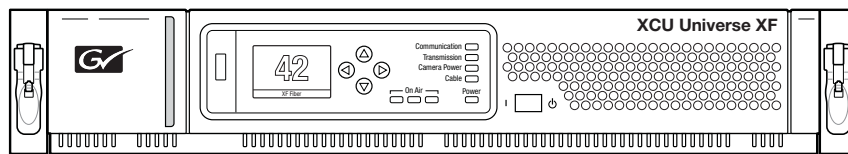


Maintenance Manual

3922 496 32431 July 2015 v1.0



XCU Universe XF

XF Transmission Base Station

Declaration of Conformity

We, Grass Valley Nederland B.V., Bergschot 69, 4817 PA Breda, The Netherlands, declare under our sole responsibility that this product is in compliance with the following standards:

- EN60065 : Safety
- EN55103-1: EMC (Emission)
- EN55103-2: EMC (Immunity)

following the provisions of:

- a. the Low Voltage directive 2006/95/EC
- b. the 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 digital device pursuant to part 15 of the 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.

Copyright

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Trademarks

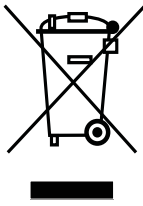
Grass Valley, LDX Series and derivatives are trademarks of Belden Inc. or Grass Valley. All other tradenames referenced are service marks, trademarks, or registered trademarks of their respective companies.

Website

Visit the Grass Valley public website to download the latest user's guide updates and additional information about your broadcast product:

www.grassvalley.com

End-of-life product recycling



Grass Valley's innovation and excellence in product design also extends to the programs we've established to manage the recycling of our products. Grass Valley has developed a comprehensive end-of-life product take back program for recycle or disposal of end-of-life products. Our program meets the requirements of the European Union's WEEE Directive and in the United States from the Environmental Protection Agency, individual state or local agencies.

Grass Valley's end-of-life product take back program assures proper disposal by use of Best Available Technology. This program accepts any Grass Valley branded equipment. Upon request, a Certificate of Recycling or a Certificate of Destruction, depending on the ultimate disposition of the product, can be sent to the requester. Grass Valley will be responsible for all costs associated with recycling and disposal, including freight, however you are responsible for the removal of the equipment from your facility and packing the equipment ready for pickup.

For further information on the Grass Valley product take back system please contact Grass Valley at + 800 80 80 20 20 or +33 1 48 25 20 20 from most other countries. In the US and Canada please call 800-547-8949 or 530-478-4148. Ask to be connected to the EH&S Department. In on, information concerning Grass Valley's environmental policy can be found at: www.grassvalley.com/about/environmental-policy

Important information

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 practises.

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

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 intended function or shows visible damage.

Warnings and Cautions

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 to property.

Warnings

- THE CURRENTS 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.
- USE ONLY FUSES OF THE TYPE AND RATING SPECIFIED.

