



Replaceable Parts Catalog



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Disposal of Waste Electrical and Electronic Equipment and/or Battery by users in private households in the European Union.

This symbol on the product or on the packaging indicates that when last user wishes to discard a product, it must be sent to appropriate facilities for recovery and recycling. For more information about recycling of this equipment and/or battery, please contact the equipment supplier.

The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.



Environmental Policy

Service personnel should dispose of replaced printer parts and waste liquids according to the laws and regulations of the local authority. Where possible, waste should be recycled.

For more detailed information regarding these recommended procedures, refer to your regional Kornit support office or distributor.

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Revision History¹

Date	Change Description	By	Revision No.
25-Feb-2014	Added 33-SPRY-0015 Spray Tank Assembly	Joanna Krashniker	3.1
18-Mar-2014	Updated (including adding Spray Tray Assemblies)	Joanna Krashniker	3.2
6-July-2014	Removed: Returning Parts Procedure Added: Preparing Parts for Shipping Procedure Added Spray Tray Assembly Replaced: 23-STRT-0001 with 23-KNOB-0002 Updated: Spray Assembly 33-SPRY-0036 Added: 33-MONT-0001	Joanna Krashniker	3.3
11-Nov-2014	Contact Details Updated. Removed: 03-DEGS-0004; Added: 33-DGAS-0007 Removed: 06-MPLX-0001; Added: 06-MPLX-0002 Removed: 33-VALV-0011; Added: 03-TAPN-0006 33-DGAS-0008: Part description corrected (Degassing Square Connector) Added: 17-SEAL-0008, 17-SEAL-0009 Removed: 33-PUMP-0008 Removed: 09-CABL-0401, 09-CABL-0402, 09-CABL-0403, 09-CABL-0404, 09-CABL-0405, 09-CABL-0406	Joanna Krashniker	3.4
10-May-2015	Removed: 03-TAPN-0006; Added: 33-VALV-0011-S Added: 83-SWAB-0002; 03-RING-0003; 33-TOOL-0001 Removed: 06-COMP-9510; Added: 06-COMP-9510-S Removed: 33-SPRG-0004; Added: 33-SPRG-0012 Added: 33-TANK-0069 Removed: 09-KEAS-1110; Added: 09-KEAS-5011 Added: 50-DCPR-0301, 50-DCFL-0301 Added: 23-UPGR-0040, 23-UPGR-0078 Updated: Contact Us & Copyright etc. Details Removed: 33-FLTR-0380; Added: 33-FLTR-2380 Removed: 42-ENCA-0007; 42-ENCA-0008; 42-CLAM-0001;	Joanna Krashniker	3.5

¹ Last 5 Revisions

Table of Contents

Copyright	2
Covers	8
Hood Assembly (33-HOOD-0951)	8
Emergency Switch (23-SWTC-0002)	8
Front View	9
Start Button Assembly (23-KNOB-0002)	9
Computer	9
Pneumatic System (33-PNEM-0004)	10
Pallets	12
Standard Pallet Assembly – Top Side (33-TABL-0002)	12
Sleeve Table (33-PALT-0004)	13
Grand Pallet Assembly (33-PALT-0015)	13
500 x 700 Pallet (33-PLAT-0020)	14
Magnetic Sleeve Pallet Assembly (33-PALT-0012)	14
Children's Pallet Assembly (33-PALT-0008)	15
Universal Magnetic Pallet Assembly (33-PALT-0006)	16
60 x 90 Pallet Assembly (36-PLAT-0176)	17
Hat Pallet Assembly (33-HATT-0001)	18
Tote Bag Pallet (33-PALT-0013)	18
Spray Tray Assemblies	19
The Axes	20
X1 and X2 Axes (33-XAXS-0003 and 33-XAXS-0004)	21
Y1 and Y2 Axes (33-YAXS-0003 and 33-YAXS-0004)	24
Z1 and Z2 Axes (33-AXIS-0017 and 33-AXIS-0016)	26
Left View	27
Main Power Switch (06-ELSW-0002)	27
Lower (Bulk) Ink System (33-INKB-0006 & 33-INKB-0015 - Discharge)	28
Ink System (33-INKB-0015) For Discharge Machine	29
Spitting Tray (33-SPIT-0002)	31
Compressed Air Connection	31
Spray Assembly (33-SPRY-0036)	32
Right View	34
Maintenance Assembly (33-MAIN-0020)	35
Maintenance Lift Piston (33-PIST-0002)	37
Y1 and Y2 Electronic boxes (33-EBOX-0010 and 33-EBOX-0012)	37
Rear View	38
Print Head Carriages (33-PHAD-0020 & 33-PHAS-0023)	39
Electrical Cabinet (06-PCAB-0008)	41
Sprinkler (Upper Spray) Assemblies – Right & Left	43
Chemicals	46
Accessories	47
Flushing (Jacob) Bottle (930-55-00-000)	47
Maintenance Kits & Upgrades	48

Cables 49
 Cable Map – PLC..... 49
 Cable Map – Data and Motion 50
Appendix: Preparing Parts for Shipping Procedure 54

Introducing the Kornit Avalanche Parts Catalog

This catalog comprises comprehensive, illustrated lists of all the replaceable parts of the Kornit Avalanche printers.

The part tables that follow correspond with the different systems of the printing machine and their location. The following details are shown:

- Item Number — where applicable, referring to the related photograph or drawing
- Catalog #
- Part Description

At the end of the document, you will find a copy of Kornit's Returning Parts Procedure (including details how to pack print heads and electronic boards when returning them to Kornit).

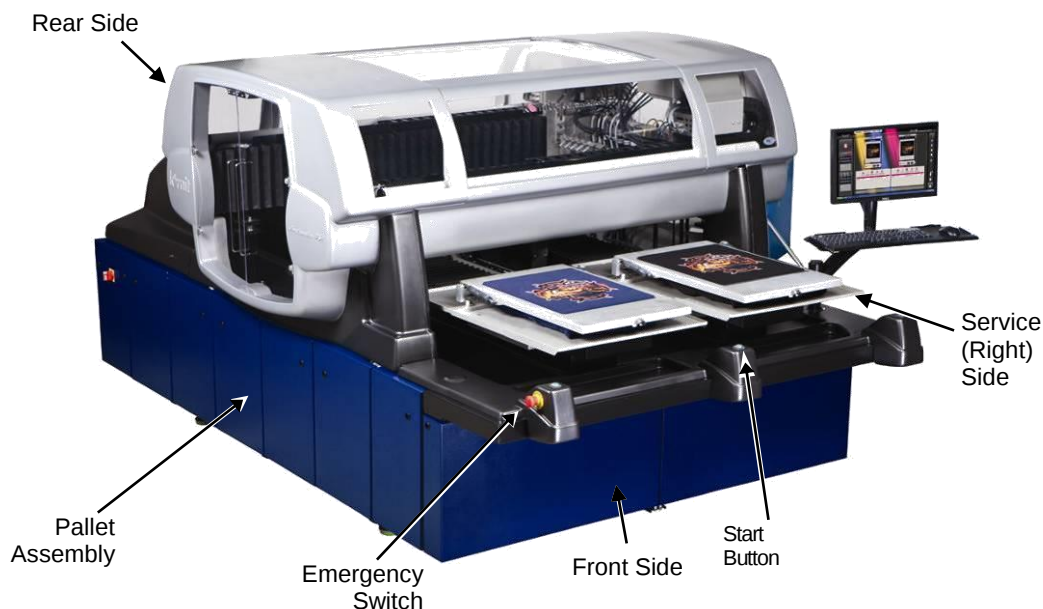


Note:

- The photographs shown in this document were taken under factory conditions and as such, certain items may appear in the background that is unrelated to the specified parts.
- The printer is under constant development and Kornit reserves the right to make design changes that are not yet documented.

Overview

The image below shows the front and left view of the Avalanche printer. To view the rear and right sides of the printer, refer to the Rear View section on page 38 and the Right View section on page 34 respectively.

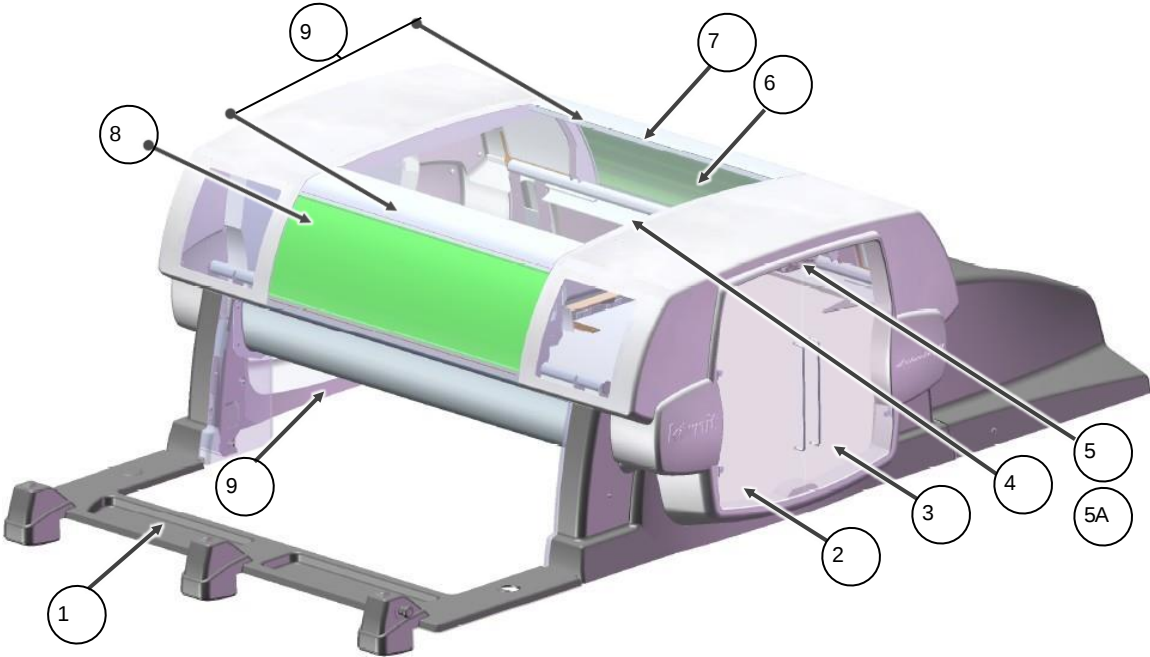


Front and Right View of Kornit Avalanche

Parts

Covers

Hood Assembly (33-HOOD-0951)



#	Catalog #	Description
1	33-CONS-0001	Console Assembly highest
2	33-WIND-0009	L Side Window Door Assembly
3	33-WIND-0009	R Side Window Door Assembly
4	39-RULR-0004	Upper Window Short Ruler
5	06-INTL-0004	Interlock D4NS-1AF
5A	39-PLAT-0128	Interlock Nut Plate
6	39-WIND-0019	Upper Window
7	39-RULR-0003	Upper Window Long Ruler
8	39-WIND-0022	Mid Hood Window
9	33-HOOD-0010	Hood Construction Assembly

Emergency Switch (23-SWTC-0002)

(Left and Right Side)



5



4



3



2



1

#	Catalog #	Description
1	32-0080	Emergency Stop
2	32-0085	Emergency Stop Sticker
3	32-0081	Button House
4	32-0082	Emergency Contact N.C.
5	32-0083	Emergency Contact N.O.

Front View

Start Button Assembly (23-KNOB-0002)

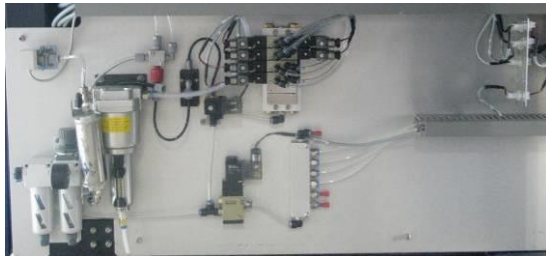


#	Catalog #	Description
1	32-0084	Start Button – Green
2	32-0081	Button House
3	32-0083	Emergency Contact N.O.

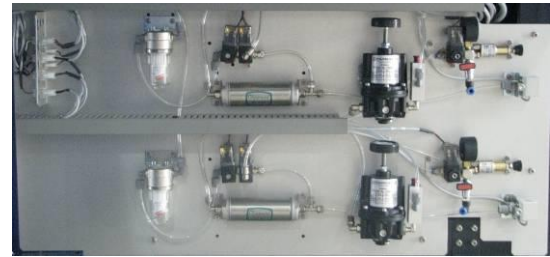
Computer

#	Catalog #	Description
1	06-COMP-9510-S	Computer
2	06-EBRD-4050	Kornit PCI Data Card (Elec V2)-High Speed

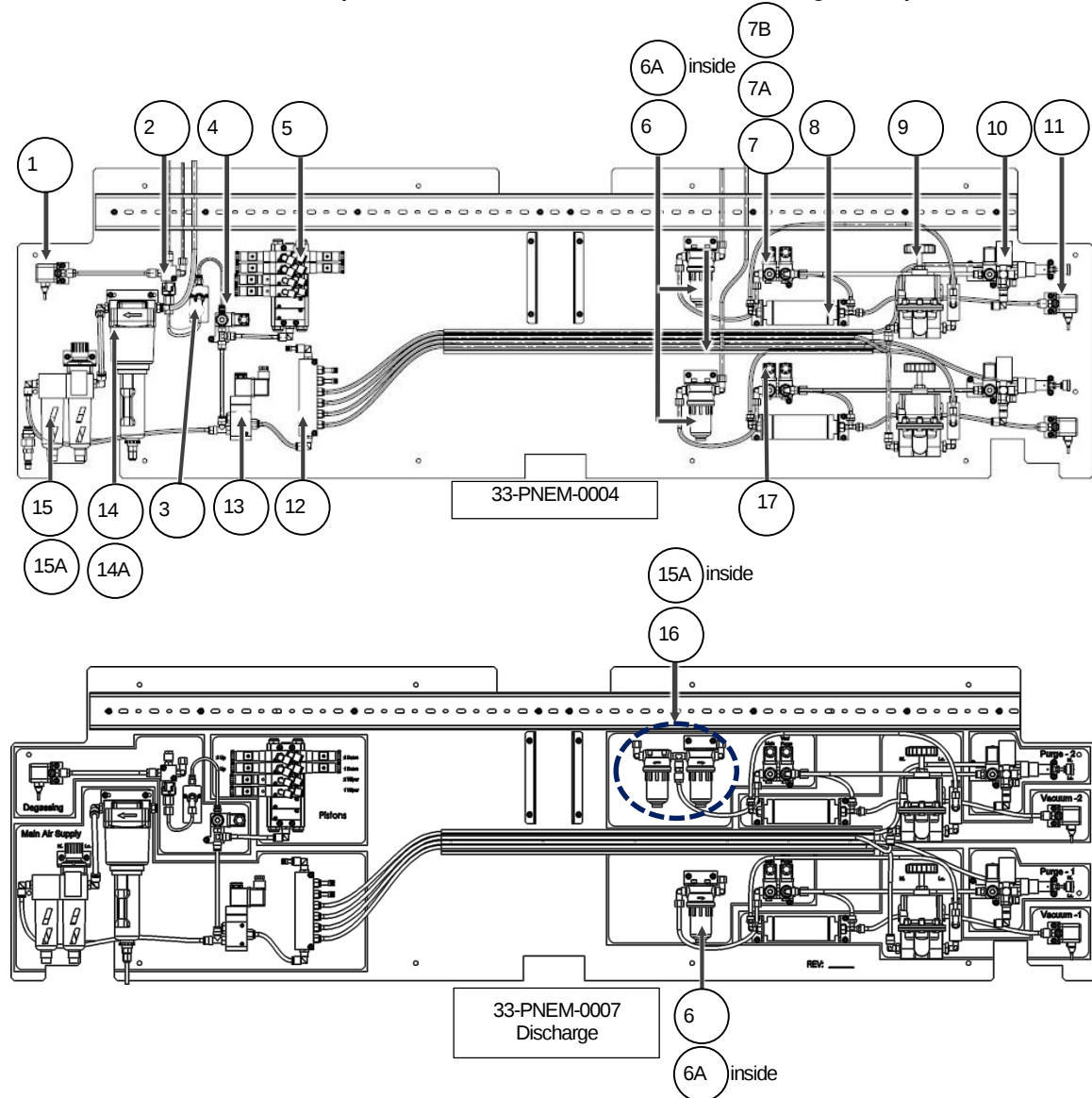
Pneumatic System (33-PNEM-0004)



