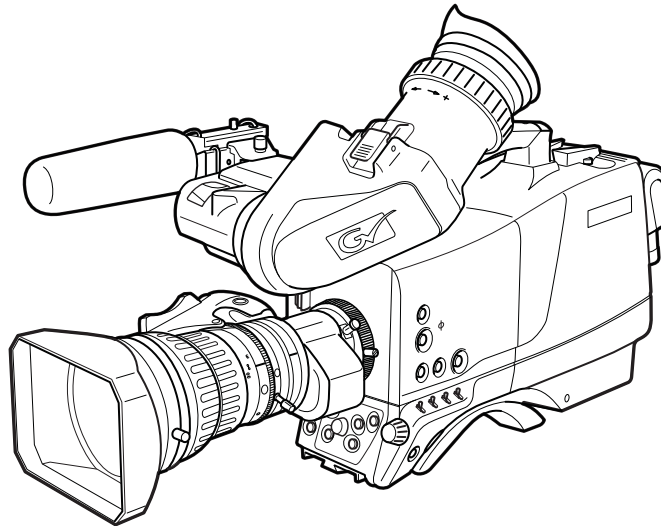


Maintenance Manual

3922 496 32251 March 2015 v2.0



LDX 86 HS/XS

HiSpeed/XtremeSpeed HD camera

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.

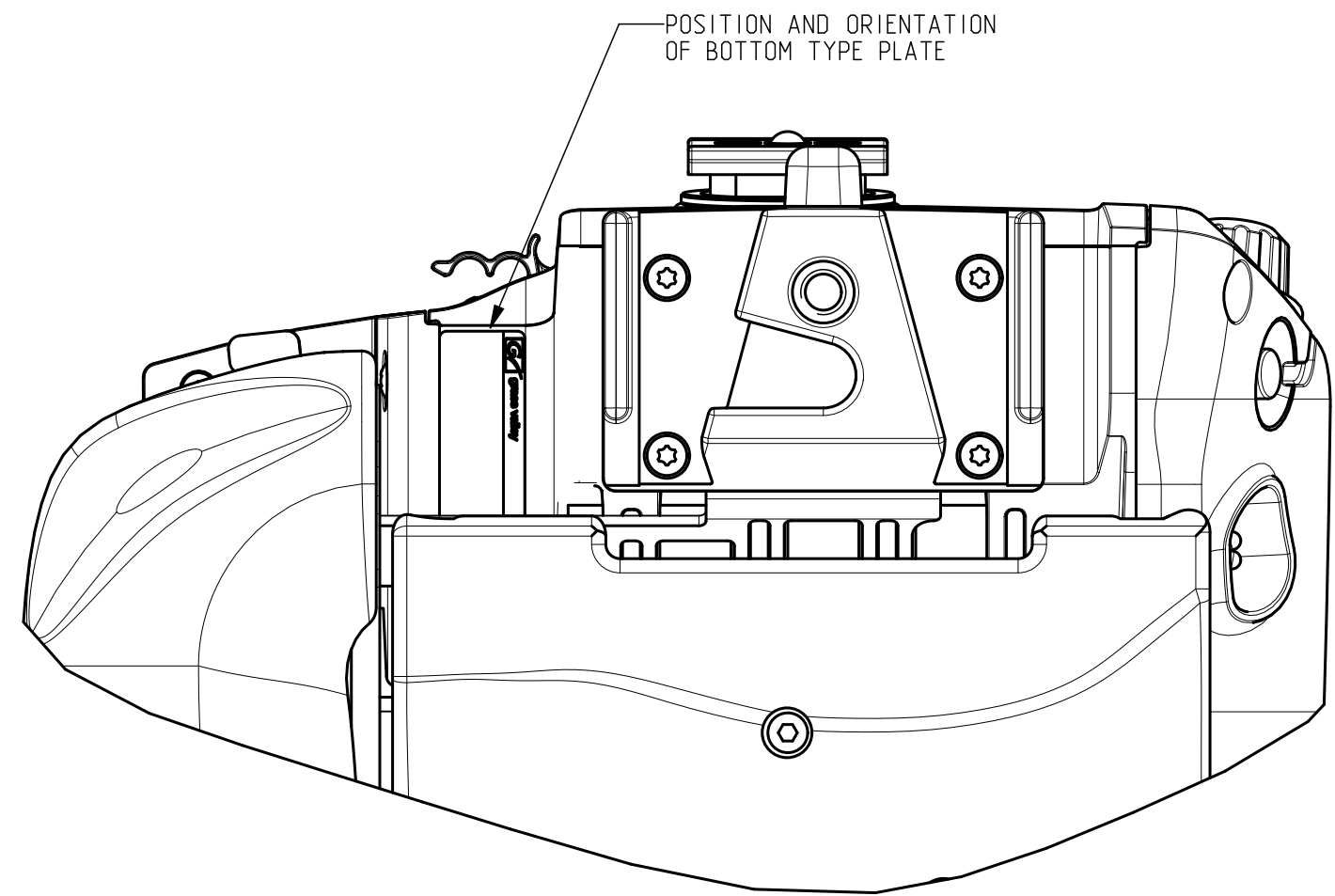
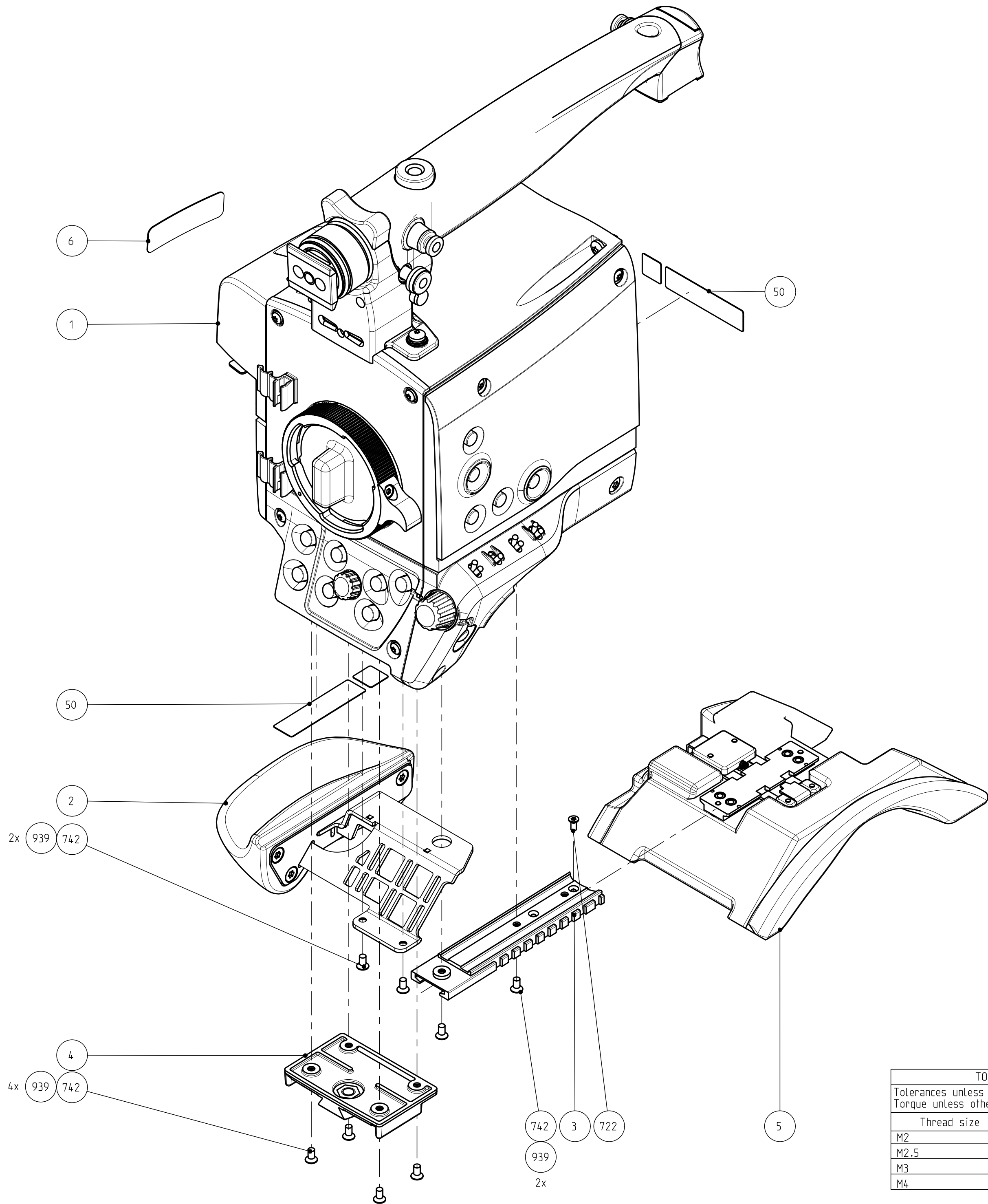
Warnings

- 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.

