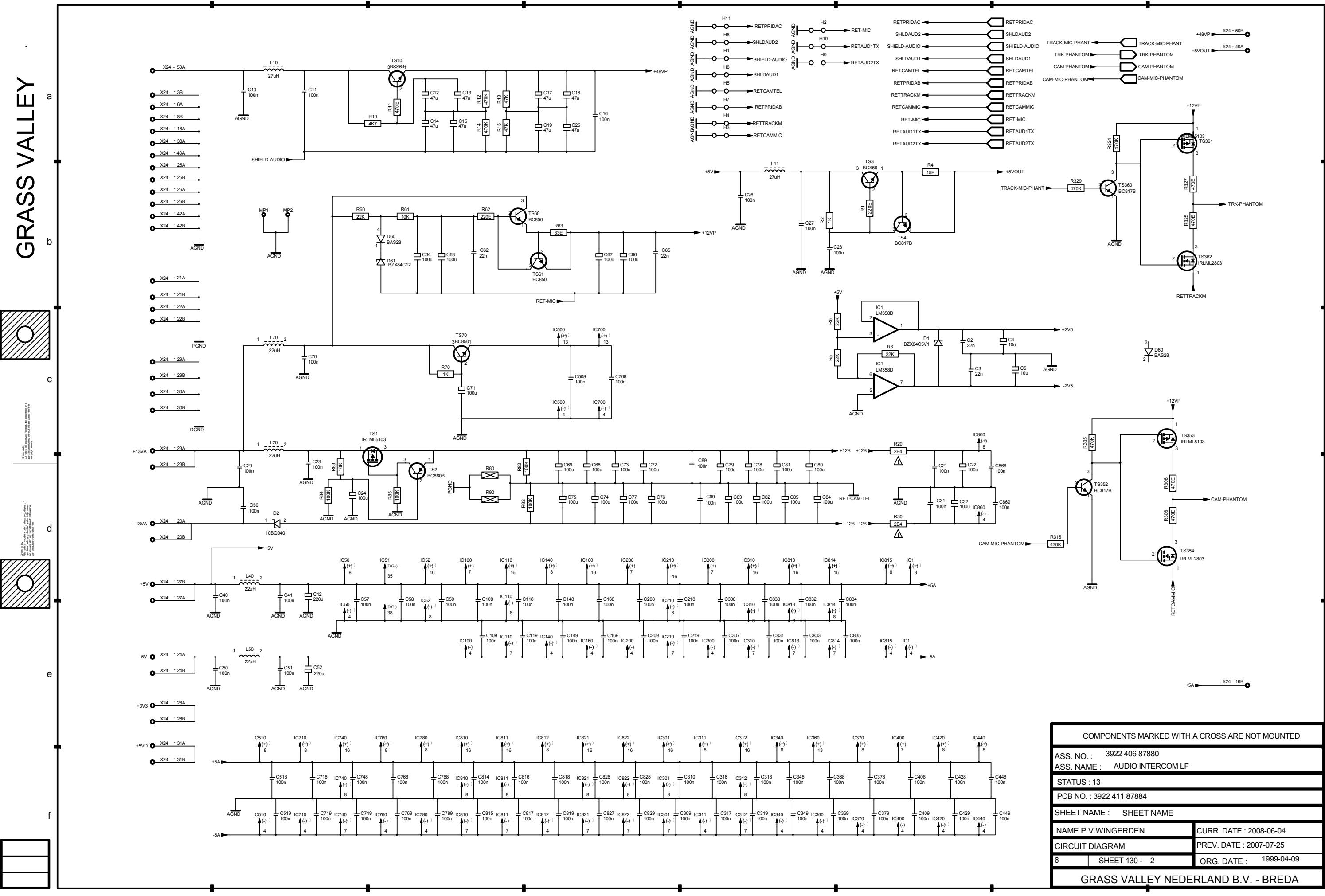
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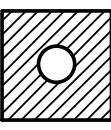
GRASS VALLEY



GRASS VALLEY



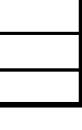
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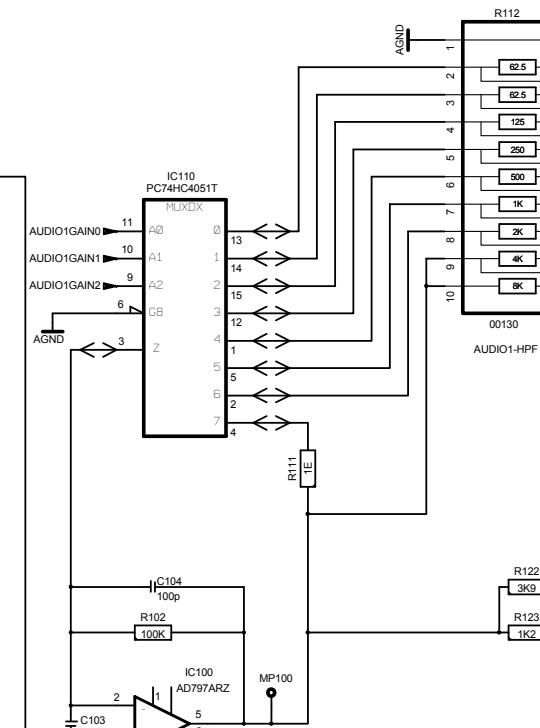
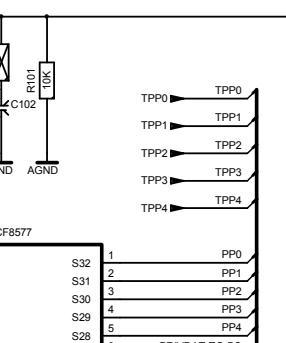
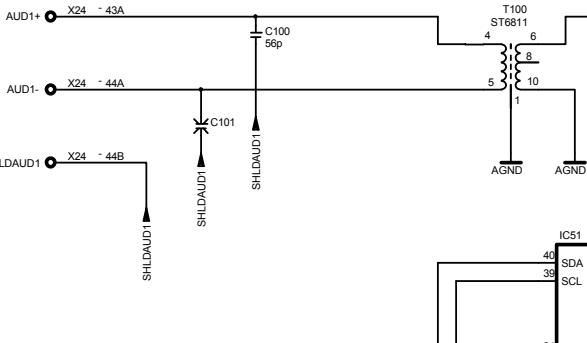
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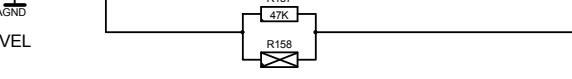
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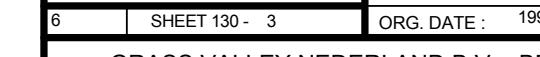
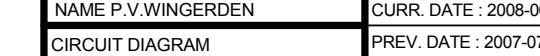
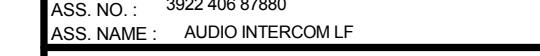
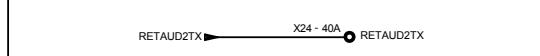
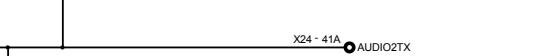
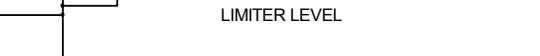
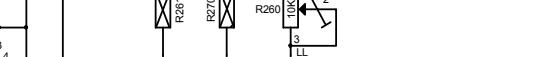
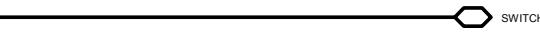
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SHLDAUD2	SHLDAUD2	SHLDAUD2
SHLDAUD1	SHLDAUD1	SHLDAUD1
RETCAMTEL	RETCAMTEL	RETCAMTEL
RETPRIDAB	RETPRIDAB	RETPRIDAB
RETTRACKM	RETTRACKM	RETTRACKM
RETCAMMIC	RETCAMMIC	RETCAMMIC
RET-MIC	RET-MIC	RET-MIC
RETAUD1TX	RETAUD1TX	RETAUD1TX
RETAUD2TX	RETAUD2TX	RETAUD2TX
TRK-PHANTOM	TRK-PHANTOM	TRK-PHANTOM
TRACK-MIC-PHANT	TRACK-MIC-PHANT	TRACK-MIC-PHANT



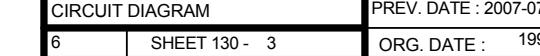
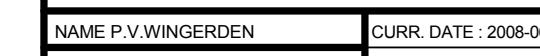
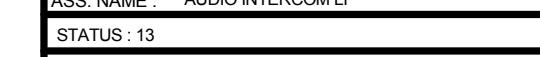
PRESET LEVEL



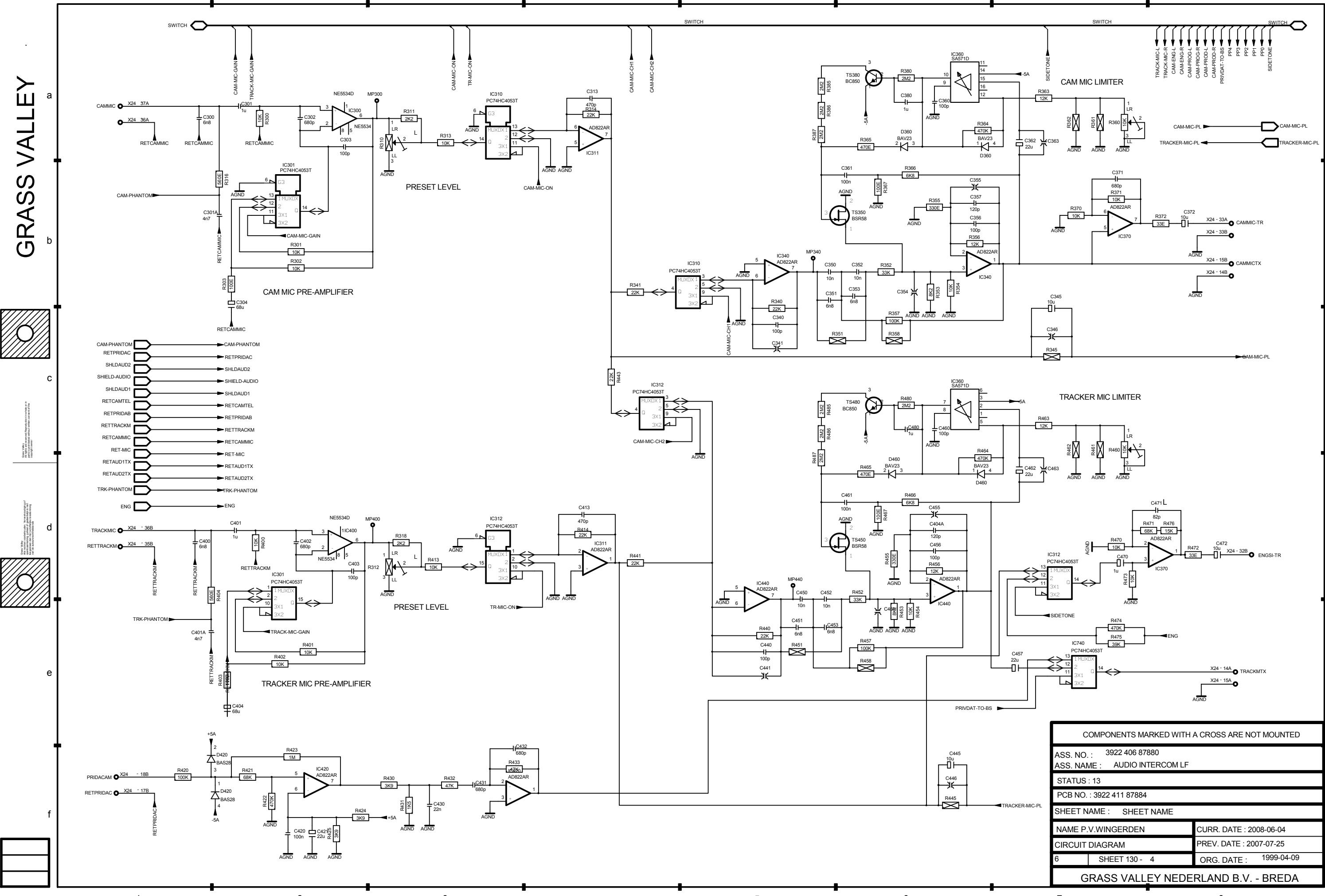
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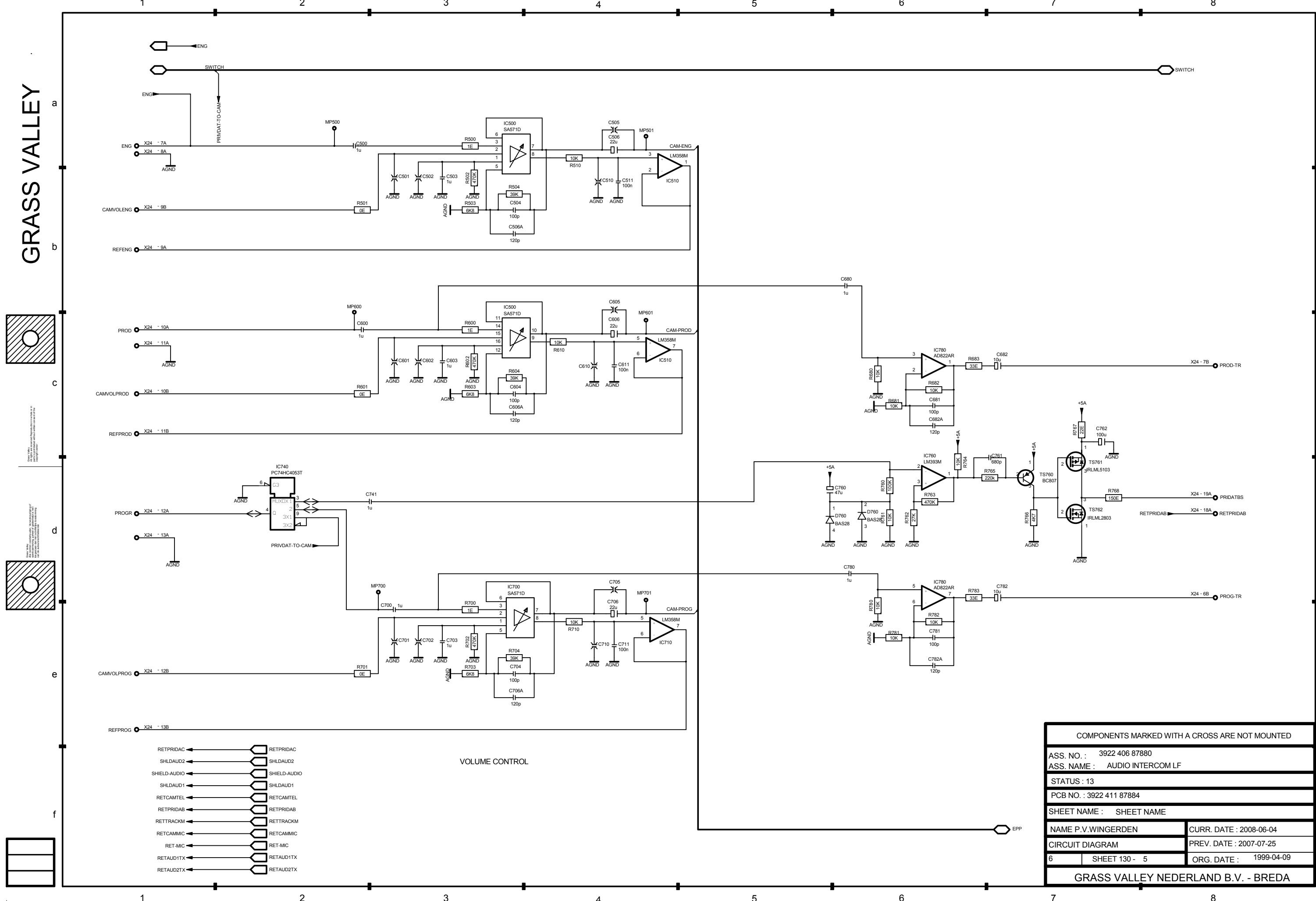
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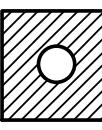
GRASS VALLEY



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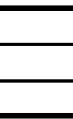


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SWITCH

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SWITCH

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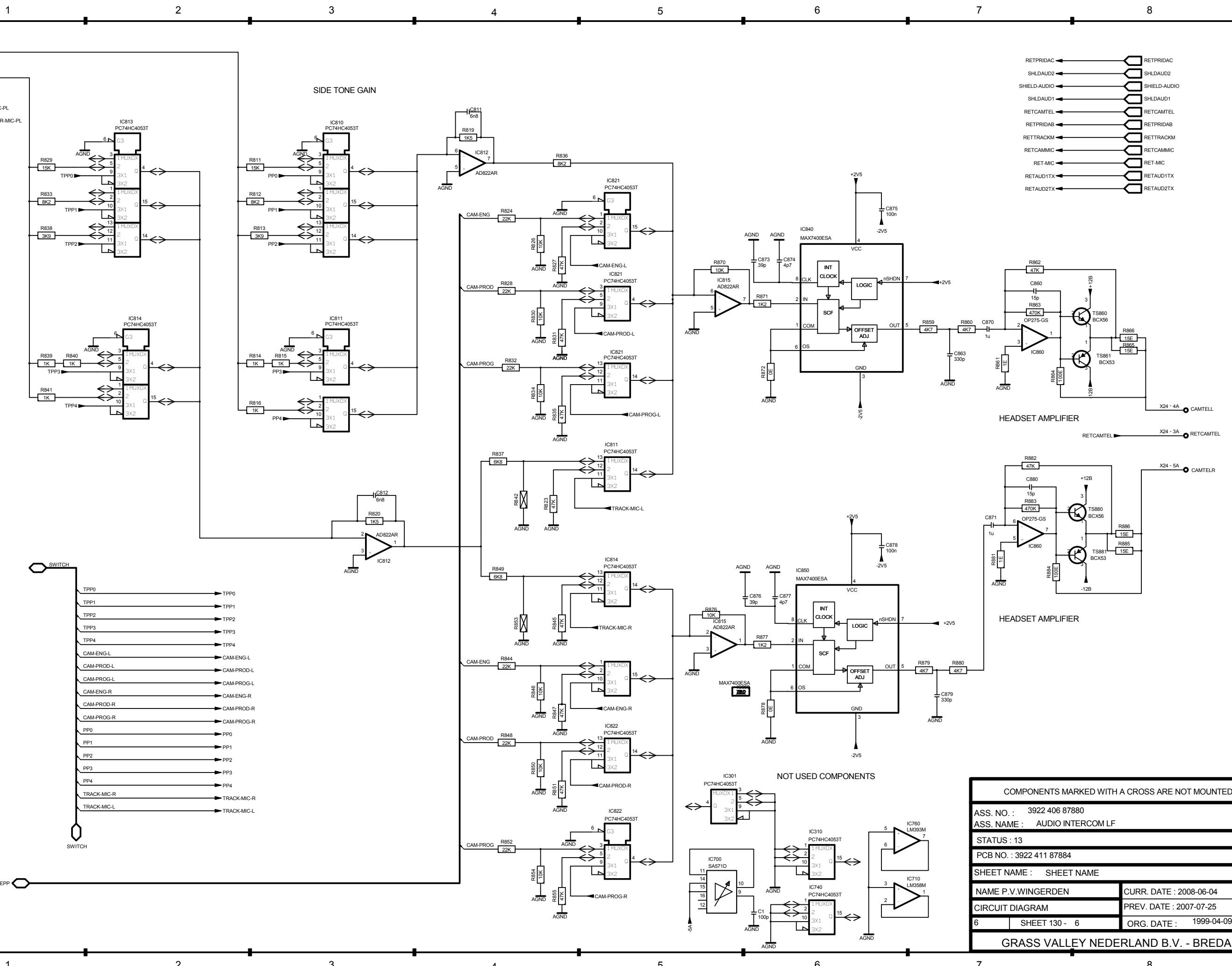
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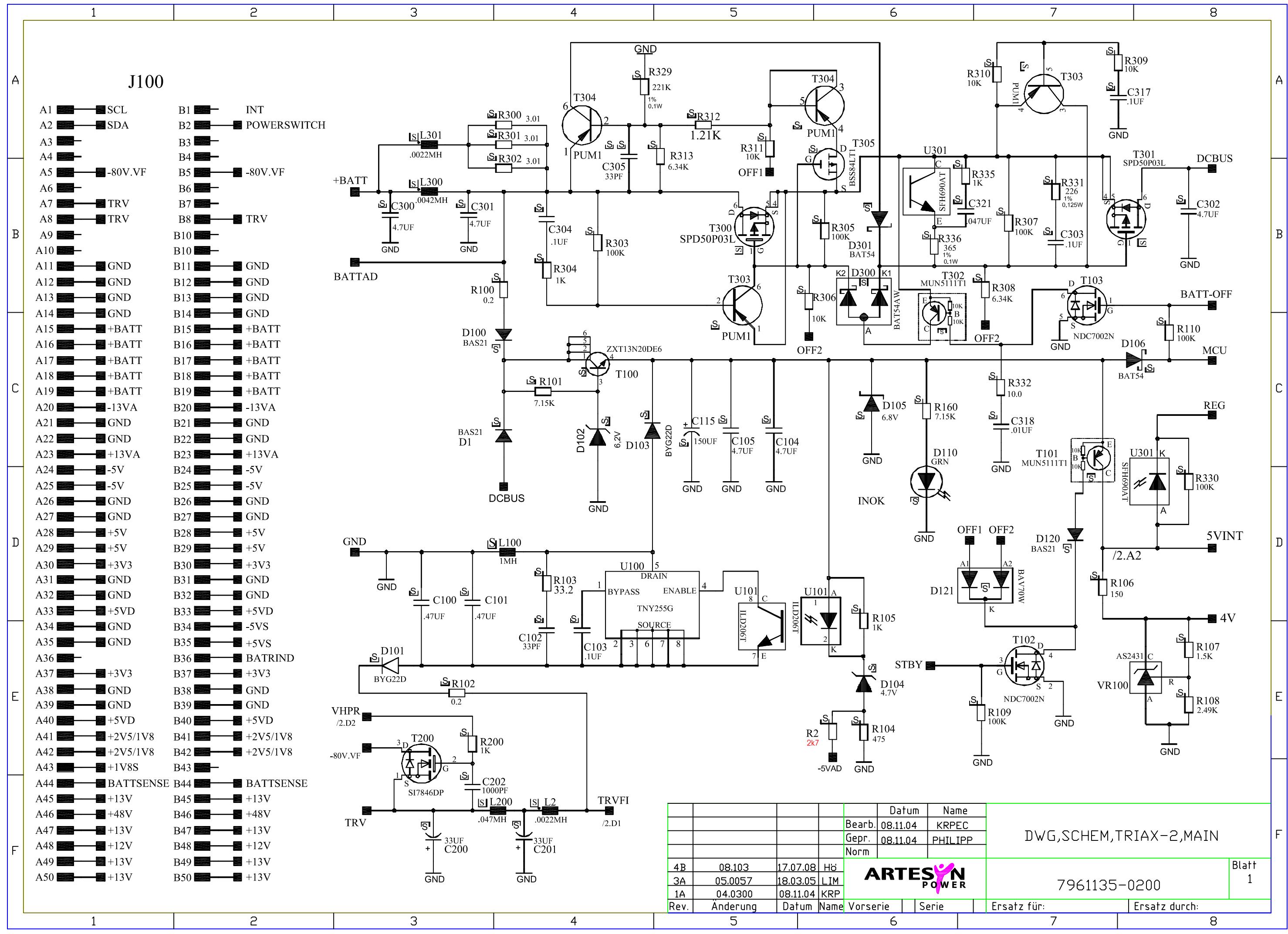
COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED	
ASS. NO. :	3922 406 87880
ASS. NAME :	AUDIO INTERCOM LF
STATUS :	13
PCB NO. :	3922 411 87884
SHEET NAME :	SHEET NAME
NAME P.V.WINGERDEN	CURR. DATE : 2008-06-04
CIRCUIT DIAGRAM	PREV. DATE : 2007-07-25
6	SHEET 130 - 6
	ORG. DATE : 1999-04-09
GRASS VALLEY NEDERLAND B.V. - BREDA	