Lower Front Left Compartment



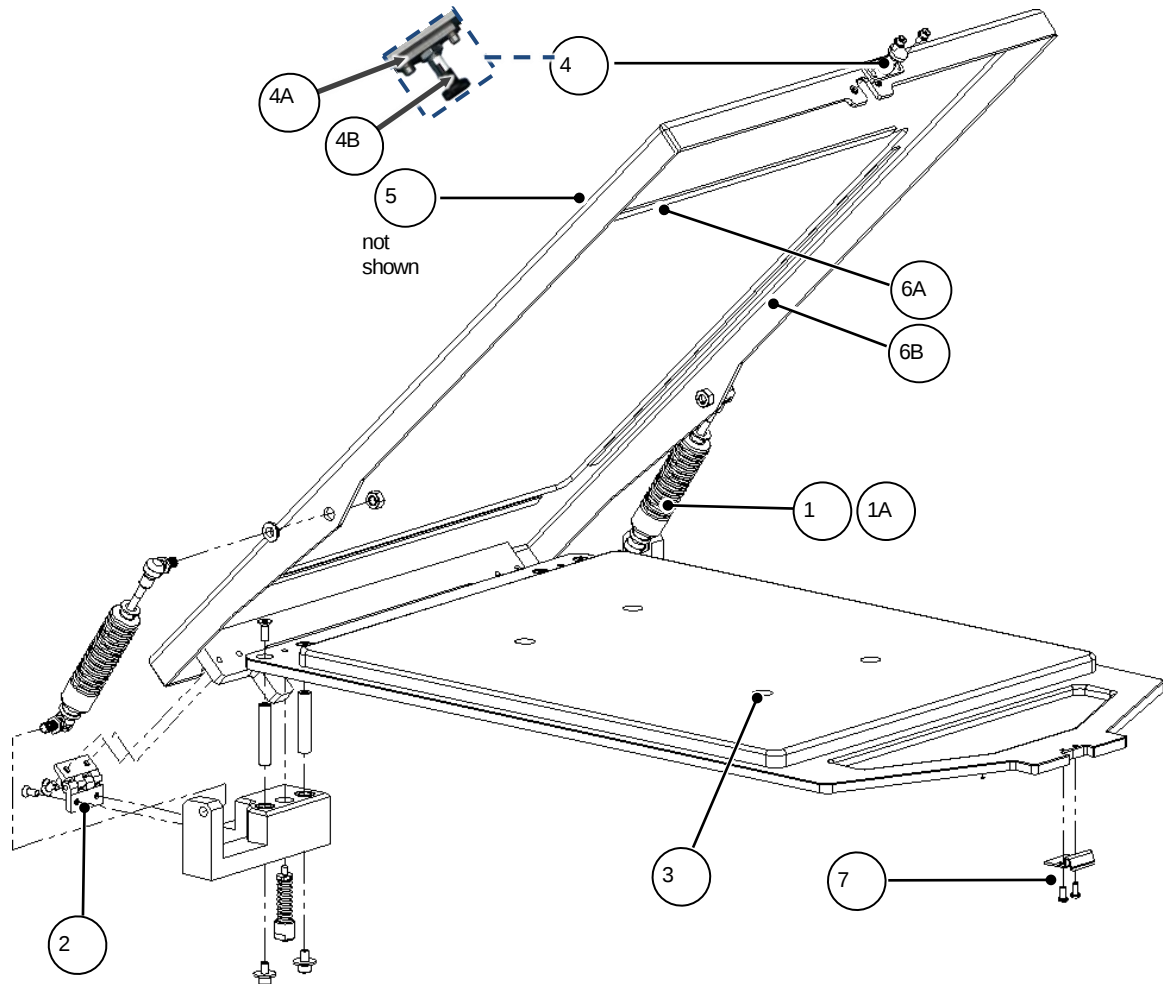
Lower Front Right Compartment



#	Catalog #	Description	
1	09-KEAS-1061	Degassing Vacuum Sensor inc Cable EAS-61	
2	33-DGAS-0008	Degassing Square Connector	
3	33-DEGS-0002	Degassing Vacuum Generator Ass	
4	33-DGAS-0003	Degassing Valve Ass	
5	33-MNFD-0031	6-Valve Manifold Assembly	
6	33-VACU-0003	Vacuum Filter Assembly - For Avalanche; For Avalanche DC, use 33-VACU-0015 (No. 16 below)	
6A	03-FLTR-0108	Vacuum Filter Camozzi (Replaceable inside); For Avalanche DC, use 03-FLTR-0009, (No. 15A below)	
7	33-VALV-0005	Electric Valve Assembly	
7A	03-COIL-0001	24V DC 5W Valve Coil	
7B	03-VALV-1001	Complete Plunger Assembly Spring gr. 155 + Plunger Body (inside 03-COIL-0001)	
8	33-VACU-0011	Vacuum Container Assembly	
9	03-VERG-0002	700 Regulator Assembly	
10	33-REGU-0006	800 Regulator Assembly	
11	33-SENS-0014	Digital Pressure (Vacuum) Sensor - Wired	
12	33-MNFD-0032	6-Port Manifold Assembly	
13	03-SOLO-0001	Electric Spring 3/2 Valve	
14	33-FLTR-0005	SAMG Filter	
14A	03-FLTR-0250	Oil Filter Element SAMG250 (Replaceable Inside)	
15	33-MAIN-0016	Main Service Unit	
15A	03-FLTR-0009	Filter 0.01 Micron (Replaceable inside parts 15 for Avalanche and Avalanche DC and instead of 03-FLTR- 0005, inside, 16 for Avalanche DC)	
16	33-VACU-0015	DC Vacuum Filter Assy (for Discharge machine instead of 6) – Shown in second image	
17	06-ECON-0001	Coil Connector with LED 24V	

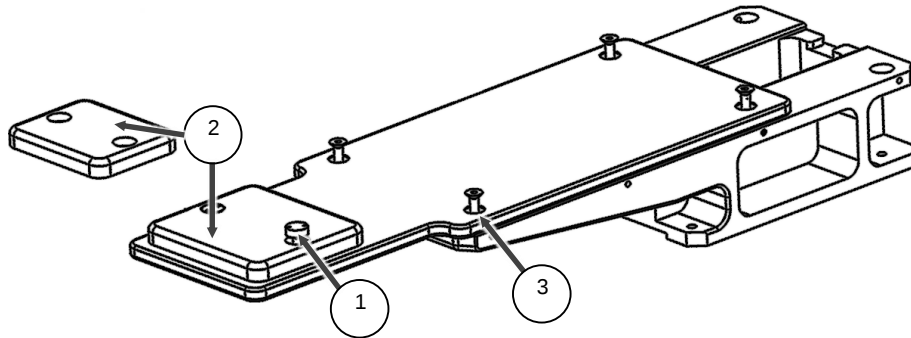
Pallets

Standard Pallet Assembly – Top Side (33-TABL-0002)



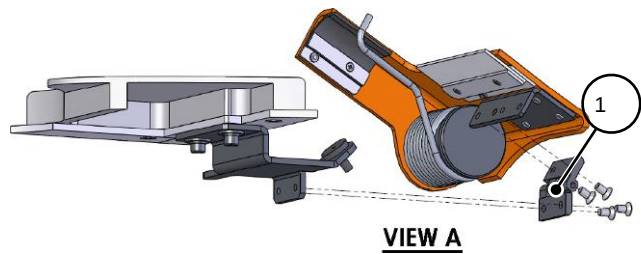
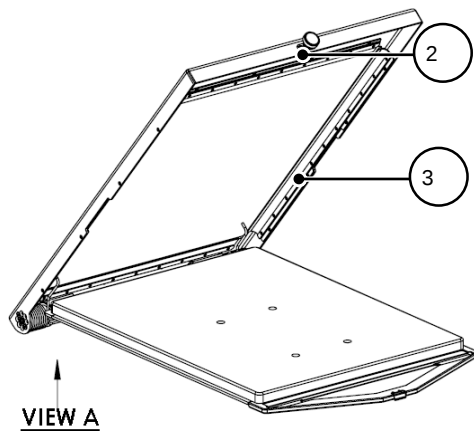
#	Catalog #	Description	
1	33-GASS-0100	Gas Spring 100nm with Bellow	
1A	45-BLOW-0530	Bellow for Gas Spring	
2	45-HING-4040	Hinge	
3	36-SCRW-0011	Pallet Screw	
4	33-PLNG-0001	Plunger Assembly	
4A	39-PLAT-0006	Locking Plate	
4B	49-KNOB-0717	Pallet Knob (Index Plunger GN 717-5-B)	
5	01-STRP-0000	Sticky Strip for Protecting Garment from Spray Drips (outside): 10(W) x 2mm (H)	
6A	01-STRP-0000	Sticky Strip for Garment Tightening (inside) 10(W) x 2mm (H); Length: 350mm	
6B		Sticky Strip for Garment Tightening (inside) 10(W) x 2mm (H); Length: 450mm	
7	39-LOCK-0010	Lock	
8	09-KEAS-2030	Pallet Sensor Cable (32-0112)	

Sleeve Table (33-PALT-0004)



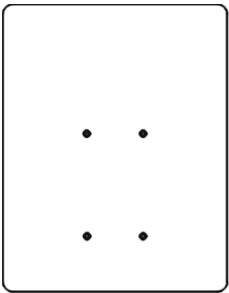
#	Catalog#	Description	
1	36-PLAT-0106	Pallet Screw - Short L=20mm	
2	36-PLAT-0101	102 x 114mm Sleeves Plate	
	36-PLAT-0048	75 x 95mm Sleeves Plate	
3	45-CSKS-0616	Screw M6 x 16	

Grand Pallet Assembly (33-PALT-0015)

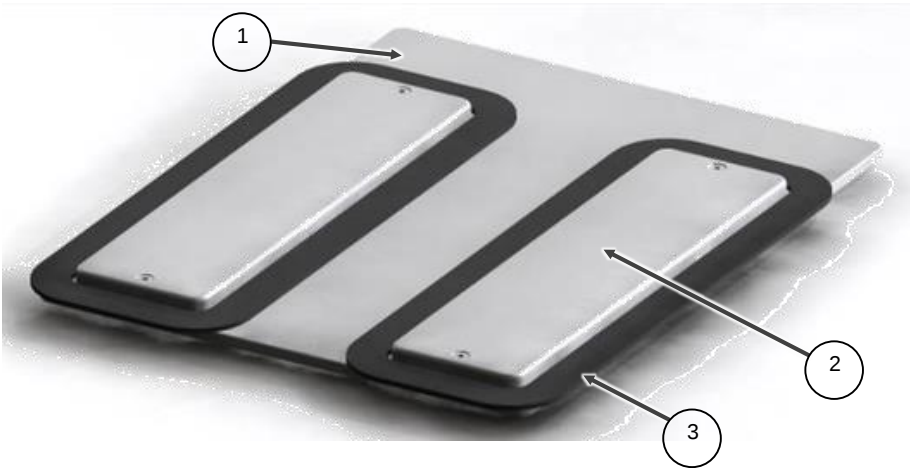


#	Catalog #	Description	
1	45-HING-4040	Hinge GN 237.5-40-40	
2	49-KNOB-0005	Clamping Knob with Indexing Plunger	
3	33-STRP-0001	Pressure Strap Assembly 1	

500 x 700 Pallet (33-PLAT-0020)

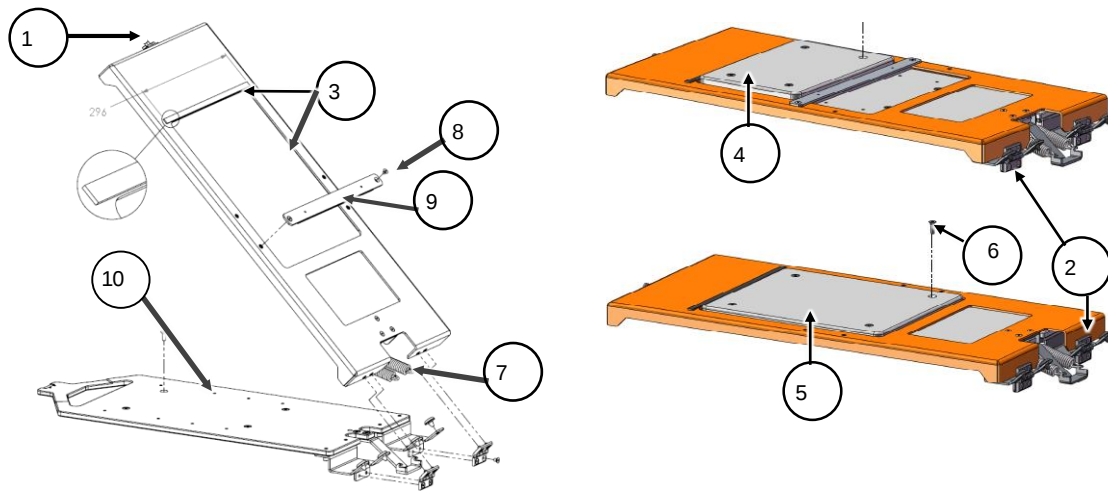


Magnetic Sleeve Pallet Assembly (33-PALT-0012)



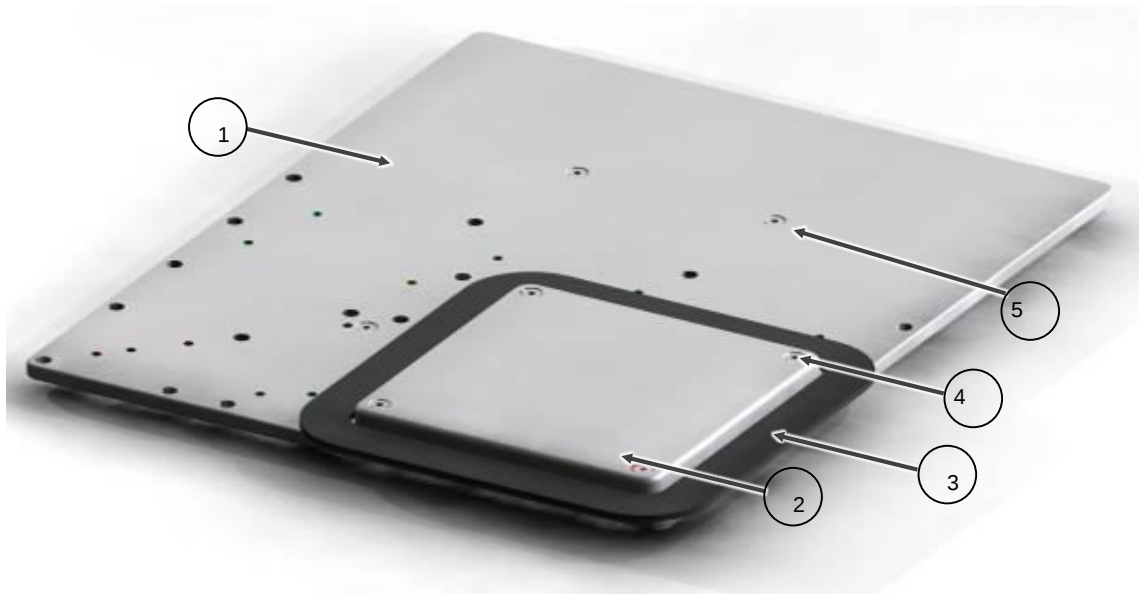
#	Catalog#	Description	
1	36-PLAT-0065	Magnetic Sleeve Pallet Plate	
2	36-PLAT-0066	Plate 110mm x 130mm for Short Sleeve (not seen)	
	36-PLAT-0067	Plate 110mm x 400mm (4 1/3" x 15 1/2") for Long Sleeve	
3	39-FRME-1113	Frame 110mm x 130mm for Short Sleeve (not seen)	
	39-FRME-1114	Frame 110mm x 400mm (4 1/3" x 15 1/2") for Long Sleeve	

Children's Pallet Assembly (33-PALT-0008)



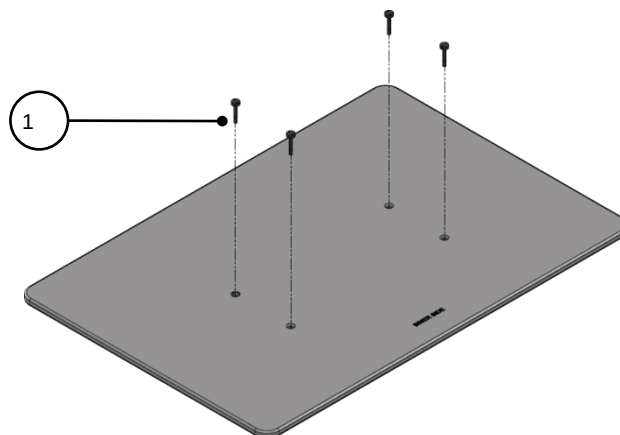
#	Catalog #	Description	
1	49-KNOB-0717	Pallet Knob	
2	45-HING-4040	Hinge GN-237.5-40-40 S-S	
3	01-STRP-0000	Sticky Strip for Protecting Garment against Spray Drips (outside) 10(W) x 2mm (H), Length: 296 mm	
	01-STRP-0000	Sticky Strip for Garment Tightening (inside) 10(W) x 2mm (H); (inside – not shown)	
	01-STRP-0000	Sticky Strip for Garment Tightening (inside) 10(W) x 2mm (H); (inside – not shown)	
4	36-PLAT-0123	Plate 190 x 270 mm for Spring Children's Pallet	
5	36-PLAT-0124	Plate 330 x 270 mm for Spring Children's Pallet	
6	45-CSKS-0620	Top Plate Bolt M6 x 20	
7	45-SPRG-0005	Extension spring	
8	45-CSKS-0506	Bar Assembly Bolt – Countersunk Screw M5 x 6	
9	33-TBAR-0001	Top Bar Assembly	
10	45-CSKS-0616	Countersunk Screw M6 x 16	

