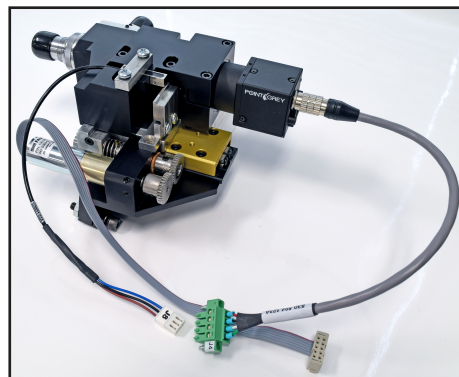




PRISM

PARTS CATALOG

For all Prism models



PRISM

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Prism & Prism Prime Engravers
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Introduction

About the Prism Engraver

The Prism and Prism Prime engravers from OHIO Gravure Technologies are designed to reduce the amount of equipment down-time. Even the best designs do have occasional issues that may require replacement of parts. Use this manual to locate and identify parts when a failure occurs and a replacement is required. Use this information to contact the Service department at OHIO for acquiring the replacement piece.

Purpose Of Manual

This manual was written for Service personnel to accomplish the following requirements:

- ❖ Aid in the visual identification of parts on the Prism engraver.
- ❖ Provide an easy to use method of finding a part number.
- ❖ Simplify communications and reduce errors when it is necessary to order a replacement part.

About this manual

This manual is divided into three sections: Introduction/Safety, Parts List, and Parts Photographs. The Parts List provides a table with information on the parts number, description, general information, and a small picture of the part. The Parts Photographs has large pictures of each part in the Parts List.

Safety

OHIO GT equipment is built with the latest technology and is totally safe to operate when used in accordance with provided operation manuals. Improper use of the equipment or inexperienced personnel can lead to dangerous situations. Operating procedures affecting the safety of the equipment is forbidden.

The operator is responsible for

- Ensuring that no unauthorized personnel are working on the machine.
- Reporting any signs of change affecting safety to his supervisor or Ohio GT.
- Operating the machine in good condition only.

Modifications and changes affecting equipment safety are strictly forbidden. Every person operating or maintaining this unit must read and understand the complete operation manual. The correct usage includes following the manufacturer's recommendations for installation, operation and maintenance. Only authorized and trained personnel are allowed to service and install the machine. These people have been instructed about the possible dangers. The operator may perform preventive maintenance routines, provided the instructions are strictly followed.

All service and maintenance work must be performed while the machine is shut off. Safety covers, doors and flaps that are mounted for safety reasons are only to be removed or opened after the machine is shut off.

OHIO GT strongly recommends the use of original parts for repairing or replacing worn parts, and lubrication. OHIO GT regrets that we cannot accept responsibility for machine damage or problems encountered due to outside material.

Replacement Parts

CAUTION: Use of non-OHIO parts is strongly discouraged. OHIO warranty coverage requires the customer use of genuine OHIO parts. Failure to do so may limit warranty claims and introduce unexpected engraving results.

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Parts List by Machine Area

Consumables		
Ohio GT Part Number and Description	Comments	
D1475-0027 – Vacuum Bag	<i>Change every week!</i> Included in the yearly consumables kit.	
D1645-0024 – Grease	Grease for the Prism	
D803900042 – Engrave Head Air Filters	<i>Replace every 2 weeks!</i> Picture shows individual pieces. Part number is for a pack of 24 pieces. Included in yearly consumables kit.	
D807400034 – Vacuum Hose	Replace twice yearly. Included in yearly consumables kit. 110 mm in length.	
D807400009 – Expandable Vacuum Hose	Replace yearly. Included in yearly consumables kit.	
D817730024 – Extracting Bolt	Used to remove cones. Not a true consumable, shown here for convenience.	

Electrical Enclosure		
Ohio GT Part Number and Description	Comments	
094151 – Power Supply, 24 VDC	24 VDC Switching Supply Located in the top left of the electrical panel.	
D093110010 – Fedora Operating System CD	Linux Operating Software OS version must be identified.	
D095592010 – Interface Board for Step/Direct Drive	Used with Carriage Drive Controller and Carriage Servo Motor	
D096592002 – Vital Proof Clock Buffer board	Mounted on the electrical panel	
153322_C – Power Supply, 12 VDC	12 VDC Switching Supply Located in the bottom right of the electrical panel.	

Electrical Enclosure		
Ohio GT Part Number and Description	Comments	
<i>D100592025 – Master Head Amp, Complimentary Lateral</i>	One used per machine	
<i>D100592026 – Slave Head Amp, Complimentary Lateral</i>	Two used per machine	
<i>D100592037 – Motor Controller, Carriage Motor, Servo, Programmed</i>	Carriage Drive Motor Controller Non-programmed is D2385-0031	
<i>D101592010 – Embedded Computer and Software</i>	Controls both Embedded and RTI functions. Unit has an SSD. For Fedora 20 and later.	
<i>D2090-0441 – Cable, USB 3.0, A/M to B/M, 10 feet</i>	USB cable running to touchscreen display	

Electrical Enclosure		
Ohio GT Part Number and Description	Comments	
D2090-0448 – Adapter, DVI to VGA	Used with Vital Proof equipped machines. Used on the Vital Proof PC.	
D2090-0453 – Cable, VGA, Male to Male, 6 feet	Used with Vital Proof equipped machines. Connects Embedded PC to KVM Switch.	
D2090-0454 – Cable, USB, 2.0, A to B, 6 feet	Used with Vital Proof equipped machines. Connects Embedded PC to KVM Switch.	
D2090-0466 – Cable, Ethernet, CAT5, Black, 6 feet	Used with Vital Proof equipped machines. Connects to J 155.	
D2090-0467 – Cable, Ethernet, CAT5, Green, 5 feet	Used with Vital Proof equipped machines. Connects to J 154.	







Electrical Enclosure		
Ohio GT Part Number and Description	Comments	
<i>D2090-0470 – Cable, USB 3.0, A/M to B/M, 1 meter</i>	USB cable running to touchscreen display	
<i>D2090-0471 – Cable, VHDCI, 6 feet</i>	Used with Vital Proof equipped machines. Connects Vital Proof computer with Vital Proof Clock Buffer pcb.	
<i>D2090-0479 – Cable, Ethernet</i>	Connects Embedded PC to Vista camera. Required for Spectrums using Ethernet camera	
<i>D2090-0482 – Cable, Ethernet, CAT5, Blue, 7 feet</i>	Used with Vital Proof equipped machines. Connects Ethernet entry of machine to network switch.	
<i>D2090-0491 – Cable, VGA, Male to Male, 3 feet</i>	Used with Vital Proof equipped machines. Connects Viital Proof PC to KVM switch.	

Electrical Enclosure		
Ohio GT Part Number and Description	Comments	
D2090-0492 – Cable, Ethernet, CAT5, Black, 4 feet	Used with Vital Proof equipped machines. Connects KVM Remote to KVM switch.	
D2090-0493 – Cable, Ethernet, CAT5, Red, 7 feet	Used with Vital Proof equipped machines. Connects Vital Proof PC (J153) to Network Switch.	
D2090-0494 – Cable, Ethernet, CAT5, Green, 7 feet	Used with Vital Proof equipped machines. Connects to J 154.	
D2143-0479 – Ethernet Card, PCI	Installed in embedded PC. Use with Ethernet Vista camera	No picture available
D2143-0968 – Repeater, USB Extension, USB to CAT5		
D2143-0973 – Cable, Firewire, 0.5 Meter	Connects repeater to Embedded PC. Required for Prisms using a FireWire Vista camera. Early machines only.	


Electrical Enclosure		
Ohio GT Part Number and Description	Comments	
D2143-0974 – Cable, Firewire, 10 m		
D2143-0981 – Computer, Vital Proof		
D2143-0983 – Network Switch, Ethernet, 5-port, Gigabit		
D2143-1001 – Switch, KVM, Remote	Used with Vital Proof equipped machines	
D2215-0003 – Fan, 240 VAC	Enclosure fans. Found on end cover of drive enclosure	

Electrical Enclosure		
Ohio GT Part Number and Description	Comments	
D2215-0041 – Fan, 24 VDC	Card cage fans	
D2385-0049 – Motor Controller, AC Drive, 0.50 HP	Tailstock Drive Motor Controller	
D2500-0119 – UPS, 220-240 VAC, 50-60 Hz	Uninterruptible Power Supply	
D2580-0050 – Contactor	Power ON Relay, K5	
D2580-0064 – Opto-Isolator Module, 4-Channel, Output		



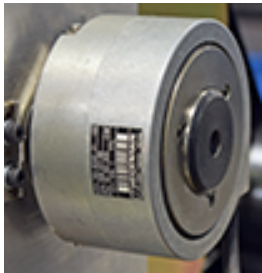



Electrical Enclosure		
Ohio GT Part Number and Description	Comments	
D2580-0067 – Opto-Isolator Module, 4 Channel, Input		
D2725-0010 – Line Filter, Ultra High-Attenuation, AC Power		
D2735-0145 – Switch, Pushbutton Locking, Mushroom Head	Emergency Stop pushbutton	
D2735-0188 – Switch, Pushbutton, Momentary Action, Green Face	Power ON Switch	
D520274-12 – Vital Proof Kaman Vista PCB	Used with Vital Proof equipped machines.	






Electrical Enclosure		
Ohio GT Part Number and Description	Comments	
D520482-02 – High Voltage Power Supply		
D520483-02 – Low Voltage Power Supply		
D520487-01 – Automated Engrave Control board		
D520487-04 – Automated Engrave Control board		
D520274-11 – Tip Cal Interface board	For Prism PRIME only	
D807550012 – Motor Controller, Cylinder Motor, Servo, Programmed	Cylinder Drive Motor Controller Non-programmed 2385-0047	




Electrical Enclosure





Ohio GT Part Number and Description	Comments	
<p>D817594080 – Firewire Repeater</p>	<p>Required for Prisms using a FireWire Vista camera Early machines only</p>	


Bed and Vacuum		
Ohio GT Part Number and Description	Comments	
10500012 – Gearbox	Attached to carriage drive Servo motor, D2365-0117.	
150625_E – Flex Coupling	Connects carriage drive gearbox to the ballscrew	
D2365-0034 – Blower, DC Motor	Vacuum motor	
D2365-0117 – Motor, Servo	Carriage Drive Servo Motor. Coupled to gearbox D10500012	
D2365-0148 – Motor, AC	Tailstock Drive Motor Includes coupling	

Cylinder Drive and Chucks		
Ohio GT Part Number and Description	Comments	
D1120-0057 – Flat Belt, 1540 mm (60.63 inch)	Main Drive Belt	
D1820-0001 – Spindle, Operating, Hex, Female	For independent jaws on 3-Jaw Chucks.	
200815 – Rotary Encoder, 6k/Rev, Bore-thru encoder for mounting on shaft		
D2365-0127 – Motor, Servo	Cylinder Drive Motor	
D520387-07 – Encoder Board		
D817730024 – Extracting Bolt	Used to remove cones from headstock.	

