



LDX100

LIVE PRODUCTION CAMERA

Maintenance Manual

13-00109-000 V1.0

2021-2-19

www.grassvalley.com

FCC Compliance

In order to comply with FCC/CFR47: Part 15 regulations, it is necessary to use high-quality, triple-screened Media or Monitor cable assemblies with integrated ferrite suppression at both ends.

Patent Information

This product may be protected by one or more patents.

For further information, please visit: www.grassvalley.com/patents/

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Warranty information is available from the Legal Terms and Conditions section of Grass Valley's website (www.grassvalley.com).

Important Safety Information

This section provides important safety guidelines for operators and service personnel. Specific warnings and cautions appear throughout the manual where they apply. Please read and follow this important information, especially those instructions related to the risk of electric shock or injury to persons.

Symbols and Their Meanings



Indicates that dangerous high voltage is present within the equipment enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



Indicates that the user, operator or service technician should refer to the product manuals for important operating, maintenance, or service instructions.



This is a prompt to note the fuse rating when replacing fuses. The fuse referenced in the text must be replaced with one having the ratings indicated.



Identifies a protective grounding terminal which must be connected to earth ground prior to making any other equipment connections.



Identifies an external protective grounding terminal which may be connected to earth ground as a supplement to an internal grounding terminal.



Indicates that static sensitive components are present, which may be damaged by electrostatic discharge. Use anti-static procedures, equipment and surfaces during servicing.



Indicates that the equipment has more than one power supply cord, and that all power supply cords must be disconnected before servicing to avoid electric shock.



The presence of this symbol in or on Grass Valley equipment means that it has been tested and certified as complying with applicable Underwriters Laboratory (UL) regulations and recommendations for USA.



The presence of this symbol in or on Grass Valley equipment means that it has been tested and certified as complying with applicable Canadian Standard Association (CSA) regulations and recommendations for USA/Canada.



The presence of this symbol in or on Grass Valley equipment means that it has been tested and certified as complying with applicable Underwriters Laboratory (UL) regulations and recommendations for USA/Canada.



The presence of this symbol in or on Grass Valley equipment means that it has been tested and certified as complying with applicable Intertek Testing Services regulations and recommendations for USA/Canada.



The presence of this symbol in or on Grass Valley product means that it complies with all applicable European Union (CE) directives.



The presence of this symbol in or on Grass Valley product means that it complies with safety of laser product applicable standards.

Warnings



A warning indicates a possible hazard to personnel, which may cause injury or death. Observe the following general warnings when using or working on this equipment:

- Appropriately listed/certified mains supply power cords must be used for the connection of the equipment to the rated mains voltage.
- This product relies on the building's installation for short-circuit (over-current) protection. Ensure that a fuse or circuit breaker for the rated mains voltage is used on the phase conductors.
- Any instructions in this manual that require opening the equipment cover or enclosure are for use by qualified service personnel only.
- Do not operate the equipment in wet or damp conditions.
- This equipment is grounded through the grounding conductor of the power cords. To avoid electrical shock, plug the power cords into a properly wired receptacle before connecting the equipment inputs or outputs.
- Route power cords and other cables so they are not likely to be damaged. Properly support heavy cable bundles to avoid connector damage.
- Disconnect power before cleaning the equipment. Do not use liquid or aerosol cleaners; use only a damp cloth.
- Dangerous voltages may exist at several points in this equipment. To avoid injury, do not touch exposed connections and components while power is on.
- High leakage current may be present. Earth connection of product is essential before connecting power.
- Prior to servicing, remove jewelry such as rings, watches, and other metallic objects.
- To avoid fire hazard, use only the fuse type and rating specified in the service instructions for this product, or on the equipment.
- To avoid explosion, do not operate this equipment in an explosive atmosphere.
- Use proper lift points. Do not use door latches to lift or move equipment.
- Avoid mechanical hazards. Allow all rotating devices to come to a stop before servicing.
- Have qualified service personnel perform safety checks after any service.

Cautions



A caution indicates a possible hazard to equipment that could result in equipment damage. Observe the following cautions when operating or working on this equipment:

- This equipment is meant to be installed in a restricted access location.
- When installing this equipment, do not attach the power cord to building surfaces.
- Products that have no on/off switch, and use an external power supply must be installed in proximity to a main power outlet that is easily accessible.
- Use the correct voltage setting. If this product lacks auto-ranging power supplies, before applying power ensure that each power supply is set to match the power source.
- Provide proper ventilation. To prevent product overheating, provide equipment ventilation in accordance with the installation instructions.
- Do not operate with suspected equipment failure. If you suspect product damage or equipment failure, have the equipment inspected by qualified service personnel.
- To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.
- This unit may have more than one power supply cord. Disconnect all power supply cords before servicing to avoid electric shock.
- Follow static precautions at all times when handling this equipment. Servicing should be done in a static-free environment.
- To reduce the risk of electric shock, plug each power supply cord into separate branch circuits employing separate service grounds.

Electrostatic Discharge (ESD) Protection



Electrostatic discharge occurs when electronic components are improperly handled and can result in intermittent failure or complete damage adversely affecting an electrical circuit. When you remove and replace any card from a frame always follow ESD-prevention procedures:

- Ensure that the frame is electrically connected to earth ground through the power cord or any other means if available.
- Wear an ESD wrist strap ensuring that it makes good skin contact. Connect the grounding clip to an *unpainted surface* of the chassis frame to safely ground unwanted ESD voltages. If no wrist strap is available, ground yourself by touching the *unpainted* metal part of the chassis.
- For safety, periodically check the resistance value of the antistatic strap, which should be between 1 and 10 megohms.
- When temporarily storing a card make sure it is placed in an ESD bag.
- Cards in an earth grounded metal frame or casing do not require any special ESD protection.

Battery Handling



This product may include a backup battery. There is a danger of explosion if the battery is replaced incorrectly. Replace the battery only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. Before disposing of your Grass Valley equipment, please review the *Disposal and Recycling Information* at:

http://www.grassvalley.com/assets/media/5692/Take-Back_Instructions.pdf

Cautions for LCD and TFT Displays



Excessive usage may harm your vision. Rest for 10 minutes for every 30 minutes of usage.

If the LCD or TFT glass is broken, handle glass fragments with care when disposing of them. If any fluid leaks out of a damaged glass cell, be careful not to get the liquid crystal fluid in your mouth or skin. If the liquid crystal touches your skin or clothes, wash it off immediately using soap and water. Never swallow the fluid. The toxicity is extremely low but caution should be exercised at all times.

Mesures de sécurité et avis importants

La présente section fournit des consignes de sécurité importantes pour les opérateurs et le personnel de service. Des avertissements ou mises en garde spécifiques figurent dans le manuel, dans les sections où ils s'appliquent. Prenez le temps de bien lire les consignes et assurez-vous de les respecter, en particulier celles qui sont destinées à prévenir les décharges électriques ou les blessures.

Signification des symboles utilisés



Signale la présence d'une tension élevée et dangereuse dans le boîtier de l'équipement ; cette tension peut être suffisante pour constituer un risque de décharge électrique.



Avertit l'utilisateur, l'opérateur ou le technicien de maintenance que des instructions importantes relatives à l'utilisation et à l'entretien se trouvent dans la documentation accompagnant l'équipement.



Invite l'utilisateur, l'opérateur ou le technicien de maintenance à prendre note du calibre du fusible lors du remplacement de ce dernier. Le fusible auquel il est fait référence dans le texte doit être remplacé par un fusible du même calibre.



Identifie une borne de mise à la terre de protection. Il faut relier cette borne à la terre avant d'effectuer toute autre connexion à l'équipement.



Identifie une borne de mise à la terre externe qui peut être connectée en tant que borne de mise à la terre supplémentaire.



Signale la présence de composants sensibles à l'électricité statique et qui sont susceptibles d'être endommagés par une décharge électrostatique. Utilisez des procédures, des équipements et des surfaces antistatiques durant les interventions d'entretien.



Le symbole ci-contre signifie que l'appareil comporte plus d'un cordon d'alimentation et qu'il faut débrancher tous les cordons d'alimentation avant toute opération d'entretien, afin de prévenir les chocs électriques.



La marque UL certifie que l'appareil visé a été testé par Underwriters Laboratory (UL) et reconnu conforme aux exigences applicables en matière de sécurité électrique en vigueur au Canada et aux États-Unis.



La marque C-CSA-US certifie que l'appareil visé a été testé par l'Association canadienne de normalisation (CSA) et reconnu conforme aux exigences applicables en matière de sécurité électrique en vigueur au Canada et aux États-Unis.



La marque C-UL-US certifie que l'appareil visé a été testé par Underwriters Laboratory (UL) et reconnu conforme aux exigences applicables en matière de sécurité électrique en vigueur au Canada et aux États-Unis.



La marque ETL Listed d'Intertek pour le marché Nord-Américain certifie que l'appareil visé a été testé par Intertek et reconnu conforme aux exigences applicables en matière de sécurité électrique en vigueur au Canada et aux États-Unis.



Le marquage CE indique que l'appareil visé est conforme aux exigences essentielles des directives applicables de l'Union européenne en matière de sécurité électrique, de compatibilité électromagnétique et de conformité environnementale.



Le symbole ci-contre sur un appareil Grass Valley ou à l'intérieur de l'appareil indique qu'il est conforme aux normes applicables en matière de sécurité laser.

Avertissements



Les avertissements signalent des conditions ou des pratiques susceptibles d'occasionner des blessures graves, voire fatales. Veuillez vous familiariser avec les avertissements d'ordre général ci-dessous :

- Un cordon d'alimentation dûment homologué doit être utilisé pour connecter l'appareil à une tension de secteur de 120 V CA ou 240 V CA.
- La protection de ce produit contre les courts-circuits (surintensités) dépend de l'installation électrique du bâtiment. Assurez-vous qu'un fusible ou un disjoncteur pour 120 V CA ou 240 V CA est utilisé sur les conducteurs de phase.