Universal Magnetic Pallet Assembly (33-PALT-0006)



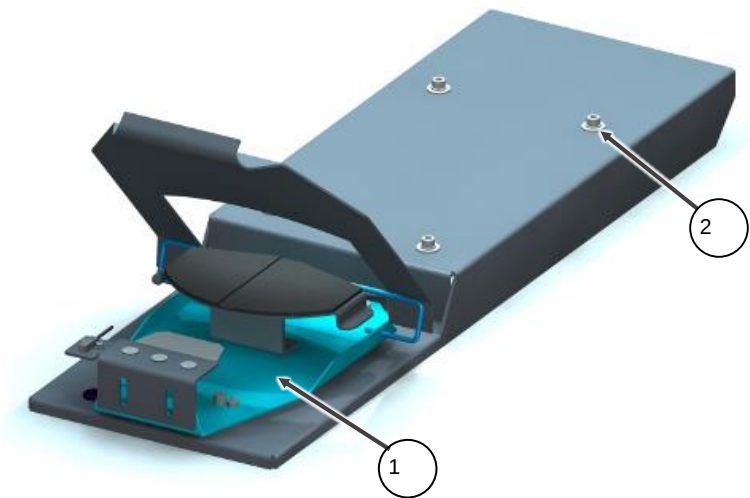
#	Catalog#	Description	
1	36-PLAT-0064	Magnetic Pallet Plate	
2	36-PLAT-7070	70 x 70(mm) Plate	
	36-PLAT-0140	140 x 140 Plate	
	36-PLAT-2114	210 x 140 Plate	
	36-PLAT-2121	210 x 210 Plate	
	36-PLAT-2828	280 x 280 Plate	
3	39-FRME-7070	70 x 70 Frame	
	39-FRME-1414	140 x 140 Frame	
	39-FRME-2114	210 x 140 Frame	
	39-FRME-2121	210 x 210 Frame	
	39-FRME-2828	280 x 280 Frame	
4	45-CSKS-0620	Bolt M6 x 20 (Top Plate Holder)	
5	45-CSKS-0616	Bolt M6 x 16 (Base Plate Holder - not shown)	

60 x 90 Pallet Assembly (36-PLAT-0176)



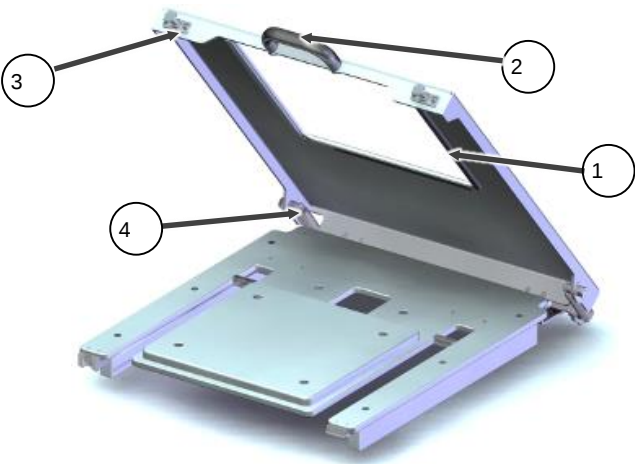
#	Catalog #	Description	
1	36-SCRW-0011	Screw	

Hat Pallet Assembly (33-HATT-0001)



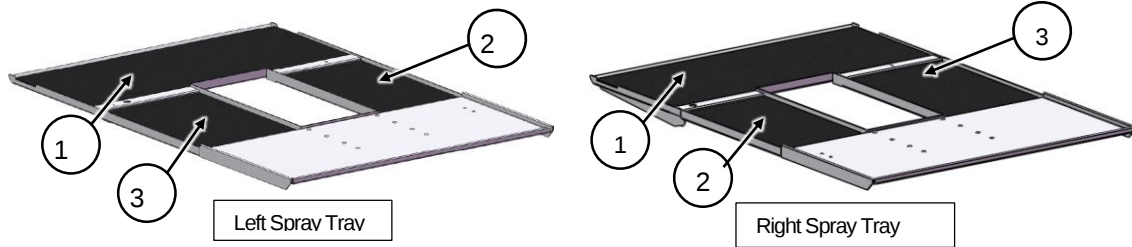
#	Catalog#	Description	
1	33-HATT-0002	Hat Pallet	
2	45-CSKS-0616	Bolt M6 x 16 (Main Plate Holder)	

Tote Bag Pallet (33-PALT-0013)



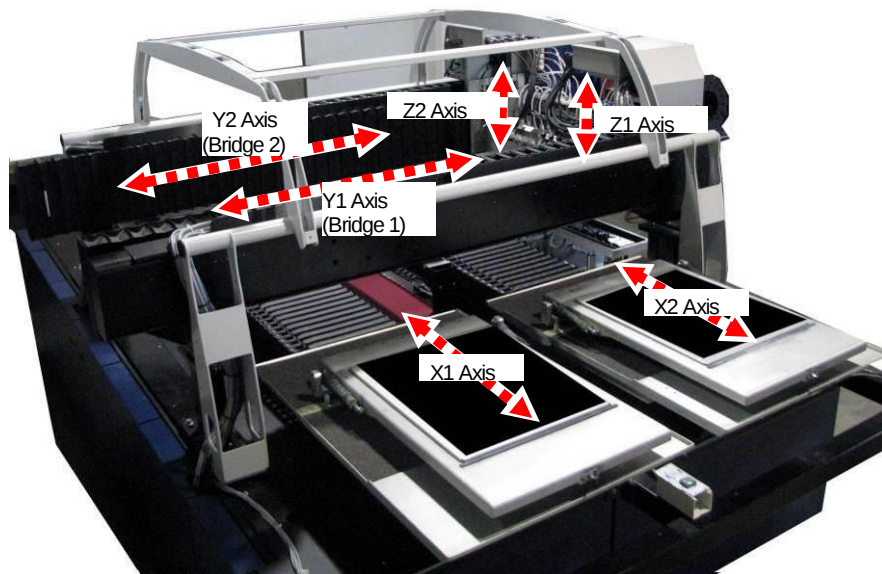
#	Catalog#	Description	
1	01-STRP-0000	Sticky Strip 255mm	
2	49-HADL-0005	Handle	
3	33-PLNG-0001	Plunger Assembly	
4	45-SPRG-0005	Extension Spring	

Spray Tray Assemblies



#	Catalog#	Description	
1	39-FOAM-0002	Spray Table Flexible Foam #1	
2	39-FOAM-0003	Spray Table Flexible Foam #2	
3	39-FOAM-0004	Spray Table Flexible Foam #3	

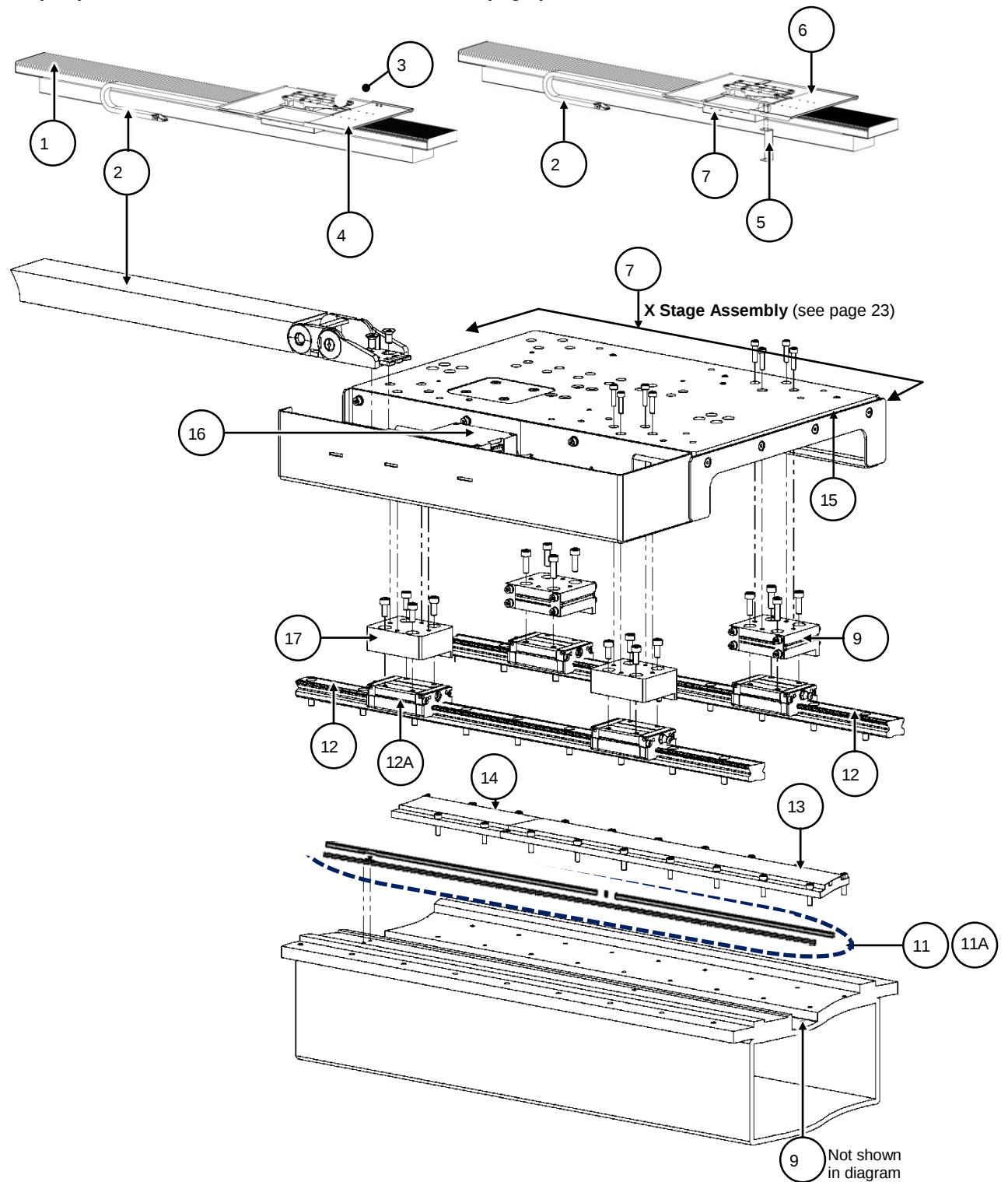
The Axes

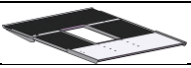
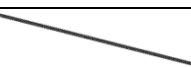
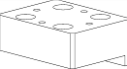


X1 and X2 Axes (33-XAXS-0003 and 33-XAXS-0004)

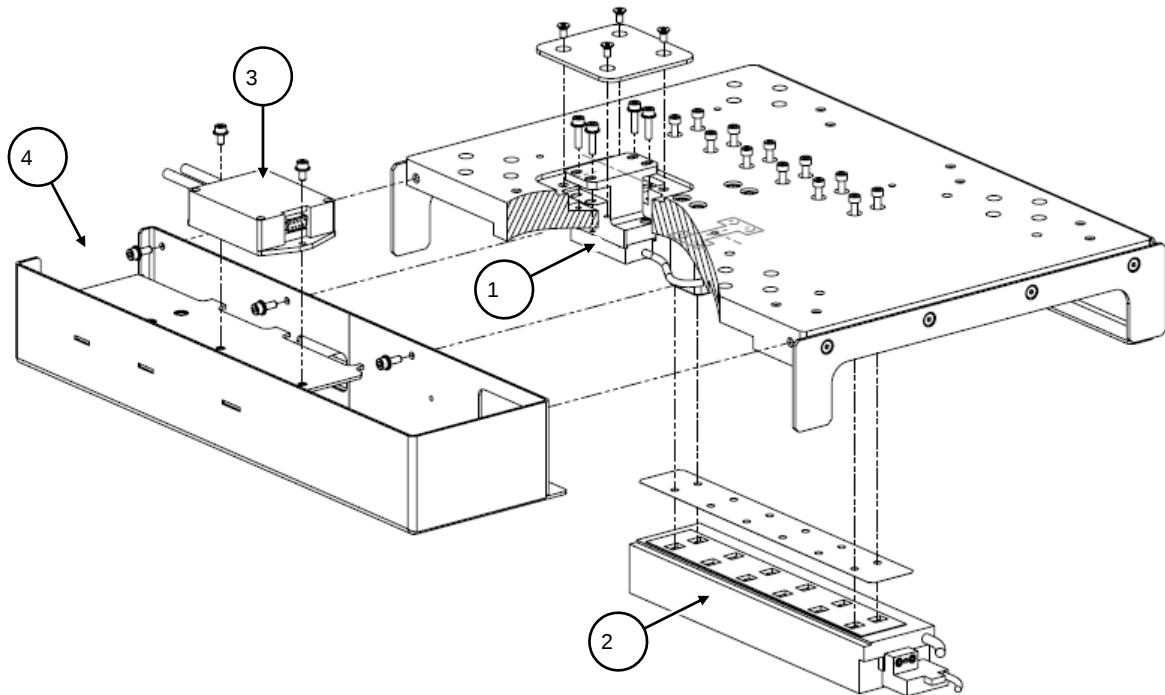
X1 (Left) 33-XAXS-0003

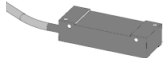
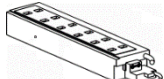
X2 (Right) 33-XAXS-0004



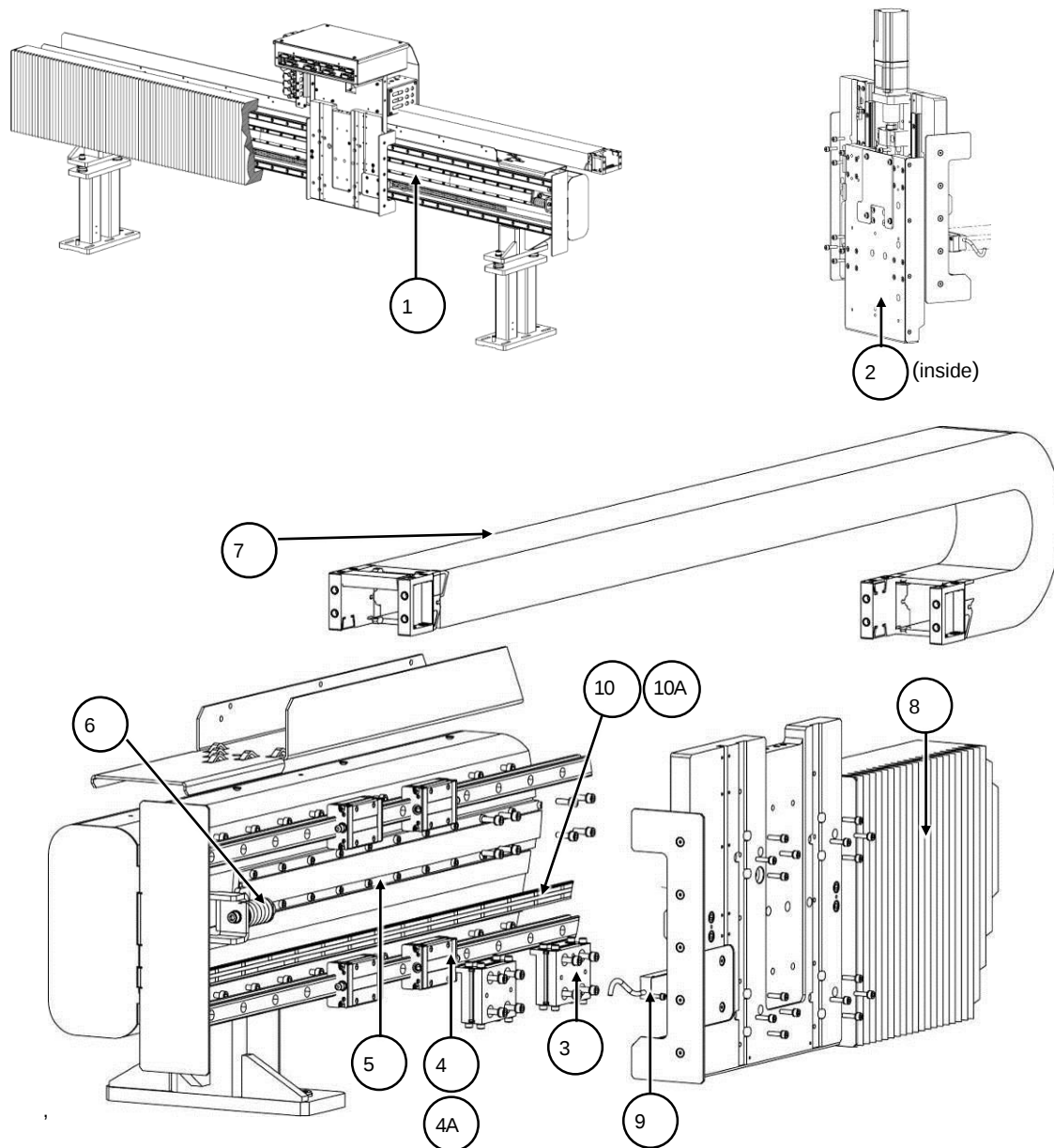
#	Catalog #	Description	
1	42-BELW-0002	X Bellow	
2	42-CBLC-0011	Cable Carrier 47 Links 1621 mm + Fix & Drv Conn.	
3	33-SUPO-0007	X1 (left) Table Support Assembly	
4	33-TRAY-0007	Left Spray Tray Assembly	
5	39-LOCK-0004	X Axis Locking Bracket for shipment	
6	33-TRAY-0008	Right Spray Tray Assembly	
7	33-XSTG-0001	X Stage Assembly (see below)	(see below)
8	33-SHOK-0007	Shock Absorber Assembly (Not shown in diagram)	
9	33-BLOK-0001	Floating Block Assy.	
10	39-EXTN-0001	Bellow Extension (Not shown in diagram)	
11	42-ENCS-0001	X Axis Encoder Rail	
11A	42-ENCT-0003	Coated Steel Tape Scale 2455mm	
12	42-LMBR-0010	Linear Rail 3080mm Type SSR20XW2 incl. Blocks	
12A	42-BLOK-0020	Bearing for Linear Rail THK (X Axis)	
13	42-MGST-0003	Magnet Strip - 35 x 756 (SGLFM-35756a)	
14	42-MGST-3540	Magnet Strip - 35 x 540 (SGLFM-35540a)	
15	39-SEAL-0001	X Sealing Layer	
16	06-CONV-0077	Serial Convertor	
17	36-BLOK-0001	Bearing Block	

