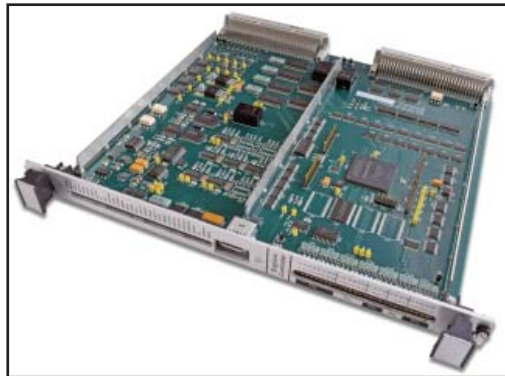




SPECTRUM

PARTS CATALOG

For all Spectrum models



SPECTRUM

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Introduction

About the Spectrum Engraver

The Spectrum engraver from OHIO Gravure Technologies is 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 Spectrum 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.

The Parts List and Parts Photographs sections work together. Links in the Parts List open up the appropriate large photograph in the Parts Photographs.

NOTE: Please be aware that development on the Spectrum is on-going to ensure that the best possible results are produced by the Spectrum. Please be careful when reviewing a part in this manual that it matches the part on your engraver. In most cases, there is but one choice, but in some cases there are multiple choices.

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.

Use of Non-Original Parts

OHIO GT strongly recommends the use of original parts for repairing or replacing worn parts, and lubrication. OHIO GT cannot accept responsibility for machine damage or problems encountered due to use of non-authorized parts or material. Use of non-original parts during the warranty period will void the warranty.





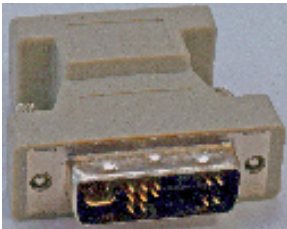
Parts List by Machine Area

Consumables

OGT Part Number / Description	Comments	
D1475-0027 – Vacuum Bag	<p><i>Change every week!</i></p> <p>Included in the yearly consumables kit.</p>	
D1645-0024 – Grease	<p>Grease for the machine</p>	
D803900042 – Engrave Head Air Filters	<p><i>Replace every 2 weeks!</i></p> <p>Picture shows individual pieces. Part number is for a pack of 24 pieces.</p> <p>Included in the yearly consumables kit.</p>	
D817100072 – Enclosure Air Filter	<p>Cloth filter for the bottom of the electrical enclosure on the Spectrum.</p> <p>Not for Spectrum A (Auto) machines</p>	
D817400103 – Expandable Vacuum Hose	<p>Replace yearly.</p> <p>Runs across the carriage. Secured using hose clamps.</p> <p>Included in the yearly consumables kit.</p> <p>127 mm in length.</p>	

OGT Part Number / Description	Comments	
D817400140 – Vacuum Hose	<p>Replace twice a year.</p> <p>Is directly behind the engrave head.</p> <p>200 mm in length</p> <p>For Large Format Spectrums.</p>	
821400011 – Expandable Vacuum Hose	<p>Replace yearly.</p> <p>This hose runs across the carriage and has a hose clamp at each end to secure to metal hoses.</p> <p>178 mm in length.</p> <p>For Large Format Spectrums.</p>	
D830100050 – Expandable Vacuum Hose	<p>Replace yearly.</p> <p>This hose runs across the carriage and has a hose clamp at each end to secure to metal hoses.</p> <p>178 mm in length.</p> <p>For current Spectrum Auto machines.</p> <p>Not for Large Format.</p>	
D830100051 – Vacuum Hose	<p>Replace twice a year.</p> <p>Is directly behind the engrave head.</p> <p>114 mm in length.</p> <p>For current Spectrums Auto machines. Not for Large Format.</p>	

Electrical Enclosure


OGT Part Number / Description	Comments	
D093110010 – Fedora Operating System CD	Linux Operating Software. OS version must be identified.	
D096592002 – Vital Proof Clock Buffer board	Mounted on the electrical panel	
D100592025 – Master Head Amp, Complimentary Lateral	One used per machine	
D100592025 – Slave Head Amp, Complimentary Lateral	Two used per machine	
D101592013 – Embedded Computer and Software	Controls both Embedded and RTI functions. This version has an SSD. For Fedora 20 and later. This part number does not include the keyboard, mouse, and Uninterruptible Power Supply.	
D2090-0448 – Adapter, DVI to VGA	Used with Vital Proof equipped machines. Used on the Vital Proof PC.	

OGT Part Number / Description	Comments	
D2090-0453 – Cable, VGA, Male to Male, 6 feet	Used with Vital Proof equipped machines.	
D2090-0454 – Cable, USB, 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.	
D2090-0470 – Cable, USB 3.0, A/M to B/M, 1 meter	USB cable running to touchscreen display	
D2090-0471 – Cable, VHDCI, Male to male, 6 feet	Used with Vital Proof equipped machines. Connects Vital Proof PC to Vital Proof Clock Buffer PCB	







OGT Part Number / Description	Comments	
D2090-0479 – Cable, Ethernet	Connects Embedded PC to Vista camera. Required for Spectrums using Ethernet camera	
D2090-0482 – Cable, Ethernet, CAT5, Blue, 7 feet	Used with Vital Proof equipped machines. Connects Ethernet entry of machine to network switch.	
D2090-0484 – Cable, VGA Splitter	Only used on Large Format machines.	
D2090-0491 – Cable, VGA, Male to Male, 3 feet	Used with Vital Proof equipped machines. Connects Viital Proof PC 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.	
D2090-0498 – Cable, Ethernet, CAT 5 Extender, Female to Male, 0.5 meter		No picture available
D2090-0502 – Cable, USB, A to B, Male to male, 3 meter	Used with Vital Proof equipped machines. Connects Network Switch to Touchscreen Display.	
D2143-0479 – Ethernet Card, PCI	Installed in embedded PC. Use with Ethernet Vista camera	No picture available

OGT Part Number / Description	Comments	
D2143-0968 – Repeater, USB Extension, USB to CAT5		
D2143-0973 - Cable, Firewire, 0.5 Meter	Connected repeater to Embedded PC. Required for Spectrums using a FireWire Vista camera.	
D2143-0974 – Cable, Firewire, 10 m	Connects Repeater to Vista camera. Required for Spectrums using a Firewire Vista camera	
D2143-0981 – Computer, Vital Proof		
D2143-0983 – Network Switch, Ethernet, 5-port, Gigabit		
D2143-1001 – Switch, KVM, Remote	Used with Vital Proof equipped machines	





OGT Part Number / Description	Comments	
D2143-1003 – Switch, KVM, 4-port	Used with Vital Proof equipped machines	
D2143-1005 – Hub, USB, 2-port	USB ports mounted on the stationary enclosure near the Power ON switch.	
D2190-0038 - Touchscreen Display, 22 inch	Obsolete part Replaced by D2190-0044	
D2190-0044 – Touchscreen Display, 22 inch		
D2215-0003 - Fan, 240 VAC	Enclosure fans on early Spectrums. Found on top of drive enclosure.	
D2215-0041 - Fan, 24 VDC	Card cage fans	
D2500-0127 – Power Supply	24 VDC Switching Supply	No picture available

OGT Part Number / Description	Comments	
D2580-0050 – Contactor	Power ON Relay, K5	
D2580-0064 – Opto-Isolator Module, 4-Channel, Output		
D2580-0067 – Opto-Isolator Module, 4-Channel, Input		
D2580-0076 - Relay, Safety, AD/DC, 23V 20/60HZ	For Emergency Stop loop	
D2580-0102 – Relay, 24 VDC, SPST	K3 and K4 for Autochucks	No picture available
D2580-0106 – Relay, 24 VDC, DPDT	K1 and K2 for Autochucks	No picture available
D2500-0119 – UPS, 220-240 VAC, 50-60 Hz	Uninterruptible Power Supply	

OGT Part Number / Description	Comments	
D2500-0128 – Power Supply, 60 VDC	60 VDC power supply for Auto Chucks, PS2 and PS3	No picture available
D2725-0010 - Line Filter, Ultra High-Attenuation, AP Power		
D2735-0145 - Switch, Pushbutton Locking, Mushroom Head	Emergency Stop pushbutton	
D2735-0188 - Switch, Pushbutton, Momentary Action, Green Face	Power ON Switch	
D520201-16 – Embedded Computer and Software	<p>Latest generation of Embedded PC. Controls both Embedded and RTI functions.</p> <p>This version has a SSD.</p> <p>For Fedora 20 and later.</p> <p>This part number includes keyboard, mouse, Uninterruptible Power Supply, Embedded SW and Fedora SW DVDs.</p>	
D520274-11 – Tip Cal Interface board		
D520274-12 – Vital Proof, Kaman Vista PCB	Used with Vital Proof equipped machines.	

OGT Part Number / Description	Comments	
D520482-02 – High Voltage Power Supply		
D520483-02 – Low Voltage Power Supply		
D520487-01 – Automated Engrave Control board	<i>OBSOLETE – Replaced by D520487-04</i>	
D520487-04 – Automated Engrave Control board		
D520526-01 – DC Motor Controller Board	For driving cylinder supports	
D817580032 – Motor Controller, Cylinder Motor Drive, Programmed <i>* See Comments -></i> <i>OBSOLETE – Replaced by D817580033</i>	Cylinder Drive Motor Controller. Verify this is the correct controller by looking at labeling on existing unit. It must read SOLOISTCP20-EXTSHUNT-DCT to choose this controller.	

OGT Part Number / Description	Comments	
<p>D817580033 – Motor Controller, Cylinder Motor, Programmed</p> <p>* See Comments -></p>	<p>Cylinder Drive Motor Controller.</p> <p>Verify this is the correct controller by looking at labeling on existing unit. It must read SOLOISTCP20-EXTSHUNT to choose this controller.</p>	
<p>D818550001 – Motor Controller, Linear Motor, Servo, Programmed</p>	<p>Linear Drive Motor Controller.</p> <p>For Compact, Packaging and Décor machines.</p>	
<p>D818550002 – Motor Controller, Cylinder Motor, Servo, Programmed</p>	<p>Cylinder Drive Motor Controller</p> <p>For Compact, Packaging, and Décor machines.</p>	
<p>D818550003 – Motor Controller, AC drive, Programmed</p> <p>* See Comments -></p>	<p>Headstock/Tailstock Drive Motor Controller</p> <p>For Compact, Packaging, and Décor machines.</p>	
<p>D818550012 – Motor Controller, Linear Motor, Servo, Programmed</p>	<p>Linear Drive Motor Controller.</p> <p>For Large Format machines.</p>	




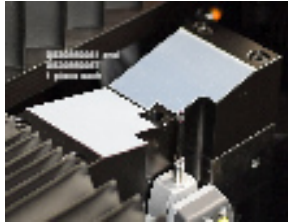

OGT Part Number / Description	Comments	
D818550013 – Motor Controller, Cylinder Motor, Servo, Programmed	Cylinder Drive Motor Controller For Large Format machines.	
D821550014 – Motor Controller, AC drive, Programmed	Headstock/Tailstock Drive Motor Controller For Large Format machines.	
D817594080 – Firewire Repeater	Required for Spectrums using a Firewire Vista camera	
D830592041 – Power Supply, 24 VDC	Power supply for cylinder diameter measurement	

Bed and Vacuum

OGT Part Number / Description	Comments	
<p>D1120-0052 – Belt, Poly V, 1473 mm (58 inch), 16 Rib</p>	<p>Main drive belt for first generation Spectrums (also called Gravostar G)</p>	
<p>D1120-0055 – Belt, Poly V, 1562 mm (61.5 inch), 6 Rib</p>	<p>Main drive belt for second generation Spectrums</p>	
<p>D1120-0057 – Flat Belt, 1540 mm (60.63 inch)</p>	<p>Main drive belt for third generation Spectrums (current production units)</p>	
<p>D1120-0058 – Flat Belt, 2125 mm (83.66 inch)</p>	<p>Main drive belt for Large Format Spectrums (current production units)</p>	
<p>D1120-0061 – Flat Belt, 1520 mm (59.84 inch)</p>	<p>Used on current generation Spectrums with flywheel pulley.</p>	

OGT Part Number / Description	Comments	
D1120-0060 – Timing Belt, Enclosed, 6 mm width	Length varies by machine type: Compact, Packaging, Décor	
D1120-0065 – Timing Belt, Enclosures, 9.5 mm width	Length varies by machine type: Compact, Packaging, Décor	
D1325-0144 – Coupling, Spider, Flexible	For cylinder supports. Fits into D1325-0145 coupling	
D1325-0145 – Coupling, Hub, Flexible	For cylinder supports. Used with D1325-0145 coupling	
D1325-0146 – Torque Limiter	Used on Headstock/Tailstock leadscrew of Spectrums with chain drive system. Sprocket D1525-0064 is pressed onto this unit. Assembled picture shown here.	
D1525-0064 – Sprocket, 22 teeth	Used on Headstock/Tailstock leadscrew of Spectrums with chain drive system. Torque Limiter D1325-0146 is used with this piece. Assembled picture shown here.	

OGT Part Number / Description	Comments	
D1525-0074 – Sprocket with hub, 24 teeth	Used on Headstock/Tailstock leadscrew of Spectrums with chain drive system.	
D1820-0001 – Spindle, Operating, Hex, Femal	For independent jaws on 3-Jaw Chucks	
D2365-0034 – Blower, DC Motor	Vacuum motor	
D2365-0127 – Motor, Servo	Cylinder Drive Motor	
D2485-0100 – Regulator, Pneumatic	Autochuck air filter	No picture available
D2545-0054 – Sensor, Proximity	Keyway Detector	No picture available
D2545-0072 – Sensor, Photoelectric	Doors closed sensor	
D2545-0080 – Dial Indicator, Electronic	Cylinder diameter measurement, mounted on cylinder supports	

OGT Part Number / Description	Comments	
D2545-0083 – Data Interface Box	For cylinder diameter measurement	 A black rectangular electronic device with a blue button and a cable attached.
D2735-0190 - Magnetic Switch	Doors closed sensor for Spectrum G machines (early machines)	 A small metal component with a cable attached, used as a sensor.
D520387-07 – Encoder Board		 A green printed circuit board with various electronic components and connectors.
D817320014 – Slip Clutch	Used on Headstock/Tailstock Leadscrew	 A cylindrical metal component with a textured surface and a central opening.
D818592025 – Motor, AC	Tailstock Drive Motor	 A silver cylindrical motor with a yellow cable attached.
D830550061 – Teflon Tape, Right Cylinder Support Head	Used on the tailstock side cylinder support. One piece is needed for the support head (use with D830550067 to cover the entire head).	 A close-up view of a white teflon tape being applied to a metal support head.
D830550062 – Teflon Tape, Left Cylinder Support Head	Used on the headstock side cylinder support. Two pieces are needed for the support head.	 A close-up view of a white teflon tape being applied to a metal support head.

