

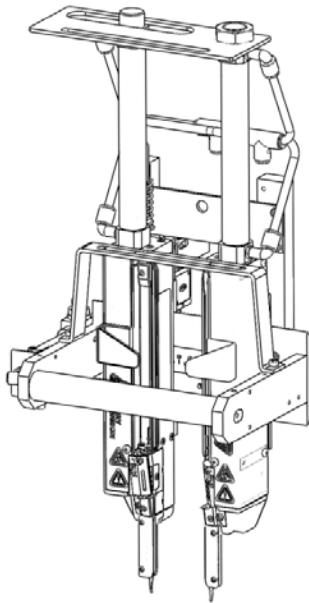
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IndES™ Elastic Staple® System

Operations and Service Manual

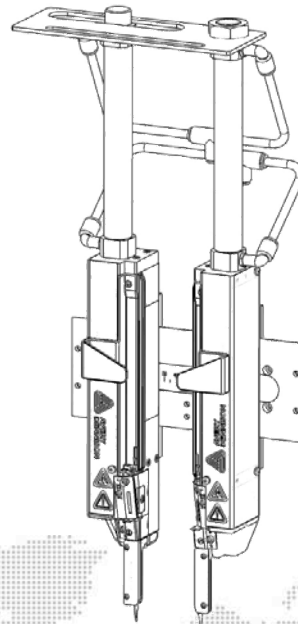
#11600-0

IndES Module with Actuator Handle



#11605-0

IndES Module without Actuator Handle



Printed in China

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Rev. 4

Design and Development →

Manufacturing →

Logistics →

Retail →

Elevating Brand and Accelerating Performance
Throughout the Global Retail Supply Chain



Retail Branding and
Information Solutions

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Important Safety Instructions



WARNING

For your safety, the information in this manual must be followed to prevent personal injury or loss of life.

- **Module needles are extremely sharp and can cause serious injury. Keep hands and clothing clear of needles while operating machine.**
- **Disconnect the air supply before attempting to replace any component.**
- **Do not remove or tamper with any of the warning or caution labels on the machine.**
- **Pay close attention to all warning labels and symbols.**
- **Never under any circumstances try to put more than 80 psi (0.55 MPa) into the machine.**



Chapter 1 Introduction

Avery Dennison's IndES™ Elastic Staple System offers accelerated packaging performance, consumer appeal and sustainability.

The IndES™ Elastic Staple System is an easy to operate, reliable and versatile packaging solution that enables manufacturers to reduce overall packaging and associated costs, while improving productivity. Elastic staples secure products in visible packaging applications for greater consumer appeal and reduced waste.

Powered by compressed air, the IndES™ System's application module is designed to be used as a stand-alone unit or an integrated part of an automation system. It allows maximum flexibility as it can work with a variety of product shapes, sizes and positions. Improvements in production output and reduced packaging material costs created by the IndES™ Elastic Staple System provide a quick return on investment.

The IndES™ Elastic Staple is a strong yet pliable fastener that conforms to a variety of product shapes and sizes. Available in lengths from 15mm (1/2") to 100mm (3 7/8") the IndES™ Elastic Staple has a minimum staple tensile strength of 5 lbs (2.26 kgs) to hold the product neatly and securely in place while allowing for easy and safe removal of the product from its packaging. Weighing in at 0.045 grams per staple the IndES™ Elastic Staple provides a solution that can reduce the amount of plastic in packaging over other conventional methods of packaging.

Elevating Brands. Accelerating Performance.

Experience this and many other supply chain solutions at our worldwide Customer Design and Innovation Centers. To schedule a tour of our Customer Design and Innovation Centers, please call 800.543.6650, prompt 5 or e-mail rbis.dmail@averydennison.com.

For more information on the Avery Dennison IndES™ Elastic System Product name, visit our website at www.rbis.averydennison.com.

Chapter 2 Installation

Unpacking the IndES™ Module Assembly

- ✓ Check the contents of the shipping box. It should contain the following:
 - 1 IndES™ Module Assembly
 - 1 Operator and Service Manual
 - 1 CE compliance sheet
 - 1 Air Regulator

- ✓ Visually inspect the shipping carton.
 - If the shipping box is damaged, notify the freight carrier as well as Avery Dennison.
 - Save the shipping materials for inspection by the freight carrier.

- ✓ Remove the IndES™ Module Assembly from the packaging.

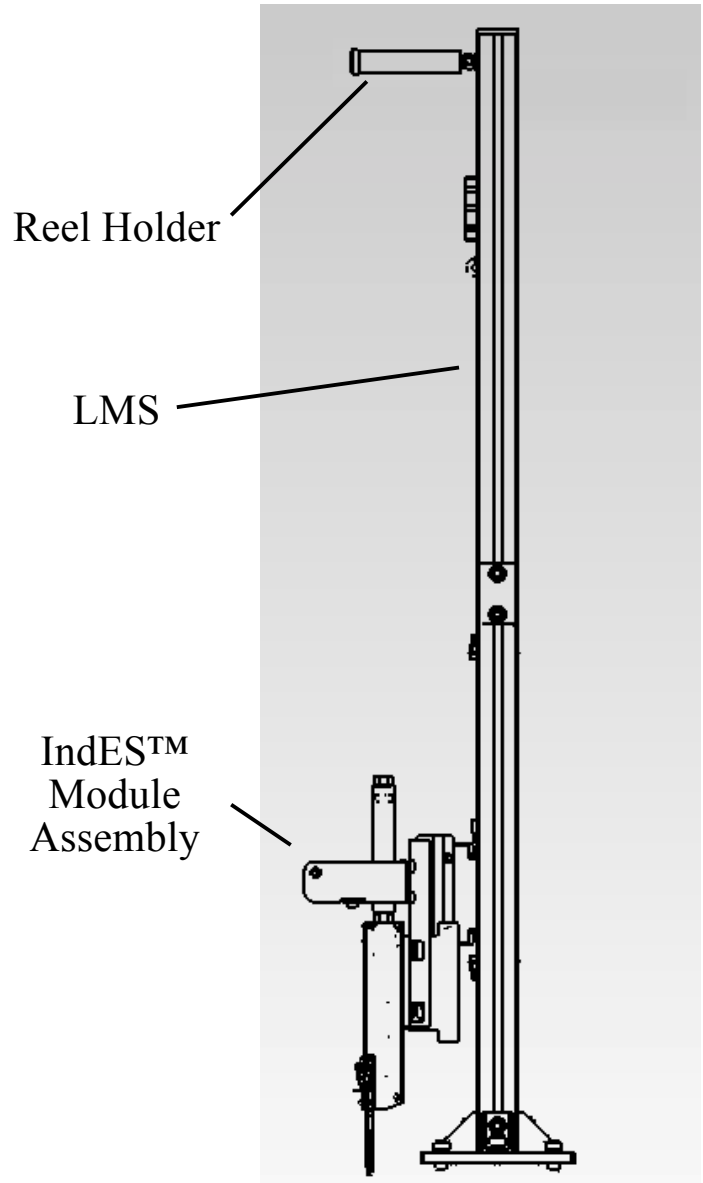
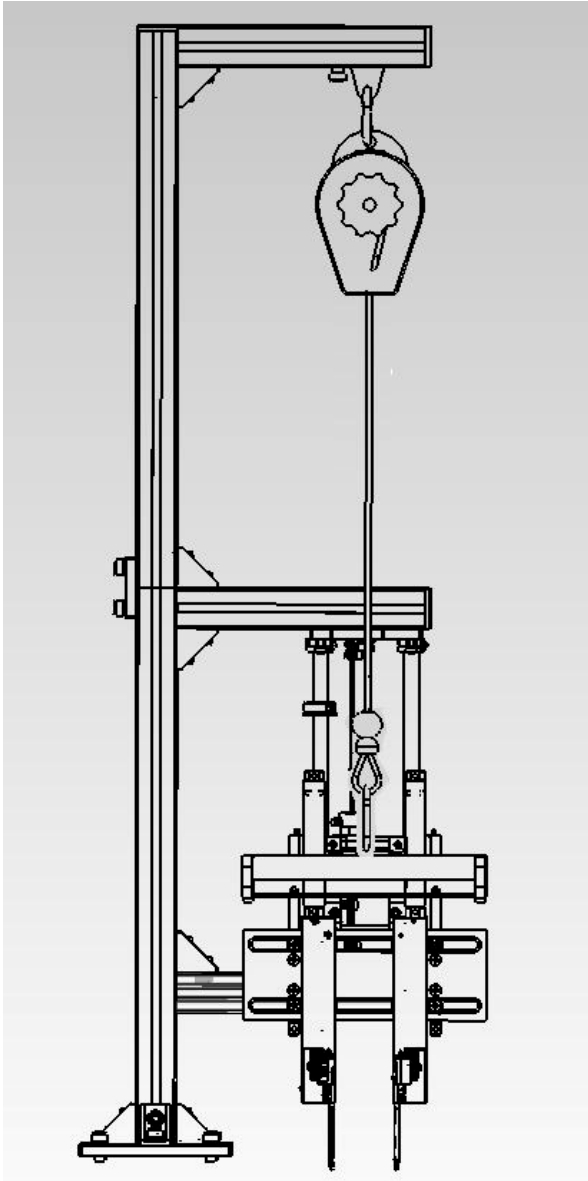
- ✓ Visually inspect the IndES™ Module Assembly and the shipping materials.
 - If the contents are damaged, notify Avery Dennison immediately.
 - If the shipping box is also damaged, notify the freight carrier as well as Avery Dennison.
 - Save the shipping materials for inspection by the freight carrier.

- ✓ Save the shipping carton for future use.
 - Always put the IndES™ Module Assembly back in the original shipping carton to protect it from damage when unit is in storage.

Chapter 3 Mounting the Module Assembly

The Linear Mounting Stand (LMS)

The LMS is a bench mounted, stand-alone unit that provides an easy way to increase productivity and consistency in product packaging.



IndEST™ Module Assembly mounted on the LMS

Mounting the 11600-0 IndES™ Module Assembly on the LMS



WARNING

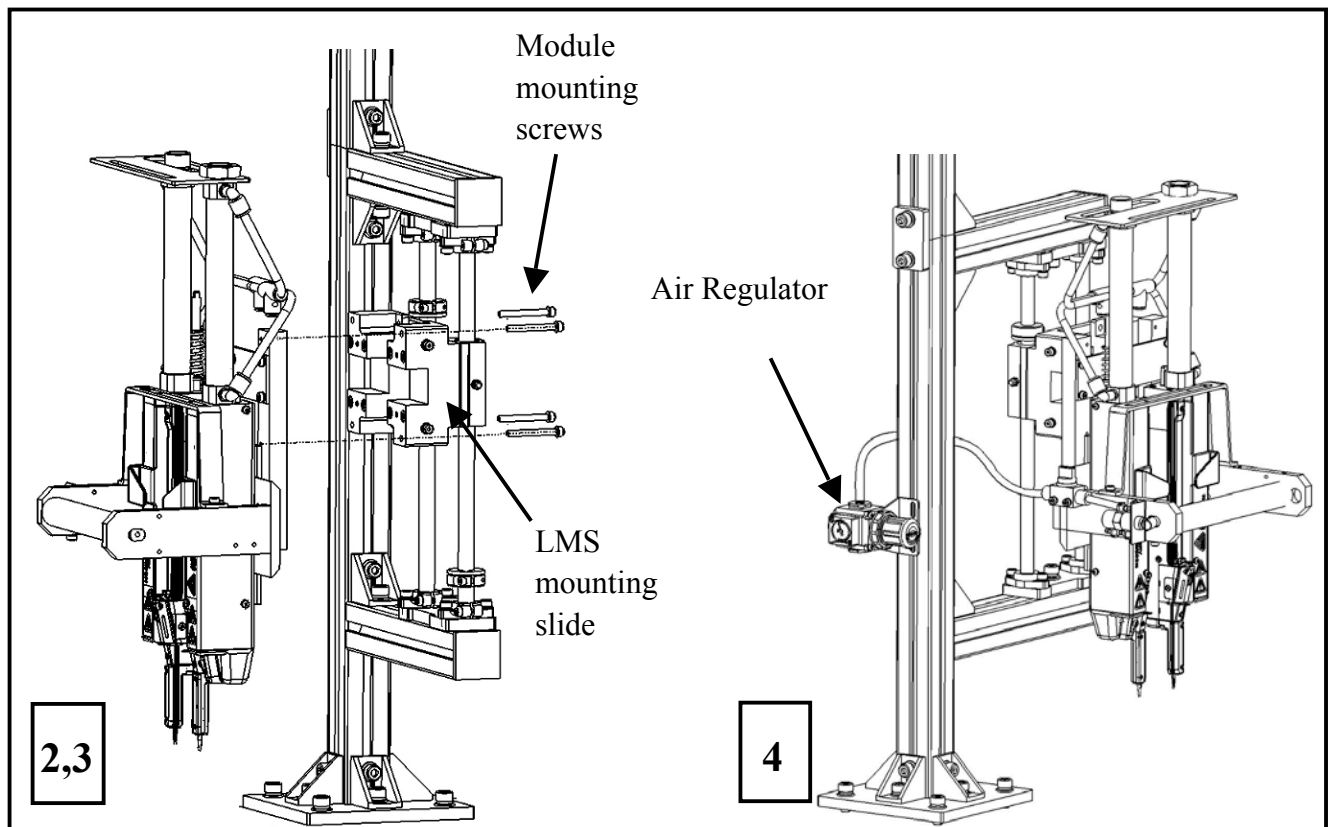
IndES™ module needles are sharp. Remove needles before mounting the IndES™ Module Assembly on the LMS. Use caution when removing and replacing needles and during operation.
Discard needles that are damaged or have punctured the skin

To attach the IndES™ Module Assembly to the LMS you will need the following additional component:

- 1 LMS (Linear Mounting System) Part Number: 10735-0

To properly mount the IndES™ Module Assembly to the LMS:

1. Mount the LMS to a solid base or table before attempting to mount the IndES™ Module assembly to the LMS.
 - A base or table is not included with the LMS.
2. Align the IndES™ Module Assembly with the mounting slide of the LMS.
3. Secure the Module Assembly using the four mounting screws provided with the LMS
4. Attach the IndES™ Module Air Regulator to the LMS frame