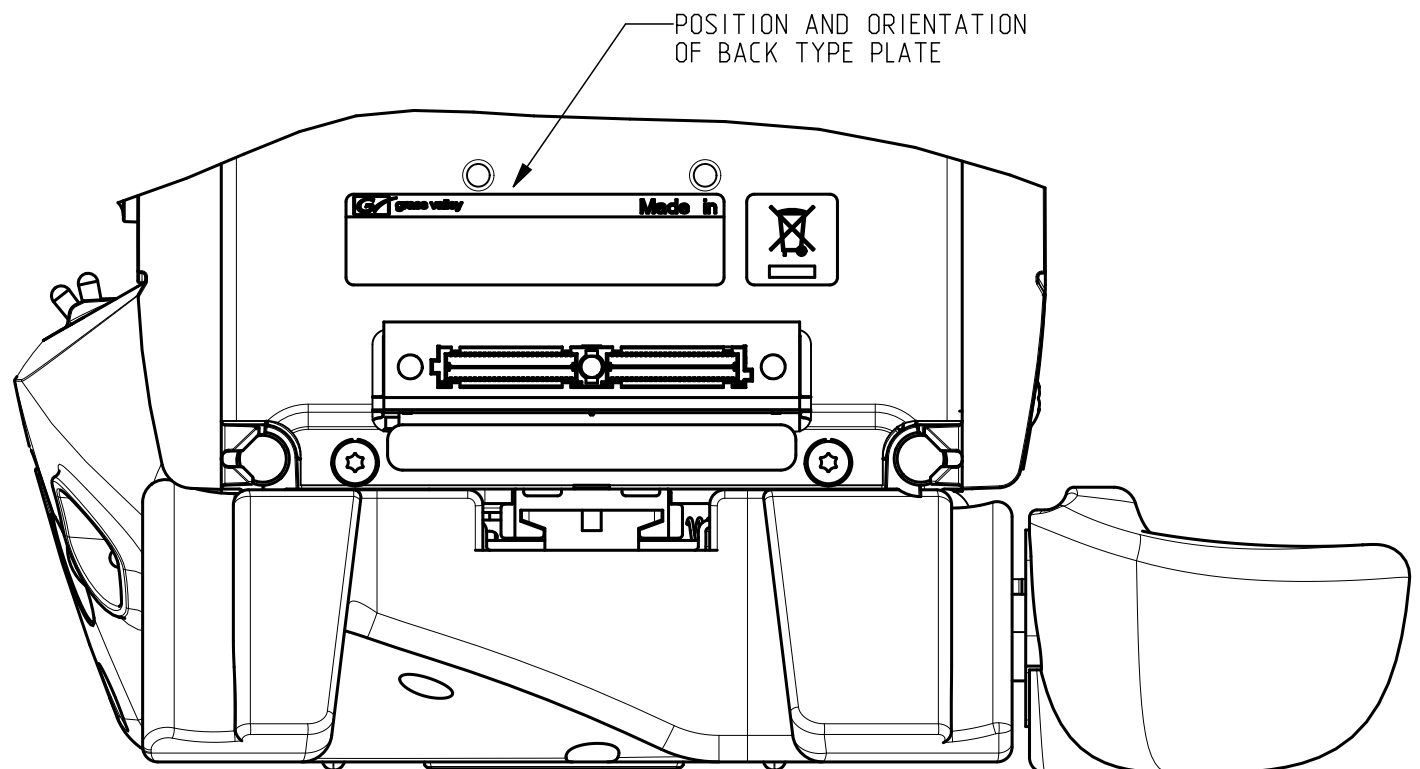
Cautions

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

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SCALE 1:1



SCALE 1:1

 14
06-11

ADDED SHOULDERPAD RELATED ITEMS

ALSO VALID FOR 8926 903 00001

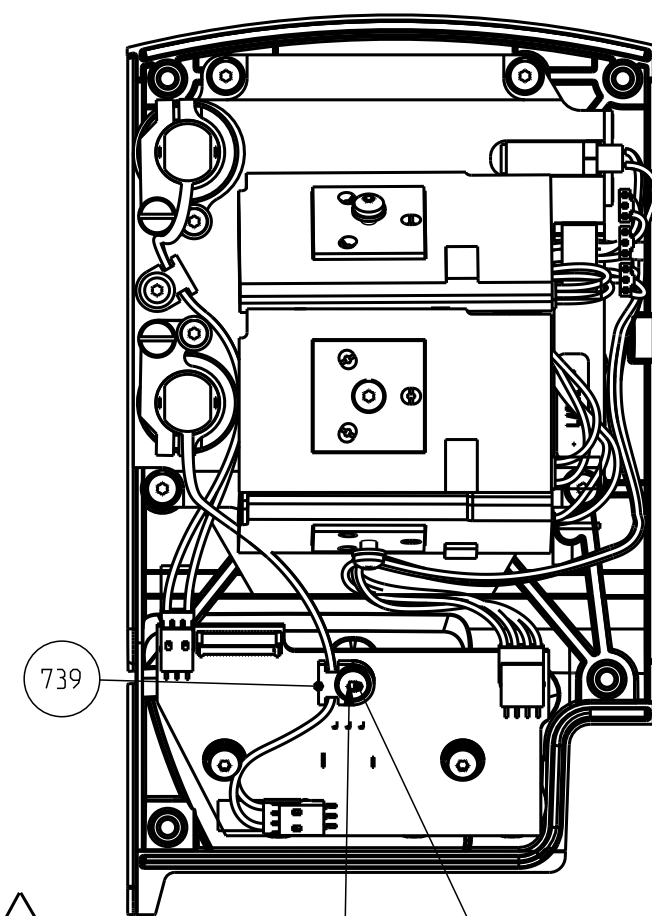
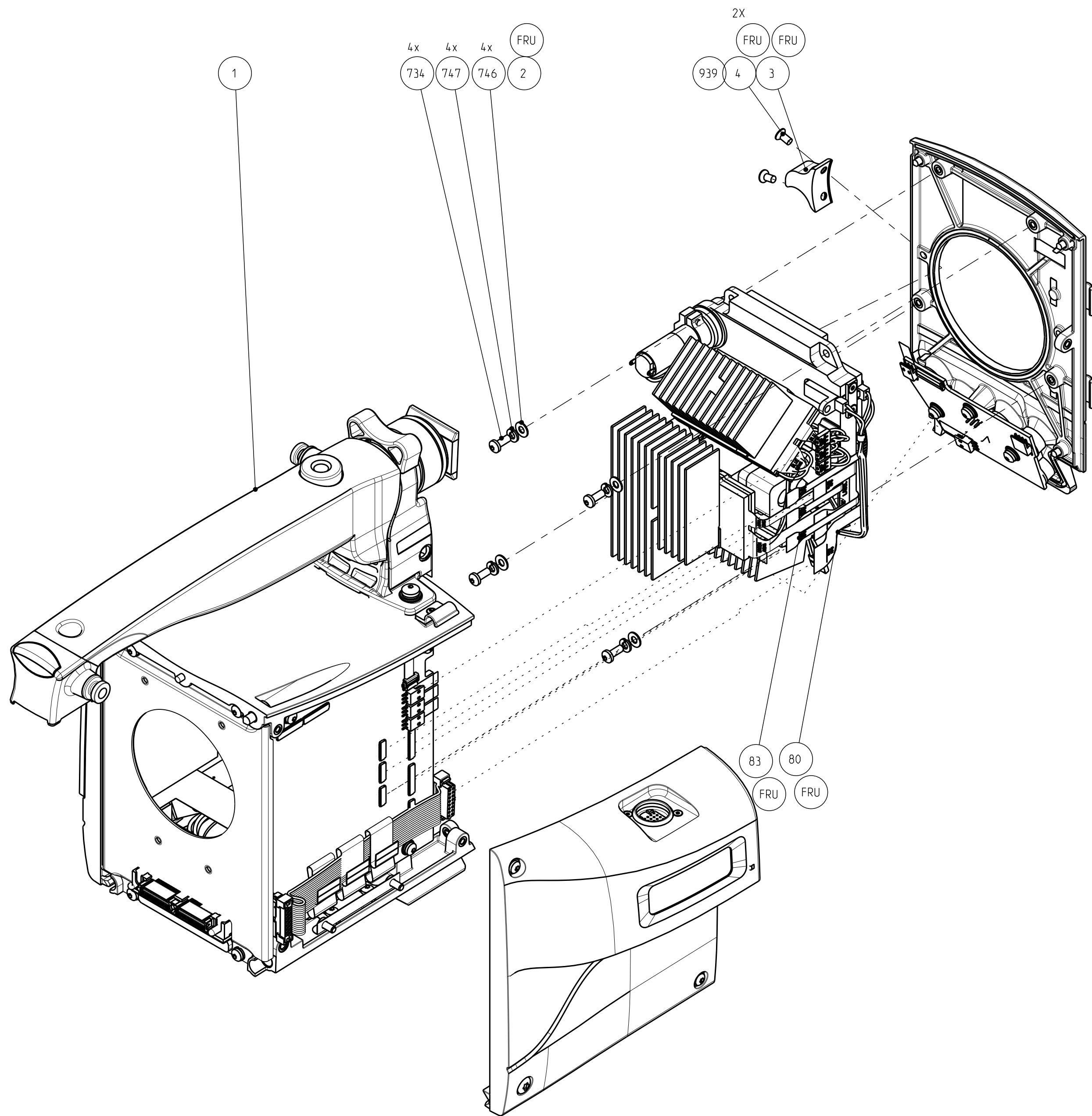
TORQUE TABLE	
Tolerances unless otherwise stated: $\pm 10\%$	
Torque unless otherwise stated:	
Thread size	Torque (Nm)
M2	0.5
M2.5	0.75
M3	1
M4	2

MATERIAL AND FINISHES MUST BE RoHS COMPLIANT		DOCUMENT NUMBER: SHEET:043-01	01	ES	2014-06-11
		8926 906 0000	01	ES	2014-05-08
DESCRIPTION: LDX 86 XTREMESPEED		E. SCHMIT			
GENERAL ROUGHNESS: Ra 3.2 um	IF TOLERANCE AND TOLERANCE TABLE ARE ABSENT THEN APPLY DIM ± 0.2 ANGLE $\pm 1^\circ$	UNIT: mm	SCALE: 7:10	FORMAT: A2	SHEET: 1/1

8926 903 00001 LDX 86 HiSPEED

List of Field Replacable Units (FRUs):

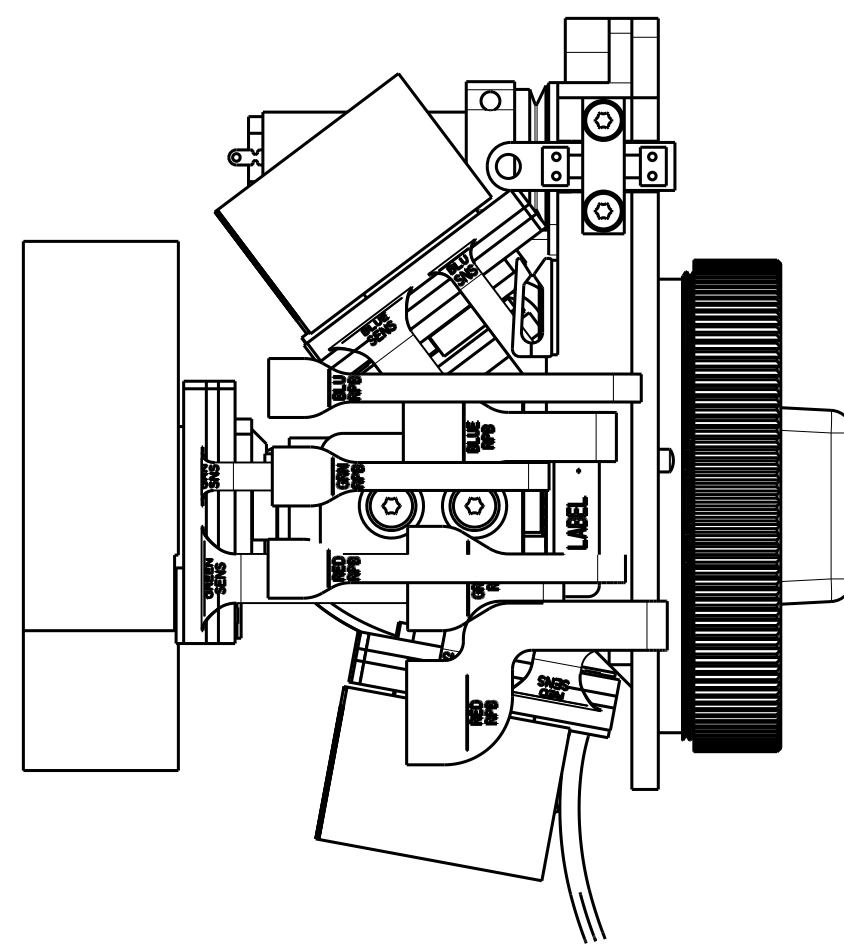
Pos	Part Number	Description
2	510-00006-01	SIDEGRIP ASSY
4	3922 407 57421	V-BLOCK MACHINED
5	510-00009-01	SHOULDERPAD ASSY
722	2522 203 04013	CSK SCR STL ST M2,5x6
742	2522 203 04023	CSK SCR STL ST M3X6