OGT Part Number / Description	Comments	
D830550067 – Teflon Tape, Right Cylinder Support Head	Used on the tailstock side cylinder support. One piece is needed for the support head (use with D830550061 to cover the entire head).	
D818592004 – Switch, Proximity	Carriage Home prox	
D818592007 – Switch, Proximity	Tailstock Limit prox (non-symmetrical machines)	
D830592007 – Switch, Proximity	Stocks Home prox (symmetrical machines)	
D830592013 – Switch, Proximity	Cylinder present sensor on the cylinder supports	
D830592021 – Switch, Proximity	Covers open	
D830592022 – Switch, Proximity	Covers closed	

OGT Part Number / Description	Comments	
D830592015 – Motor, DC	Motor for driving enclosures	
D830592032 – Encoder	Encoder for head and tailstock leadscrew	
D830592016 – Switch, Proximity	Cylinder supports home	
D830592027 – Motor, Brushless, 90 VDC D831592027 – Motor, Brushless, 90 VDC D832592027 – Motor, Brushless, 90 VDC See Comments >	For driving headstock Autochuck D830592027 for Packaging D831592027 for Décor D832592027 for Large Format	
D830592036 – Motor, Brushless, 90 VDC D831592036 – Motor, Brushless, 90 VDC D832592036 – Motor, Brushless, 90 VDC See Comments >	For driving tailstock Autochuck D830592036 for Packaging D831592036 for Décor D832592036 for Large Format	
D830592034 – Motor, Brushless, 24 VDC D831592034 – Motor, Brushless, 24 VDC D832592034 – Motor, Brushless, 24 VDC D833592034 – Motor, Brushless, 24 VDC See Comments >	For driving cylinder supports D830592034 for Packaging D831592034 for Décor D832592034 for Large Format D833592034 for Compact	

OGT Part Number / Description	Comments	
D830594119 – Cable, Coiled	Power cable for cylinder diameter measurement	
D830594120 – Cable, Coiled	Cylinder Present prox on cylinder supports	
D818592030 – Rotary Encoder, 6k/Rev, Integral Shaft	For machines 1039 and higher D818592030 for Packaging D819592030 for Décor D821592030 for Large Format D830592030 for Packaging D831592030 for Décor D833592030 for Compact	
D819592030 – Rotary Encoder, 6k/Rev, Integral Shaft		
D821592030 – Rotary Encoder, 6k/Rev, Integral Shaft		
D830592030 – Rotary Encoder, 6k/Rev, Integral Shaft		
D831592030 – Rotary Encoder, 6k/Rev, Integral Shaft		
D833592030 – Rotary Encoder, 6k/Rev, Integral Shaft See Comments ->		
D818592017 – Rotary Encoder, 6k/Rev, Bore-thru encoder for mounting on shaft	For most machines before 1039. D818592017 for Packaging D819592017 for Décor D821592017 for Large Format	
D819592017 – Rotary Encoder, 6k/Rev, Bore-thru encoder for mounting on shaft		
D821592017 – Rotary Encoder, 6k/Rev, Bore-thru encoder for mounting on shaft		
See Comments ->		
D830592004 – Valve, Pneumatic	Used on Autochuck	No picture available

OGT Part Number / Description	Comments	
D830592017 – Sensor, Proximity	Headstock AutoChuck tool UP	No picture available
D830592023 – Sensor, Proximity	Tailstock AutoChuck tool UP	No picture available
D830592017 – Sensor, Proximity	Headstock AutoChuck tool DOWN	No picture available
D830592027 – Motor, DC	Headstock AutoChuck drive motor	No picture available
D830592028 – Switch, Pneumatic	AutoChuck air pressure switch	No picture available
D830592029 – Sensor, Proximity	Tailstock AutoChuck tool DOWN	No picture available
D830592036 – Motor, DC	Tailstock AutoChuck drive motor	No picture available
D830592039 – Sensor, Proximity	Headstock AutoChuck jaws open sensor	No picture available
D830592040 – Sensor, Proximity	Tailstock AutoChuck jaws open sensor	No picture available

Carriage, including Front and Rear Operator Pods

OGT Part Number / Description	Comments	
<i>D2143-0964 – Pointing Device, Touchpad</i>		
<i>D2735-0140 – Switch, Rocker Action, DPDT</i>	Power ON button. Early generation machines	
<i>D2735-0187 – Switch, White, Momentary Action, Pushbutton</i>	Rear control panel buttons for Cylinder Clean, Stocks Open, Stocks Close, and Stocks Unlock. Early generation machines.	
<i>D2735-0193 – Switch, Rocker Action, DPDT</i>	Used for Carriage Direction on front and rear control panels.	
<i>D2735-0196 – Switch, Printed, Momentary Action, Pushbutton</i>	Stocks Open pushbutton	


OGT Part Number / Description	Comments	
D2735-0197 – Switch, Printed, Momentary Action, Pushbutton	Cylinder Clean pushbutton	
D2735-0198 -- Switch, Printed, Momentary Action, Pushbutton	Stocks Closed pushbutton	
D2735-0199 – Switch, Printed, Momentary Action, Pushbutton	Stocks Unlock pushbutton	
D520497-03 – Carriage Interface PCB	Rev P includes connectors for Head Interconnect cables: - D818594048-CT (old type) - D830594148 (new type used on Spectrum 1092 and later) Revs prior to P must use D818594048-CT cables.	
D520498-05 – Display Englosure with Touchscreen	On the early model Spectrums	
D520536-01 – Strobe Limiter PCB	Standard on new units. Part of upgrade for older units.	

OGT Part Number / Description	Comments	
D817400090 – Travel Stop		
D817400103 – Expandable Vacuum Hose	127 mm in length. This hose runs across the carriage and has a hose clamp at each end to secure to metal hoses.	
821400011 – Expandable Vacuum Hose	For Large Format machines 178 mm in length. This hose runs across the carriage and has a hose clamp at each end to secure to metal hoses.	
D817580022 – Upgrade, Replacement, Strobe Assembly	Replaces previous version of strobe. Standard on new Spectrums	
D2420-0089 – Light Bundle, Fiber Optic	Provides light for the Vista camera assembly. Runs between the camera assembly and the strobe unit.	
D818592005 – Switch, Proximity	Left Limit prox	
D830592005 – Switch, Proximity		

OGT Part Number / Description	Comments	
D818592006 – Switch, Proximity	Right Limit prox	
D830592006 – Switch, Proximity		
D819592003 – Switch, Proximity	Head Down Sensor for Décor machines except #1036, #1038 and later. See D819592003-CT for those machines	
D819592003-CT – Switch, Proximity	Head Down Sensor for Décor machines #1036, #1038 and later that use flexible cable carrier.	
D830592031 – Switch, Proximity	Head Fully Retract sensor	
D831592031 – Switch, Proximity	Head Fully Retract sensor	
D821400022 – Rubber Travel Stop		







OGT Part Number / Description	Comments	
D821592003 – Switch, Proximity	Head Down Sensor for LF machine #1022. See D82159200-CT for later LF machines.	
D821592003-CT – Switch, Proximity	Head Down Sensor for LF machines #1043 and later that use flexible cable carrier.	
D830100050 – Expandable Vacuum Hose	This hose runs across the carriage and has a hose clamp at each end to secure to metal hoses. 178 mm in length. For current Spectrum Auto machines. Not for Large Format.	
D830592004 – Switch, Proximity	Carriage Home prox	
D830592018 – Assembly, Sensor, Photonic	Cylinder end seeking prox, right side of head	
D830592019 – Assembly, Sensor, Photonic	Cylinder end seeking prox, left side of head	






OGT Part Number / Description	Comments	
D830592044 – LVDT	TIR Measurement	
D817400127 – Sub-Carriage Leadscrew Bearing Block		
D817400127 Rev A – Sub-Carriage Leadscrew Bearing Block	Latest version of bearing block. Does not have slot of the previous version (see above).	
D817400128 – Sub-Carriage Leadscrew Bearing Block Plate		
D817580023 – Motor, Head Slide	For moving the sub-carriage/engrave head.	
D818594048-CT – Head Interface Cable	Used with Head Interconnect board 520523-04 or -05. Used on all machines before 1092. Replaced by D830594148 on machine and 1092 and later. See information with D830594148 (below)	

OGT Part Number / Description	Comments	
D830594148 – Cable, Head Interconnect	<p>Latest generation of Head Interface cable used on machines 1092 and later.</p> <p>If used as a replacement for D818594048-CT – Head Interface Cable, a new Head Interconnect board D520523-06 and a D520497-03 Rev P Head Interconnect Board are required.</p>	

Engrave Head

OGT Part Number / Description	Comments	
D103100091 – Switch, Optical	Stylus Tool Sensor, J10	
D103870xxx – Vision 3 Engrave Head Multi-Tune	Last 3 digits determine engrave head type and tunes	No picture available
D1575-0017 – Vacuum Hose Fitting, 1.25 inch	Connects hose D817400110 to the engrave head vacuum port. Replaces D1250-0025	
D1850-0147 – Hex Key Wrench, 0.050 inch		
D2465-0022 – Vista Camera, Firewire	Firewire connection	
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 Torq Driver	
D370215-02 – Torque Driver, Preset, 20 cNm	Used for stylus clamping screws. Use with Torx bit	

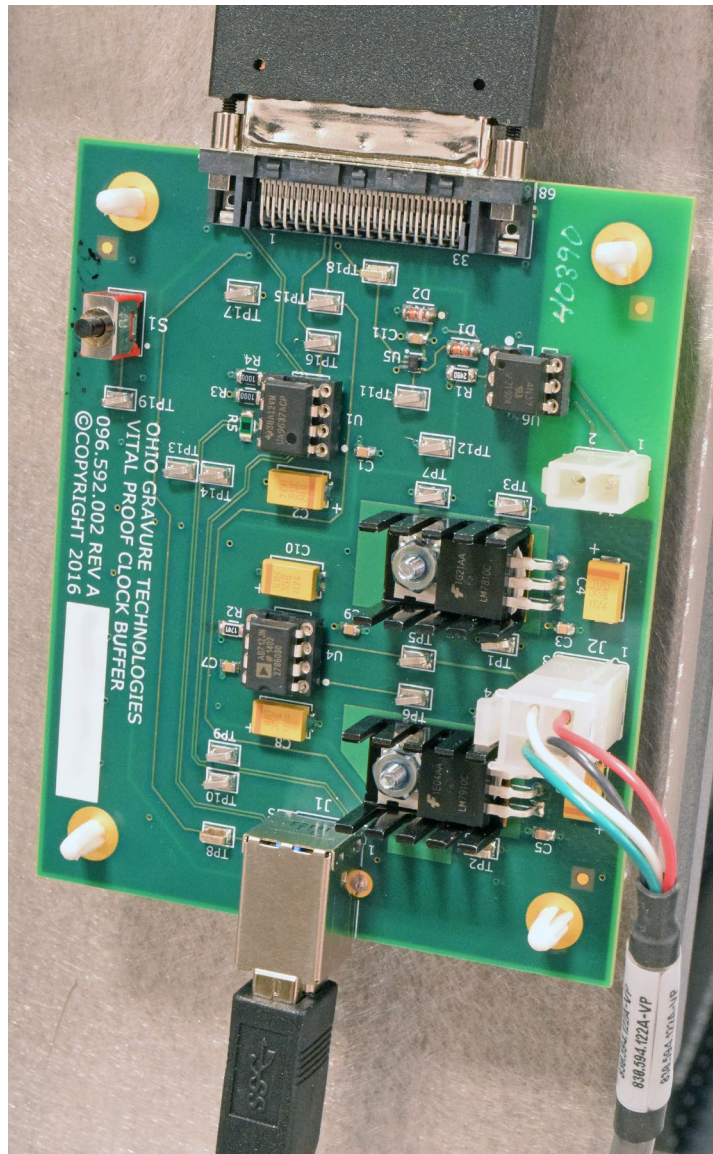
OGT Part Number / Description	Comments	
D520091-04 – Switch, Proximity	Focus Prox, J8	
D520092-01 – Switch, Proximity	Shoe Out Prox, J9	
D520093-01 – Switch, Proximity	Burr Cutter Prox, J6	
D520252-01 – Switch, Proximity	Shoe In Prox, J7	
D520277-14 – Head Feedback Position Sensor Assembly	Includes probe and electronics box	
D520523-04 – Head Interface Board	Mounted on back of engrave head For Firewire camera	

OGT Part Number / Description	Comments	
D520523-05 – Head Interface Board	Mounted on back of engrave head For Ethernet camera	
D520523-06 – Head Interface Board	Mounted on back of engrave head For Ethernet camera Latest generation of Head Interface Board uses a new conector. For machines 1092 and later. If used as a replacement for 520523-05, a new cable D830594148 is required.	
D560458-01 – Power Cable, Camera	For FireWire Vista camera. 23	
D803101011 – Shoe Motor Assembly		
D803101012 – Burr Cutter Motor Assembly		

OGT Part Number / Description	Comments	
D803101013 – Focus Motor Assembly	Focus Motor for Vista System	
D803751013 – Optical Assembly	Includes camera D2465-0022	
D817400110 – Vacuum Hose	For early Spectrum machines. 127 mm in length	
D817400140 – Vacuum Hose	For Large Format machines. 200 mm in length	
D817400144 – Vacuum Elbow	Connects to the vacuum tube directly off the engrave head.	
D830100051 – Vacuum Hose	For Spectrum Auto machines. 114 mm in length	
D830594123 – Power Cable, Camera	For Ethernet Vista camera.	

Parts Photographs

D096592002 – Vital-Proof Clock Buffer Board

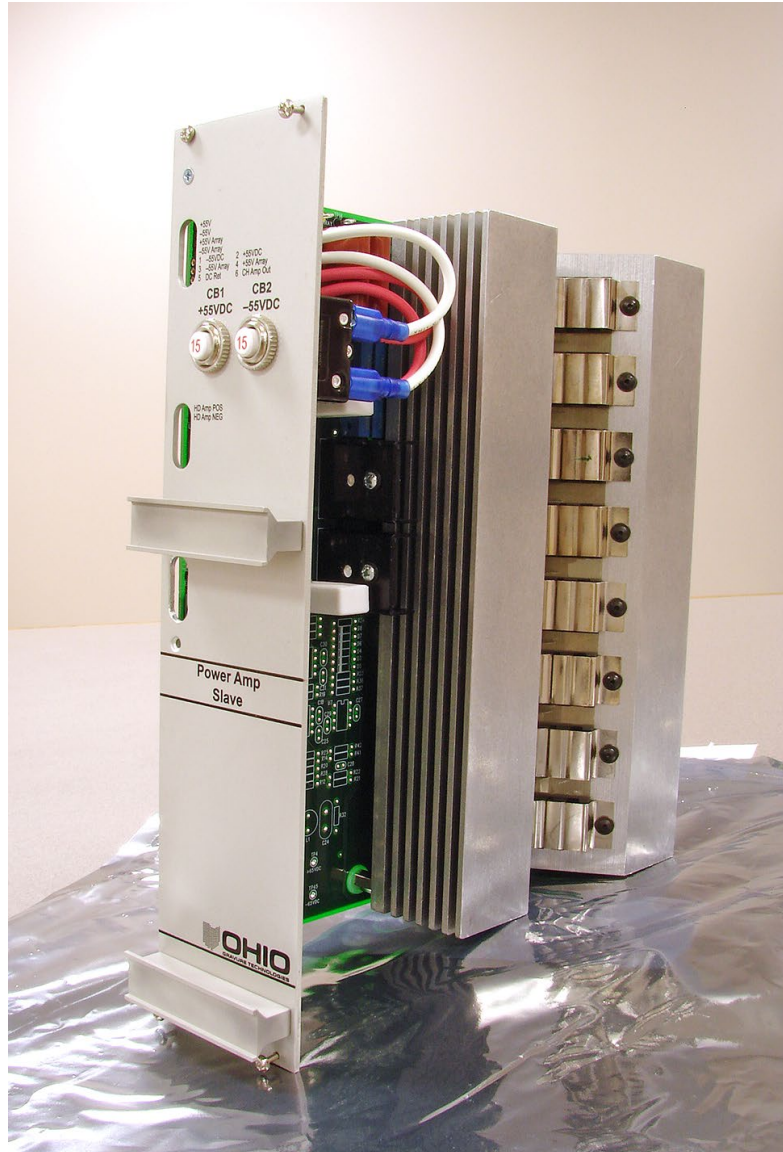


Shown on the machine

D100592025 – Master Head Amplifier



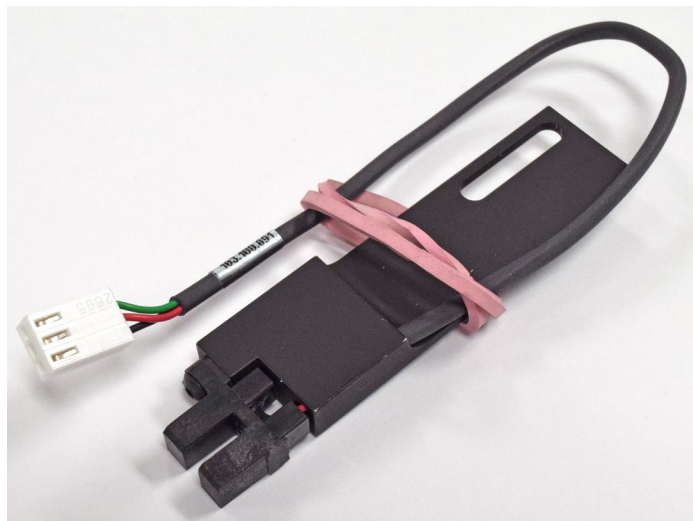
D100592026 – Slave Head Amplifier



D101592013 – Embedded Computer and Software



D103100091 – Stylus Tool Sensor



D1120-0052 – Belt, Poly V, 16 Rib, 1473 mm (58 inch), Main Drive Belt (Early Spectrums)



D1120-0055 – Belt, Poly V, 6 Rib, 1562 mm (61.5 inch), Main Drive Belt (Second Generation Spectrums)



D1120-0057 – Belt, Flat, 1540 mm (60.63 inch), Main Drive Belt (Third Generation/Current Spectrums)



D1120-0058 – Belt, Flat, 2125 mm (83.66 inch), Main Drive Belt for LF (Large Format) Spectrums



D1120-0060 – Timing Belt, 6 mm width, Motorized Enclosures, Varying lengths based on machine type



For 9.5 mm width, see D1120-0063

D1120-0061 - Belt, Flat, 1520 mm (59.84 inch), Main Drive Belt (Current Spectrums with flywheel pulley)



D1120-0065 – Timing Belt, 9.5 mm width, Motorized Enclosures, Varying lengths based on machine type

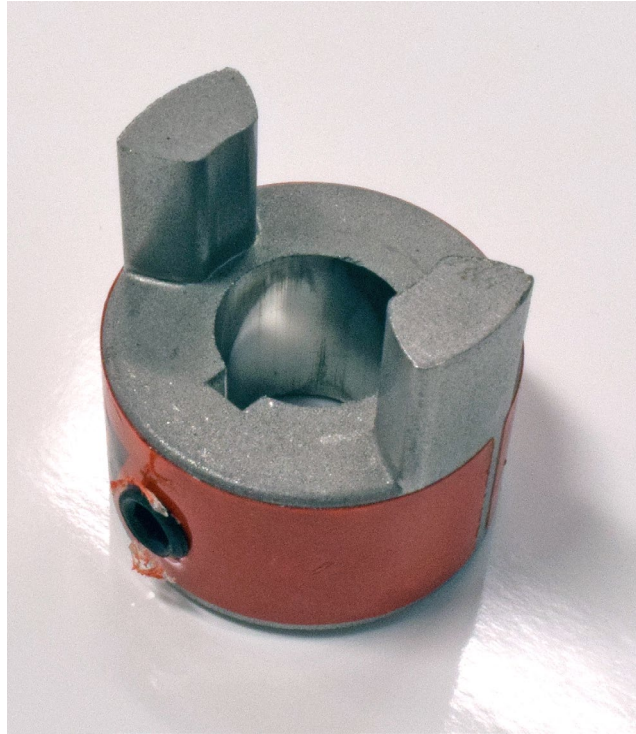


For 6.0 mm width, see D1120-0060

D1325-0144 – Coupling, Spider, Flexible



D1325-0145 – Coupling, Hub, Flexible



D1325-0146 – Torque Limiter



Torque Limiter is used with [D1525-0064](#) to create a slip clutch for headstock and tailstock leadscrew for Spectrums with chain drive. Assembled unit is [shown here](#).