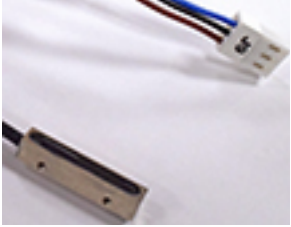





Carriage, including Front and Rear Operator Pods		
Ohio GT Part Number and Description	Comments	
D2143-0964 – Pointing Device, Touchpad		
D2190-0039 – Display, Touchscreen, for XL	For Prism XL machines. Mounts on the carriage and not on pole.	No Picture Available
D2735-0193 – Switch, Rocker Action, DPDT	Used for Carriage Direction on front and rear control panels.	
D2735-0196 – Switch, Printed, Momentary Action, Pushbutton	Stocks Open pushbutton	
D2735-0197 – Switch, Printed, Momentary Action, Pushbutton	Cylinder Clean pushbutton	
D2735-0198 – Switch, Printed, Momentary Action, Pushbutton	Stocks Close pushbutton	


Carriage, including Front and Rear Operator Pods		
Ohio GT Part Number and Description	Comments	
<i>D2735-0199 – Switch, Printed, Momentary Action, Pushbutton</i>	Stocks Unlock pushbutton	
<i>D520497-03– Carriage Interface PCB</i>		
<i>D520536-01 – Strobe Limiter PCB</i>	For Prism PRIME only	
<i>D807400009 – Expandable Vacuum Hose</i>	Runs across the carriage. 125 mm length compressed.	
<i>D807592005 – Switch, Proximity for Prism</i>	Left Limit prox	
<i>D808592005 – Switch, Proximity for Prism XL</i>		


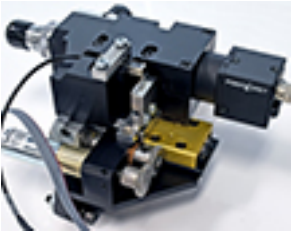

Carriage, including Front and Rear Operator Pods		
Ohio GT Part Number and Description	Comments	
<i>D807592006 – Switch, Proximity for Prism</i>	Right Limit prox	
<i>D808592006 – Switch, Proximity for Prism SL</i>		
<i>D807592008 – Motor, DC for Prism</i>	Head Slide Motor	
<i>D808592008 – Motor, DC for Prism XL</i>		
<i>D807592046 – Switch, Proximity for Prism</i>	Head Down prox	
<i>D808592046 – Switch, Proximity for Prism XL</i>		
<i>D807594048 – Head Interface Cable for Prism</i>	For Prism PRIME machines only	
<i>D808594048 – Head Interface Cable for Prism XL</i>		
<i>D817580022 –Strobe Assembly</i>	Strobe unit for Prism Prime engravers	

Carriage, including Front and Rear Operator Pods		
Ohio GT Part Number and Description	Comments	
D807594148-P	For use with D520523-06 Head Interface Board only. For Prism PRIME only	

Engrave Head		
Ohio GT Part Number and Description	Comments	
D103100091 – Switch, Optical	For Prism PRIME only	
D103870XXX – Vision 3 Engrave Head Multi-Tune	Last 3 digits determine engrave head type and tunes	No picture available
D1850-0147 – Hex Key Wrench, 0.050 inch		
D2465-0022 – Vista Camera, Firewire	Firewire connection For early machines only	
D2465-0023 – Vista Camera, Ethernet	Ethernet connection. Shown with cap over lens.	
D370201-01 – Bit, Torx Wrench, T7	Used for stylus clamping screws. Use with Torque Driver D370215-02.	
D370215-02 – Torque Driver, Preset, 20 cNm	Used for stylus clamping screws. Use with Torx bit.	
D520091-04 – Switch, Proximity	Focus Prox, J8 For Prism PRIME only	

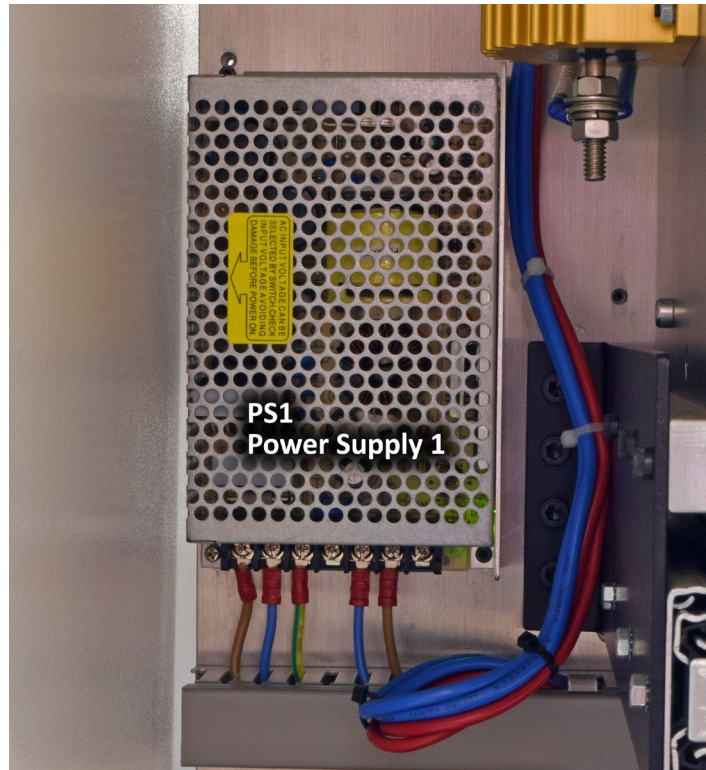
Engrave Head		
Ohio GT Part Number and Description	Comments	
D520092-01 – Switch, Proximity	Shoe Out Prox, J9 For Prism PRIME only	
D520093-01 – Switch, Proximity	Burr Cutter Prox, J6 For Prism PRIME only	
D520252-01 – Switch, Proximity	Shoe In Prox, J7 For Prism PRIME only	
D520277-14 – Head Feedback Position Sensor Assembly	Includes probe and electronics box	
D520523-04 – Head Interface Board	Mounted on back of engrave head For Firewire camera	
D520523-05 – Head Interface Board	Mounted on back of engrave head. For Ethernet camera For Prism PRIME only	

Engrave Head		
Ohio GT Part Number and Description	Comments	
D520523-06 – Head Interface Board	<p>Mounted on back of engrave head</p> <p>For Ethernet camera</p> <p>Latest generation of Head Interface Board uses a new connector.</p> <p>If used as a replacement for 52052305, a new cable D807594148-P is required.</p>	
D560458-01 – Power Cable, Camera	For FireWire camera only	
D803101011 – Shoe Motor Assembly	For Prism PRIME only	
D803101012 – Burr Cutter Motor Assembly	For Prism PRIME only	
D803101013 – Focus Motor Assembly	<p>Focus Motor for Vista System</p> <p>For Prism PRIME only</p>	

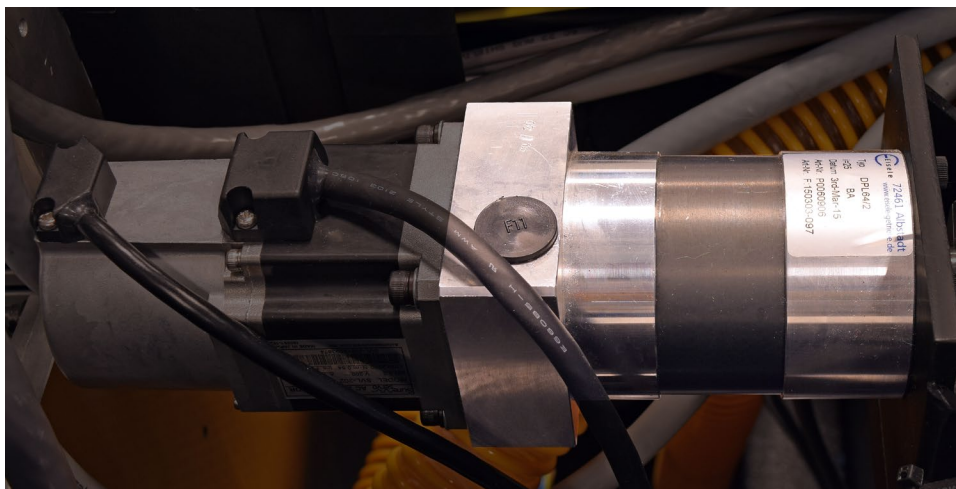
Engrave Head		
Ohio GT Part Number and Description	Comments	
<i>D807400034 – Vacuum Hose</i>	110 mm in length	
<i>D803751026 – Optical Assembly, Motorized</i>	Includes Ethernet camera D2465-0023	
<i>D807560002 – Optical Assembly, Manual</i>	Includes Ethernet camera D2465-0023	No Picture available
<i>D807594123 – Power Cable, Camera for Prism</i>	For Ethernet Vista camera.	
<i>D808594123 – Power Cable, Camera for Prism PRIME</i>	For Prism PRIME only	

Numerical Parts Listing

094151 – Power Supply, 24 VDC

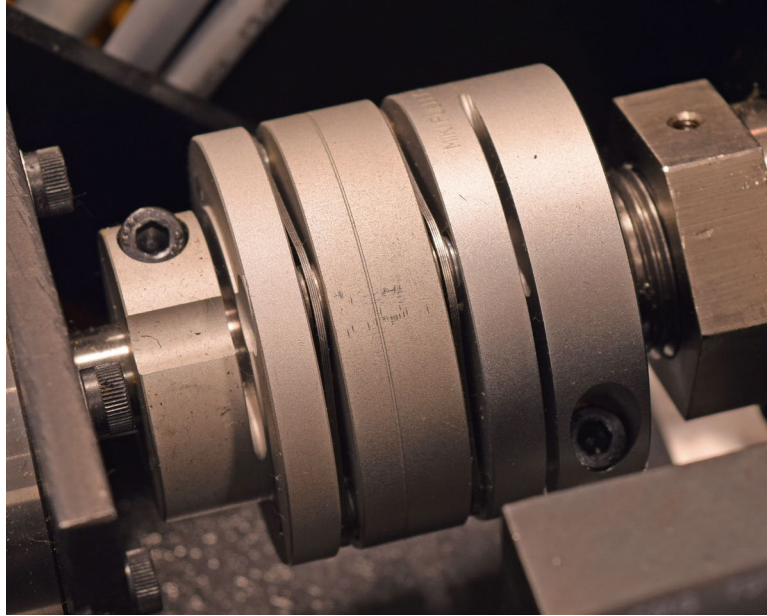


D10500012 - Gearbox



Picture shows the gearbox (silver on right) attached to the servo motor (left)