Mounting the 11605-0 IndES™ Module Assembly on the APU100



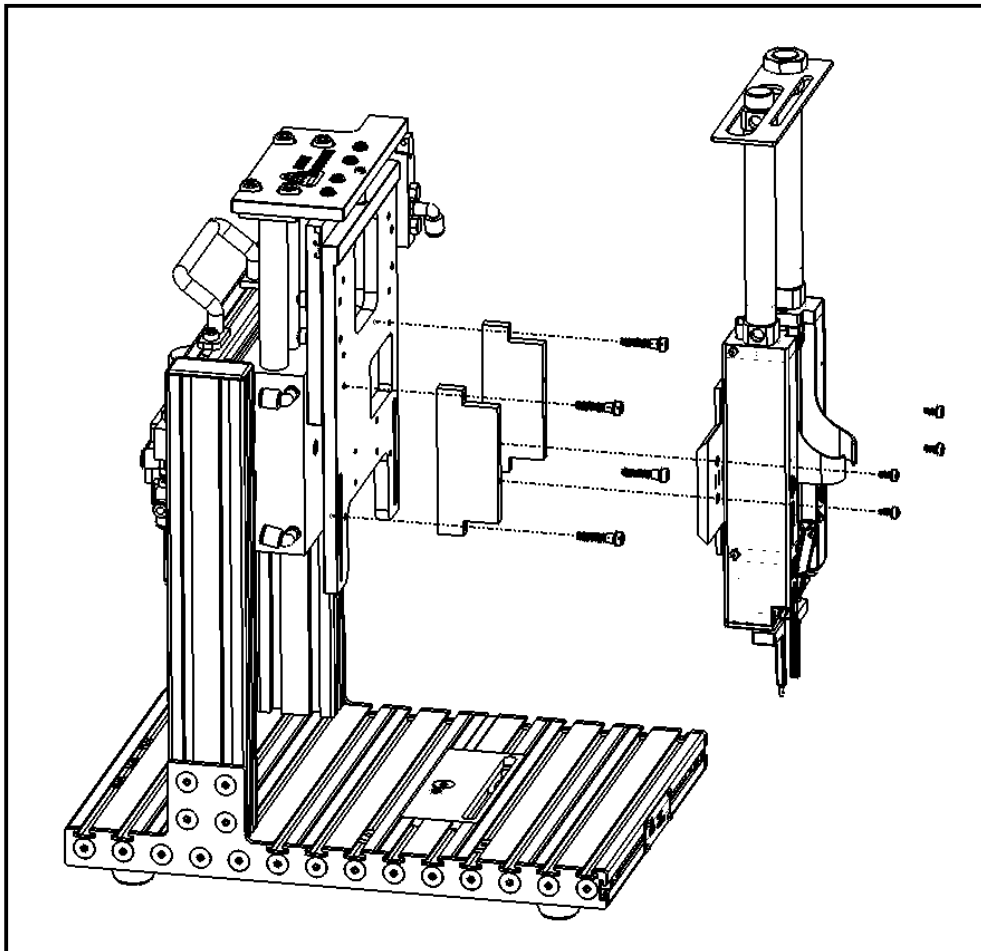
WARNING

IndES™ module needles are sharp. Remove needles before mounting the IndES™ Module Assembly on the LMS. Use caution when removing and replacing needles and during operation. Discard needles that are damaged or have punctured the skin

To attach the IndES™ Module Assembly to the APU100 you will need the following additional components:

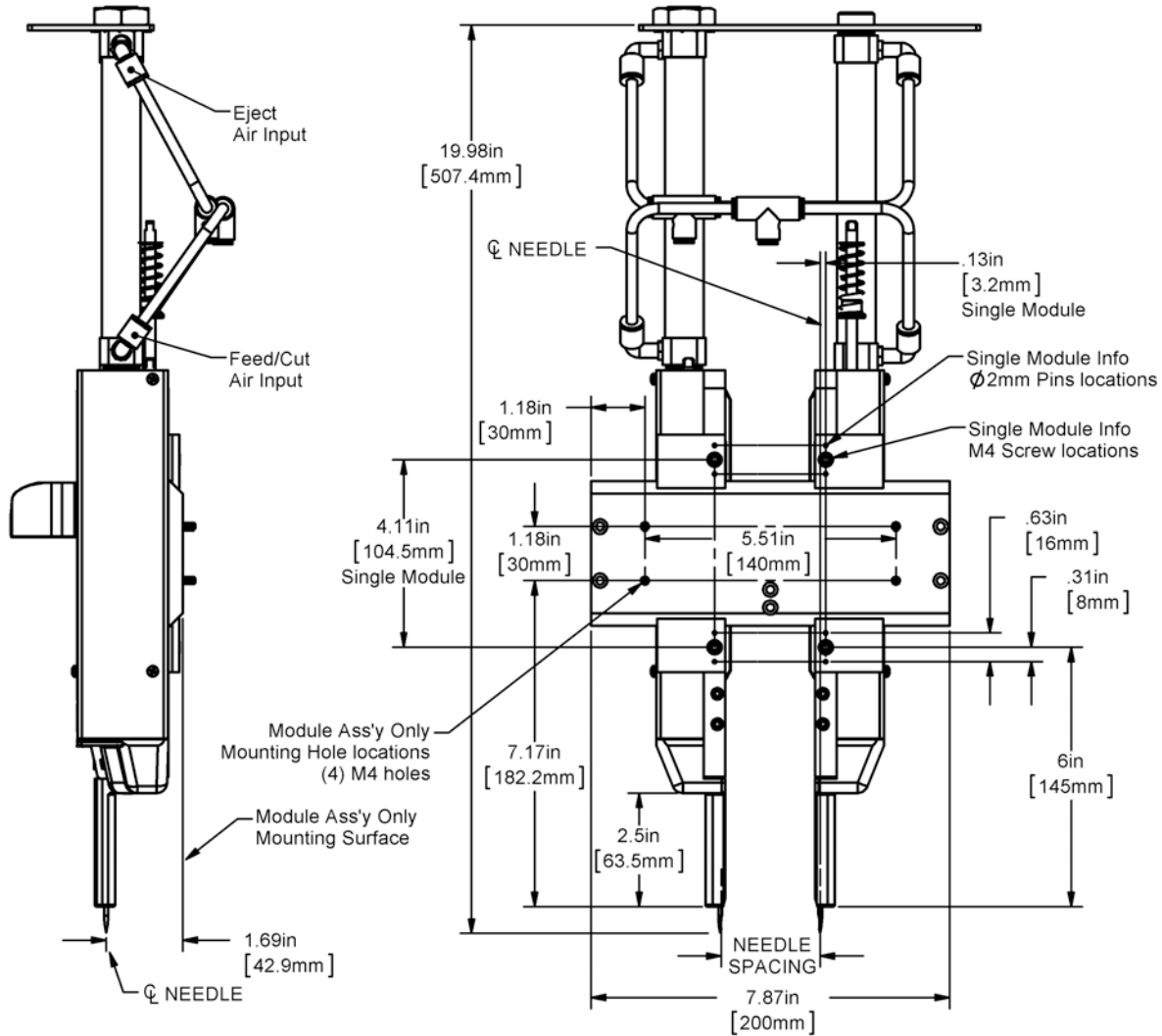
- | | | |
|---|-----------------------------------|----------------------|
| 1 | APU100 (Automated Packaging Unit) | Part Number: 11610-0 |
| 1 | IndES™ Mounting Kit for APU | Part Number: 11614-0 |

To properly mount the IndES™ Module Assembly to the APU100 see the APU100 Operator Instruction Manual supplied with the APU100.



Mounting the 11605-0 IndES™ Module Assembly into custom automation

The IndES™ Module Assembly can also be easily mounted and operated in custom automation.



Right Side View

Back View

Notes:

1. All dimensions in inch [metric]
2. Tolerances +/- .06 [1.5mm]
3. Input air must be regulated to 5F³/min @ 80psi [.63 M³/min @ 0.55 MPa] to ensure proper machine operation.

MACHINE WEIGHT	6.1 lbs [2.8 kg]
SHIPPING WEIGHT	8.7 lbs [4.0 kg]
OPERATING PRESSURE	80 psi [0.55 MPa]
CYCLE SPEED	0.6 seconds
*MIN.NEEDLE SPACING	.50" [12.7mm]
*MAX.NEEDLE SPACING	4.28" [108.6mm]

*See Operation Manual for proper needle spacing for the staple size being used

Chapter 4 Adjusting the IndES™ Module

Air Pressure



WARNING

MAXIMUM AIR PRESSURE 80 PSI (.55 MPa)



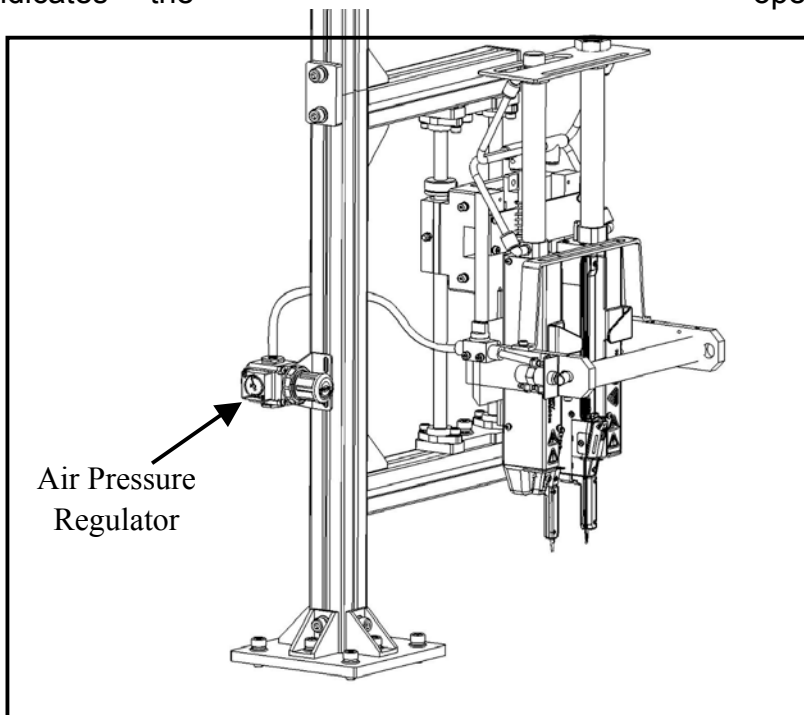
WARNING

**Module needles are sharp. Use caution when removing and replacing needles and during operation.
Discard needles that are damaged or have punctured the skin**

The IndES™ Module is designed to be operated at 80 PSI [.55 MPa] 5F³/min [.63 M³/min] Increasing the pressure greater than the recommended MAX air pressure may:

- Cause a dangerous condition to the operator
- Damage the IndES™ Module
- Void the manufacturer's warranty

An air pressure regulator is provided with the IndES™ Module Assembly and is factory set to the required air pressure. The pressure regulator will reduce the input air pressure to the recommended operating air pressure. Verify the reading on the air pressure regulator's dial which indicates the operating pressure prior to operation.



Module Needle Depth



WARNING

Disconnect air supply before making this adjustment

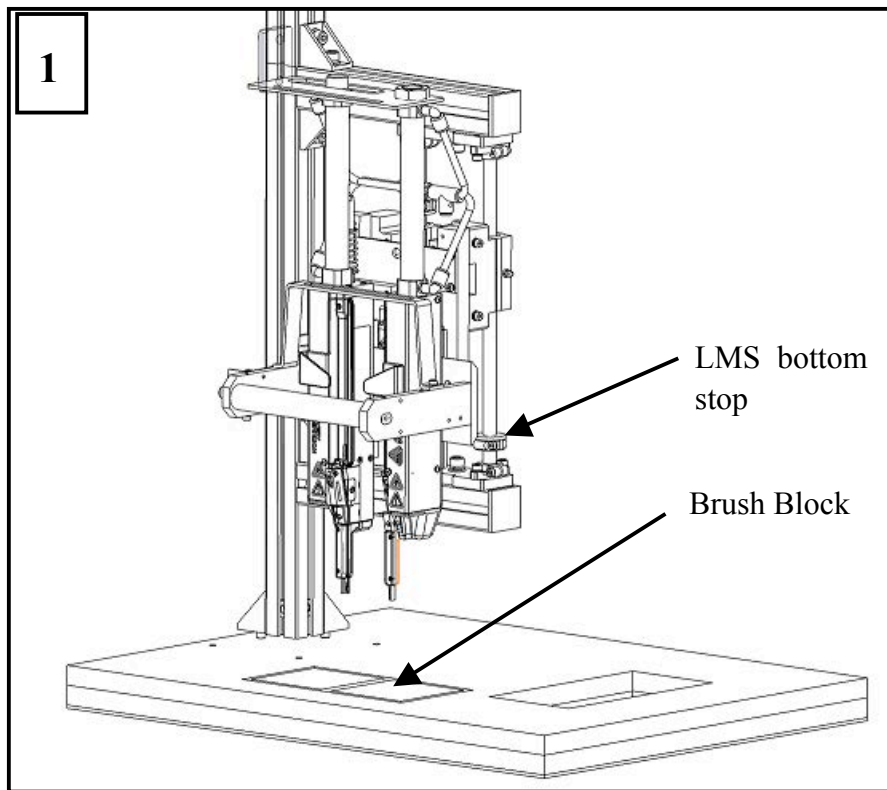


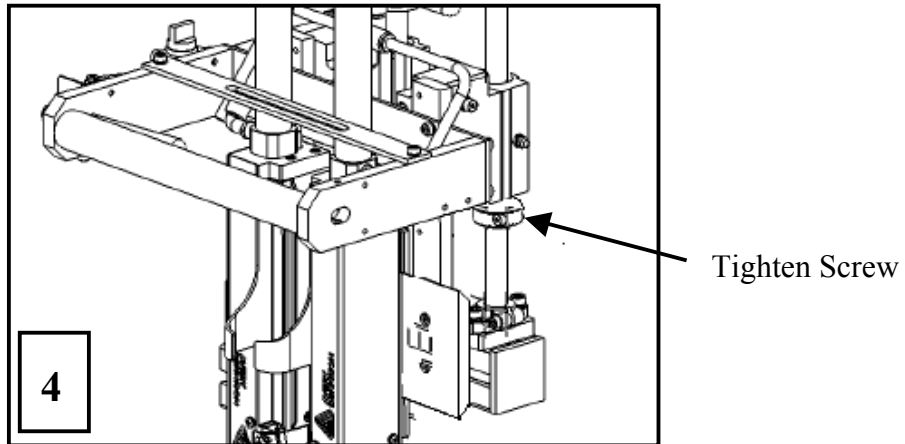
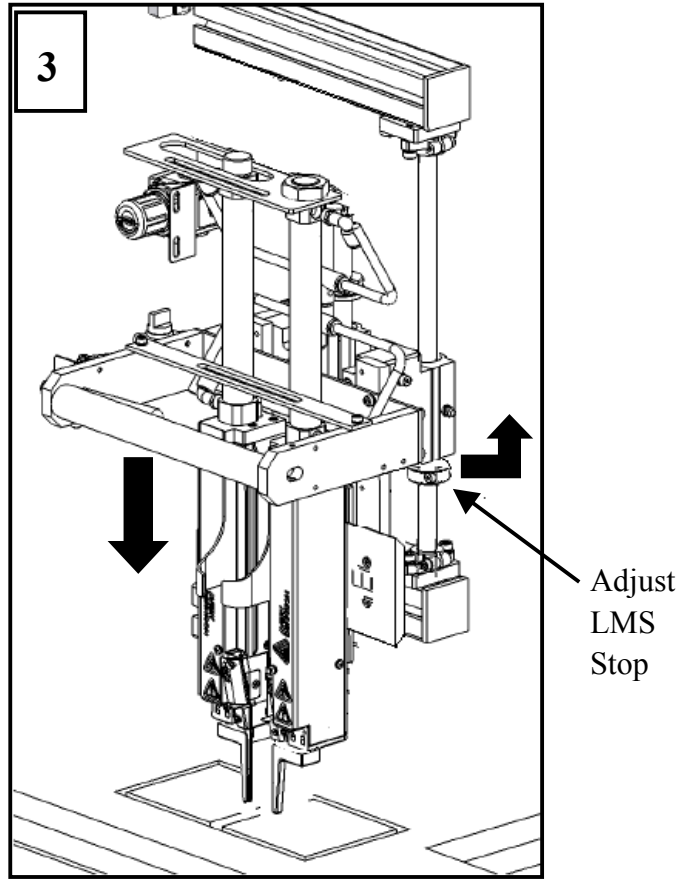
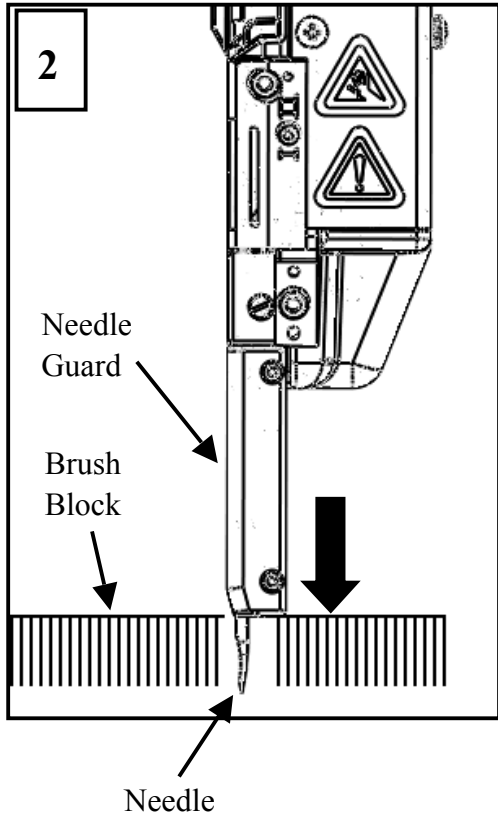
WARNING

Module needles are sharp. Use caution when removing and replacing needles and during operation.
Discard needles that are damaged or have punctured the skin

To properly install fasteners, the Module's needles must be adjusted so the opening in the end of the needle is below the top surface of the base.