- Dans le présent manuel, toutes les instructions qui nécessitent d'ouvrir le couvercle de l'équipement sont destinées exclusivement au personnel technique qualifié.
- N'utilisez pas cet appareil dans un environnement humide.
- Cet équipement est mis à la terre par le conducteur de mise à la terre des cordons d'alimentation. Pour éviter les chocs électriques, branchez les cordons d'alimentation sur une prise correctement câblée avant de brancher les entrées et sorties de l'équipement.
- Acheminez les cordons d'alimentation et autres câbles de façon à ce qu'ils ne risquent pas d'être endommagés. Supportez correctement les enroulements de câbles afin de ne pas endommager les connecteurs.
- Coupez l'alimentation avant de nettoyer l'équipement. Ne pas utiliser de nettoyeurs liquides ou en aérosol. Utilisez uniquement un chiffon humide.
- Des tensions dangereuses peuvent exister en plusieurs points dans cet équipement. Pour éviter toute blessure, ne touchez pas aux connexions ou aux composants exposés lorsque l'appareil est sous tension.
- Avant de procéder à toute opération d'entretien ou de dépannage, enlevez tous vos bijoux (notamment vos bagues, votre montre et autres objets métalliques).
- Pour éviter tout risque d'incendie, utilisez uniquement les fusibles du type et du calibre indiqués sur l'équipement ou dans la documentation qui l'accompagne.
- Ne pas utiliser cet appareil dans une atmosphère explosive.
- Présence possible de courants de fuite. Un raccordement à la masse est indispensable avant la mise sous tension.
- Après tout travail d'entretien ou de réparation, faites effectuer des contrôles de sécurité par le personnel technique qualifié.

Mises en garde



Les mises en garde signalent des conditions ou des pratiques susceptibles d'endommager l'équipement. Veuillez vous familiariser avec les mises en garde ci-dessous :

- L'appareil est conçu pour être installé dans un endroit à accès restreint.
- Au moment d'installer l'équipement, ne fixez pas les cordons d'alimentation aux surfaces intérieures de l'édifice.
- Les produits qui n'ont pas d'interrupteur marche-arrêt et qui disposent d'une source d'alimentation externe doivent être installés à proximité d'une prise de courant facile d'accès.
- Si l'équipement n'est pas pourvu d'un module d'alimentation auto-adaptable, vérifiez la configuration de chacun des modules d'alimentation avant de les mettre sous tension.
- Assurez une ventilation adéquate. Pour éviter toute surchauffe du produit, assurez une ventilation de l'équipement conformément aux instructions d'installation.
- N'utilisez pas l'équipement si vous suspectez un dysfonctionnement du produit. Faites-le inspecter par un technicien qualifié.
- Pour réduire le risque de choc électrique, n'effectuez pas de réparations autres que celles qui sont décrites dans le présent manuel, sauf si vous êtes qualifié pour le faire.

Confiez les réparations à un technicien qualifié. La maintenance doit se réaliser dans un milieu libre d'électricité statique.

- L'appareil peut comporter plus d'un cordon d'alimentation. Afin de prévenir les chocs électriques, débrancher tous les cordons d'alimentation avant toute opération d'entretien.
- Veillez à toujours prendre les mesures de protection antistatique appropriées quand vous manipulez l'équipement.
- Pour réduire le risque de choc électrique, branchez chaque cordon d'alimentation dans des circuits de dérivation distincts utilisant des zones de service distinctes.

Protection contre les décharges électrostatiques (DES)



Une décharge électrostatique peut se produire lorsque des composants électroniques ne sont pas manipulés de manière adéquate, ce qui peut entraîner des défaillances intermittentes ou endommager irrémédiablement un circuit électrique. Au moment de remplacer une carte dans un châssis, prenez toujours les mesures de protection antistatique appropriées :

- Assurez-vous que le châssis est relié électriquement à la terre par le cordon d'alimentation ou tout autre moyen disponible.
- Portez un bracelet antistatique et assurez-vous qu'il est bien en contact avec la peau. Connectez la pince de masse à une *surface non peinte* du châssis pour détourner à la terre toute tension électrostatique indésirable. En l'absence de bracelet antistatique, déchargez l'électricité statique de votre corps en touchant une surface métallique *non peinte* du châssis.
- Pour plus de sécurité, vérifiez périodiquement la valeur de résistance du bracelet antistatique. Elle doit se situer entre 1 et 10 mégohms.
- Si vous devez mettre une carte de côté, assurez-vous de la ranger dans un sac protecteur antistatique.
- Les cartes qui sont reliées à un châssis ou boîtier métallique mis à la terre ne nécessitent pas de protection antistatique spéciale.

Manipulation de la pile



Ce produit peut inclure une pile de sauvegarde. Il y a un risque d'explosion si la pile est remplacée de manière incorrecte. Remplacez la pile uniquement par un modèle identique ou équivalent recommandé par le fabricant. Disposez des piles usagées conformément aux instructions du fabricant. Avant de vous séparer de votre équipement Grass Valley, veuillez consulter les *informations de mise au rebut et de recyclage* à :

http://www.grassvalley.com/assets/media/5692/Take-Back_Instructions.pdf

Laser Safety - Fiber Output SFP and QSFP Modules Warning

LASER SAFETY



The average optical output power does not exceed 0 dBm (1mW) under normal operating conditions. Unused optical outputs should be covered to prevent direct exposure to the laser beam.

Even though the power of these lasers is low, the beam should be treated with caution and common sense because it is intense and concentrated. Laser radiation can cause irreversible and permanent damage of eyesight. Please read the following guidelines carefully:

- Make sure that a fiber is connected to the board's fiber outputs before power is applied. If a fiber cable (e.g. patchcord) is already connected to an output, make sure that the cable's other end is connected, too, before powering up the board.
- **Do not** look in the end of a fiber to see if light is coming out. The laser wavelengths being used are totally invisible to the human eye and can cause permanent damage. Always use optical instrumentation, such as an optical power meter, to verify light output.

Environmental Information

European (CE) WEEE directive.



This symbol on the product(s) means that at the end of life disposal it should not be mixed with general waste.

Visit www.grassvalley.com for recycling information.

Grass Valley believes this environmental information to be correct but cannot guarantee its completeness or accuracy since it is based on data received from sources outside our company. All specifications are subject to change without notice.

If you have questions about Grass Valley environmental and social involvement (WEEE, RoHS, REACH, etc.), please contact us at environment@grassvalley.com.

Safety and EMC Standards

This equipment complies with the following standards:

Safety Standards



Information Technology Equipment - Safety Part 1

EN60950-1: 2006

Safety of Information Technology Equipment Including Electrical Business Equipment.

UL1419 (4th Edition)

Standard for Safety – Professional Video and Audio equipment (UL file number E193966)

EMC Standards

This unit conforms to the following standards:

EN55032:2015 (Class A)

Electromagnetic Compatibility of multimedia equipment - Emission requirements

EN61000-3-2:2014 (Class A)

Electromagnetic Compatibility - Limits for harmonic current emissions

EN61000-3-3:2013

Electromagnetic Compatibility - Limits of voltage changes, voltage fluctuations and flicker

EN55103-2:2009 (Environment E2)

Electromagnetic Compatibility, Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 2. Immunity



WARNING

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

FCC / CFR 47:Part 15 (Class A)

Federal Communications Commission Rules Part 15, Subpart B

Caution to the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

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

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EMC Performance of Cables and Connectors

Grass Valley products are designed to meet or exceed the requirements of the appropriate European EMC standards. In order to achieve this performance in real installations it is essential to use cables and connectors with good EMC characteristics.

All signal connections (including remote control connections) shall be made with screened cables terminated in connectors having a metal shell. The cable screen shall have a large-area contact with the metal shell.

SIGNAL/DATA PORTS

For unconnected signal/data ports on the unit, fit shielding covers. For example, fit EMI blanking covers to SFP+ type ports; and fit 75 Ω RF terminators to BNC type ports.

COAXIAL CABLES

Coaxial cables connections (particularly serial digital video connections) shall be made with high-quality double-screened coaxial cables such as Belden 8281 or BBC type PSF1/2M and Belden 1694A (for 3Gbps).

D-TYPE CONNECTORS

D-type connectors shall have metal shells making good RF contact with the cable screen. Connectors having "dimples" which improve the contact between the plug and socket shells, are recommended.