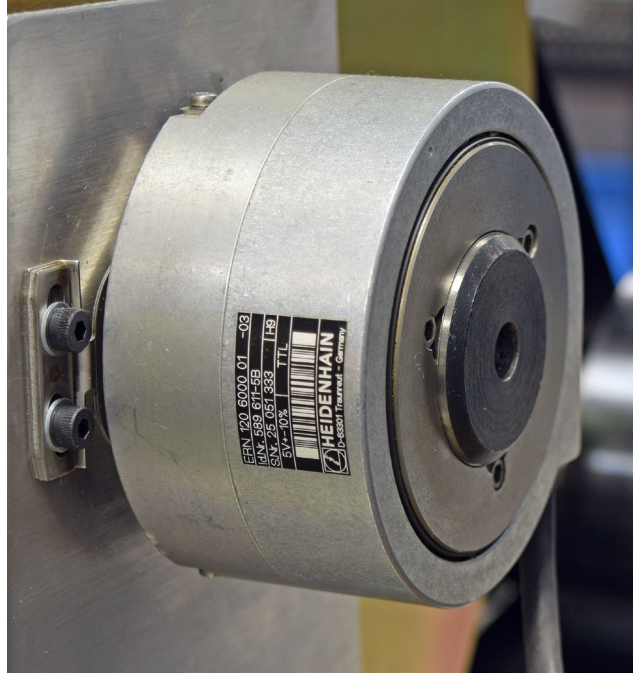
150625_E – Flex Coupling



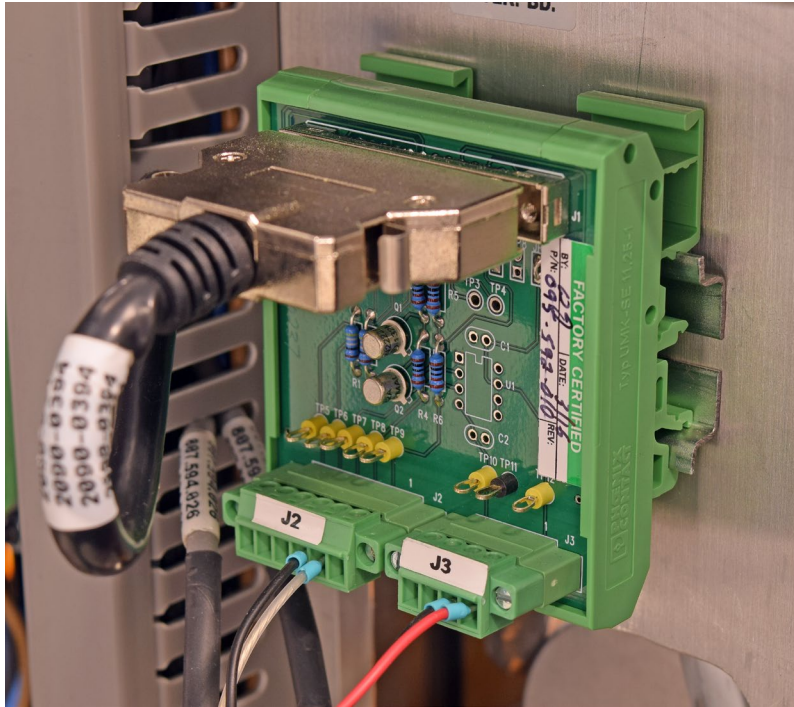
153322_C – Power Supply, 12 VDC



200815 – Rotary Encoder, 6k/Rev, Bore-thru



D095592010 – Interconnect Board, Step/Direct Drive

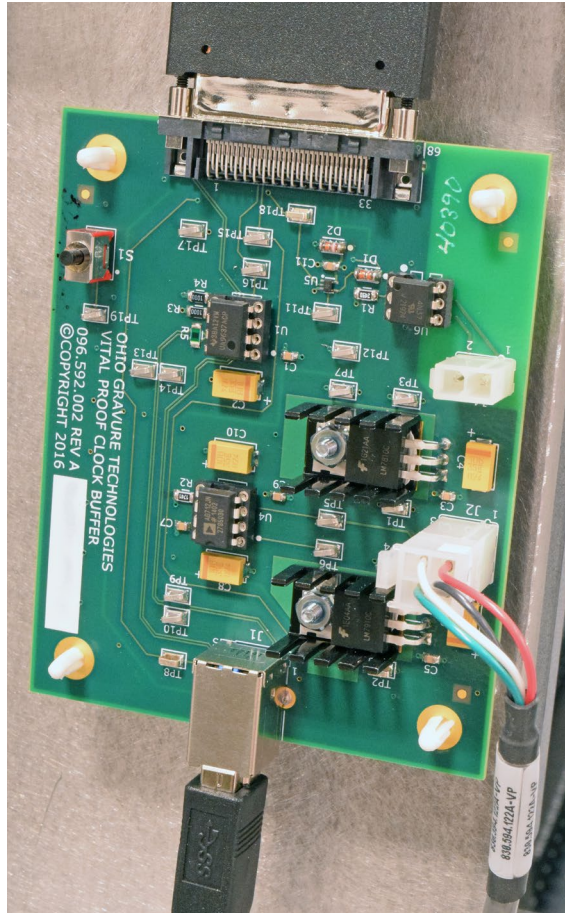


Shown on the machine



Shown on the machine

D096592002 – Vital Proof Clock Buffer Board



Shown on the machine

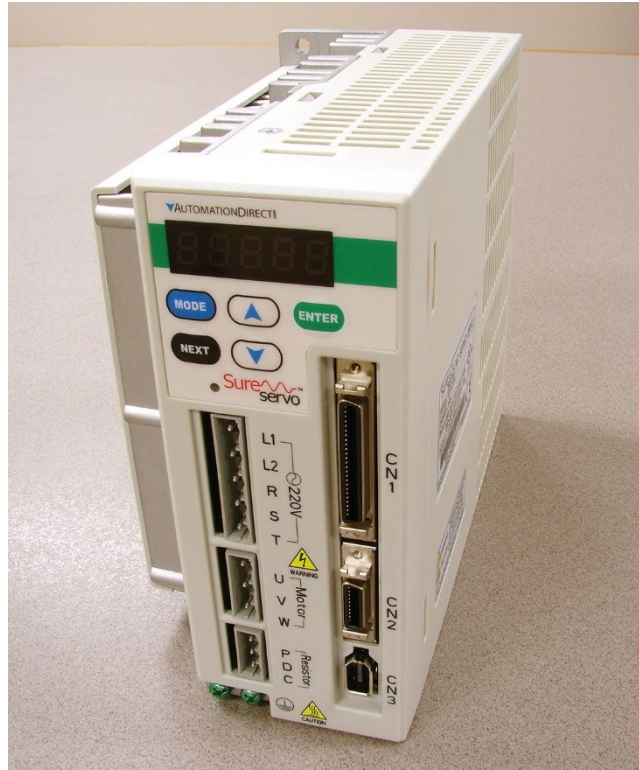
D101592010 – Embedded Computer and Software



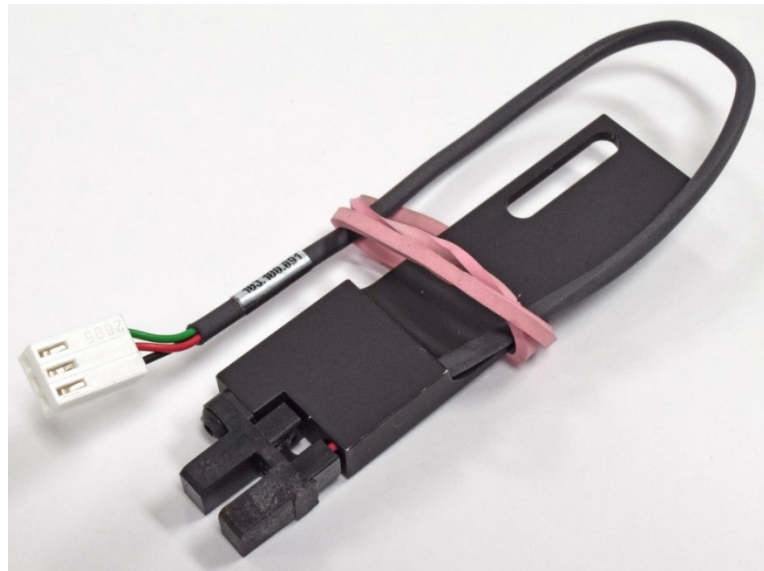
D100592026 – Slave Head Amplifier



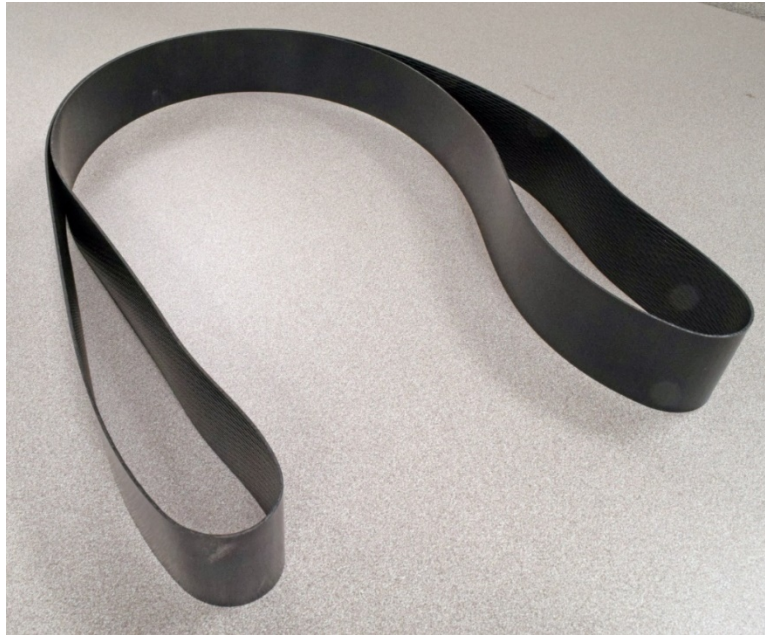
D100592037 – Motor Controller, Servo, 1KW, Programmed, Carriage Drive



D103100091 – Stylus Tool Sensor, Optical switch



D1120-0057 – Belt, Flat, 1540 mm (60.63 inch), Main Drive Belt



D1475-0027 – Vacuum Bag



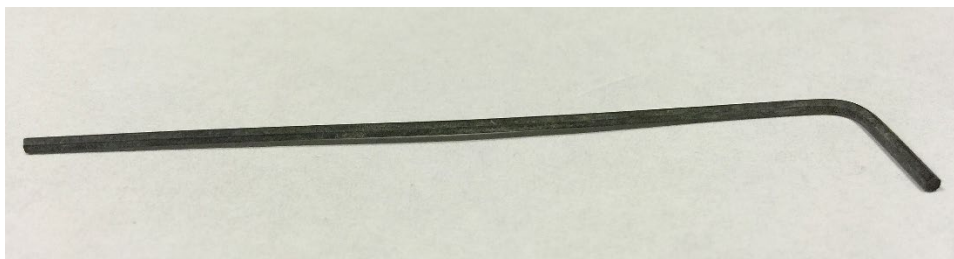
D1645-0024 – Grease



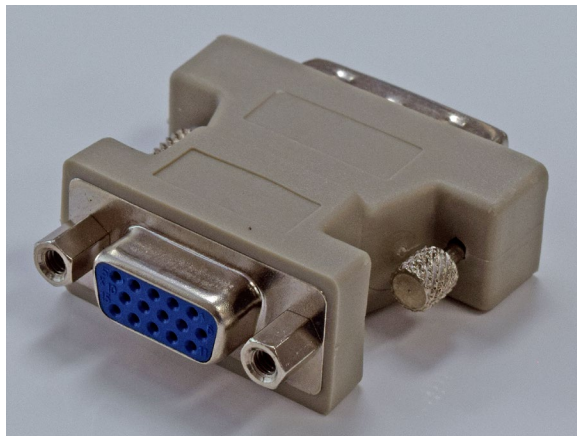
D1820-0001 – Spindle Screw, Jaw Adjustment, 3-jaw Chucks



D1850-0147 – HexKey Wrench, 0.050 inch



D2090-0448– Adapter, VGA (female) to DVI (Male)



D2090-0453 – Cable, VGA, Male to Male, 6 feet



D2090-0454 – Cable, USB, A to B, 6 feet



D2090-0471 – Cable, VHDCI, Male to Male, 6 feet



D2090-0479 – Cable, Ethernet – for ethernet version of Vista camera



D2090-0491 – Cable, VGA, Male to Male, 3 feet



D2090-0493 – Cable, Ethernet, CAT 5, Red, 7 feet



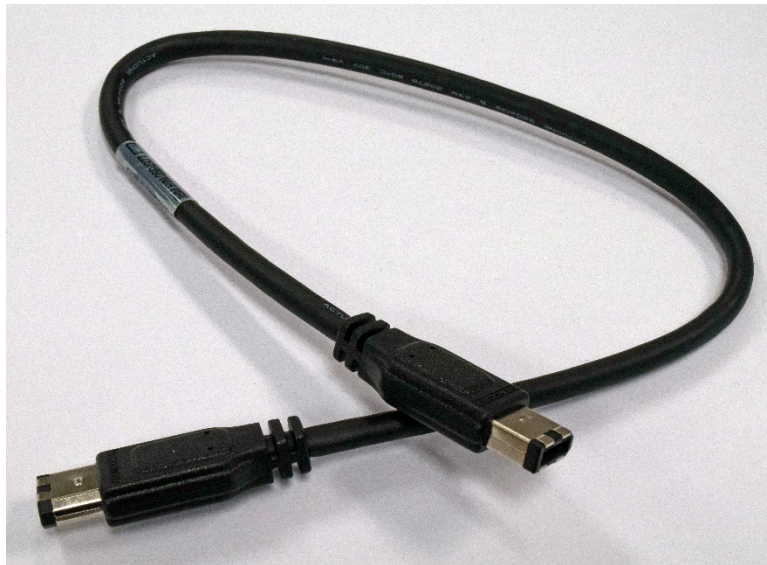
D2090-0494 – Cable, Ethernet, CAT 5, Green, 7 feet