Cautions

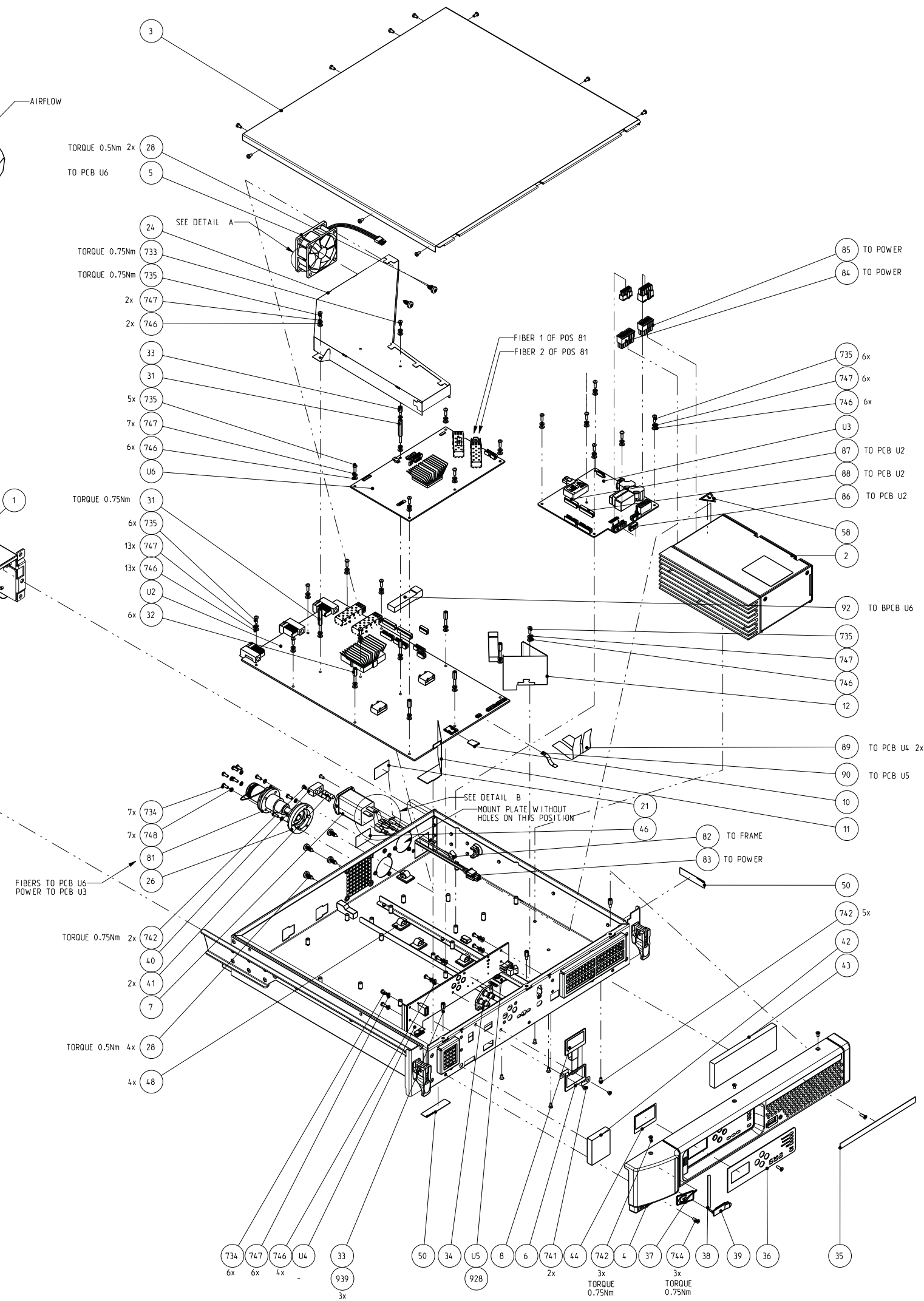
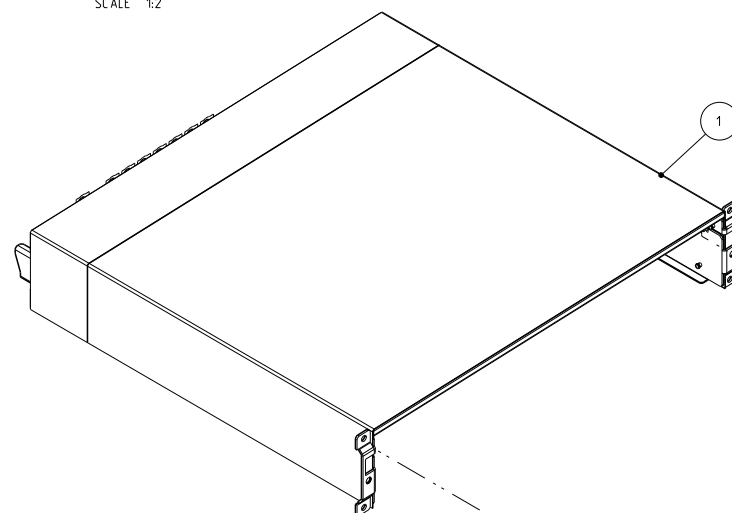
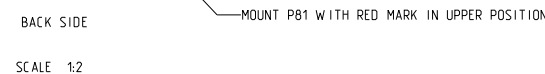
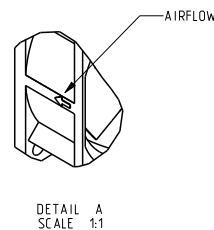
- To prevent risk of overheating, ventilate the product correctly.