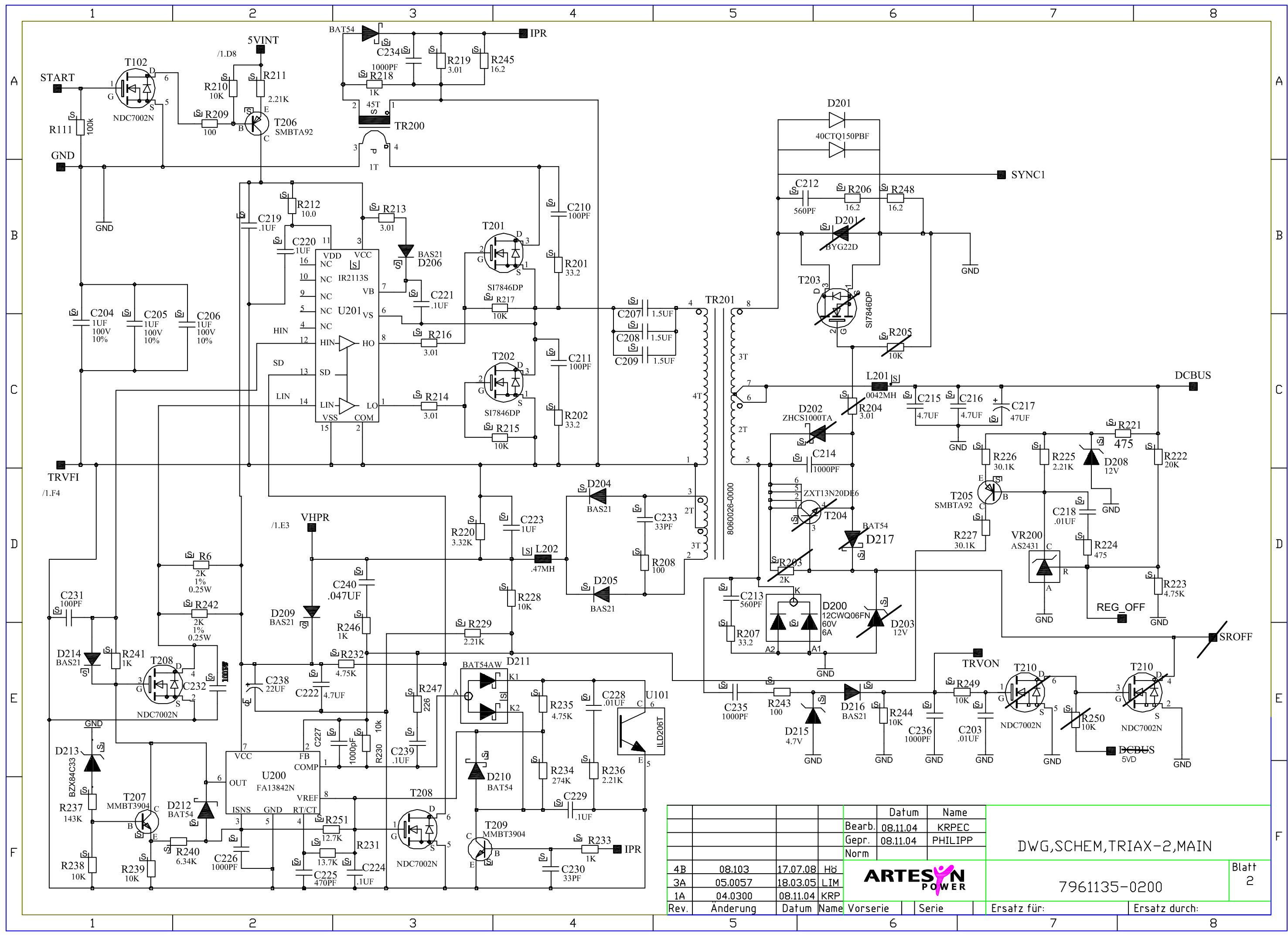


3922 406 87881;32 AUDIO INTERCOM LF

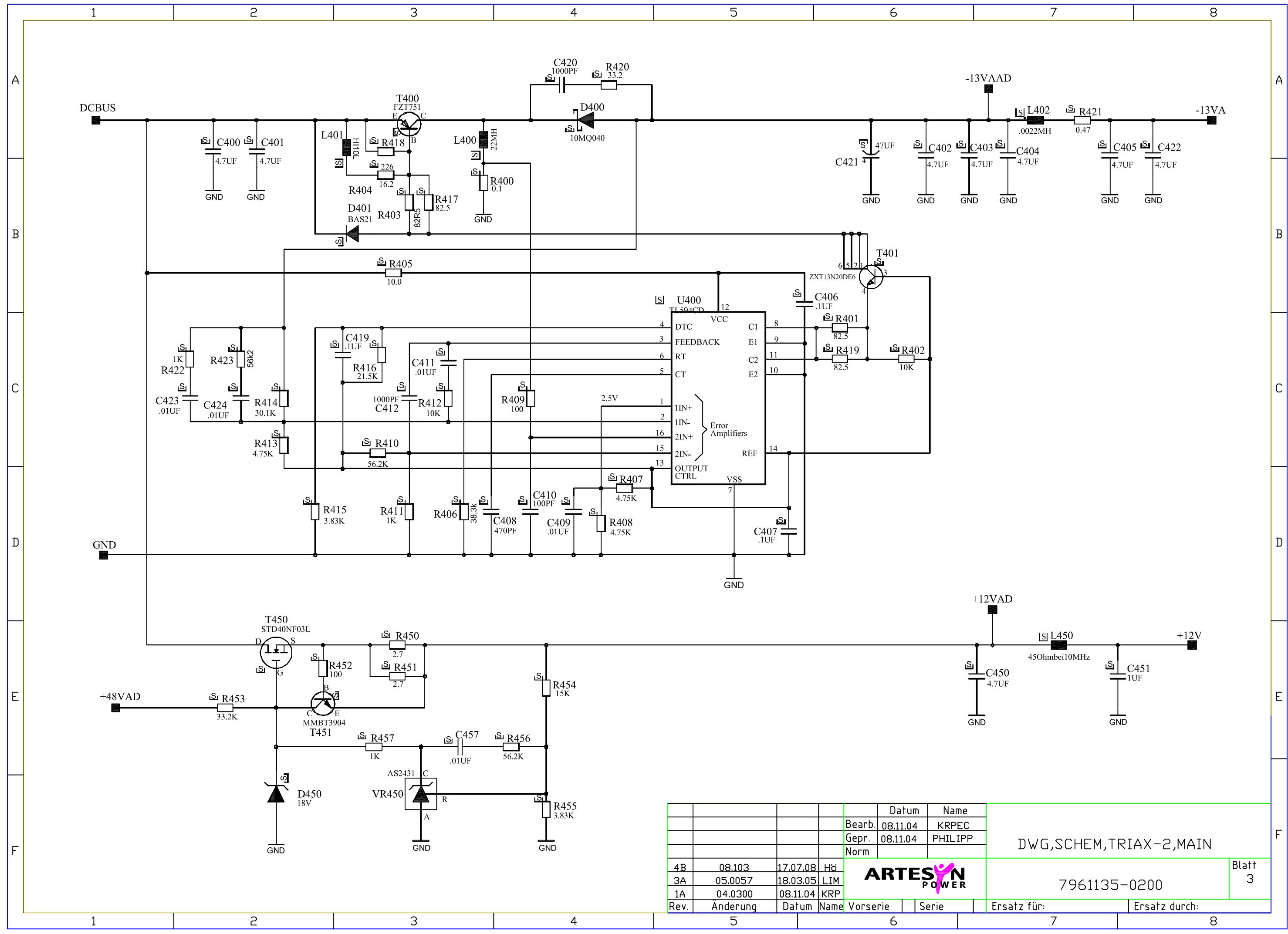
Ref	Description	Part 12nc	Service part
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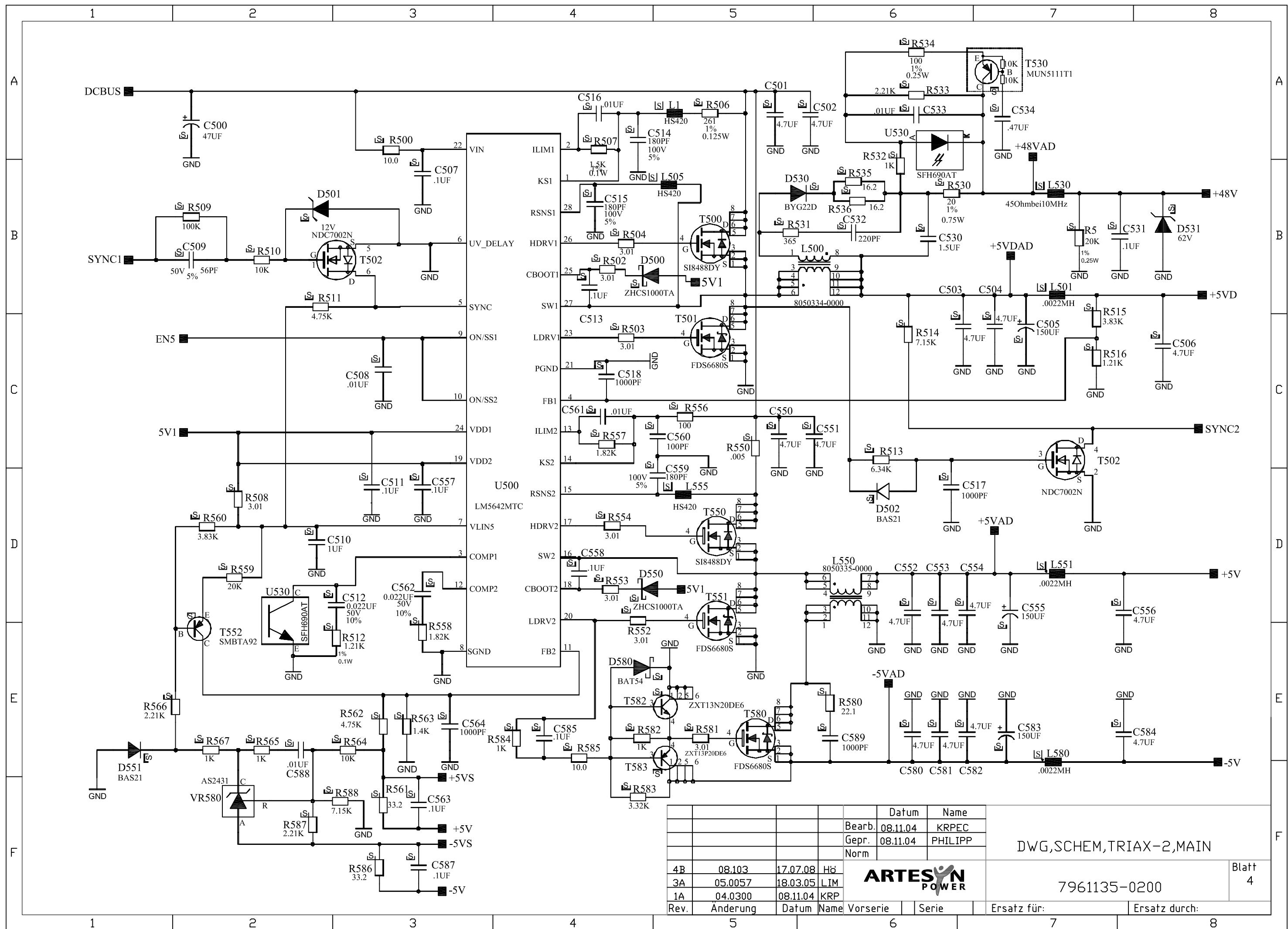
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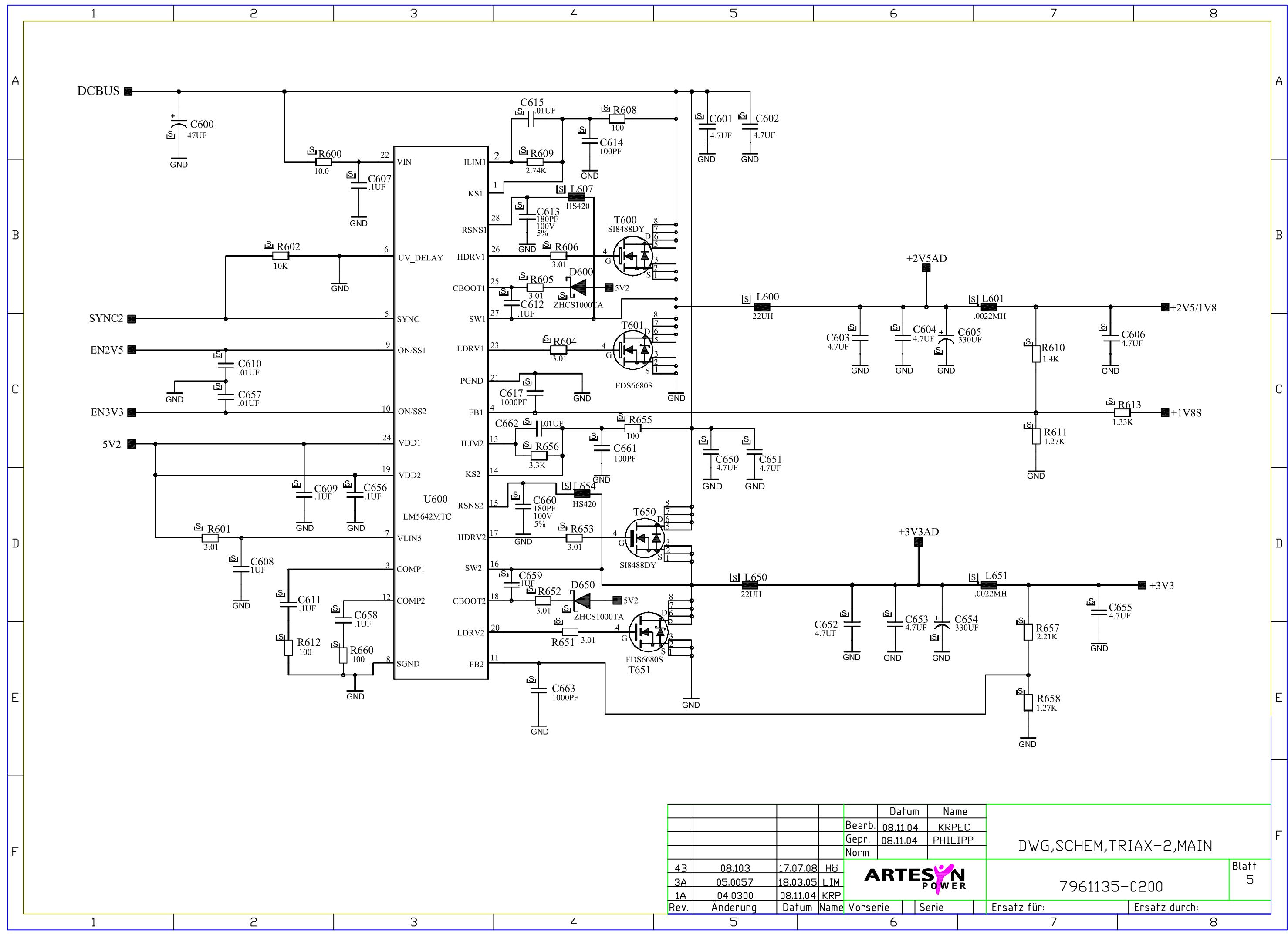


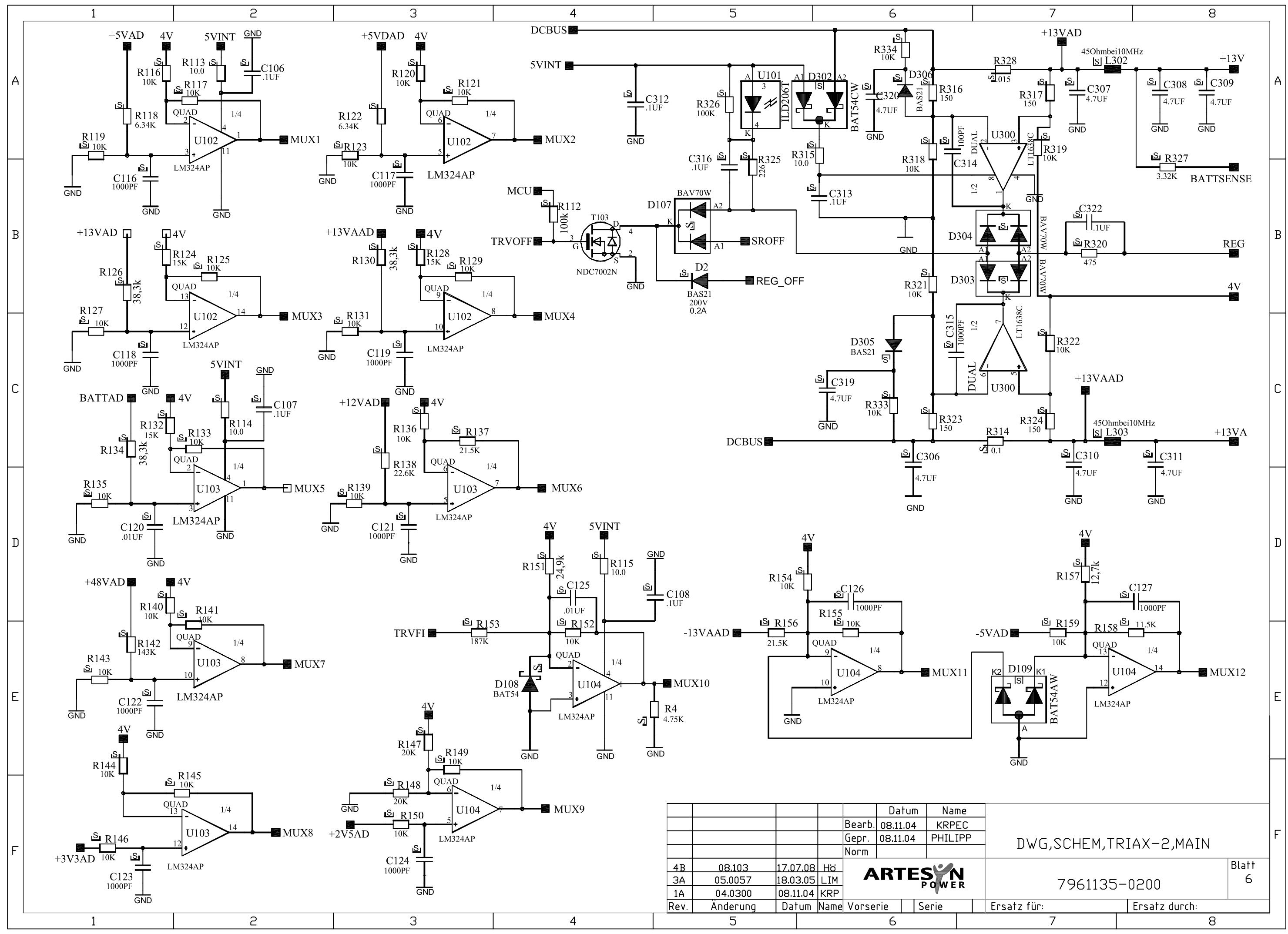


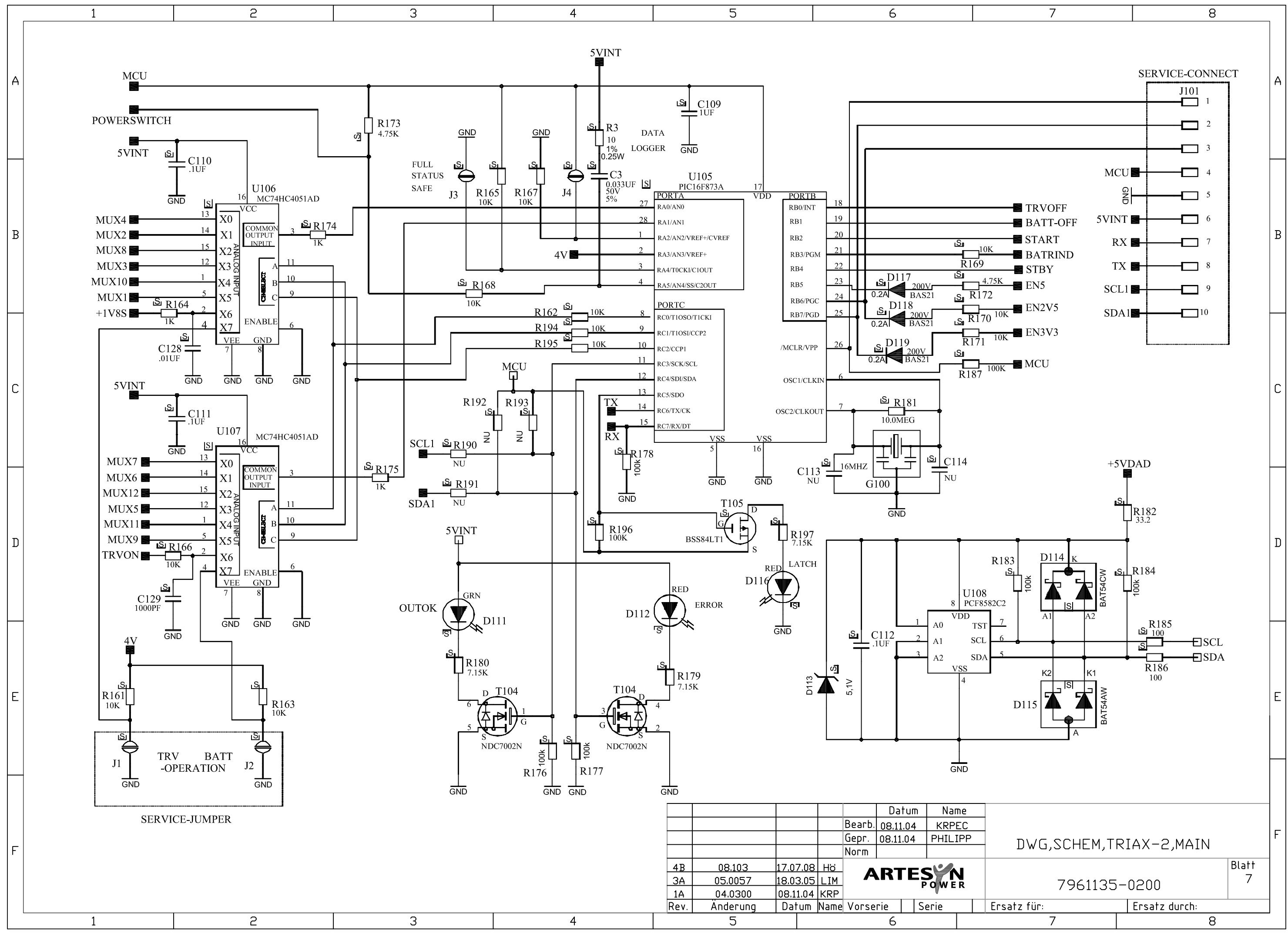
Rev.	Aenderung	Datum	Name	Vorserie	Serie	Ersatz für:	Ersatz durch:
4B	08.103	17.07.08	Hö				
3A	05.0057	18.03.05	LIM				
1A	04.0300	08.11.04	KRP				

ARTESYN
POWER

DWG,SCHEM,TRIAX-2,MAIN
7961135-0200
Blatt 4



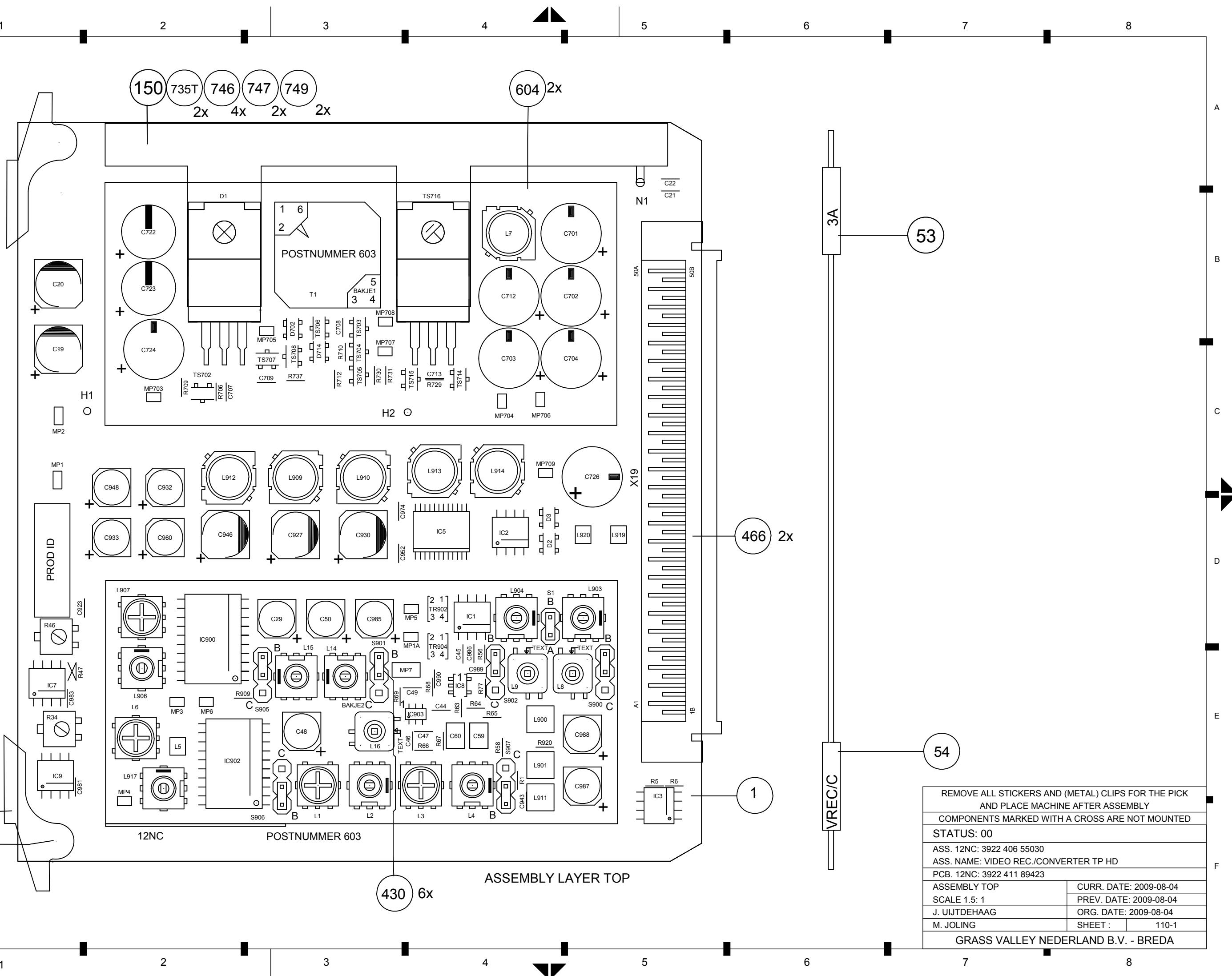
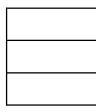




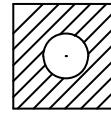
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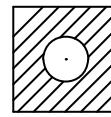
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A horizontal line with 8 numbered positions from 1 to 8. Black bars are present at positions 1, 3, 5, 6, and 7.