1-0200100-0000 - LDX100 CAMERA (Left)

List of Field Replacable Units (FRUs):

Pos	Part Number	Description	Quantity
4	4-000000049-00	FRU kit COVER LEFT ASSY	1
11	94-00017-000	HOT SHOE MODULE	1
12	4-000000030-00	FRU KIT DUSTCAP	50
13	91-00100-000	SHOULDERPAD ASSY	1
791	4-000000020-00	FRU KIT COMBI SCR PAN STL ST M3X6	50
991	522-00066-01	PCBA Main Processor Board	1
993	522-00099-01	PCBA SYSTEM SPIDER FLEX SSB2MPB	1
998	522-00096-01	PCBA System 300V Power Board	1

4-000000051-00 FRU kit Misc parts LDX100 series

**FRU kit contains**

Parts cannot be ordered separately			
	522-00094-01	PCBA Front Switch Panel	1
	90-00040-000	PCBA System Back Panel CTRL Board	1
	90-00064-000	PCBA Handgrip Interface Board	1
80	94-00021-000	18P POWER CABLE ASSY	1
	94-00037-000	12P LENS INTF CABLE ASSY	1

4-000000053-00 FRU kit Rotary knobs LDX100 series

**FRU kit contains**

Parts cannot be ordered separately			
8	3922 400 11651	ROTARY KNOB	10
	3922 400 11642	VOLUME KNOB	10
	11-00218-000	VOLUME KNOB	10

4-000000054-00 FRU kit flexes LDX100 series

**FRU kit contains**

Parts cannot be ordered separately			
	10-00041-000	PCB 02FIB Flex FWD2MP System	2
992	10-00048-000	PCB 02FIB Flex BP2MPB	2
994	94-00041-000	FFC FH40 10P SS TL45mm	2
	94-00042-000	FFC FH40 10P OS TL35mm	2
	94-00047-000	FFC FH40 10P OS TL200mm	2
82	94-00048-000	FFC FH40 20P OS TL45mm	2
86	94-00054-000	FFC FH40 30P SS TL125mm	2
83	94-00058-000	FFC FH40 30P OS TL85mm	2
84	94-00074-000	FFC FH40 10P SS TL190mm	2
	94-00075-000	FFC FH40 20P OS TL185mm	2

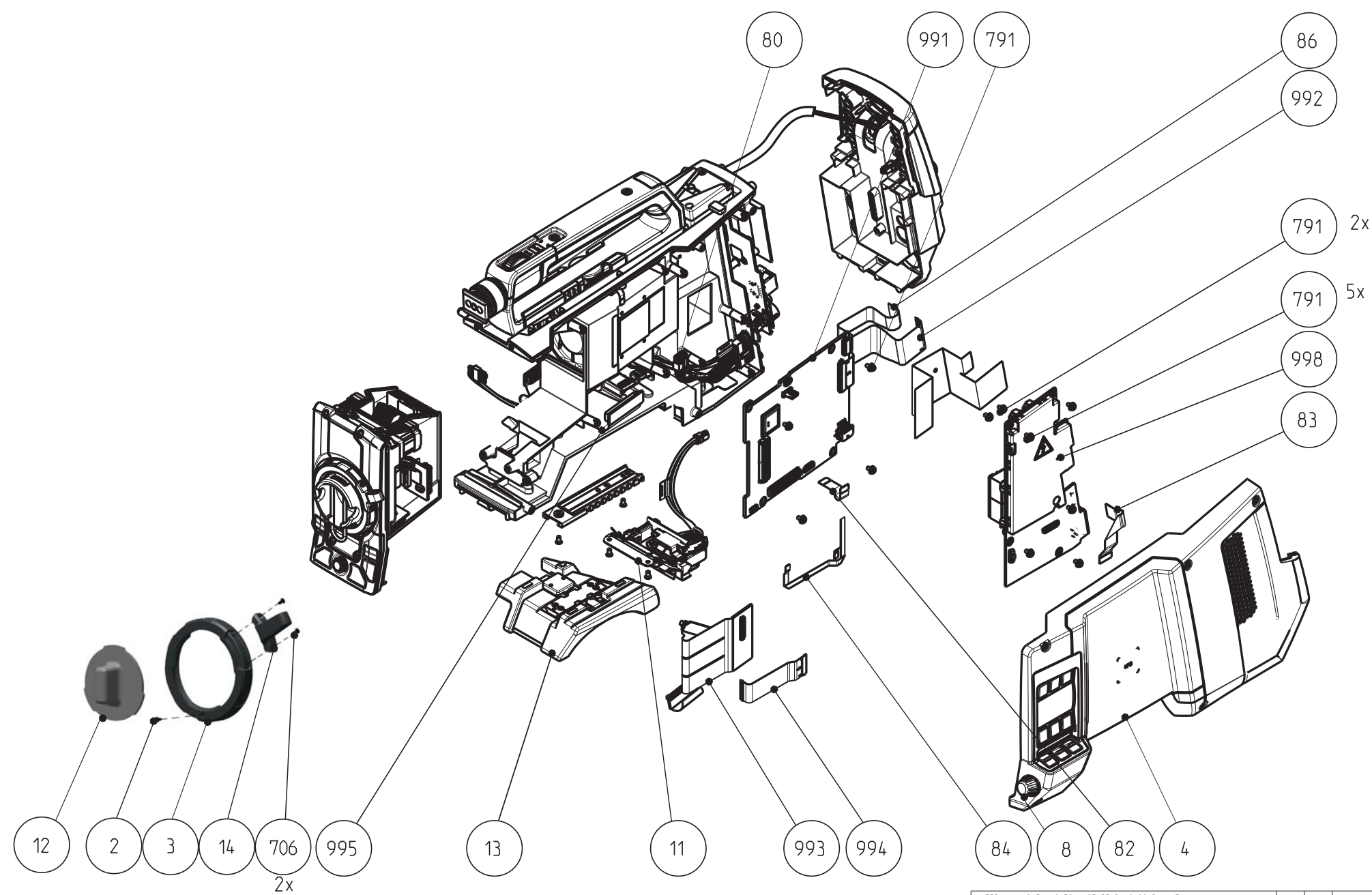
4-000000056-00 FRU kit Bajonet ring assy MARK II

**FRU kit contains**

Parts cannot be ordered separately			
2	20-00376	CH SCR STL ST M2x3	1
3	11-00177-000	BAJONET RING B4	1
14	11-00398-000	SHARKY MARK II	1
706	2522 203 04002	CSK SCR STL ST M2x4	2

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CONSENT OF THE COMPANY

4



MATERIAL AND FINISHES MUST BE ROHS COMPLIANT							
		DOCUMENT NUMBER:		SHEET:			
DESCRIPTION: LDX100 CAMERA (Left)							
		UNIT:		SCALE:	FORMAT:	SHEET:	

1-0200100-0000 - LDX100 CAMERA (Right)

List of Field Replacable Units (FRUs):

Pos	Part Number	Description	Quantity
5	4-000000050-00	FRU kit COVER RIGHT ASSY	1
6	94-00030-000	TRANSMISSION BRD ASSY	1
10	91-00098-000	SFP COVER ASSY	1
791	4-000000020-00	FRU KIT COMBI SCR PAN STL ST M3X6	50
995	90-00066-000	PCBA FLEX TXB2MPB	1
996	522-00093-01	PCBA QSFP Board	1
997	522-00117-01	PCBA Flex TXB2RCB	1

4-000000051-00 FRU kit Misc parts LDX100 series

**FRU kit contains****Parts cannot be ordered separately**

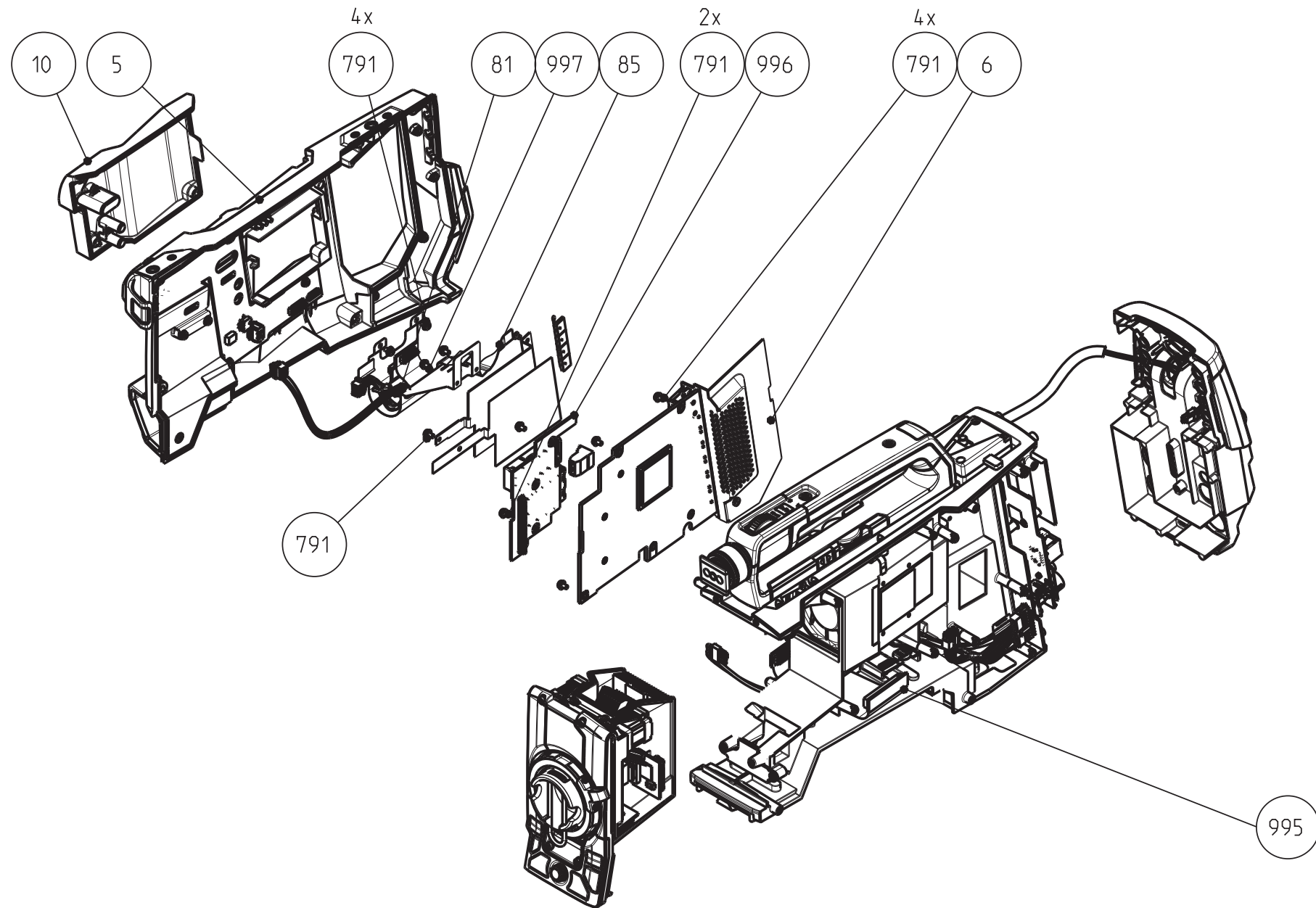
	522-00094-01	PCBA Front Switch Panel	1
	90-00040-000	PCBA System Back Panel CTRL Board	1
	90-00064-000	PCBA Handgrip Interface Board	1
	94-00021-000	18P POWER CABLE ASSY	1
81	94-00037-000	12P LENS INTF CABLE ASSY	1