D1325-0146 and D1525-0064 – Assembled Torque Limiter



There are two setscrews per hole on the locking nut. The first setscrew contacts the inner thread. The second setscrew installed on top of the first is used as a locking setscrew.



D1475-0027 – Vacuum Bag



D1525-0064 – Sprocket, 22-teeth



Sprocket is used with [D1325-0146](#) to create a slip clutch for headstock and tailstock leadscrew for Spectrums with chain drive. Assembled unit is [shown here](#).

D1575-0017 – Vacuum Hose Fitting



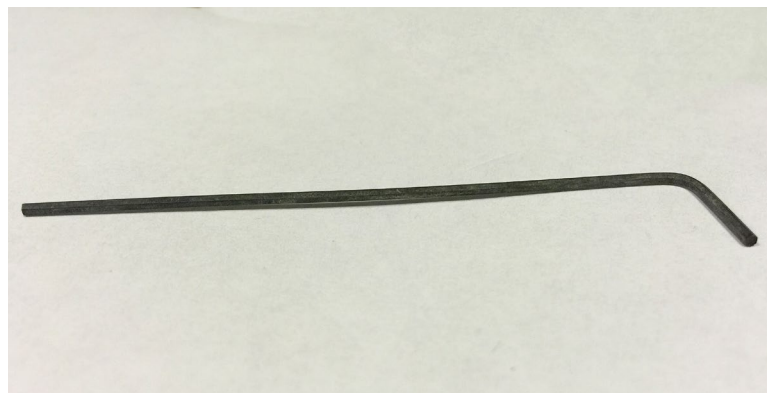
D1645-0024 – Grease



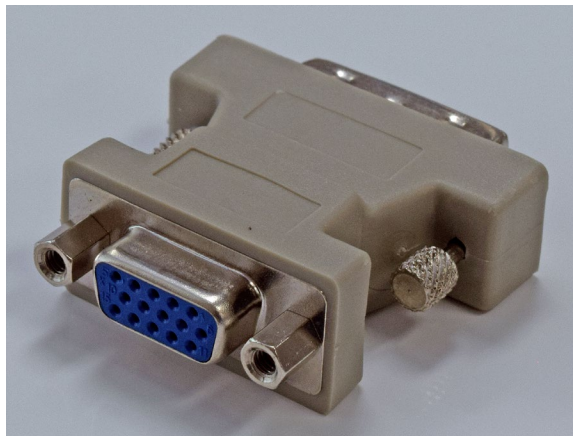
D1820-0001 – Spindle Screw, Jaw Adjustment, 3-jaw Chucks



D1850-0147 – HexKey Wrench, 0.050 inch



D2090-0448 – Adapter, DVI to VGA



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



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



D2090-0466 – Cable, CAT5 Ethernet, Black, 6 feet, J155



D2090-0467 – Cable, CAT5, Ethernet, Green, 5 feet, J154



D2090-0470 – Cable, USB 3.0, A/M to B/M, 1 meter



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



D2090-0479 – Cable, CAT5, Ethernet – for ethernet version of Vista camera



D2090-0482 – Cable, Ethernet, CAT5, Blue, 7 feet



D2090-0484 – Cable, VGA Splitter



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



D2090-0493 – Cable, Ethernet, CAT5, Red, 7 feet, J153



D2090-0498 – Cable, Ethernet, CAT5, Extender, Female to Male, 0.5 meter

No picture available

D2090-0502 – Cable, USB, A Male to B Male, 3 meter



D2143-0964 – Pointing Device, Touchpad



D2143-0968 – Repeater, USB Extension, USB to CAT5



D2143-0973 – FireWire, 0.5 Meter



D2143-0974 – FireWire Cable, 10 Meters



D2143-0981 – Vital-Proof PC



D2143-0983 – Switch, Ethernet, 5-port, Gigabit



D2143-1001 – Switch, KVM, Remote



Used with D2143-1003

D2143-1003 – Switch, 4-port, KVM

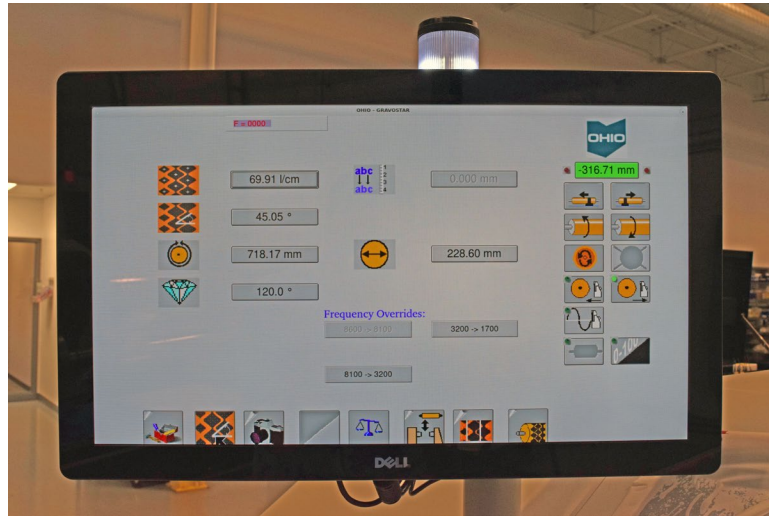


Used with D2143-1001

D2190-1005 – Hub, USB, 2-port

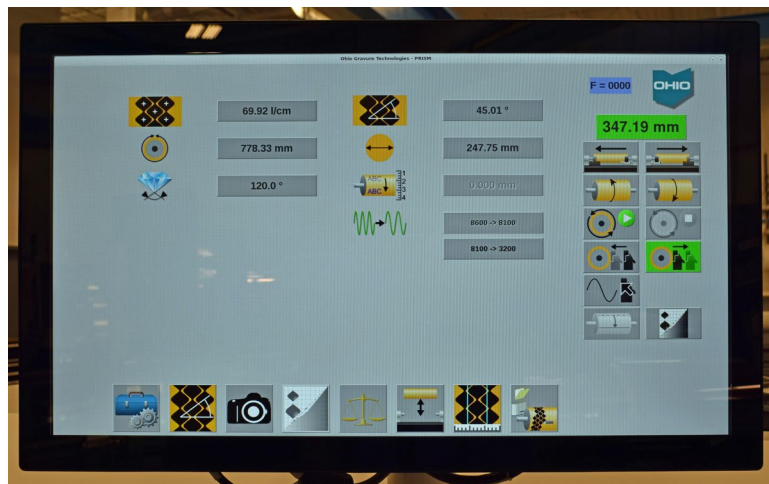


D2190-0038 – Touchscreen Display



Obsolete – Replaced by D2190-0044

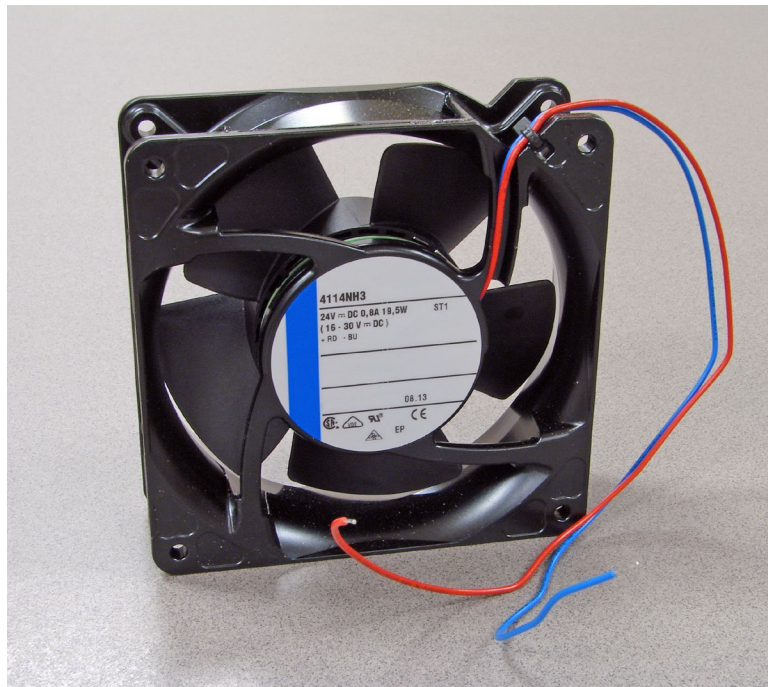
D2190-0044 – Touchscreen Display, 22 inch



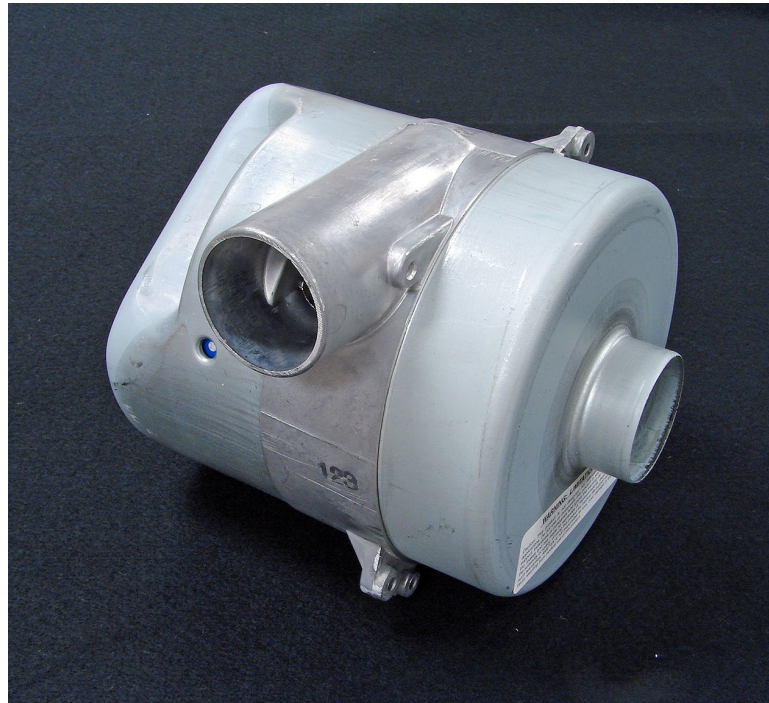
D2215-0003 – Fan, 240 VAC



D2215-0041 – Fan, 24 VDC



D2365-0034 – Blower, Vacuum Motor



D2365-0127 – Motor, Main Cylinder Drive



D2420-0089 – Light Bundle, Fiber Optic, Vista



D2465-0022 – Camera, Vista, FireWire



D2465-0023 – Camera, Vista, Ethernet



Shown with cap over lens

D2500-0119 – Uninterruptible Power Supply



D2545-0072 – Sensor, Photoelectric, Doors Closed



D2545-0080 – Dial Indicator, Electronic



D2545-0083 – Data Interface Box – for Cylinder Diameter Measurement



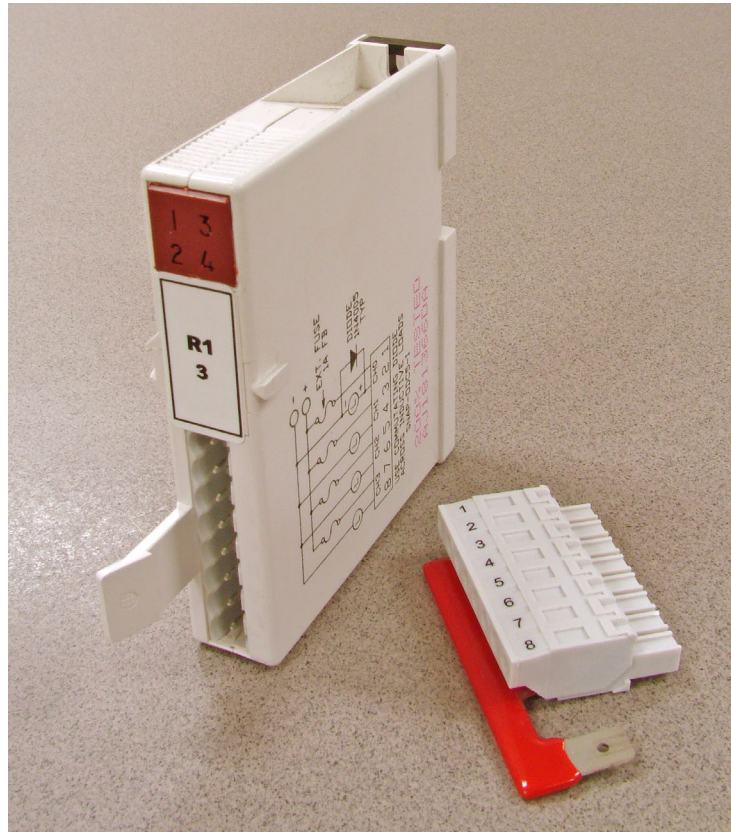
D2580-0050 – Contactor



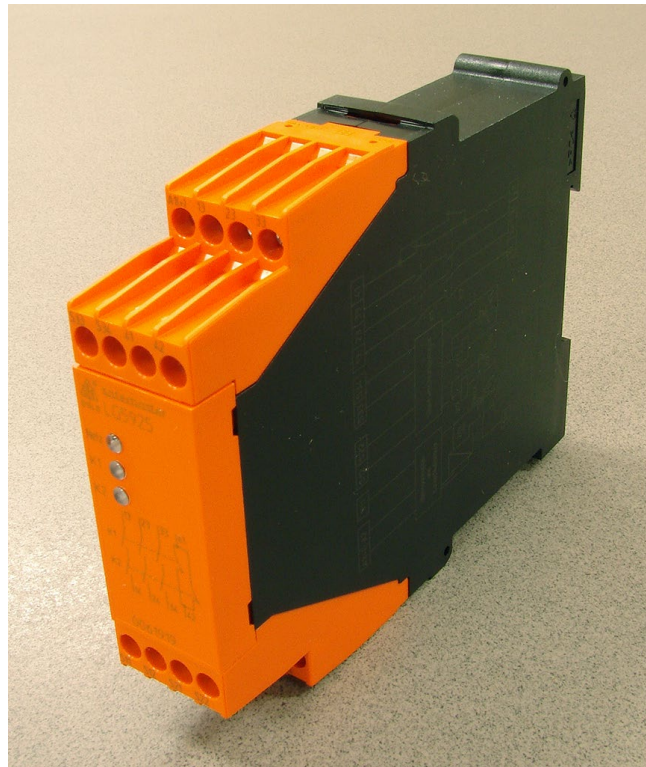
D2580-0064 – Opto-Isolator Module, 4 Channel, Output