0031 126 00200 XCU UNIVERSE XF LEMO HYBRID FIBER


List of Field Replacable Units (FRUs):

Pos	Part Number	Description
2	3922 407 56971	POWER SUPPLY 300V HDDT
5	3922 407 63091	FAN ASSY
8	400-00000-01	DISPLAY OLED 80591 1.54" 128x64dots
39	3922 400 11881	DIAGNOSE COVER
42	3922 405 08641	AIR FILTER FOAM LEFT
43	3922 405 08651	AIR FILTER FOAM RIGHT
80A	3922 407 62632	LEMO FIBER BASESTATION ASSEMBLY
80I	2422 015 18546	CLB FLEX 30P FFC 0.5 SUMICARD TL=81MM 30V
80J	3922 205 00005	CLB FLEX 10P FFC 0.5 SUMICARD TL=46MM 30V
92	204-00000-01	SFP+ PASSIVE 50 cm 10G CABLE ASSY 74752-1051
734	2522 201 08032	PAN SCR STL ST M3X8
742	2522 203 04023	CSK SCR STL ST M3X6
744	2522 203 04025	CSK SCR STL ST M3X10
746	2522 600 27017	WASH STL ST 3,2X7
747	2522 613 12005	SPR WASH STL ST 3,1X5,7
791	326-00005-01	COMBI SCR PAN STL ST M3X6
792	326-00006-01	COMBI SCR PAN STL ST M3X8
793	326-00007-01	COMBI SCR PAN STL ST M3X10
U2	3922 406 57241	PCBA HS GENERIC BOARD
U3	3922 406 57071	POWER DETECTION 3G BS
U4	3922 406 57441	HS USER INTERFACE BOARD
U6	3922 406 57211	PCBA TRANSMISSION BRD 10G XCU

Maintenance Manual



TORQUE TABLE	
Tolerances unless otherwise stated: $\pm 10\%$	
Torque unless otherwise stated:	
Thread size	Torque (Nm)
M2	0.5
M2.5	0.75
M3	1
M4	2


 POS 45, 47, 91 AND U7 REMOVED

Rev:	Name:	Date:
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.
.
-01	CHP	2015-01-0
0	1	ES 2014-04-0
	F SCHMIT	

MATERIAL AND FINISHES MUST BE RoHS COMPLIAN




DOCUMENT NUMBER:	SHEET:043-01	.	CHP	2015-01-0
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8926 428 0100	1	ES	2014-04-0
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DESCRIPTION:	XCU XTREMESPEED XF FIBER
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GENERAL ROUGHNESS:	IF TOLERANCE AND TOLERANCE TABLE ARE ABSENT THEN APPLY DIM +0.2 ANG ±1°	UNIT:		SCALE:	FORMAT:	SHEET:
Ra 3.2 µm		mm		3:10	A1	1/1