4-000000054-00 FRU kit flexes LDX100 series

**FRU kit contains****Parts cannot be ordered separately**

	10-00041-000	PCB 02FIB Flex FWD2MP System	2
	10-00048-000	PCB 02FIB Flex BP2MPB	2
	94-00041-000	FFC FH40 10P SS TL45mm	2
	94-00042-000	FFC FH40 10P OS TL35mm	2
	94-00047-000	FFC FH40 10P OS TL200mm	2
	94-00048-000	FFC FH40 20P OS TL45mm	2
	94-00054-000	FFC FH40 30P SS TL125mm	2
	94-00058-000	FFC FH40 30P OS TL85mm	2
	94-00074-000	FFC FH40 10P SS TL190mm	2
85	94-00075-000	FFC FH40 20P OS TL185mm	2

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MATERIAL AND FINISHES MUST BE RoHS COMPLIANT						
		DOCUMENT NUMBER:				
		SHEET:				
DESCRIPTION: LDX100 CAMERA (Right)						
		UNIT:		SCALE:	FORMAT:	SHEET:

94-00022-00 - CAMERA BASE ASSY

List of Field Replacable Units (FRUs):

Pos	Part Number	Description	Quantity
2	3922 407 57423	V-BLOCK MACHINED	1
3	3922 404 23994	V BRACKET LONG	1
6	4-000000055-00	FRU kit DAMPED FAN ASSY	1
13	3922 407 63811	QUICK MOUNT BLOCK ASSY	1
15	4-000000048-00	FRU kit CAMERA HANDGRIP ASSY	1
992	522-00097-01	PCBA System Back Power/Audio Board	1
993	522-00118-01	PCBA System Backpanel Piggyback Board	1
791	4-000000020-00	FRU KIT COMBI SCR PAN STL ST M3X6	50

4-000000051-00 FRU kit Misc parts LDX100 series

**FRU kit contains**

Parts cannot be ordered separately			
	522-00094-01	PCBA Front Switch Panel	1
994	90-00040-000	PCBA System Back Panel CTRL Board	1
995	90-00064-000	PCBA Handgrip Interface Board	1
	94-00021-000	18P POWER CABLE ASSY	1
	94-00037-000	12P LENS INTF CABLE ASSY	1

4-000000053-00 FRU kit Rotary knobs LDX100 series

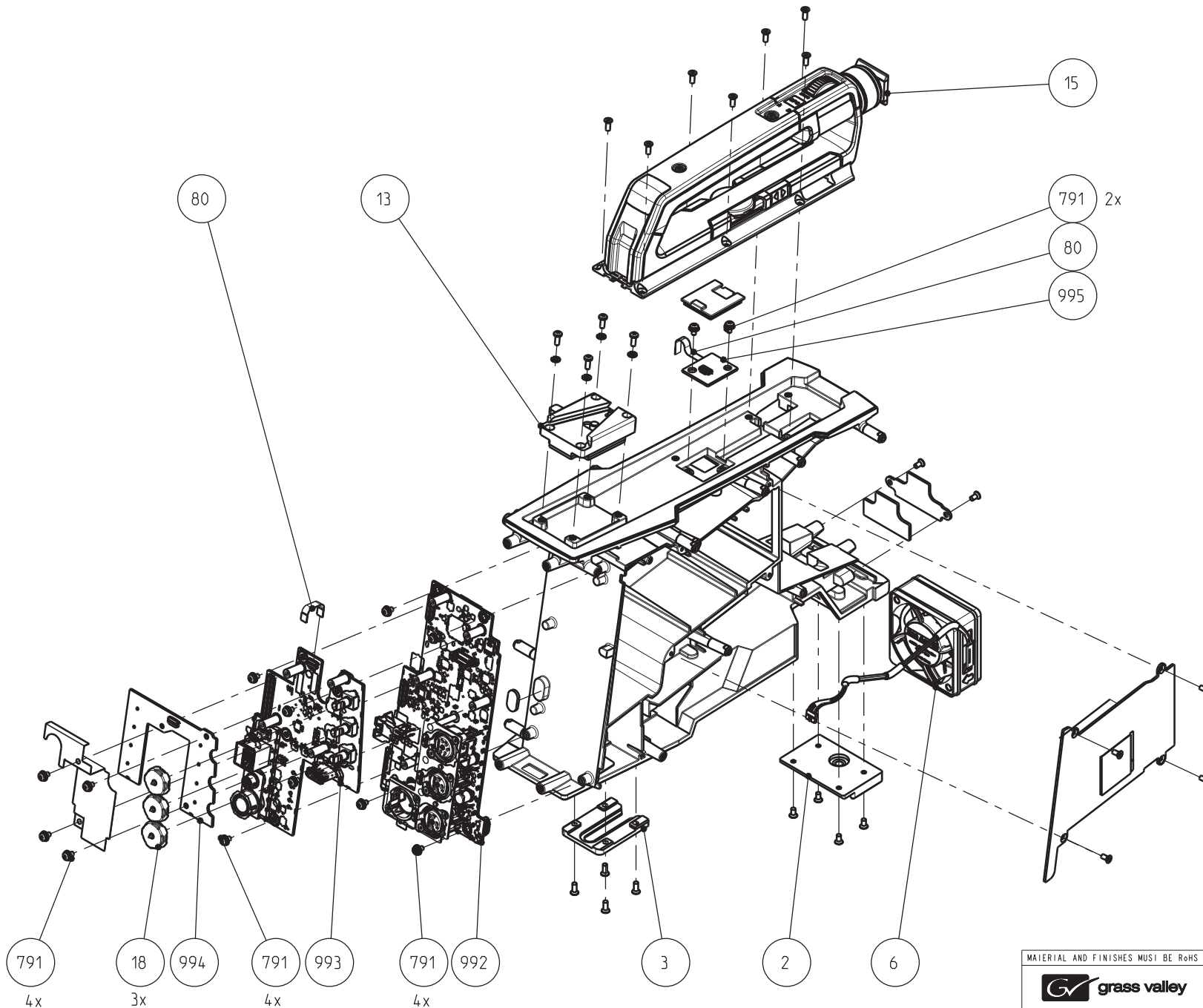
**FRU kit contains**

Parts cannot be ordered separately			
	3922 400 11651	ROTARY KNOB	10
	3922 400 11642	VOLUME KNOB	10
18	11-00218-000	VOLUME KNOB	10

4-000000054-00 FRU kit flexes LDX100 series

**FRU kit contains**

Parts cannot be ordered separately			
	10-00041-000	PCB 02FIB Flex FWD2MP System	2
	10-00048-000	PCB 02FIB Flex BP2MPB	2
	94-00041-000	FFC FH40 10P SS TL45mm	2
80	94-00042-000	FFC FH40 10P OS TL35mm	2
	94-00047-000	FFC FH40 10P OS TL200mm	2
	94-00048-000	FFC FH40 20P OS TL45mm	2
	94-00054-000	FFC FH40 30P SS TL125mm	2
	94-00058-000	FFC FH40 30P OS TL85mm	2
	94-00074-000	FFC FH40 10P SS TL190mm	2
	94-00075-000	FFC FH40 20P OS TL185mm	2



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DESCRIPTION: CAMERA BASE ASSY -			
UNIT:		SCALE:	FORMAT: SHEET:

94-00023-000 - FRONT PLATE ASSY

List of Field Replacable Units (FRUs):

Pos	Part Number	Description	Quantity
2	500-00083-01	FRONT MODULE CMOS 4K U23S	1
791	4-000000020-00	FRU KIT COMBI SCR PAN STL ST M3X6	50
792	4-000000021-00	FRU kit COMBI SCR PAN STL ST M3X8	200

4-000000051-00 FRU kit Misc parts LDX100 series

**FRU kit contains**

Parts cannot be ordered separately			
991	522-00094-01	PCBA Front Switch Panel	1
	90-00040-000	PCBA System Back Panel CTRL Board	1
	90-00064-000	PCBA Handgrip Interface Board	1
	94-00021-000	18P POWER CABLE ASSY	1
	94-00037-000	12P LENS INTF CABLE ASSY	1

4-000000052-00 FRU kit CH CAP SCR STL ST BLACK M3x12

**FRU kit contains**

Parts cannot be ordered separately			
646	20-00349	WASH STL ST CH BLACK M3 ISO 7092	50
647	20-00350	SPR WASH STL ST BLACK M3 DIN 7980	50
682	11-00241-000	CH CAP SCR STL ST BLACK M3x12	50