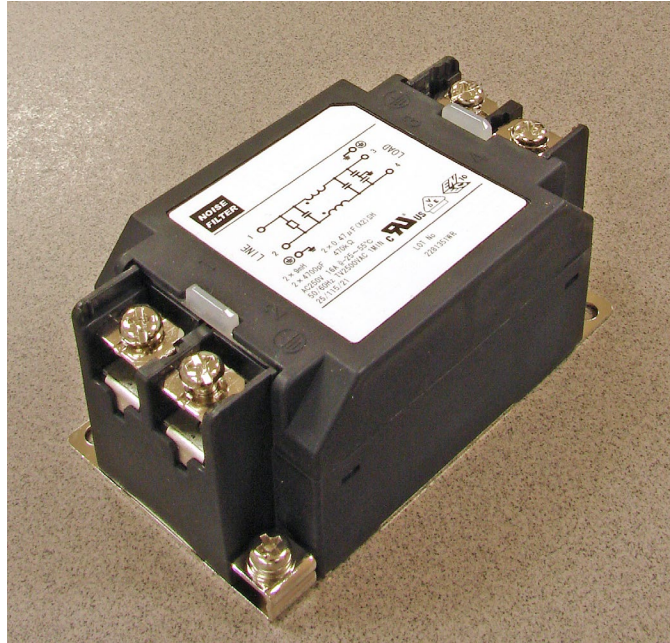
D2580-0067 – Opto-Isolator Module, 4 Channel, Input



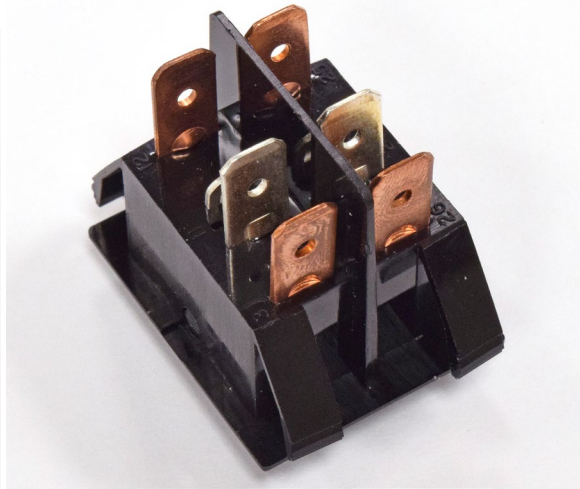
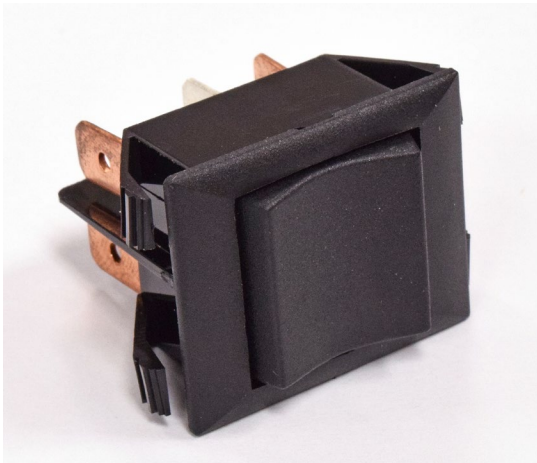
D2580-0076 – Relay, Safety, AC/DC 24V 50/60 Hz



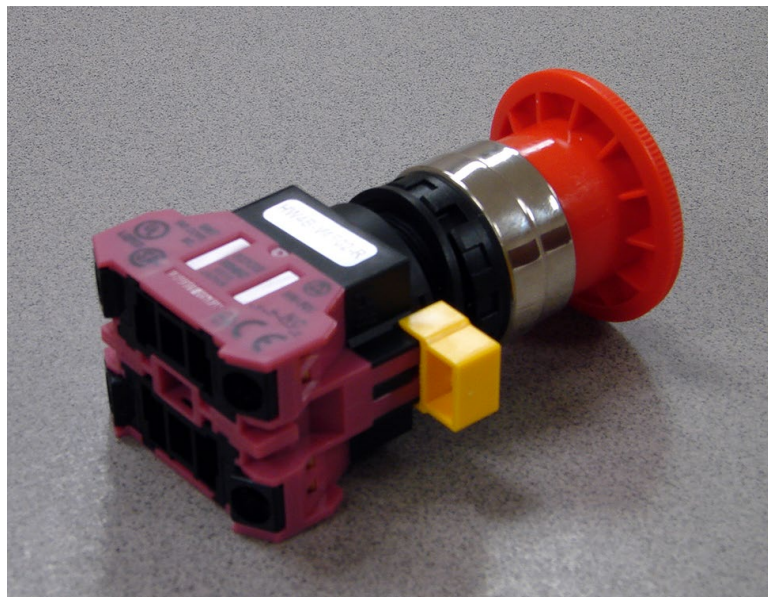
D2725-0010 – Line Filter, Ultra High Attenuation, AC Power



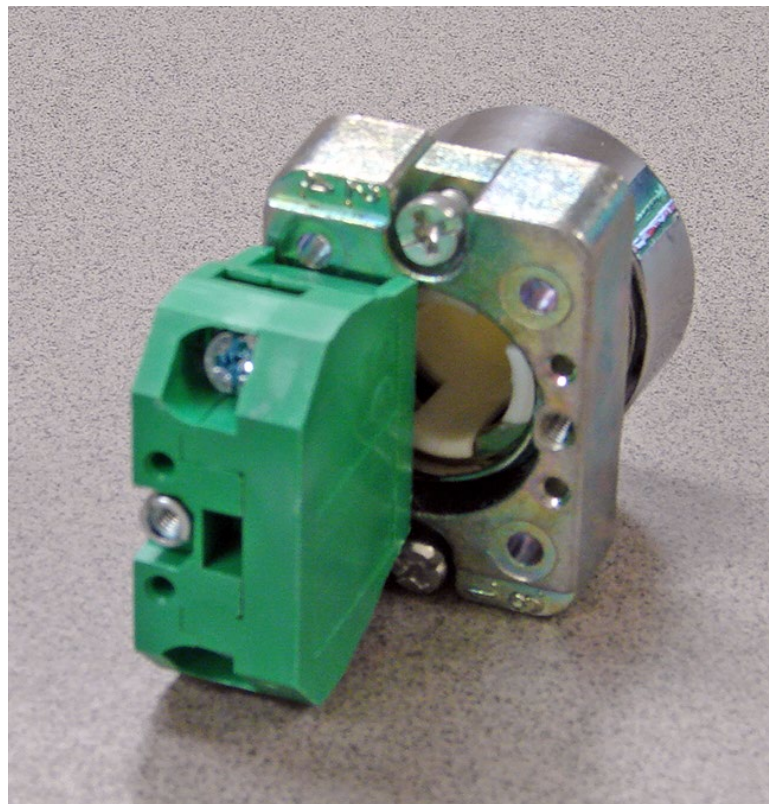
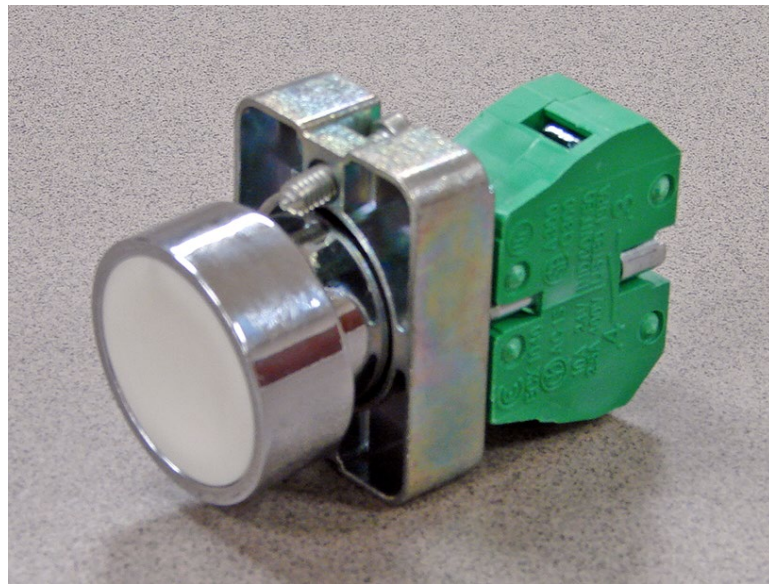
D2735-0140 – Switch, Rocker Action, Power Switch (Early Spectrums)



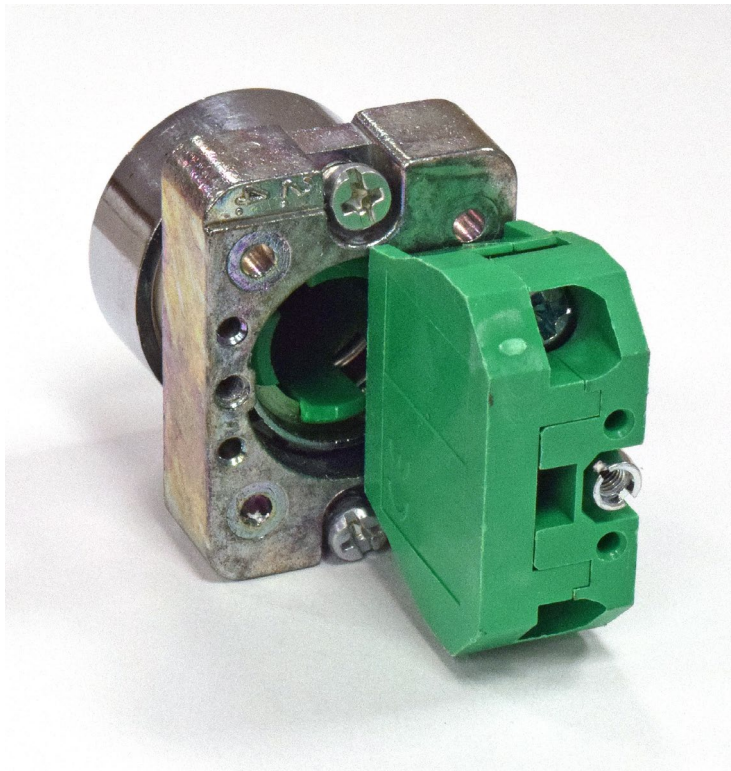
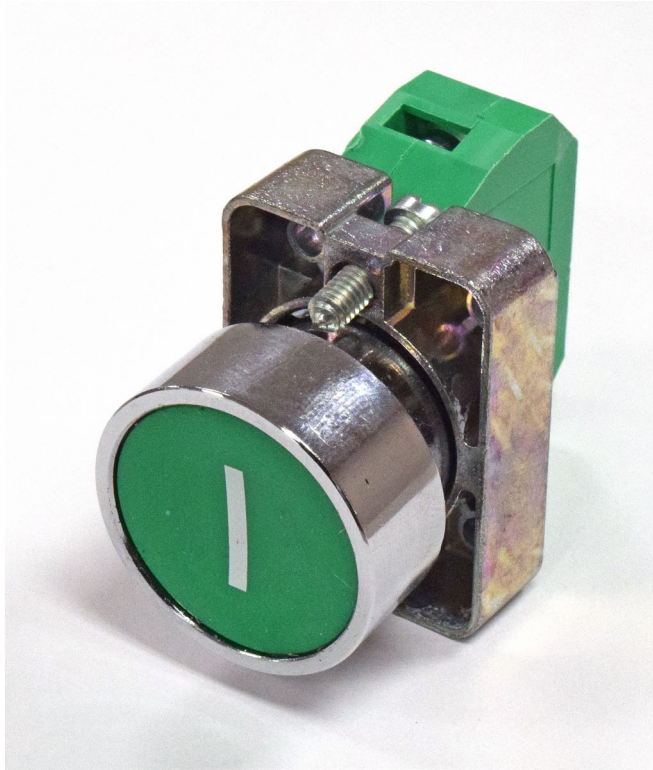
D2735-0145 – Switch, Pushbutton Locking, Mushroom Head



D2735-0187 – Switch, Pushbutton, White Face (Rear control panel buttons on early generation)



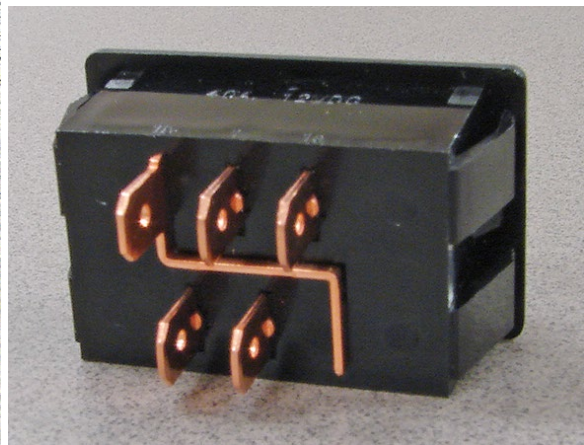
D2735-0188 – Switch, Momentary Action, Pushbutton, Green Face



D2735-0190 – Switch, Magnetic, Doors Closed (Early Spectrums)



D2735-0193 – Switch, Rocker Action, Carriage Direction



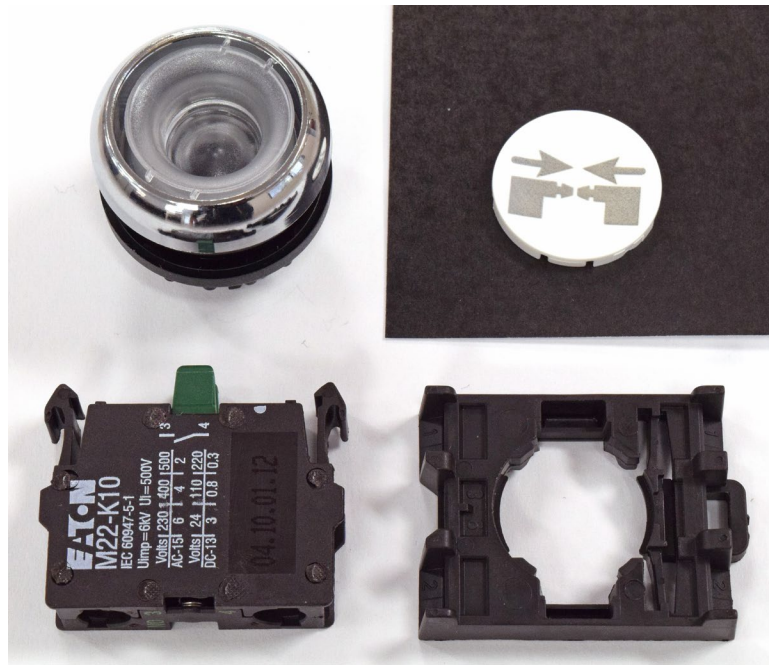
D2735-0196 – Switch, Pushbutton, Stocks Open