1. Loosen the bottom stop on the LMS
2. Lower the Module until the Needle guards expose the Needles so that the guards are touching the top of the Brush Block
3. Position the stop to the bottom of the Module Assembly
4. Tighten the stop adjustment screw

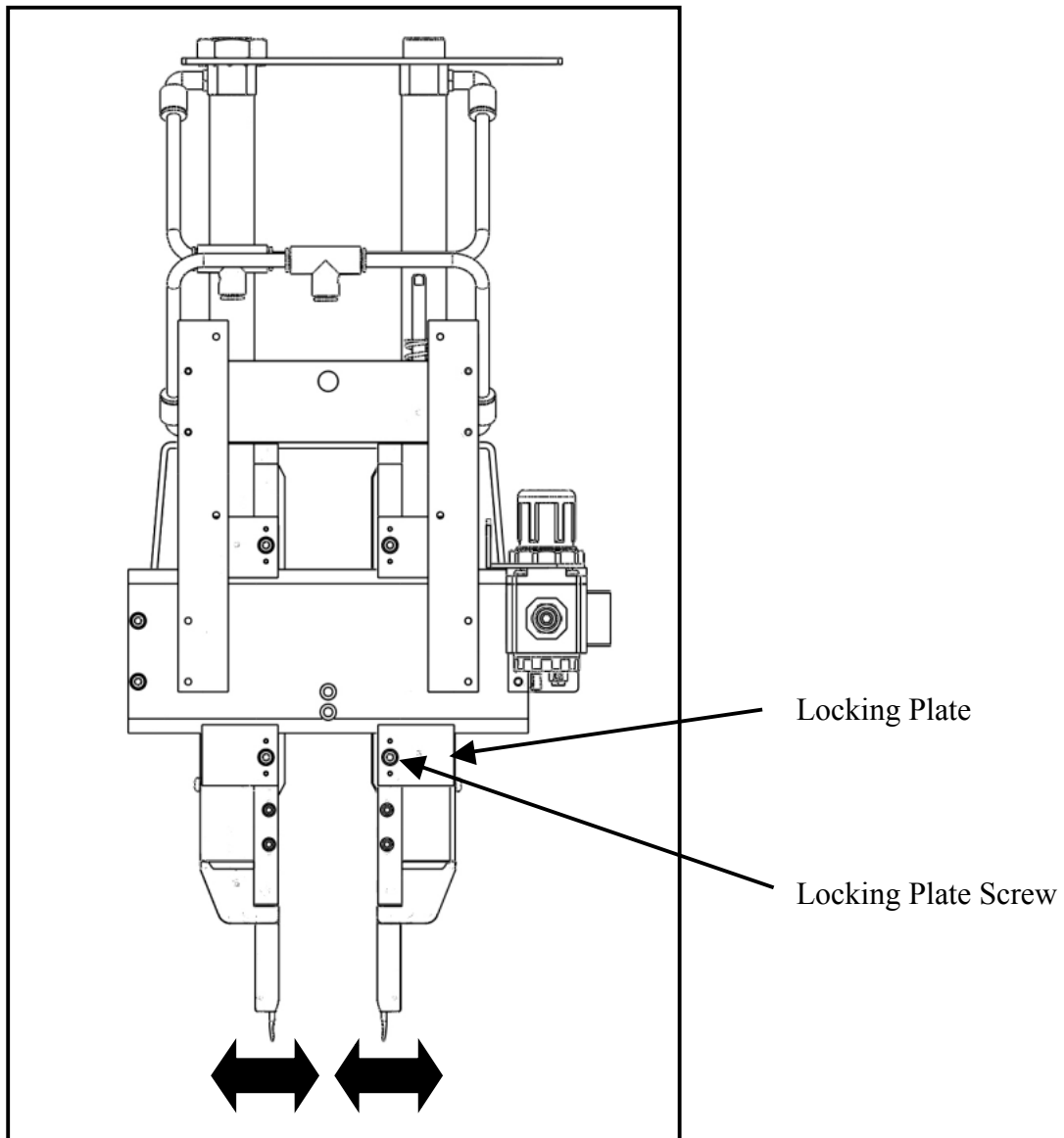




Needle Spacing

To properly install fasteners, the Module's needle spacing must be adjusted so the Needle Guards are positioned just outside of the product to be stapled.

1. Find the Locking Plate and Locking Plate screw on the bottom back of the Module assembly
2. Loosen one or both Locking Plate screws just enough to move the Module(s)
3. Move one or both modules left or right to position the Needle Guards around product
4. Tighten the Locking Plate screw(s)



Viewing the BACK of the IndES™ Module

Chapter 5 Loading the Fastener

Loading the Fastener from the Reel to the Module Assembly



WARNING

Air supply must be connected during this procedure.

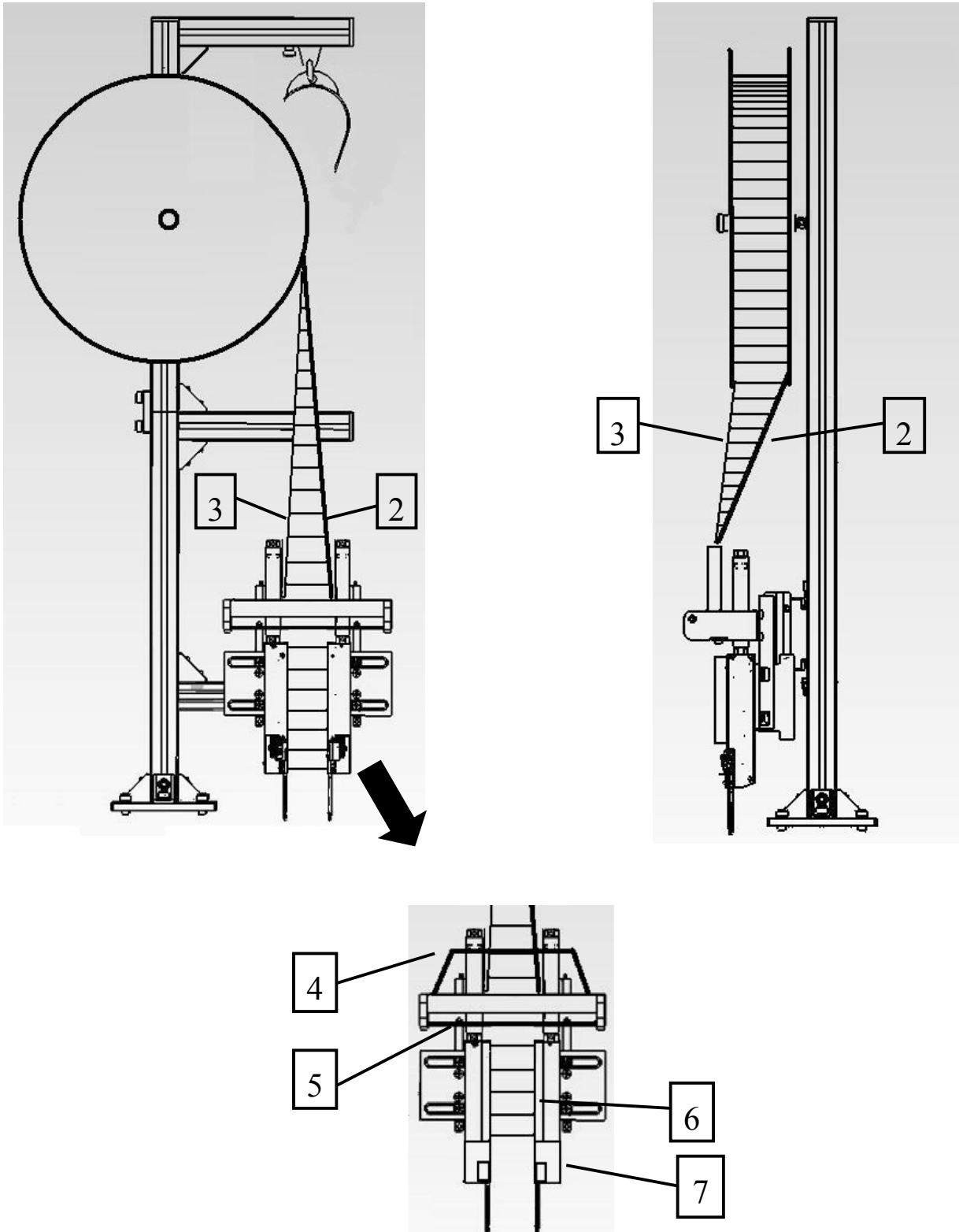


WARNING

Module needles are sharp. Use caution when removing and replacing needles and during operation.
Discard needles that are damaged or have punctured the skin

- ✓ Refer to the Staple Loading Diagram on next page:
- 1. With the staple reel mounted on the reel holder, unroll the staple chain from the top of the reel.
- 2. Pulling the staple chain toward the Module Assembly, the rear rung (2) inserts into the right side of the Module Assembly.
- 3. Pulling the staple chain toward the Module Assembly, the front rung (3) inserts into the left side of the Module Assembly.
- 4. Lower the Staple chain through the slot in the upper handle guide.
- 5. Lower the Staple chain through the slot in the lower handle guide.
- 6. Lower the Staple chain evenly into the right and left Module Assembly Feed guides.
- 7. Lower the Staple chain down to the entrance of the Module Assembly Feed guides.
- 8. See next section “*Loading the Fastener into the Module’s Feed System*” for more instructions