REMOVE EXISTING SCREW AND WASHERS.
PLACE THE CLAMP (POS 739) AS INDICATED.
FIX THE CLAMP USING COUNTERSUNK SCREW (POS 743)

MAKE SURE THE CABLE IS NOT CLAMPED,
BUT RUNS FREELY UNDER POS 739

ORIENTATION OF FLEXES



SCALE 1:1

734 746 747 ARE ALSO FRU

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

MATERIAL AND FINISHES MUST BE RoHS COMPLIANT		DOCUMENT NUMBER: SHEET:043-01	01	ES	2014-06-11
500 00001		01	ES	2014-03-21	E. SCHMIT
DESCRIPTION: GNDLS HEAD LDX86					
GENERAL ROUGHNESS: Ra 3.2 um	IF TOLERANCE AND TOLERANCE TABLE ARE ABSENT THEN APPLY DIM ± 0.2 ANGLE $\pm 1^\circ$	UNIT: mm	SCALE: 7:10	FORMAT: A2	SHEET: 1/1

500-00001-01 GNDLS HEAD LDX86

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
2	500-00003-01	FRONT MODULE CMOS HS
3	3922 404 44031	BAJONET RING GRIP
4	8322 299 71887	CSK SCR STL ST M3X6 BLACK
80	3922 411 57353	PCB F--- HS SPIDERFLEX 45P
83	3922 411 57341	PCB F--- HS SPIDERFLEX 25P
734	2522 201 08032	PAN SCR STL ST M3X8
746	2522 600 27017	WASH STL ST 3,2X7
747	2522 613 12005	SPR WASH STL ST 3,1X5,7

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D C B A

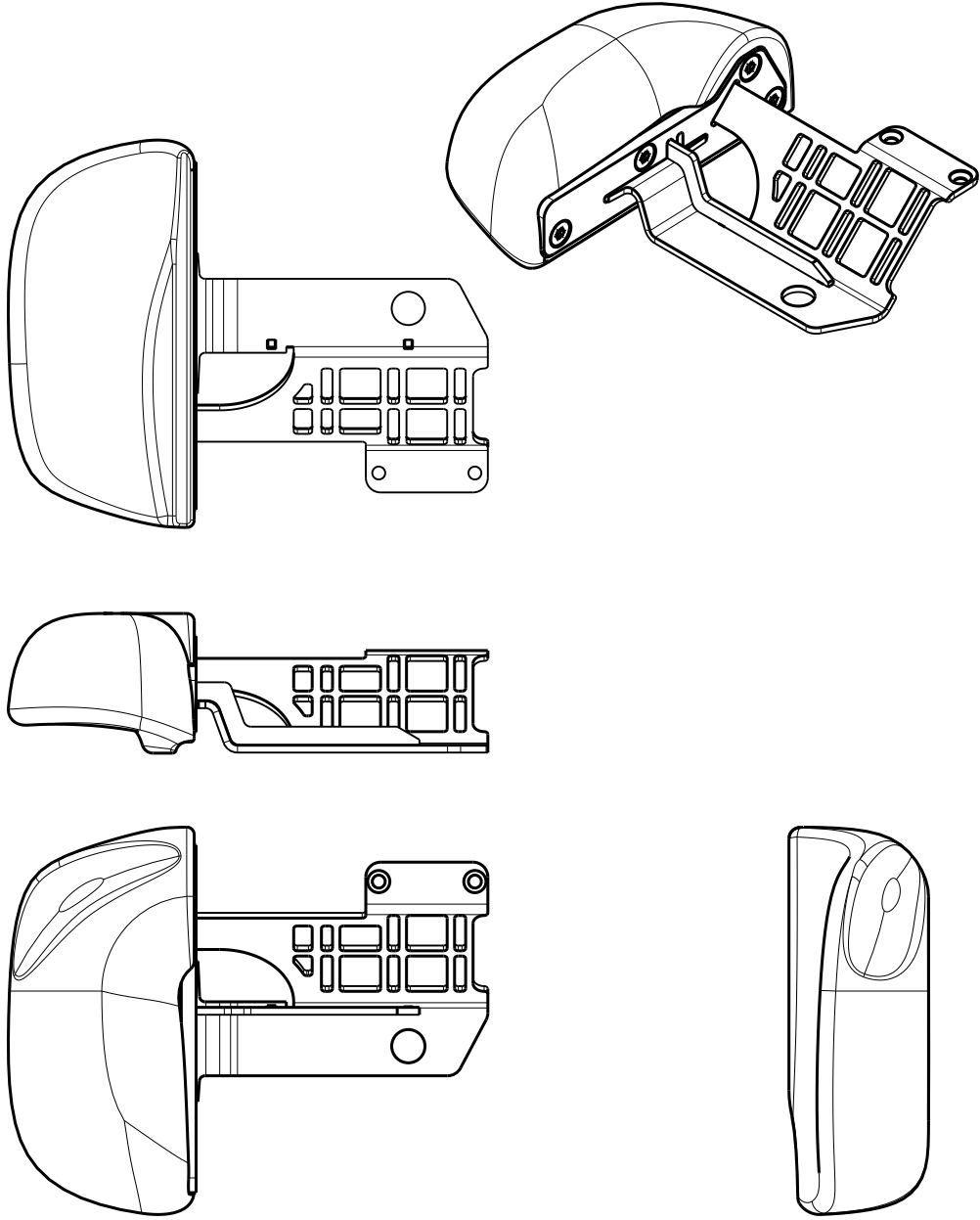
4

4

3

2

1



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

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1		-.-.-
Rev	Name	Date
		SCALE
		1:2

MATERIAL:							
TREATMENT:							
FINISH:							
DRAWN BY:	DATE:	GENERAL ROUGHNESS:	TOLERANCES UNLESS OTHERWISE STATED:				
M. de Waal	2014-05-16	Ra 3.2 n um	DIMENSION:±0,2	ANGLE:	±1°	UNIT	
						mm	

TITLE: **SIDEGRIP ASSY**

	DOCUMENT NUMBER		FORMAT	SHEET
	510-00006		A4	1/2
	RELEASE LEVEL:	...	110-01	.

D I C B I A

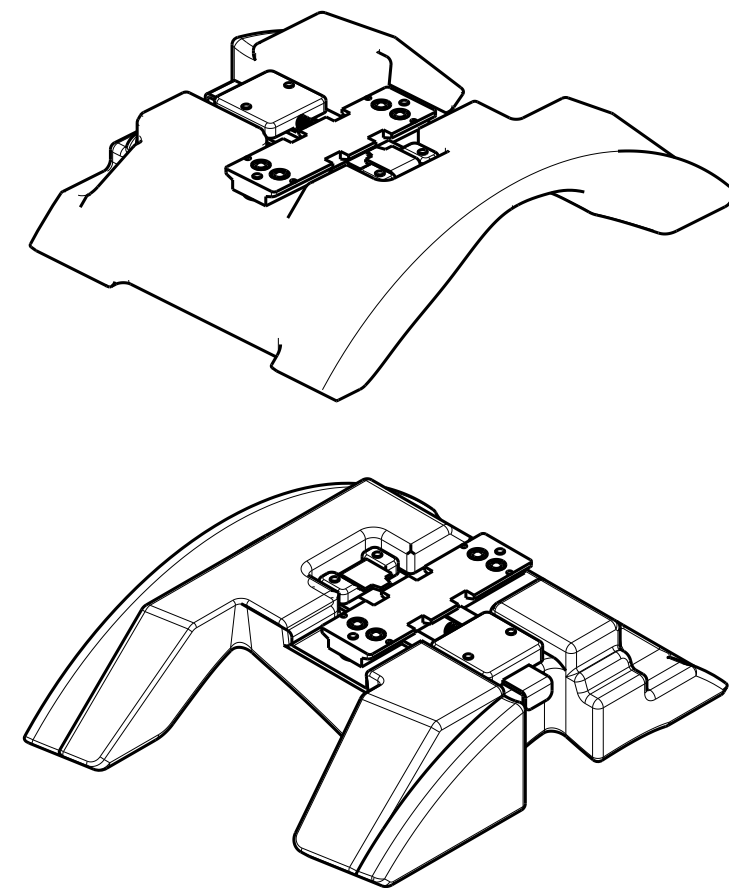
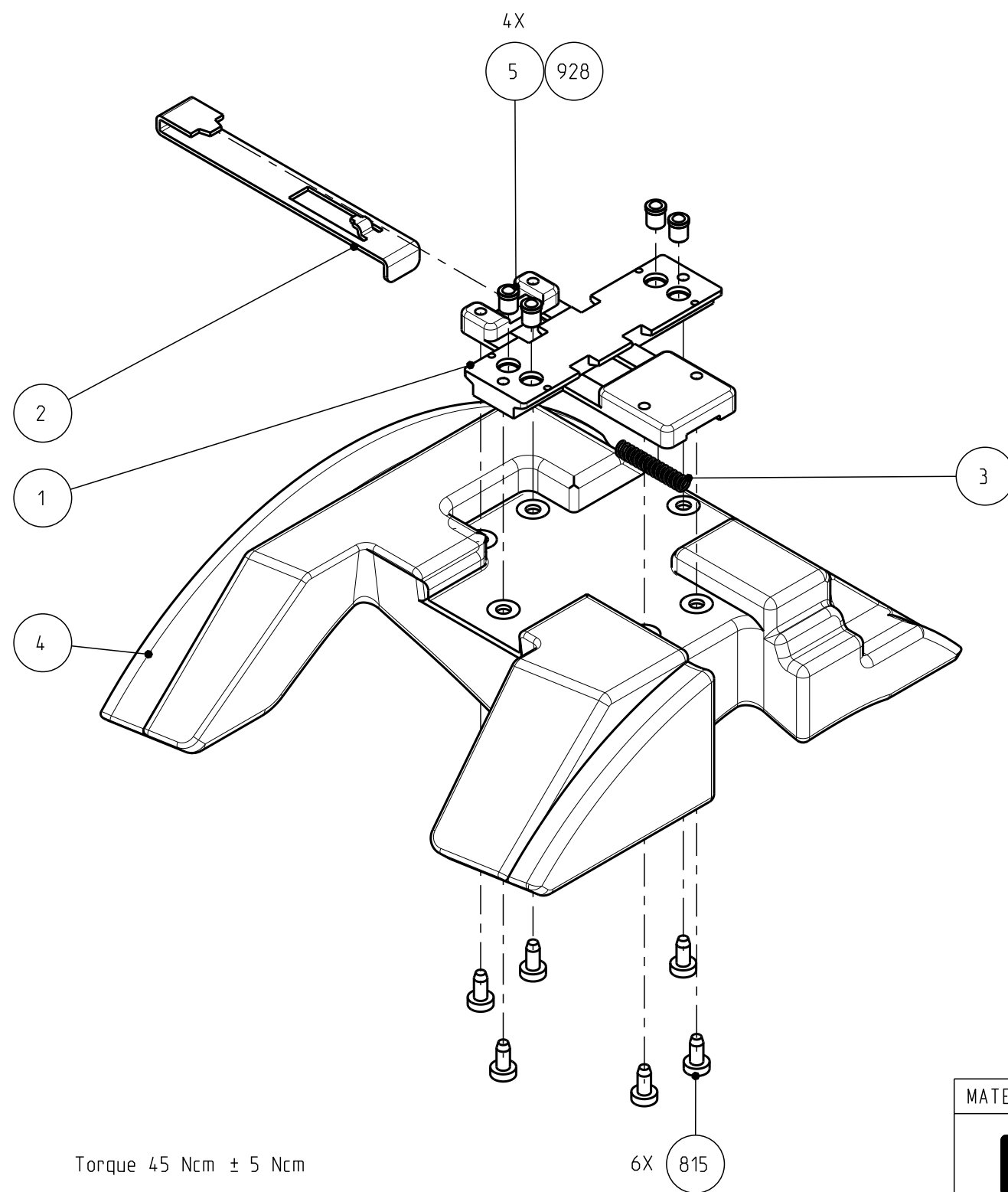
510-00006-01 SIDEGRIP ASSY