D2735-0197 – Switch, Pushbutton, Cylinder Clean



D2735-0198 – Switch, Pushbutton, Stocks Close



D2735-0199 – Switch, Pushbutton, Unlock Stocks



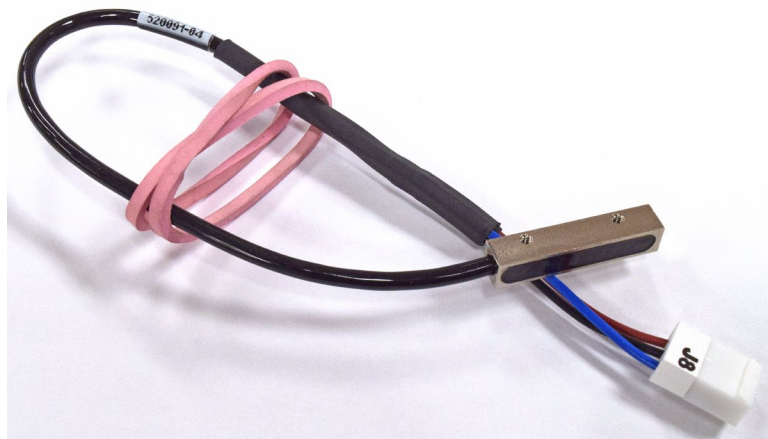
D370201-01 – Torx Bit, T7



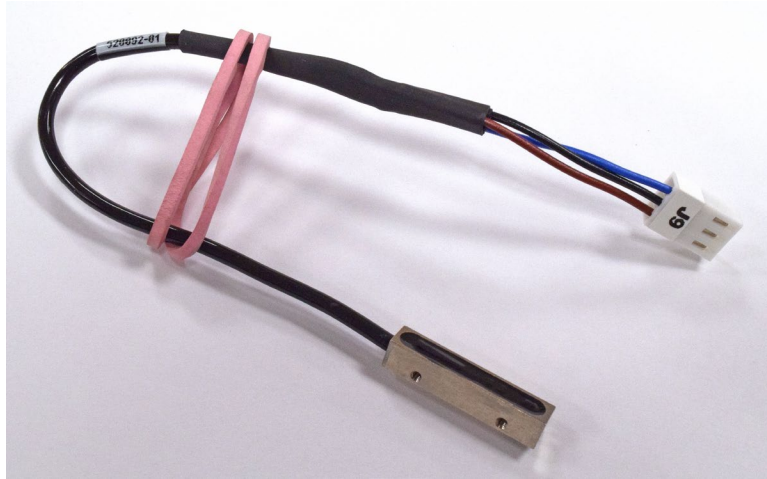
D370215-02 – Torque Driver, 20 cNm



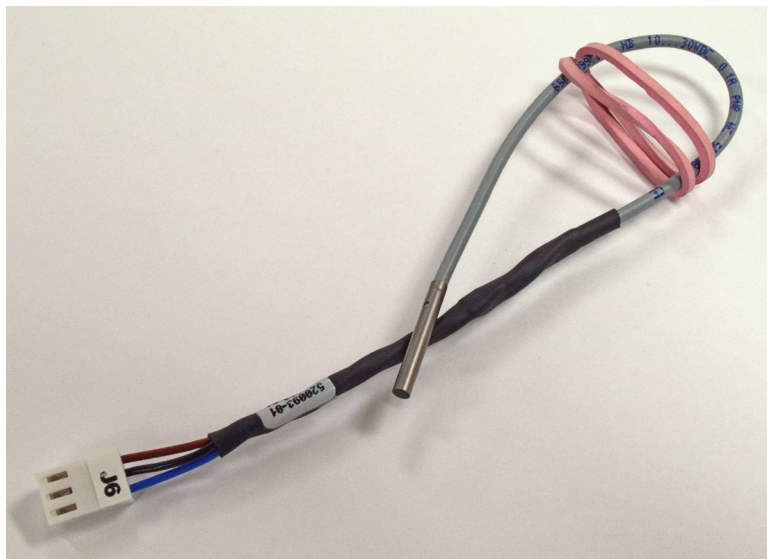
D520091-04 – Focus Prox



D520092-01 – Shoe Out Prox



D520093-01 – Burr Cutter Prox

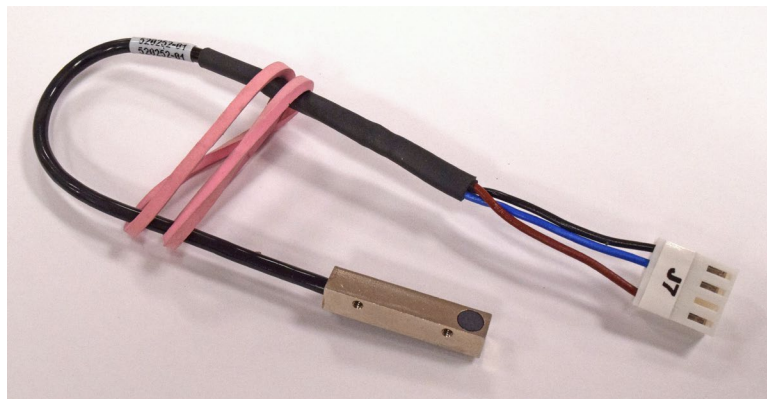


D520201-16 – Embedded Computer and Software

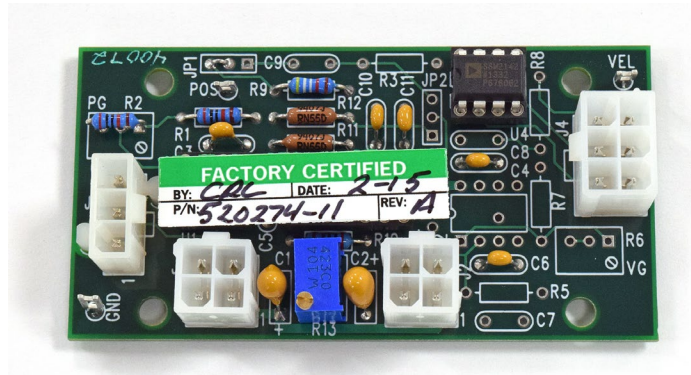


Includes keyboard, mouse, Uninterruptible Power Supply, and Embedded and Fedora SW DVDs

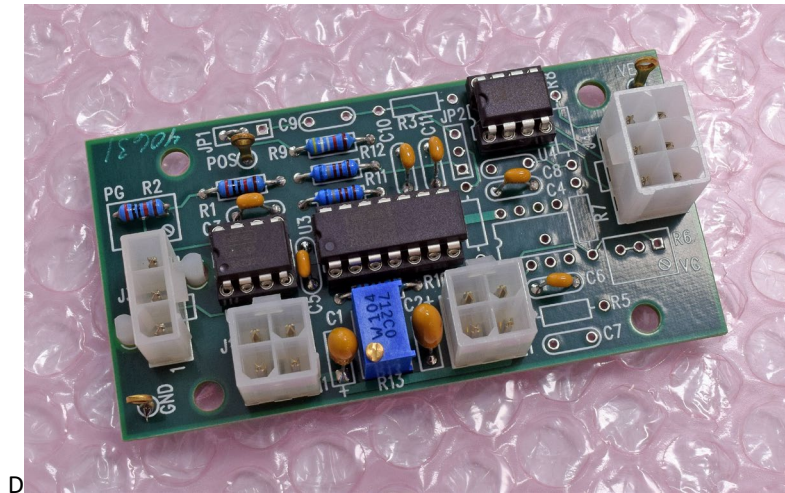
D520252-01 – Shoe In Prox



D520274-11 – Tip Cal Interface PCB



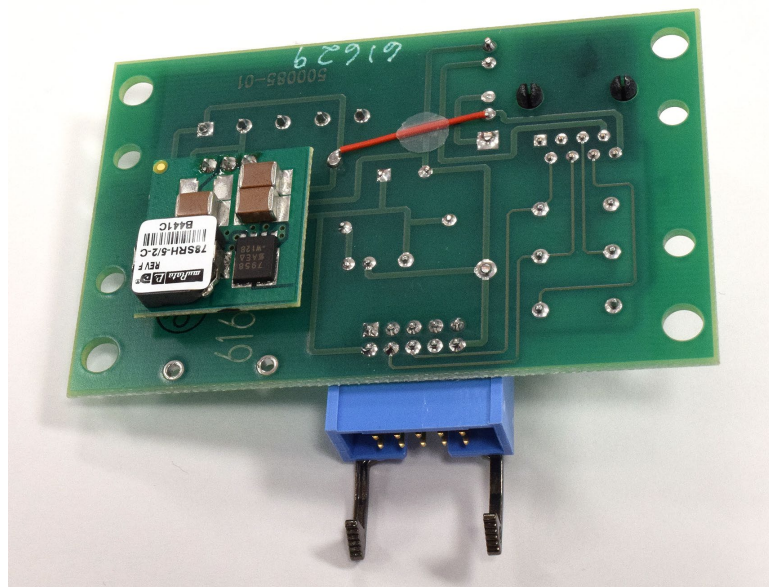
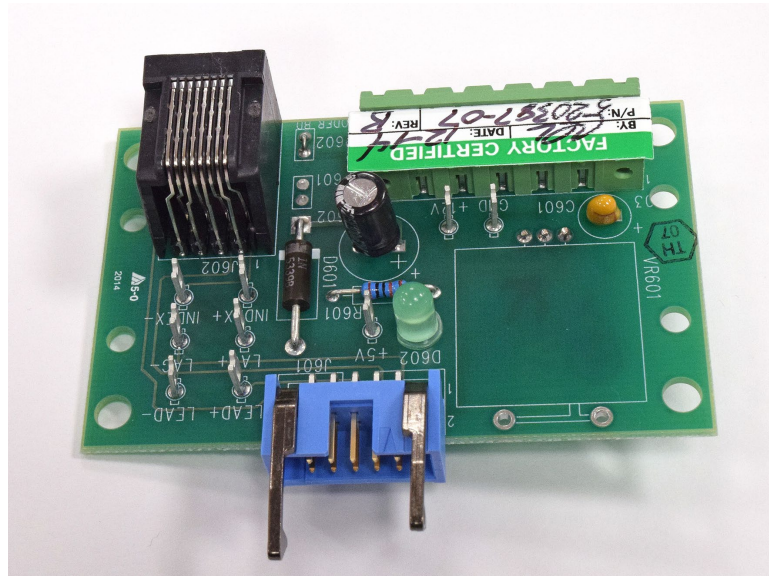
D520274-12 – Vital Proof, Kaman Vista PCB



D520277-14 – Head Feedback Position Sensor Assembly



D520387-07 – Encoder PCB



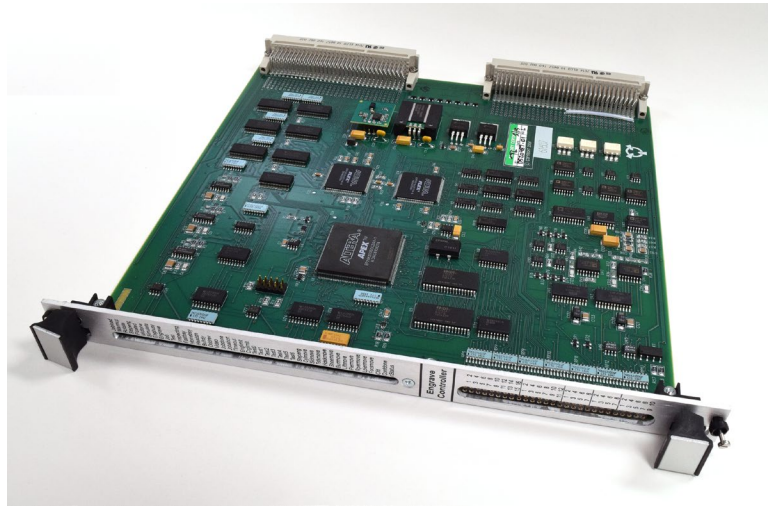
D520482-02 – High Voltage Power Supply



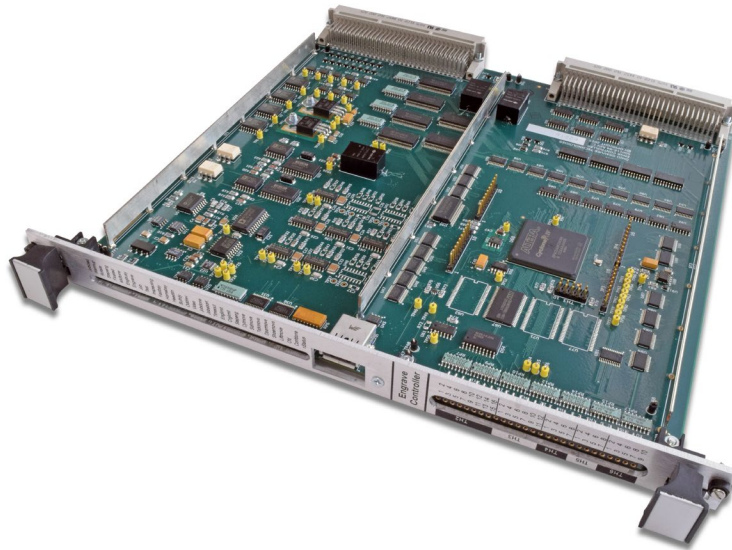
D520483-02 – Low Voltage Power Supply



D520487-01 – Automated Engraver Controller PCB

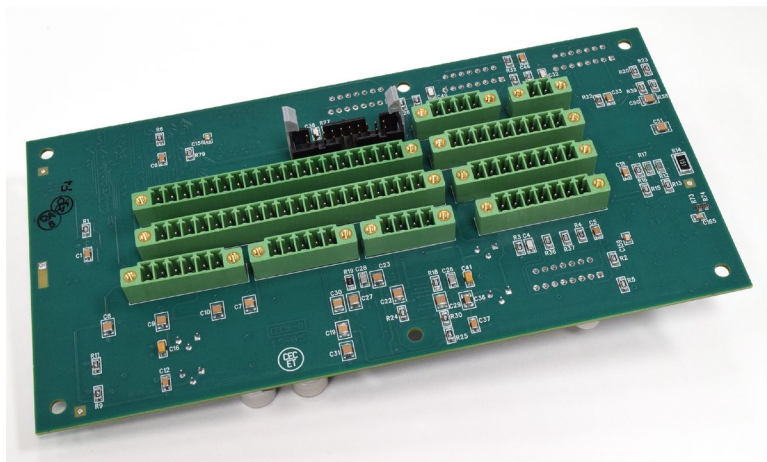
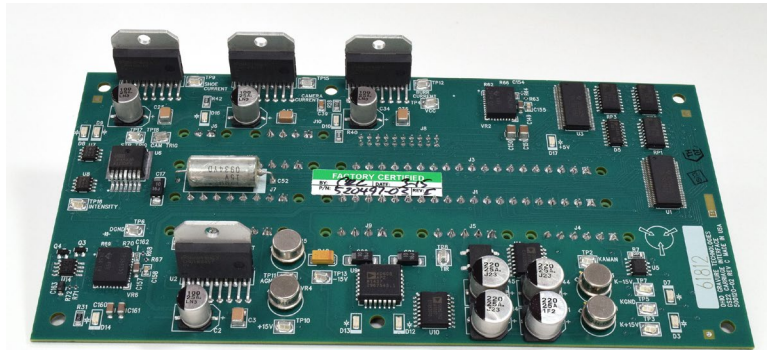


D520487-04 – Automated Engraver Controller PCB



Shown with board stiffeners

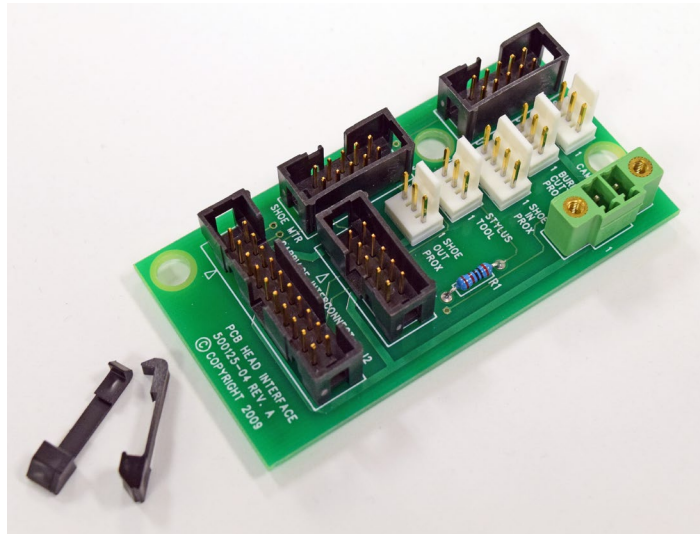
D520497-03 – Carriage Interface PCB



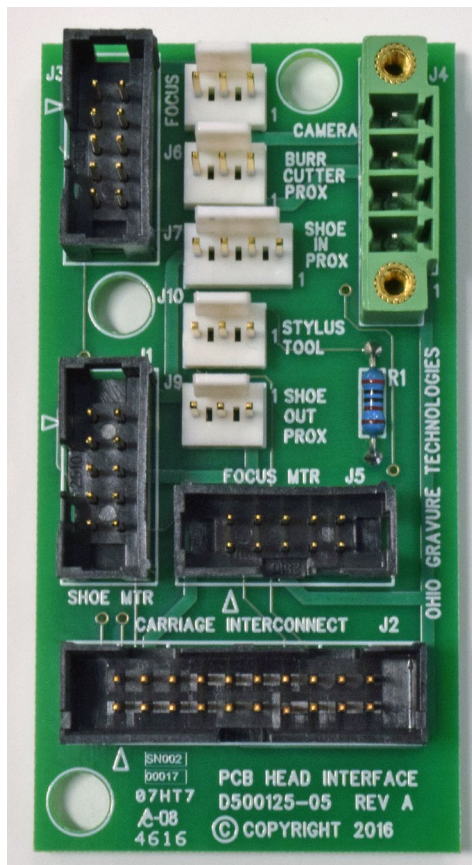
D520498-05 – Display with Touchscreen (Early Spectrums)