D2143-0964 – Pointing Device, Touchpad



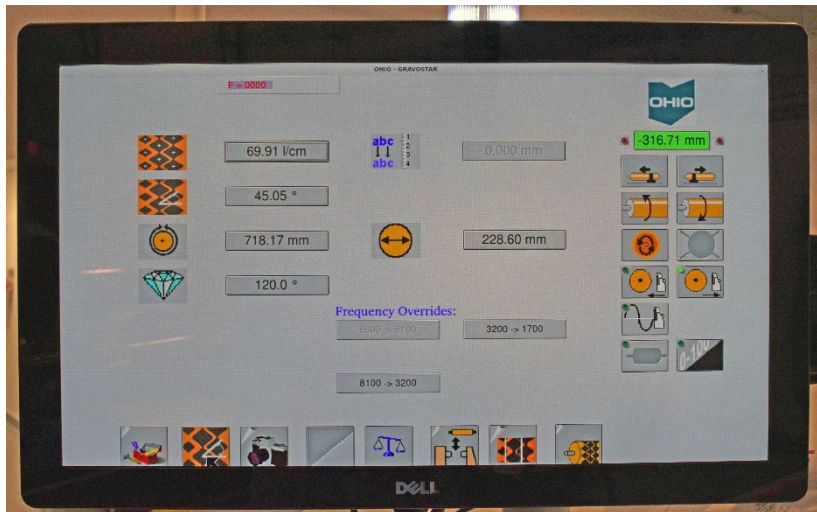
D2143-0973 – FireWire, 0.5 Meter



D2143-0974 – FireWire Cable, 10 Meters



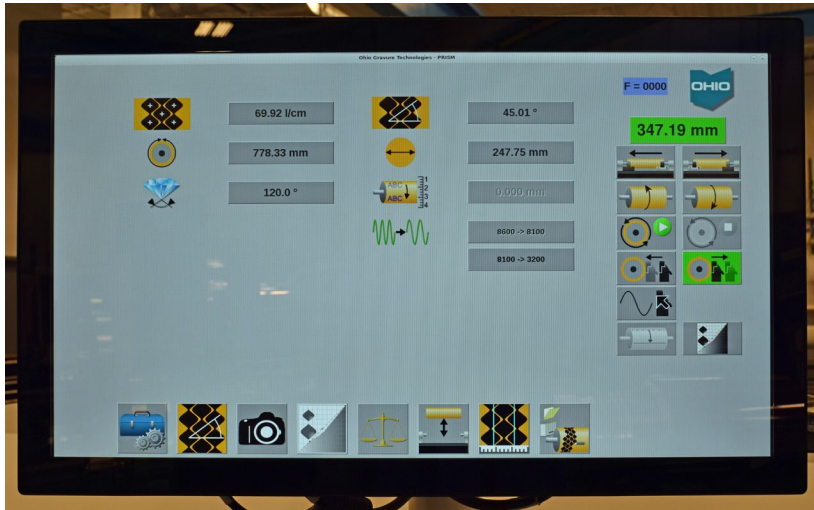
D2190-0038 – Touchscreen Display



D2190-0039 – Touchscreen Display for Prism XL

No picture available

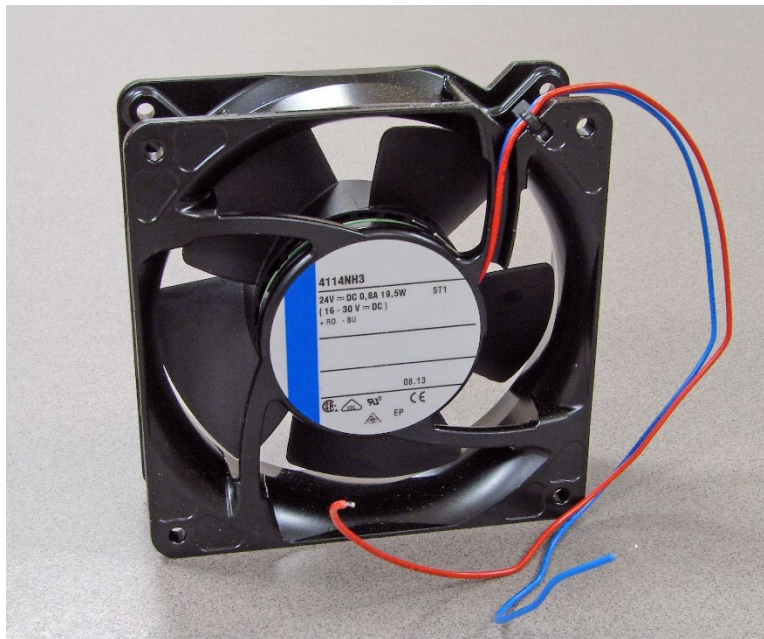
D2190-0044 – Touchscreen Display for Prism & Prism Prime



D2215-0003 – Fan, 240 VAC



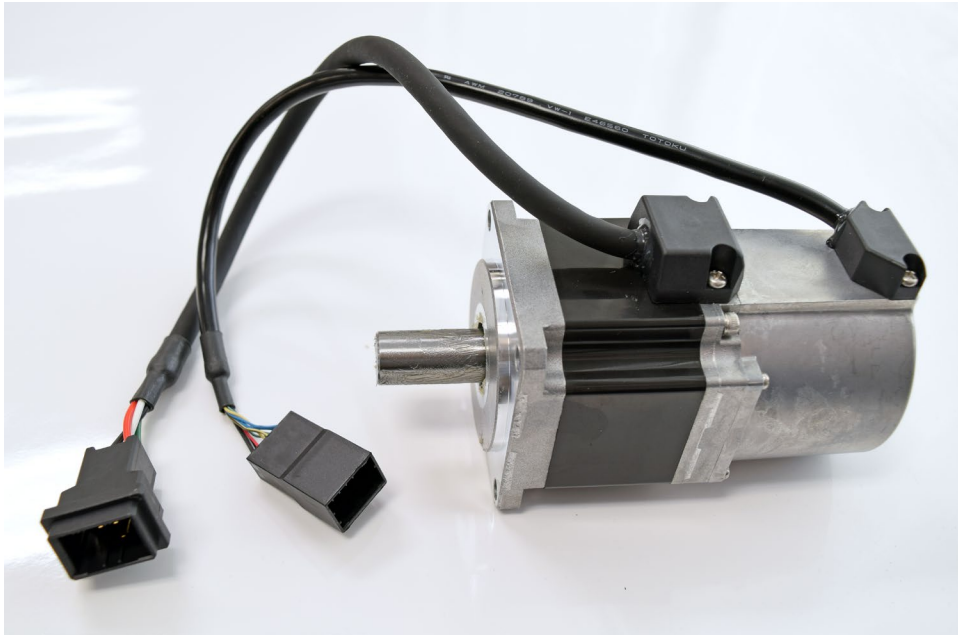
D2215-0041 – Fan, 24 VDC



D2365-0034 – Blower, Vacuum Motor



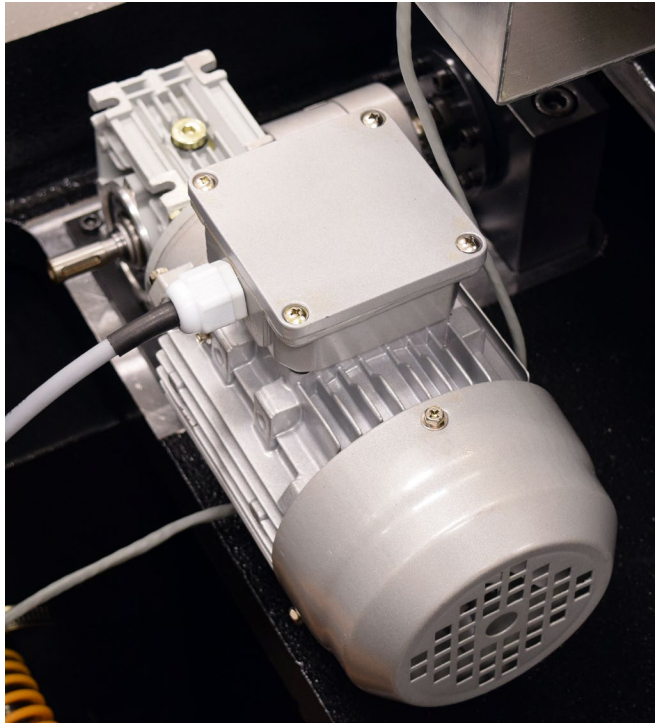
D2365-0117 – Motor, Servo



D2365-0127 – Motor, Main Cylinder Drive



D2365-0148 – Motor, Tailstock Drive



D2385-0049 – Motor Controller, AC Drive, 0.5 HP



D2465-0022 – Camera, Vista, FireWire



D2465-0023 – Camera, Vista, Ethernet



Shown with cap over lens.

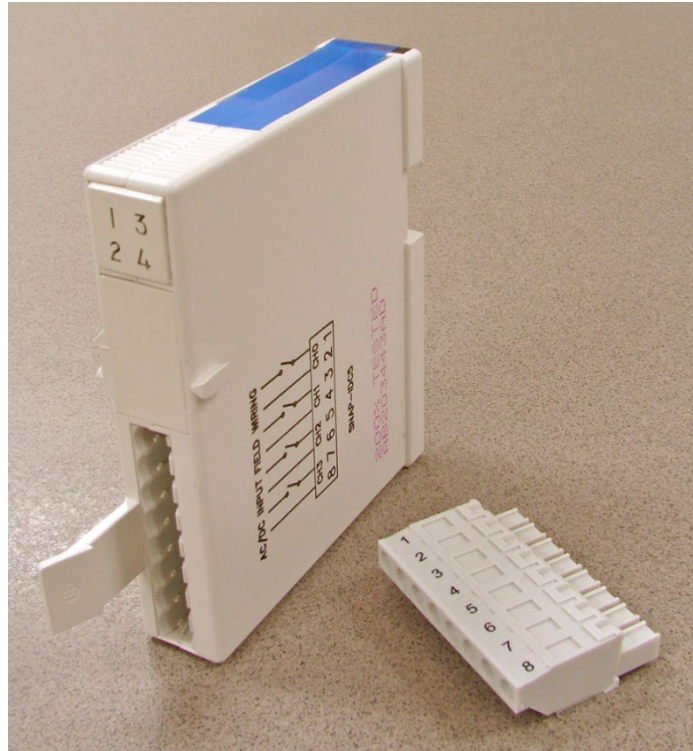
D2500-0119 – Uninterruptible Power Supply