Staple Loading Diagram - from the Reel to the Module Assembly

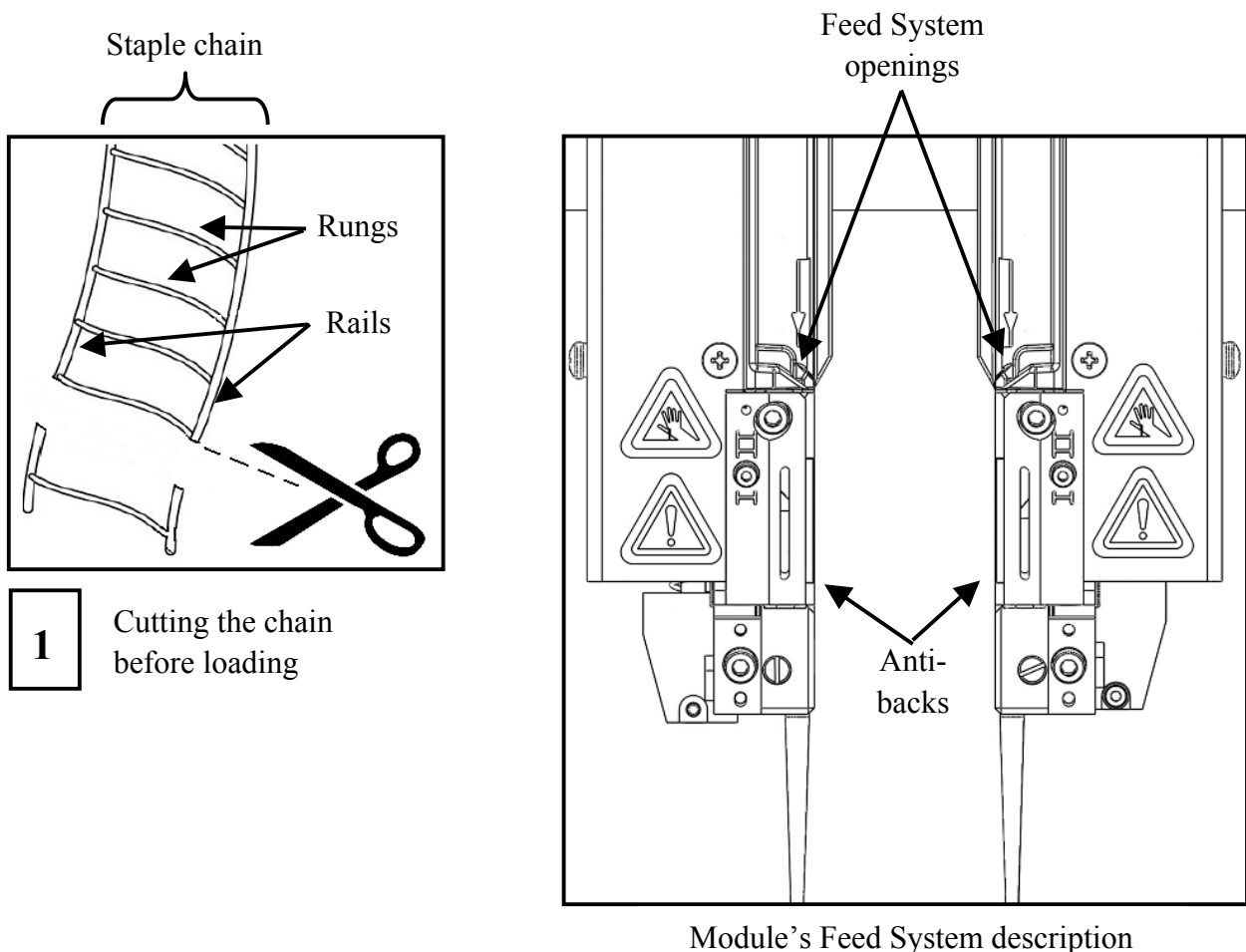


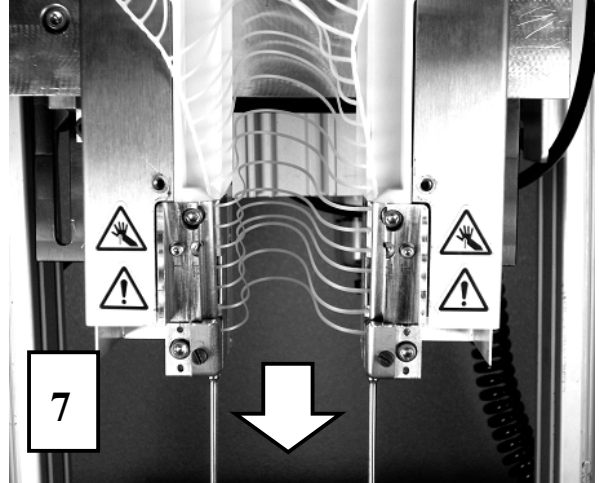
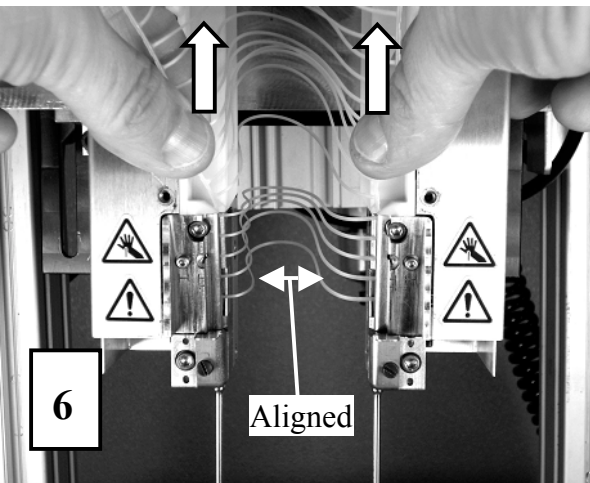
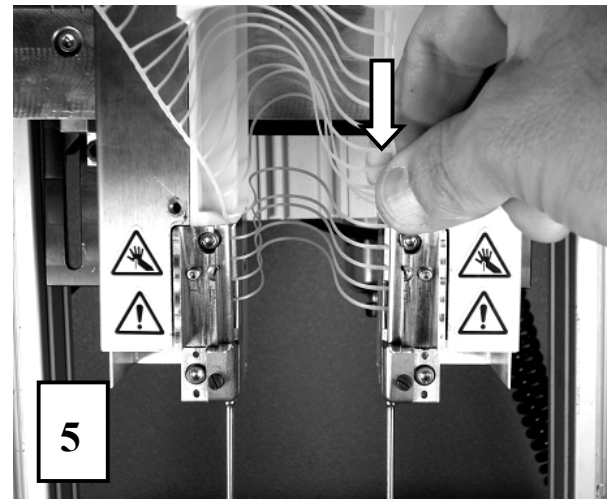
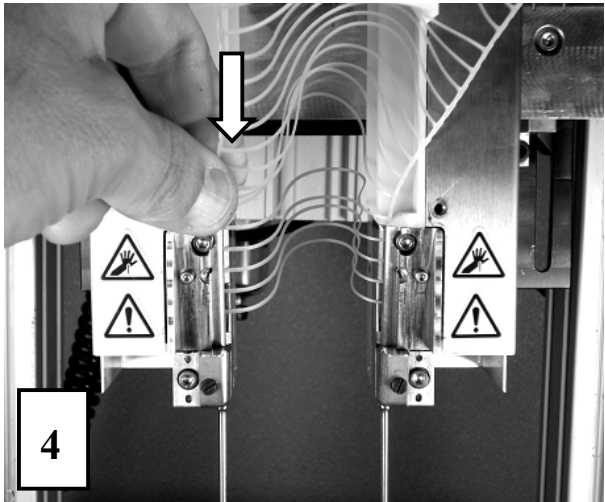
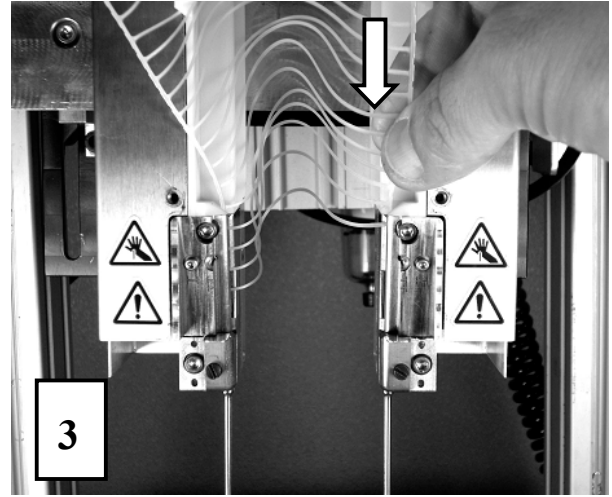
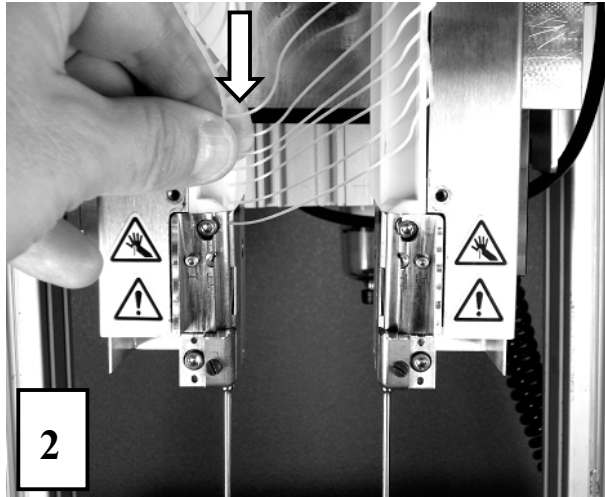
Loading the Fastener into the Module's Feed System

✓ With the staple loaded to the Module Assembly per the previous chapter:

Air Supply should be ON

1. Cut the staple chain rails just below one rung on the staple chain.
2. Insert one side of the staple chain into the opening in the feed system.
3. Insert the other side of the staple chain into the other opening in the feed system.
4. Push one side of the staple chain down until bottom rung engages the anti-back
5. Push other side also down until the bottom rung is also engaged with the anti-back
 - *Both sides of the staple chain should be aligned.*
6. Holding the staple chain with both hands, pull up gently to ensure that the chain is engaged with the feed.
 - *Both sides of the staple chain should be aligned.*
7. Cycle machine a few times to verify proper cutting and feeding.





Un-loading the Fastener from the Module's Feed System

✓ With staple chain loaded to the Module Assembly per the previous chapter:

Air Supply can be ON

1. Using a spare IndES ejector rod as a tool, hold the ejector rod like a pencil and insert the long end into the top of the slot in the feed system (Illustration shows right module)

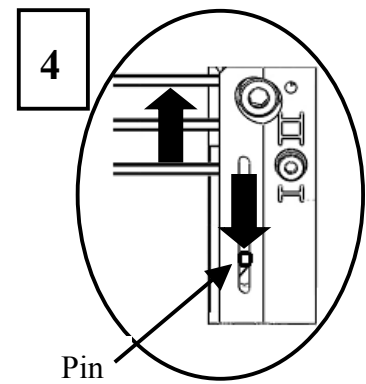
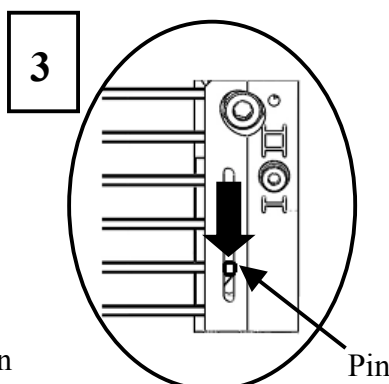
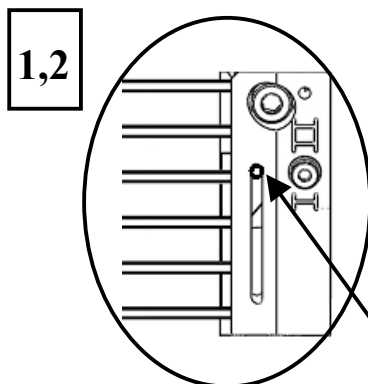
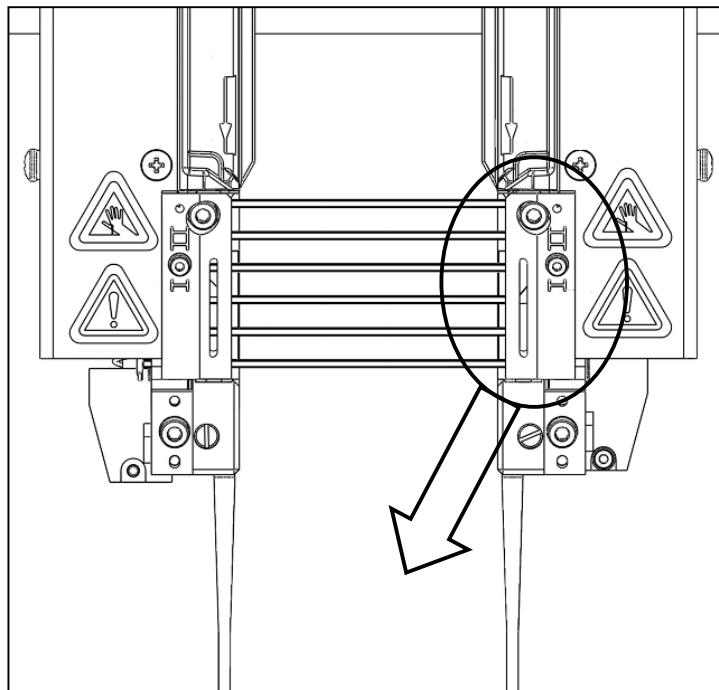
• *A small diameter pin can be substituted in place of an ejector rod*

2. Push the ejector rod all the way in until it hits the bottom of the slot

3. Drag the ejector rod down until it contacts the feed systems feed pawl and moves the pawl out of engagement with the staple chain

4. Hold the pin down and pull up on the staple chain to remove the staple chain from the feed system

5. Perform the same operation on the other module

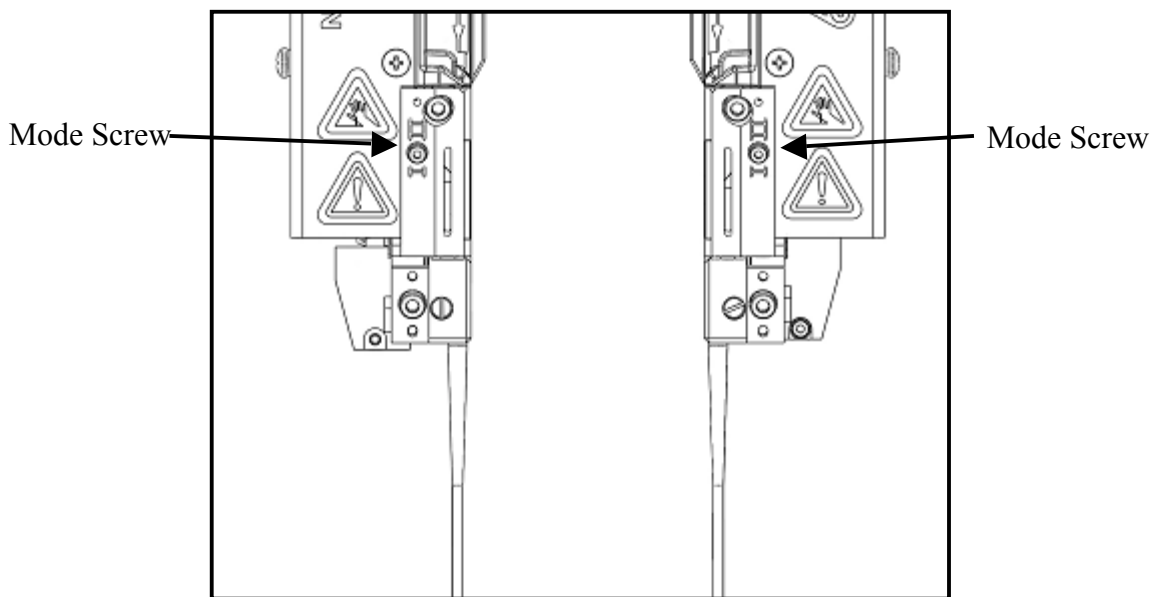


Adjusting for Single Shot or Double Shot Operation

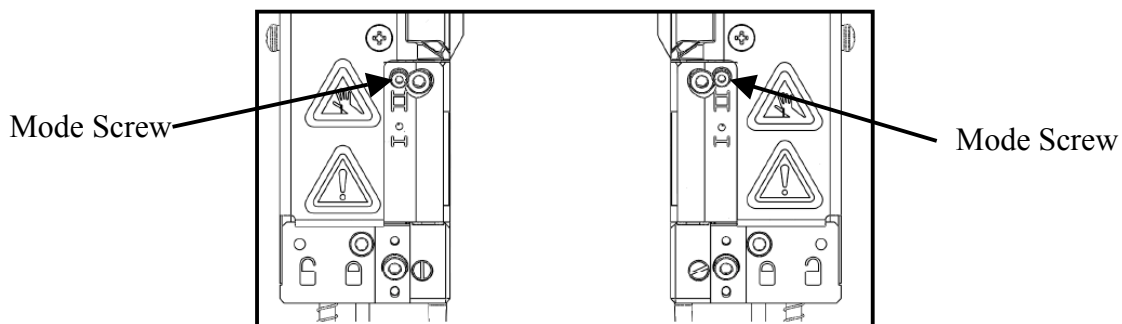
✓ With staple chain loaded in the Module Assembly per the previous chapter:

Air Supply must be ON

1. Locate the single shot mode / double shot mode screws on the Module's feed systems
2. Move the screws to the "I" for single shot mode or "II" for the double shot mode.
 - Both screws must be in the same mode for proper operation
 - ***Failure to move both screws will cause the machine to jam***
3. Tighten the screws
4. Cycle machine a few times to verify proper cutting and feeding.



Mode screws in Single Shot mode



Mode screws in double shot mode

Installing a Fastener



WARNING

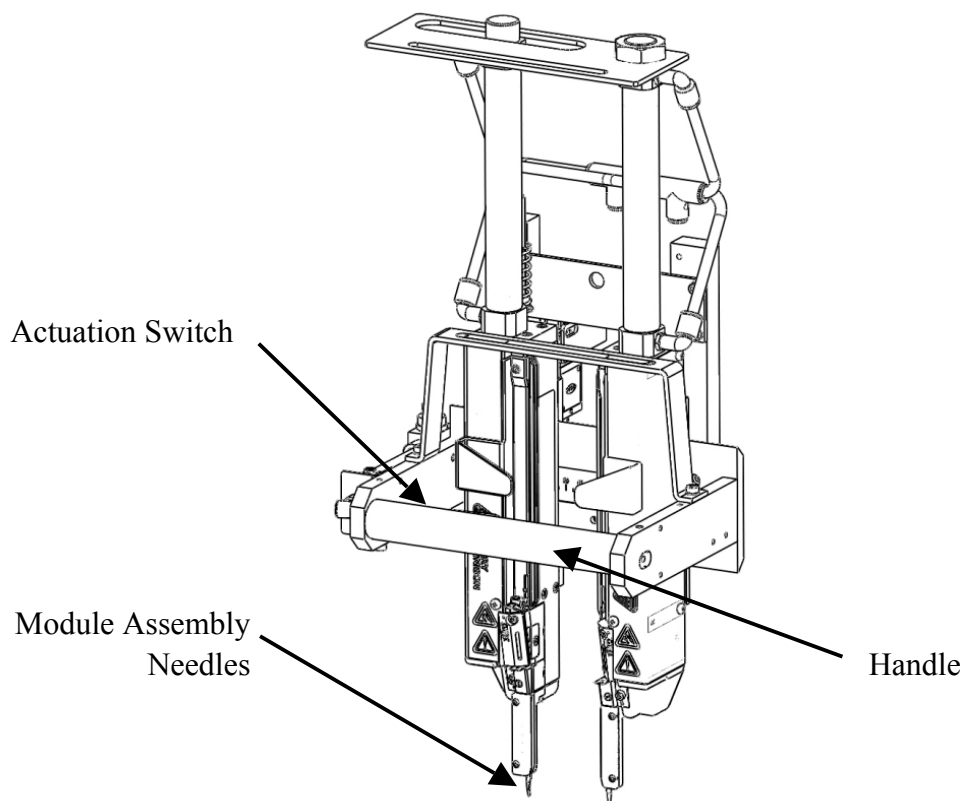
Air supply must be connected during this procedure.