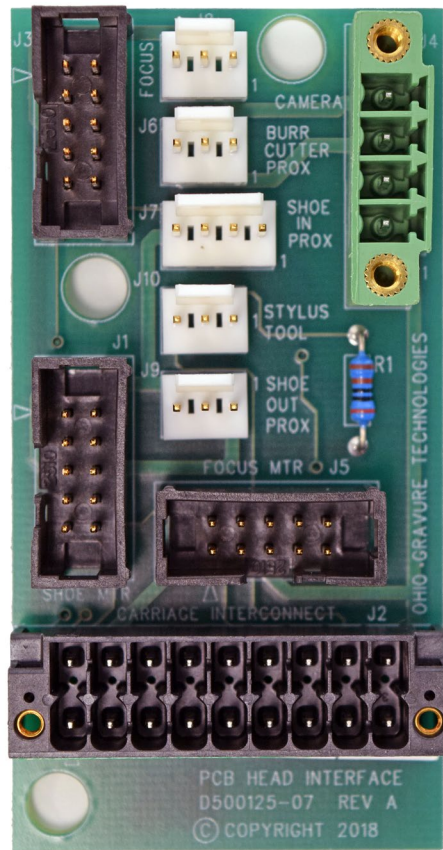
D520523-04 – Head Interface Board – for FireWire Vista camera



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

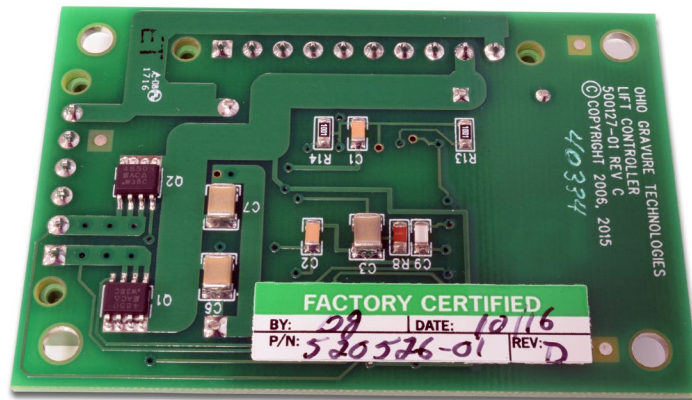
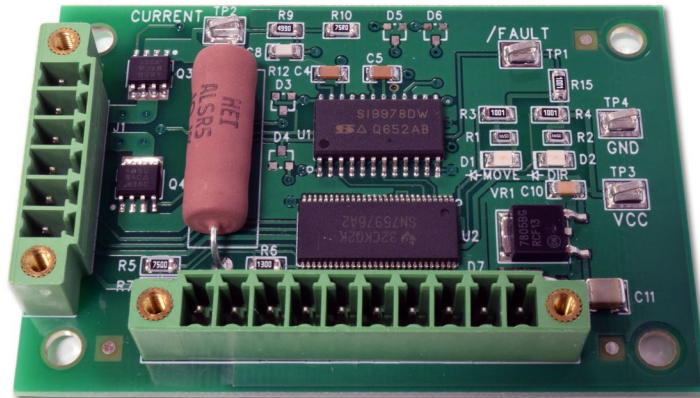


D520523-06 – Head Interface Board – for Ethernet Vista Camera

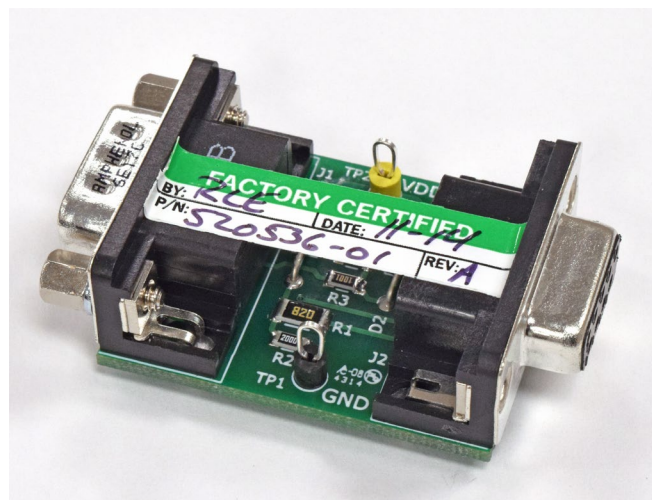


Latest generation of Head Interface board.
Requires use of cable D830594148.

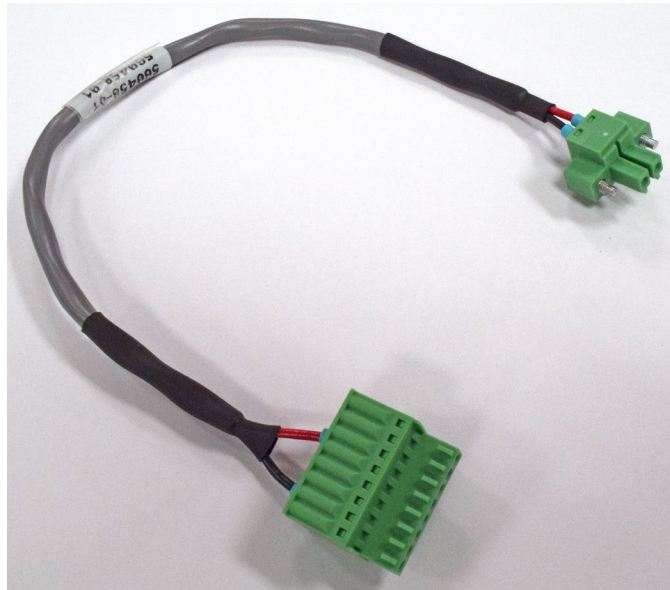
D520526-01 – DC Motor Controller PCB



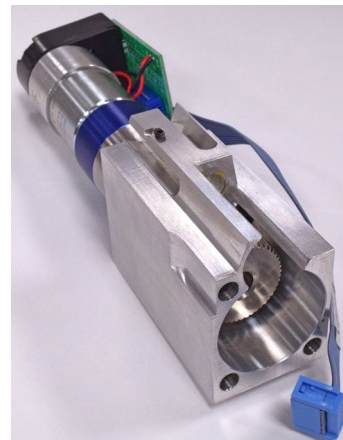
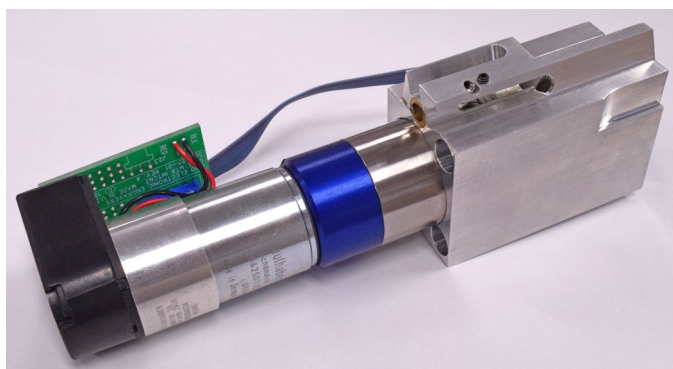
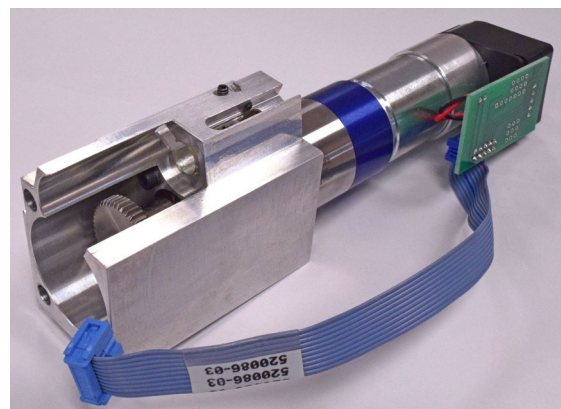
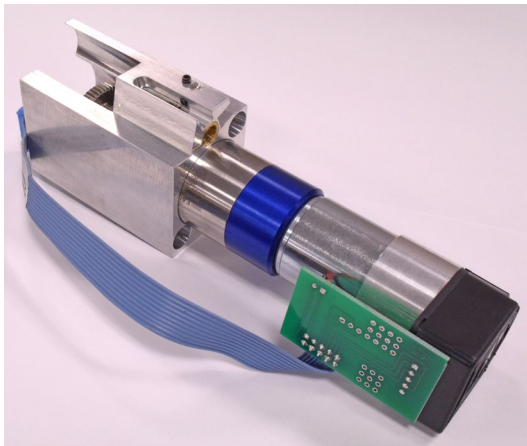
D520536-01 – Strobe Limiter PCB



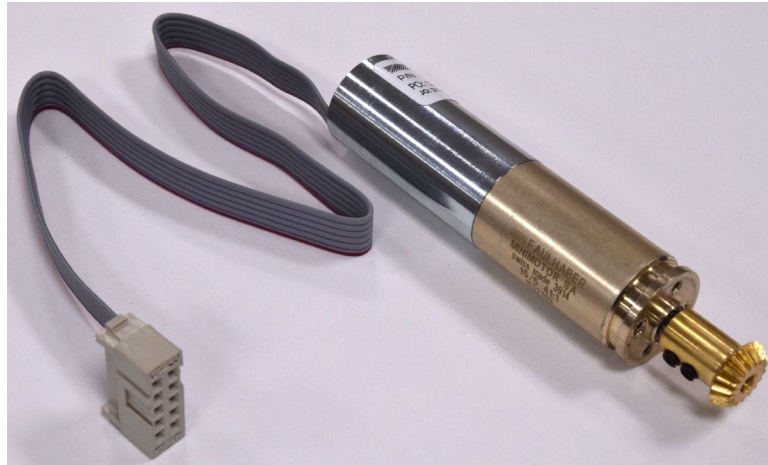
D560458-01 – Power Cable for Camera



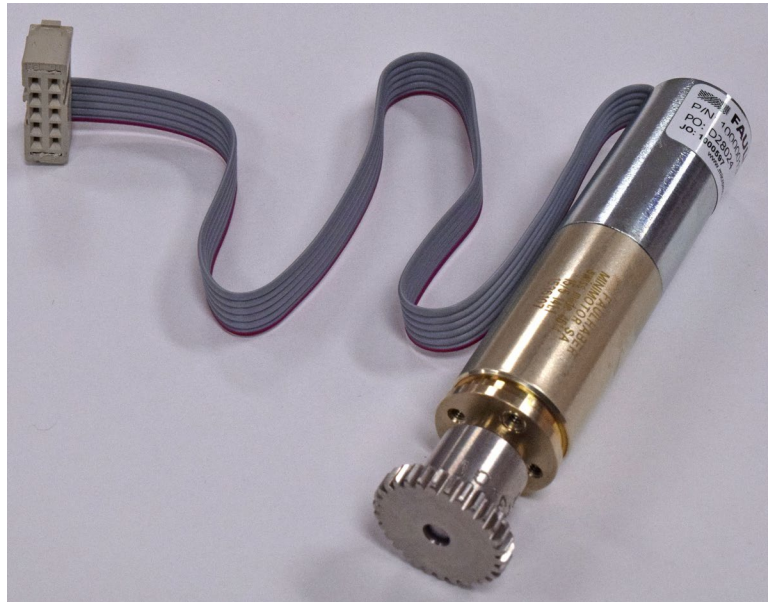
D803101011 – Shoe Motor Assembly



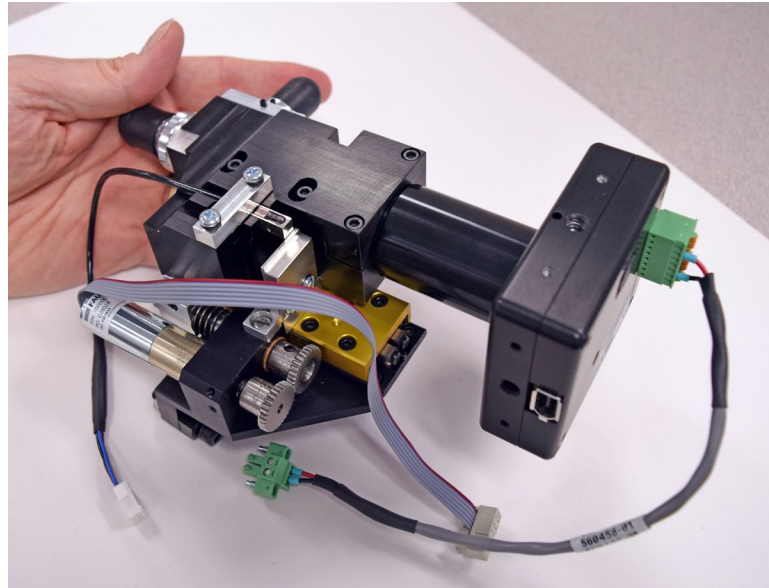
D803101012 – Burr Cutter Motor Assembly



D803101013 – Focus Motor Assembly



D803751013 – Spectrum Optical Assembly



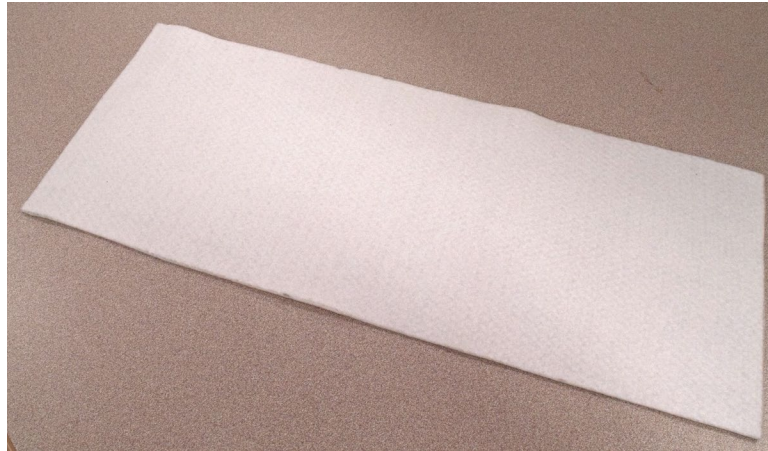
Showing Firewire camera

D803900042 – Engrave Head Air Filters



Showing one set

D817000072 – Enclosure Air Filter



D817320014 – Slip Clutch, Tailstock Leadscrew



D81740090 – Travel Stop



D817400103 – Expandable Vacuum Hose



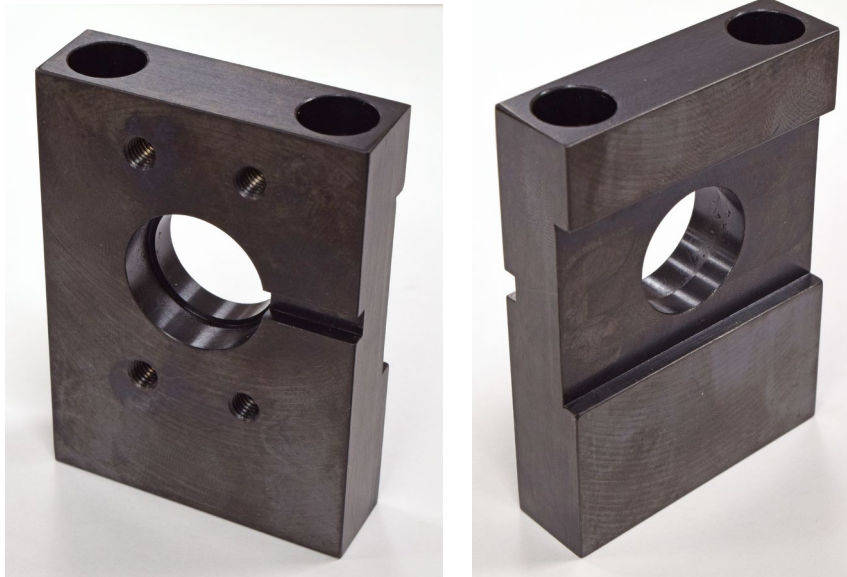
Runs across the carriage and is 127 mm in length.