UNIT:		SCALE:	FORMAT:	SHEET:
mm		3:10	A1	1/1

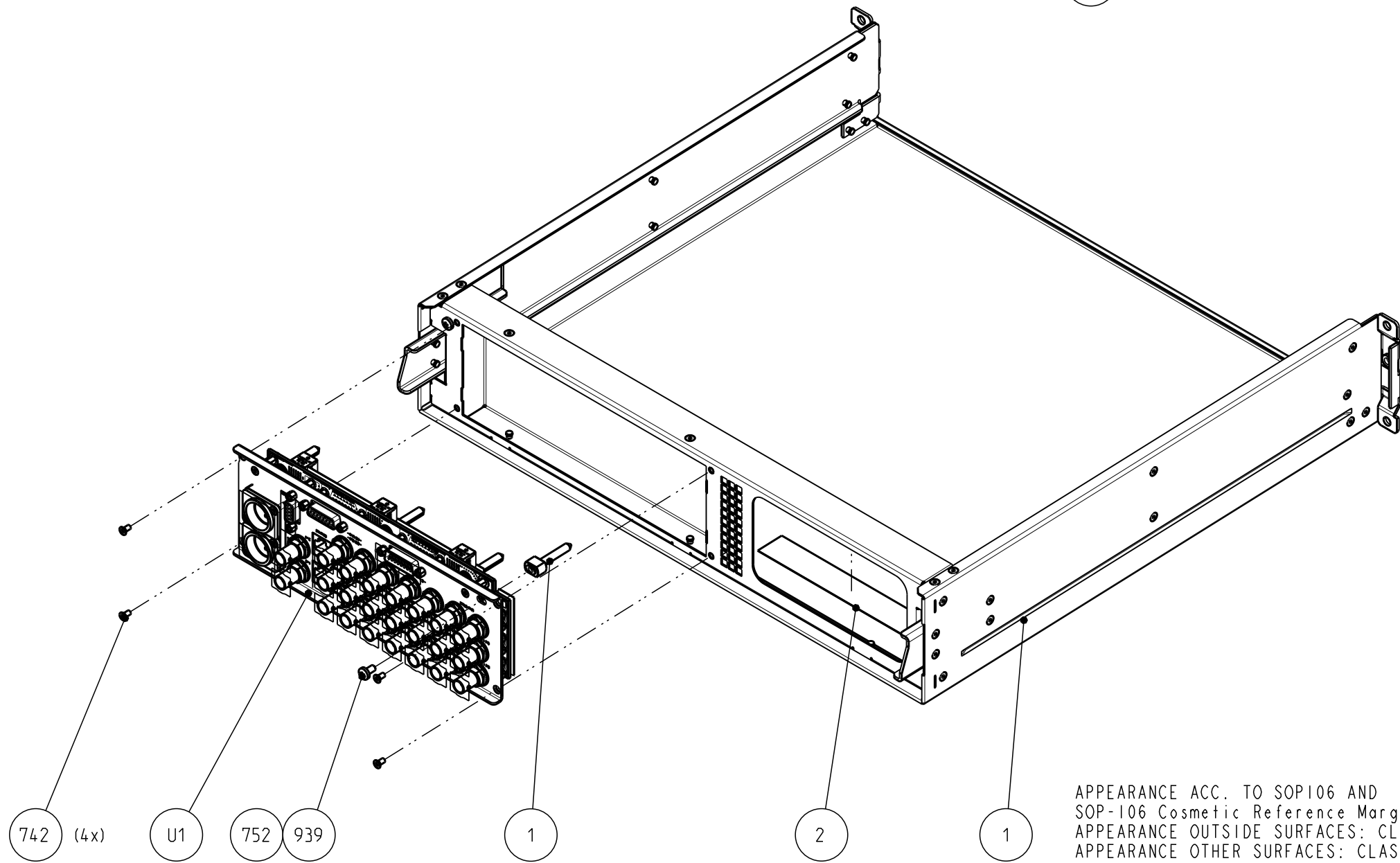
3922 407 63071 19 INCH BS CRADLE

List of Field Replacable Units (FRUs):

Pos	Find	Part Number	Description
742		2522 203 04023	CSK SCR STL ST M3X6
752		2522 201 08048	PAN SCR STL ST M4X8
U1		3922 406 56581	PCBA CONNECTOR BOARD

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APPEARANCE ACC. TO SOP106 AND
SOP-106 Cosmetic Reference Margherita Sheet Metal.pptx
APPEARANCE OUTSIDE SURFACES: CLASS C
APPEARANCE OTHER SURFACES: CLASS D

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

MATERIAL:	See Partslist					SCALE
TREATMENT:					1:10
FINISH:					
DRAWN BY:	DATE:	GENERAL ROUGHNESS:	TOLERANCES UNLESS OTHERWISE STATED:			UNIT
D. Reinieren	2012-11-23	Ra 3.2 n um	DIMENSION:±0,2	ANGLE: ±1°		
TITLE:	19 INCH BS CRADLE					
		DOCUMENT NUMBER			FORMAT	SHEET
		3922 407 6307			A3	1/1
		RELEASE LEVEL:	...		110-01	.