WARNING

Module needles are sharp. Use caution when removing and replacing needles and during operation.
Discard needles that are damaged or have punctured the skin

- ✓ Position the product between the Module Assembly needles
- ✓ Make sure the area is clear of everything but the product to be fastened
- ✓ Lower the IndES™ Module's needles over the product
- ✓ Pull the actuation switch located on the handle to install the staple chain around the product
 - Make sure to HOLD the switch until the staple chain is completely installed
- ✓ Retract the IndES™ Module's needles from the product
- ✓ Release the actuation switch. The machine will automatically load the next fastener for use
 - Make sure not to operate the actuation switch again until the machine has completely reloaded.
 - **Premature actuation may cause the machine to jam**



Chapter 6 Maintenance

Routine Maintenance and Lubrication



WARNING

Always use caution when air supply is connected



WARNING

Module needles are sharp. Use caution when removing and replacing needles and during operation.
Discard needles that are damaged or have punctured the skin

Daily Maintenance

- Check for damaged needle tips before beginning operation
- Blow off machine with air gun at 80psi [5.5 Mpa]

Every 1,000,000 Cycles

- Replace knives and ejector rods

Every 5,000,000 Cycles

- Clean and inspect machine components for wear or damage
- Clean slides and linkage and re-lubricate

Every 10,000,000 Cycles

- Replace Blade Drive Spring
- Replace Feed and Cut Shaft Spring
- Replace Feed Pawl
- Replace Feed Links and Feed Link Pivots

Recommended Lubricant

High quality Moly EP grease

Clearing a Staple Jam

- ✓ In the event of a staple jam STOP the machine immediately and clear the jammed staples to prevent damage to the machine

Turn ON air supply

1. Unload the staple chain as described in the earlier chapter titled “*Unloading the Fastener from the IndES™ Module*”

If there are still staples jammed...

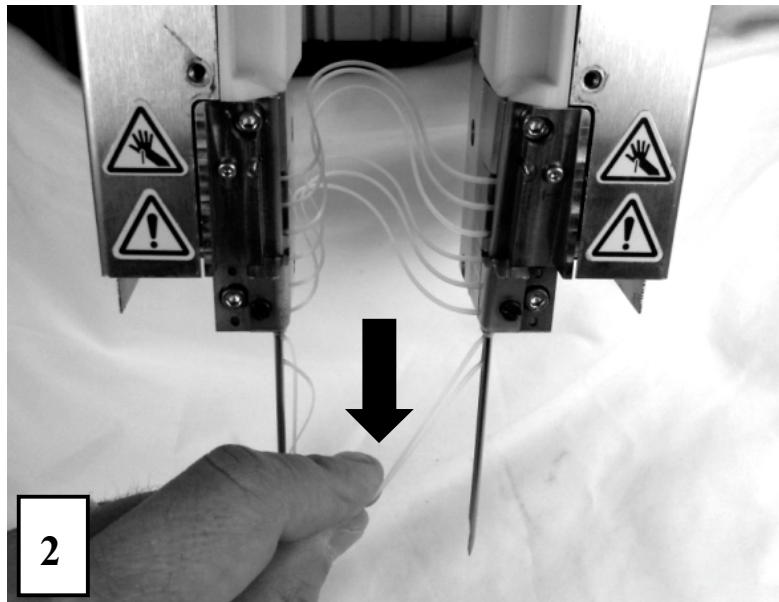
2. **Turn OFF air supply** and pull down to remove the remaining jammed fasteners.

If there are still staples jammed...

3. Remove the needle(s) and clear the Needle(s) of any staples.
4. Actuate the Module a few times to check that ejector rods are traveling properly to the needle tip and the knives are moving in and out correctly.
5. Reload the staple chain and test for proper operation.

If there are still staples jammed...

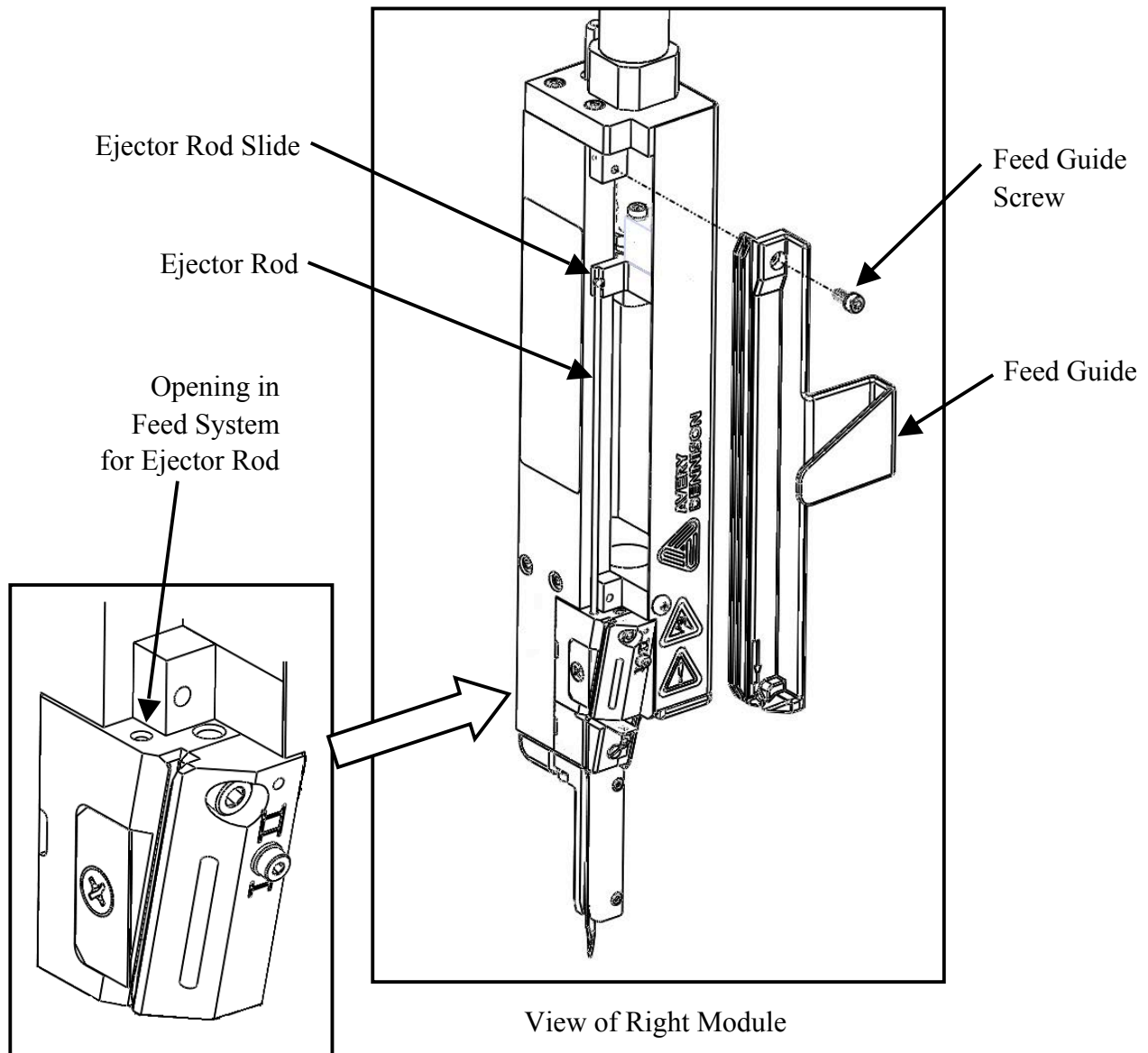
6. If staples fail to feed and eject properly, remove the needle block to look for contamination.



Changing the Ejector Rod

Turn ON or OFF air supply

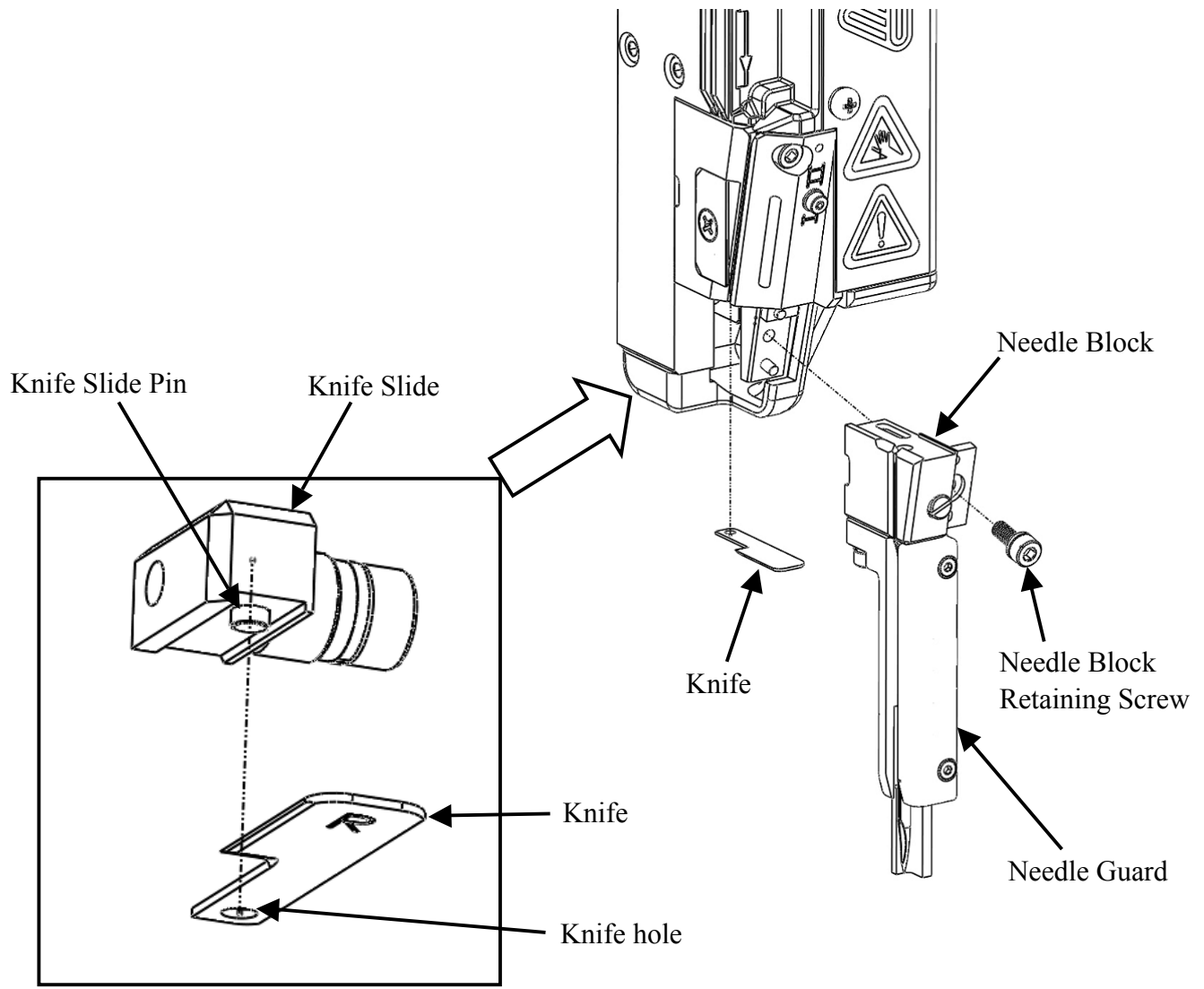
1. Remove feed guide screw and feed guide (Illustration shows Right Module)
2. Remove ejector rod from ejector rod slide and then from feed system
3. Insert tip of new ejector rod into ejector rod opening in feed system
4. Insert angled end of ejector rod into ejector rod slide
5. Install feed guide and feed guide screw to hold ejector rod in place



Changing the Knife

Turn ON air supply

1. Remove needle block retaining screw, needle block and needle guard
2. Remove knife
3. Select a new right or left knife (Illustration shows Right Module)
4. With the "R" or "L" facing down, position the hole in the knife over the pin extending from the bottom of the knife slide in the feed system
5. Holding knife in place, reassemble knife block and knife block retaining screw.
6. Ensure knife moves smoothly in and out before tightening needle block retaining screw.
 - If the Knife is not positioned properly in the knife block it will not move in and out