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
	510-00006-01	SIDEGRIP ASSY
3	2522 203 04035	CSK SCR STL ST M4X10

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ISOMETRIC VIEWS

MATERIAL AND FINISHES MUST BE RoHS COMPLIANT



DOCUMENT NUMBER: SHEET: 043-01

510-00009

01

MdW 2015-01-28

M. de Waal

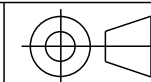
DESCRIPTION:

SHOULDERPAD ASSY

GENERAL ROUGHNESS:
Ra 3.2 um

IF TOLERANCE AND TOLERANCE
TABLE ARE ABSENT THEN APPLY
DIM ±0.2 ANGLE ±1°

UNIT:
mm



SCALE:
4:5

FORMAT:
A3

SHEET:
1/1

Rev:	Name:	Date:
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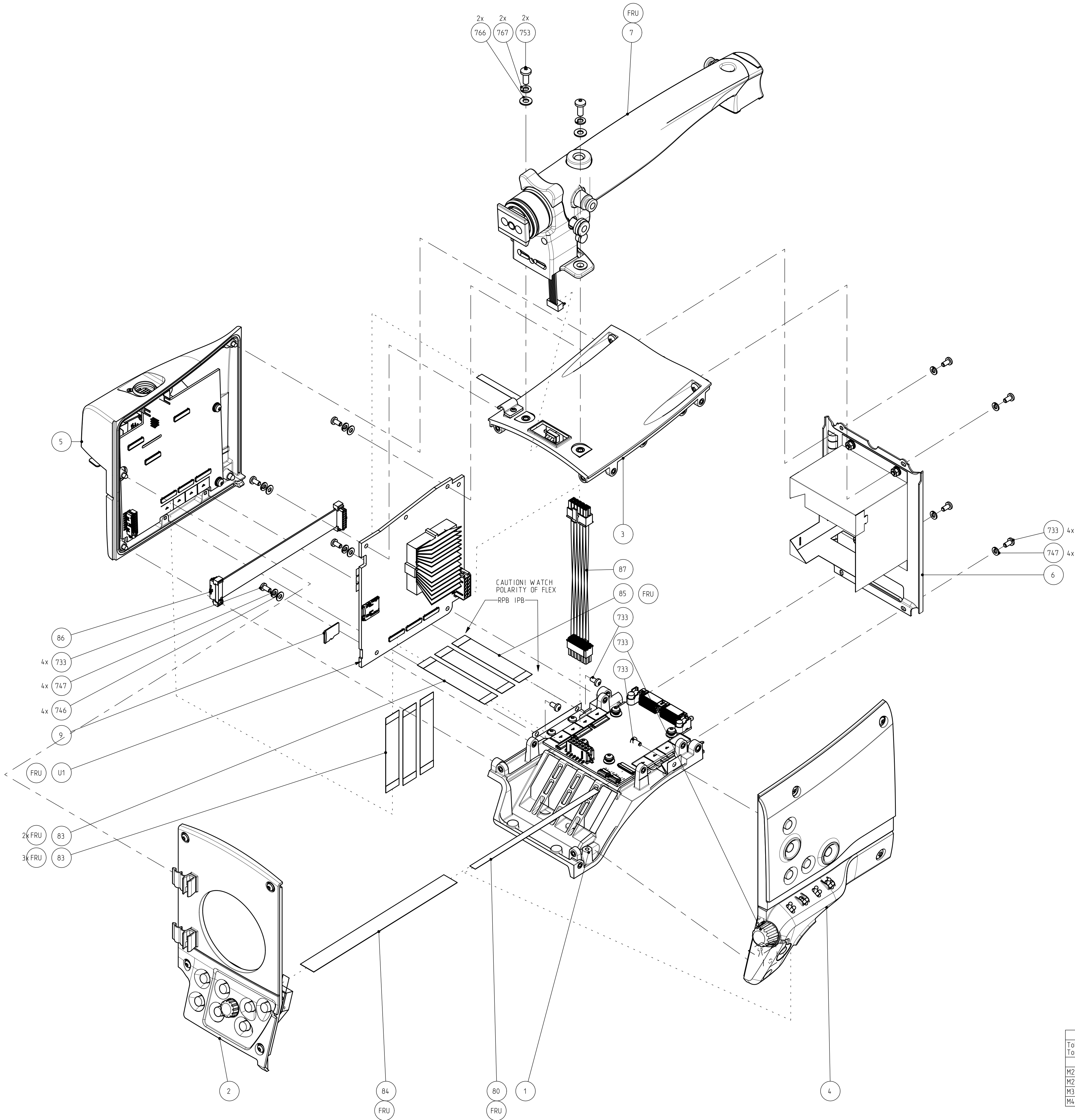
510-00009-01 SHOULDERPAD ASSY

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
	510-00009-01	SHOULDERPAD ASSY
815	2522 202 07005	PAN TAP SCR F ST T8 2,9X6,5

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

14 06-11 MOVED SHOULDERPAD TO HIGHER ASSY

733 746 747 753 766 767 ARE ALSO (FRU)

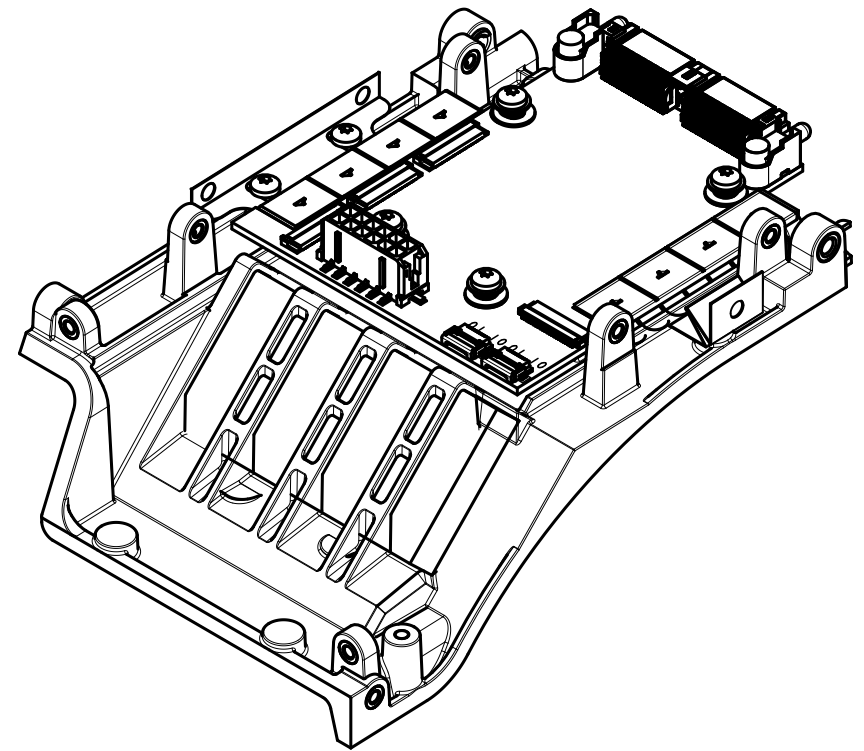
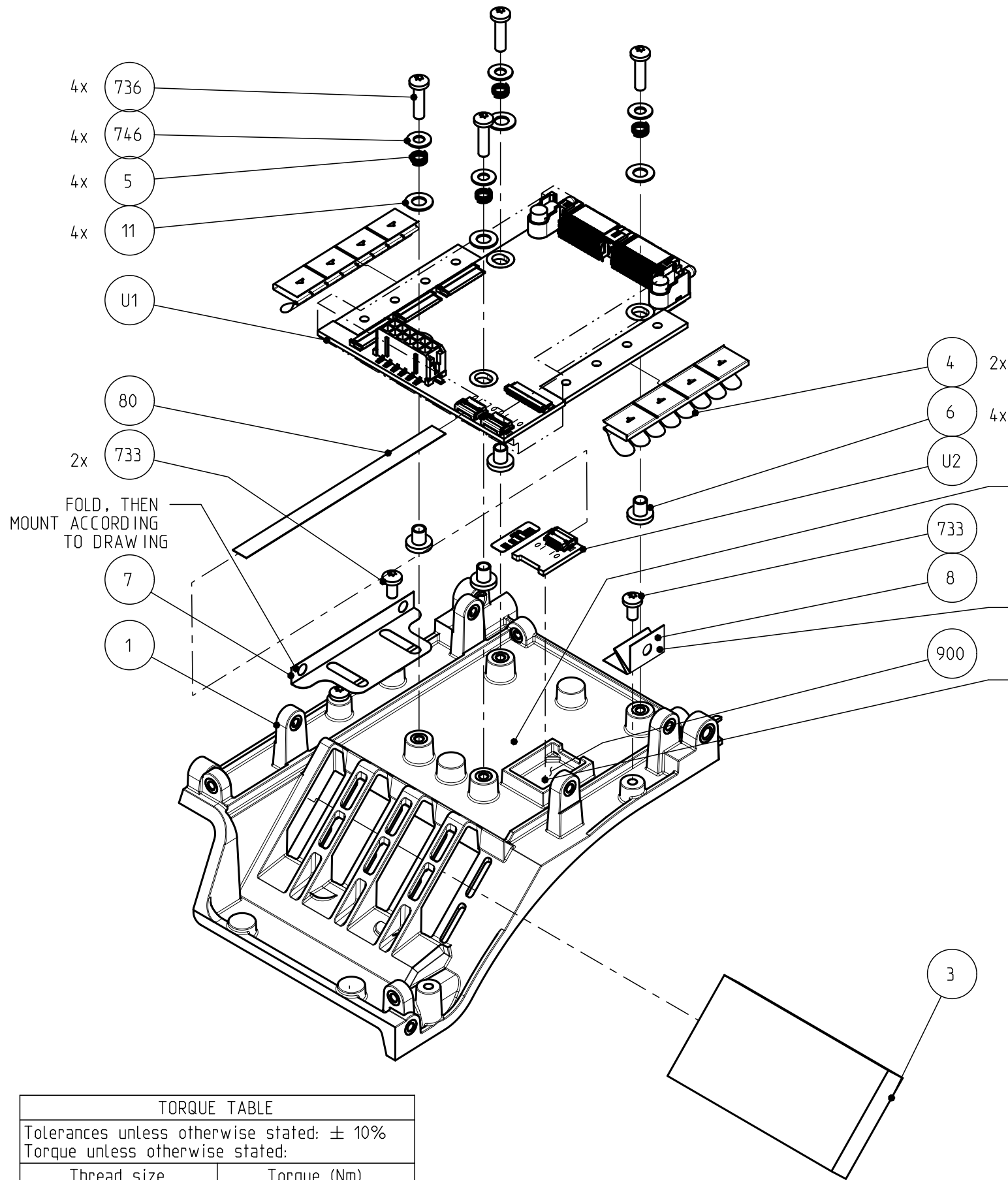
MATERIAL AND FINISHES MUST BE RoHS COMPLIANT				Rev:	Name:	Date:
DOCUMENT NUMBER: SHEET:043-01				01	ES	2014-06-11
500 00002				01	ES	2014-03-21
E. SCHMIT						
DESCRIPTION: CAMERA HEAD BASIC HS						
GENERAL ROUGHNESS: Ra 3.2 um		IF TOLERANCE AND TOLERANCE TABLE ARE ABSENT THEN APPLY DIM ±0.2 ANGLE ±1°		UNIT: mm	SCALE: 7:10	FORMAT: A1
						SHEET: 1/1