3922 407 62911 BS HOUSING

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
2	3922 407 63331	EAR LEFT
3	3922 407 63341	EAR RIGHT

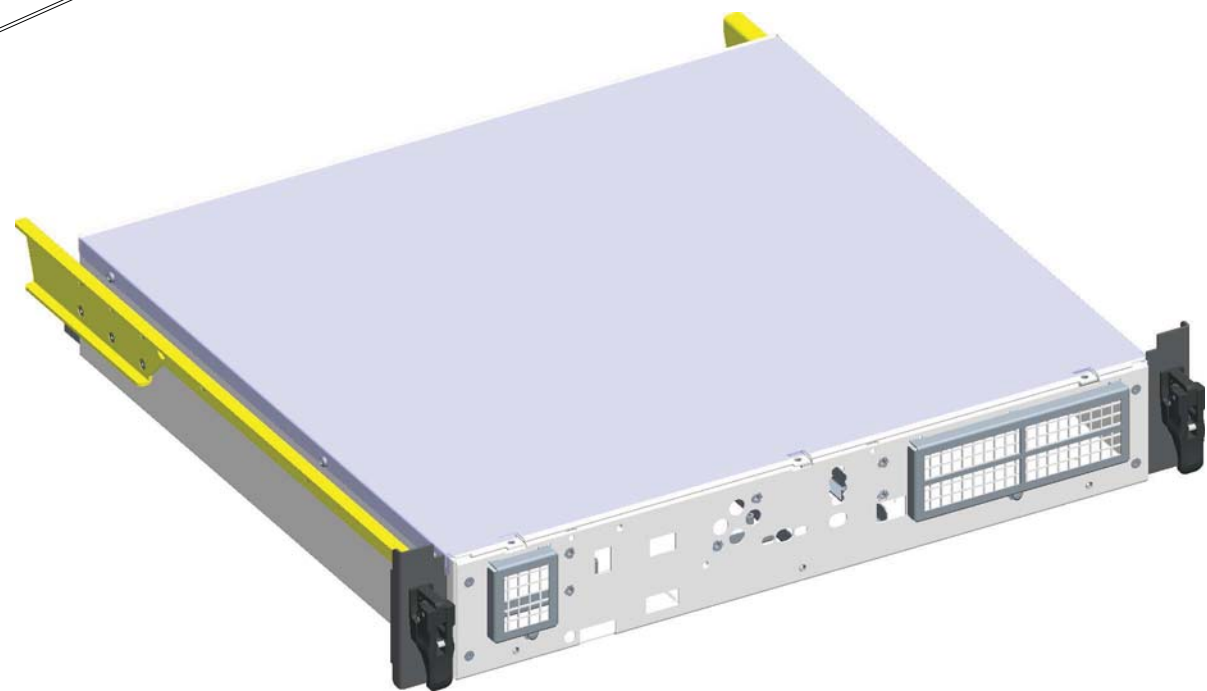
Maintenance Manual


014

—z i j k a n t

bovenzijde
dekse l

-voorzijde