A

1

B

1

C

1

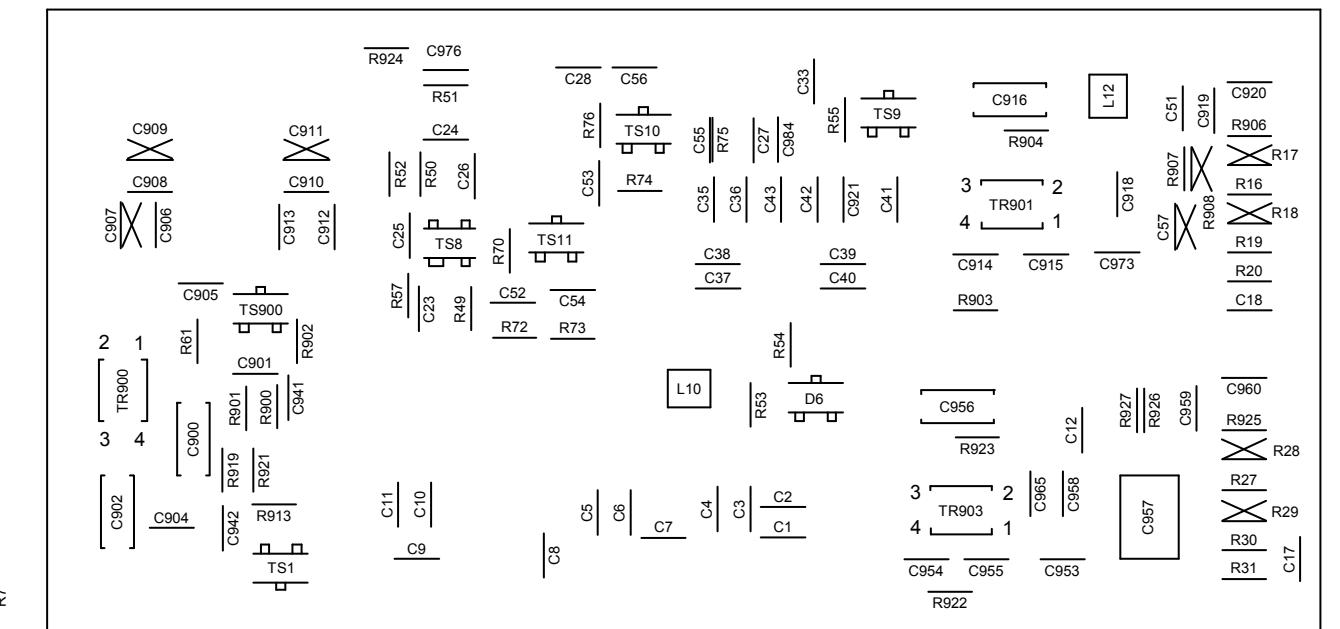
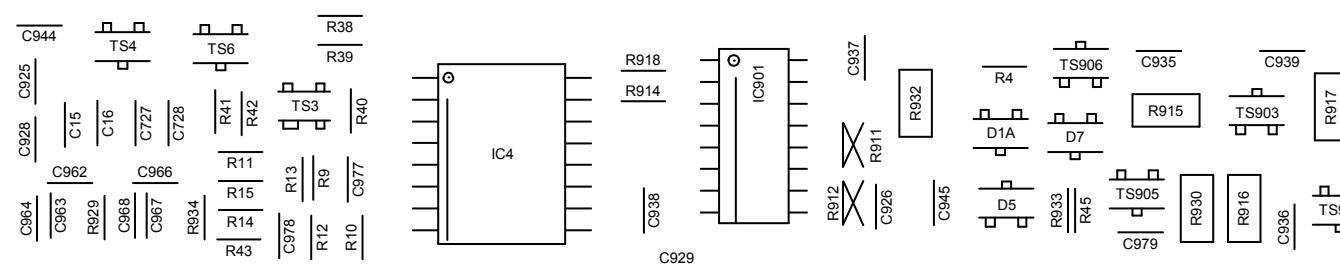
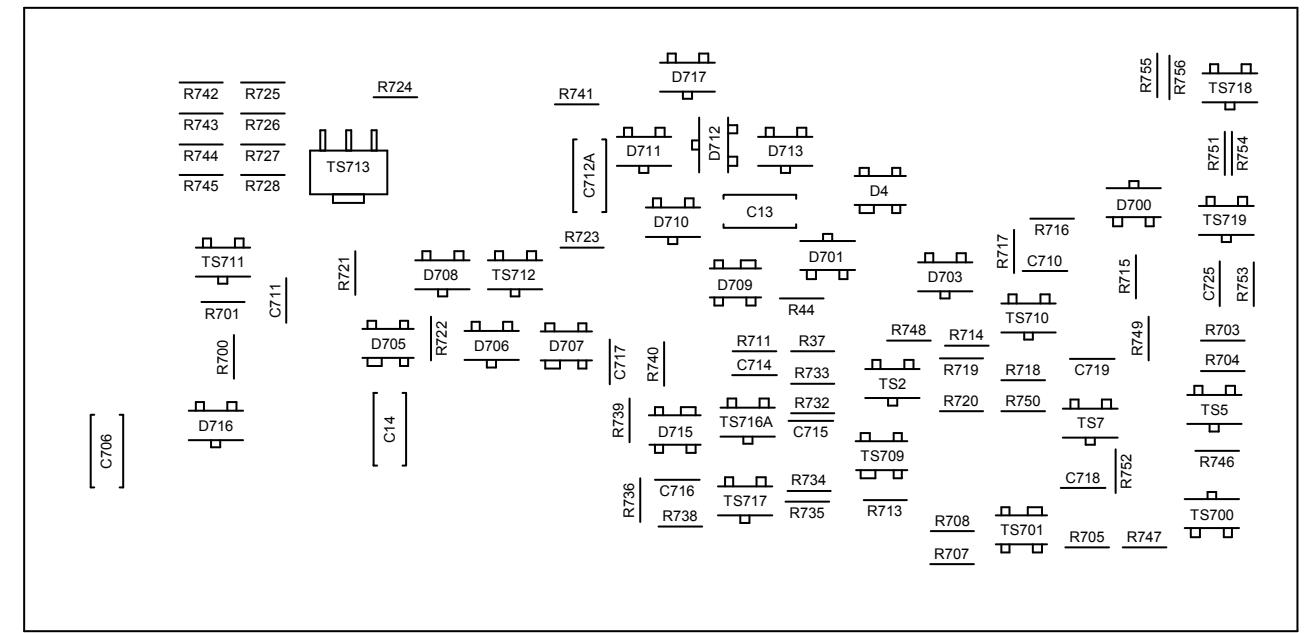
1

E

1

F

1



L11 and L17 must be hand soldered after wave soldering

ASSEMBLY LAYER BOTTOM

**REMOVE ALL STICKERS AND (METAL) CLIPS FOR THE PICK
AND PLACE MACHINE AFTER ASSEMBLY**

COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED

STATUS: 00

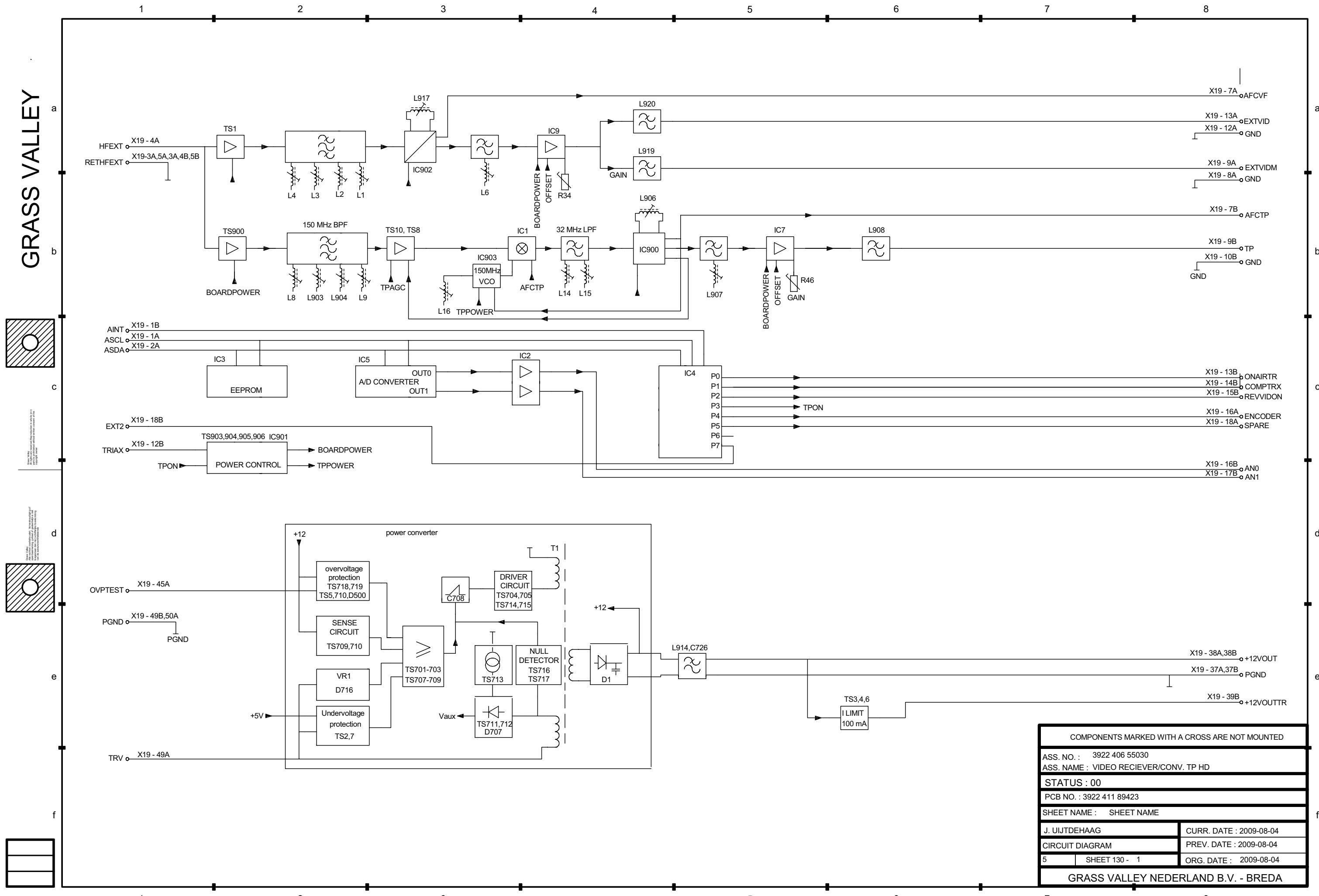
ASS. NAME: VIDEO REC / CONVERTER TR HD

PCB. 12NC: 3922 411 89423

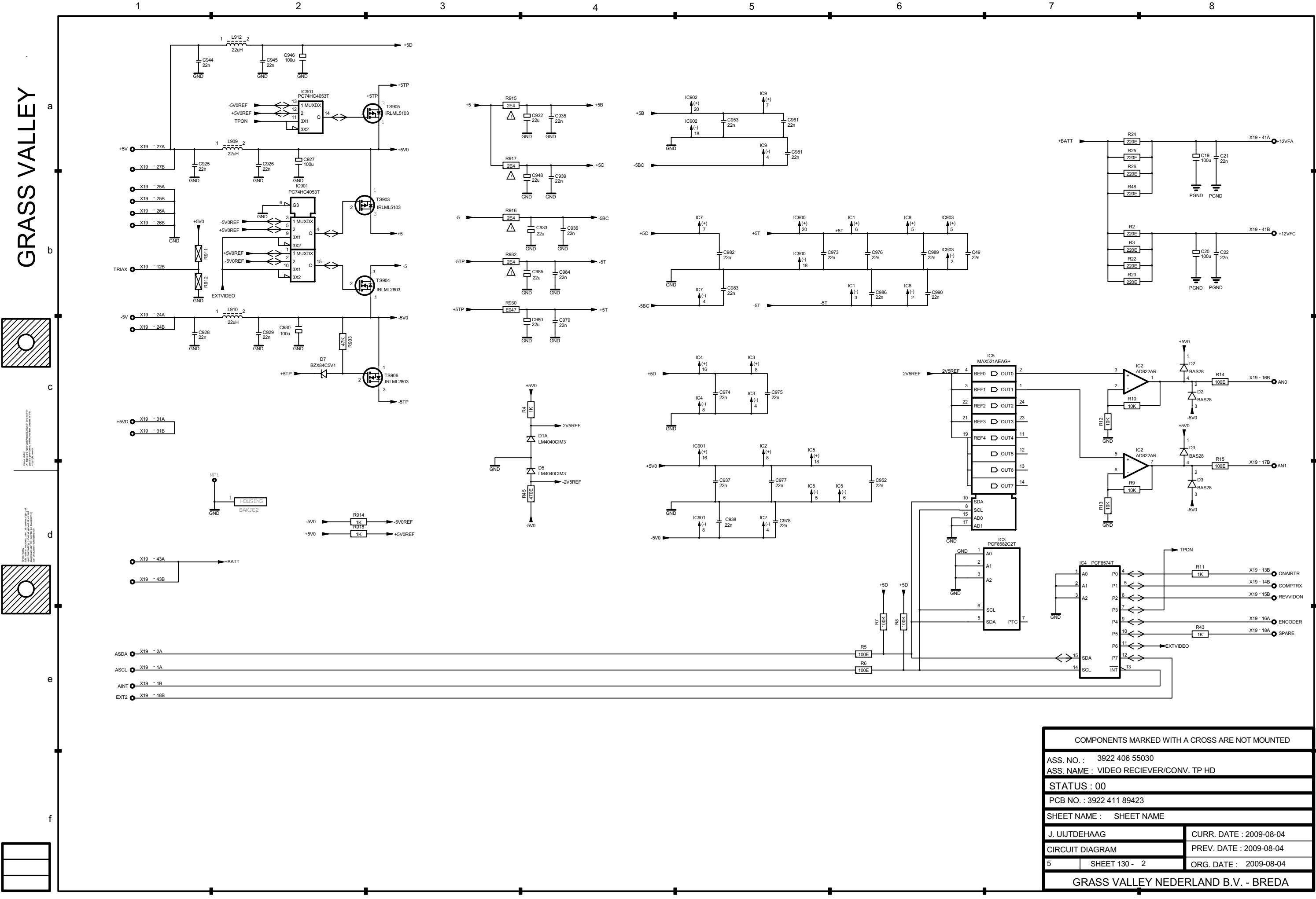
ASSEMBLY BOTTOM CURR. DATE: 2009-08-04

SCALE 1.5: 1 PREV. DATE: 2009-08-04

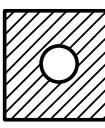
J. UIJTDEHAAG ORG. DATE: 2009-08-04
M. IOLING SHEET: 110-2



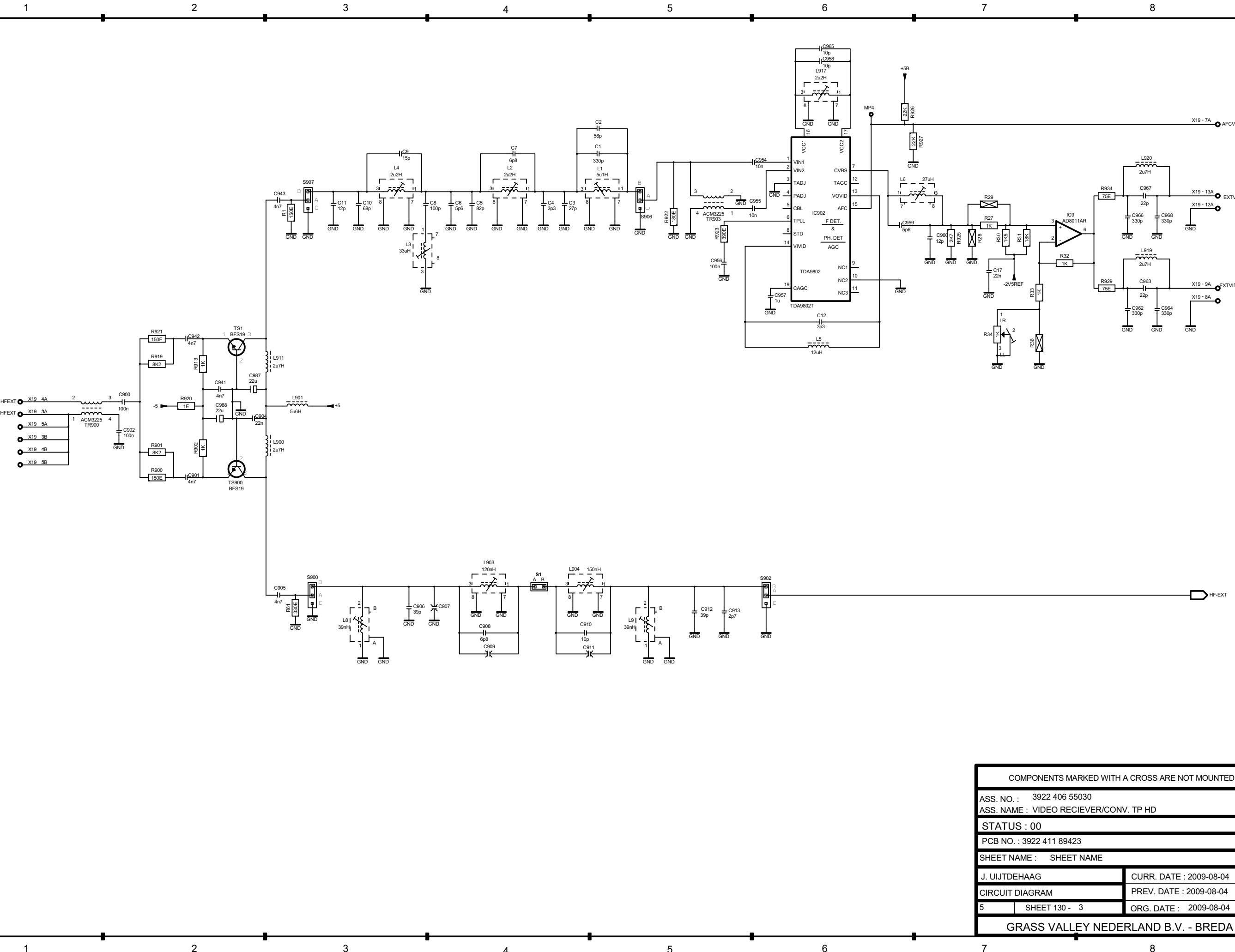
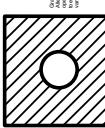
GRASS VALLEY