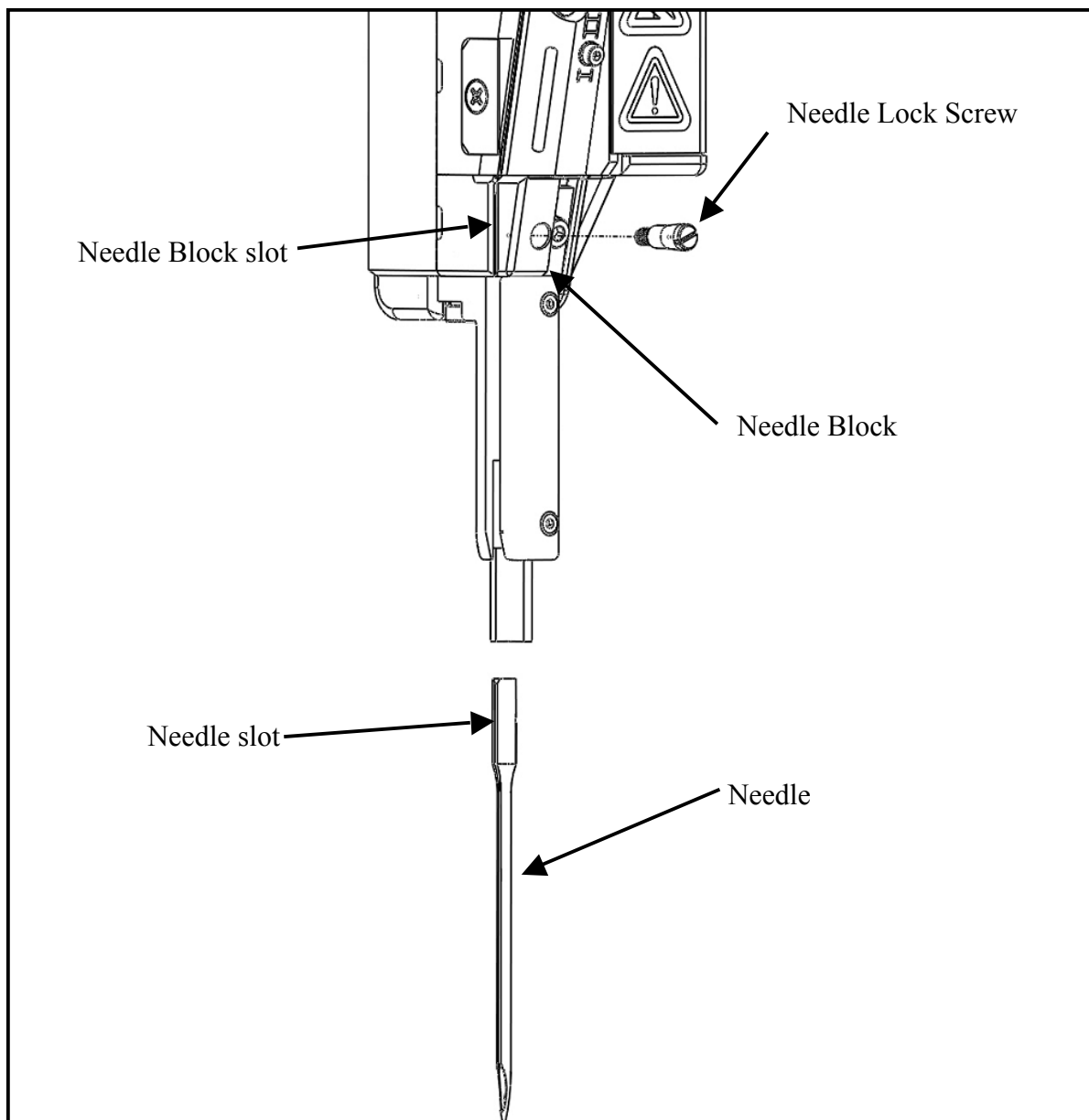


View looking up from bottom

Changing the Needle

Turn OFF air supply

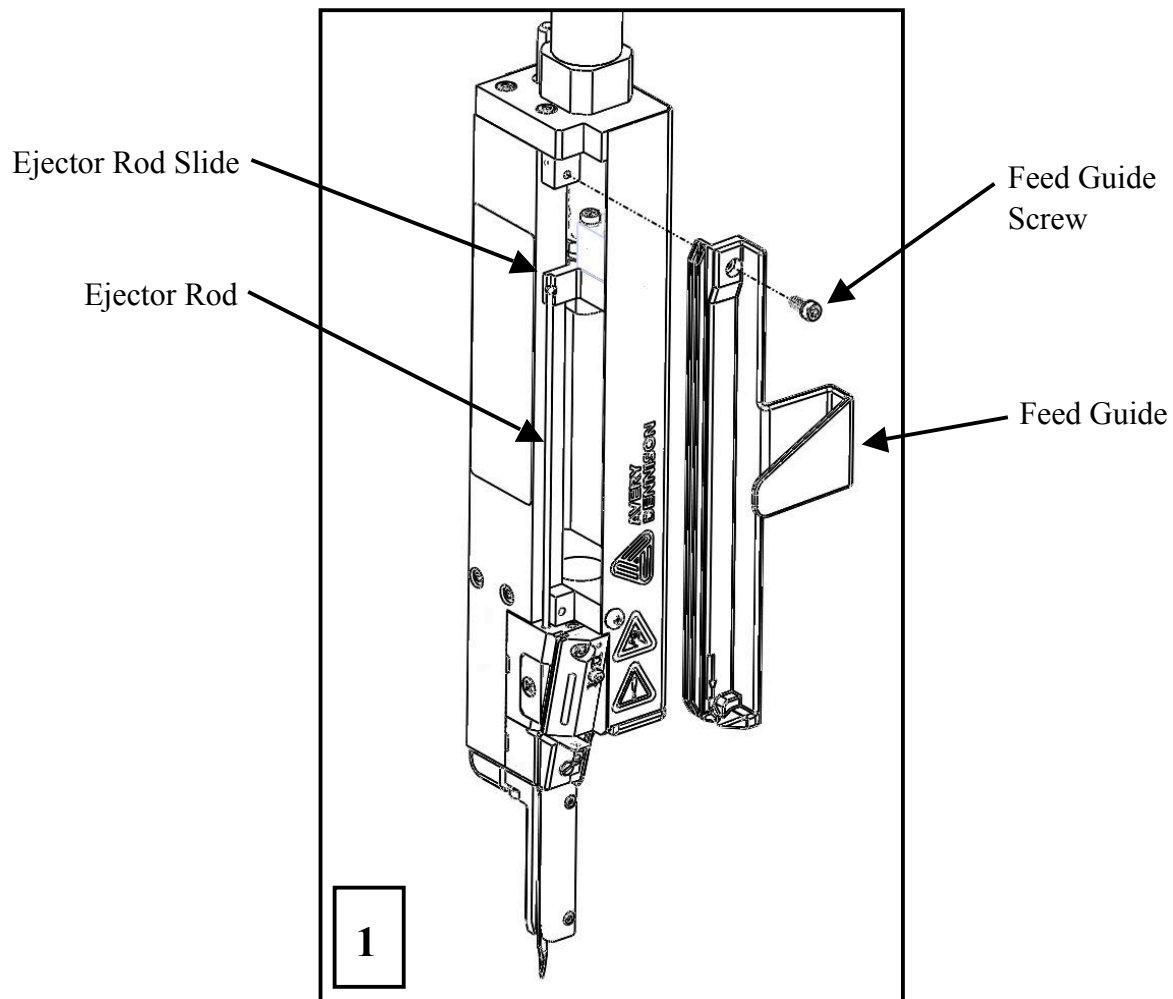
1. Remove the needle lock screw
2. Remove the needle (Illustration shows Right Module)
3. Position the new needle with the needle slot aligned with the slot in the needle block.
4. Push needle all the way up into the needle block
5. Install needle lock screw into needle block
 - It may be necessary to twist the needle slightly until the needle engages with the needle lock screw
6. Tighten needle lock screw

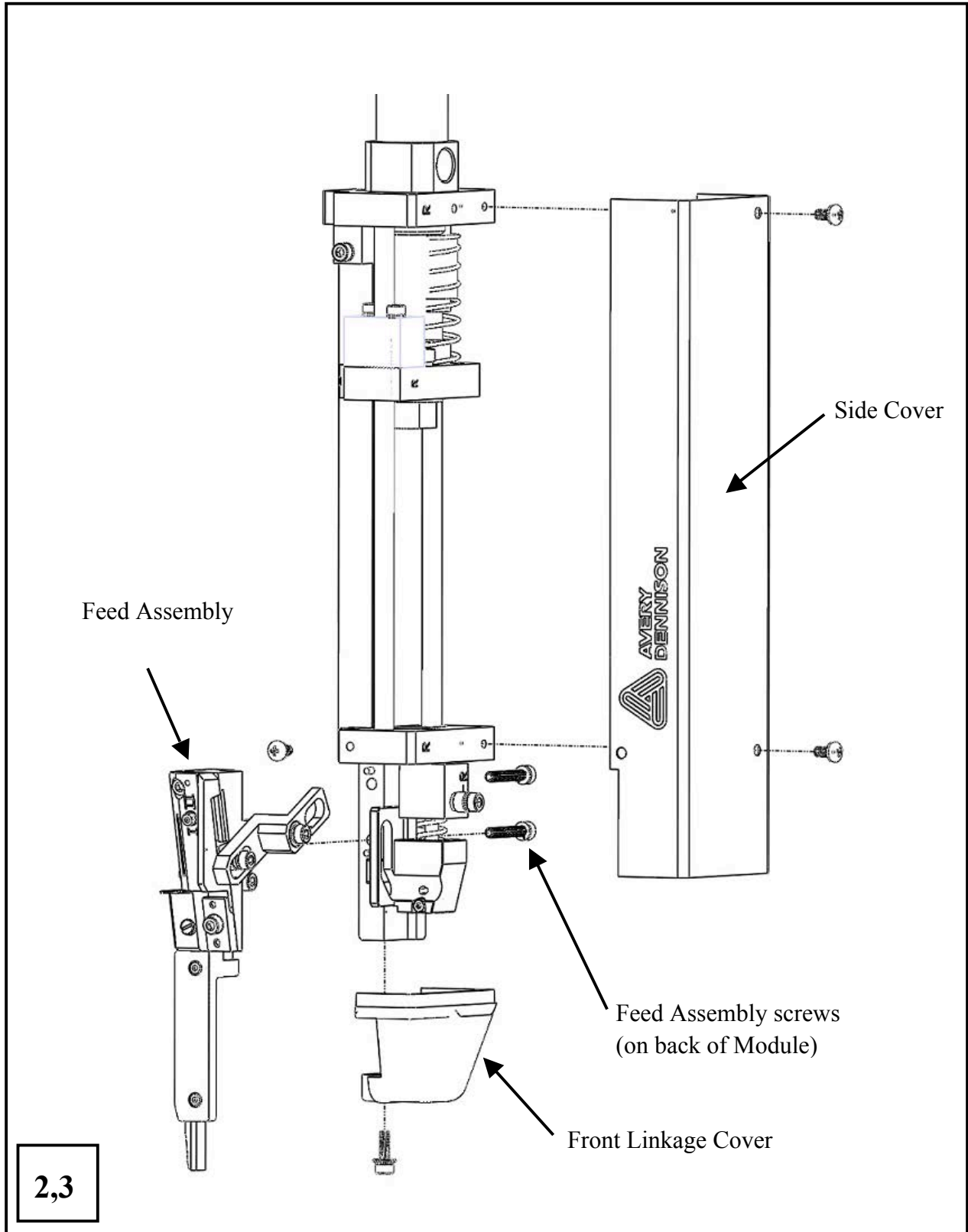


Changing the Feed and Cut Shaft Springs

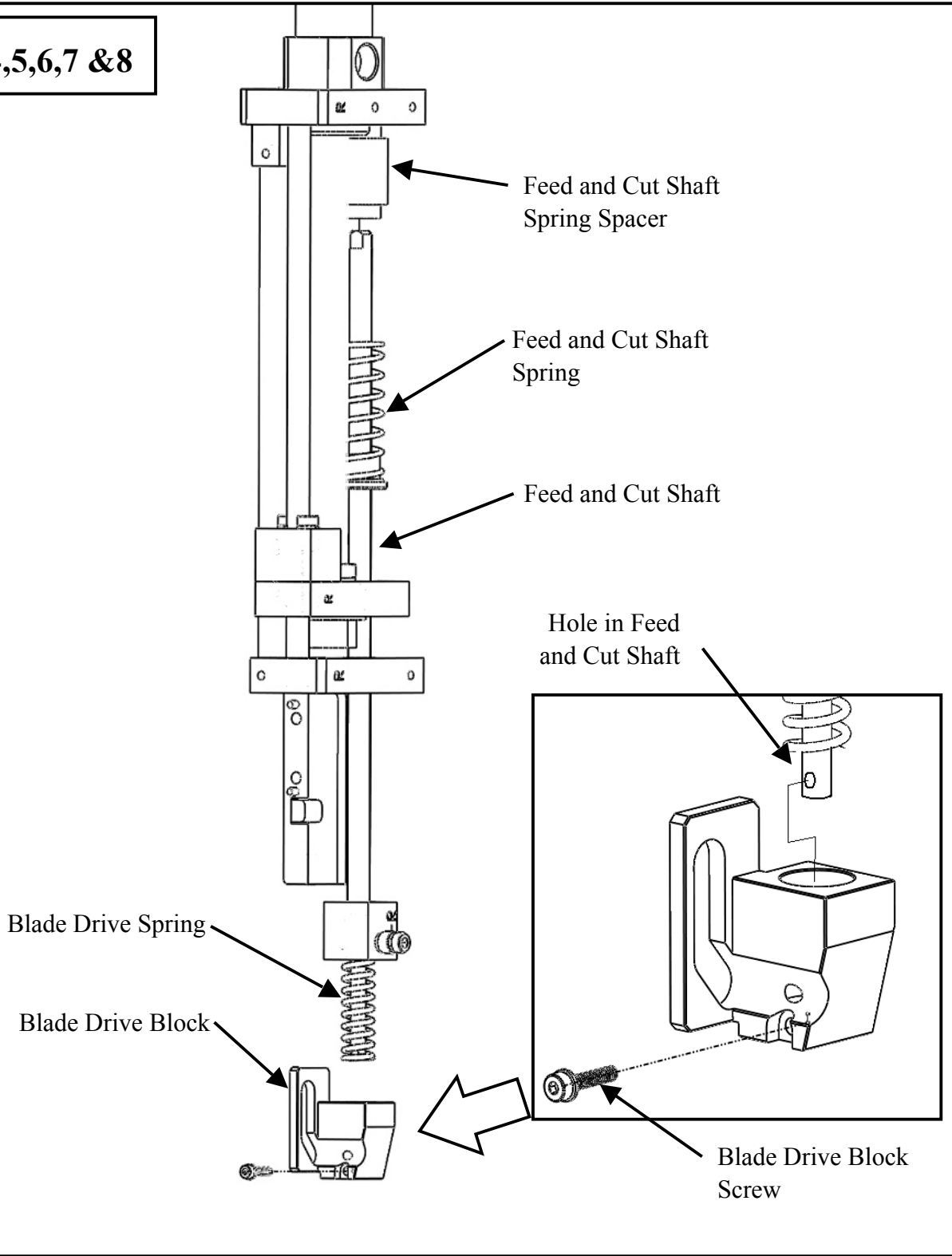
Turn OFF air supply

1. Remove the feed guide and ejector rod (Illustration shows Right Module)
2. Remove front linkage cover and side cover
3. Remove the feed assembly
 - The feed and cut shaft will extend out the front of the Module
4. The feed and cut shaft spacer and spring can now be removed from the top of the shaft
5. Remove blade drive block screw and blade drive block
6. The blade drive spring can now be removed from the shaft
7. Install new blade drive spring over shaft
8. Reinstall blade drive block and blade drive block screw
 - Push the blade drive block onto the shaft until the end of the shaft is flush with the bottom surface of the block. The spring will be slightly compressed
 - Be sure to align the holes in the blade drive block and the feed and cut shaft before inserting the blade drive block screw.





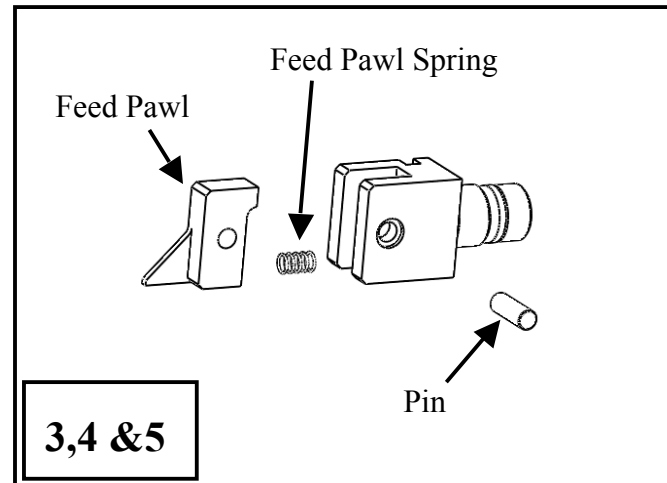
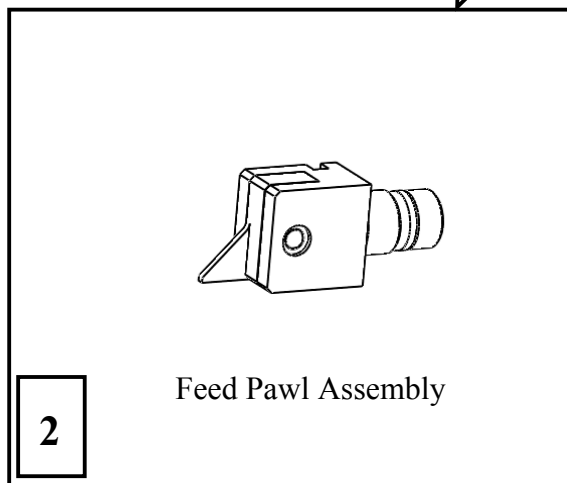
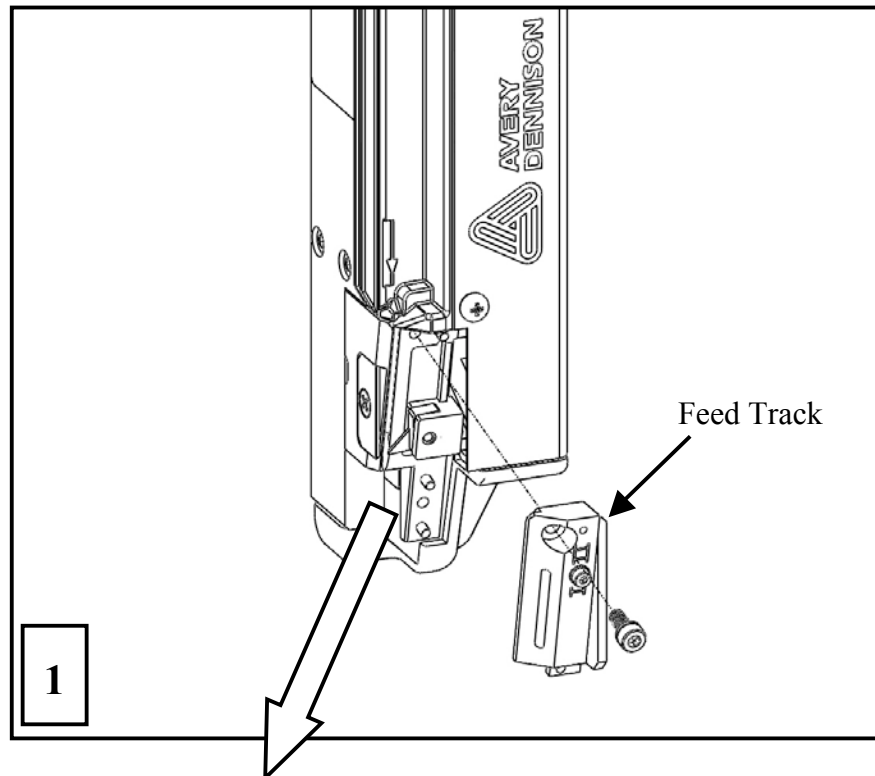
4,5,6,7 & 8