Rev	Name	Date
		SCALE
		1/1

STATED:	UNIT
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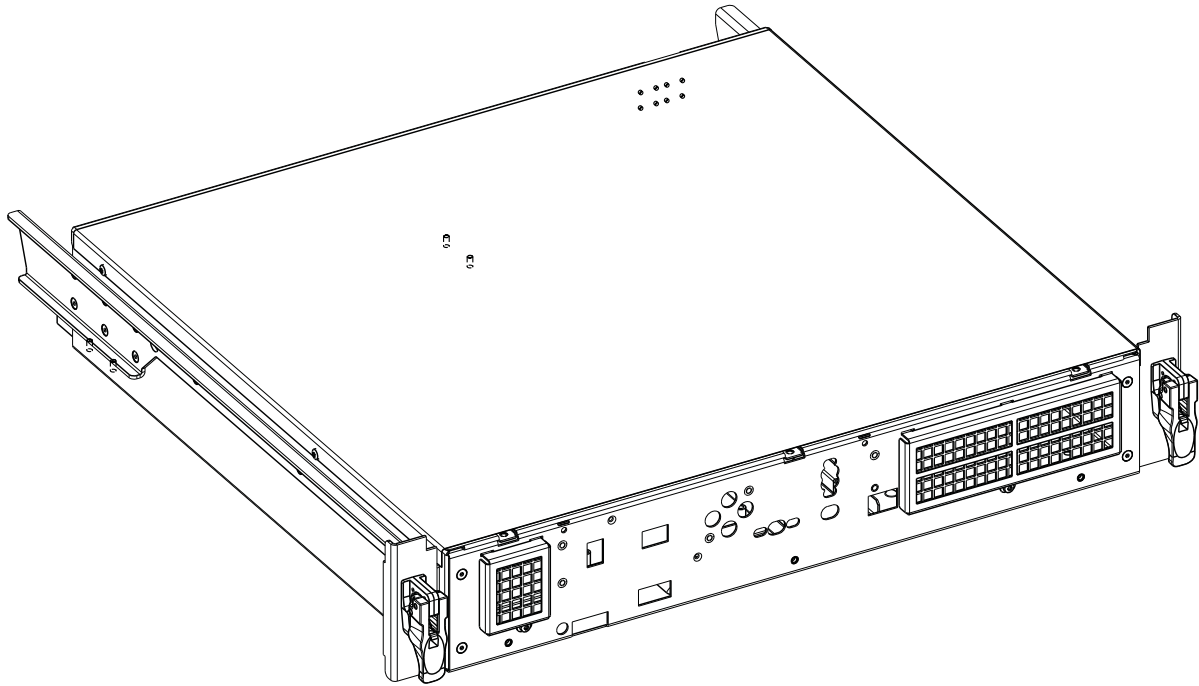
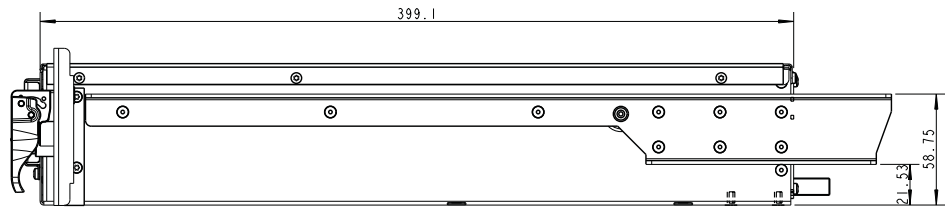
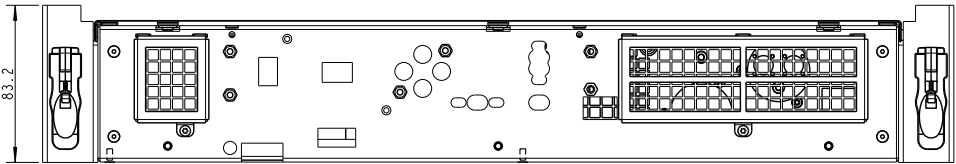
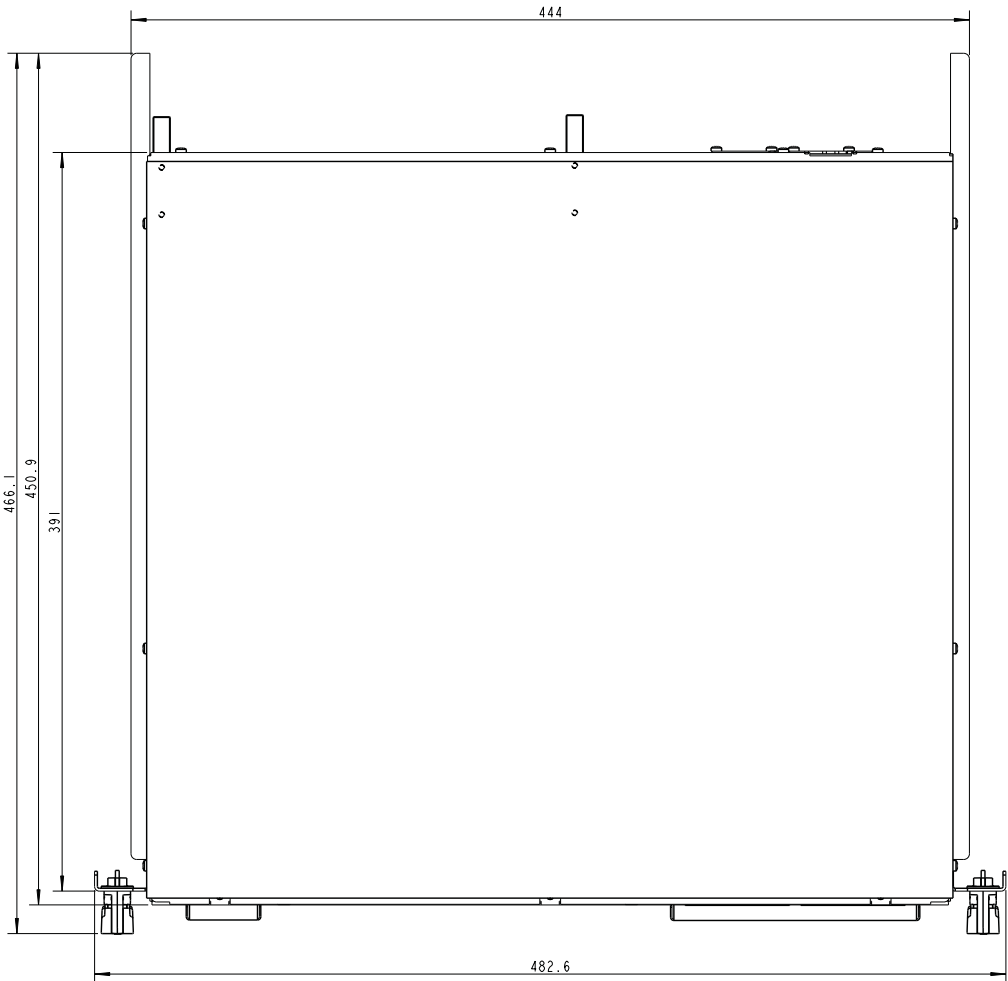
SSY