X Stage Assembly (33-XSTG-0001)

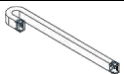


#	Catalog #	Description	
1	42-ENCR-2004	Encoder Reader	
2	42-LMDR-0041	Linear Motor including wire connector	
3	06-CONV-0077	Serial Convertor	
4	09-CABL-0006	MECHATROLINK-II Communication Cable 0.5M	
	09-CABL-0014	G1 SIGMA-5 Incr. Encoder Cable JV/AV 5M	
	09-CABL-0017	SIGMA V Servo Motor with Brake Power Cable 5M	
	09-CABL-0022	MECHATROLINK-II Communication Cable 3M	
	09-CABL-0040	Power Cable for Linear Motor JZSP-CLN11-05(A)	
	09-CABL-0068	Encoder Cable L = 5m (X,W,Y axis) YL-0068	

Y1 and Y2 Axes (33-YAXS-0003 ad 33-YAXS-0004)



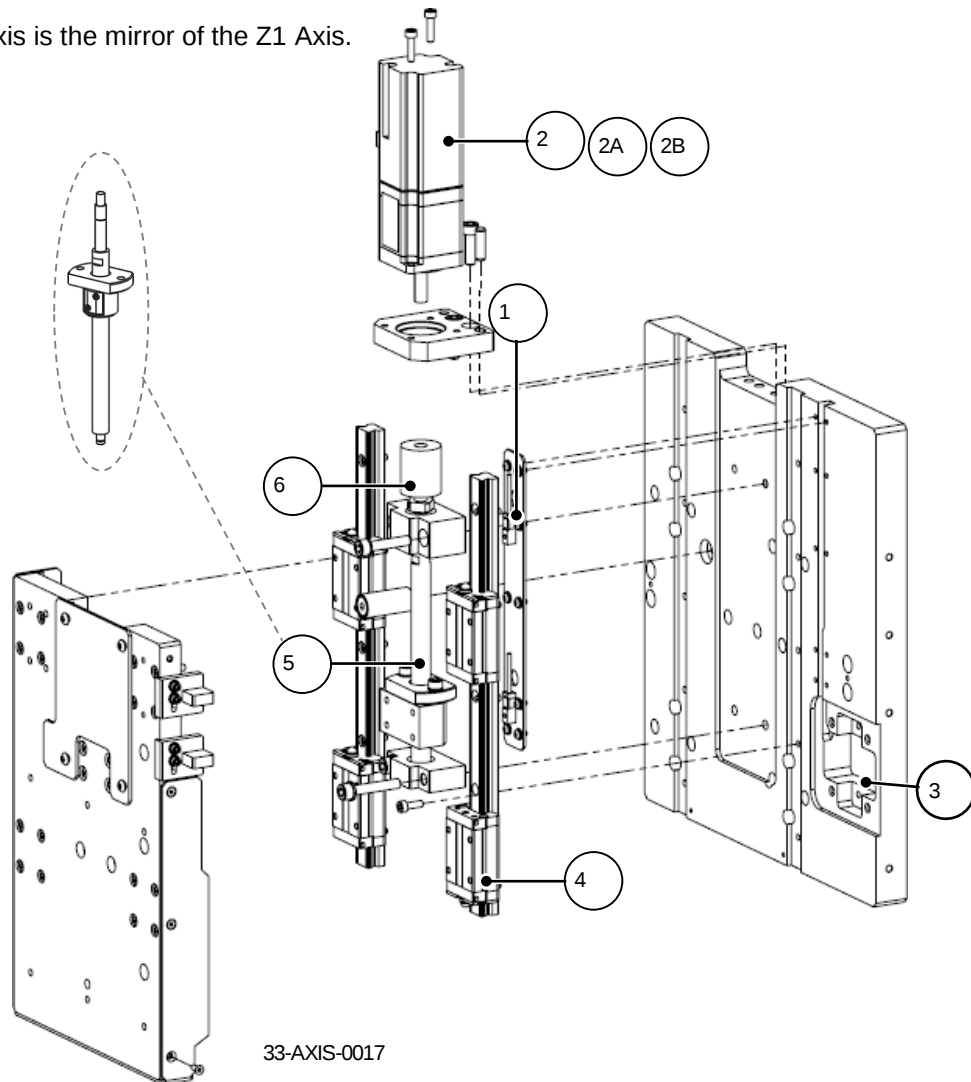
#	Catalog #	Description	
1	42-MGST-2756	20 x 756 Magnet Track	
2	42-LMDR-0002	Linear Motor - Old part no.: 35-0013 (not shown)	
3	33-BLOK-0001	Floating Block Assembly	
4	42-LMBR-0002	Linear Rail 2150 mm & 2 LM Blocks Model SSR incl. Blocks	
4A	42-BLOK-0020	Bearing for Linear Rail THK	
5	42-MGST-2324	20 x 324 Magnet Track	
6	33-SHOK-0006	Y Shock Absorber Assembly	

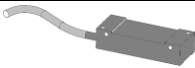
#	Catalog #	Description	
7	42-CBLC-0007	Cable Carrier 47 Links	
8	42-BELW-0003	Y Bellow Avalanche	
9	42-ENCR-2004	Encoder Reader	
10	42-ENCS-0002	Y Axis Encoder Rail	
10A	42-ENCT-0009	Coated Steel Tape Scale 1815mm	

Z1 and Z2 Axes (33-AXIS-0017 and 33-AXIS-0016)

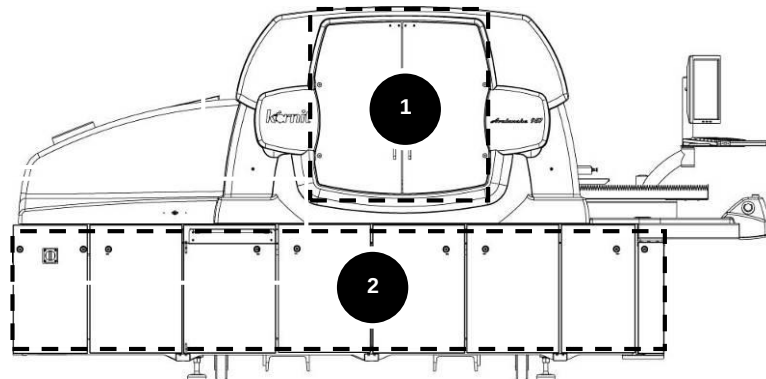
Note:

The Z2 Axis is the mirror of the Z1 Axis.



#	Catalog #	Description	
1	09-CABL-0001	Limit Sensor Cable K-EAS-21	
2	42-MOTR-0007	AC Servo Motor + Brake	
2A	09-CABL-0018	Encoder Cable for Z1 Motor	
2B	09-CABL-0017	Encoder Cable for Z2 Motor	
3	42-ENCR-2004	Encoder Reader (not shown in diagram)	
4	42-BLOK-0010	Bearing for Linear Rail	
5	42-SCRW-0001	Leading Screw M	
6	42-COUP-0010	Coupling w7c25-6-8-s.s	

Left View



Spit Tray



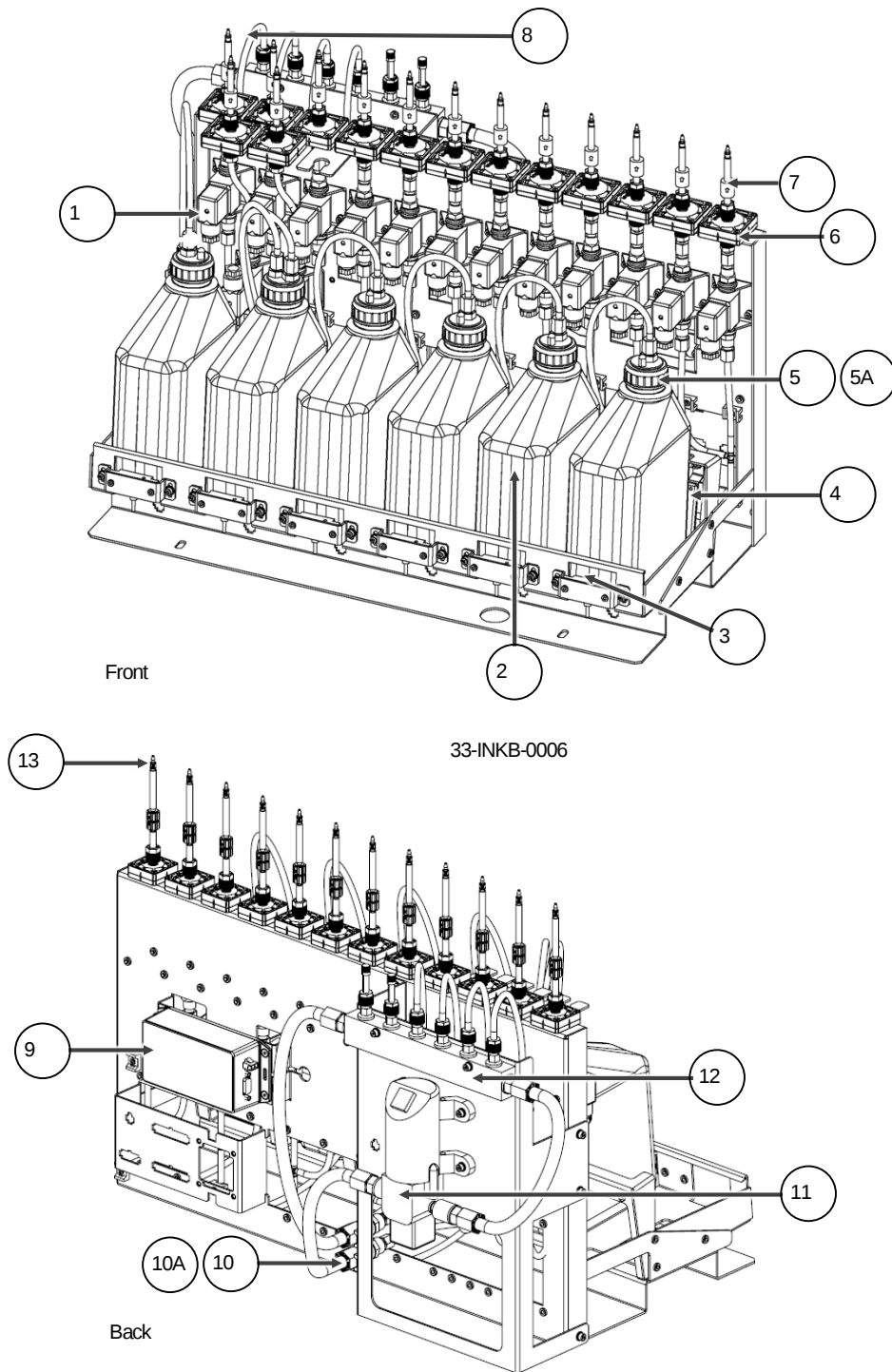
Lower Left Side View

Main Power Switch (06-ELSW-0002)

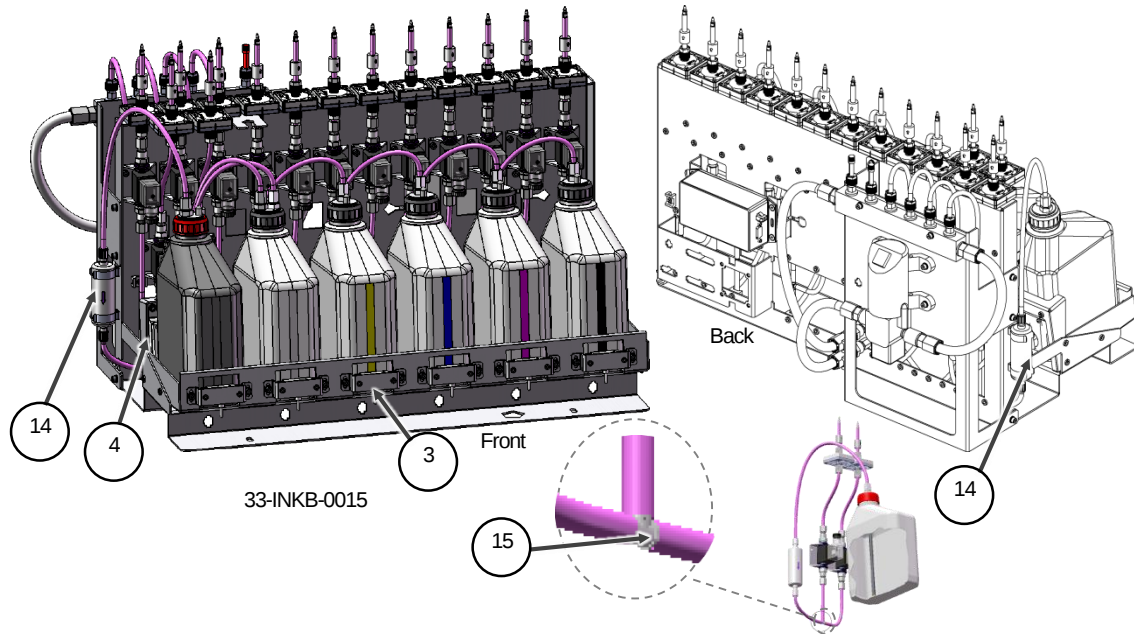


#	Catalog#	Description
1	06-ELSW-0002	Main Power Switch

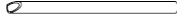
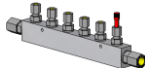
Lower (Bulk) Ink System (33-INKB-0006 & 33-INKB-0015 - Discharge)



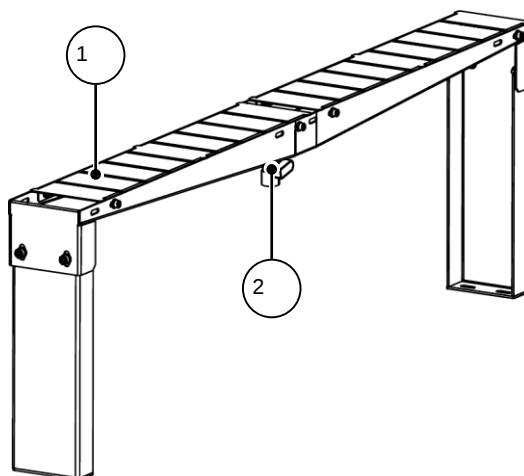
Ink System (33-INKB-0015) For Avalanche DC Pro



#	Catalog #	Description	
1	33-PUMP-0020	Ink Bulk Pump Assembly	
2	17-TANK-0005	1.5 L Ink Bottle (Empty)	
	50-WBIC-0323	Cyan Water-based Ink FAF 0323	
	50-WBIM-0323	Magenta Water-based Ink FAF 0323	
	50-WBIY-0323	Yellow Water-based Ink FAF 0323	
	50-WBIK-0323	Black Water-based Ink FAF 0323	
	50-WBIW-0301	White Water-based Ink V301	
	50-DCPR-0301	Discharge Pro Ink	
3	09-KEAS-5072	Flat Proximity Sensor, Wired (incl. 06-SNSR-0015)	
4	06-EBRD-0004	HF-ANT-6040 RFID Antenna, Wired	
5	33-INTC-0004	Color Ink Tank Cap	
5A	33-INTC-0003	White Ink Tank Cap	