D817400110 – Vacuum Hose – For early Spectrum machines

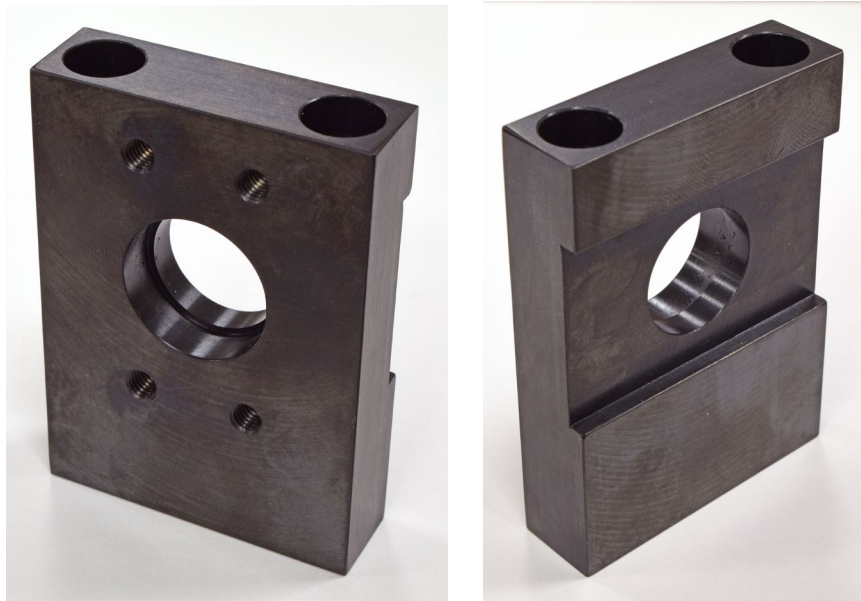


Mounts directly behind engrave head and is 127 mm in length.

D817400127 – Sub-Carriage Leadscrew Bearing Block



D817400127 Rev A – Sub-Carriage Leadscrew Bearing Block



D817400128 – Sub-Carriage Bearing Block Plate



D817400140 – Vacuum Hose – Large Format machines



Mounts directly behind engrave head on Large Format Spectrums
and is 200 mm in length.

D817400144 – Vacuum Elbow



D817580022 – Strobe Assembly (Current production unit and replacement for previous)



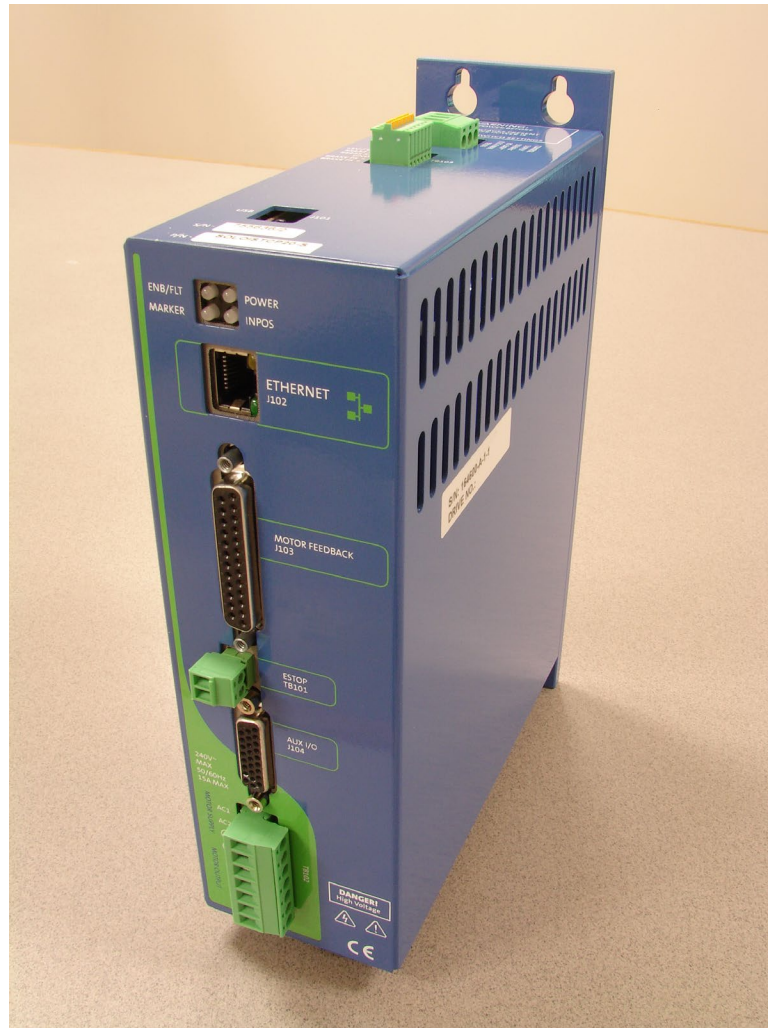
D817580023 – Motor, Head Slide



D817580032 – Motor Controller, Linear Motor, Programmed – OBSOLETE, replaced by D817580033



D817580033 – Motor Controller, Linear Motor, Programmed

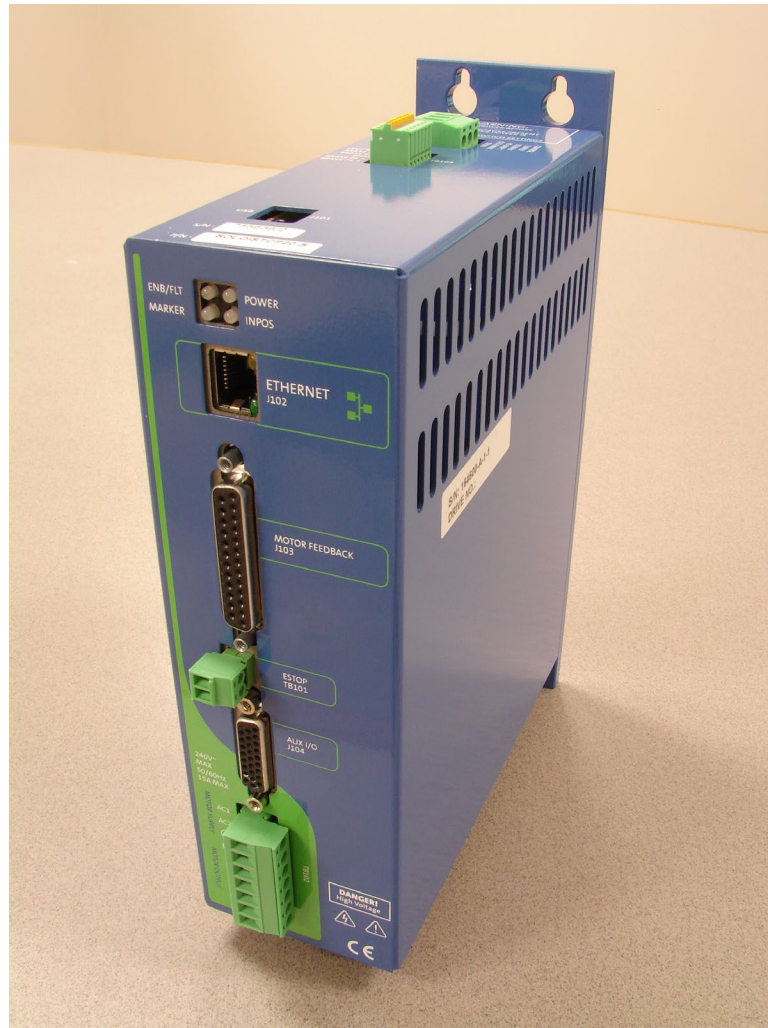


Replaces D817580032

D817594080 – FireWire Repeater

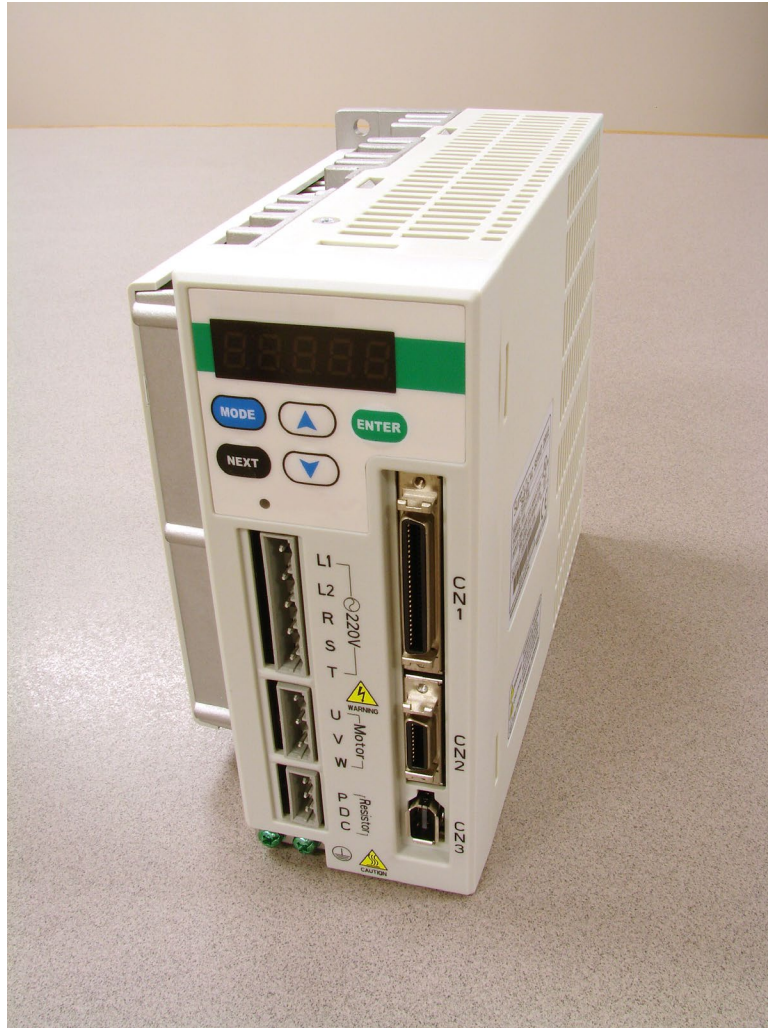


D818550001 – Motor Controller, Linear Motor, Programmed



For Compact, Packaging and Décor Spectrums

D818550002 – Motor Controller, Servo, 1KW, Programmed



For Compact, Packaging and Décor Spectrums

D818550003 – Motor Controller, AC Drive, 0.5 HP, Programmed



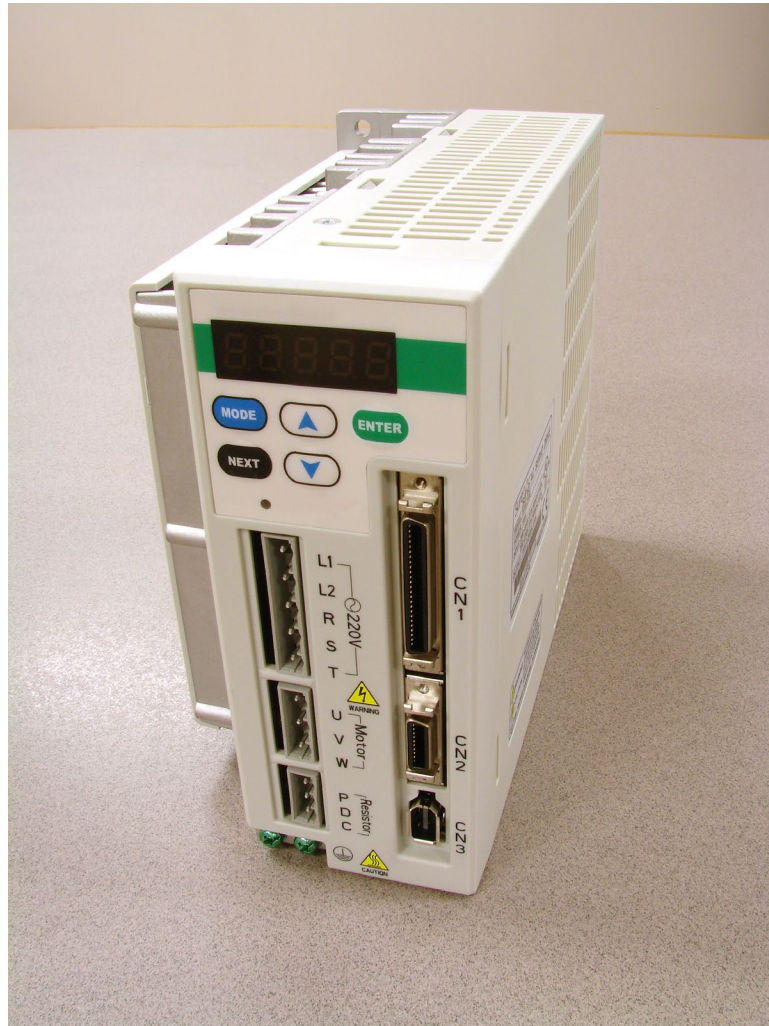
For Compact, Packaging and Décor Spectrums

D818550012 - Motor Controller, Linear Motor, Programmed



For Large Format Spectrums

D818550013 - Motor Controller, Servo, 1KW, Programmed



For Large Format Spectrums

D818550014 - Motor Controller, AC Drive, 0.5 HP, Programmed

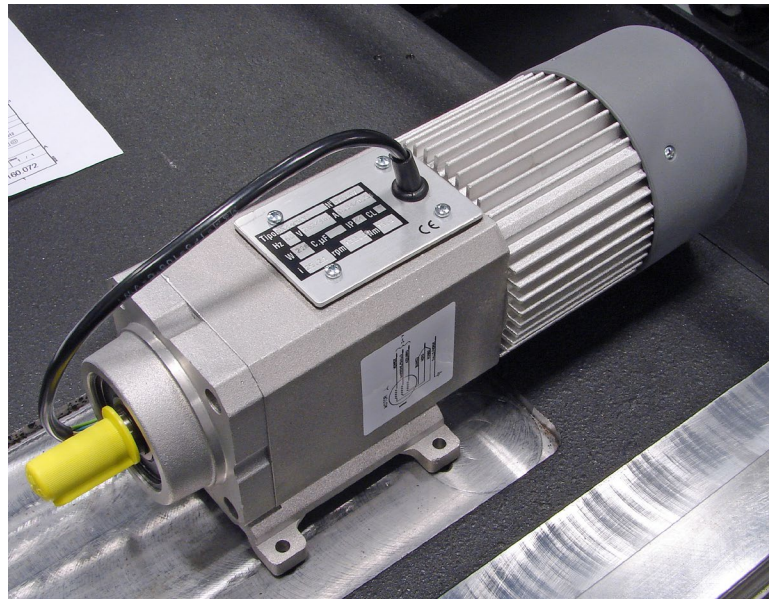


For Large Format Spectrums

D818592007 – Switch, Proximity, Tailstock Limit Prox



D818592025 – Motor, Tailstock Drive



D818594048-CT – Head Interface Cable



D821400011 – Expandable Vacuum Hose

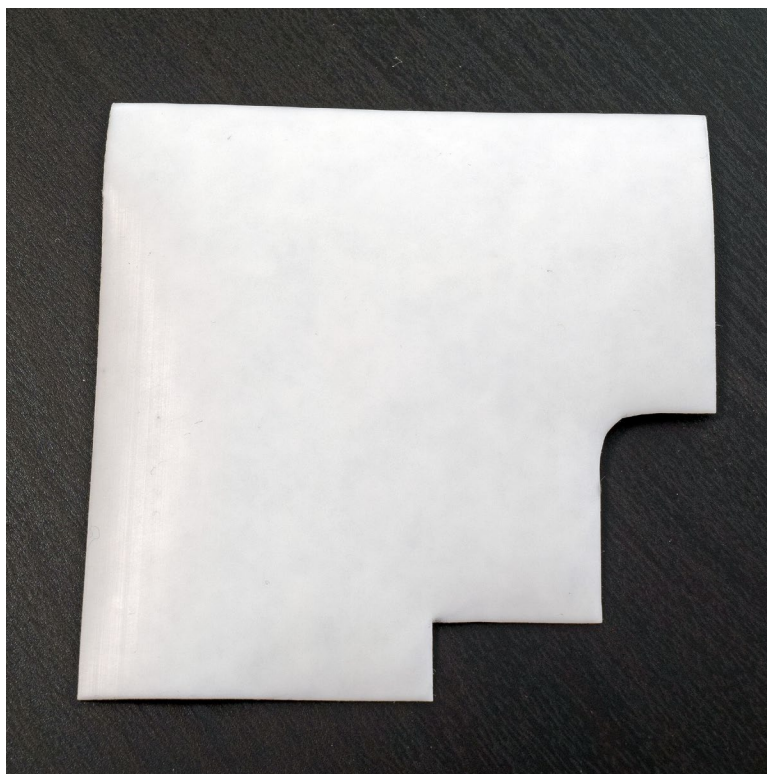


Runs across the carriage on Large Format Spectrums
and is 178 mm in length.