GRASS VALLEY



Components marked with a cross are not mounted



COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED

ASS. NO.: 3922 406 55030

ASS. NAME : VIDEO RECIEVER/CONV. TP HD

STATUS : 00

PCB NO.: 3922 411 89423

SHEET NAME : SHEET NAME

J. UIJTDENHAAG

CURR. DATE : 2009-08-04

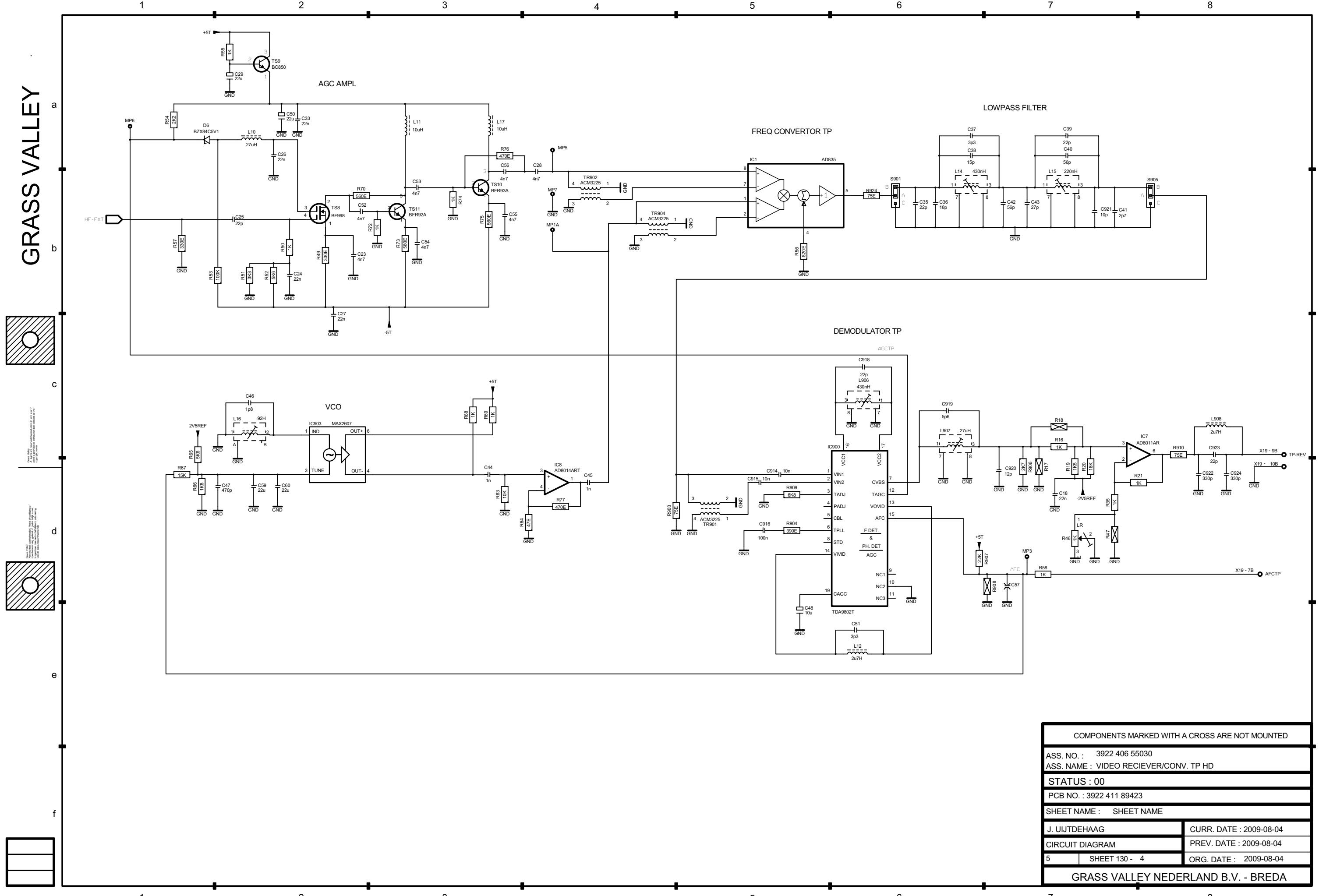
CIRCUIT DIAGRAM

PREV. DATE : 2009-08-04

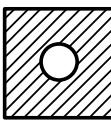
5 SHEET 130 - 3

ORG. DATE : 2009-08-04

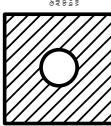
GRASS VALLEY NEDERLAND B.V. - BREDA



GRASS VALLEY



Components marked with a cross are not mounted



1 2 3 4 5 6 7 8

X19 - 45A → OVPTEST

X19 - 50A

X19 - 49B

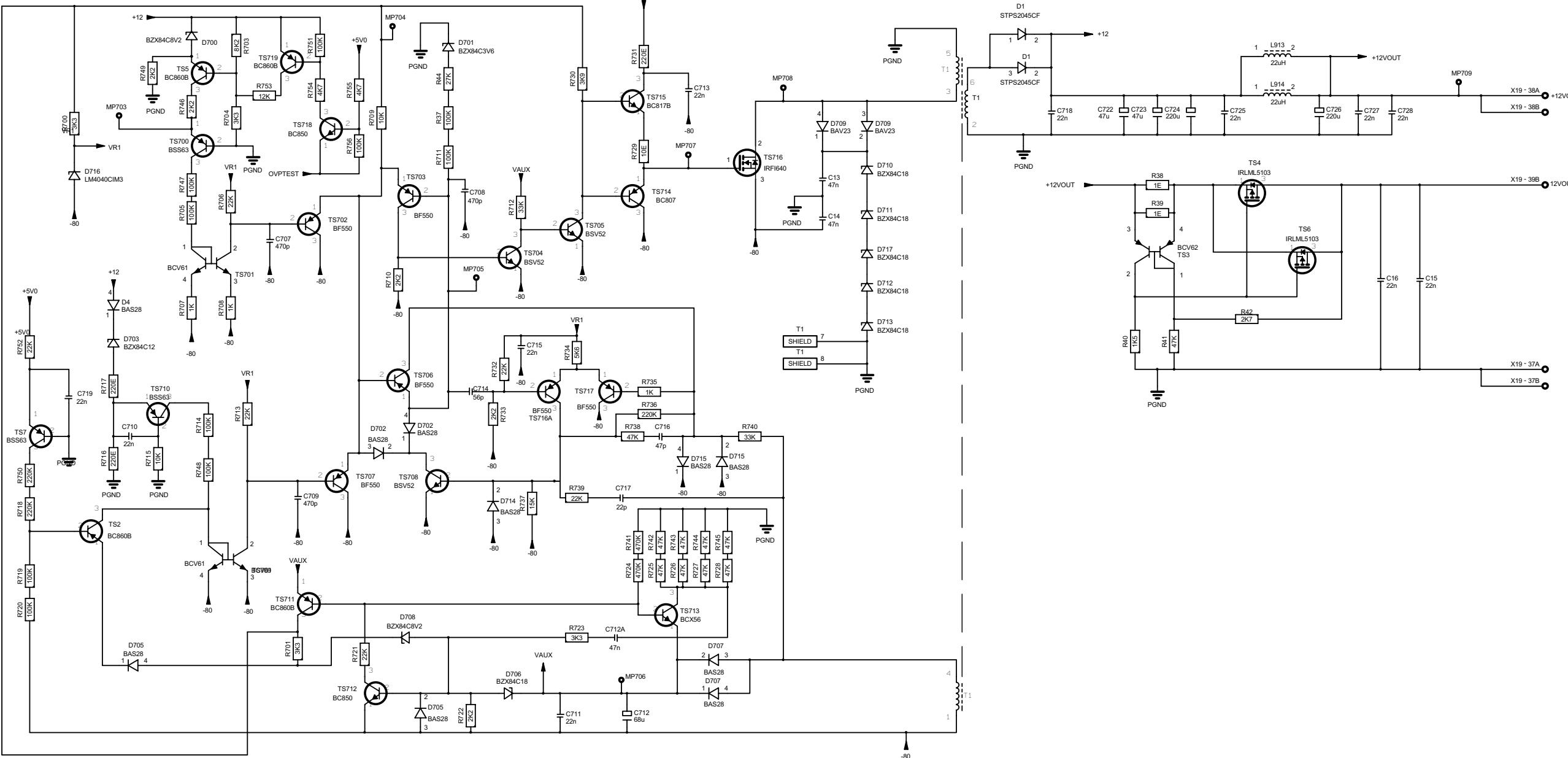
X19 - 49A

22uH

22uH

MP2
H2
H1
N1
BAKJE1
HOUSING
PGND

POWER CONVERTOR 12V



COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED

ASS. NO.: 3922 406 55030
ASS. NAME : VIDEO RECIEVER/CONV. TP HD

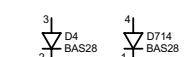
STATUS : 00

PCB NO.: 3922 411 89423

SHEET NAME : SHEET NAME

J. UIJDEHAAG	CURR. DATE : 2009-08-04
CIRCUIT DIAGRAM	PREV. DATE : 2009-08-04
5	SHEET 130 - 5
	ORG. DATE : 2009-08-04

GRASS VALLEY NEDERLAND B.V. - BREDA



1 2 3 4 5 6 7 8



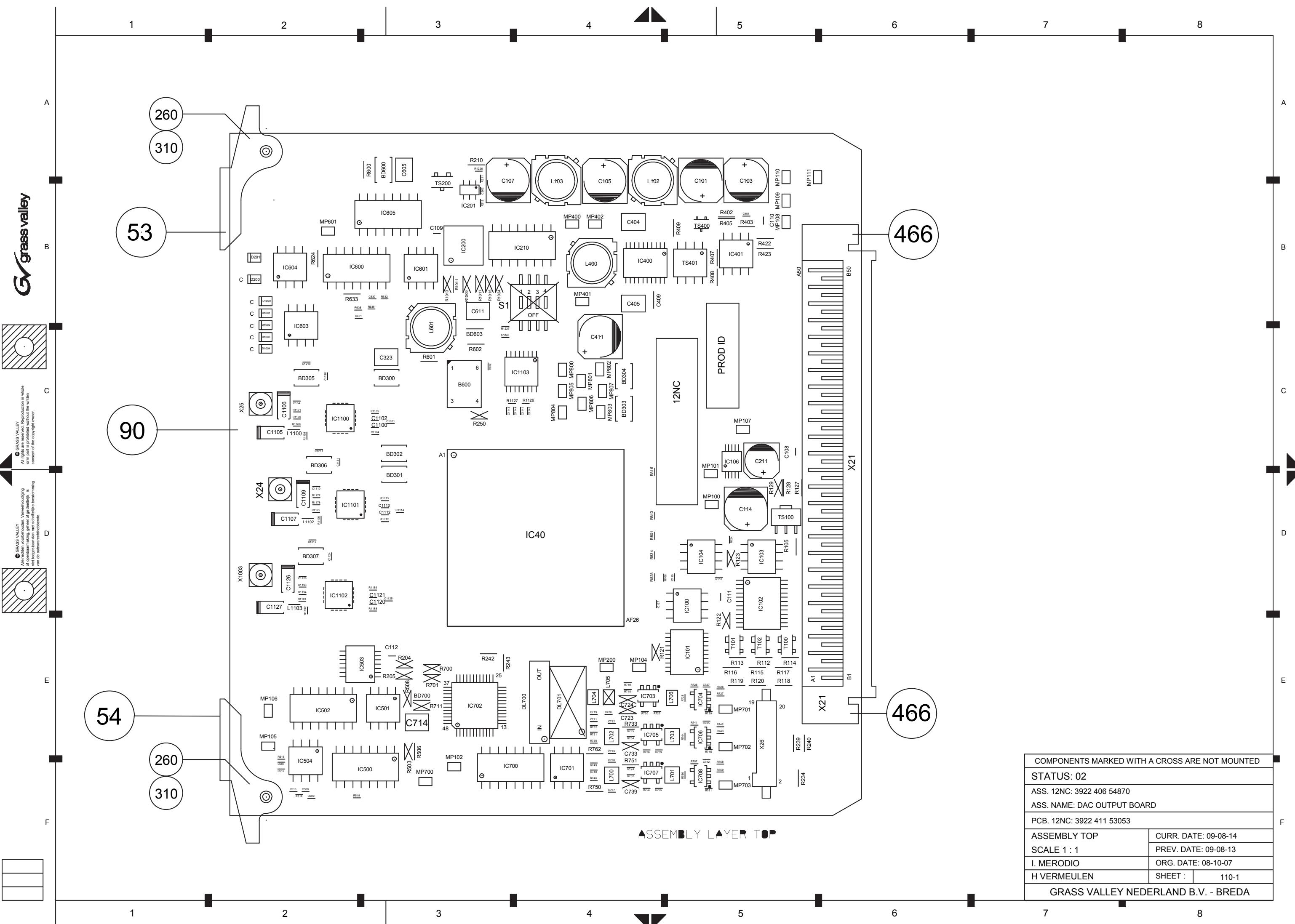
3922 406 55031;2 VIDEO REC./CONVERTER TP HD

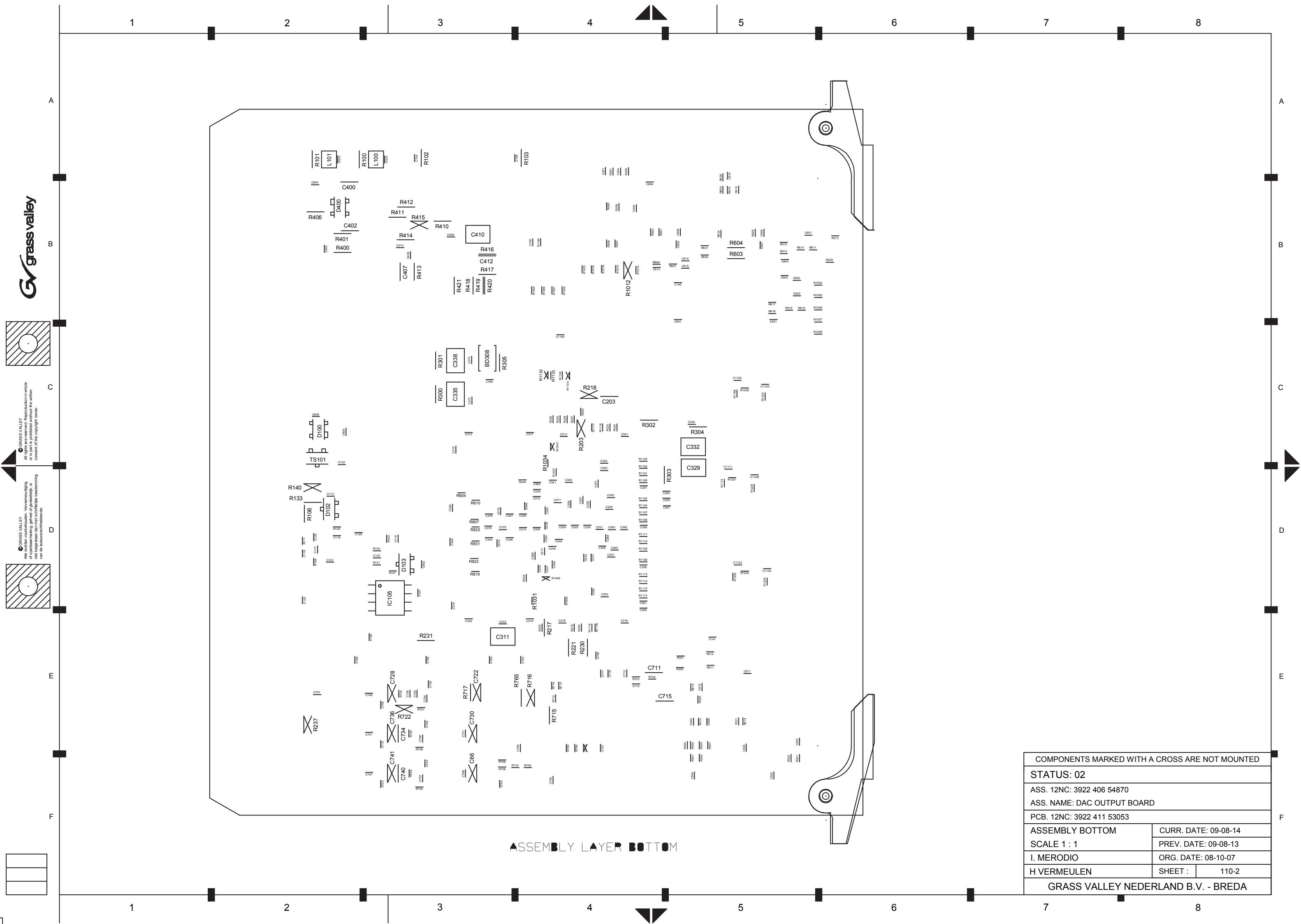
Ref	Description	Part 12nc	Service part
	No sparecomponents available		

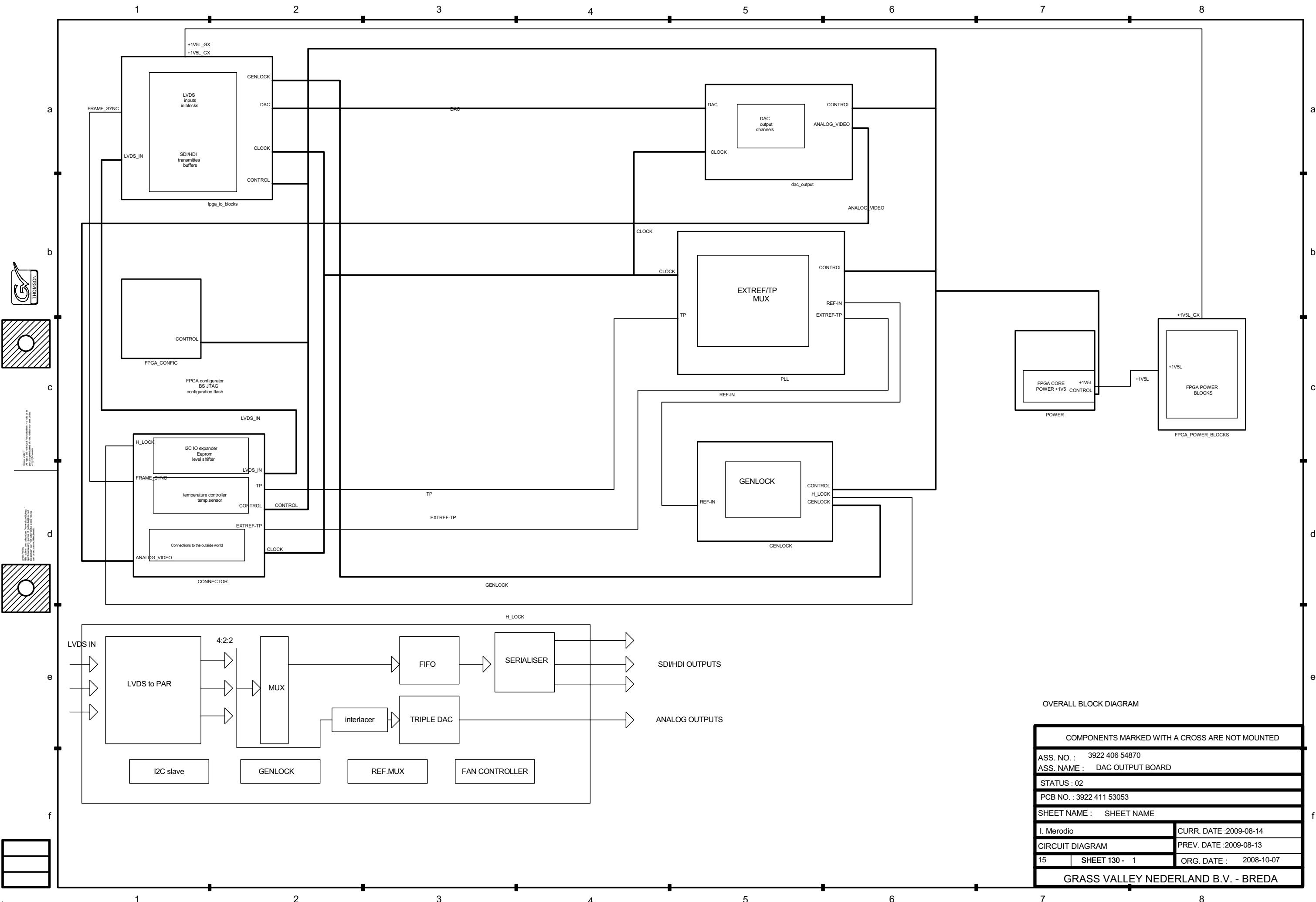


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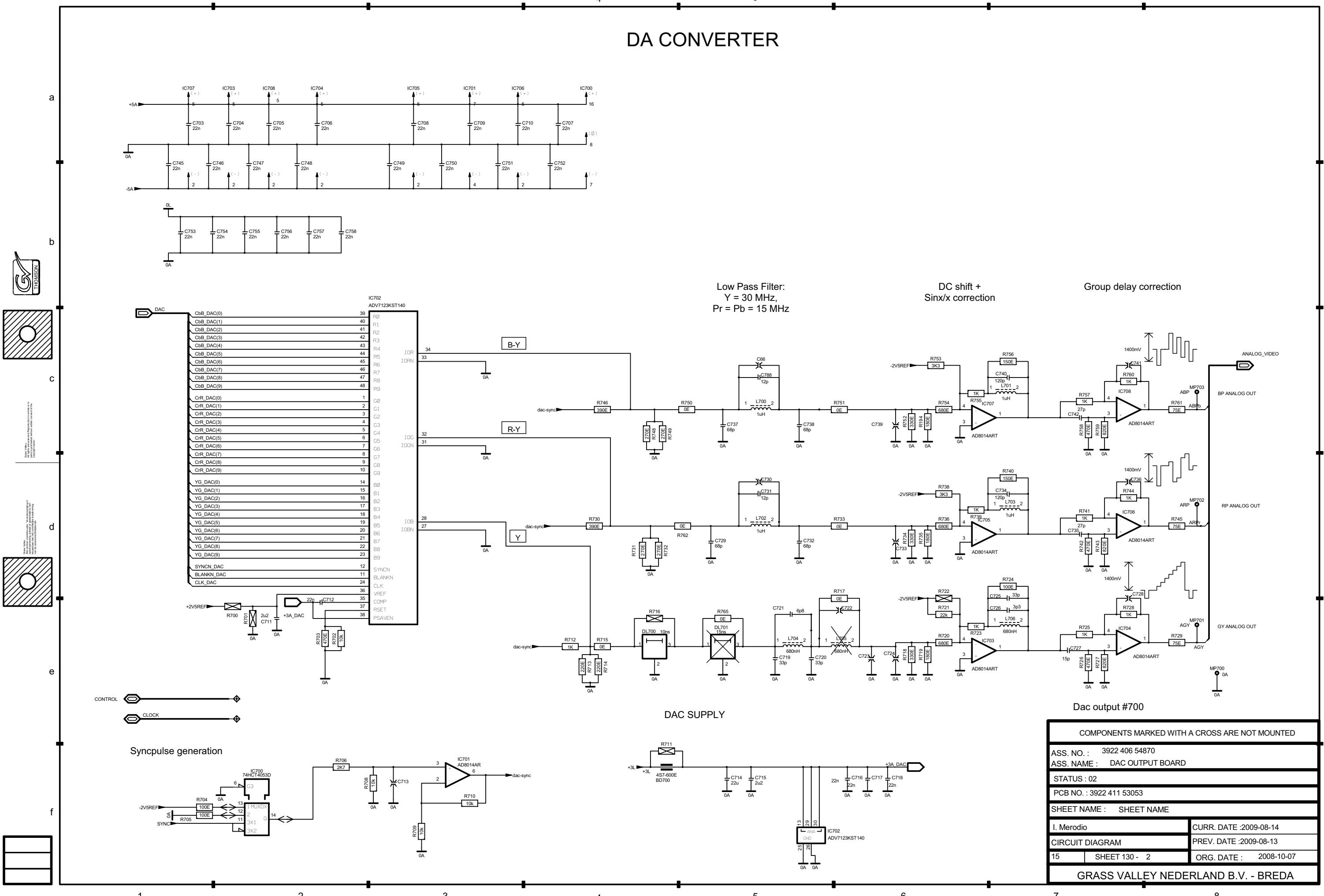
GRASS VALLEY
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of openbare uitmaking, geheel of gedeeltelijk, is
niet toegestaan dan niet rechtmatige bestemming
van de auteur rechtbehoudende.