#	Catalog #	Description	
6	33-FLTR-2380	Filter 38 mm & Plugs	
7	33-VALV-0014	Ball One-way Check Valve Assembly (Replaces part no.: 03-VALV-0007)	
8	03-PIPE-1064	Natural Rilsan PA11 Rigid Hose 6x4 for Ink (To replace all the pipes in 33-INKB-0006, use part no.: 33-TUBE-0003)	
9	06-MPLX-0002	Reader & Multiplexer 8-Channels Enclosure V.3.5.5	
10	03-ADAP-0033	Drilled Female Adaptor Connector	
10A	03-ADAP-0032	Drilled Straight PA 1/4-12 Connection with EPDM Seal	
11	33-PUMP-0013	Wired Circulation Pump with Fittings	
12	33-MNFD-0033	6-Place Flush (White Ink) Manifold	
13	03-FITG-0004	Straight Fitting 6 mm to 4 mm	
14	33-FLTR-0032	Small Capsule Filter Assembly	
15	03-TCON-0005	T-Connector (between ink bottle and pumps)	

Spitting Tray (33-SPIT-0002)



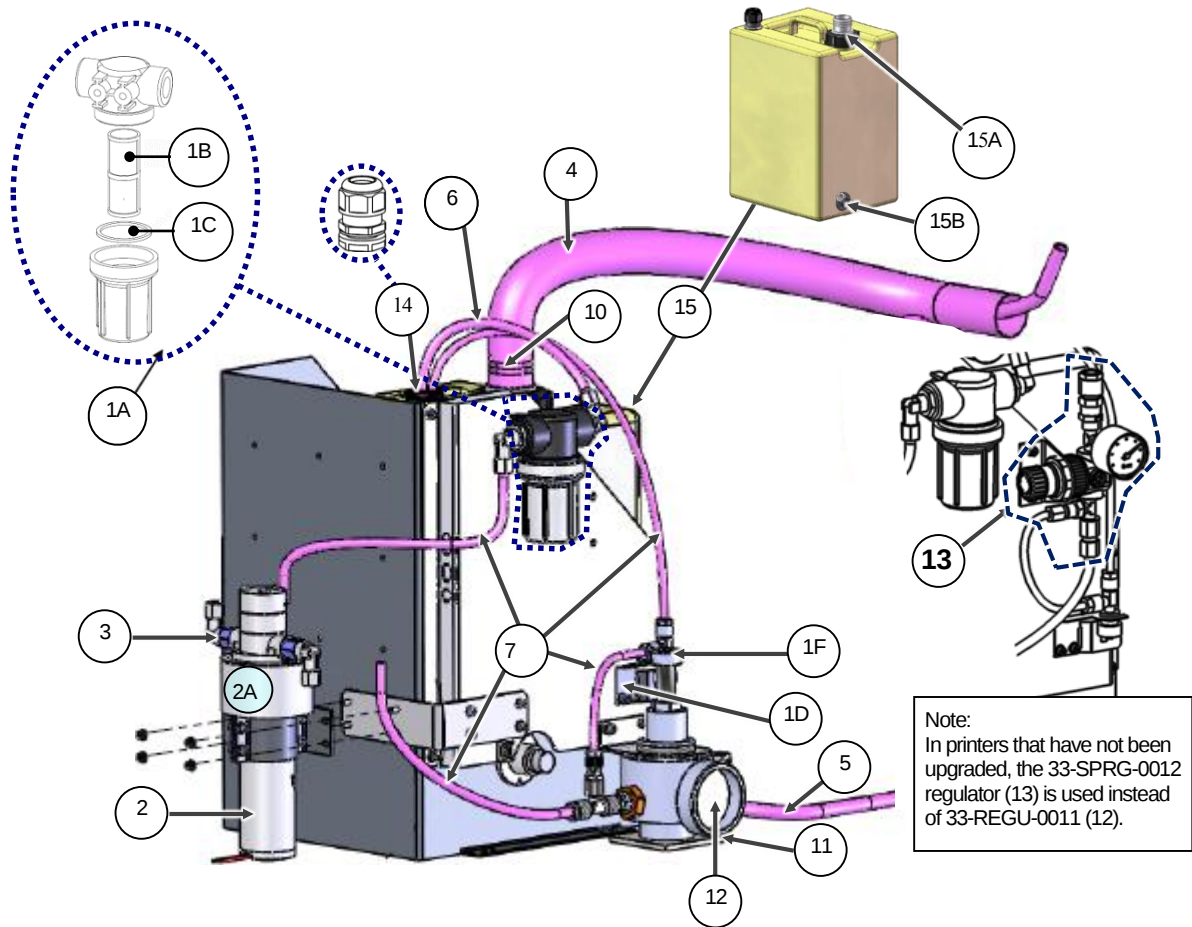
#	Catalog #	Description	
1	39-SPIT-0004	Spitting Surface for Avalanche	
2	03-REGU-0000	Mini Ball Valve 1/4 - M/F	

Compressed Air Connection



#	Catalog #	Description	
	03-CONC-0814	Fast Connection 8 1/4	

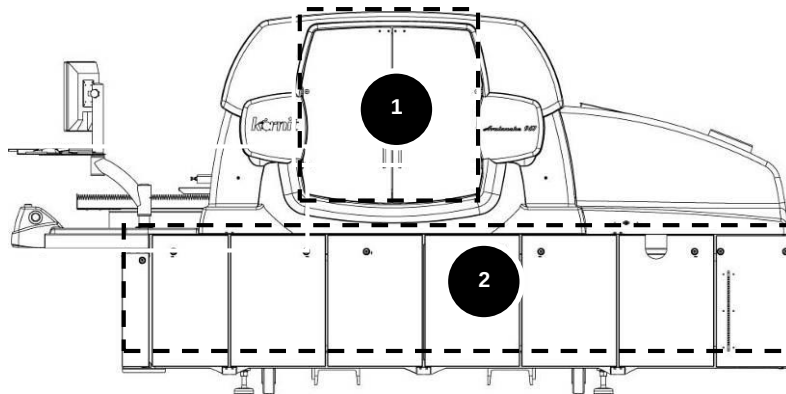
Spray Assembly (33-SPRY-0036)



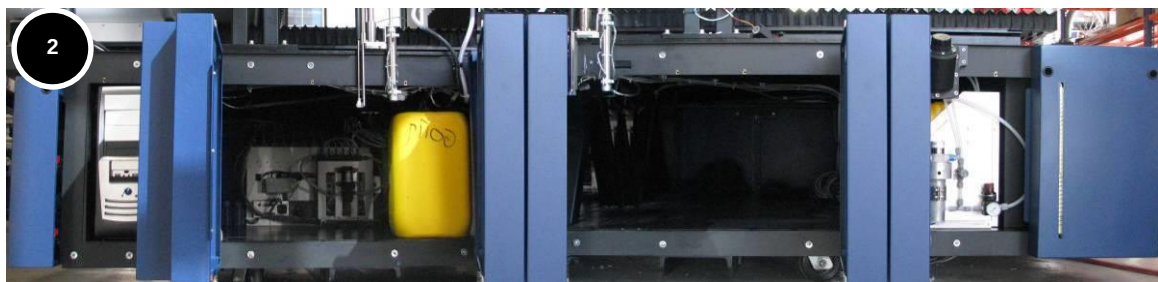
#	Catalog #	Description	
1A	33-FLTR-0030	Spray Filter Assembly	
1B	45-FLTR-0002	Green 100 Mesh SS304 Screen	
1C	03-GASK-0001	EPDM Gasket	
1D	39-BRAK-0061	Elbow Needle Valve Holder	
1F	03-TAPS-0001	6mm Tap Valve – Stainless Steel Needle	
2	09-KEAS-5174	Spray Pump Cable Assembly incl. Molex Connector	
2A	83-LAXN-0001	Clear Lexan 0.25 mm Label 20 mm Dia+467 3M Adh. (not shown)	
3	03-ADAP-0006	Male Adaptor Elbow Union	
4	33-TUBE-0016	Tank Tube	
5	03-PIPE-0013	Polyurethane Clear Tube 12 x 8: 455 & 1216 mm	
6	03-PIPE-0086	Clear PA Super-flexible Tube 8 x 6: 279 & 394 & 637 mm	
7	03-PIPE-1064	Clear PA Super-flexible Tube 6 x 4: 170 & 867 mm	
8	09-KEAS-5011	Wired Sensor, indicates if Spray Tank Empty	
9	33-CAPP-0007	Spray Fluids Cap Assembly	

#	Catalog #	Description	
10	45-CLAM-0013	Stainless Steel Hose Clamp 38 - 50 mm	
11	49-ABSR-0011	Regulator Shock Absorber	
12	33-REGU-0011	Pressure Regulator Assembly (AFTER Upgrade 23-UPGR-0077)	
13	33-SPRG-0012	Pressure Regulator Assembly (BEFORE Upgrade 23-UPGR-0077)	
14	03-CONC-0004	Gland Pipes Connector	
15	33-SPRY-0022	Spray Tank Assembly	
15A	33-CAPP-0007	Spray Fluid Cap Assembly	
15B	33-MONT-0001	Angle Panel Mount	

Right View

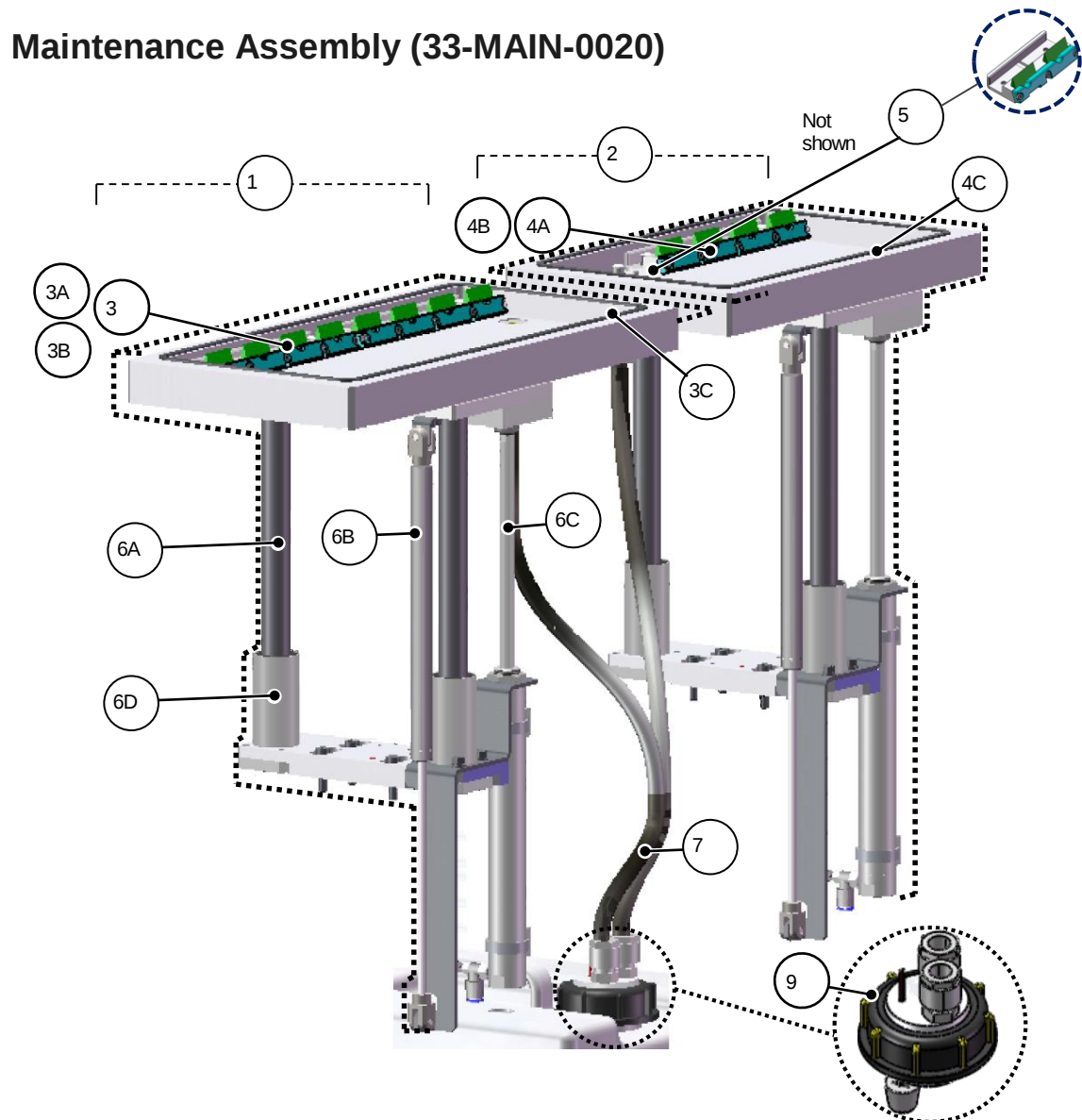


Top Right teh – Internal View



Bottom Right Side – Internal View

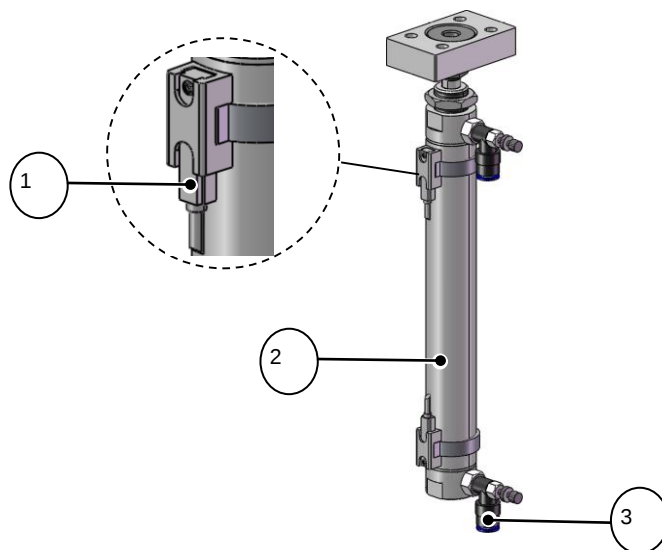
Maintenance Assembly (33-MAIN-0020)



#	Catalog #	Description	
1	33-MAIN-0014	8 Place/Wipers Maintenance Tray Assembly	
2	33-MAIN-0021	6 Place/4 Wipers Maintenance Tray Assembly	
3	33-WIPR-0022	8 Wipers Maintenance Tray Assembly	
3A & 4A	33-WIPR-0003	4 Wipers Holder Assembly V3	
3B & 4B	36-WIPR-0050	Green Wiper 29 x 20.5 x 5	

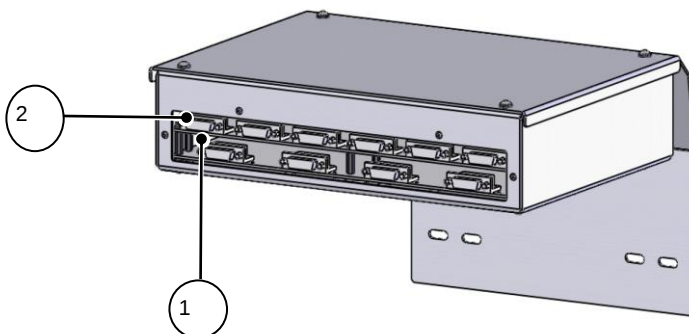
#	Catalog #	Description	
3C	17-SEAL-0008 On Avalanche printers: 951-129+	8 Wiper Maintenance Tray (CMYK) Capping Seal	
	03-SEAL-0002 All previous Avalanche printers (< 951-129)		
4C	17-SEAL-0009 On Avalanche printers: 951- 129+	6 Wiper Maintenance Tray (White) Capping Seal	
	03-SEAL-0001 All previous Avalanche printers (< 951-129)		
5	33-WIPR-0002	Two Wipers Holder Assembly	
6A	36-RODD-0009	Guide Rod	
6B	49-GASP-0007	Gas Spring 75N	
6C	33-PIST-0002	Maintenance Lift Piston (see child parts <i>below</i>)	
6D	45-BUSH-0003	Linear Bushing Flanged 80mm with 2 Seals	
7	03-PIPE-0016	Technoflex: 850 mm Flexible Tube 5/16"	
8	03-CONC-1212	Serto Straight 1/2 - 12 Connection (under tray), not shown	
9	33-CAPP-0006	Waste Tank Swivel Cap Assembly	

Maintenance Lift Piston (33-PIST-0002)