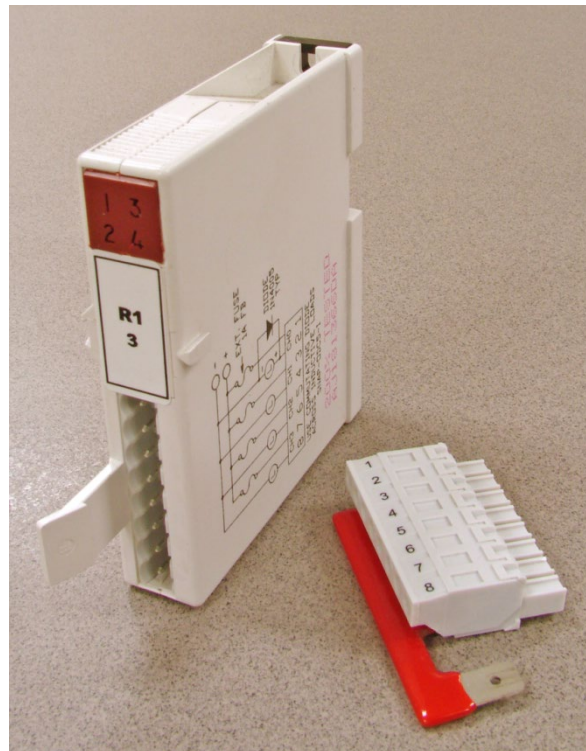
D2580-0050 – Contactor



D2580-0064 – Opto-Isolator Module, 4 Channel, Output



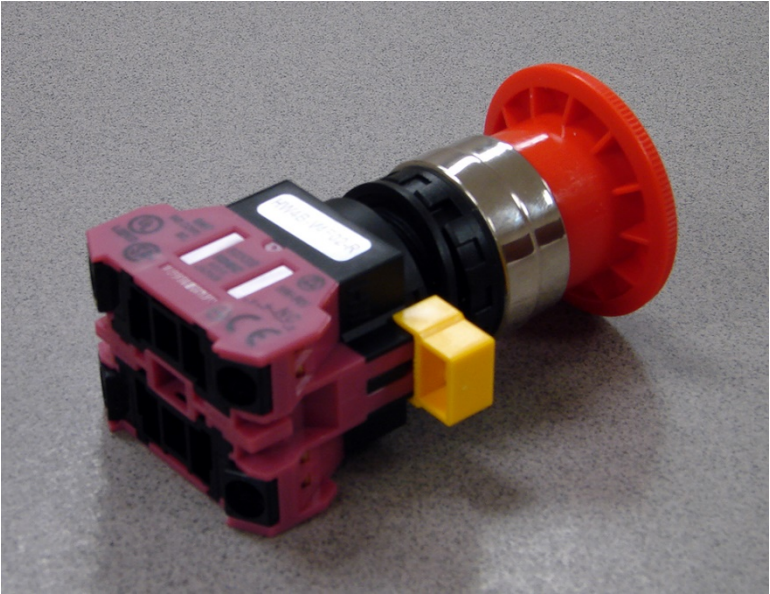
D2580-0067 – Opto-Isolator Module, 4 Channel, Input



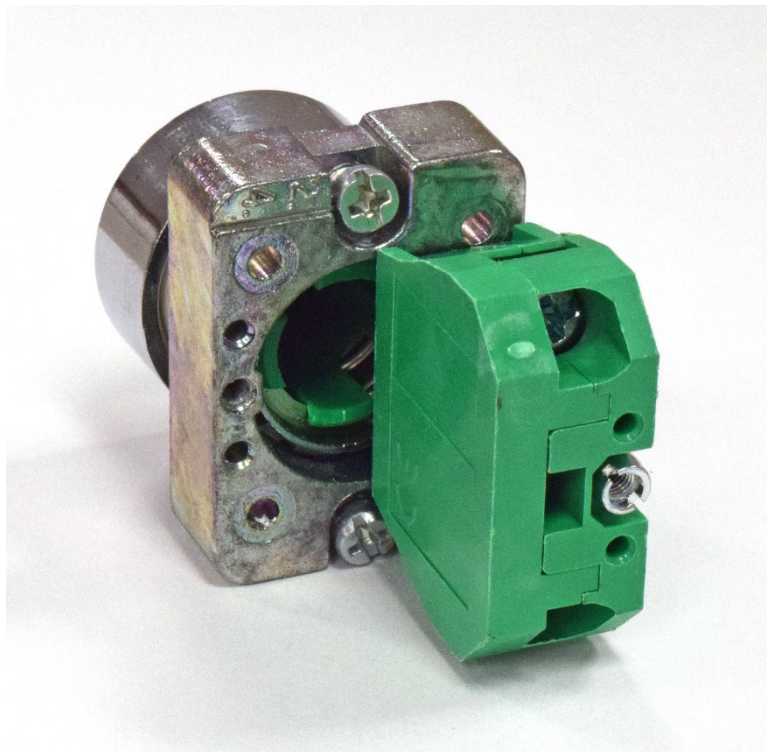
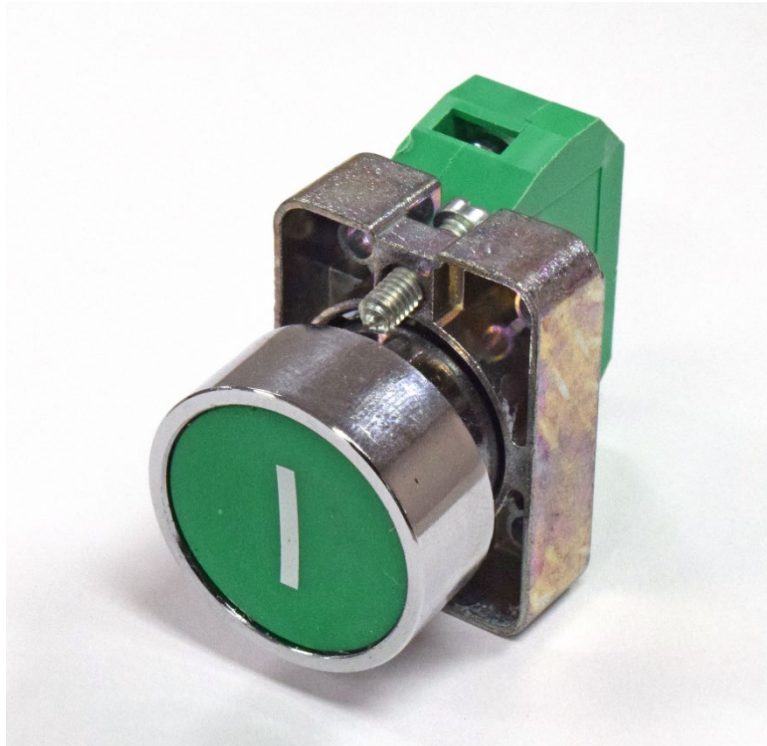
D2725-0010 – Line Filter, Ultra High Attenuation, AC Power



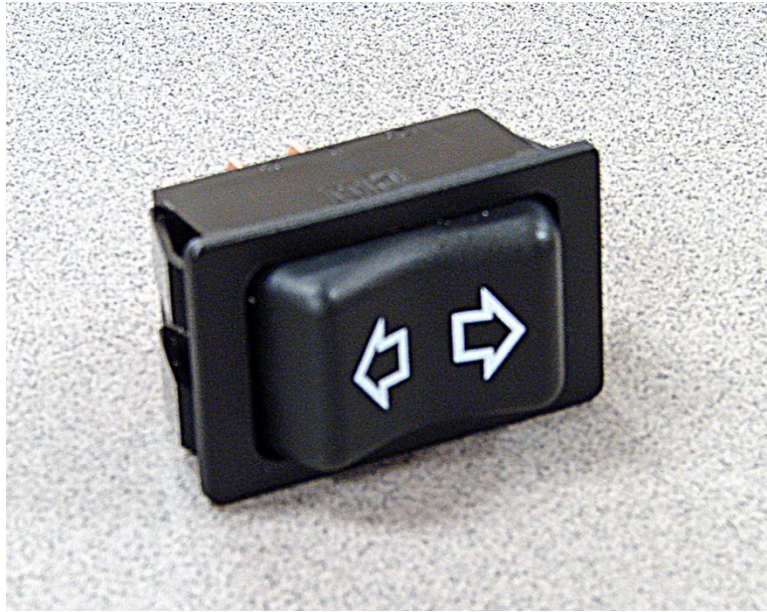
D2735-0145 – Switch, Pushbutton Locking, Mushroom Head



D2735-0188 – Switch, Momentary Action, Pushbutton, Green Face



D2735-0193 – Switch, Rocker Action, Carriage Direction



D2735-0196 – Switch, Pushbutton, Stocks Open



D2735-0197 – Switch, Pushbutton, Cylinder Clean



D2735-0198 – Switch, Pushbutton, Stocks Close



D2735-0199 – Switch, Pushbutton, Unlock Stocks



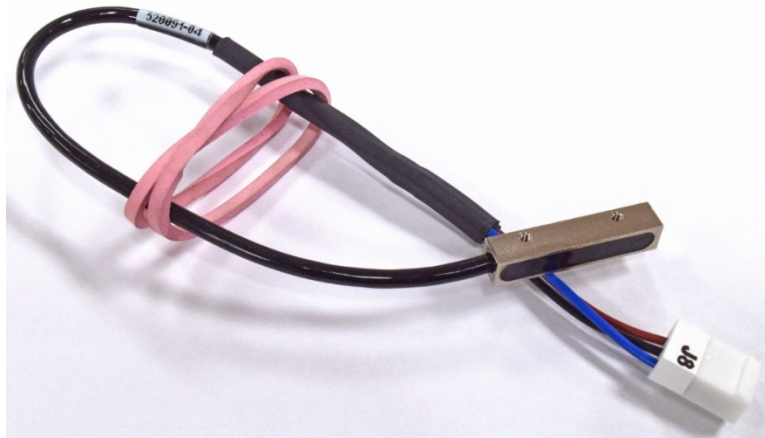
D370201-01 – Torx Bit, T7



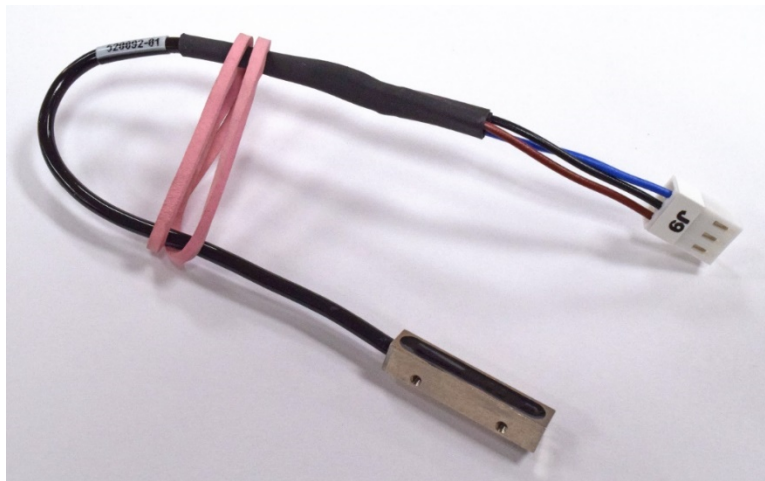
D370215-02 – Torque Driver, 20 cNm



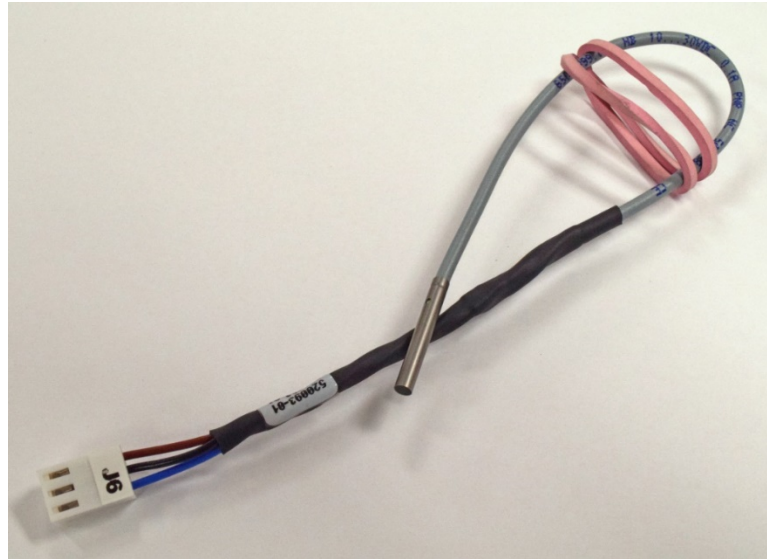
D520091-04 – Focus Prox



D520092-01 – Shoe Out Prox



D520093-04 – Burr Cutter Prox



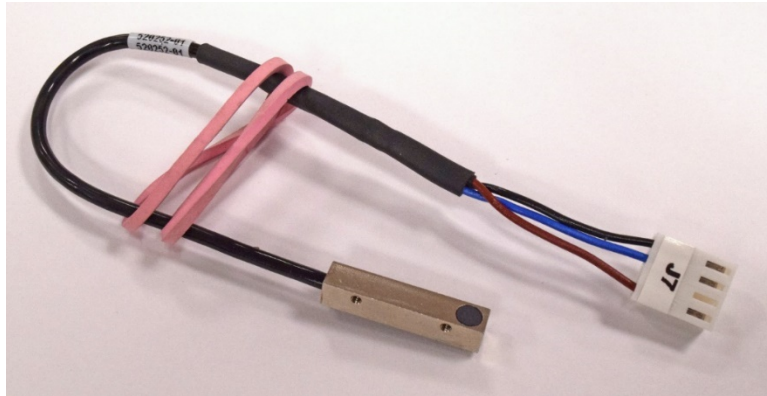
D520201-16 – Embedded Computer and Software – Prism and Prism Prime