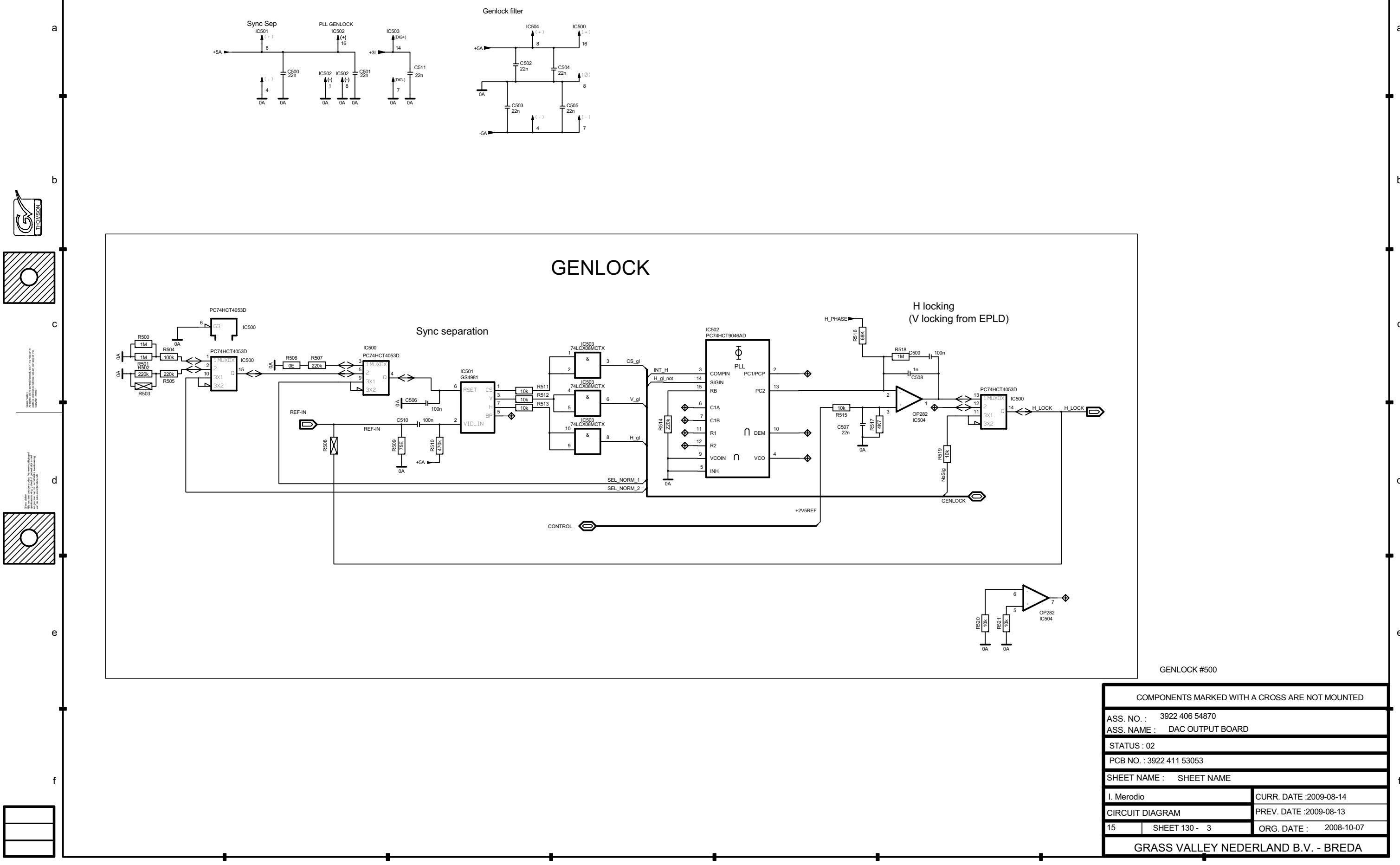


DA CONVERTER



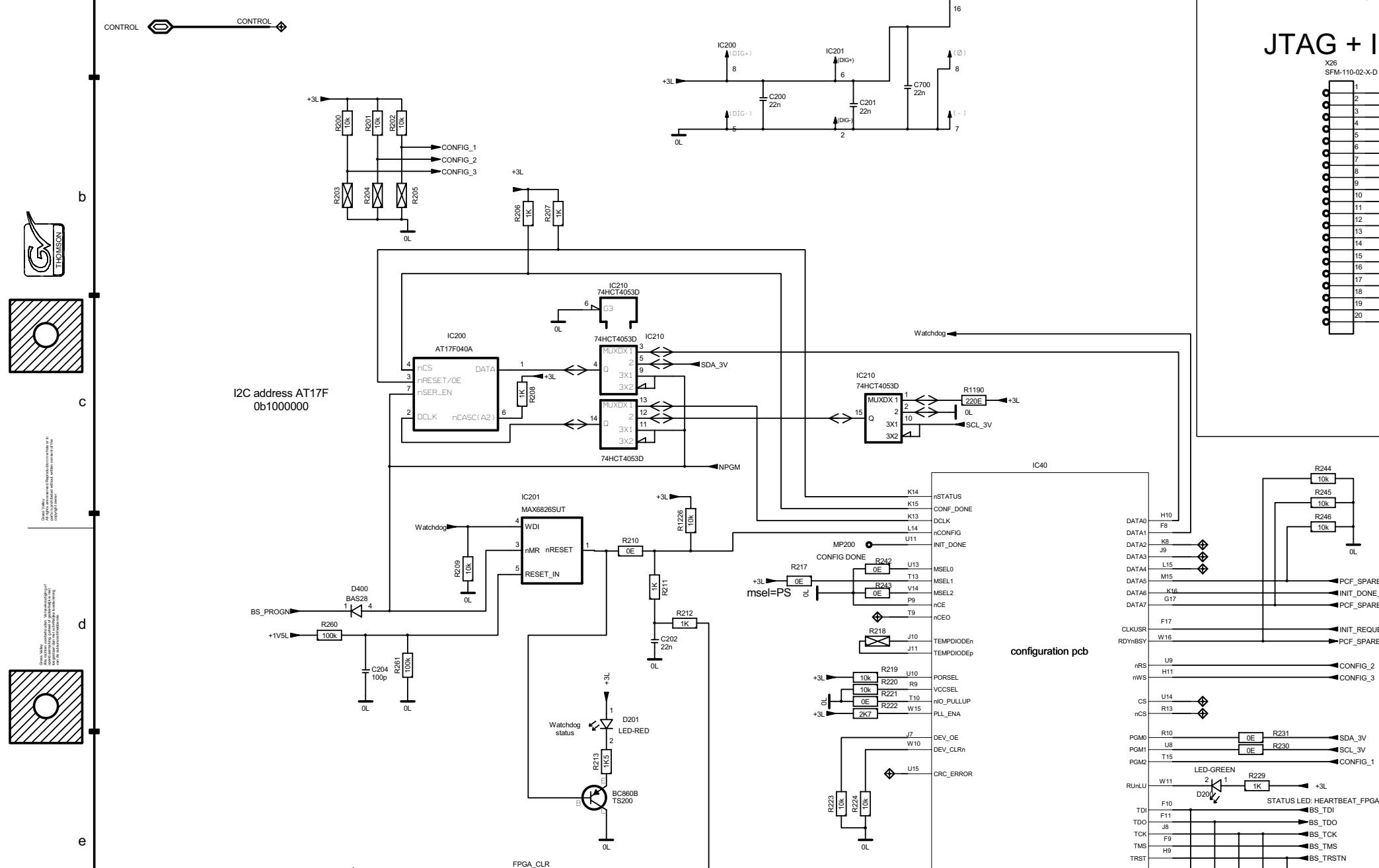
1 2 3 4 5 6 7 8

GENLOCK



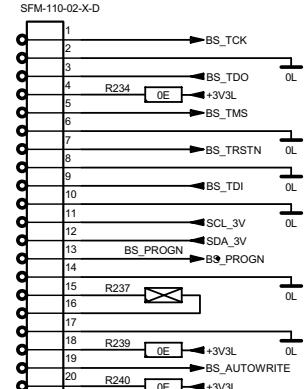
1 2 3 4 5 6 7 8

FPGA configuration



JTAG BUS STD 20 PIN GV

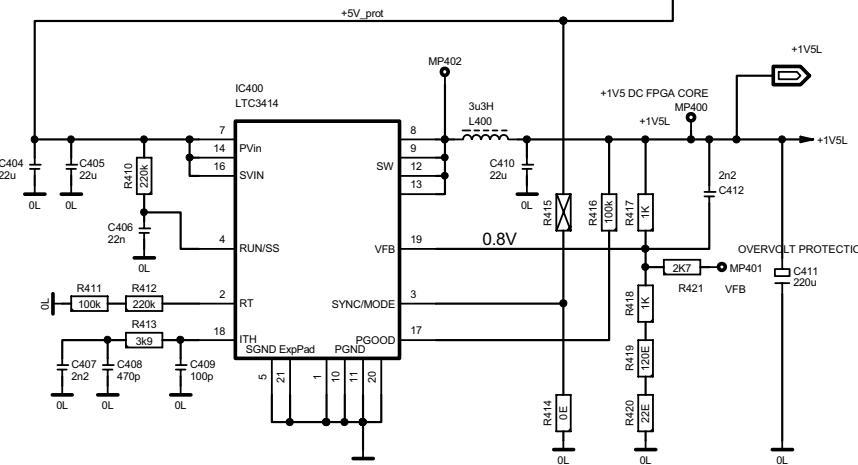
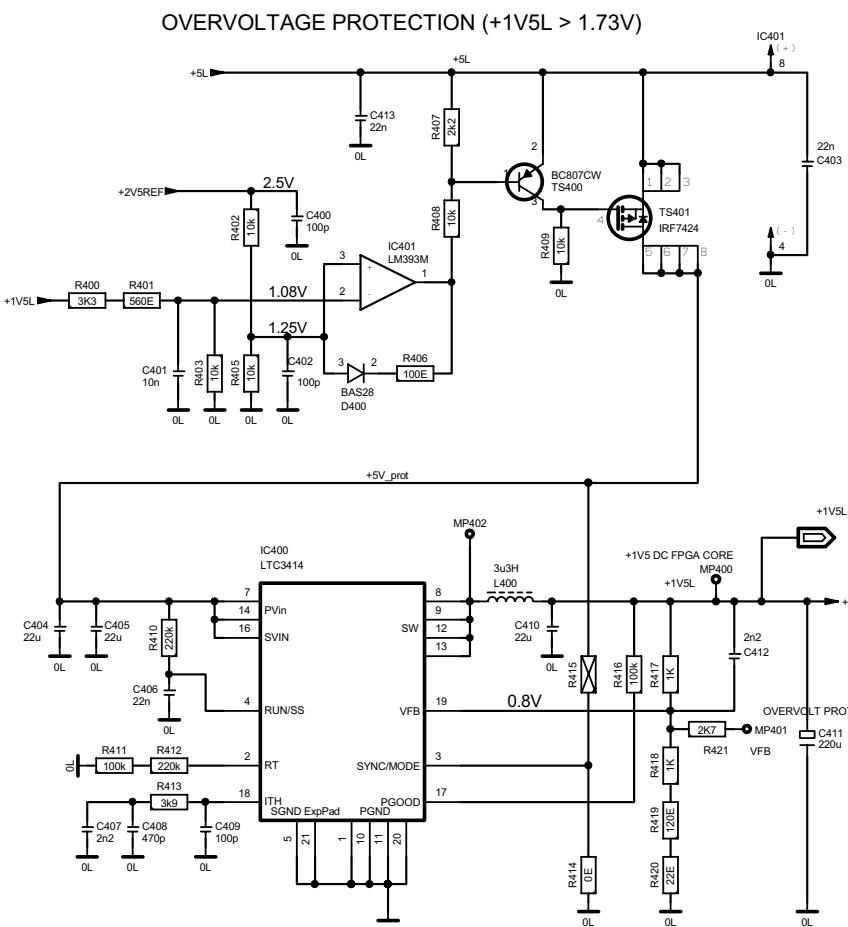
JTAG + IIC



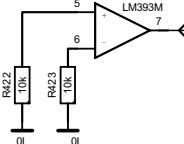
FPGA configuration #200

COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED	
ASS. NO. :	3922 406 54870
ASS. NAME :	DAC OUTPUT BOARD
STATUS :	02
PCB NO. :	3922 411 53053
SHEET NAME :	SHEET NAME
I. Merodio	CURR. DATE : 2009-08-14
CIRCUIT DIAGRAM	PREV. DATE : 2009-08-13
15	SHEET 130 - 4
ORG. DATE :	2008-10-07
GRASS VALLEY NEDERLAND B.V. - BREDA	

POWER STRATIX GX



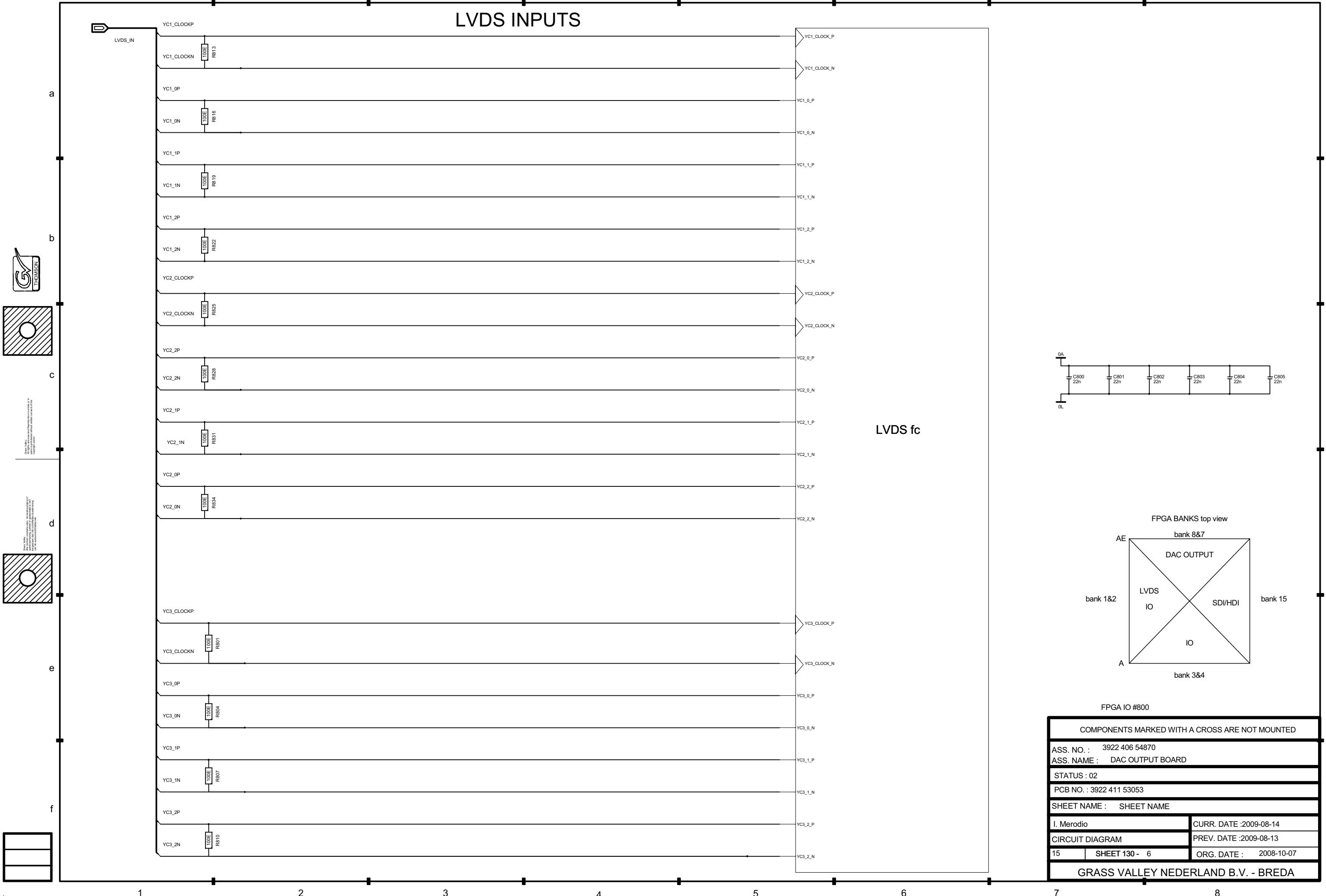
CONTROL → CONTROL



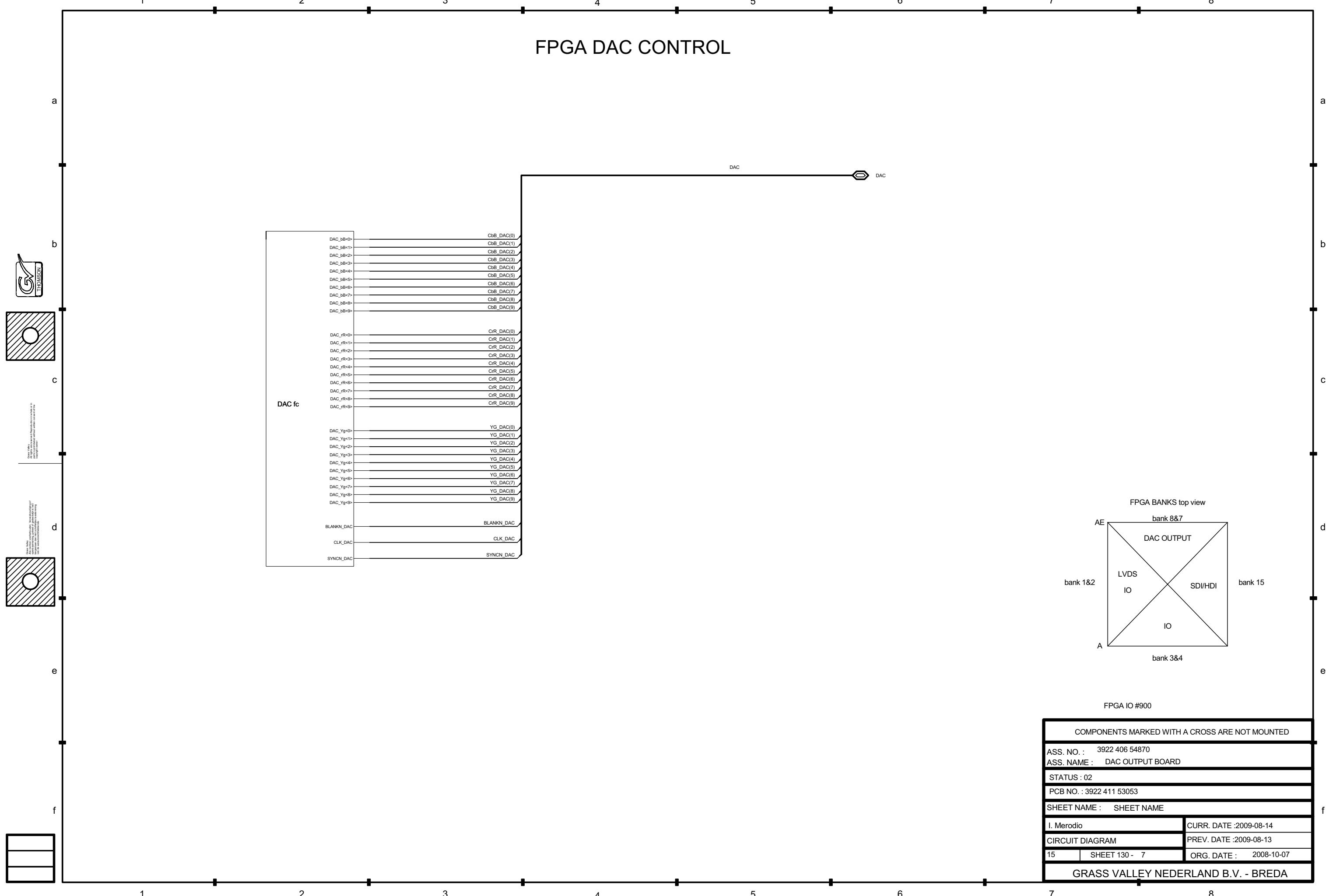
FPGA CORE POWER #400

COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED	
ASS. NO. :	3922 406 54870
ASS. NAME :	DAC OUTPUT BOARD
STATUS :	02
PCB NO. :	3922 411 53053
SHEET NAME :	SHEET NAME
I. Merodio	CURR. DATE : 2009-08-14
CIRCUIT DIAGRAM	PREV. DATE : 2009-08-13
15	SHEET 130 - 5
	ORG. DATE : 2008-10-07
GRASS VALLEY NEDERLAND B.V. - BREDA	