500-00002-01 CAMERA HEAD BASIC HS

Pos	Part Number	Description
7	3922 407 40211	DIG.ZOOM HANDGRIP ASSY
80	2422 015 19425	CLB FLEX 10P FFC 0.5 SUMICARD TL=138MM 30V
83	3922 411 57321	PCB F--- GENERIC FPC 45P 0.3MM L=68MM
84	3922 411 56801	PCB F--- FPC 45P 0.3MM TL=160MM
85	3922 411 56752	PCB FIB- FLEX 45P 0.3 PITCH TL 68MM
733	2522 201 08031	PAN SCR STL ST M3X6
746	2522 600 27017	WASH STL ST 3,2X7
747	2522 613 12005	SPR WASH STL ST 3,1X5,7
753	2522 201 08049	PAN SCR STL ST M4X10
766	2522 600 27026	WASH STL ST 4,3X9
767	2522 613 12009	SPR WASH STL ST 4,1X7,1
U1	3922 406 57251	PCBA HS RPB

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REMOVED SHOULDERPAD RELATED
ITEMS. THE SHOULDERPAD IS MOVED
TO A HIGHER ASSEMBLY LEVEL

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

MATERIAL:						SCALE
TREATMENT:						7:10
FINISH:	....					
DRAWN BY:	DATE:	GENERAL ROUGHNESS:	TOLERANCES UNLESS OTHERWISE STATED:			UNIT
M. DE WAAL	2014-04-04	Ra 3.2 n um	DIMENSION:±	ANGLE: ±°			mm
TITLE:	BOTTOM PLATE ASSY					
		DOCUMENT NUMBER		FORMAT	SHEET	
		3922 407 5580		A3	1/1	
		RELEASE LEVEL:		110-01	120	

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

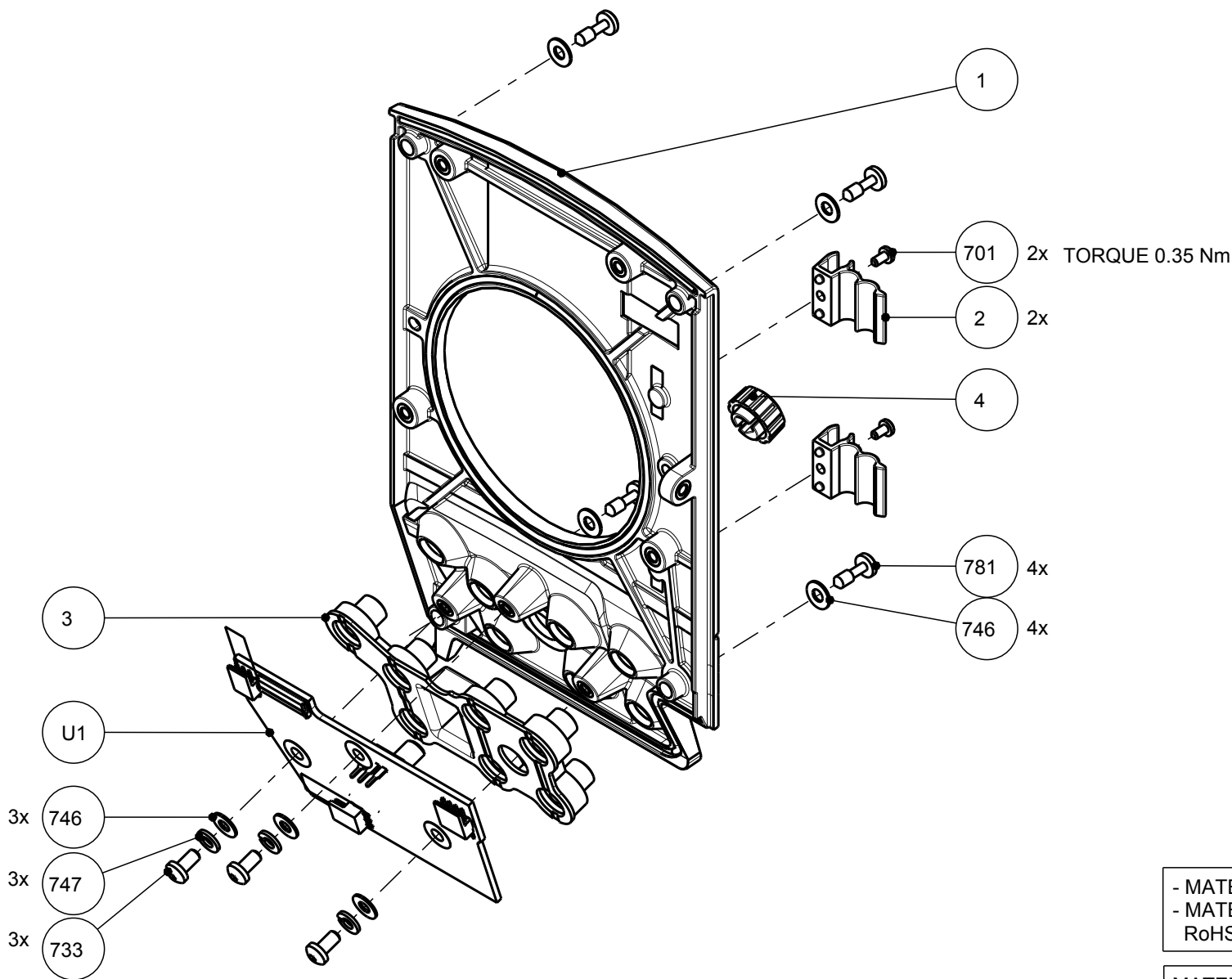
3922 407 55801 BOTTOM PLATE ASSY

List of Field Replacable Units (FRUs):

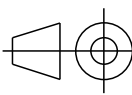
Pos	Part Number	Description
4	3922 407 62301	EMC MATERIAL CLIP-ON
5	3922 203 00273	SPR CMP 4.57 X 6.35 0.53 NMM STL ST
6	3922 203 00130	SLV REG PA 7.5 x 3.1 312 0838 599 35
7	3922 405 08092	RIGHT COVER STRAIN RELIEF
8	3922 405 08103	LEFT COVER STRAIN RELIEF
11	3922 203 00303	WSH PLN 8x4.1x0.5 PA
80	2422 015 18547	CLB FLEX 10P FFC 0.5 SUMICARD TL=78MM 30V
733	2522 201 08031	PAN SCR STL ST M3X6
736	2522 201 08034	PAN SCR STL ST M3X12
746	2522 600 27017	WASH STL ST 3,2X7
U1	3922 406 56001	INTERCON. POWER BRD

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

MATERIAL:	....					SCALE
TREATMENT:	....					7:10
FINISH:	....					
DRAWN BY:	DATE:	GENERAL ROUGHNESS	TOLERANCES UNLESS OTHERWISE STATED:			UNIT
E. SCHMIT	2011-11-18	Ra 3.2 n um	DIMENSION:±0,2	ANGLE: ±1°			mm
TITLE:		FRONT PLATE ASSY				
 grass valley		DOCUMENT NUMBER			FORMAT	SHEET
		3922 407 5581			A3	1/1
		RELEASE LEVEL:			110-01	120