D520201-17 – Embedded Computer and Software – Prism XL machine only



Outside of PC looks the same for both -16 and -17 units

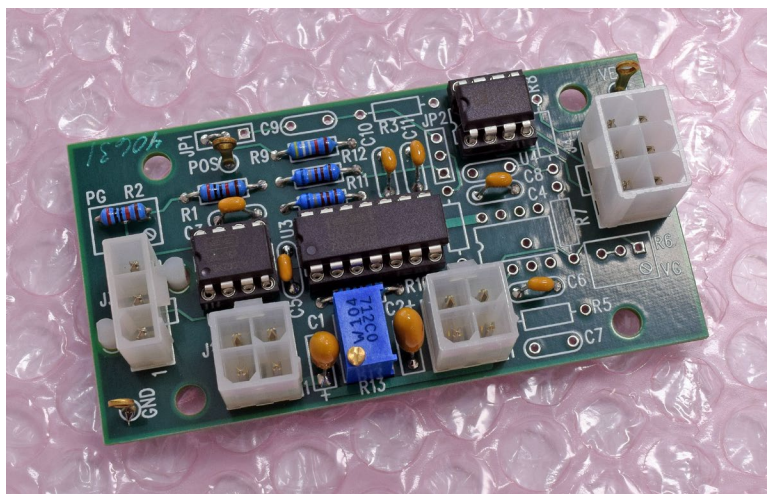
D520252-01 – Shoe In Prox



D520274-11 – Tip Cal Interface PCB



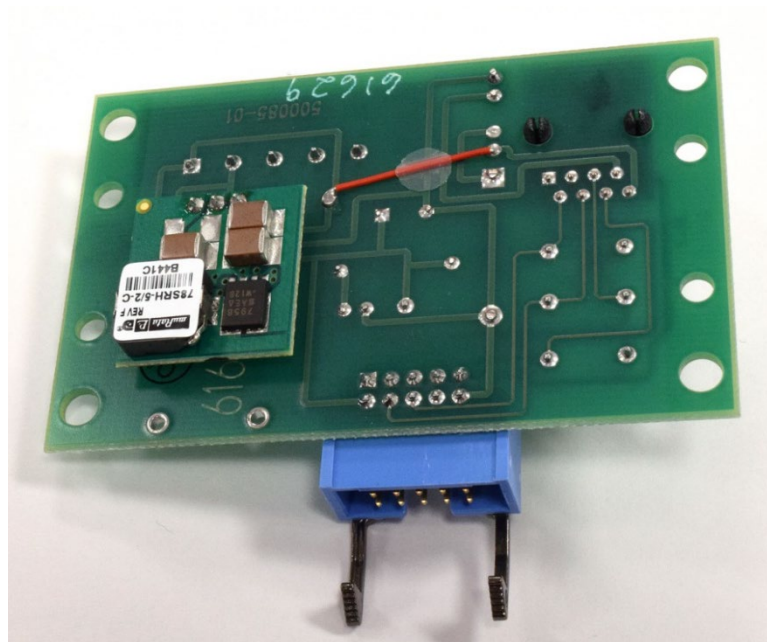
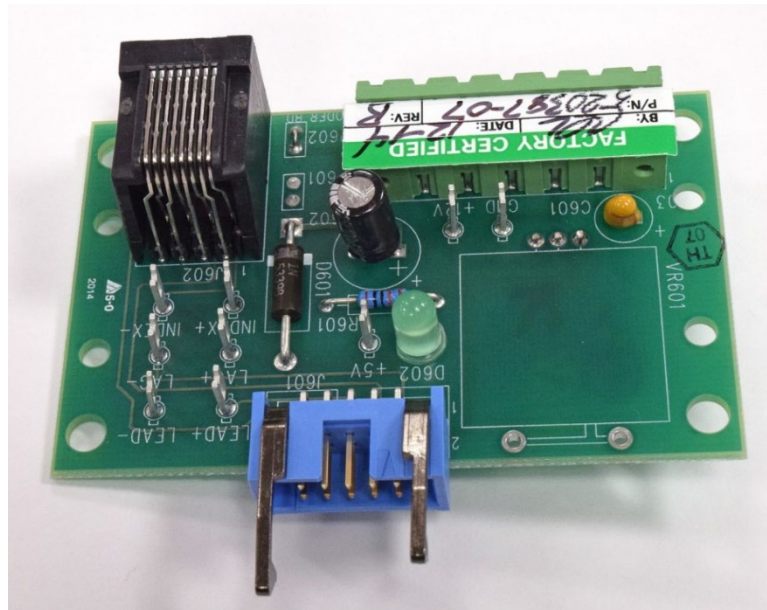
D520274-12 – Vital Proof, Kaman Vista PCB