LVDS INPUTS

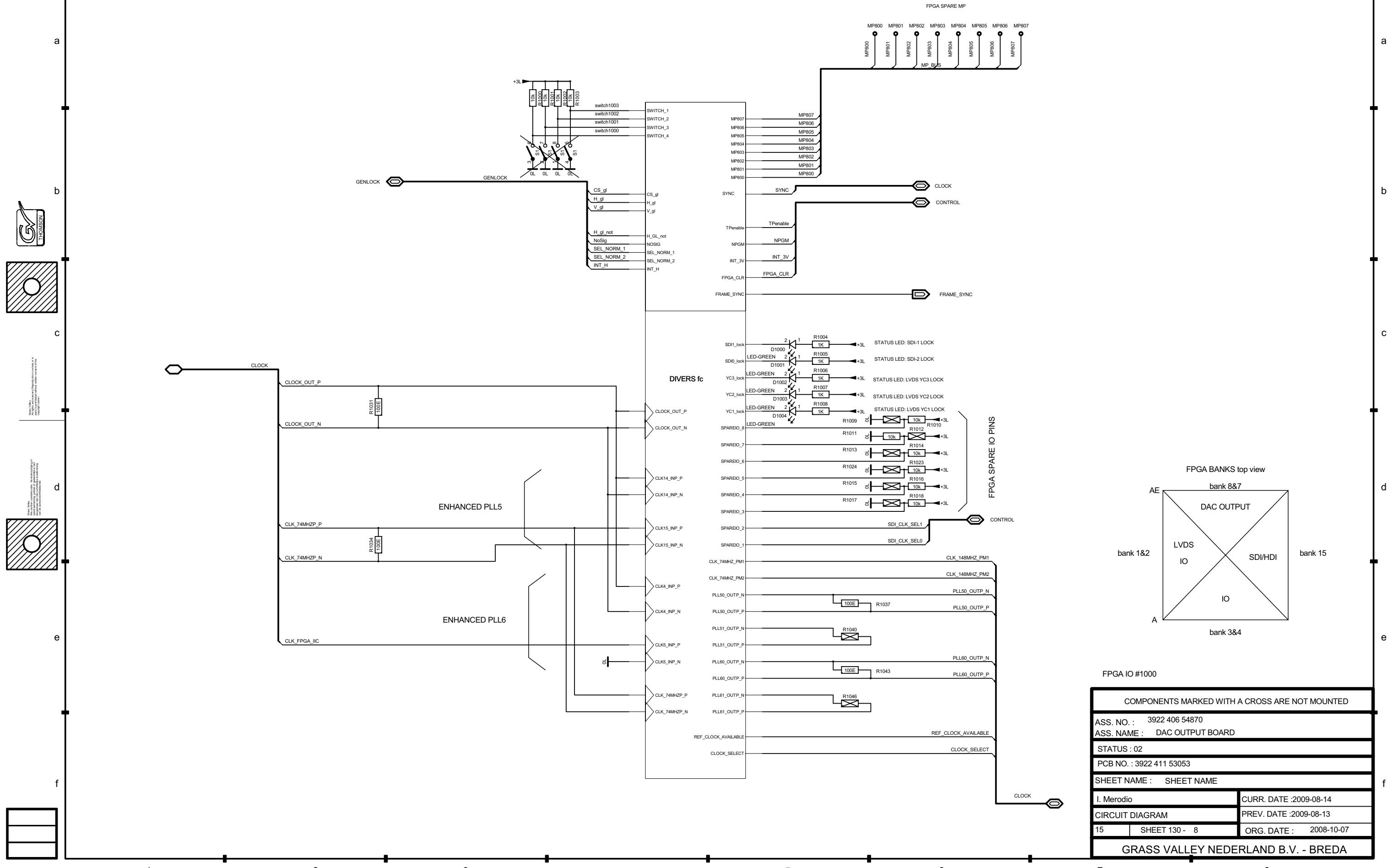


FPGA DAC CONTROL

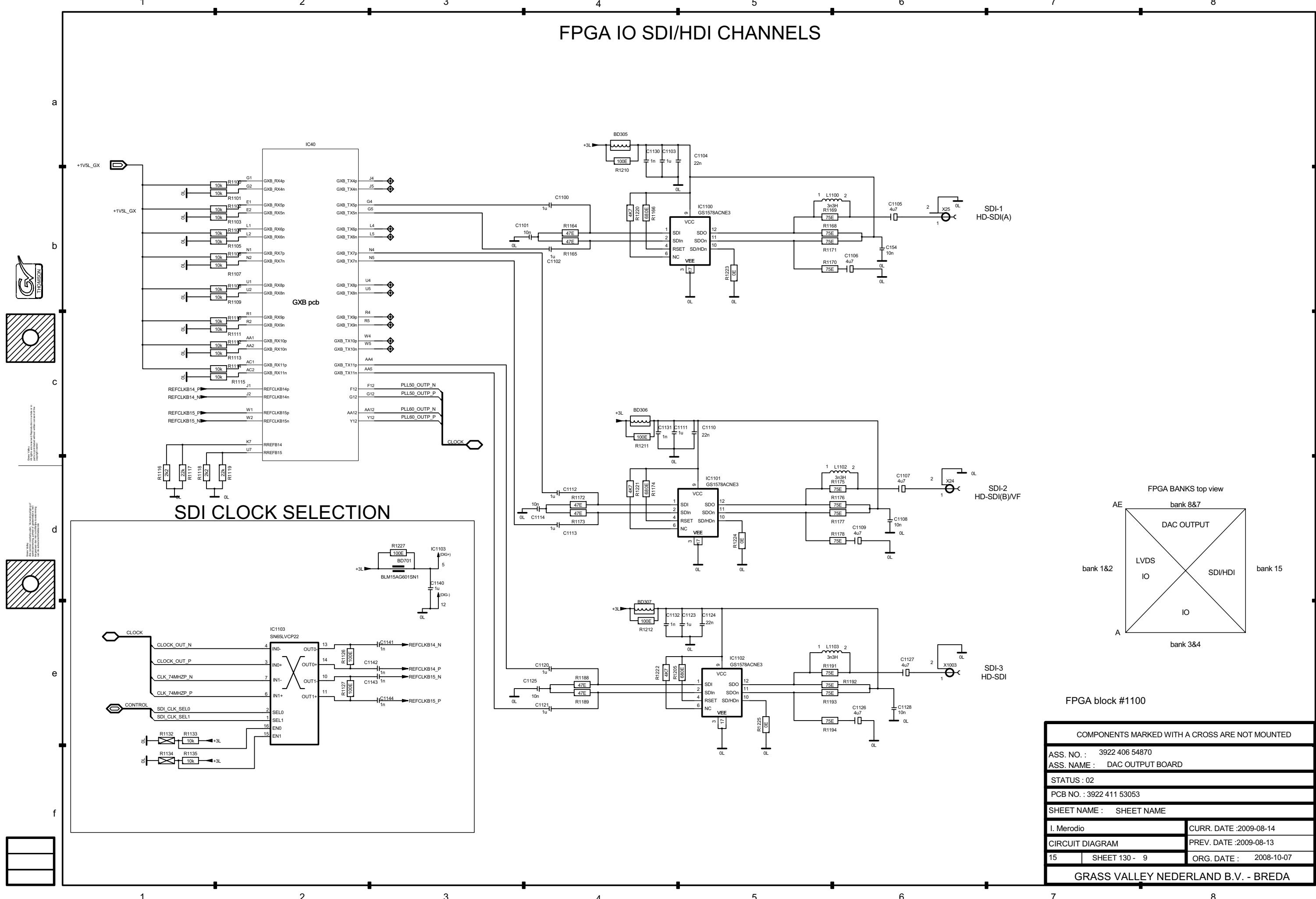


1 2 3 4 5 6 7 8

FPGA IO BANKS FOR GENLOCK, CLOCKS and DIVERS

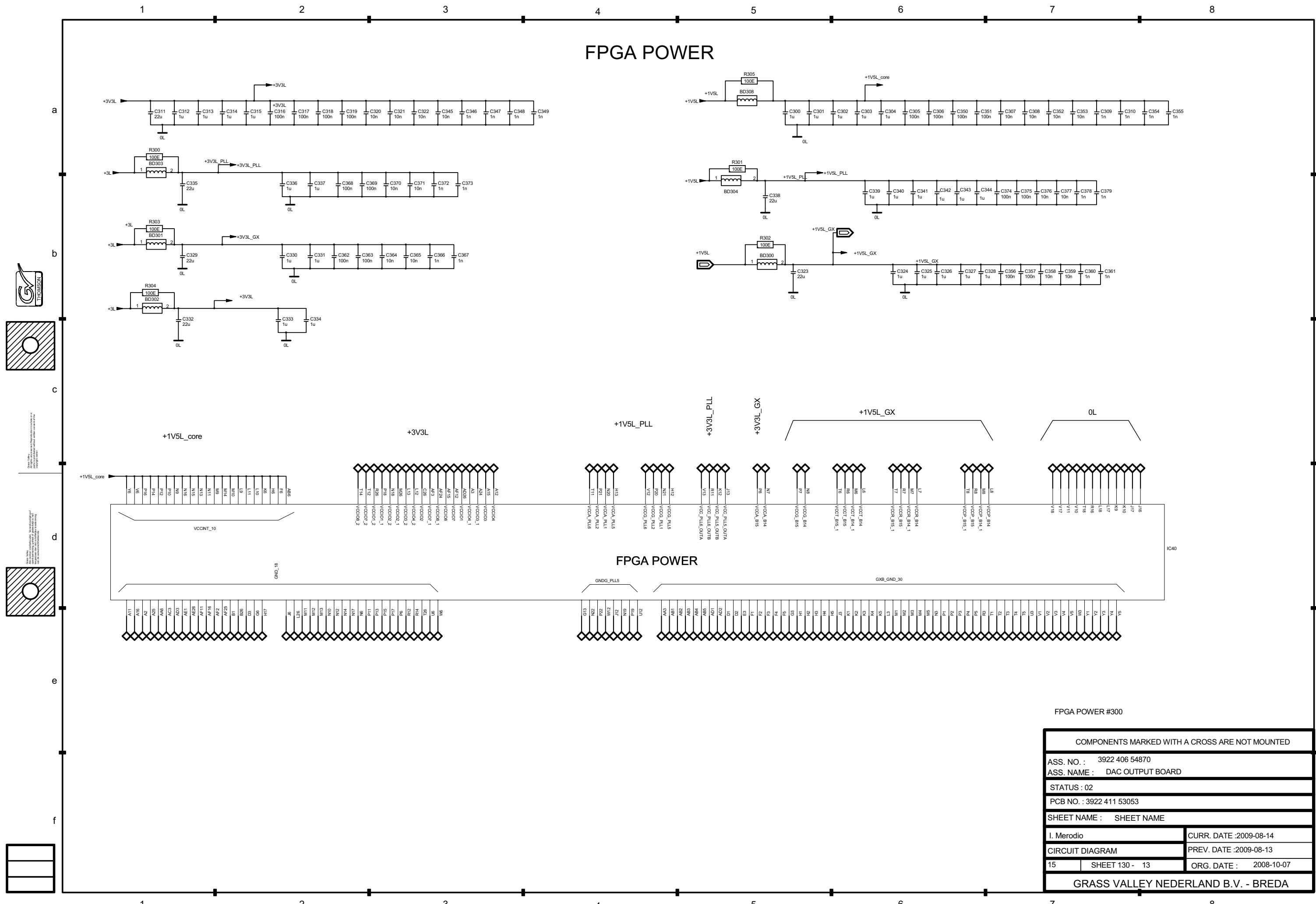


FPGA IO SDI/HDI CHANNELS

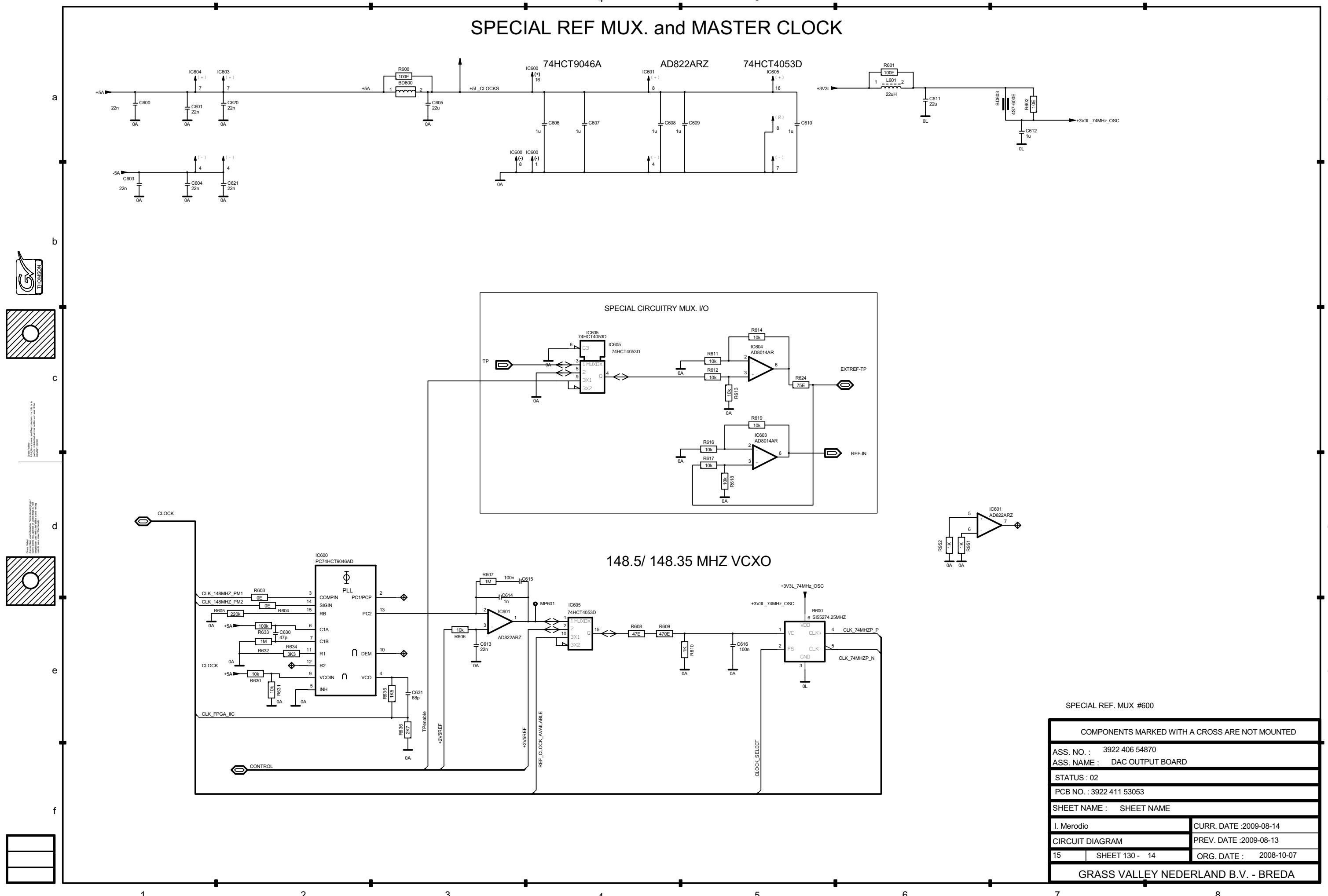


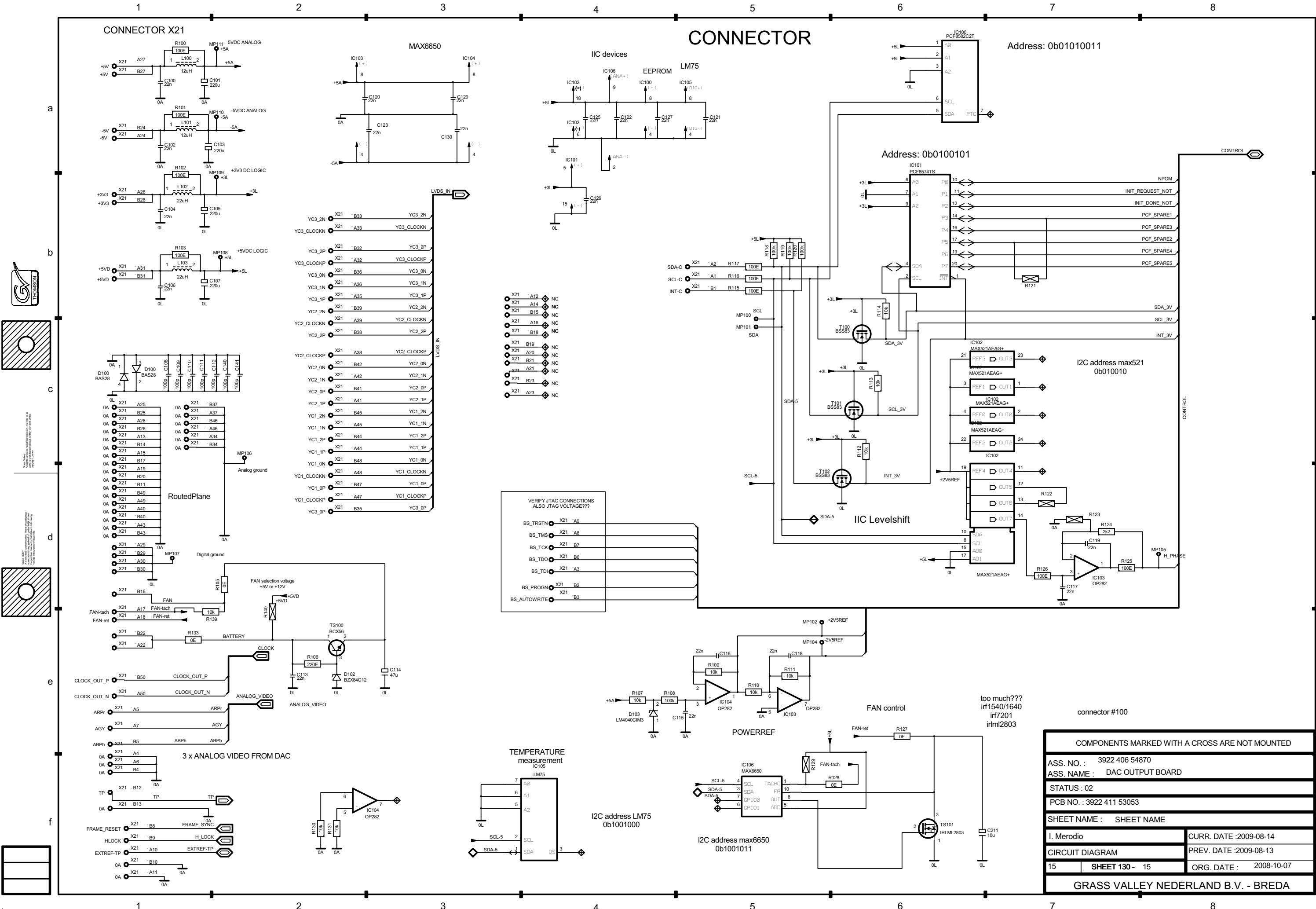
1 2 3 4 5 6 7 8

FPGA POWER



SPECIAL REF MUX. and MASTER CLOCK



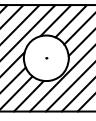


3922 406 54871;5 DAC OUTPUT BOARD

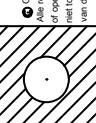
Ref	Description	Part 12nc	Service part
90	FW DAC OUTPUT BOARD	3922 407 50281	see website

grass valley

1 2 3 4 5 6 7 8



GRASS VALLEY
Alle rechten voorbehouden. Vervelvoeging
of openbaarmaking geheel of gedeeltelijk is
niet toegestaan dan met schriftelijke toestemming
van de auteursrechthebber.



C

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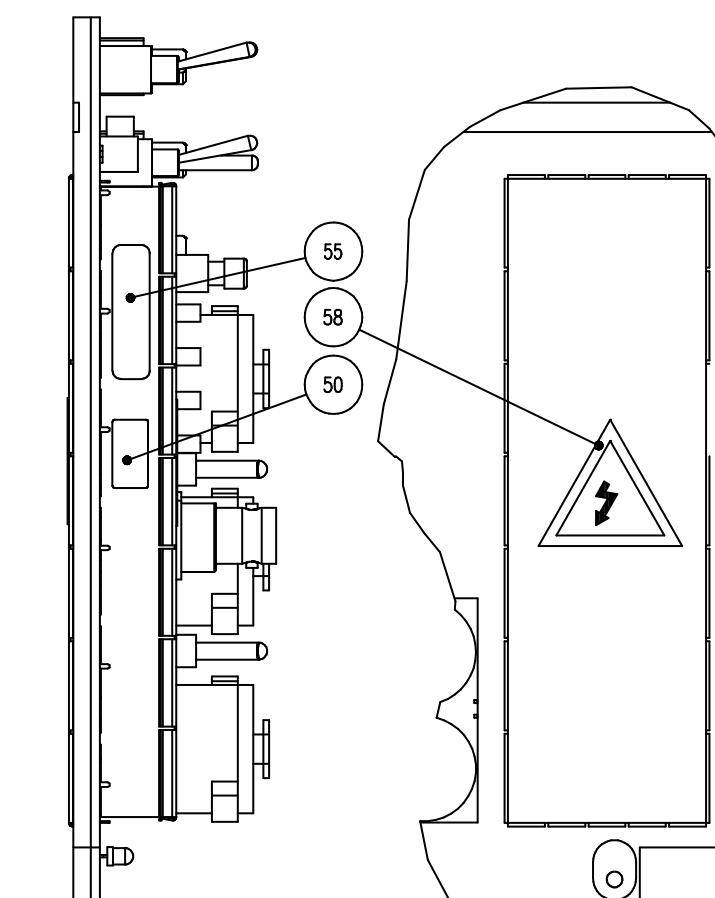
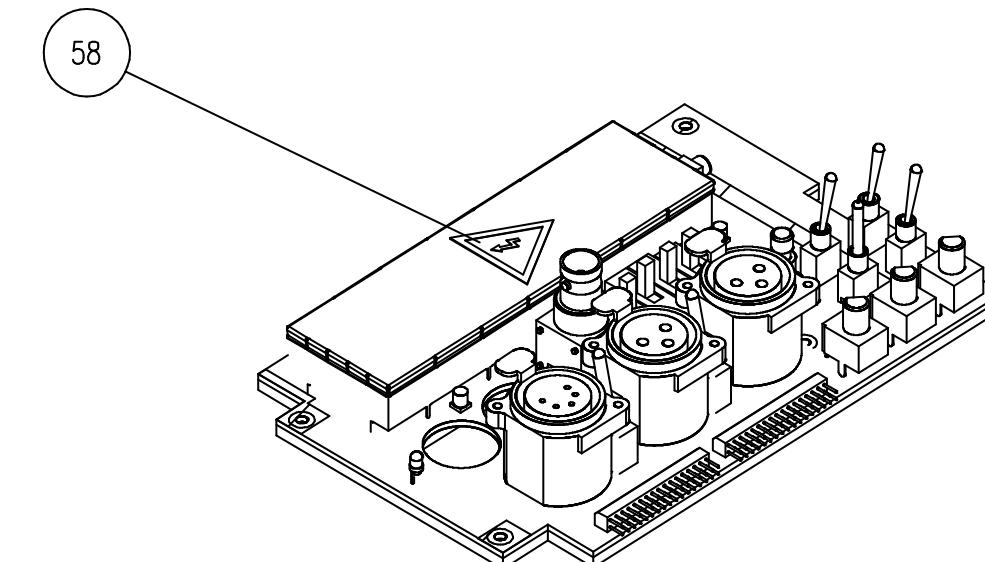
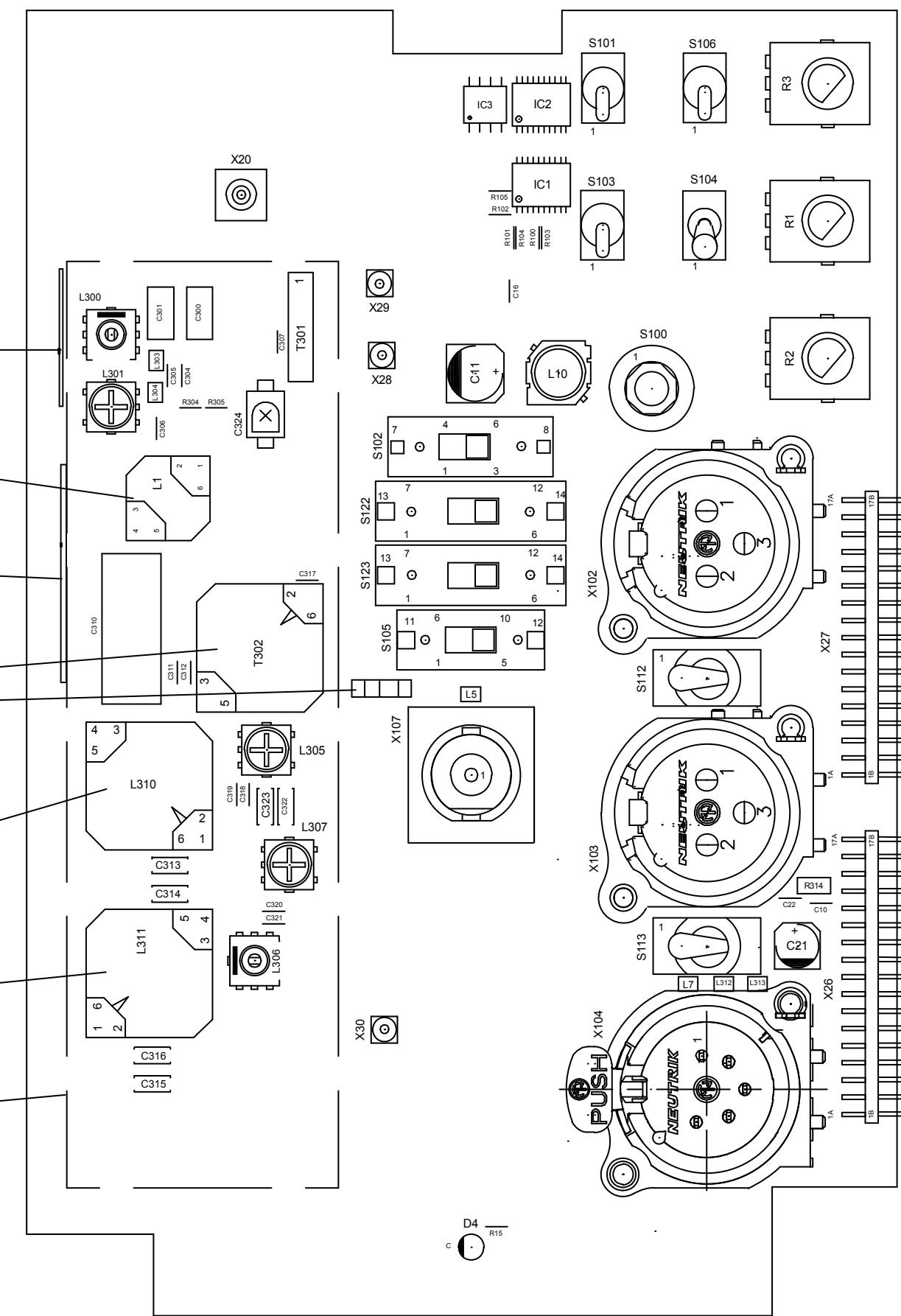
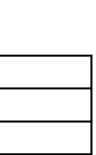
402

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402

402

602



PLACE 50 AND 55 ON SIDE OF BOX

REMOVE ALL STICKERS AND (METAL) CLIPS FOR THE PICK
AND PLACE MACHINE AFTER ASSEMBLY

COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED

STATUS: 06

ASS. 12NC: 3922 406 53060

ASS. NAME: TRIAX BACKPANEL

PCB. 12NC: 3922 411 53063

ASSEMBLY TOP	CURR. DATE: 10-02-05
SCALE 0.7 : 1	PREV. DATE: 07-09-26
R. KOPPE	ORG. DATE: 06-02-24

H VERMEULEN	SHEET: 110-1
-------------	--------------

GRASS VALLEY NEDERLAND B.V. - BREDA

1 2 3 4 5 6 7 8

A

B

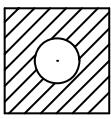
C

D

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Y
Z



GRASS VALLEY
Alle rechten voorbehouden. Vervielde uitsig
of oemstaatlabel op gedruktegr.
van de uitgever niet behoeft
niet gedragt als oef. te achtnemen. Kredietname

GRASS VALLEY
Alle rechten voorbehouden. Vervelendiging
of openbare uitmaakking, geheel of gedeeltelijk, is
van de auteur(s) rechtvaardigheidsrecht
niet toegestaan dan met schriftelijke toestemming.

A diagram consisting of three empty rectangular boxes stacked vertically, enclosed in a single outer border.

A horizontal timeline with numerical labels 1 through 8. Vertical black bars are positioned at the following points: 1, 2, 4, 5, 6, and 8.

1

GRASS VALLEY
Alle rechten voorbehouden. Vervelendelinging
of openbaarmaking, gheel of gedrukt, is
van de auteur voorbehouden.
Niet toegestaan te doen en schriftelijk te determineren.