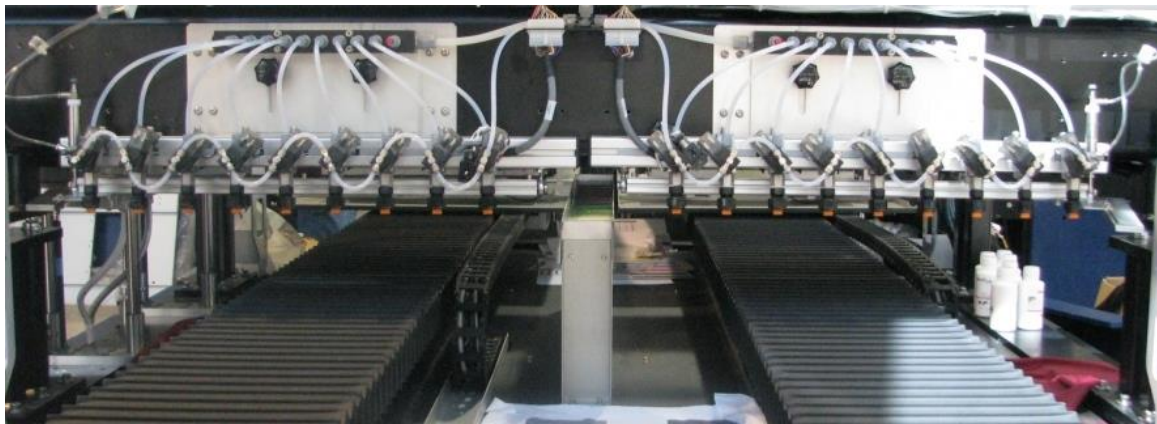
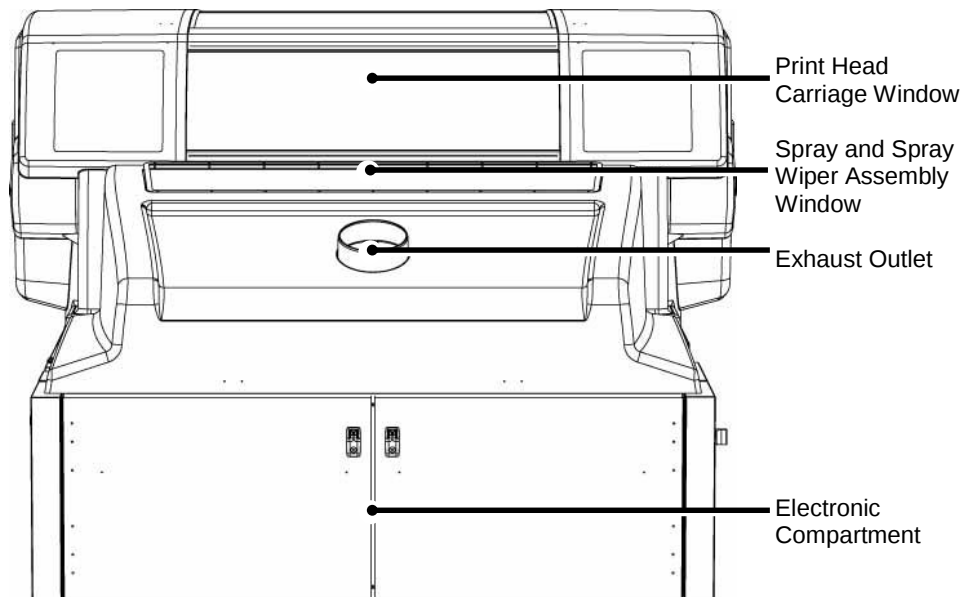
#	Catalog #	Description	
1	09-KEAS-1600	Cable Assembly for 06-SNSR-0013 (Magnet Proximity Switch Series CST Sensor)	
2	03-CYLN-0003	Magnetic Cylinder Series 27	
3	03-FCON-0004	Unidirectional Flow Controller 1/8" - 6	

Y1 and Y2 Electronic boxes (33-EBOX-0010 and 33-EBOX-0012)



#	Catalog #	Description
1	23-PCBK-4020	Lower & Upper High Speed Boards Set - Nova
2	06-EBRD-1030	Ext. Driver Board (Y1 & Y2 Electronics Boxes)

Rear View



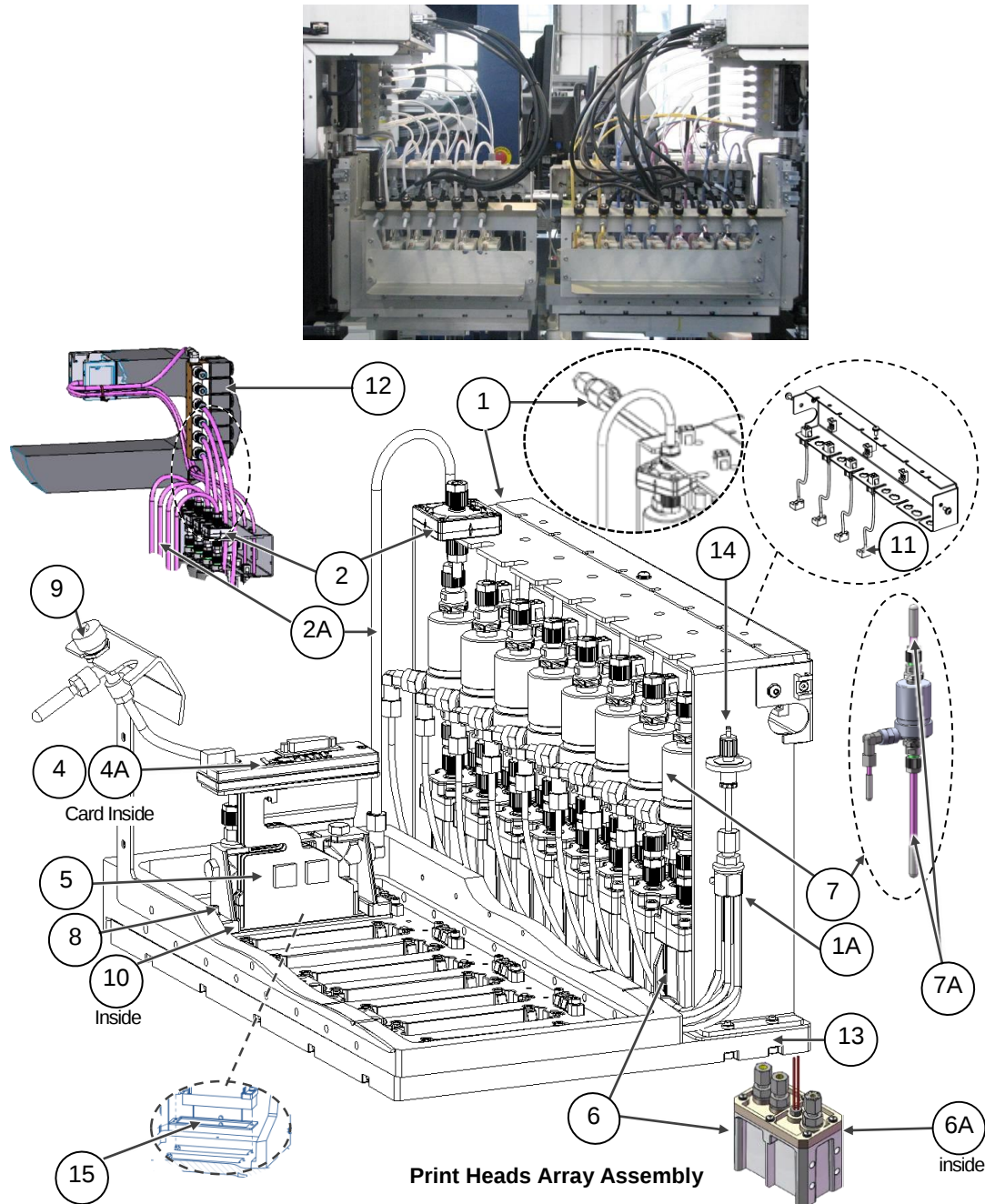
Upper Rear (Internal) View – Spray System



Lower Rear (Internal) View

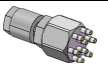
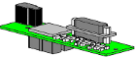
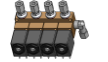
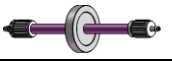
Print Head Carriages (33-PHAD-0020 & 33-PHAS-0023)

Note: Replaceable parts in 33-PHAS-0023 are the same as for 33-PHAD-0020.

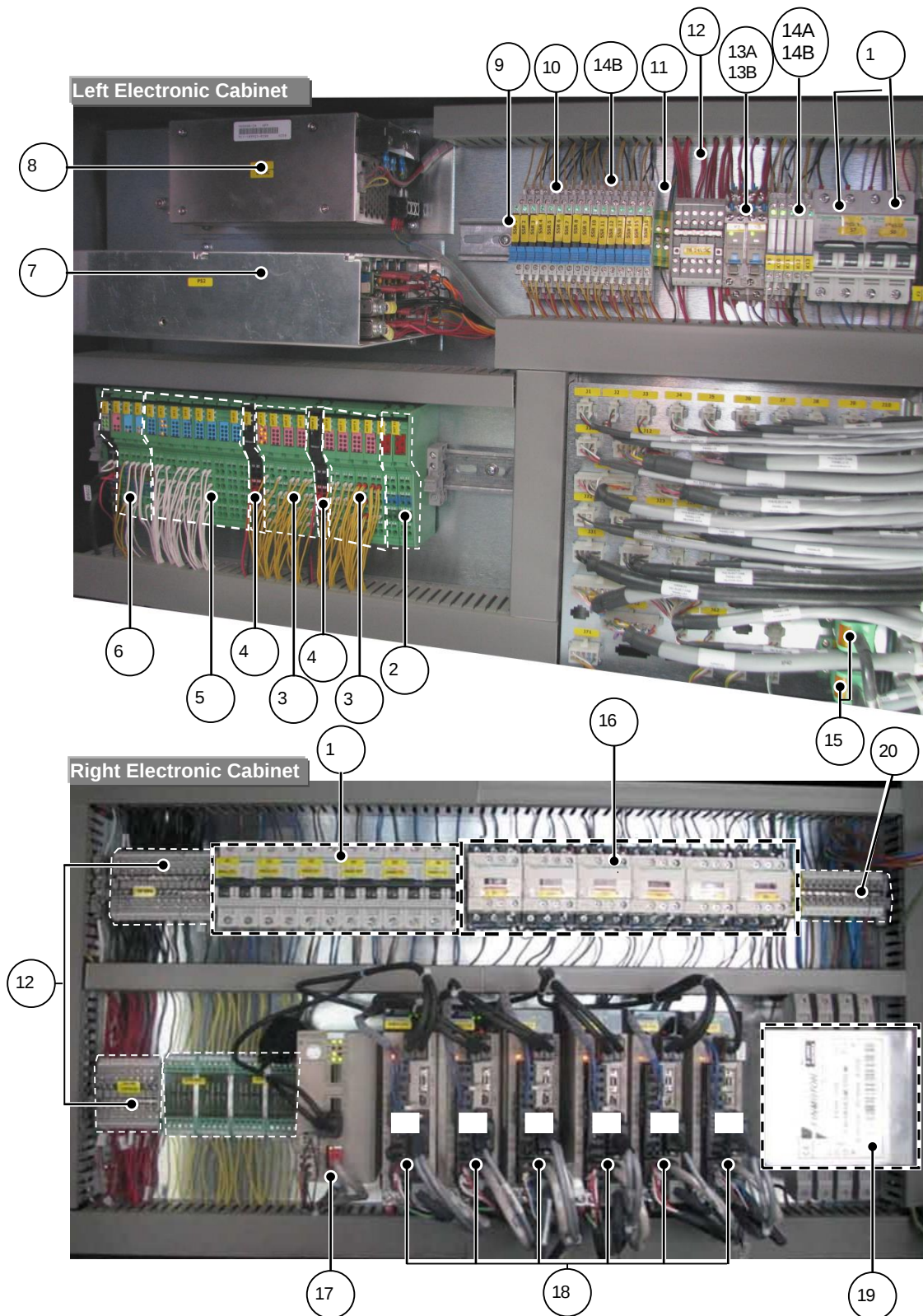


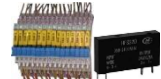
Note:

The 8-Place Print Heads Array Assembly (CMYK) is similar to the 6-Place Print Heads Array Assembly. Additional parts that may be required of the 6/8-Place Assembly and of the assemblies for the Avalanche DC Pro printer are listed in the table below.

#	Catalog #	Description	
1	33-MNFD-0027	Vacuum Manifold	
1A	03-MNFD-0038	Degassing Manifold - 6 outputs (for DC printers)	
2	33-FLTR-2380	Filter 38 & Plugs	
2A	03-PIPE-1064	Natural Rilsan PA11 Rigid Hose 6 x 4	
4	33-DUNG-0003	Dongle Assembly (Including Bracket)	
4A	06-EBRD-2040	Dongle Circuit V2 256	
5	33-HEAD-0931	Print Head (Including Bracket) - Degassing	
6	33-TANK-0019	Secondary Ink Tank for Avalanche Sub-assembly	
6A	03-RING-0002	4mm PVDF Ring (inside)	
7	33-DGAS-0007	Degassing Vacuum Cartridge Assembly	
7A	03-PIPE-1064	Natural Rilsan PA11 Rigid Hose 6 x 4	
7B	03-PIPE-0425	Natural PA11 Superflexible 4 x 2.5	
8	36-SCRW-0003	Captive Screw	
9	03-VALV-0011-S	Drain Valve Sub-assembly	
10	09-KEAS-0180	Heating Element (incl. Sensor)	
11	09-KEAS-5070	Cable Assembly KRN-EAS-70 Flood Sensor	
12	33-VACU-0007	6-Place Vacuum Purge Manifold & Assembly	
12A	33-VACU-0010	8-Place Vacuum Purge Manifold & Assembly	
12B	03-MNFD-0034	4-Place Vacuum Purge Manifold for Avalanche DC Pro	
12C	03-MNFD-0033	2-Place Vacuum Purge Manifold for Avalanche DC Pro	
13	36-PLAT-0168 36-PLAT-0188	Array Plate (6 places) – 33-PHAD-0020 Array Plate (8 places) – 23-PHAS-0023	
14	33-FLTR-0038	Overflow Filter Assembly	
14A	03-PIPE-0042	Clear Polyurethane Hose 4 x 2.5 TPUCO	
15	39-SPAC-0010	Spacer 2 mm	

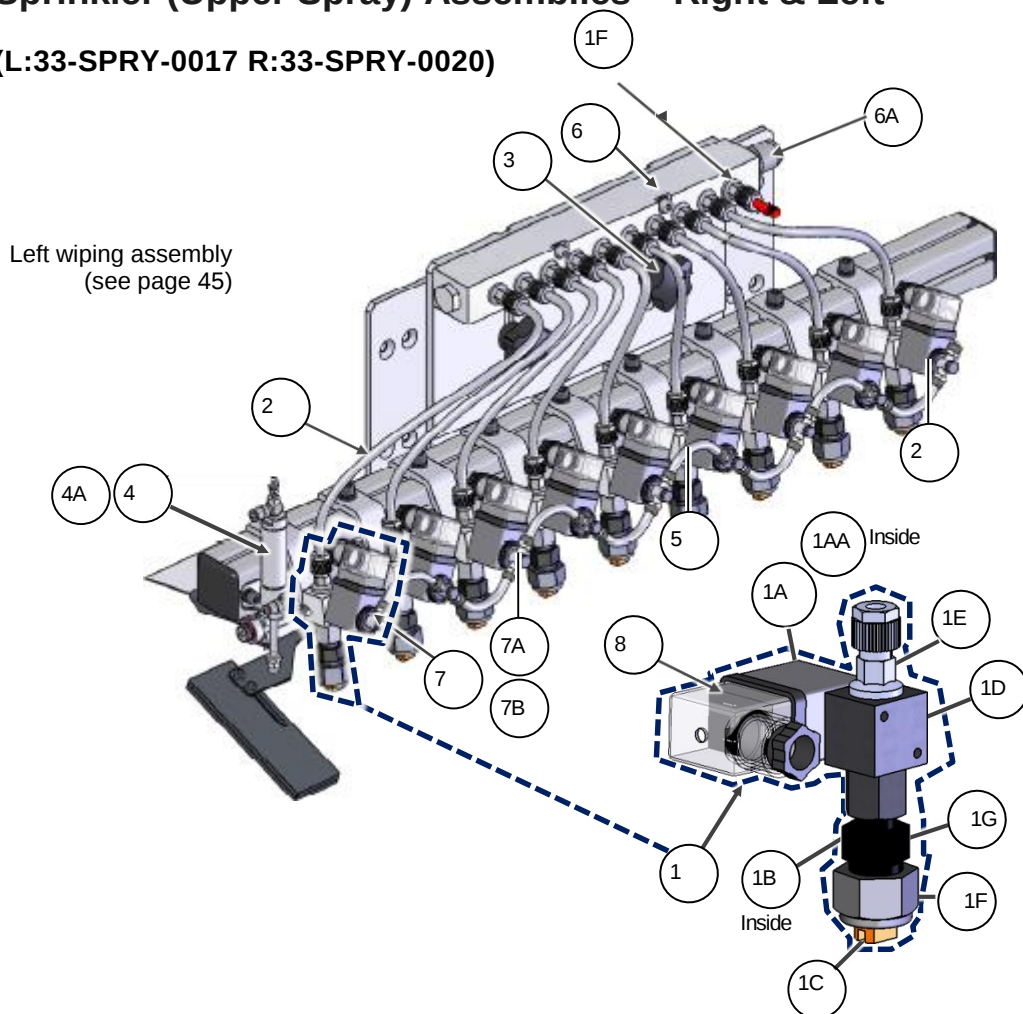
Electrical Cabinet (06-PCAB-0008)