D520277-14 – Head Feedback Position Sensor Assembly



D520387-07 – Encoder PCB



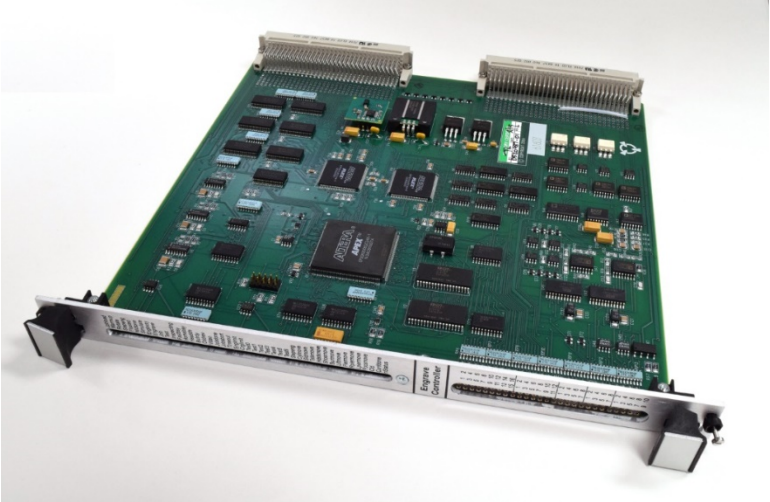
D520482-02 –High Voltage Power Supply



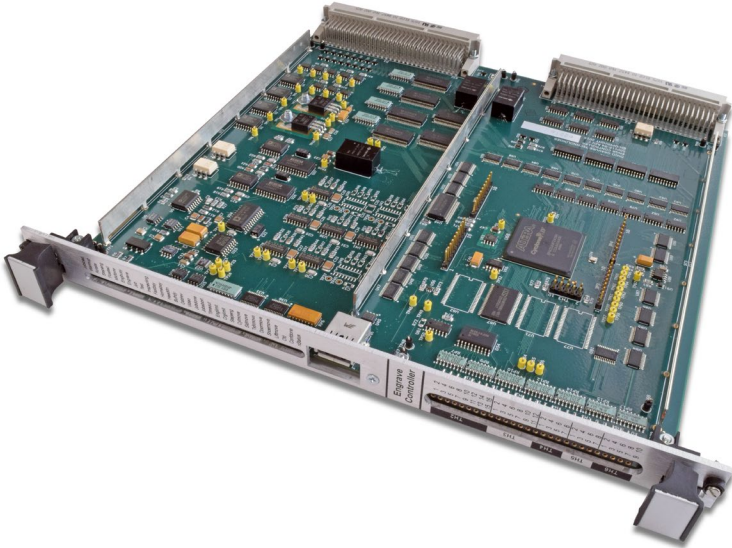
D520483-02 – Low Voltage Power Supply



D520487-01 – Automated Engraver Controller PCB

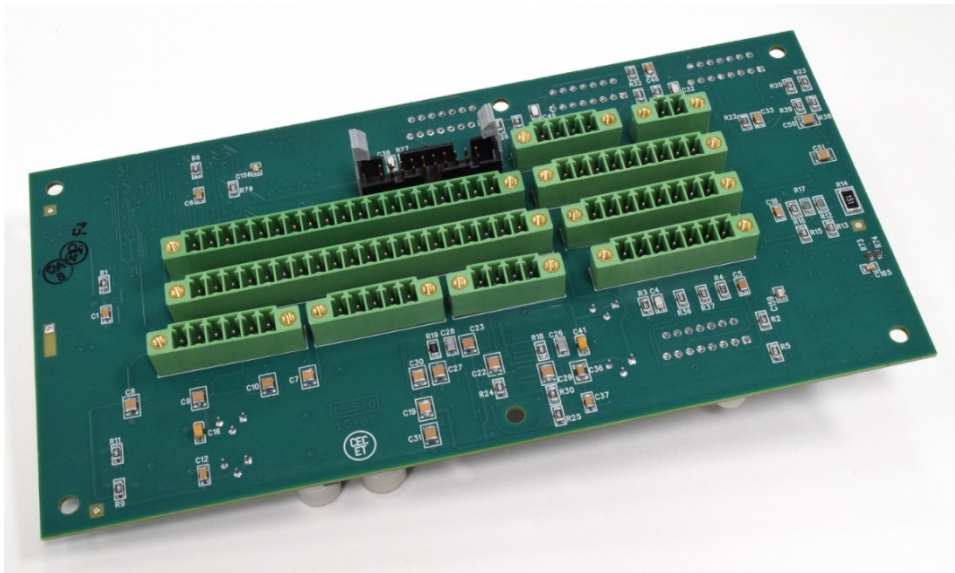


D520487-04 – Automated Engraver Controller PCB

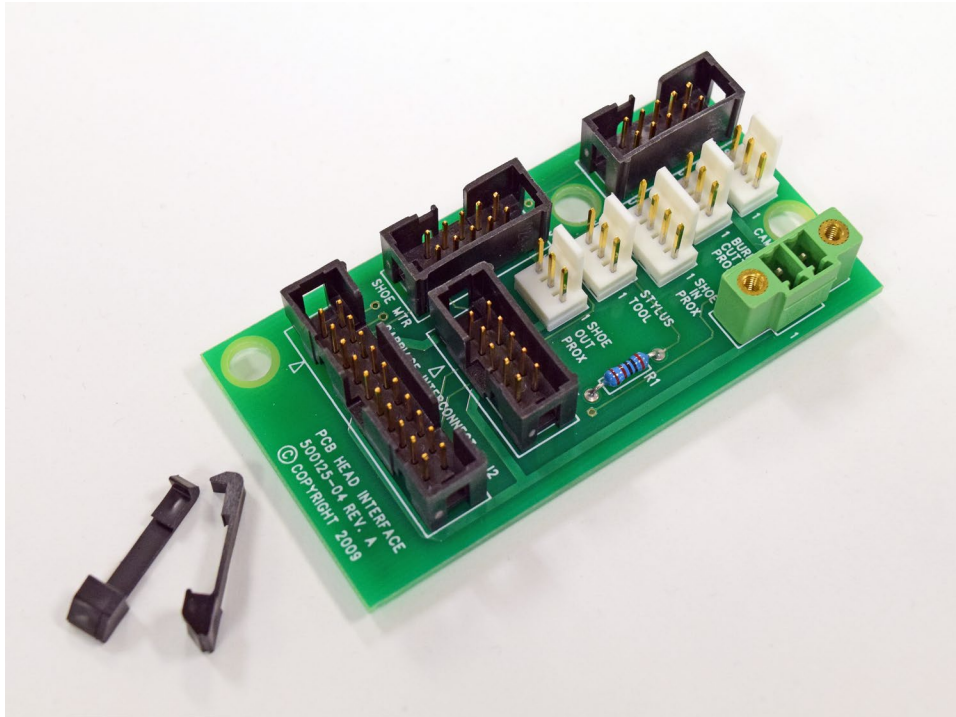


Shown with board stiffeners

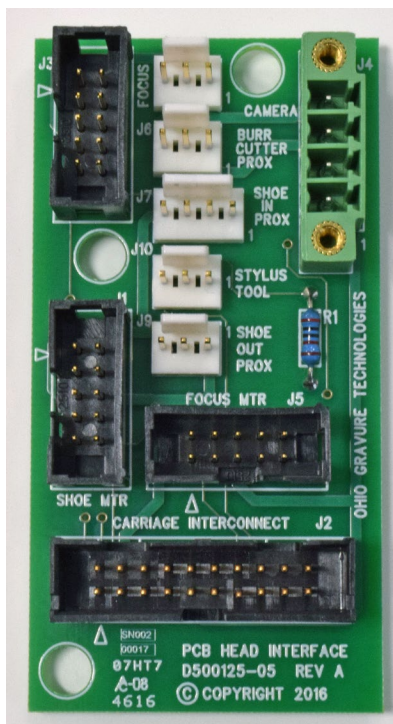
D520497-03 – Carriage Interface PCB



D520523-04 – Head Interface Board – for FireWire Vista camera



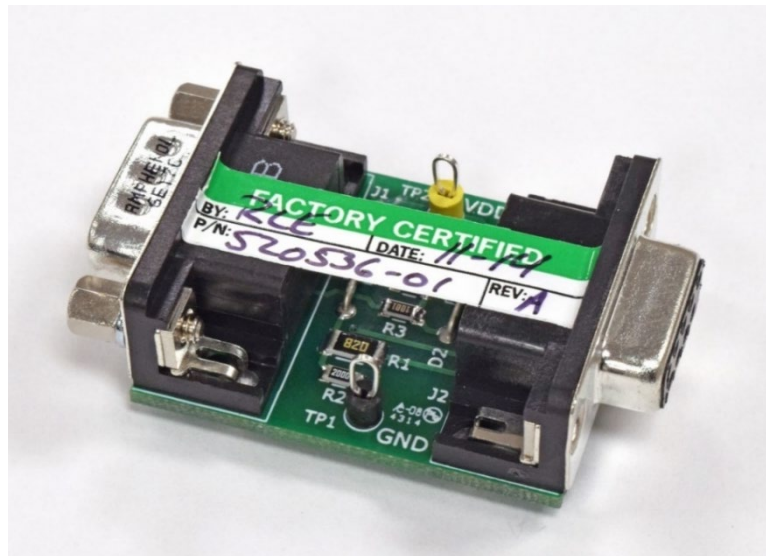
D520523-05 – Head Interface Board – for Ethernet Vista camera



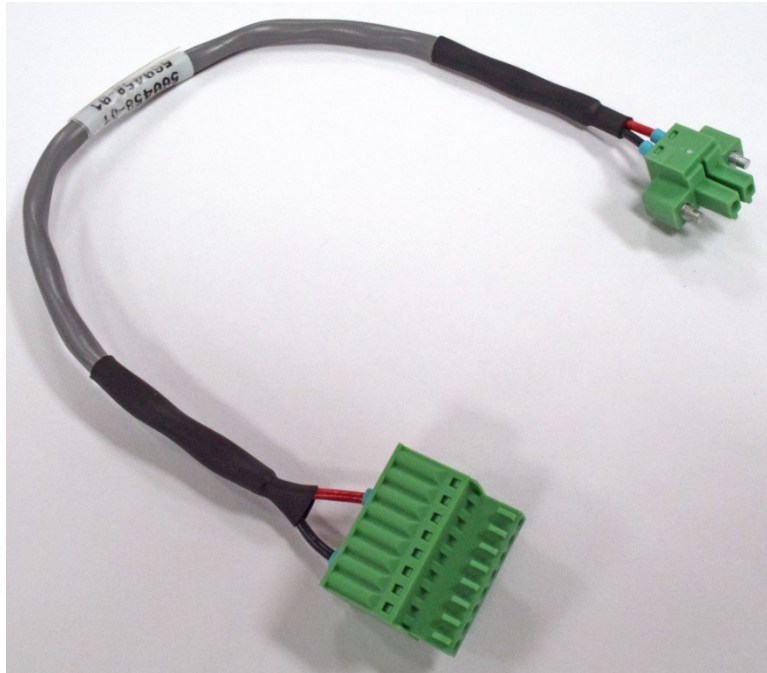
D520523-06 – Head Interface Board



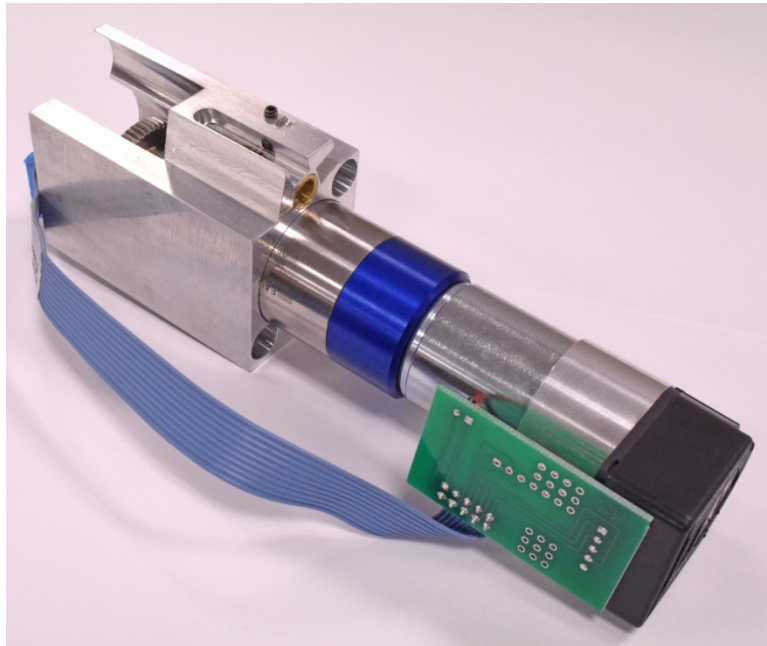
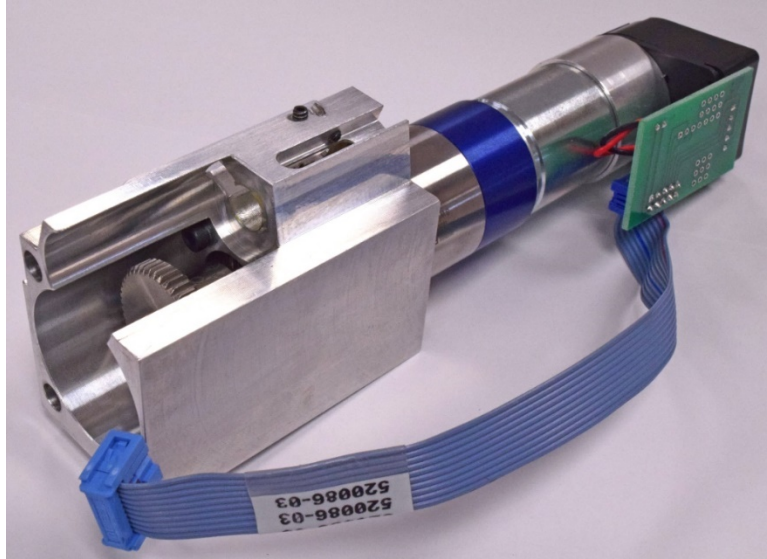
D520536-01 – Strobe Limiter PCB



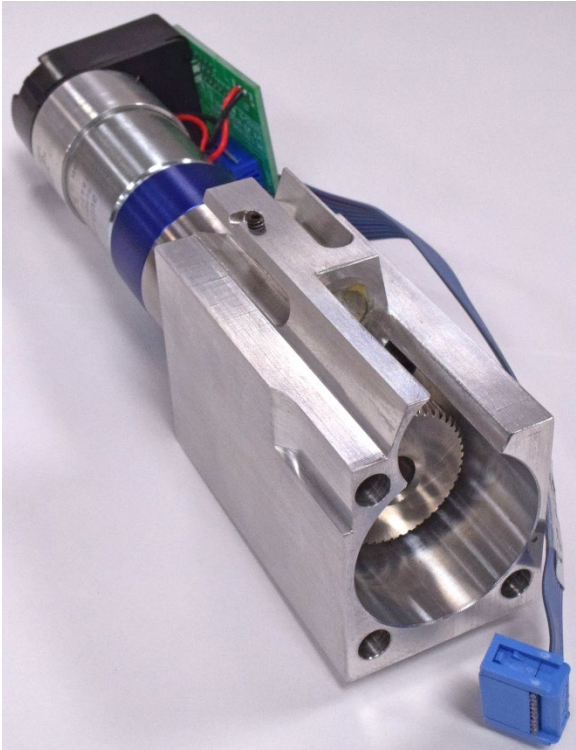
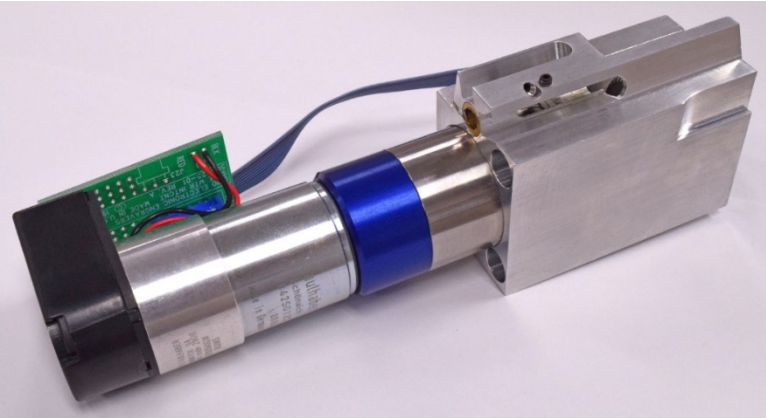
D560458-01 – Power Cable for Camera, FireWire