ASSEMBLY LAYER BOTTOM

1 2 3 4

A B C D E F

C14 C12 C10 C9

C309 C325 R306 C308

C2 C3

C4

ASSEMBLY LAYER BOTTOM

OR THE
BLY
OT MO
10-02-0
07-09-2
6-02-24
110-
- BRE

ASSEMBLY LAYER BOTTOM

REMOVE ALL STICKERS AND (METAL) CLIPS FOR THE PICK
AND PLACE MACHINE AFTER ASSEMBLY

COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED

STATUS: 05

ASS. 12NC: 3922 406 53060

ASS. NAME: TRIAX BACKPANEL

PCB. 12NC: 3922 411 53063

ASSEMBLY BOTTOM
SCALE 0.7 : 1

SCALE 0.7 : 1 PREV. DATE: 07-09-26
B. KOPPE OBG. DATE: 06.02.24

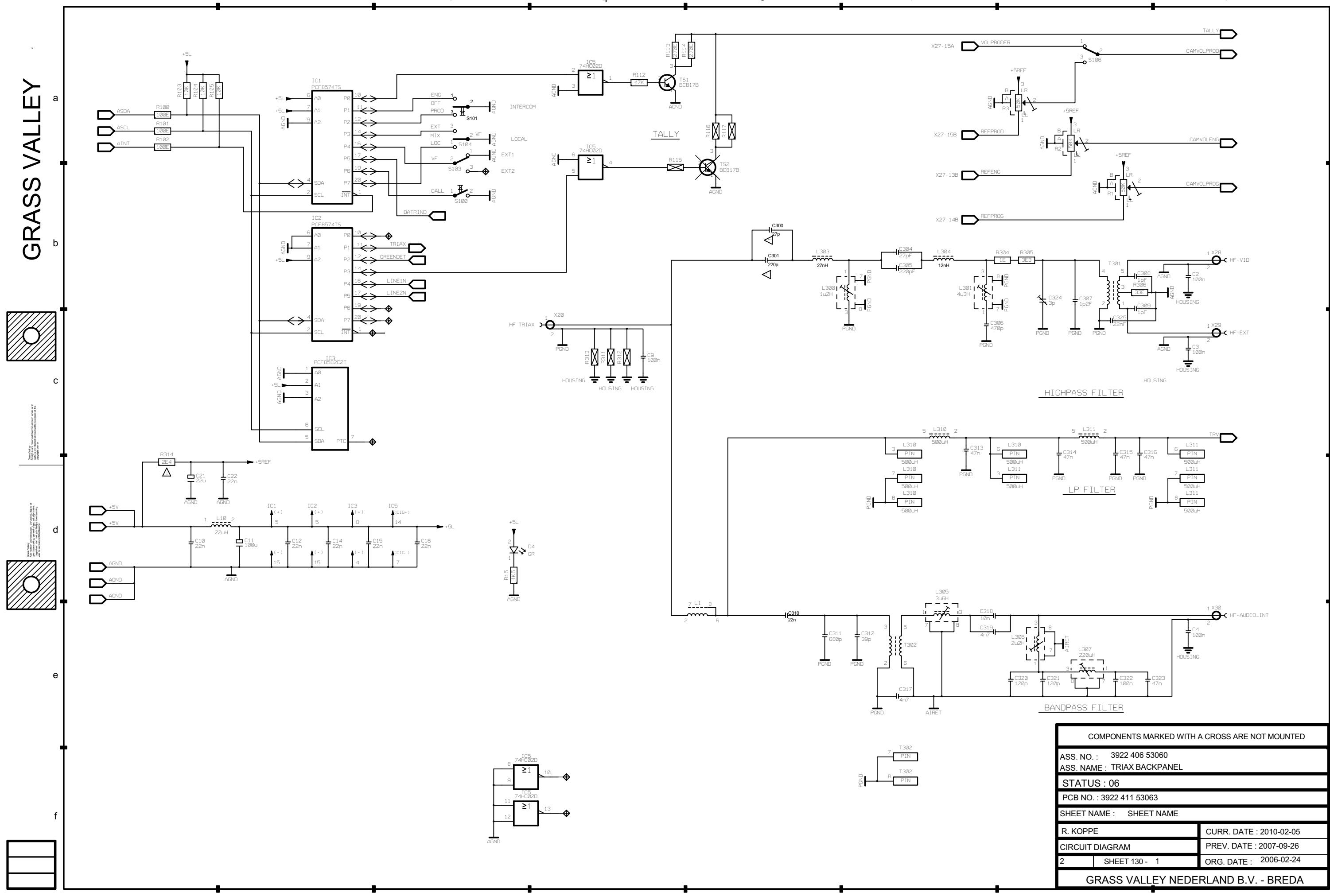
R. KOPPE	ORG. DATE: 06-02-24
H VERMEIJLEN	SHEET: 110-2

GRASS VALLEY NEDERLAND B.V. - BREDA

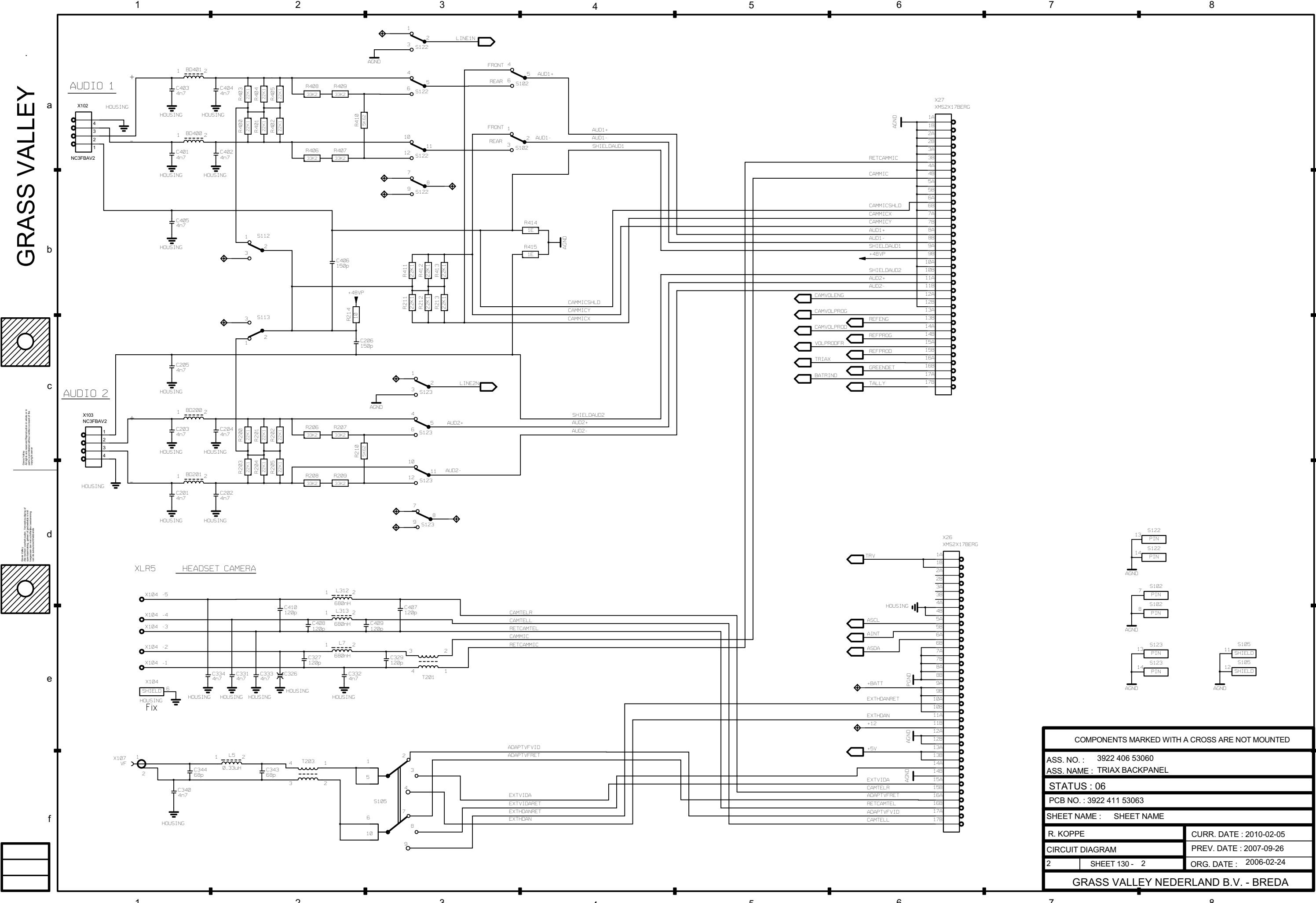
GRASS VALLEY NEDERLAND B.V. - BREDA

— 8

GRASS VALLEY

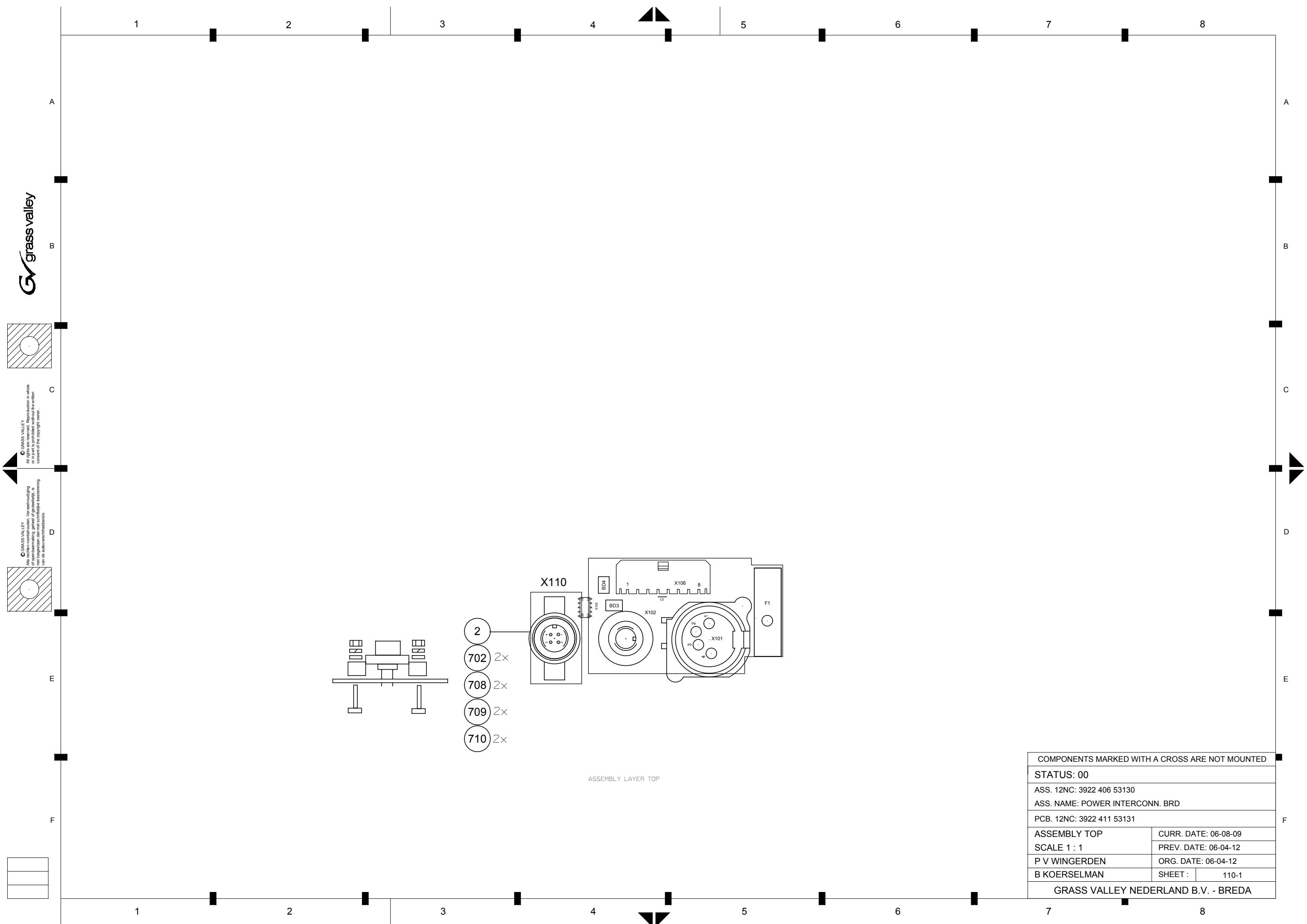


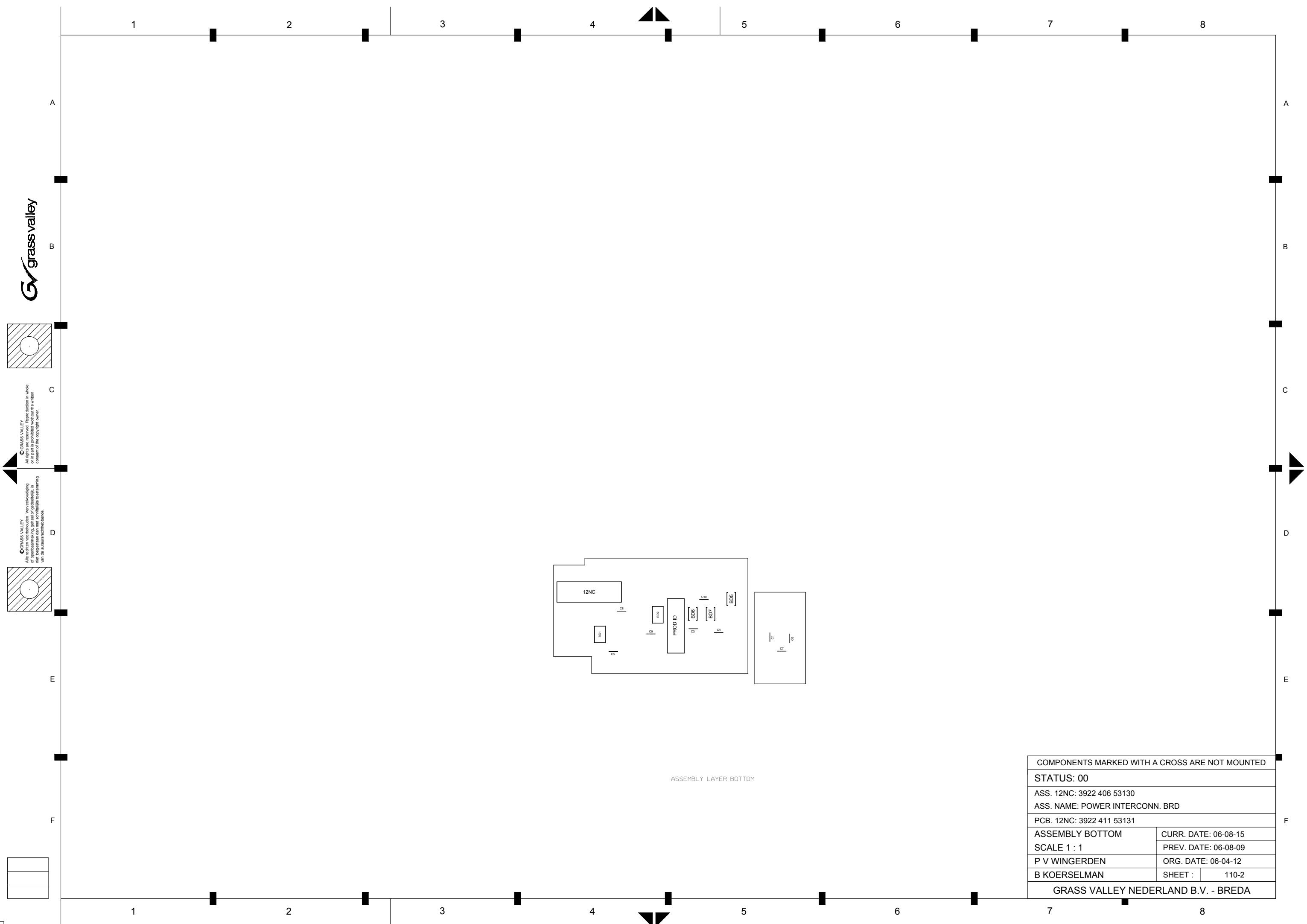
GRASS VALLEY



3922 406 53061;14 TRIAX BACKPANEL

Ref	Description	Part 12nc	Service part
	No spare components available		



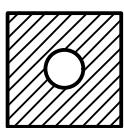


GRASS VALLEY

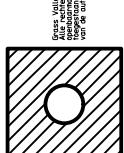
1 2 3 4 5 6 7 8

a

b



c

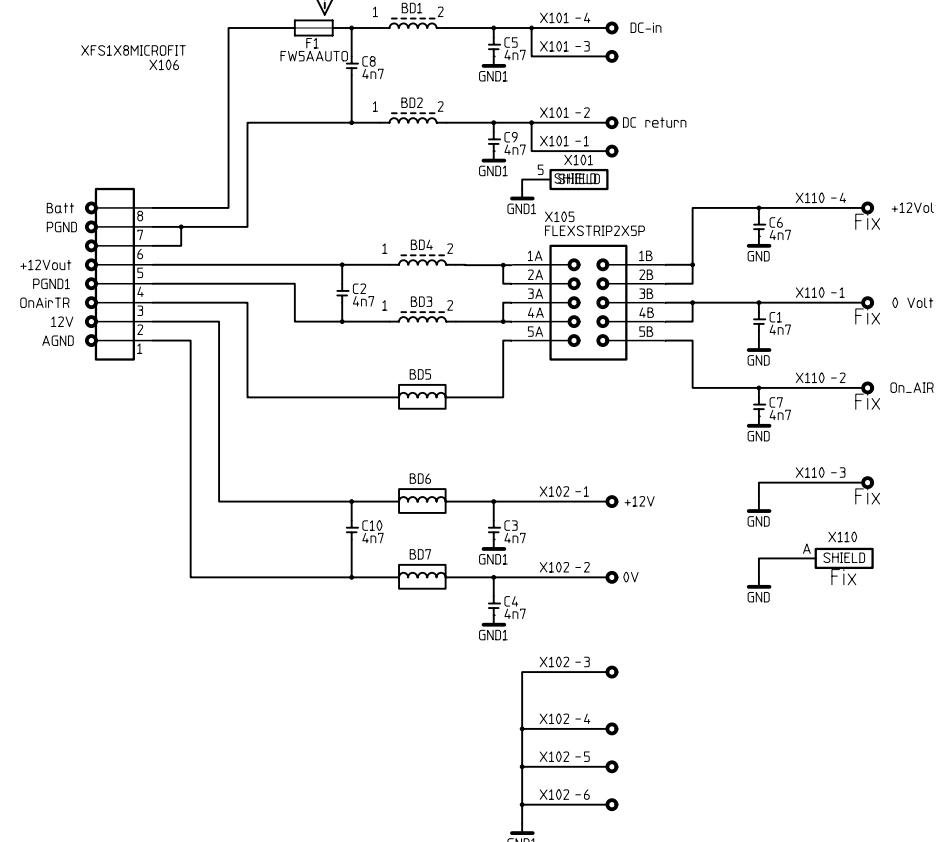


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1 2 3 4 5 6 7 8



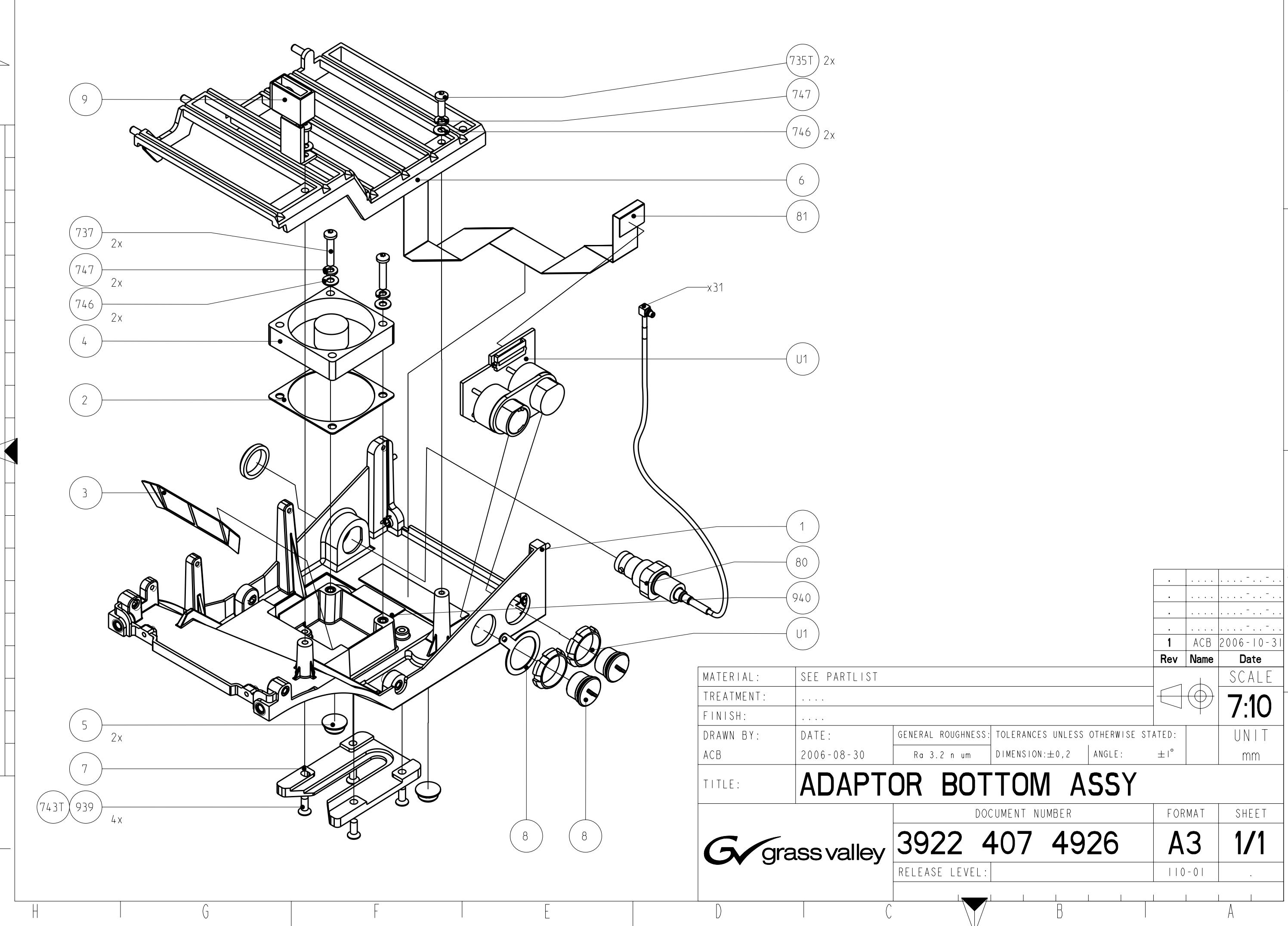
COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED

ASS.NO:	3922 406 53130
ASS.NAME:	POWER INTERCONNECTION BOARD
STATUS:	00
PCB.NO:	3922 411 53131
SHEET NAME :	MAIN PAGE
P. van Wingerden	CURR. DATE: 2006-08-15
CIRCUIT DIAGRAM	PREV. DATE: 2006-08-09
1	1 SHEET1300-11
	ORG. DATE: 2006-04-12

GRASS VALLEY NEDERLAND B.V. - BREDA

3922 406 53131;7 POWER INTERCONNECTION BOARD

Ref	Description	Part 12nc	Spare part
	No spare parts available, only complete board		



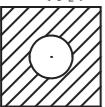
3922 407 49261;7 ADAPTOR BOTTOM ASSY

Ref	Description	Part 12nc	Service part
1	ADAPTOR BOTTOM PAINTED	3922 407 49252	Yes
2	GASKET ADAPTER FAN	3922 405 04651	Yes
3	ADAPTOR FAN MESH	3922 405 04981	Yes
4	FAN ASSY ADAPTOR	3922 407 49941	Yes
5	SELFADHESIVE BUFFER	2822 030 90454	Yes
6	PRINTRAIL BOTTOM	3922 400 08594	Yes
7	V BRACKET LONG	3922 404 23992	Yes
8	CAPS FISCHER 11P+ATTACHMENT	3922 040 03142	Yes
9	INTERCONN.FLEX BRACKET	3922 407 32931	Yes
80	BNC WIRED	3922 407 49972	Yes
81	SUMITOMO FLEX 30P L=210MM	3922 205 00065	Yes
735T	PAN SCR STL ST M3X10	2522 201 08033	Yes
737	PAN SCR STL ST M3X16	2522 201 08036	Yes
743T	CSK SCR STL ST M3X8	2522 203 04024	Yes
746	WASH STL ST 3,2X7	2522 600 27017	Yes
747	SPR WASH STL ST 3,1X5,7	2522 613 12005	Yes
939	SCREW LOCK 222		
940	DOUBLE SIDE ADHESIVE TAPE		
U1	FISHER CONN. BOARD	3922 406 53151	Yes