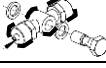
#	Catalog #	Description	
1	06-CBRK-0102	Circuit Breakers 10A 2 pole (single)	
2	06-CONT-0004	EXT. 4 Outputs	
3	06-TERM-0008	Inline digital output terminal block, complete with accessories (connector and labeling field), 32 outputs, 24V DC, 500mA, single-wire connection method	
4	06-CONT-0001	Inline power terminal block - PHOENIX	
5	06-TERM-0009	Inline digital input terminal, complete with accessories (connector and labeling field), 32 inputs, 24V DC, non-wired, single-wire connection method	
6	06-CONT-0010 K	Mechatrolink DI8 DO4 PHOE	
7	23-PWSP-0931	Power supply H10980	
8	06-PWSP-0010	Power Supply for Avalanche Type HWS600	
9	06-BLOK-0001	AC Block End Section	
10	06-RELY-0006	SSR Input 24VDC Load 24VDC Current 4A (single)	
11	09-CABL-0022 06-CONM-0226	MECHATROLINK-II Communication Cable 3M Terminal 4mm PE (single)	
12	06-CONM-0227	Terminal Block UDK4 (single)	
13A 13B	06-RELY-0001 06-RELY-0002	Relay DP 5A 24VDC-RoSH Relay Socket DPDT DIN-RoSH	
14A 14B	06-SCKT-0001 06-RELY-0005	Relay Socket 250VAC 6A (Per Pole) Subminiature Power Relay 6A 24V	
15	06-CONP-0003	Conn. Plug 3-pin Pos.	
16	06-CONT-0019	Contactor 24v 9A-AC3	
17	06-CONT-0026 45-COVR-0001	Controller Base MP2300S 8	
18	06-DRIV-0002 06-DRIV-0001 06-DRIV-0003	X1, X2 Servo Driver SIGMA5 M-II 200V 400W (single) Y1, Y2 Servo Driver SIGMA5 M-II 200V 200W (single) Z1, Z2 Servo Driver SIGMA5 M-II 200V 100W (single)	
19	06-FLTR-0001	RFI Filter 36A+N	
20	06-CONM-0225	AC Block Connection (single)	

Sprinkler (Upper Spray) Assemblies – Right & Left

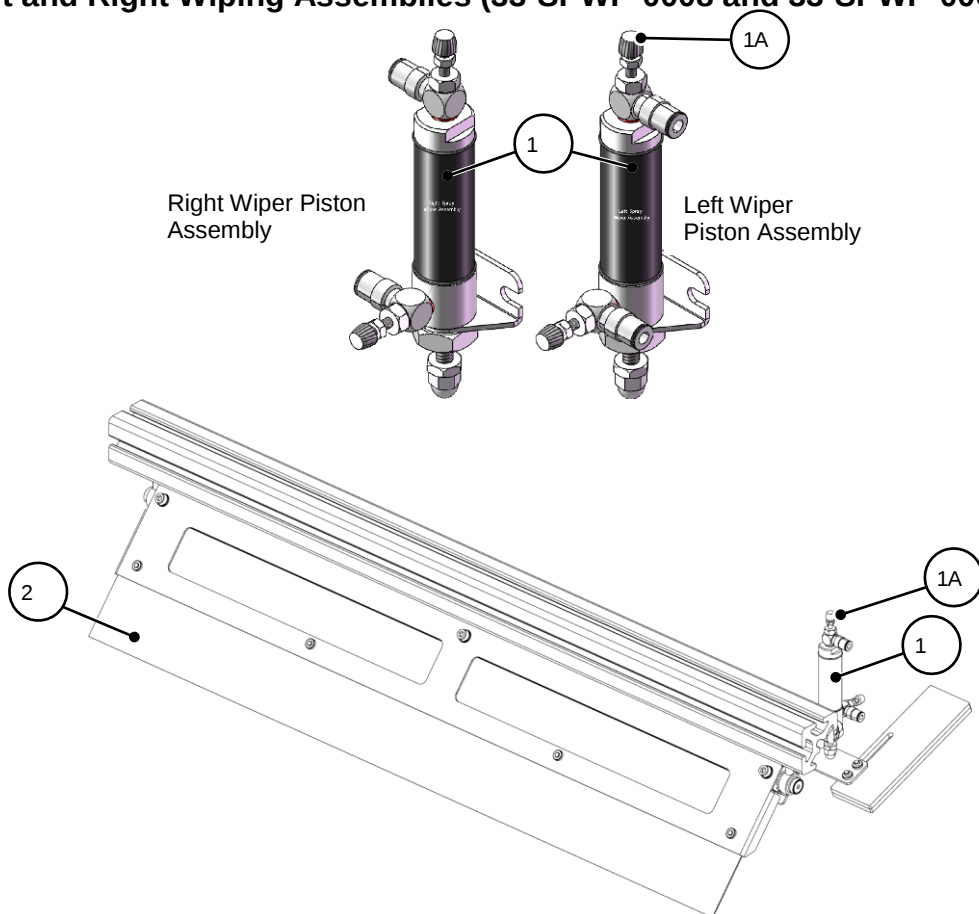
(L:33-SPRY-0017 R:33-SPRY-0020)



#	Catalog #	Description	
1	33-NVAL-0015	Sprinkler	
1A	03-COIL-0001	24V DC 5W Coil	
1AA	03-VALV-1001	Complete Plunger Assembly Spring gr. 155 + Plunger Body (inside 03-COIL-0001)	
1B	33-FLTR-6503	One-way Spray Filter (inside)	
1C	03-NOZL-1001	110° Spray Nozzle for Sprinkler	
2	03-PIPE-0064	Clear PA Super-flexible 6 x 4	
3	49-KNOB-0004	M8 Lobe Knob	
4	33-SPWP-0007 33-SPWP-0008	Right Wiper Assembly (see below) Left Wiper Assembly (see below)	

#	Catalog #	Description	
4A	33-WIPR-0023	Wiper Piston Assembly (see <i>below</i>)	
5	33-NVAL-0004	Sprinkler Assembly	
6	33-MNFD-0023	Sprinkler Manifold	
6A	03-ADAP-0018	Male adaptor Straight Union 3/8"-10	
7	36-BANJ-0001	M5 Banjo Fitting – Single	
7A	03-BANJ-1620	M5 Banjo 6mm – Double	
7B	03-GASK-0005	Nylon Washer	
7C	33-BANJ-0001	Banjo M5 Bolt with Washers (not shown)	
8	06-ECON-0001	Coil Connector 24 V DC with LED	

Left and Right Wiping Assemblies (33-SPWP-0008 and 33-SPWP-0007)



#	Catalog #	Description	
1	33-WIPR-0023	Wiper Piston Assembly (aligned according to side (left/right), as shown above.	
1A	03-VALV-0009	Valves Series MCU MCU 702-M5	
2	33-SPWP-0009	Spray Wiper Assembly	

Chemicals

Catalog #	Description	Unit	Qty/Bottle
50-WBIC-0323	Water Based Ink Cyan 1.5L V.223	Liter	1.5L
50-WBIK-0323	Water-based Ink Black V.223	Liter	1.5L
50-WBIY-0323	Water-based Ink Yellow V.223	Liter	1.5L
50-WBIM-0323	Water-based Ink Magenta V.223	Liter	1.5L
50-WBIW-0301	White Ink V301	Liter	1.5L
50-WBFF-0001	Flushing Fluid	Liter	1.5L
50-WBPP-0001	General Priming Fluid	Liter	1.5L
50-FIXA-2011	Fixation Agent V201B	Liter	5L
50-FIXA-0002	Odorless Fixation Agent	Liter	5L
50-FIXA-2255 NORTH AMERICA ONLY	Odorless Fixation Agent One Gallon Unit	Gallon	1 Gallon
50-FIXA-2257 NORTH AMERICA ONLY	Odorless Fixation Agent 5 Gallon (Ready for use)	Gallon	5 Gallon
50-WIPG-0200	Wiping Fluid for Water-based Inks	Liter	1L
50-DCPR-0301	Discharge Pro Ink (Bottle with red cap)	Liter	1.5L
50-DCFL-0301	Discharge Ink/Fixation (Bottle with red cap)	Liter	1.5L

Accessories

Catalog #	Description	Unit	Qty/Bag
01-WIPR-0909	Lint-free Wipes	1 bag	50
83-SWAB-0002	Swab	1 pkt	100
17-TANK-0001	Transparent Waste tank 20L	1	1
83-PAPR-0017	Paper (A3) for Nozzle Test	1	50
83-SLID-0003	Slides (A3) for Nozzle Test	1	50
83-GRES-0070	Grease Tube 70cc	1	1
03-RING-0106	Plastic Ring for 6mm Tube (inside connector)	1	
03-RING-0003	Plastic Ring for 8mm Tube (inside connector) - Compression Ferrule		
03-NUTT-0007	Knurled Nut - For Serto Hose Connector	1	
31-0059	Ink Hose 6 mm - White Nylon	1	
03-PIPE-0022	Clear Polyurethane Hose 6 x 4 TPUCCO (Not for Ink)	1	
31-0058	Super Flex Tube 8mm	1	
930-55-00-000	Flushing Bottle Kit (Jacob Bottle)	1	
33-TOOL-0001	Pallet Removal Key	1	
33-TANK-0069	Fixa Mixing Tank 20 Liter	1	

Flushing (Jacob) Bottle (930-55-00-000)



#	Catalog #	Description	
1	03-PIPE-0086	Natural PA11 Superflexible 8 x 6	
2	03-PLUG-0001	Plug Model 6 x31.5mm	
3	20-FLUS-0001	Flushing Using the Flushing Bottle – Instructions Disc	
4	2010	Rubber Glove 3 Fingers	

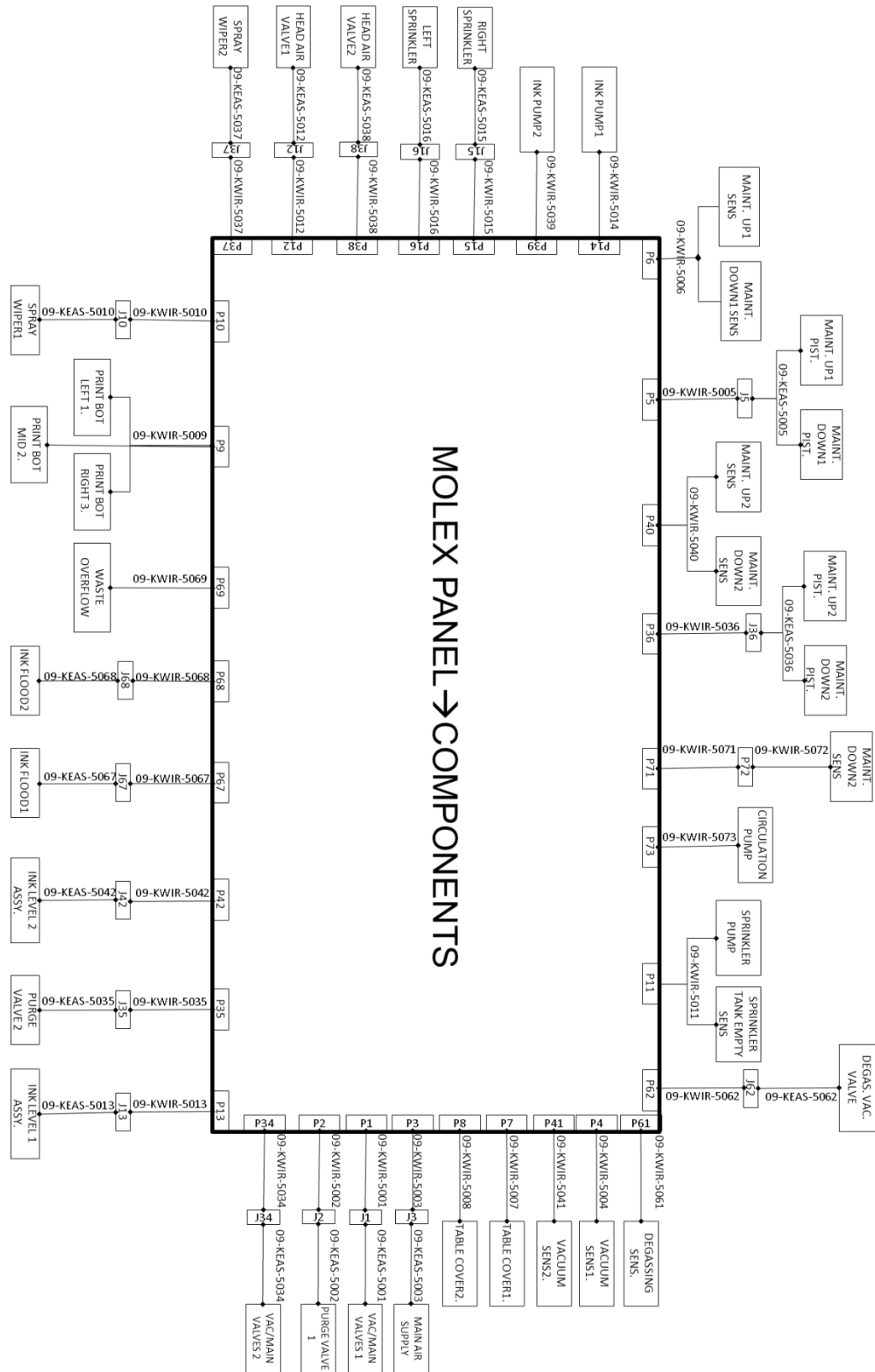
#	Catalog #	Description	
5	2012	Rubber-covered Gripping Arm (double-handle)	
6	2013	Double-handle Clamp for Flushing Kit	
7	31-0059	White 6 mm Tube	
8	33-FLTR-2380	Filter 38mm&Plugs Assembly	
9	83-BOTL-0010	Flushing LAB Purpose Bottle	

Maintenance Kits & Upgrades

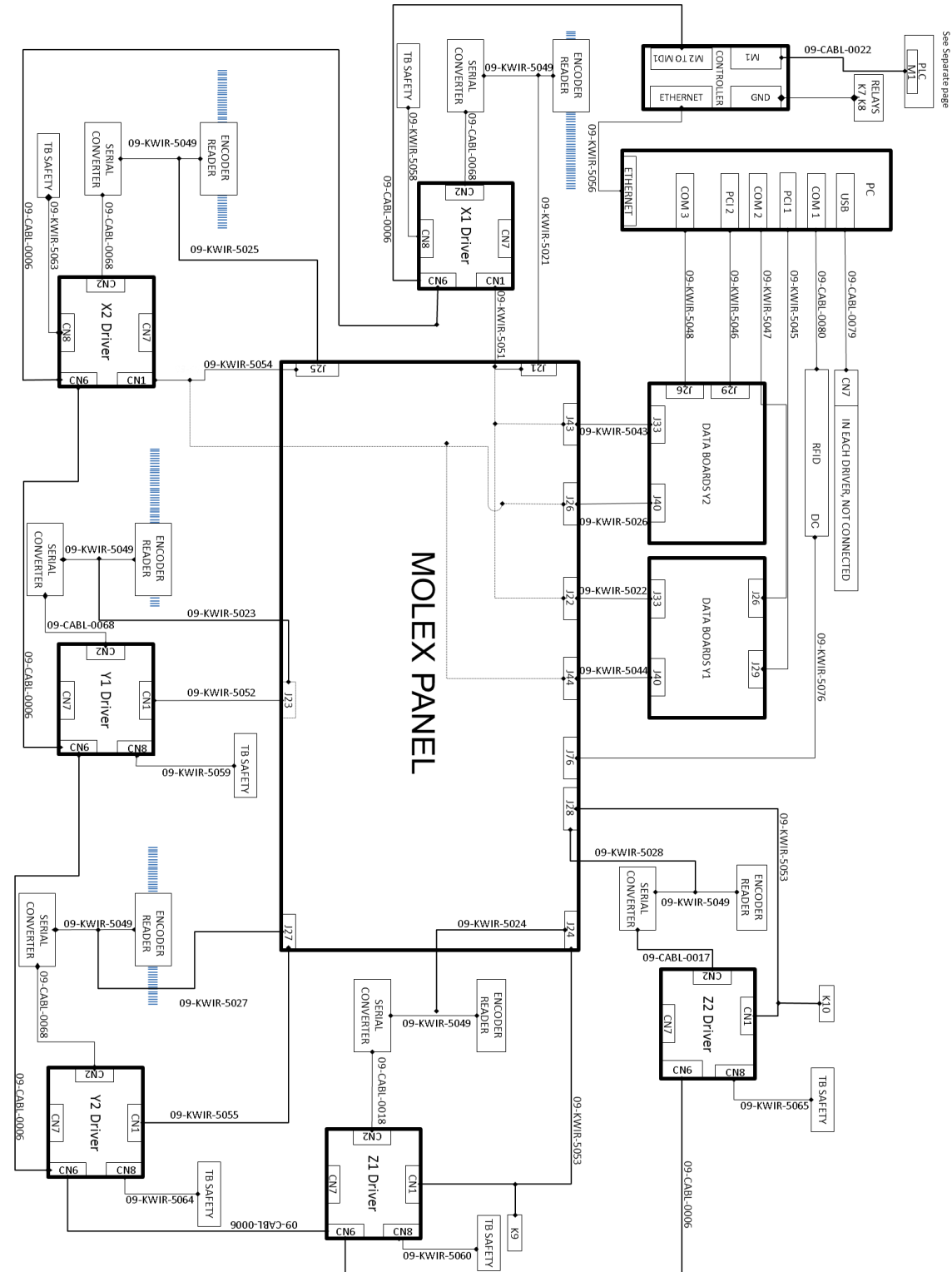
Catalog #	Description
23-PMYE-0015	Yearly Maintenance Kit - Avalanche
23-PMYE-0016	Yearly Maintenance Kit – Avalanche DC Pro
23-UPGR-0951	Upgrading an Avalanche Printer to Avalanche DC Pro Kit
23-UPGR-0032	Upgrading the Spray Tank Assembly Kit
23-UPGR-0033	Isolating the Print Head Carriage Base Kit
23-UPGR-0077	Regulator Upgrade Kit
23-UPGR-0040	Spray Return Line Upgrade
23-UPGR-0078	Upgrade Kit for Avalanche Discharge