DOCUMENT NUMBER	
3922 407 6291	
Cortexon nbr	0823K-001-0C

FORMAT	SHEET
A1	2/3
-	

Cortexon nbr	0823K-001-0C
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Rev	Name	Date
1		
SCALE		
1/2		
UNIT		
mm		
TITLE: MARGERITA HOUSING ASSY		
DOCUMENT NUMBER		
3922 407 6291		
FORMAT		
A1		
SHEET		
3/3		
Cortexon nbr 0823K-001-0C		



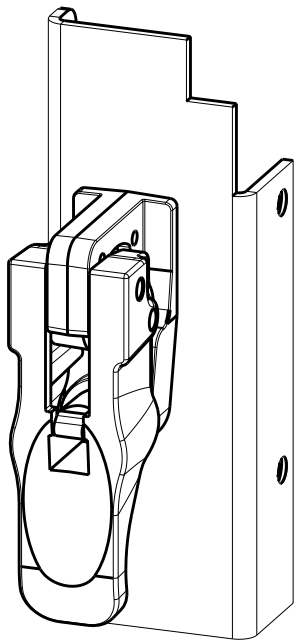
3922 407 63331 EAR LEFT

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
	3922 407 63331	EAR LEFT
1	3922 407 63321	LOCKING HANDLE

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APPEARANCE ACC. TO SOP106
APPEARANCE FRONT SURFACES: CLASS C
APPEARANCE OTHER SURFACES: CLASS D

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.-.-.-.
.-.-.-.
.-.-.-.
1-.-.-.
Rev	Name	Date

MATERIAL:			
TREATMENT:			
FINISH:			
DRAWN BY:	DATE:	GENERAL ROUGHNESS:	TOLERANCES UNLESS OTHERWISE STATED:	
CH PONCIN	2013-09-20	Ra 3.2 n um	DIMENSION:±0,2	ANGLE:

SCALE
1:1

UNIT
mm

TITLE: **EAR LEFT**

 grass valley	DOCUMENT NUMBER		FORMAT	SHEET
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	RELEASE LEVEL: ...		110-01	.