4-000000053-00 FRU kit Rotary knobs LDX100 series

**FRU kit contains**

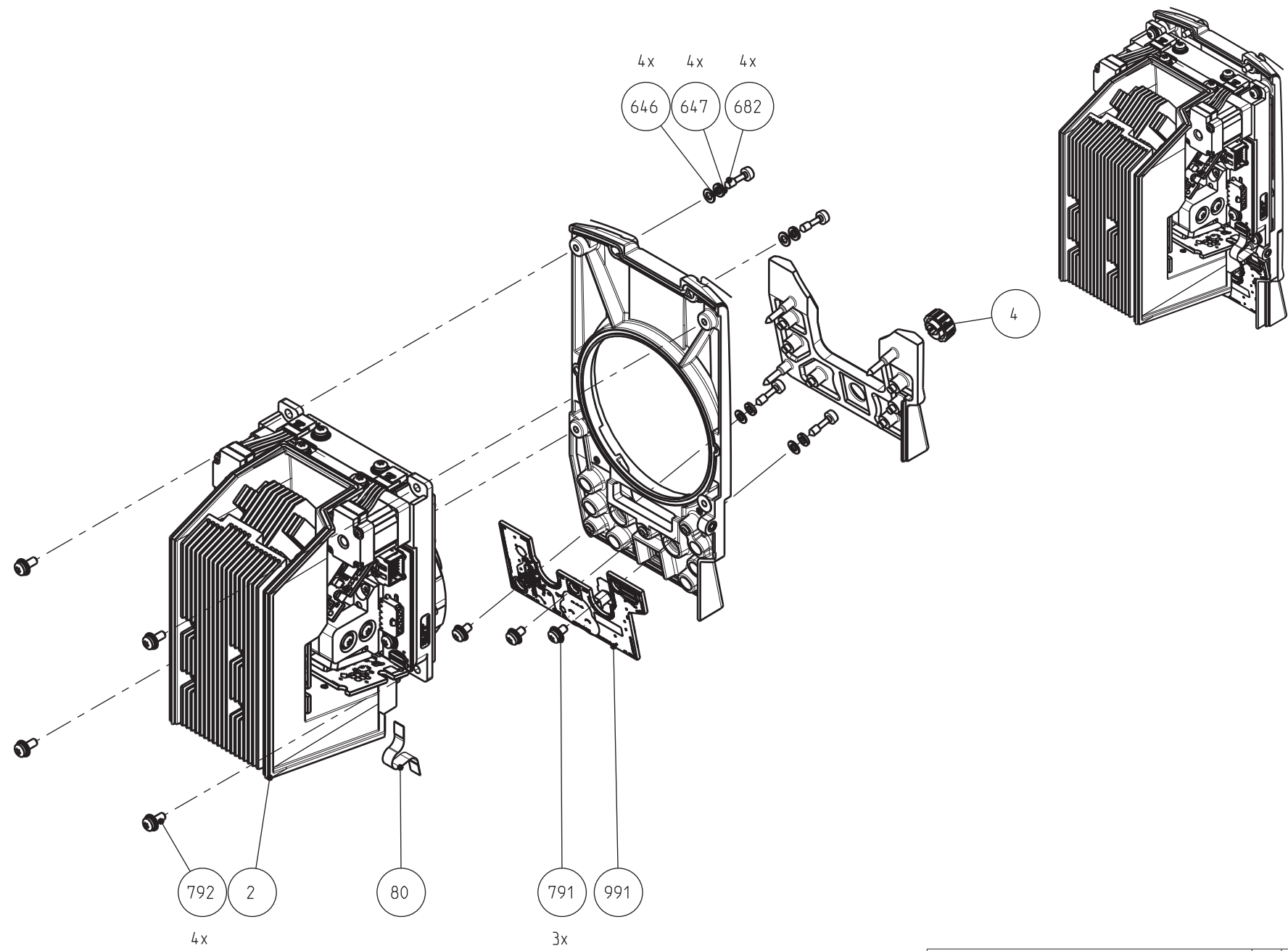
Parts cannot be ordered separately			
	3922 400 11651	ROTARY KNOB	10
4	3922 400 11642	VOLUME KNOB	10
	11-00218-000	VOLUME KNOB	10

4-000000054-00 FRU kit flexes LDX100 series

**FRU kit contains**

Parts cannot be ordered separately			
	10-00041-000	PCB 02FIB Flex FWD2MP System	2
	10-00048-000	PCB 02FIB Flex BP2MPB	2
80	94-00041-000	FFC FH40 10P SS TL45mm	2
	94-00042-000	FFC FH40 10P OS TL35mm	2
	94-00047-000	FFC FH40 10P OS TL200mm	2
	94-00048-000	FFC FH40 20P OS TL45mm	2
	94-00054-000	FFC FH40 30P SS TL125mm	2
	94-00058-000	FFC FH40 30P OS TL85mm	2
	94-00074-000	FFC FH40 10P SS TL190mm	2
	94-00075-000	FFC FH40 20P OS TL185mm	2

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DESCRIPTION:	FRONT PLATE ASSY					
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94-00024-000 - BACK PLATE ASSY

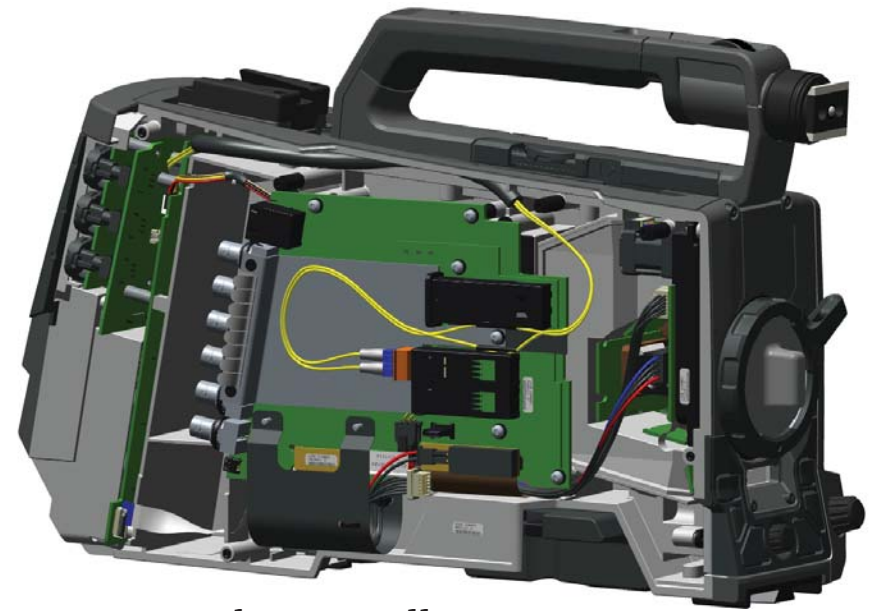
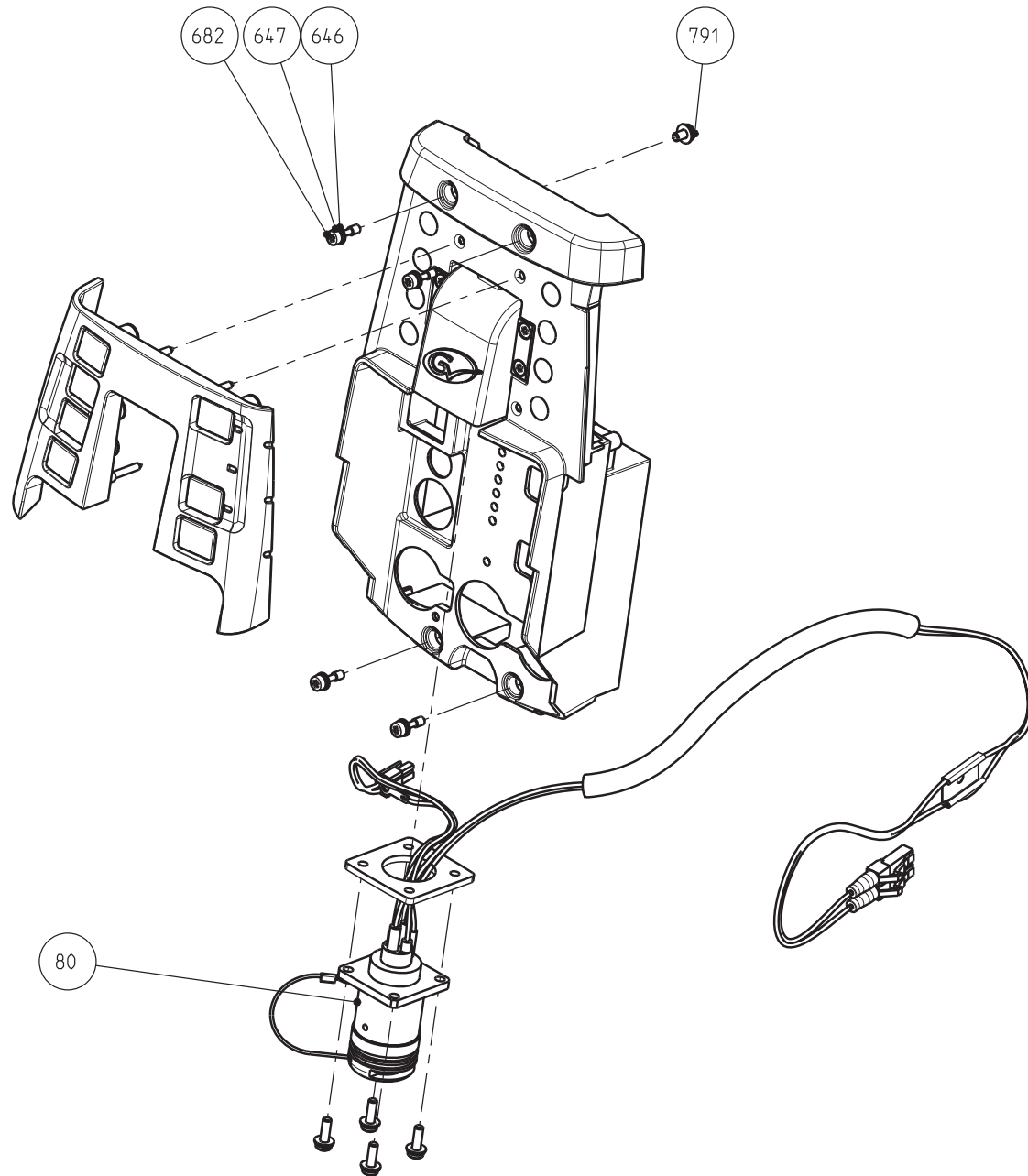
List of Field Replacable Units (FRUs):