Cables

Cable Map – PLC



Cable Map – Data and Motion



Catalog #	Description
06-SNSR-0012	U Shape Photoelectric Sensor L Type NPN
06-SNSR-0015	Flat Proximity Sensor
09-CABL-0009	USB Extension Cable 5m
09-CABL-0038	USB Panel-Mount Type A Cable 1.8M
09-CABL-0050	VGA Extension Cable 1.8m 3+8 Black
09-CABL-0079	Mini USB Cable 1.8m for Camera
09-CABL-0080	Serial COM Cable 5M
09-KEAS-12000	K-EAS-2000 Rev FW Limit Switch Sensors Cable
09-KEAS-1600	K-EAS-600 931 Maintenance Up/Down Sensors Assembly
09-KEAS-2020	K-EAS-20 Ink Door Interlock Cable
09-KEAS-2030	Pallet Sensor Cable Assembly K-EAS-30
09-KEAS-2170	K-EAS-170 E. Stop SW Cable
09-KEAS-5001	Cable Assembly KRN-EAS-1 5001 Vacuum + Main Valve
09-KEAS-5002	Cable Assembly KRN-EAS-2 Purge Valve/1 Cable Assembly
09-KEAS-5003	Cable Assembly KRN-EAS-3 Main Air Supply
09-KEAS-5005	Cable Assembly KRN-EAS-5 Avalanche Maintenance Up/Down Pistons/1
09-KEAS-5009	Cable Assembly KRN-EAS-9 Print Button Left/Right/Mid
09-KEAS-5010	Cable KRN-EAS-10 Spray Wiper/1
09-KEAS-5011	Cable KRN-EAS-11 Wired Sensor Electric Assembly, indicates if Spray Tank Empty
09-KEAS-5012	Cable Assembly KRN-EAS-12 Head Air Valves 1
09-KEAS-5013	Cable Assembly KRN-EAS-13/14-V2 Ink Levels Assembly
09-KEAS-5013	KRN-EAS-13/14-V2 Ink Levels Assembly
09-KEAS-5014	Cable Assembly KRN-EAS-14 Ink Pumps/1 Assembly
09-KEAS-5015	Cable Assembly KRN-EAS-15 Right Sprinklers/1
09-KEAS-5016	Cable Assembly KRN-EAS-16 Left Sprinklers/2
09-KEAS-5031	KRN-EAS-31 Power Supply Harness
09-KEAS-5034	Cable Assembly KRN-EAS-34 Vacuum + Main Valve/2
09-KEAS-5035	Cable Assembly KRN-EAS-35 Purge Valve/2
09-KEAS-5036	Cable Assembly KRN-EAS-36 Maintenance Up/Down Piston/2
09-KEAS-5036	Cable Assembly KRN-EAS-36 Maintenance Up/Down Piston/2
09-KEAS-5037	Cable Assembly KRN-EAS-37 Wiper/2 Cable
09-KEAS-5037	Cable Assembly KRN-EAS-37 Wiper/2 Cable
09-KEAS-5038	Cable Assembly KRN-EAS-38 Head Air Valves 2
09-KEAS-5039	Cable Assembly KRN-EAS-39 Ink Pumps/2
09-KEAS-5042	KRN-EAS-42/39-V2 Ink Levels Assembly
09-KEAS-5062	Cable KRN-EAS-62 Degas/VAC Valve
09-KEAS-5067	Cable Assembly KRN-EAS-67 Ink Floods/1
09-KEAS-5068	Cable Assembly KRN-EAS-68 Ink Floods/2
09-KEAS-5070	Cable Assembly KRN-EAS-70 Flood Sensor
09-KEAS-5072	Main Ink Tanks Level 2
09-KEAS-5173	Circulation Pump Cable Assembly
09-KWIR-1057	KW57 AC Cable In
09-KWIR-2050	KOW50 DC Harness Ext PCB Cable
09-KWIR-5001	KRNW-1 Elec. Cable to Vacuum + Main Valve
09-KWIR-5002	KRNW-2 Elec. Cable to Purge Valve/1 Assembly

Catalog #	Description
09-KWIR-5003	KRNW-3 Elec. Cable to Main Air Supply Assembly
09-KWIR-5004	KRNW-4 Elec. Cable to Vacuum Sens/1 Assembly
09-KWIR-5005	KRNW-5 Elec. Cable to Maintenance Up/Down Piston 1
09-KWIR-5006	KRNW-6 Elec. Cable to Maintenance Up/Down Sensor 1
09-KWIR-5007	KRNW-7 Elec. Cable to Table Cover/1 Assembly
09-KWIR-5008	KRNW-8 Elec. Cable to Table Cover/2 Assembly
09-KWIR-5009	KRNW-9 Elec. Cable to Print Switches
09-KWIR-5010	KRNW-10 Elec. Cable to Spray Wiper-1 AS
09-KWIR-5011	KRNW-11 Elec. Cable to Sprinkler Tank Pump + Sensor
09-KWIR-5012	KRNW-12 Elec. Cable to Head Air Valves1
09-KWIR-5013	KRNW-13 Elec. Cable to Ink Low Levels1
09-KWIR-5014	KRNW-14 Elec. Cable to Ink Pumps/1
09-KWIR-5015	KRNW-15 Elec. Cable to Right Sprinkler1
09-KWIR-5016	KRNW-16 Elec. Cable to Left Sprinkler2
09-KWIR-5017	KRNW-17 Elec. Cable to E. Stop SW Right2
09-KWIR-5018	KRNW-18 Elec. Cable to E. Stop SW Left/1
09-KWIR-5019	KRNW-19 Left/Right Cover Interlocks
09-KWIR-5020	Krnw-20 I Elec. Cable to Ink Door Interlock
09-KWIR-5021	KRNW-21 Elec. Cable to X-MOT/1 Limit SW
09-KWIR-5022	KRNW-22 Elec. Cable Encoder to PCB/1 J33
09-KWIR-5023	KRNW-23 Elec. Cable to Y-MOT/1 Limit SW
09-KWIR-5024	KRNW24 C Elec. Cable to Z/1-MOT Limit SW
09-KWIR-5025	KRNW-25 Elec. Cable to X-MOT/2 Limit SW
09-KWIR-5026	KRNW26 Elec. Cable Encoder to PCB/1 J40
09-KWIR-5027	KRNW-27 Elec. Cable to Y-MOT/2 Limit SW
09-KWIR-5028	KRNW28 C Elec. Cable to Z/2-Mot Limit SW
09-KWIR-5029	KRNW-29 Elec. Cable to PC
09-KWIR-5030	KRNW-30 Elec. Cabinet to Monitor
09-KWIR-5031	KRNW-31 Power to PCB/1 J7
09-KWIR-5032	KRNW-32 Power to PCB/2 J7
09-KWIR-5034	KRNW34 I Elec. Cable to Vacuum + Main Valve/2
09-KWIR-5035	KRNW-35 Elec. Cable to Purge Valve/2 AS
09-KWIR-5036	KRNW-36 Elec. Cable to Maintenance Up/Down Pistn/2
09-KWIR-5037	KRNW-37 Elec. Cable to Spray Wiper/2
09-KWIR-5038	KRNW38 Elec. Cable to Head Air Valve/2
09-KWIR-5039	KRNW-39 Elec. Cable to Ink Pumps/2
09-KWIR-5040	KRWN-40 I Elec. Cable to Maintenance Up/Down Sensor2
09-KWIR-5041	KRNW-41 Elec. Cable to Vacuum Sensor/2 Assembly
09-KWIR-5042	KRNW-42 Elec. Cable to Ink Low Levels/2
09-KWIR-5043	KRNW-43 Elec. Cable Encoder to PCB/2 J33
09-KWIR-5044	KRNW-44 Elec. Cable Encoder to PCB/2 J40
09-KWIR-5045	KRNW-45 Com Cable to PCB/1
09-KWIR-5046	KRNW-46 COM Cable to PCB/2
09-KWIR-5047	KRNW-47 PCB-1/J26 to PC COM/2
09-KWIR-5048	KRNW-48 Avalanche PCB-2/J26 to PC COM 3
09-KWIR-5049	KRNW-49 Motor X/Y Limit Switch Splitter

Catalog #	Description
09-KWIR-5555	Print Head Cables - to Electronic Card
09-KWIR-5051	KRNW-51 MD1/CN1 X/1 Driver
09-KWIR-5052	KRNW-52 MD2/CN1 Y/1 Driver
09-KWIR-5053	KRNW-53 MD3/CN1 Z/1 Driver
09-KWIR-5054	KRNW-54 MD4/CN1 X/2 Driver
09-KWIR-5055	KRNW-55 MD5/CN1 Y/2 Driver
09-KWIR-5056	KRNW-56 MD6/CN1 Z/2 Driver
09-KWIR-5058	Cable Assembly KRNW-58 MD1/CN8 Interlk
09-KWIR-5059	Cable Assembly KRNW-59 MD2/CN8 Interlock
09-KWIR-5060	KRNW-60 MD3/CN8 Interlock
09-KWIR-5061	KRNW-61 Elec. Cable to Degassing Sensor Assembly
09-KWIR-5062	KRNW-62 Elec. Cable to Degassing Valve Assembly
09-KWIR-5063	KRNW-63 MD4/CN8 Interlock
09-KWIR-5064	KRNW-64 MD5/CN8 Interlock
09-KWIR-5065	KRNW-65 MD6/CN8 Interlock
09-KWIR-5066	KRNW-66 Ethernet Link
09-KWIR-5067	KRNW-67 Elec. Cable to Ink Floods\1
09-KWIR-5068	KRNW-68 Elec. Cable to Ink Floods\2
09-KWIR-5069	KRNW-69 Waste Overflow
09-KWIR-5071	KRNW-71 Elec. Cable to Main Ink Tanks Level
09-KWIR-5072	Cable Assembly KRNW-72
09-KWIR-5073	KRNW-73 Elec. Cable to Circulation Pump
09-KWIR-5074	KRNW-74 GND Cable to PCB-1
09-KWIR-5075	KRNW-75 GND Cable to PCB-2
09-KWIR-5076	KRNW-76 DC to RFID
09-KWIR-5077	KRNW-69A Waste Overflow 1+2
06-CABL-0098	Termi. for M2
09-CABL-0006	MECHATROLINK-II Communication Cable 0.5M
09-CABL-0013	Encoder Cable 10M with Connectors Both Sides
09-CABL-0014	G1 SIGMA-5 Incr. Enc. Cable JV/AV 5M
09-CABL-0015	Power Cable 10M between Servo Amp. to Mot. Term.
09-CABL-0016	G1 SIGMA-5 Incr. Enc. Cable JV/AV 10M
09-CABL-0017	SIGMA V Servo Motor with Brake Power Cable 5M
09-CABL-0018	SIGMA V Servo Motor with Brake Power Cable 10M
09-CABL-0022	MECHATROLINK-II Communication Cable 3M
09-CABL-0040	Power Cable for Linear Motor JZSP-CLN11-05(A)
09-CABL-0068	Encoder Cable L =5m (X,W,Y Axis) YL-0068

Appendix: Preparing Parts for Shipping Procedure

1. Purpose

This Technical Note explains how to prepare used print heads and electronic boards for shipment.

The procedure is intended for Kornit distributors and customers.

2. General

Kornit provides the the following:

- **Empty boxes** for returning print heads and electronic boards.
- **Colored stickers:** If the parts being replaced need to be returned to Kornit, the replacement parts sent by Kornit are marked with a **special colored sticker**.

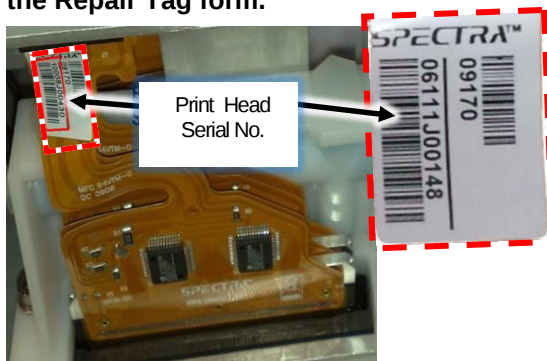
Use the designated empty boxes to pack defective print heads and electronic boards. In other cases, the defective parts should be packed using the packaging of the new parts that were sent.

When returning print heads or electronic boards, refer to the sections below for more information on how to prepare them for shipment.

The defective parts must be returned to Kornit within 15 days of receipt of the replacement parts. If not, an invoice with the full price will be issued.

3. Preparing Print Heads for Shipping

- 1 Perform a nozzle test for each print head that is to be returned.
- 2 Enclose the nozzle test for each print head being returned in the package.
- 3 Each print head has a sticker with its serial number. **Make sure you enter the serial no. in the Repair Tag form.**



- 4 Flush the print heads. For full description of the flushing procedure, refer to the relevant document:
 - 62-TECH-0066 PH Flushing & Introducing Ink in 951
- 5 Introduce priming fluid into the print heads. (For full description of this procedure, refer to the relevant document, as described in Step 4).
- 6 Disassemble the print heads from the head array assembly.
Ensure that you do not send the heater, spacer and electronic dongle.
- 7 Seal the ink entrance hose and the manual valve hose using silicon caps.
- 8 Clean the print head orifice plates with preservation fluid.

- 9 Cover each print head with a lint-free wipe (01-WIPR-0909) and hold the wipe in place using a rubber band.
- 10 Insert each print head into an anti-static bag; wrap the bag in bubble wrap.



Wrapped Print Head in Plastic Bag

- 11 Insert each wrapped print head into a plastic box and indicate (write) the color on the box lid.



Boxed Print Head

- 12 Insert the plastic box into the cardboard box provided by Kornit.



- 13 Fill in the Repair Tag form.

Send the packed print heads and the Repair Tag form to the regional Kornit office, from which the new replacement parts (and the Repair Tag form) were sent. Send the Repair Tag by email to your local Kornit office.

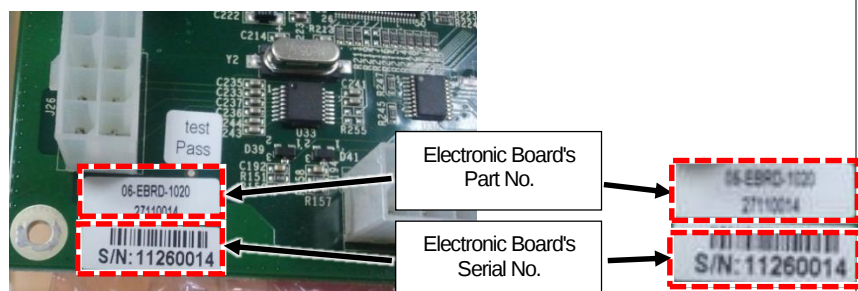
4. Returning Electronic Boards for Shipping

- 1 The following are the electronic boards that have stickers with serial numbers:

Electronic Boards
Part Numbers:

06-EBRD-1030

06-EBRD-4020



When returning one of these boards, make sure that you enter the serial no. in the Repair Tag form.

- 2 Insert each defective electronic board into an anti-static bag; use the bag in which the new board was received.
- 3 The carton box in which the new board was received includes two sponges. Insert the defective board into the box in between the two sponges, close the box and lock it using scotch tape.
- 4 Fill in the Repair Tag form.

Send the packed electronic boards and the Repair Tag form to the regional Kornit office, from which the replacement parts (and the Repair Tag form) were sent.

5. Repair Tag Form

When replacement parts are shipped to a distributor/customer, a **Repair Tag form** is attached. This form must be filled in by the customer/distributor and sent back to Kornit with the defective parts **within 15 days of receipt of the new parts**. It must also be sent by email to your local Kornit office.

The **Repair Tag form** includes **only** the parts that should be returned and it contains the regional Kornit office address for the shipment.