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

3922 407 55811 FRONT PLATE ASSY

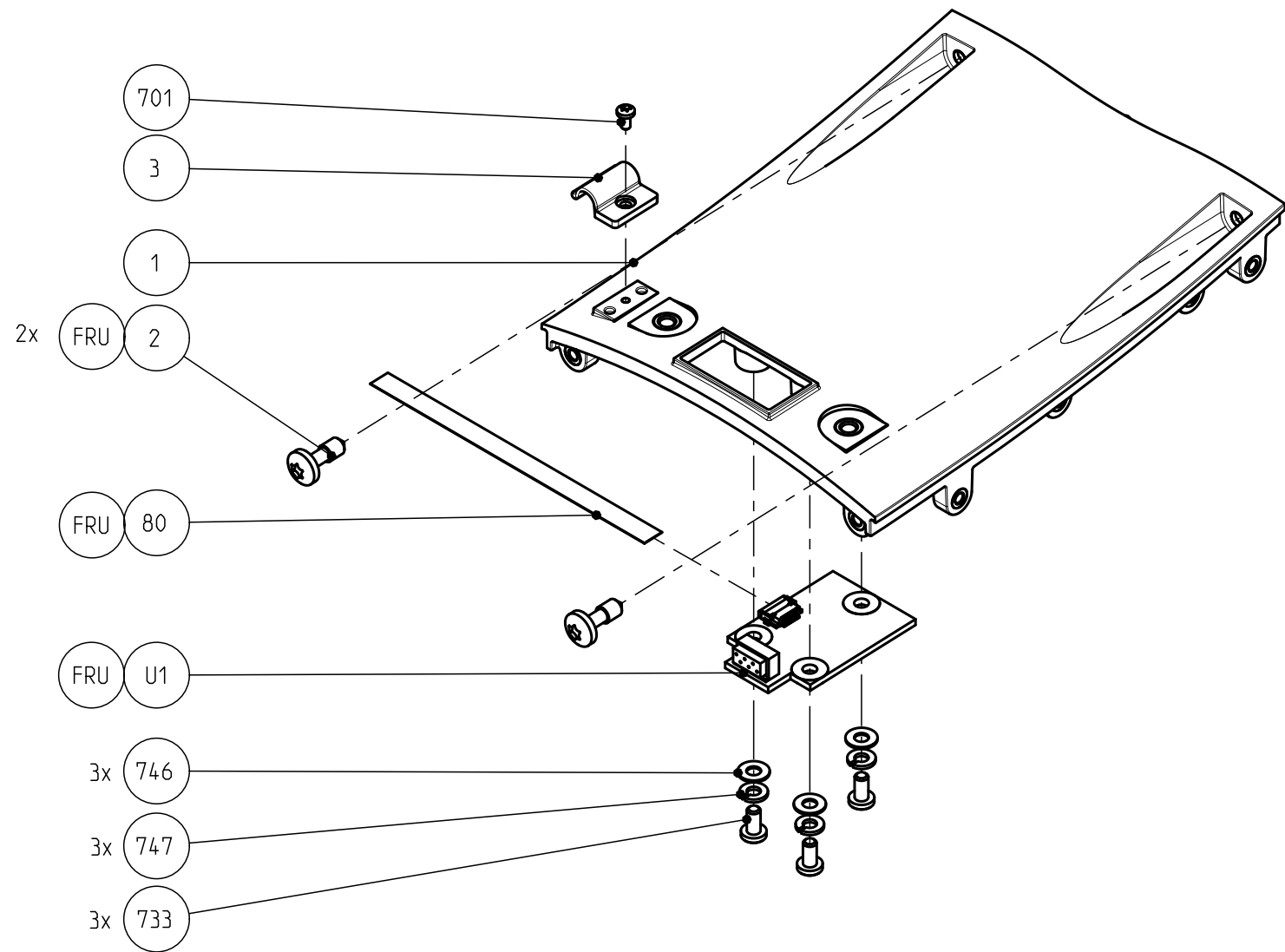
List of Field Replacable Units (FRUs):

Pos	Part Number	Description
2	3922 400 10041	CABLECLAMP
4	3922 400 11642	VOLUME KNOB
733	2522 201 08031	PAN SCR STL ST M3X6
746	2522 600 27017	WASH STL ST 3,2X7
747	2522 613 12005	SPR WASH STL ST 3,1X5,7
781	2522 200 03024	PAN CAP SCR STL.ST M3x10
U1	3922 406 55981	FRONT SWITCH PANEL

Maintenance Manual

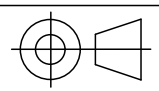
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4



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

733 746 747 ARE ALSO (FRU)

MATERIAL AND FINISHES MUST BE RoHS COMPLIANT				.	....	....-..-..
 grass valley		DOCUMENT NUMBER:	SHEET:043-01	1	....	....-..-..
		500 00006		01	ES	2014-03-24
					E. SCHMIT	
DESCRIPTION:	TOP PLATE ASSY					
GENERAL ROUGHNESS: Ra 3.2 um	IF TOLERANCE AND TOLERANCE TABLE ARE ABSENT THEN APPLY DIM ±0.2 ANGLE ±1°	UNIT: mm		SCALE: 7:10	FORMAT: A3	SHEET: 1/1

Rev:	Name:	Date:
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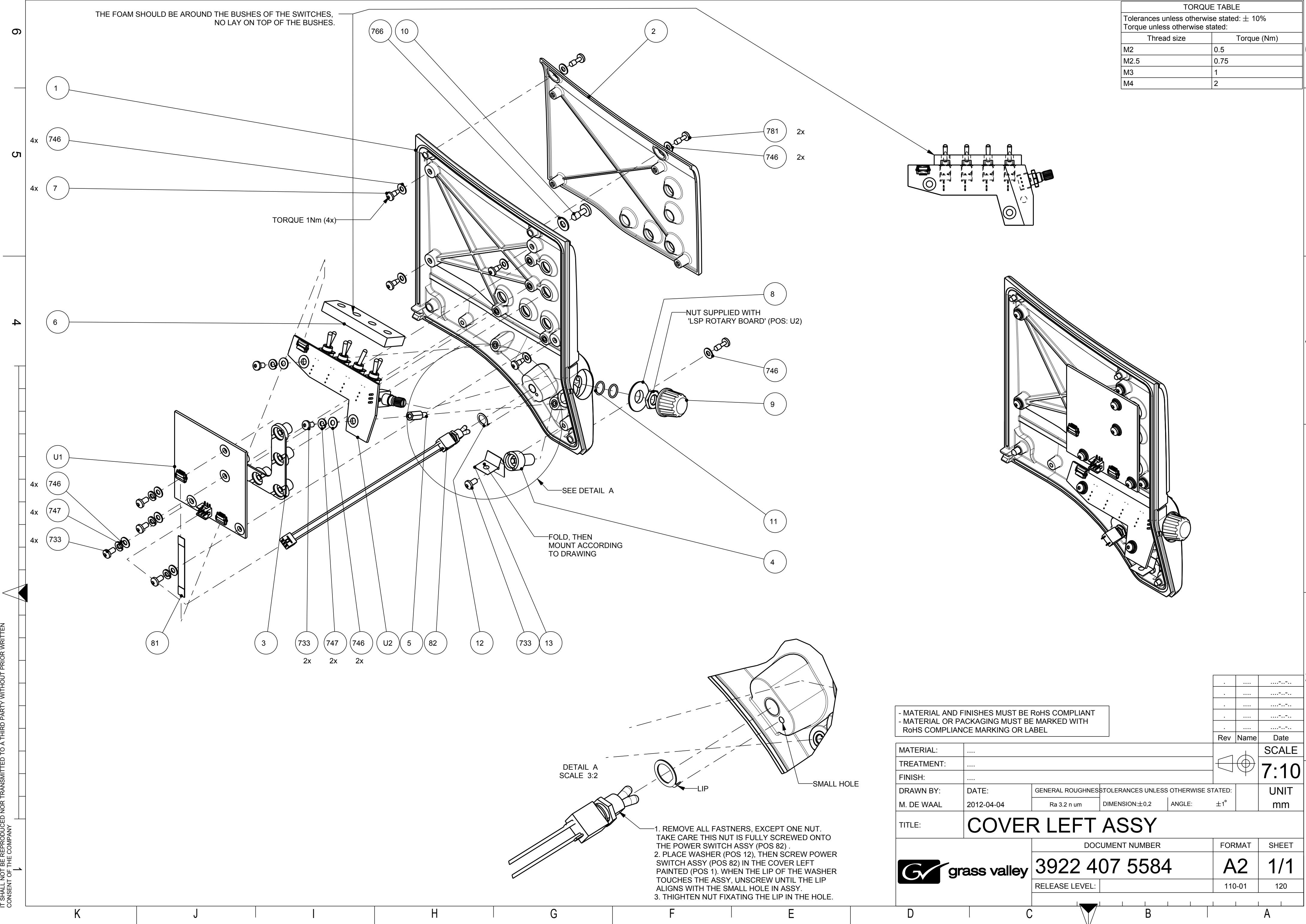
500-00006-01 TOP PLATE ASSY

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
2	2522 200 03032	PAN CAP SCR STL.ST M4x12
80	2422 015 18547	CLB FLEX 10P FFC 0.5 SUMICARD TL=78MM 30V
733	2522 201 08031	PAN SCR STL ST M3X6
746	2522 600 27017	WASH STL ST 3,2X7
747	2522 613 12005	SPR WASH STL ST 3,1X5,7
U1	3922 406 56021	PCBA Handgrip IF Board

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



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

MATERIAL:	....	Rev	Name	Date	SCALE
TREATMENT:	....				7:10
FINISH:	....				UNIT
DRAWN BY:	DATE:	GENERAL ROUGHNESS	TOLERANCES UNLESS OTHERWISE STATED:		mm
M. DE WAAL	2012-04-04	Ra 3.2 n um	DIMENSION: $\pm 0,2$	ANGLE: $\pm 1^\circ$	
TITLE:	COVER LEFT ASSY				
		DOCUMENT NUMBER		FORMAT	SHEET
		3922 407 5584		A2	1/1
		RELEASE LEVEL:		110-01	120

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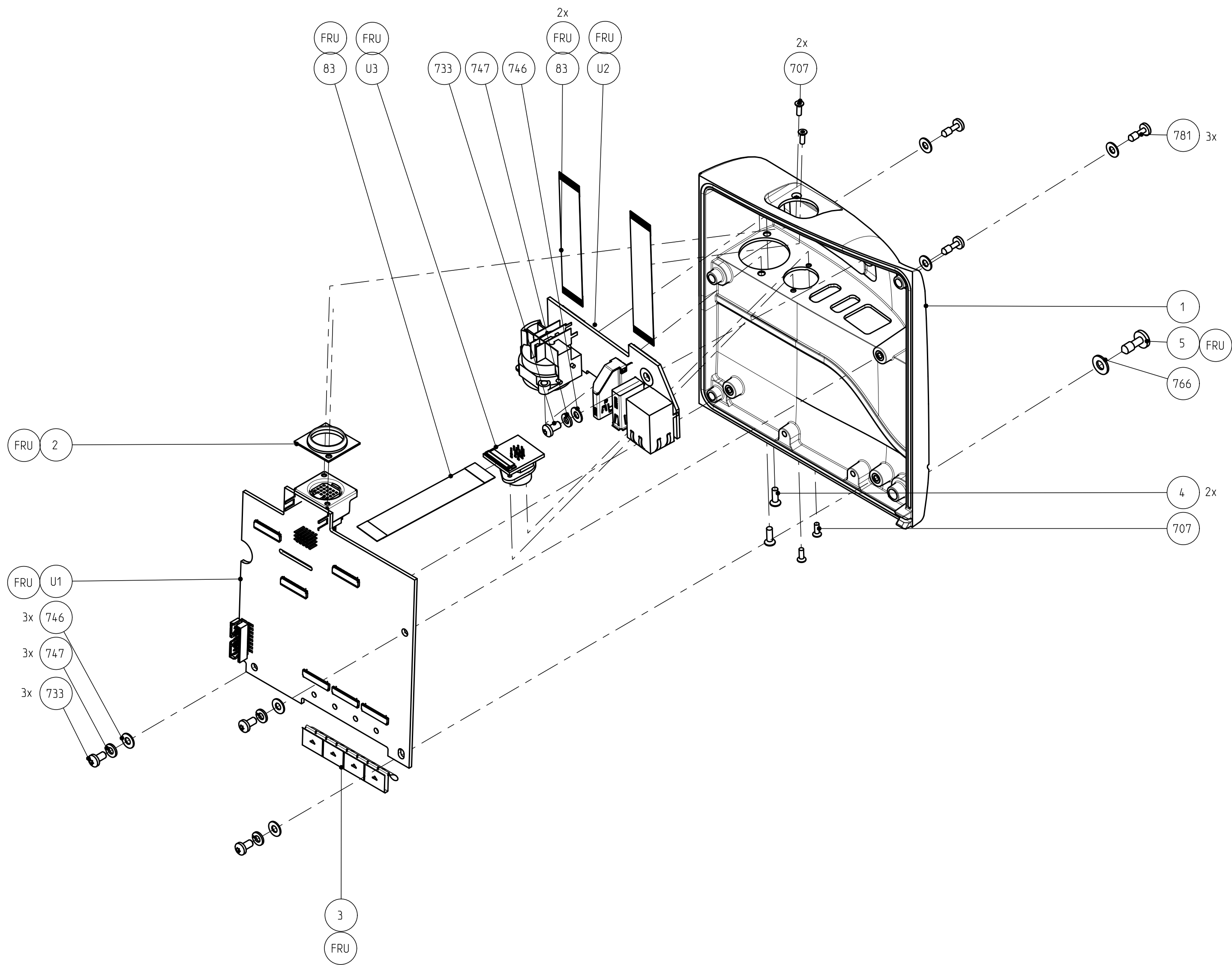
3922 407 55841 COVER LEFT ASSY