Pos	Part Number	Description	Quantity
80	94-00038-000	LEMO FIBER CABLE ASSY	1
791	4-000000020-00	FRU KIT COMBI SCR PAN STL ST M3X6	50
	4-000000052-00	FRU kit CH CAP SCR STL ST BLACK M3x12	

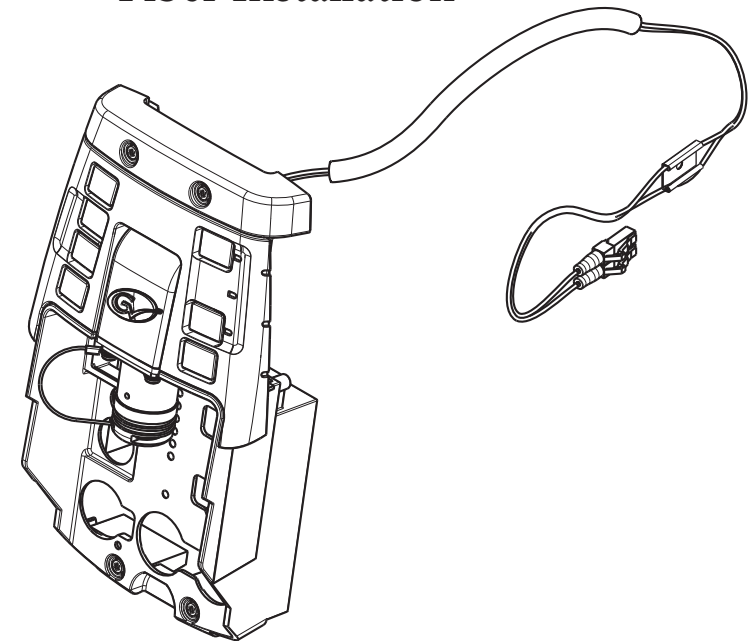


FRU kit contains

Parts cannot be ordered separately			
646	20-00349	WASH STL ST CH BLACK M3 ISO 7092	50
647	20-00350	SPR WASH STL ST BLACK M3 DIN 7980	50
682	11-00241-000	CH CAP SCR STL ST BLACK M3x12	50