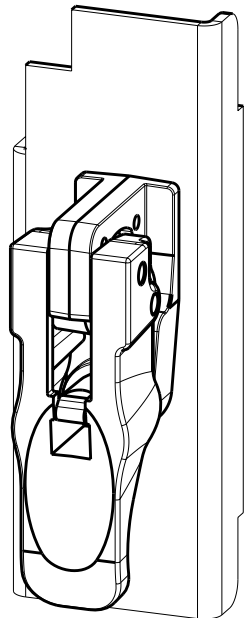
3922 407 63341 EAR RIGHT

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
	3922 407 63341	EAR RIGHT
1	3922 407 63321	LOCKING HANDLE

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APPEARANCE OTHER SURFACES: CLASS D

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1-.-.-.

Rev	Name	Date
SCALE		
1:1		

MATERIAL:				
TREATMENT:				
FINISH:				
DRAWN BY:	DATE:	GENERAL ROUGHNESS:	TOLERANCES UNLESS OTHERWISE STATED:		UNIT
CH PONCIN	2013-09-20	Ra 3.2 n um	DIMENSION:±0,2	ANGLE: ±1°	

TITLE:	EAR RIGHT				
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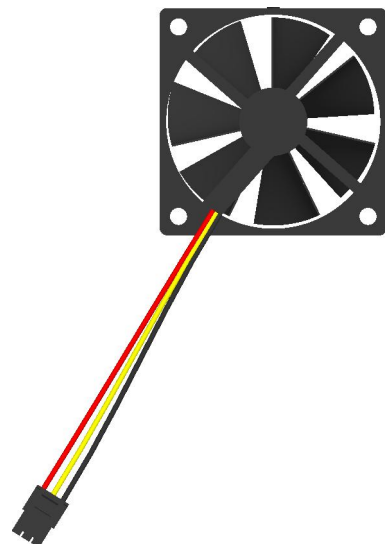
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	RELEASE LEVEL:	...	110-01	.

3922 407 63091 FAN ASSY

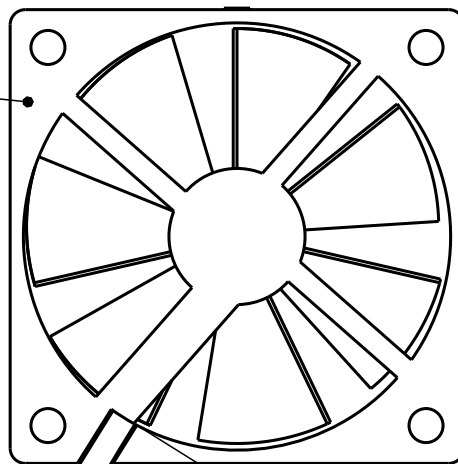
List of Field Replacable Units (FRUs):

Pos	Part Number	Description
	3922 407 63091	FAN ASSY

Maintenance Manual



SCALE 1:2



(3x)



RED

YELLOW

BLACK

100±5

1. RED
2. YELLOW
3. BLACK

SCALE 2:1


- NEVER TOUCH FANBLADES
- PACK FANS SEPARATELY IN ORIGINAL PACKAGING OR SIMILAR

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

.-.-.-
.-.-.-
.-.-.-
.-.-.-
1-.-.-
Rev	Name	Date
		SCALE
		1:1

MATERIAL:	SEE PARTSLIST				
TREATMENT:	...				
FINISH:	...				
DRAWN BY:	DATE:	GENERAL ROUGHNESS:	TOLERANCES UNLESS OTHERWISE STATED:		UNIT mm
D. Reinieren	2012-09-20	Ra 3.2 n um	DIMENSION:±0,2	ANGLE: ±1°	

TITLE:	FAN ASSY				
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 grass valley	DOCUMENT NUMBER		FORMAT	SHEET
	3922 407 6309		A4	1/1
	RELEASE LEVEL:		110-01	.