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
9	3922 400 11651	ROTARY KNOB
10	2522 200 03032	PAN CAP SCR STL.ST M4x12
13	3922 405 08103	LEFT COVER STRAIN RELIEF
U1	3922 406 55991	PCBA LSP BOARD
U2	3922 406 56141	PCBA LSP Rotary Board
81	3922 205 00005	CLB FLEX 10P FFC 0.5 SUMICARD TL=46MM 30V
82	3922 407 26063	POWER SWITCH ASSY
733	2522 201 08031	PAN SCR STL ST M3X6
746	2522 600 27017	WASH STL ST 3,2X7
747	2522 613 12005	SPR WASH STL ST 3,1X5,7
766	2522 600 27026	WASH STL ST 4,3X9
781	2522 200 03024	PAN CAP SCR STL.ST M3x10

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733 746 747 766 781 ARE ALSO FRU

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

MATERIAL AND FINISHES MUST BE RoHS COMPLIANT			
		DOCUMENT NUMBER:	SHEET:043-01
		50 00004	01
DESCRIPTION:		COVER RIGHT ASSY	
GENERAL ROUGHNESS:	IF TOLERANCE AND TOLERANCE TABLE ARE ABSENT THEN APPLY	UNIT:	SCALE:
Ra 3.2 um	DIM ± 0.2 ANGLE $\pm 1^\circ$	mm	7:10
		FORMAT:	SHEET:
		A2	1/1

Rev:	Name:	Date:
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ES	2014-05-08	
E. SCHMIT		

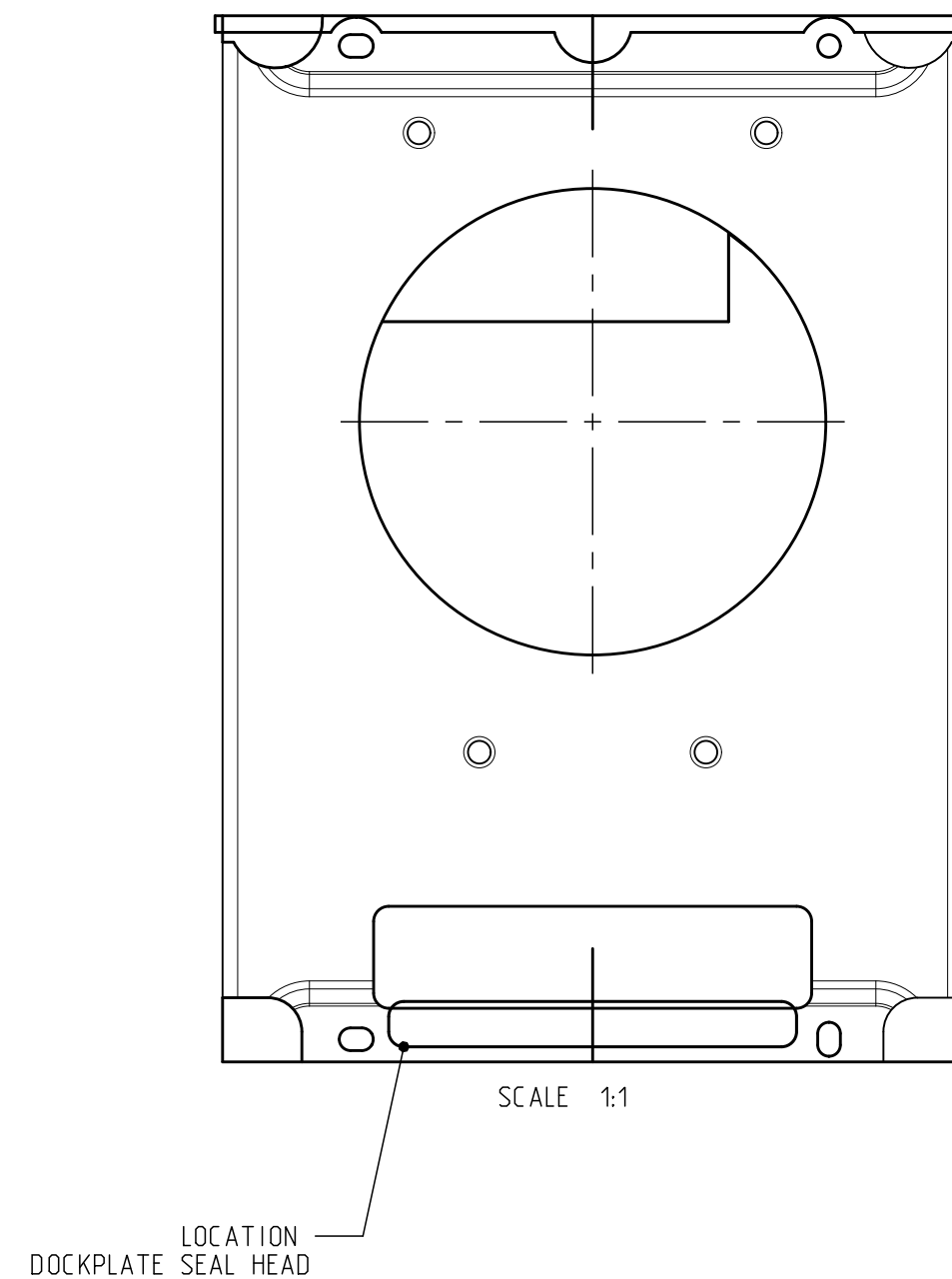
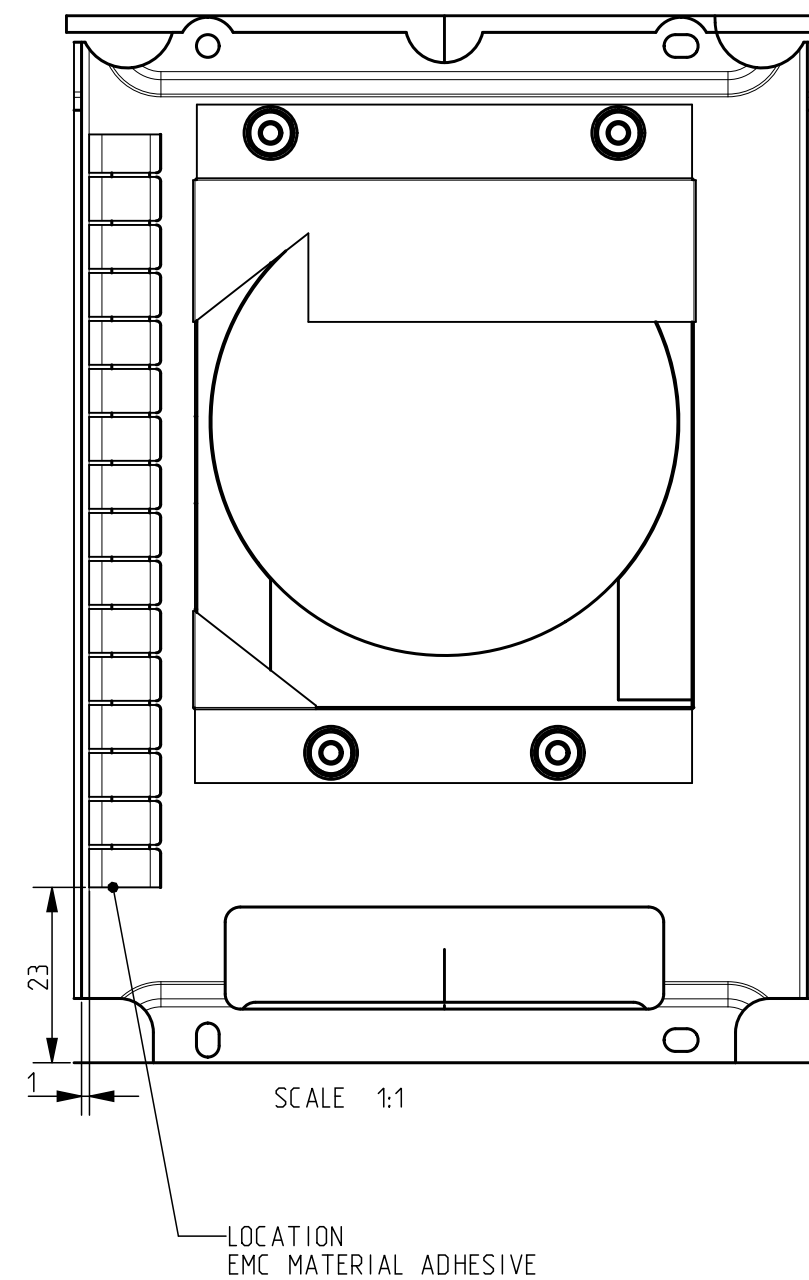
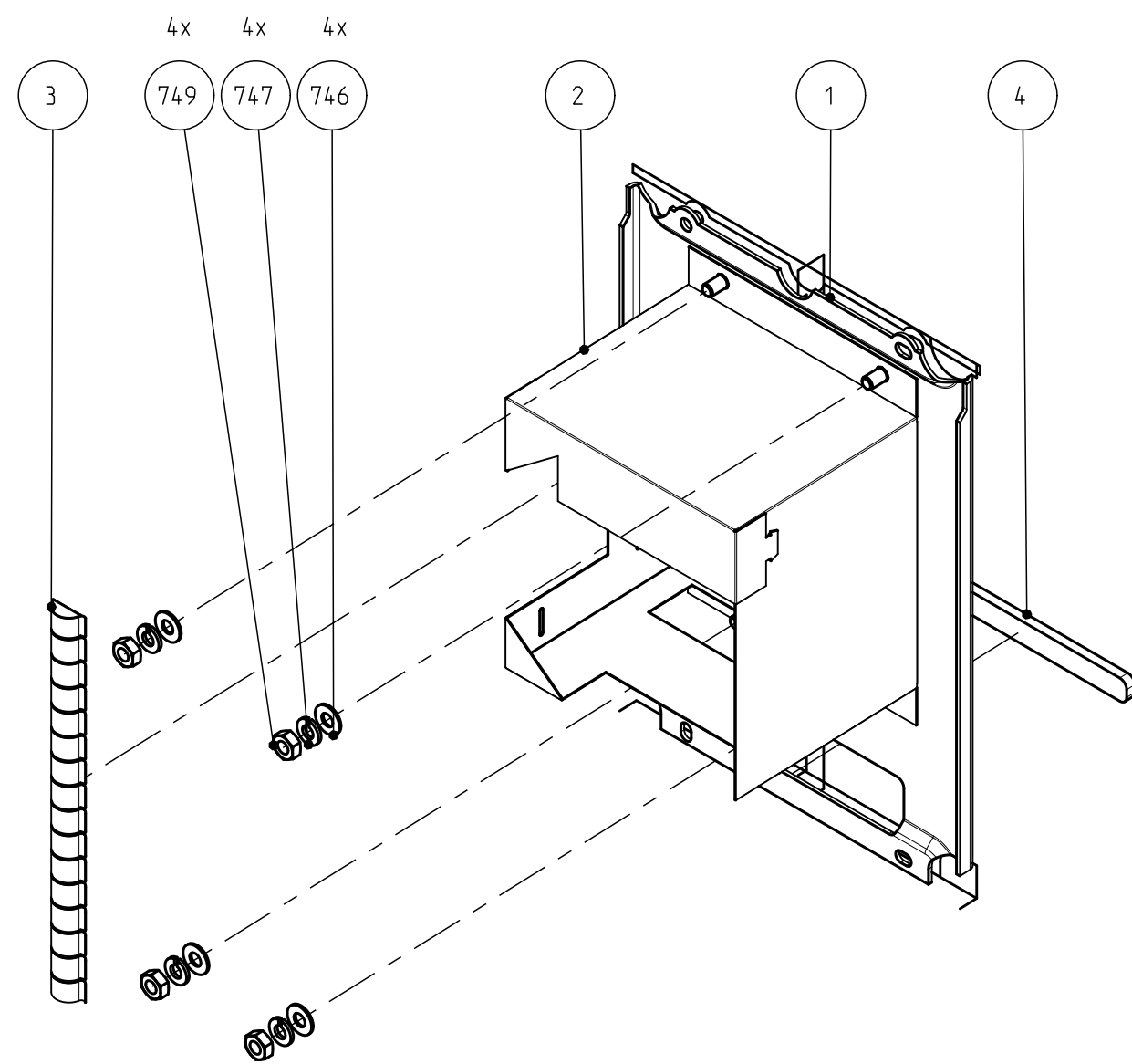
500-00004-01 COVER RIGHT ASSY