Fiber Installation



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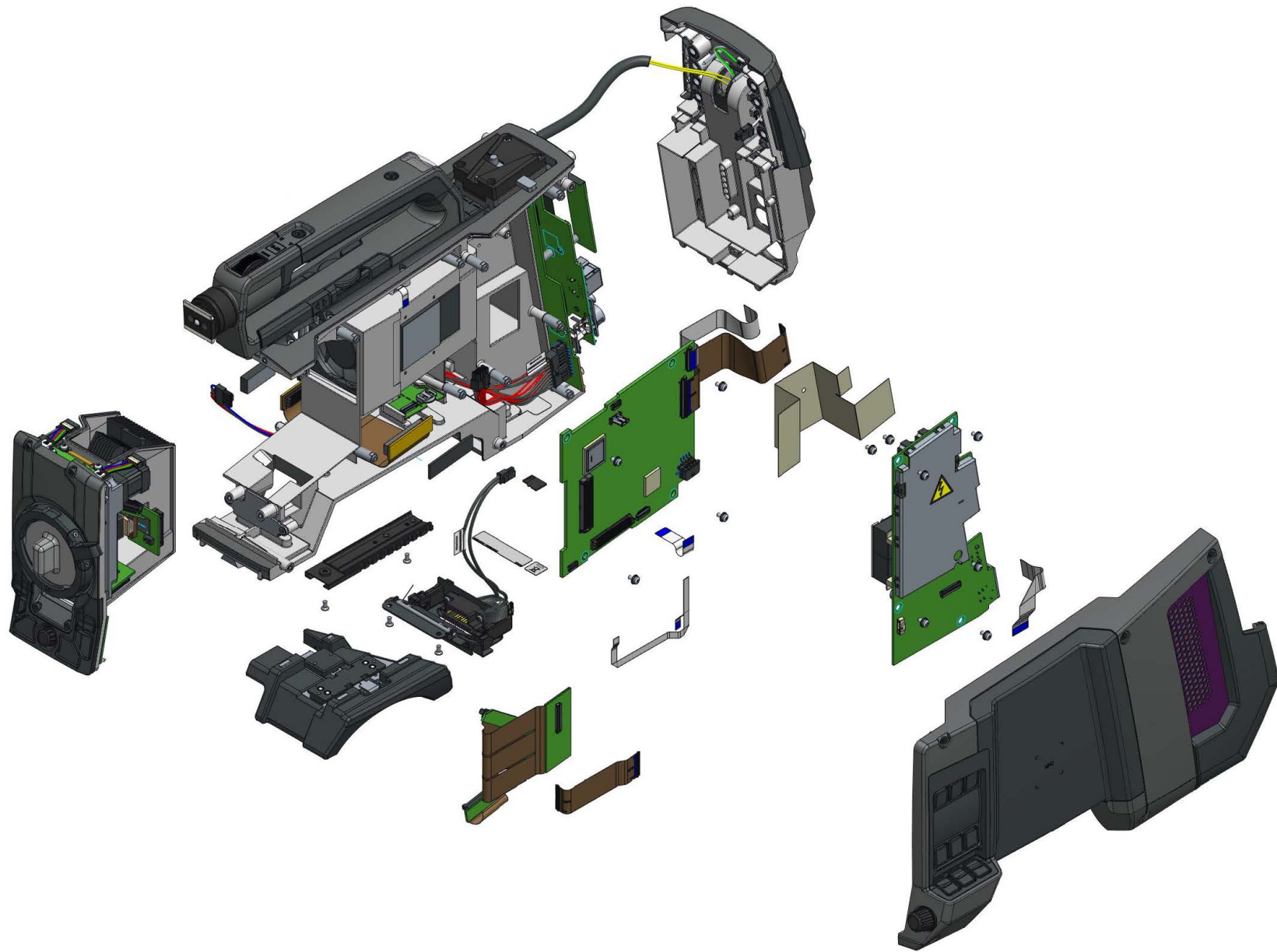
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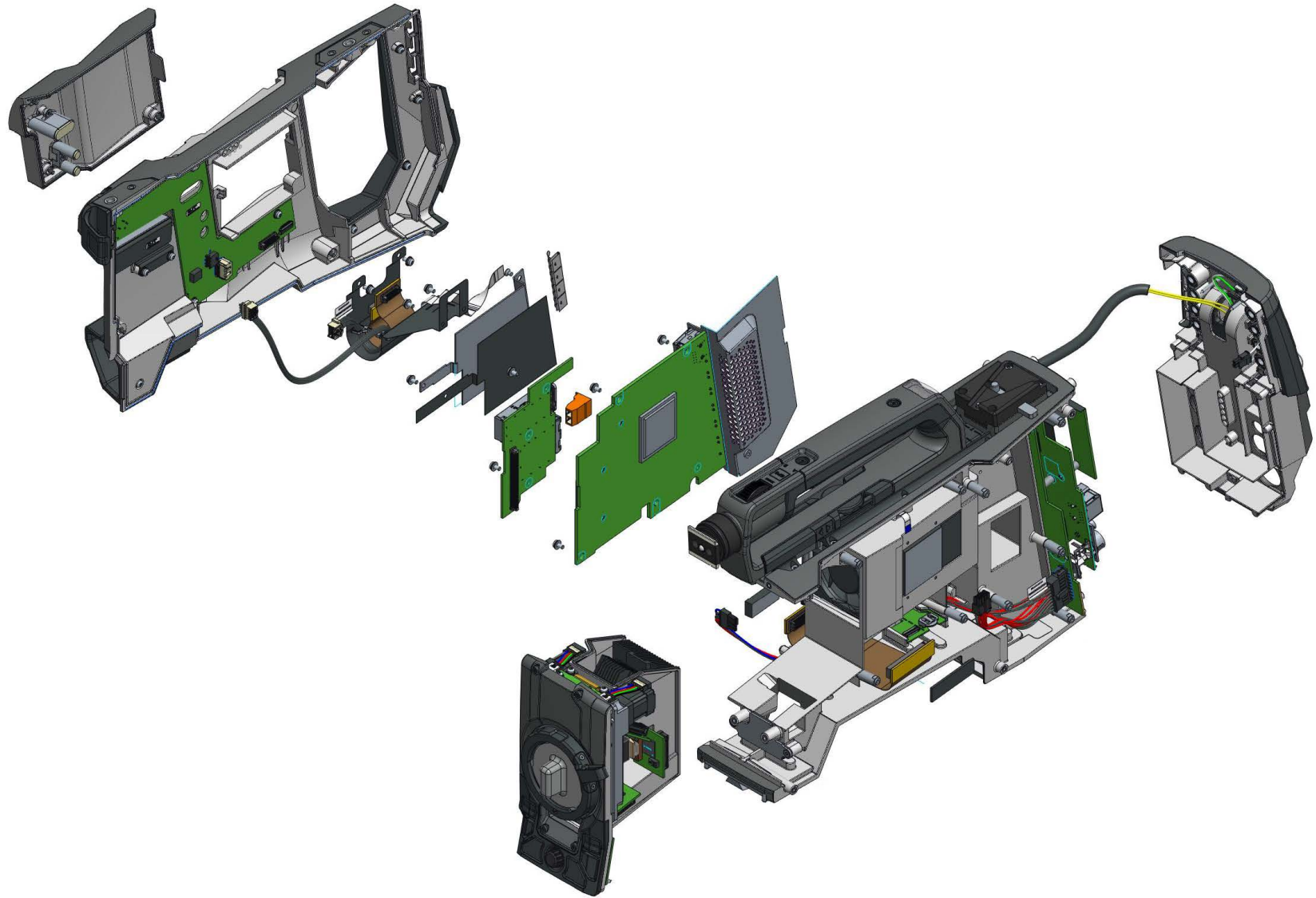
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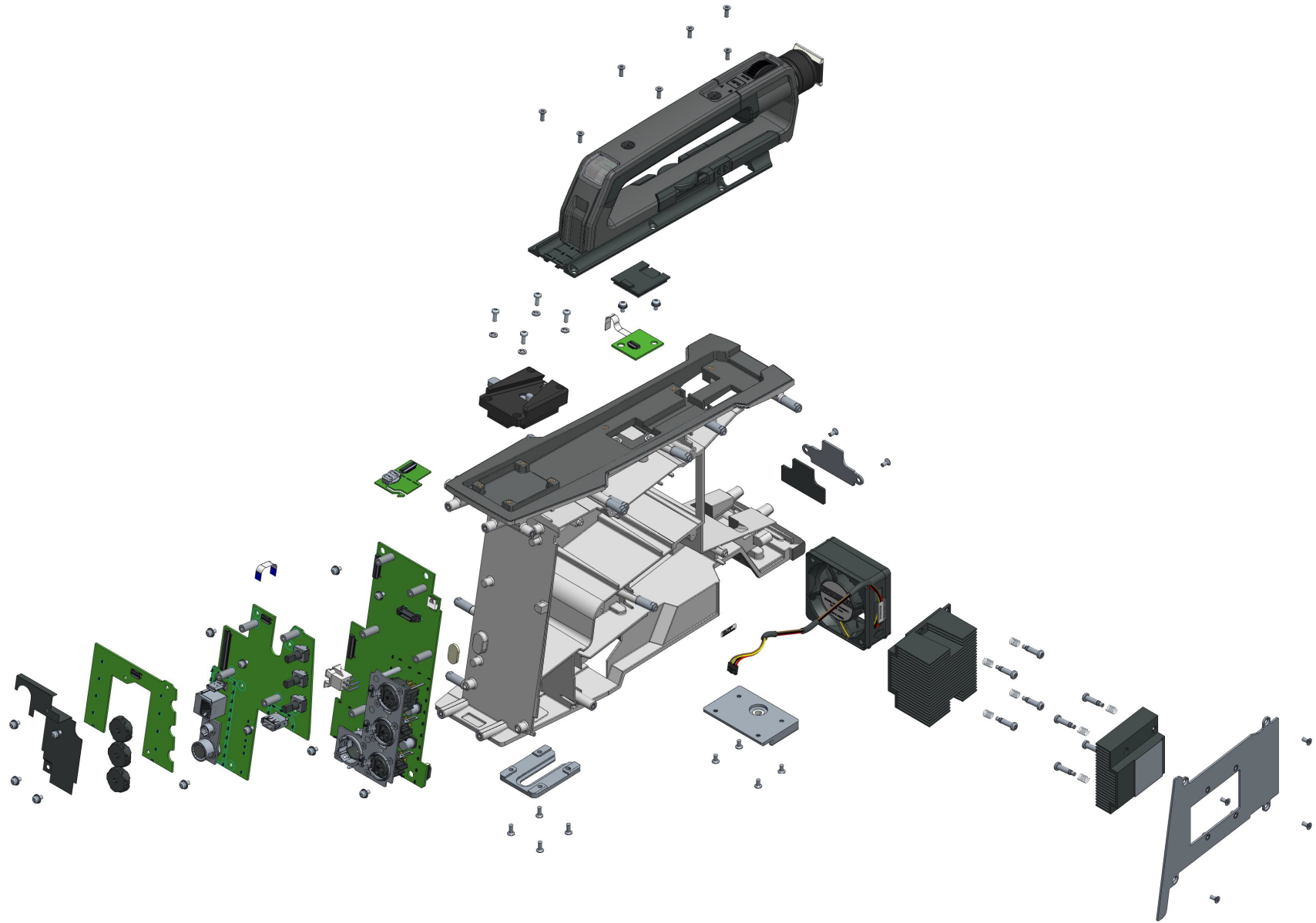
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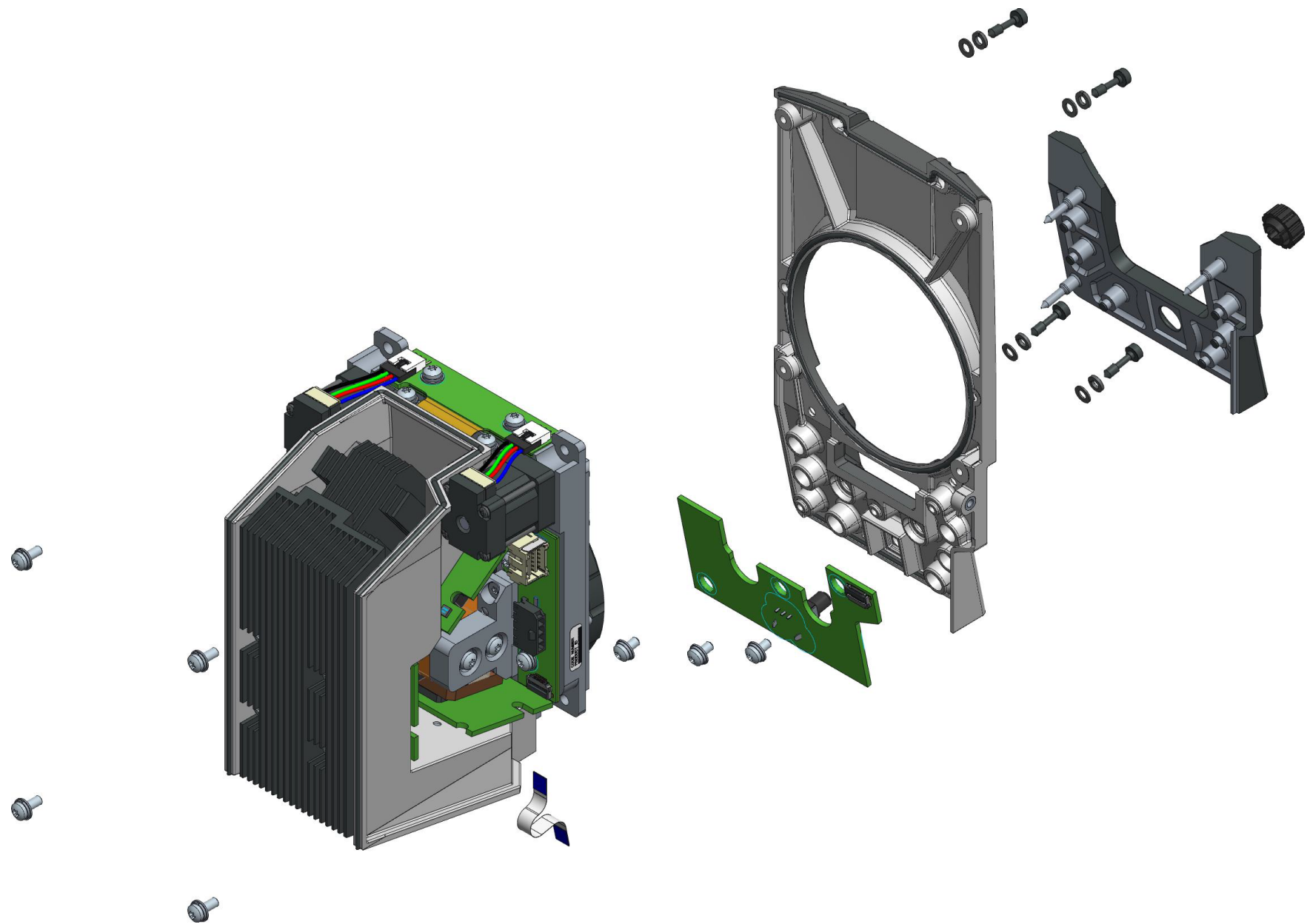