Changing the Feed Pawl Spring

Turn ON air supply

1. Remove the needle block and needle guard (Illustration shows Right Module)
 - See “Changing the Knife” chapter of this manual
2. Remove feed track mounting screw and feed track
3. Remove feed pawl assembly
4. Remove pin from feed pawl assembly
5. Remove feed pawl
6. Replace feed pawl spring

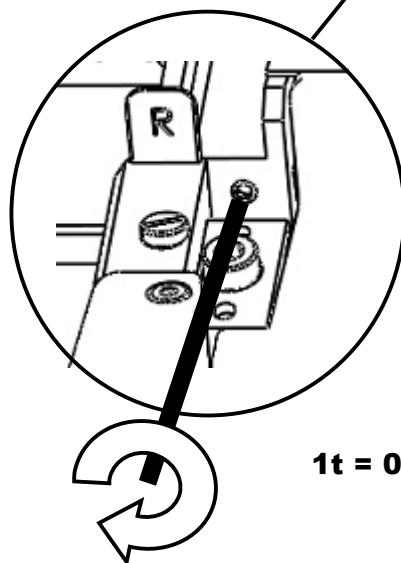
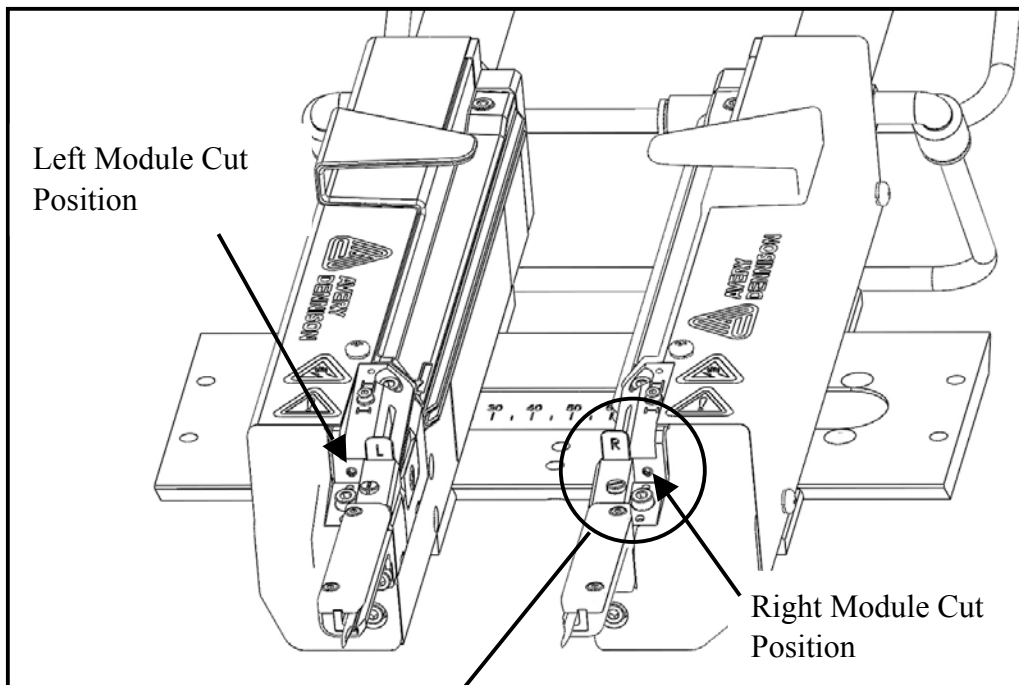


Adjusting the Staple Cut Position

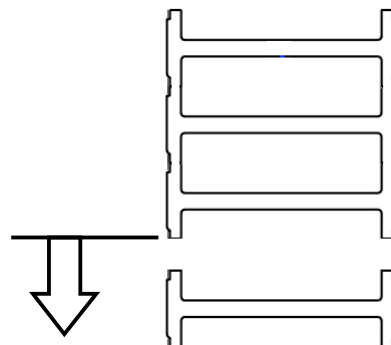
- ✓ The IndES™ machine's staple cut position is factory set and should not require adjustment.
- ✓ Check and make adjustment after any machine maintenance requiring disassembly or changing of parts of the Modules.

Turn ON air supply

1. Turn adjustment screw to achieve proper cut position.
2. Cycle machine with air power to verify proper adjustment.
 - Always use locking screw or apply medium strength thread locker to screw



1t = 0.5mm

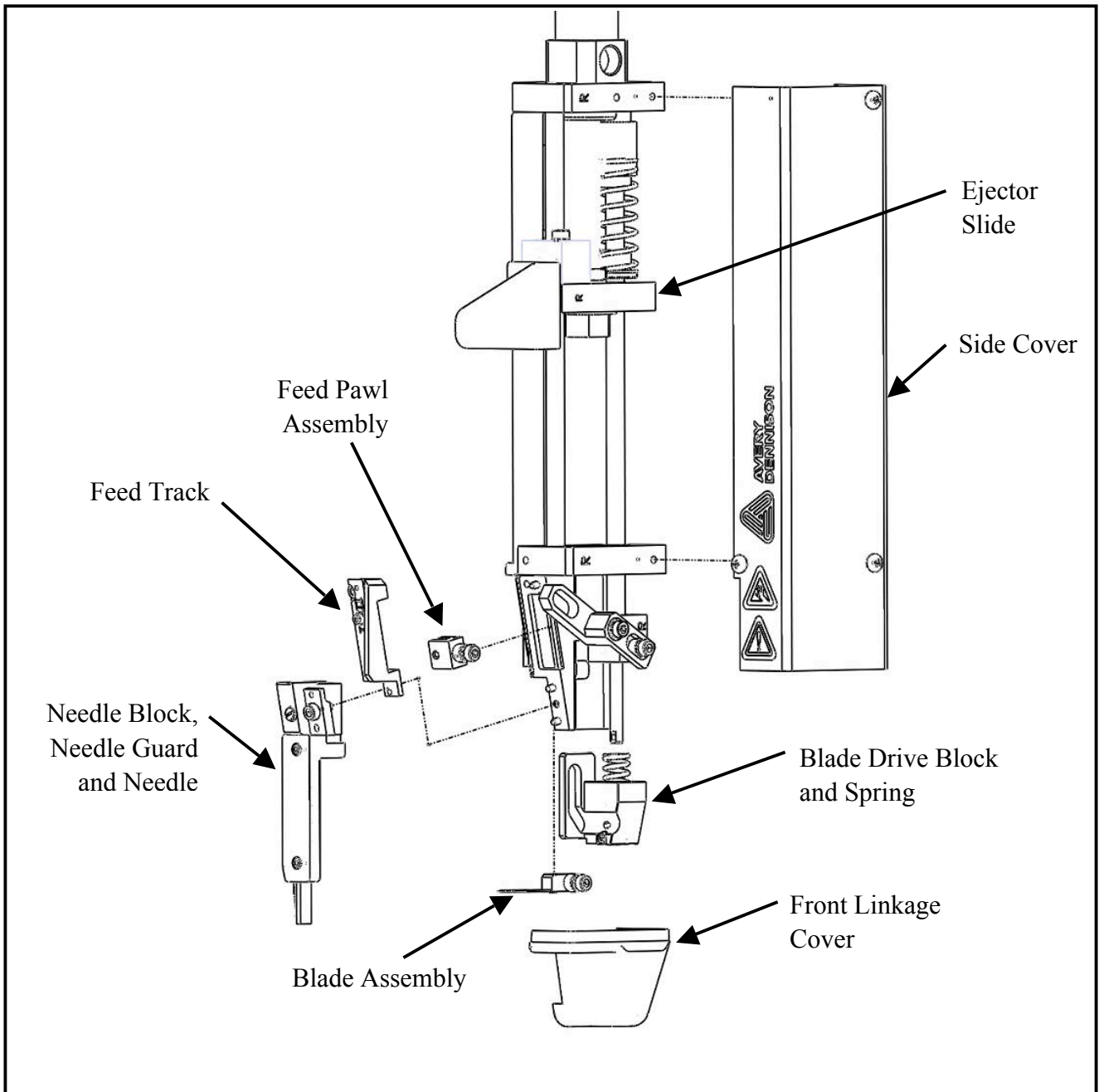


Lubrication- Accessing the lubrication areas

✓ See other sections of this manual for a full description of removing parts.

Turn OFF air supply

- Remove side cover and front linkage cover (Illustration shows Right Module)
- Remove needle block, needle guard and needle as an assembly
- Remove feed track and feed pawl assembly
- Remove blade drive block, spring and blade assembly
 - Push up on ejector slide to easily remove blade assembly

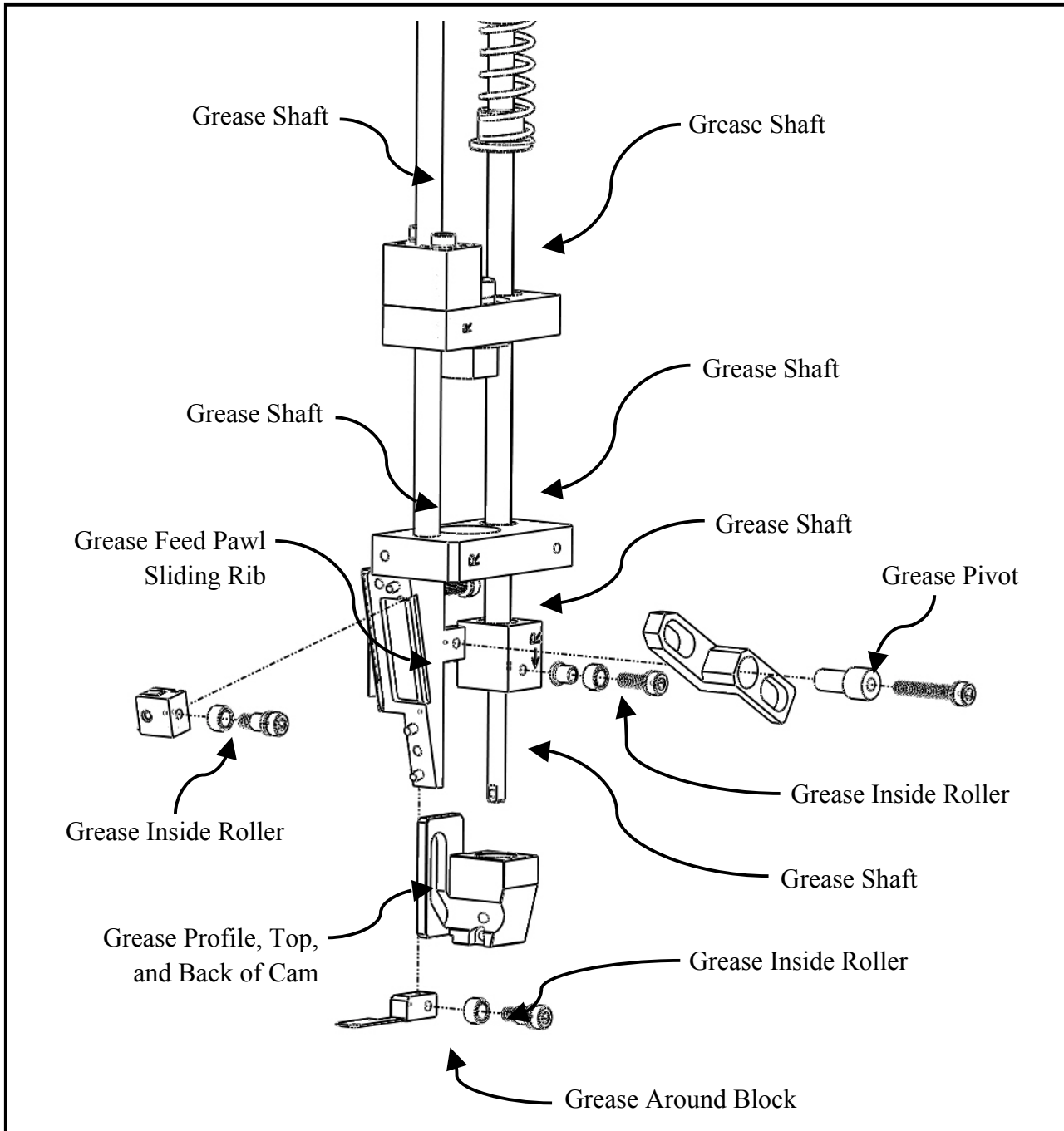


Lubrication- Applying the lubricant

- ✓ The IndES™ Machine is lubricated at the factory and should be re-lubricated at recommended intervals.
- ✓ Use only recommended lubrication.