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
2	3922 400 08501	SEALING VF-CONNECTOR
3	3922 407 62301	EMC MATERIAL CLIP-ON
5	2522 200 03032	PAN CAP SCR STL.ST M4x12
83	3922 411 57321	PCB F--- GENERIC FPC 45P 0.3MM L=68MM
733	2522 201 08031	PAN SCR STL ST M3X6
746	2522 600 27017	WASH STL ST 3,2X7
747	2522 613 12005	SPR WASH STL ST 3,1X5,7
766	2522 600 27026	WASH STL ST 4,3X9
781	2522 200 03024	PAN CAP SCR STL.ST M3x10
U1	3922 406 57271	PCBA HS RCB
U2	3922 406 57401	PCBA HS HDMI AND MIC BOARD
U3	3922 406 56331	PCBA Lens and RS232 Board

Maintenance Manual

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CONSENT OF THE COMPANY



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

746 747 749 ARE FRU

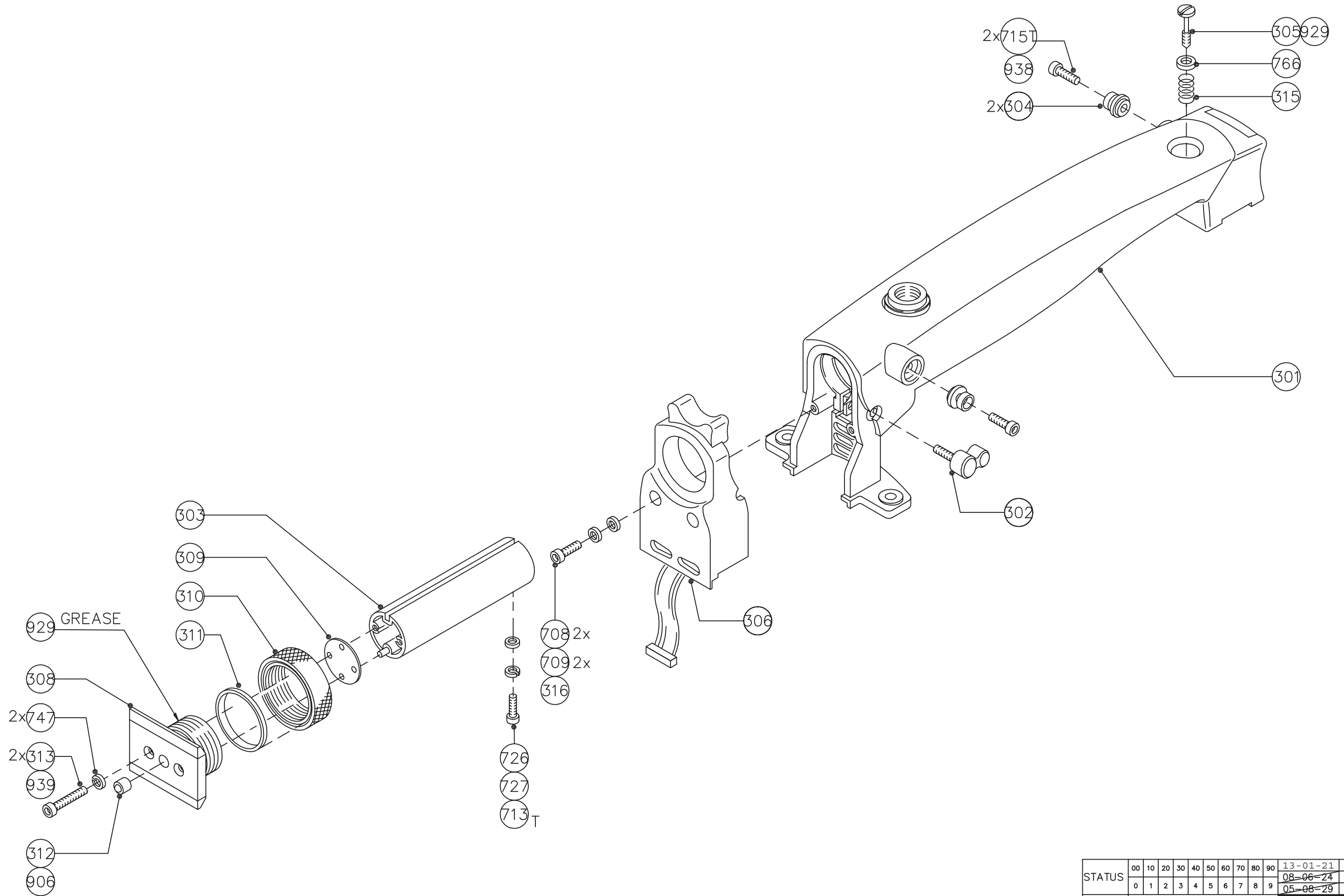
MATERIAL AND FINISHES MUST BE RoHS COMPLIANT		DOCUMENT NUMBER: SHEET:043-01	1	Rev:	Name:	Date:
		500 00005		.	....	....-..-..
				.		-..-..
				.		-..-..
DESCRIPTION: DOCKINGPLATE ASSY		01		ES	2013-03-24	E. SCHMIT
GENERAL ROUGHNESS: Ra 3.2 um	IF TOLERANCE AND TOLERANCE TABLE ARE ABSENT THEN APPLY DIM ± 0.2 ANGLE $\pm 1^\circ$	UNIT: mm	SCALE: 7:10	FORMAT: A2	SHEET: 1/1	

500-00005-01 DOCKINGPLATE ASSY

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
746	2522 600 27017	WASH STL ST 3,2X7
747	2522 613 12005	SPR WASH STL ST 3,1X5,7
749	2522 401 09008	HEX NUT STL ST M3

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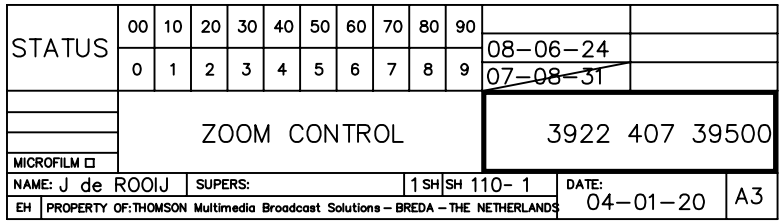
STATUS	00	10	20	30	40	50	60	70	80	90	13-01-21		
											08-06-24		
	0	1	2	3	4	5	6	7	8	9	05-08-29		
	ZOOM HAND GRIP ASSY										3922 407 40210		
MICROFILM ☐													
NAME: J de ROOIJ										1 SH SH 110- 1		DATE: 04-01-20	A3
EH PROPERTY OF: THOMSON Multimedia Broadcast Solutions - BREDA - THE NETHERLANDS													

3922 407 40211 DIG.ZOOM HANDGRIP ASSY

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
	3922 407 40211	DIG.ZOOM HANDGRIP ASSY
766	2522 600 27026	WASH STL ST 4,3X9
726	2522 600 27137	WASH STL ST 2,7X6,5
708	2522 600 27151	WASH STL ST 2,2X5
709	2522 613 12001	SPR WASH STL ST 2,1X4.4
747	2522 613 12005	SPR WASH STL ST 3,1X5,7
727	2522 613 12063	SPR WASH STL ST 2,6X5,1
312	2622 890 12077	SPRING LOADED BALL BUSH
311	3922 401 47881	VF-RING
304	3922 404 20073	BUSH
309	3922 404 21211	DISC
310	3922 404 22991	VF-NUT-LONG
308	3922 407 24012	VF SCREW LONG ASSY
301	3922 407 25346	HANDGRIP ASSY
302	3922 407 25553	CLAMPBOLT
316	3922 407 29211	TORX SCREW M2X16
313	3922 407 29221	TORX SCREW M3X25
303	3922 407 32581	VF PIPE LDK100
306	3922 407 39502	ZOOMCONTROL ASSY

Maintenance Manual



3922 407 39502 ZOOMCONTROL ASSY

List of Field Replacable Units (FRUs):

Pos	Part Number	Description
	3922 407 39502	ZOOMCONTROL ASSY
15	2522 201 08007	PAN SCR STL ST M2X12
708	2522 600 27151	WASH STL ST 2,2X5
2	3922 400 08713	ZOOMKNOB

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