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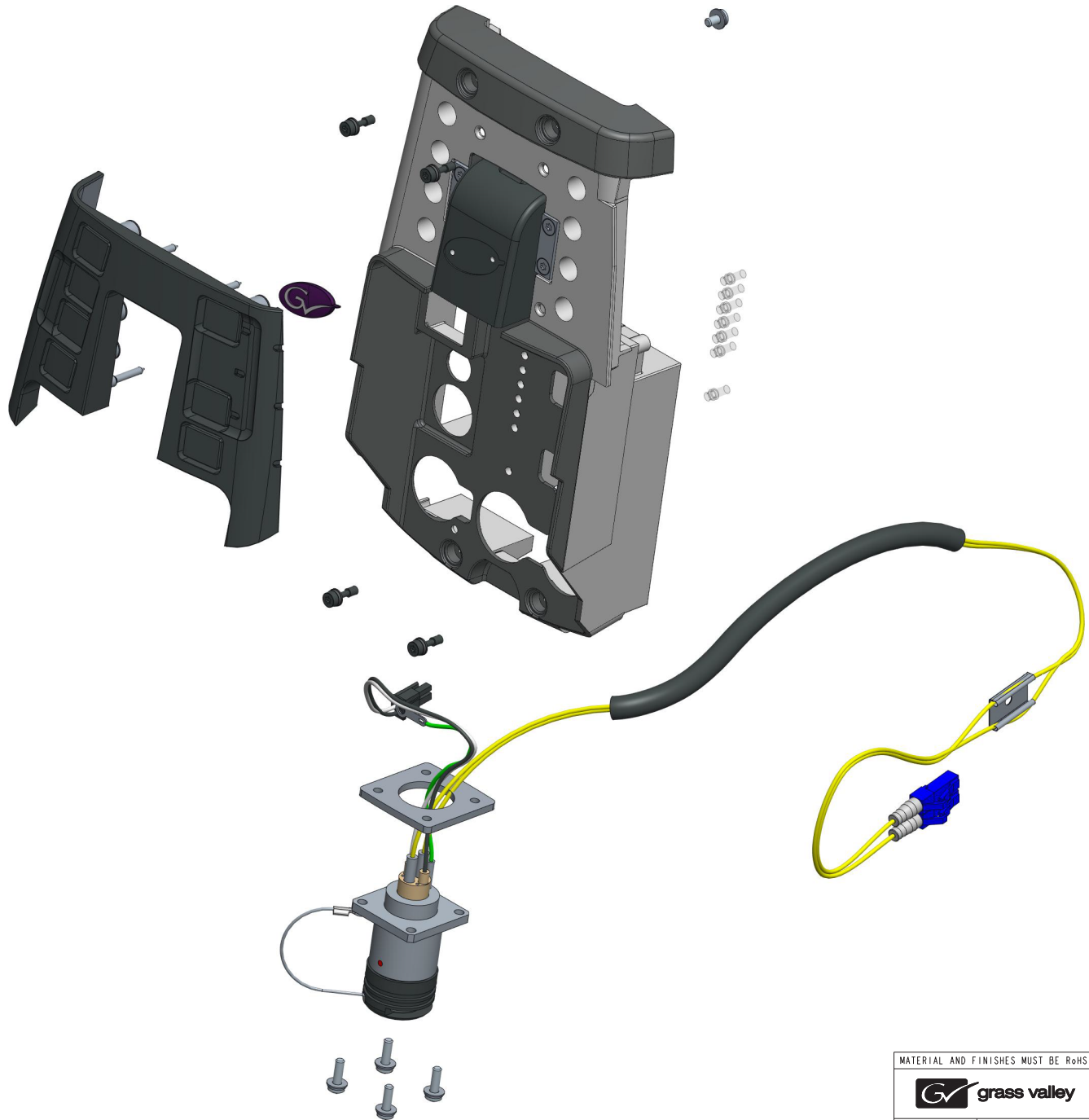
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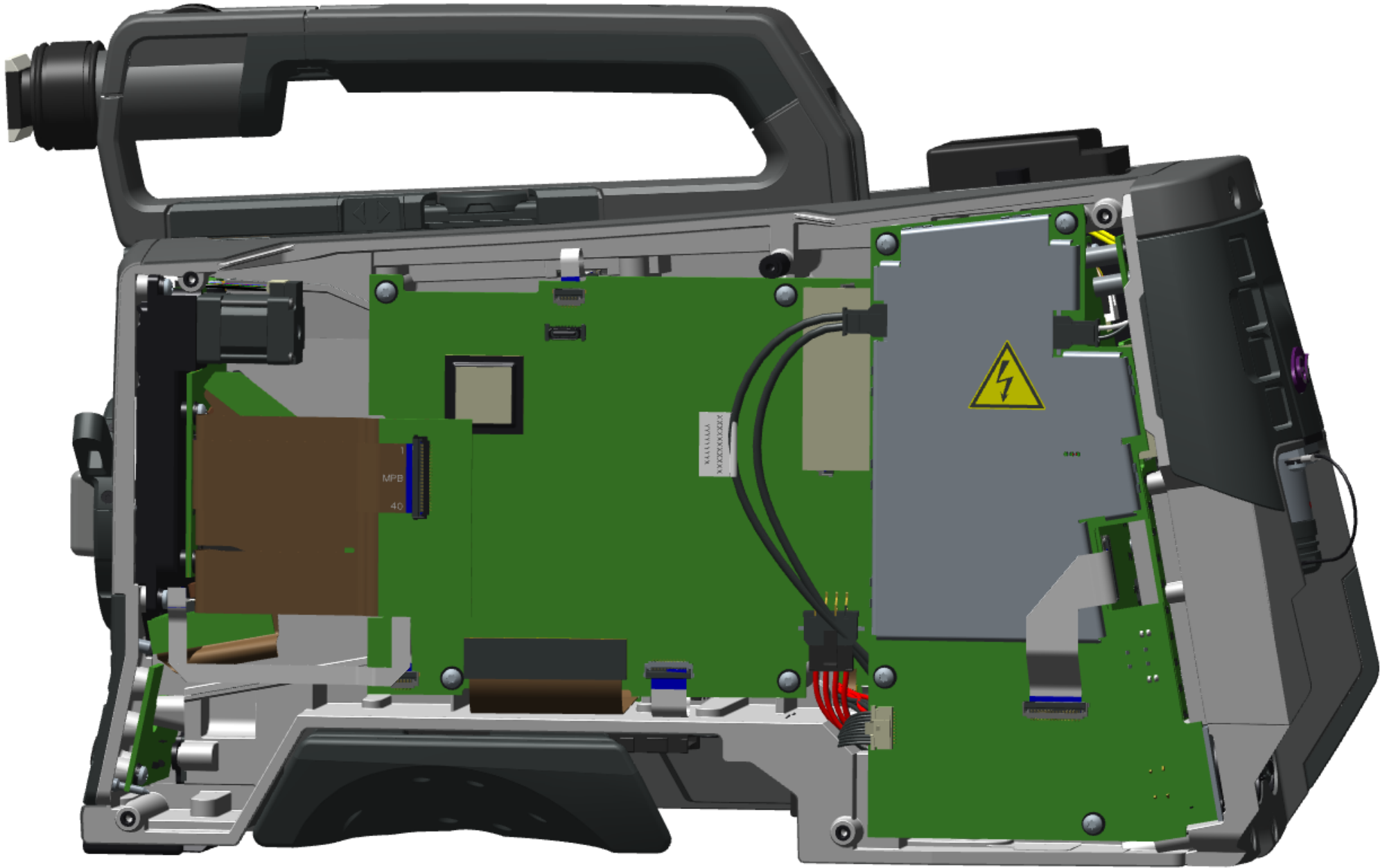
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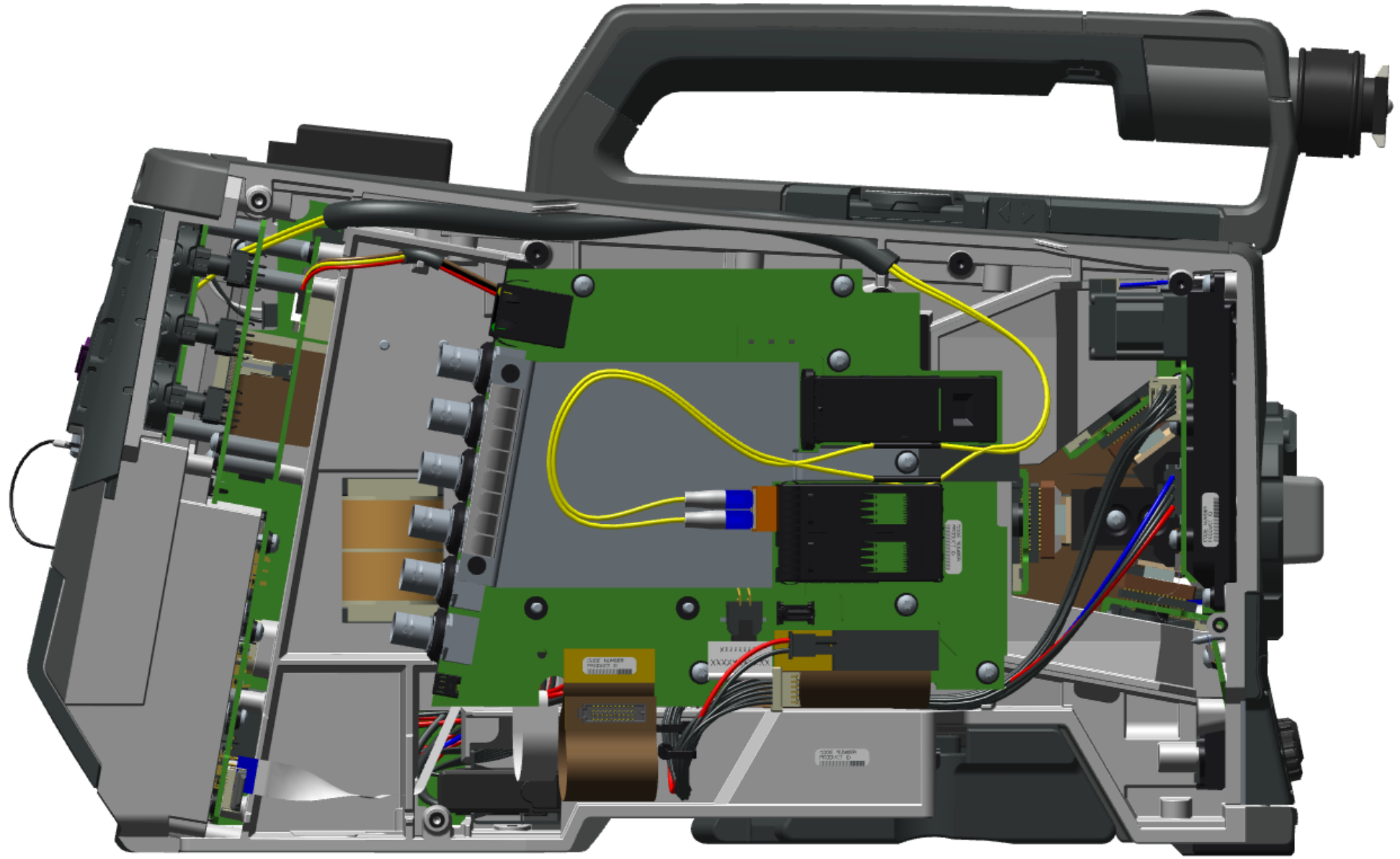
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