Grass Valley



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GRASS VALLEY

5

7

8

A

A

B

B

C

C

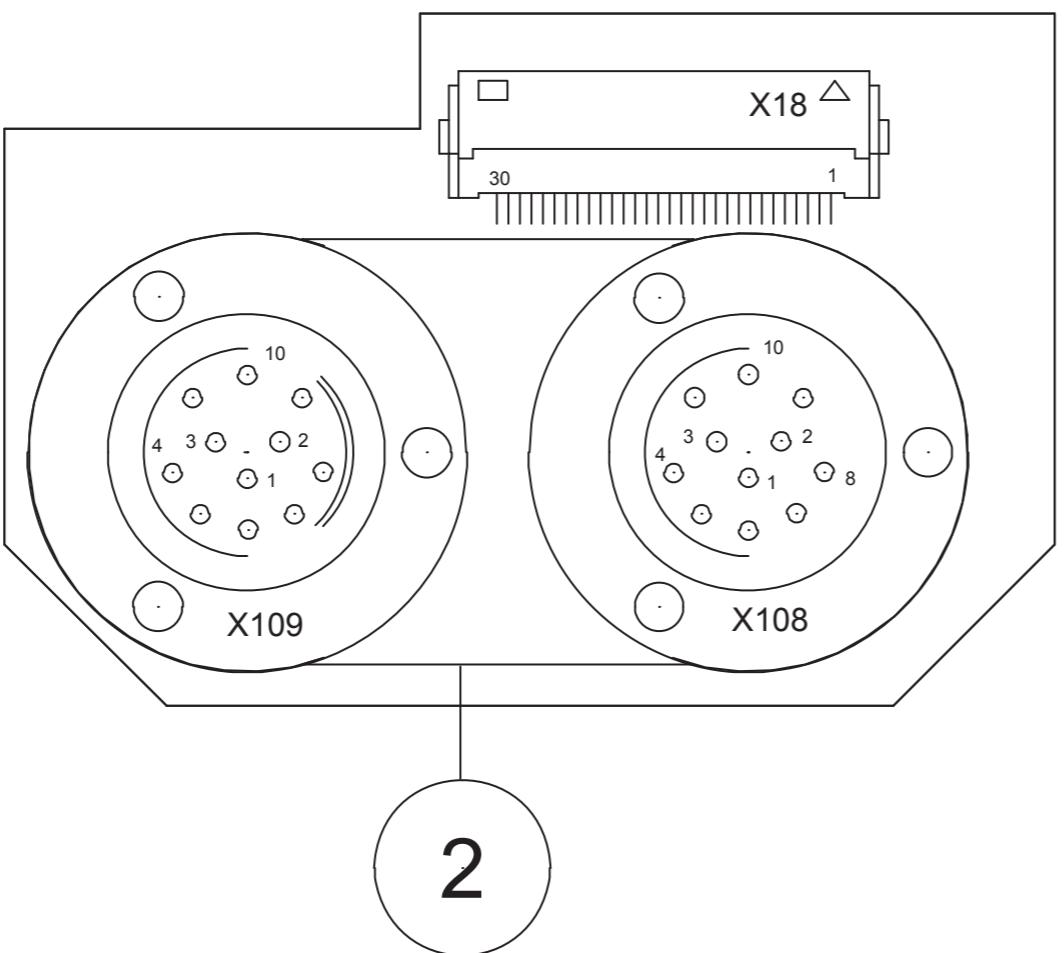
110

E

E

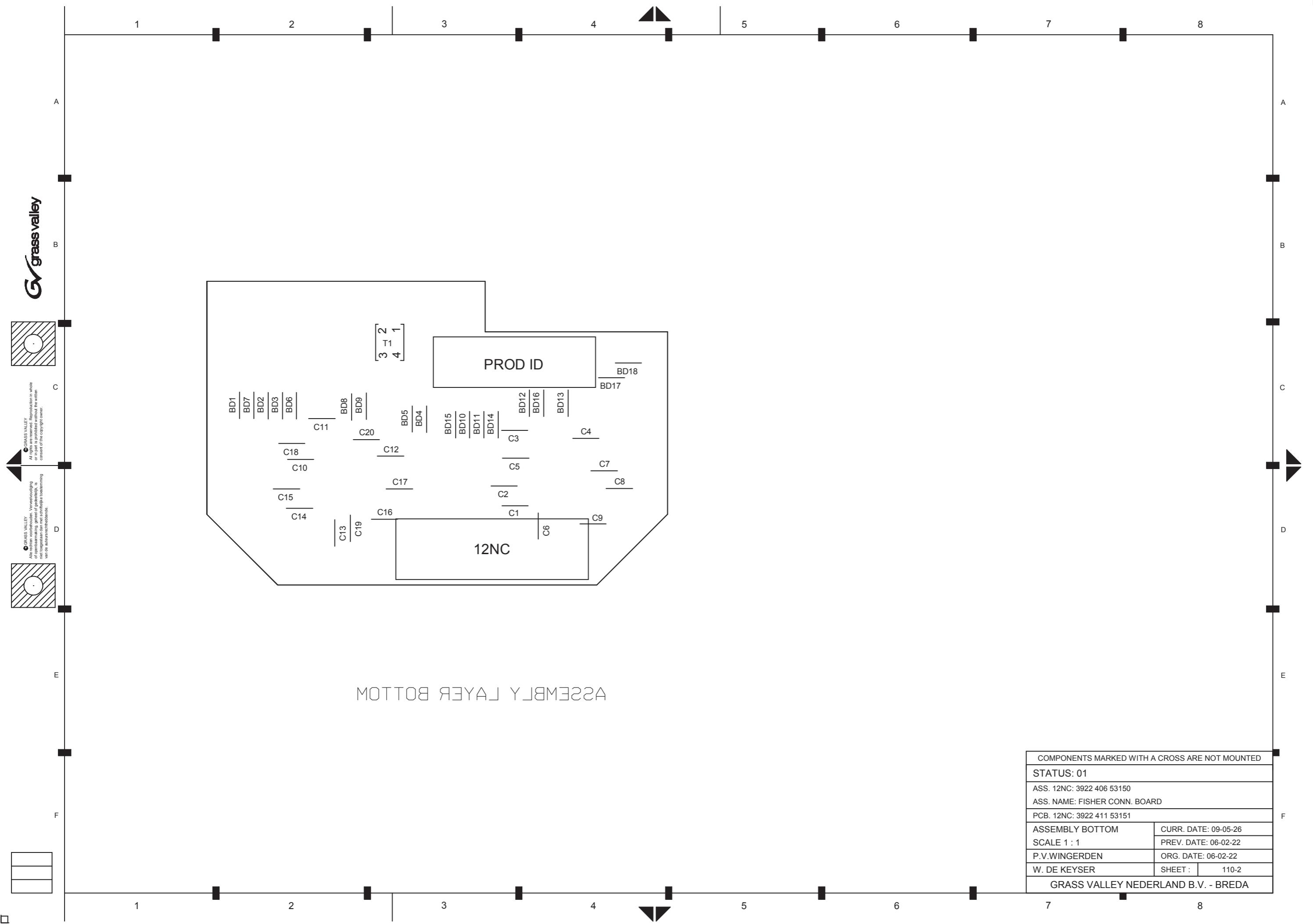
5

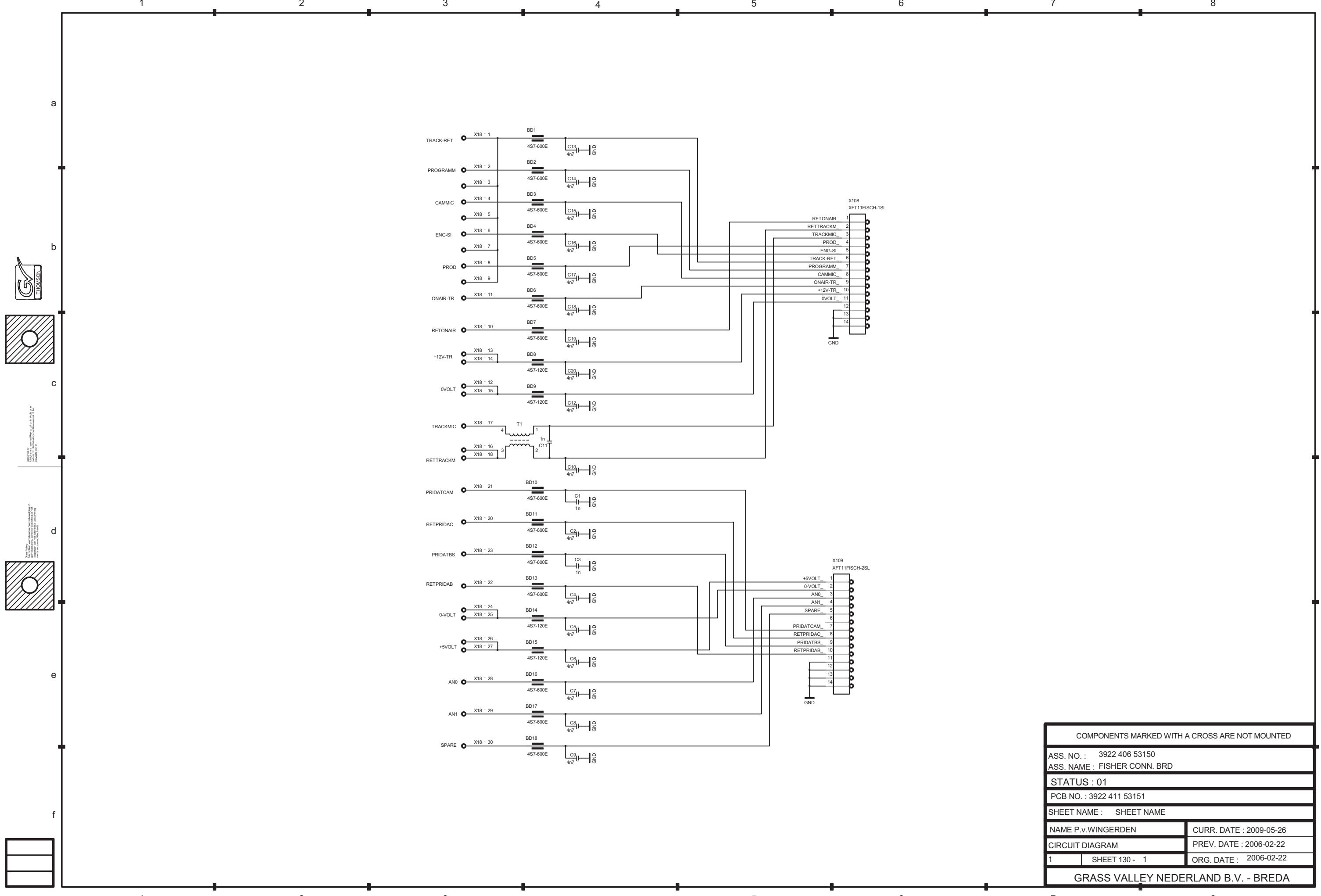
5



ASSEMBLY LAYER TOP

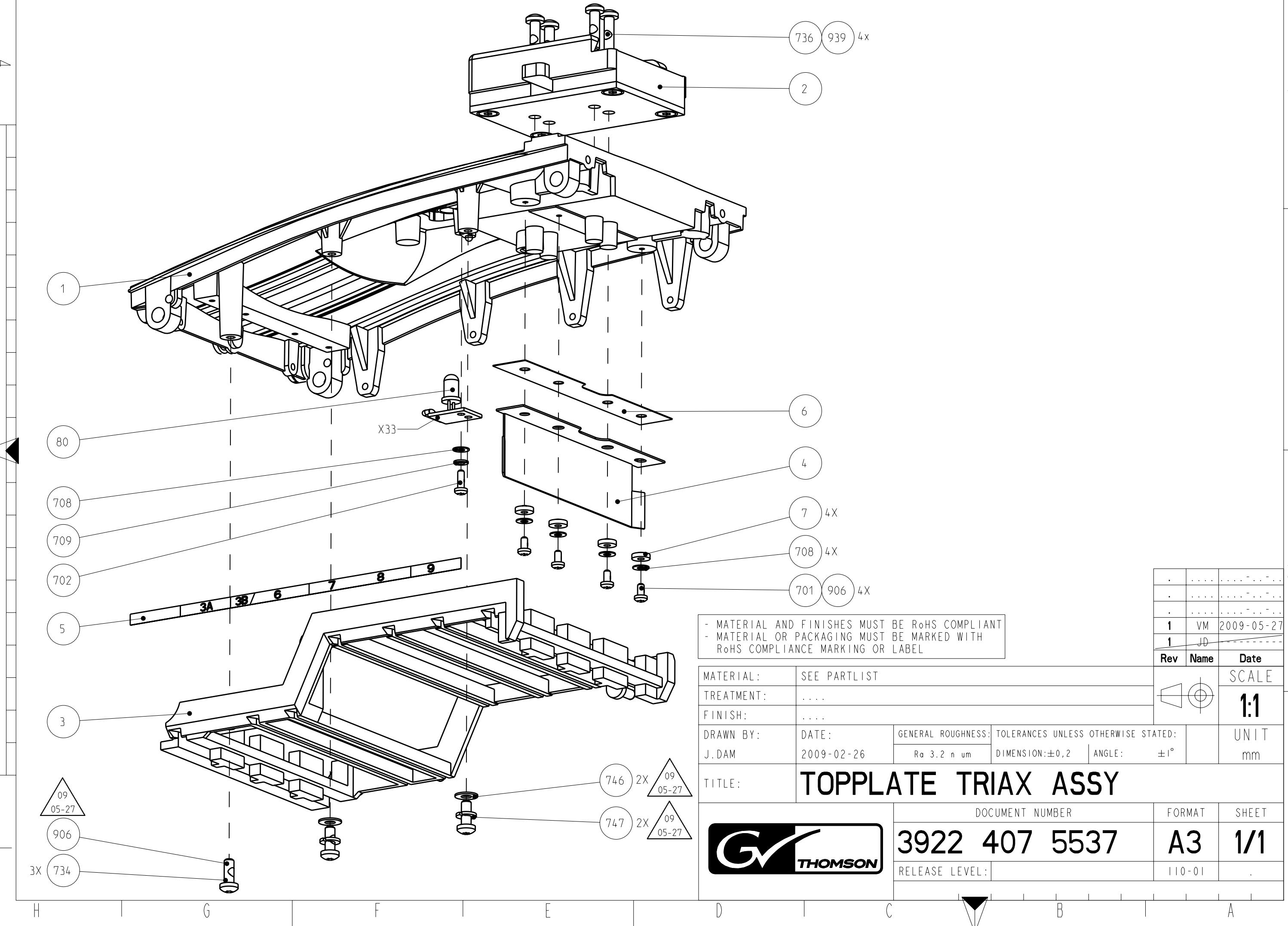
COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED		
STATUS: 01		
ASS. 12NC: 3922 406 53150		
ASS. NAME: FISHER CONN. BOARD		
PCB. 12NC: 3922 411 53151		
ASSEMBLY TOP	CURR. DATE: 09-05-26	
	PREV. DATE: 06-02-22	
SCALE 1 : 1	ORG. DATE: 06-02-22	
W. DE KEYSER	SHEET :	110-1
P.V.WINGERDEN		
GRASS VALLEY NEDERLAND B.V. - BREDA		





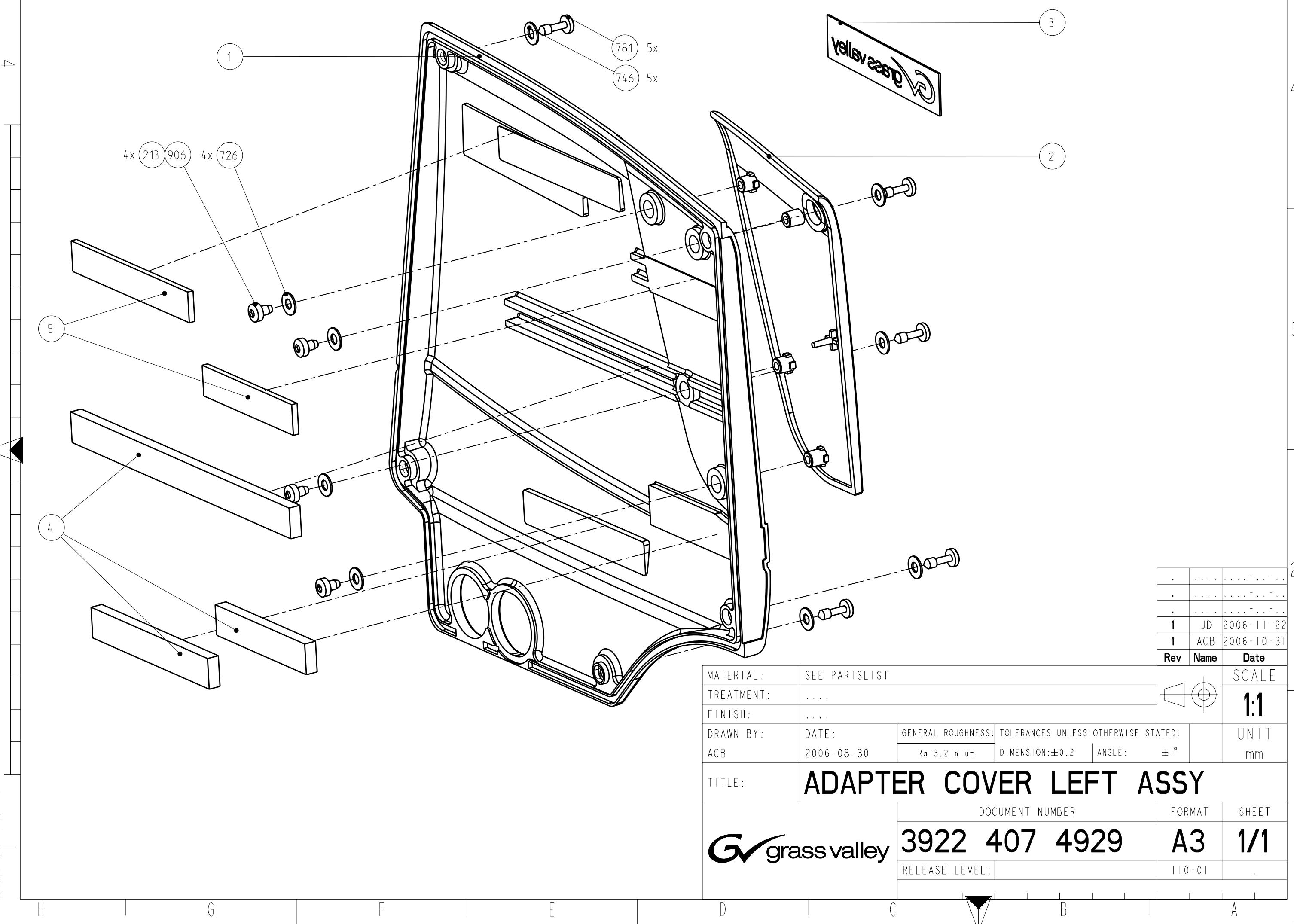
3922 406 53151;2 FISHER CONN. BOARD

Ref	Description	Part 12nc	Service part
	No spareparts available		



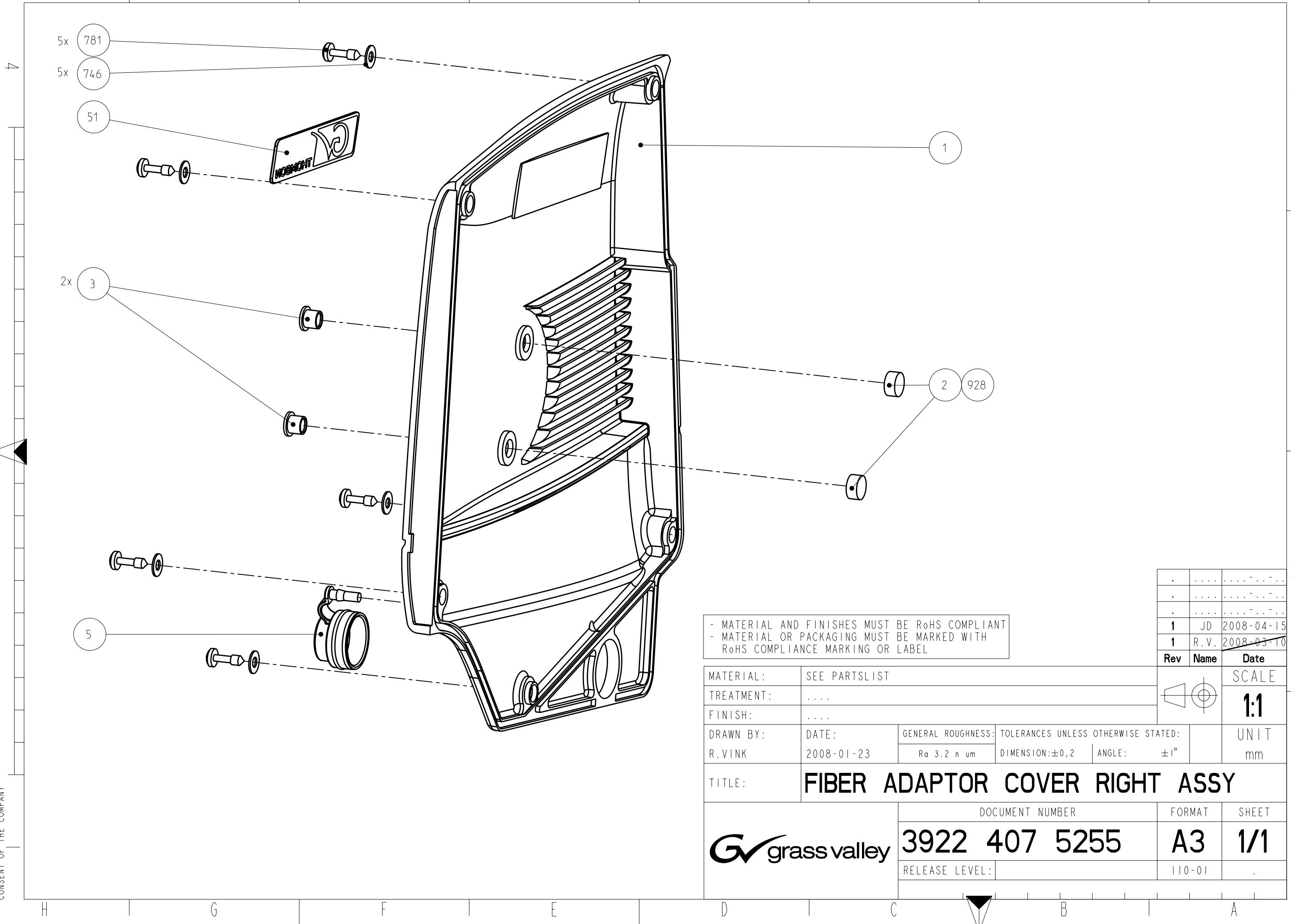
3922 407 55371;4 TOPPLATE TRIAX ASSY

Ref	Description	Part 12nc	Service part
2	QUICK MOUNT BLOCK ASSY	3922 407 20731	ARC
80	TALLY LIGHT ASSY	3922 407 24642	ARC



3922 407 49291;4 ADAPTOR COVER LEFT ASSY

Ref	Description	Part 12nc	Service part
	No spare components available		



3922 407 52551;6 FIB ADAPT COVER RIGHT ASSY

Ref	Description	Part 12nc	Service part
5	BNC COVER	3922 400 09831	Yes