D803101011 – Shoe Motor Assembly



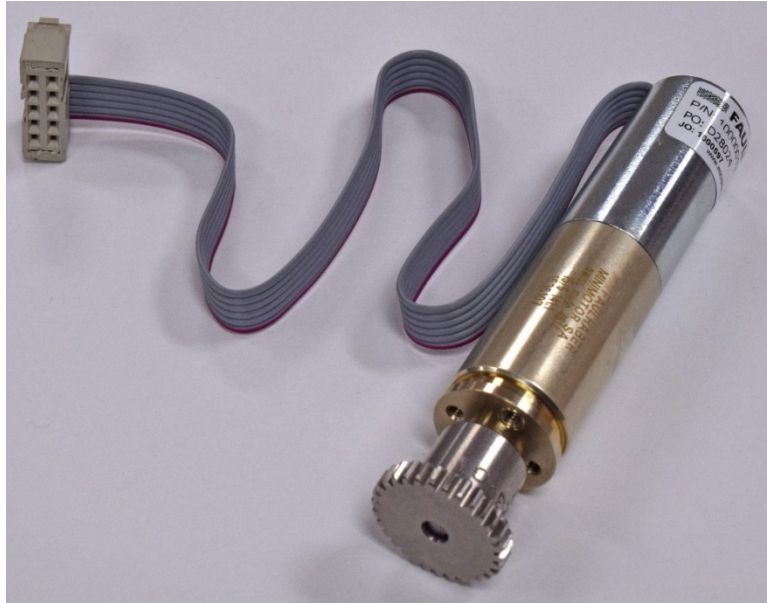
D803101011 – Shoe Motor Assembly – continued



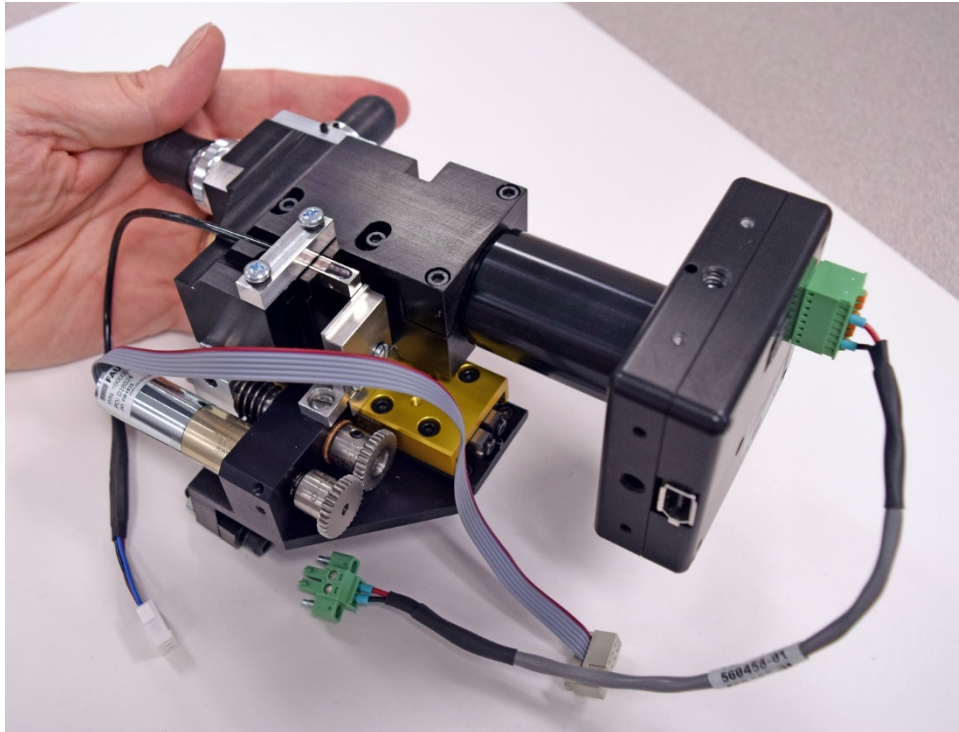
D803101012 – Burr Cutter Motor Assembly



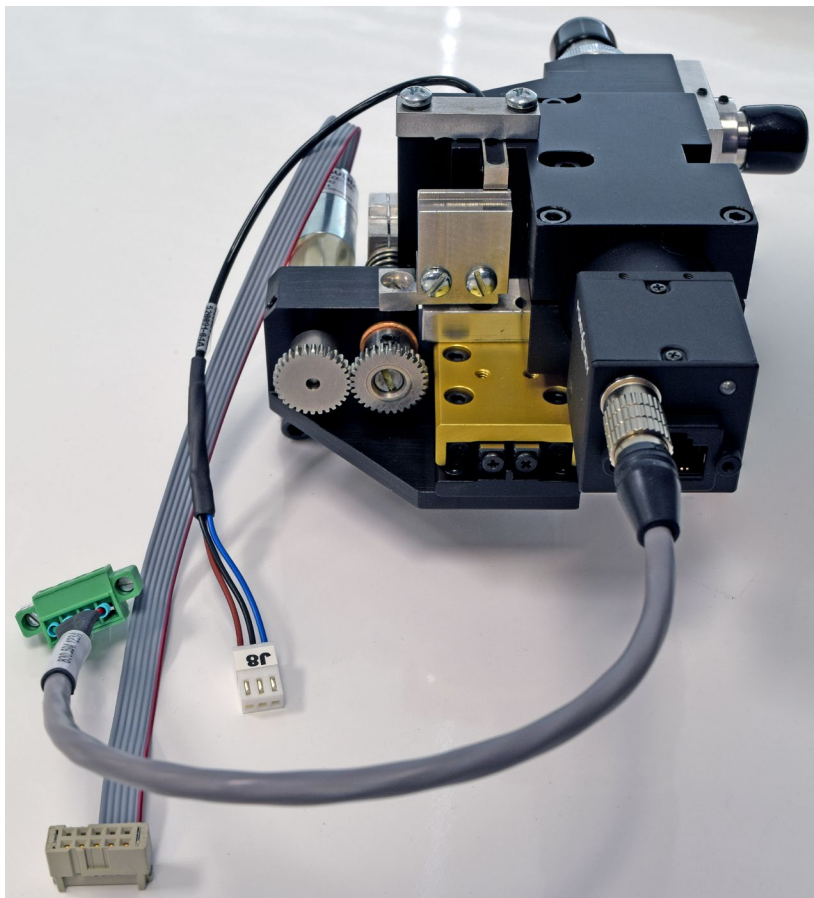
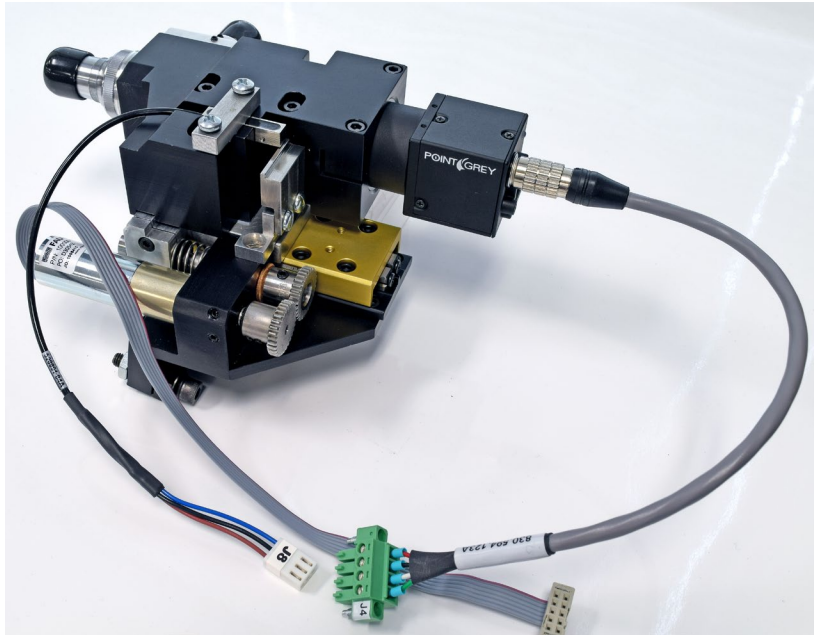
D803101013 – Focus Motor Assembly



D803751013 – VISTA Optical Assembly, FireWire



D803751026 – Optical Assembly, Motorized, Ethernet Camera



Ethernet camera

D803900042 – Engrave Head Air Filters



D807400009 – Expandable Vacuum Hose



D807400034 – Vacuum Hose



Located directly behind the engrave head.

110 mm in length

D807592008 – Motor, Head Slide



D817580022 – Strobe Assembly



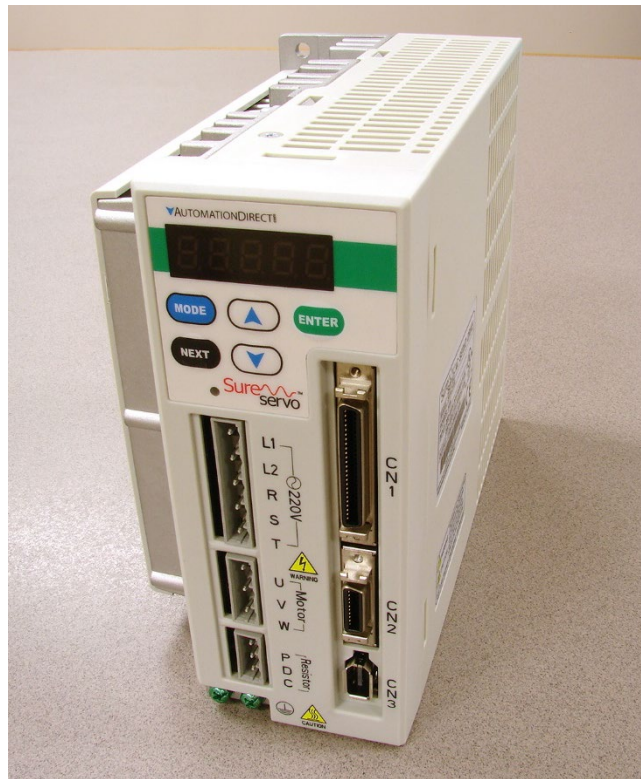
D817594080 – FireWire Repeater



D817730024 – Extracting Bolt



D807550012 – Motor Controller, Servo, 1KW, Programmed, Cylinder Drive



D8XX592005 – Switch, Proximity, Left Limit Prox

XX changes based on machine type as follows:

07 is for Prism

08 is for Prism XL



D8XX592006 – Switch, Proximity, Right Limit Prox

XX changes based on machine type as follows:

07 is for Prism

08 is for Prism XL



D8XX594048 – Head Interface Cable

XX changes based on machine type as follows:
07 is for Prism
08 is for Prism XL

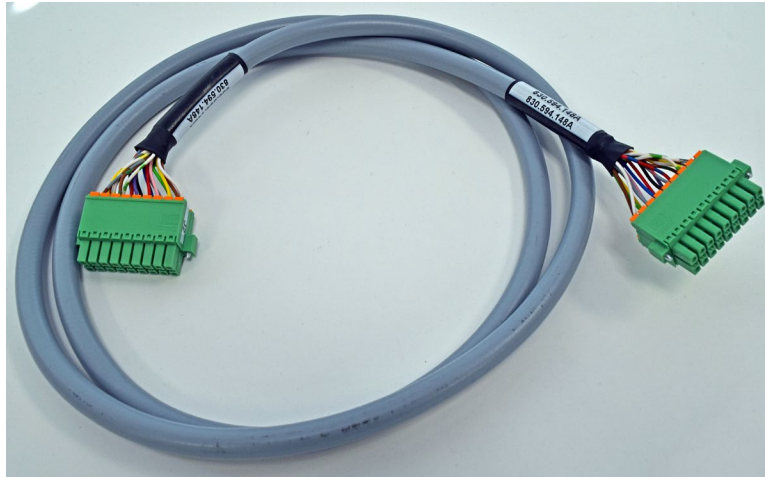


D8XX594123 – Power Cable, Camera (Ethernet type)

XX changes based on machine type as follows:
07 is for Prism
08 is for Prism XL



D807594148-P – Head Interface Cable



For use with 520523-06 Head Interface Boards only.

Used with Ethernet cameras.

D8XX592003 – Switch, Proximity, Head Down Sensor

XX changes based on machine type as follows:

07 is for Prism

08 is for Prism XL