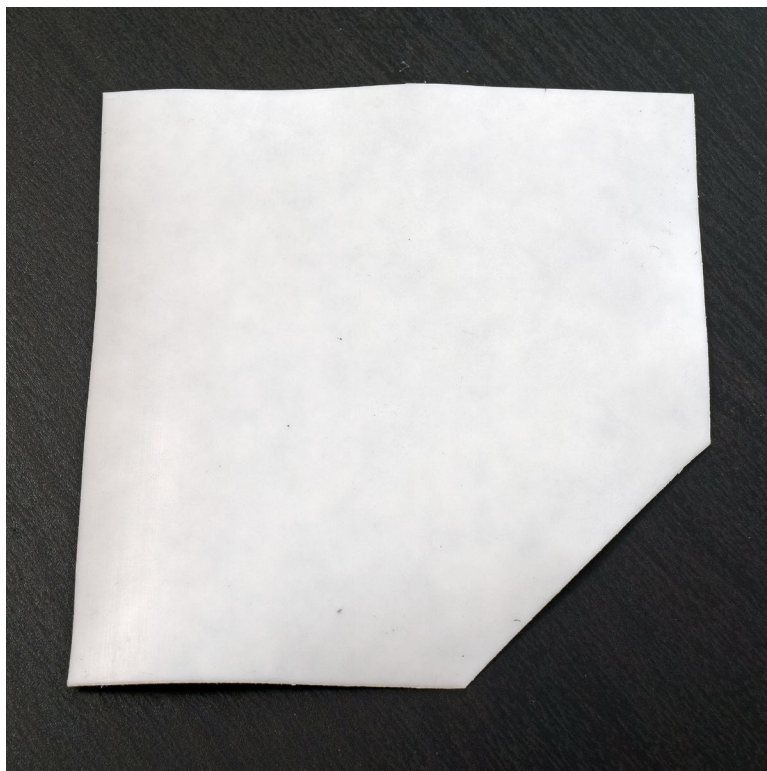
D821400022 – Rubber Travel Stop



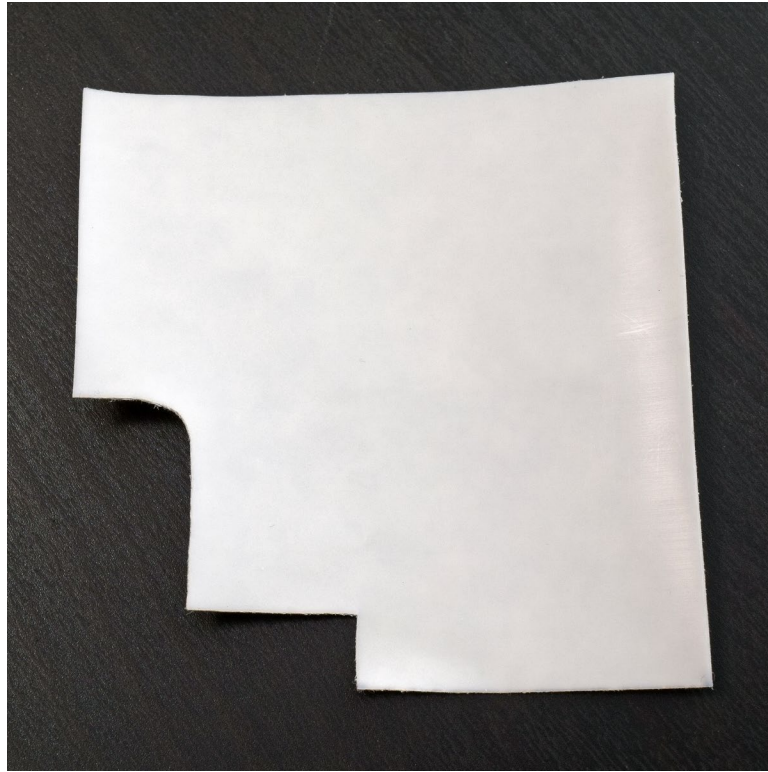
D830550061 – Teflon Tape, Right Cylinder Support Head, used with D830550067



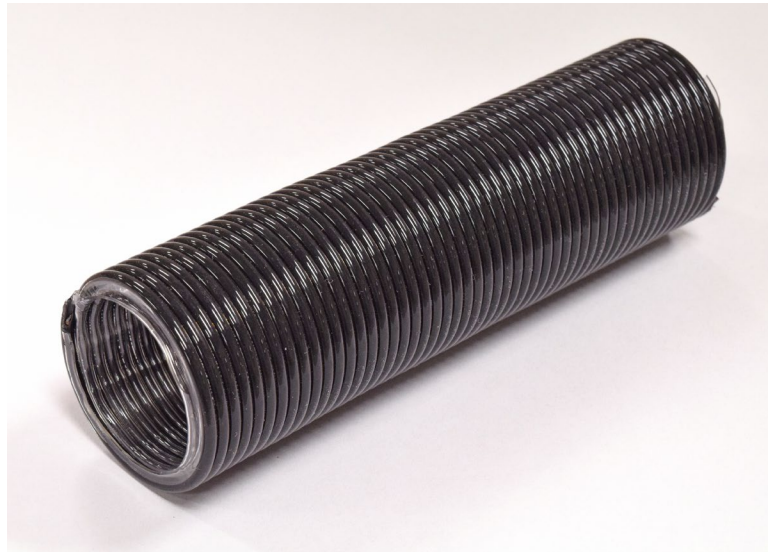
D830550062 – Teflon Tape, Left Cylinder Support Head, 2 pieces needed



D830550067 – Teflon Tape, Right Cylinder Support Head, used with D830550061



D830100050 – Expandable Vacuum Hose



Runs across the carriage and is 178 mm in length.
For all Spectrum Auto machines.

D830100051 – Vacuum Hose



Mounts directly behind engrave head and is 114 mm in length.

For all Spectrum Auto machines.

D8XX592003 – Switch, Proximity, Head Down Sensor

XX changes based on machine type as follows:

18 is for Packaging Spectrum

19 is for Décor Spectrum

21 is for Large Format Spectrum

Used on machines without flexible cable carrier on the carriage.



D8XX592003-CT – Switch, Proximity, Head Down Sensor

XX changes based on machine type as follows:

18 is for earlier Spectrums

19 is for Décor Spectrum

21 is for Large Format Spectrum

30 is for Spectrum Auto Packaging machines

31 is for Spectrum Auto Décor machines

33 is for Spectrum Auto Compact machines

Used on machines #1036, #1038, and later that use flexible cable carrier.



D8XX592004 – Switch, Proximity, Home Prox

XX changes based on machine type as follows:

18 is for earlier Spectrums

30 is for Spectrum Auto machines



D8XX592005 – Switch, Proximity, Left Limit Prox

XX changes based on machine type as follows:

18 is for earlier Spectrums

30 is for Spectrum Auto machines



D8XX592006 – Switch, Proximity, Right Limit Prox

XX changes based on machine type as follows:

18 is for earlier Spectrums

30 is for Spectrum Auto machines



D8XX592007 – Switch, Proximity, Tailstock Limit Prox

XX changes based on machine type as follows:

18 is for earlier Spectrums

30 is for Spectrum Auto machines



D830592013 – Sensor, Proximity – Cylinder supports, Cylinder Present



D830592015 – Motor, DC – Enclosure drive



D830592016 – Sensor, Proximity, Cylinder supports home



D8XX592017 – Rotary Encoder, Bore for shaft mounting

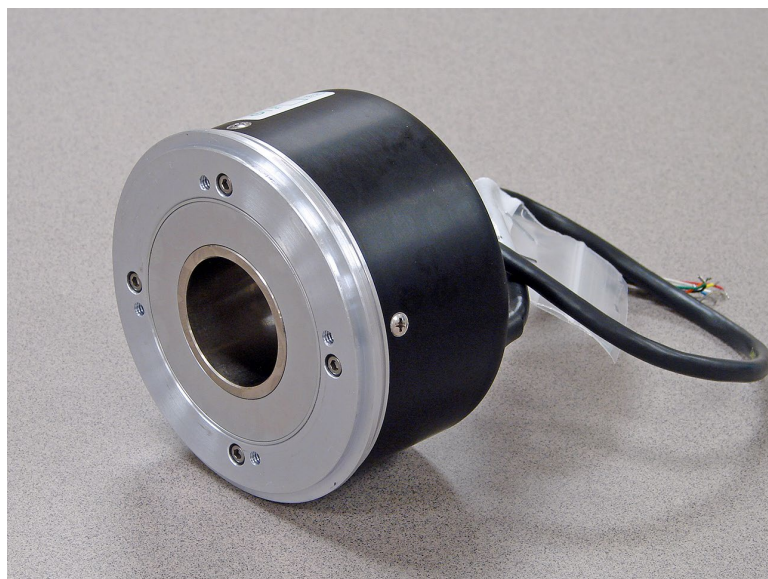
For most machines before #1039.

XX changes based on machine type as follows:

818592017 is for Packaging Spectrums

819592017 is for Décor Spectrums

821592017 is for Large Format Spectrums



D830592018 – Assembly, Sensor, Photonic, for right cylinder end-seeking



D830592019 – Assembly, Sensor, Photonic, for left cylinder end-seeking



D830592021 – Switch, Proximity – Covers Open



D830592022 – Switch, Proximity – Covers Closed



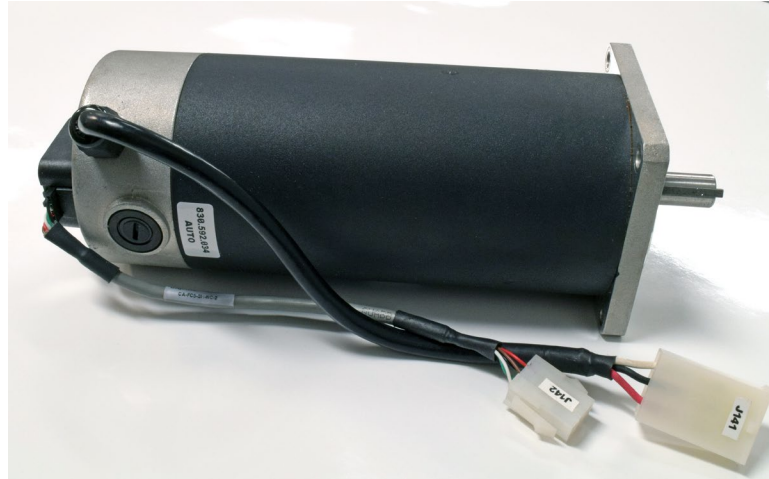
D8XX592027 – Motor, Brushless, 90 VDC – For Headstock unit

XX changes based on machine type as follows:

D830592027 for Packaging Spectrum Auto machines

D831192027 for Décor Spectrum Auto machines

D832592027 for Large Format machines



D8XX592030 – Rotary Encoder, Integral Shaft

For machines #1039 and later.

XX changes based on machine type as follows:

18 is for Packaging Spectrum

19 is for Décor Spectrum

21 is for Large Format Spectrum



D8XX592031 – Switch, Proximity – Head Fully Retracted

XX changes based on machine type as follows:

D830592031 is for Packaging Spectrum Auto

D831592031 is for Décor Spectrum Auto

D832592031 is for Large Format

D833592033 is for Compact Spectrum Auto



D830592032 – Encoder – Headstock/Tailstock Leadscrew



D8XX592034 – Motor, 24 VDC – Cylinder Supports drive

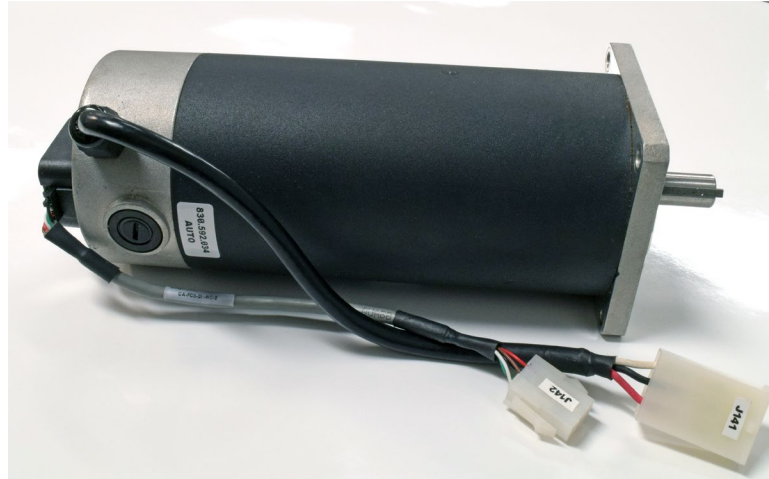
XX changes based on machine type as follows:

D830592034 for Spectrum Auto Packaging

D831592034 for Spectrum Auto Décor

D832592034 for Large Format

D833592034 for Spectrum Auto Compact



D8XX592036 – Motor, Brushless, 90 VDC – For Tailstock unit

XX changes based on machine type as follows:

D830592036 for Packaging Spectrum Auto machines

D831592036 for Décor Spectrum Auto machines

D833592036 for Large Format Spectrums



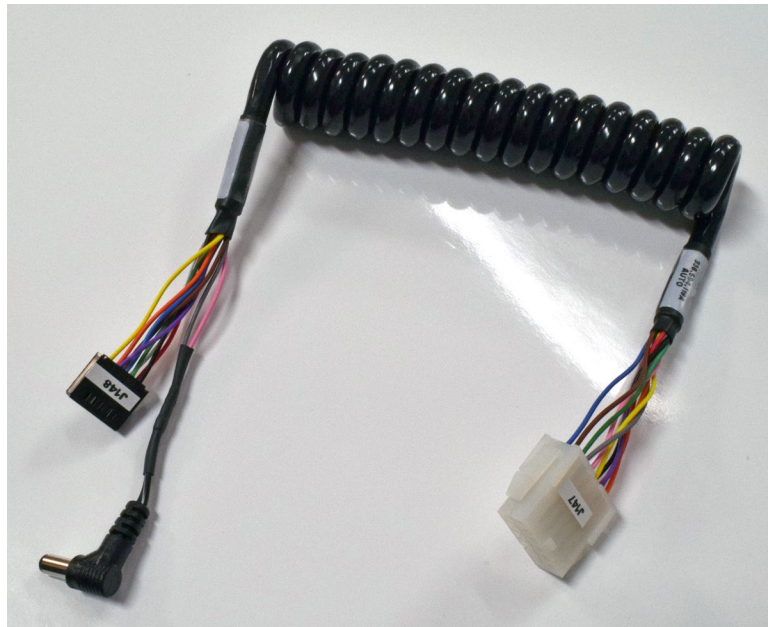
D830592041 – Power Supply, 24 VDC – For Cylinder Diameter Measurement tool



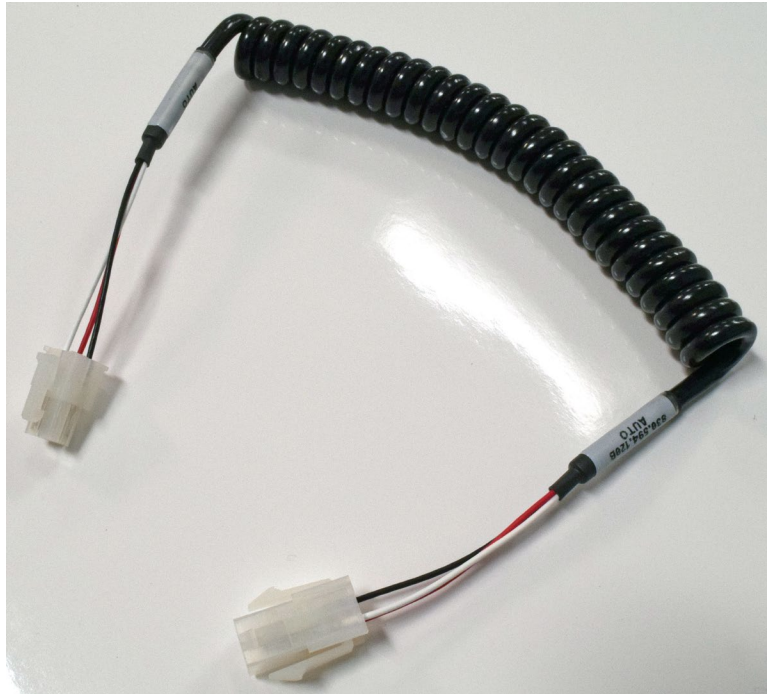
D830592044 – LVDT, TIR Measurement



D830594119 – Cable, Coiled, Power for Cylinder Diameter Measurement



D830594120 – Cable, Coiled, For Cylinder Present prox on Cylinder Supports



D830594123 – Power Cable, Camera (Ethernet type)