Turn OFF air supply

1. Apply a light coating of lubricant to the areas indicated (Illustration shows Right Module)



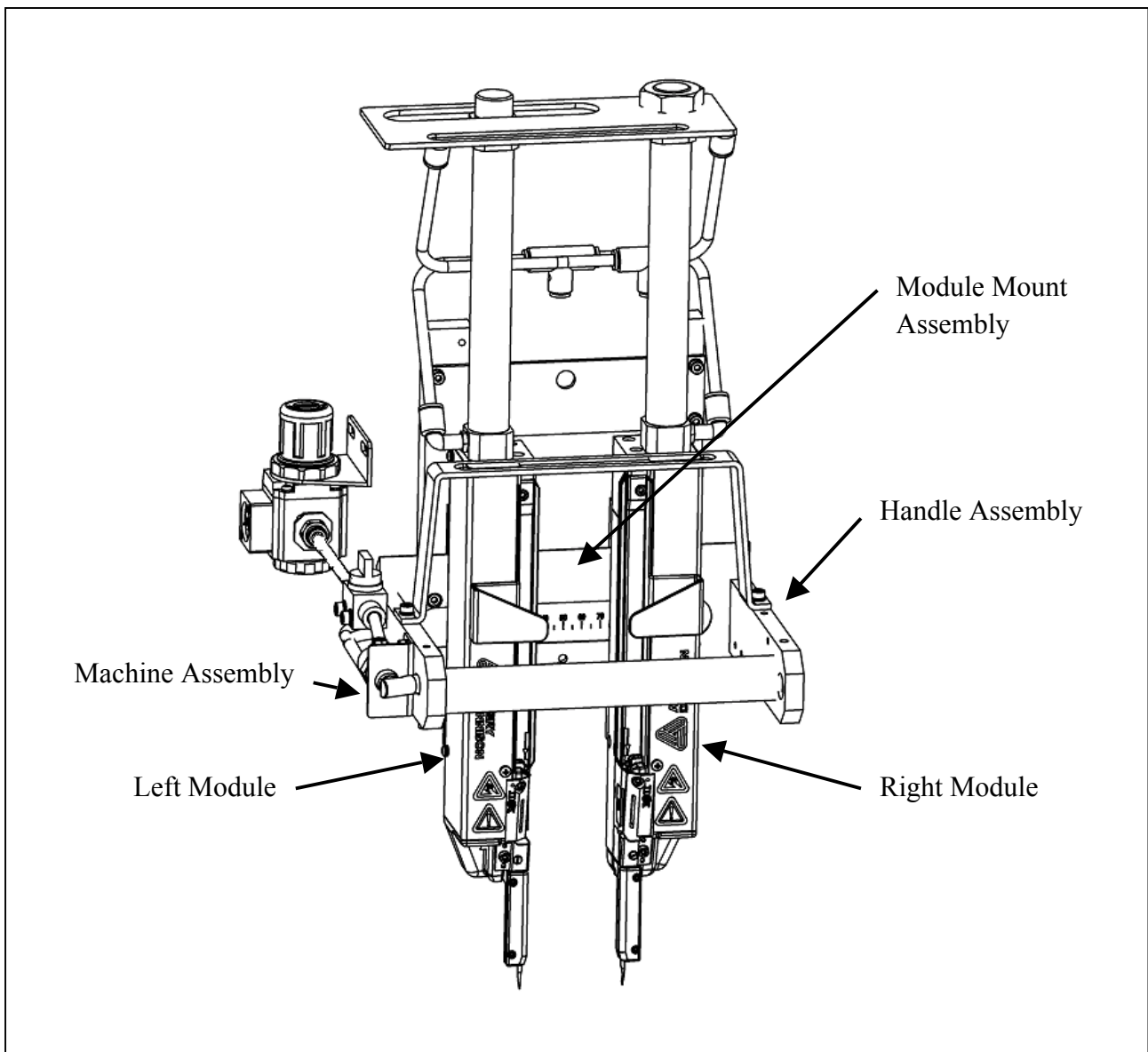
Troubleshooting

SYMPTOM	CAUSE	ACTION
Fastener breaking on insertion or Fastener not inserting correctly	Staple size too small	Use larger staple size
	Wrong needle spacing	Adjust needle spacing
	Wrong needle penetration	Check needle depth
	Worn Ejector Rod	Replace Ejector Rod
	Worn Needle	Replace Needle
	Card stock too tough	Add holes to card stock
Fastener not completely applied	Releasing trigger too soon	Hold trigger until fastener is completely applied
Fastener pulling out	Card stock too weak/thin	Change card stock
	Fastener pulling back through hole	Hold trigger down until needles are withdrawn from card
Fastener not feeding on one or both sides	Debris in fastener track	Clean fastener track
	Faulty mechanism	Call Service
Fastener jamming on one or both sides	Debris in fastener track	Clean fastener track
Fastener not cutting	Worn Knife	Replace Knife
	Worn Blade Drive Spring	Replace Blade Drive Spring
	Insufficient air pressure	Check air pressure

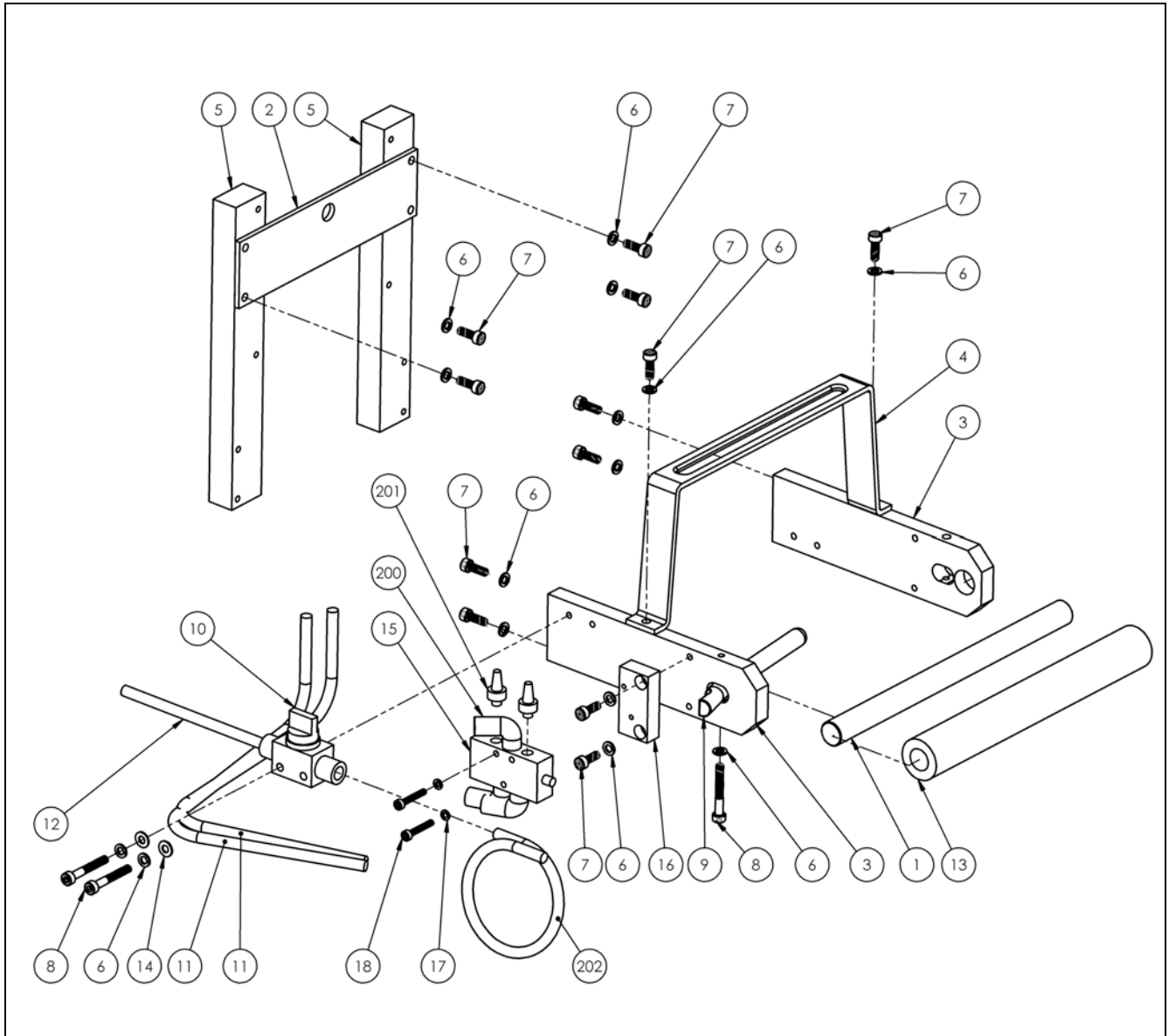
Chapter 7 Parts List & Diagrams

Overview

- ✓ The IndES™ Parts List is divided into the following components:
 - Handle Assembly
 - Module Mount Assembly
 - Machine Assembly
 - Right Module
 - Left Module



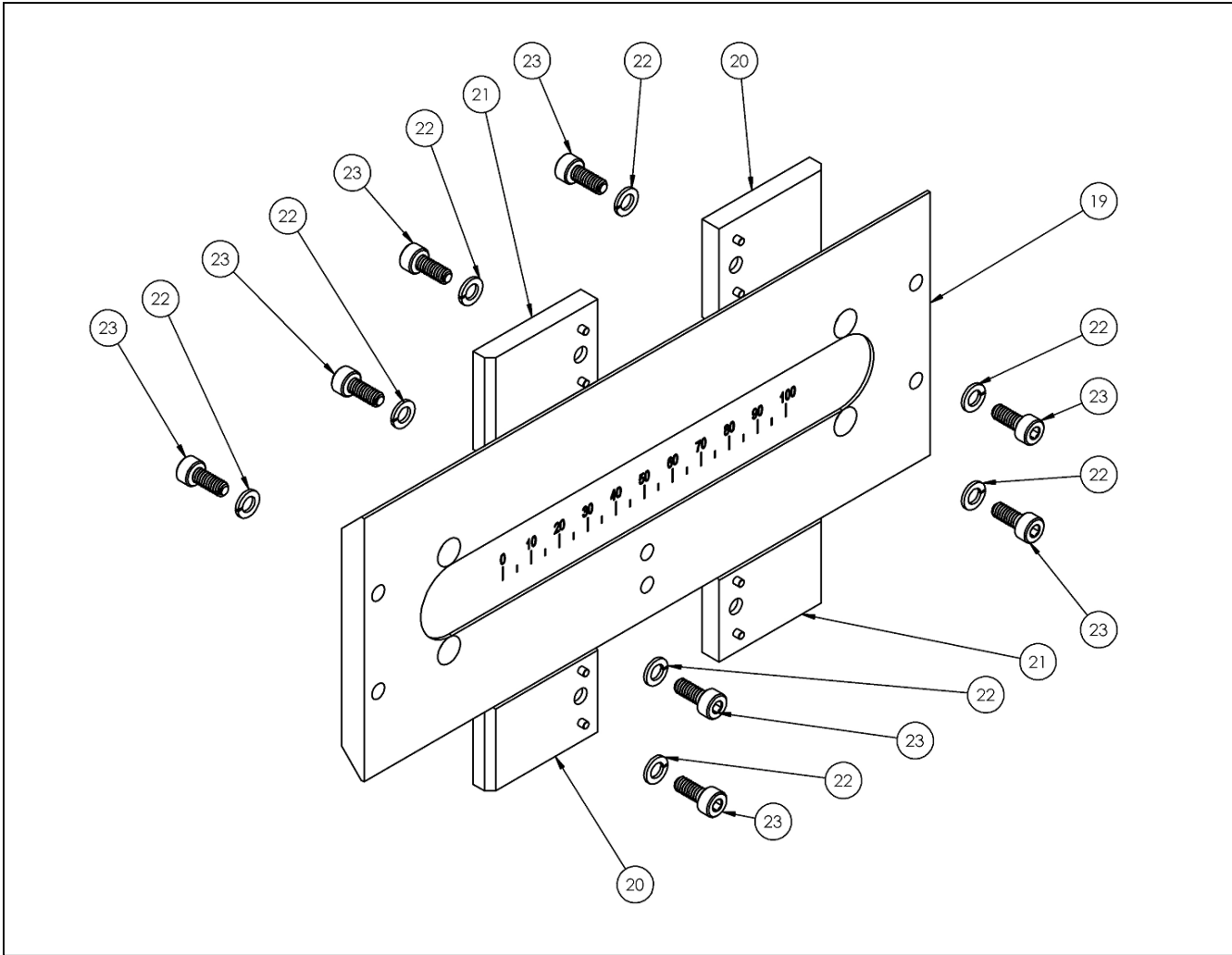
Handle Assembly



Handle Assembly

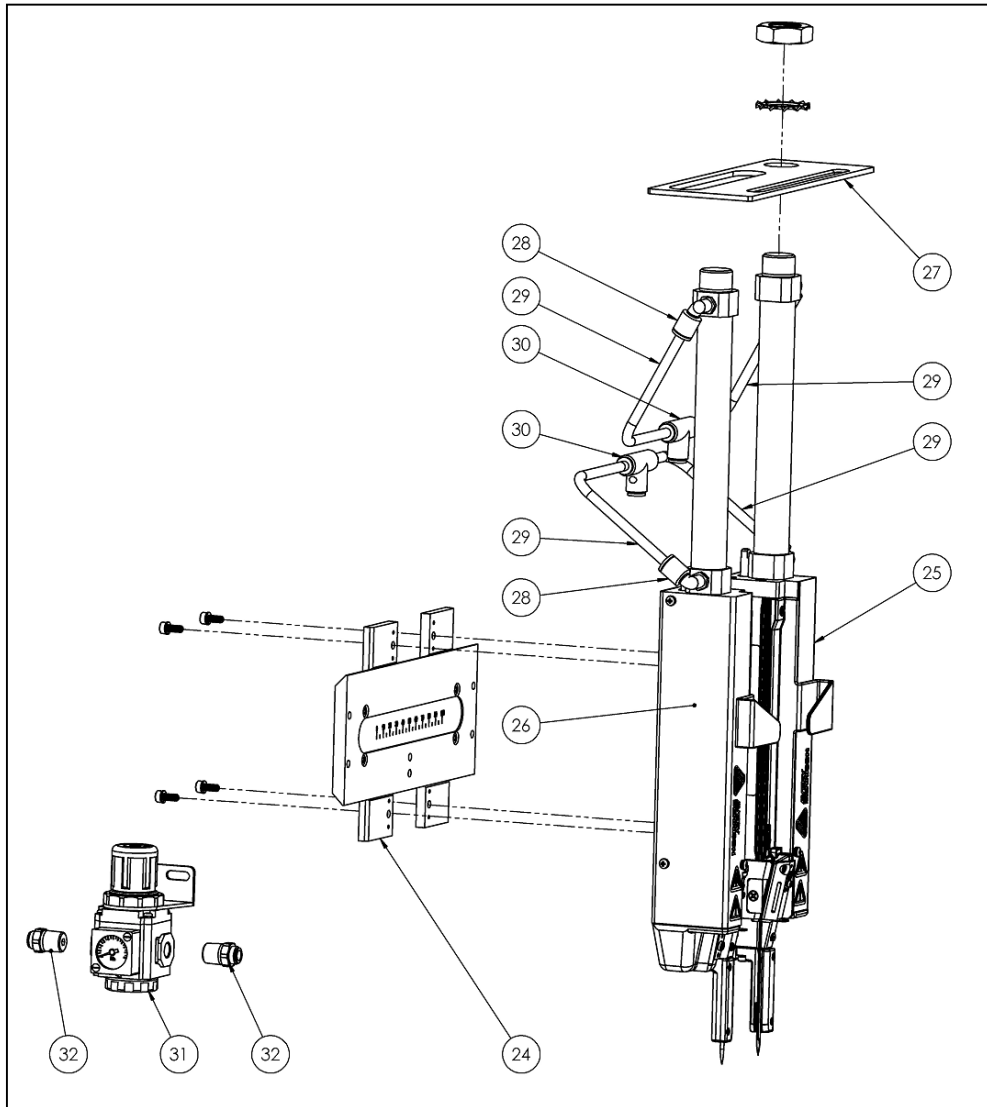
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	3-09-0047-01	IndES LMS Handle Grip Support	1
2	3-09-0044-01	IndES LMS Handle Base Plate	1
3	3-09-0046-01	IndES LMS Handle Extension	2
4	3-09-0050-01	IndES LMS Handle Upper Staple Guide	1
5	3-09-0051-01	IndES LMS Handle Module Adaptor	2
6	0-099-004-03	M4 Split Lockwasher	15
7	0-099-002-06	M4 x 12mm SHCS SS	12
8	0-099-002-10	M4 x 30mm SHCS SS	3
9	3-09-0055-01	IndES LMS Handle actuation lever	1
10	0-099-022-01	Air Shutoff Valve	1
11	0-099-018-02	6mm Tubing x 300mm long	2
12	0-099-018-04	6mm Tubing x 600mm	1
13	3-09-0048-01	IndES LMS Handle Foam Grip	1
14	0-099-011-03	M4 Flat Washer	2
15	0-099-024-01	Switch, Air	1
16	3-09-0081-01	Switch Mount	1
17	0-099-004-02	M3 Split Lockwasher	2
18	0-099-002-07	M3 x 20mm SHCS SS	2
200	0-099-020-02	Air Connector, 90 degree, M5	3
201	0-099-025-01	Air Muffler	2
202	0-099-018-03	6mm Tubing x 50mm long	1

Module Mount Assembly



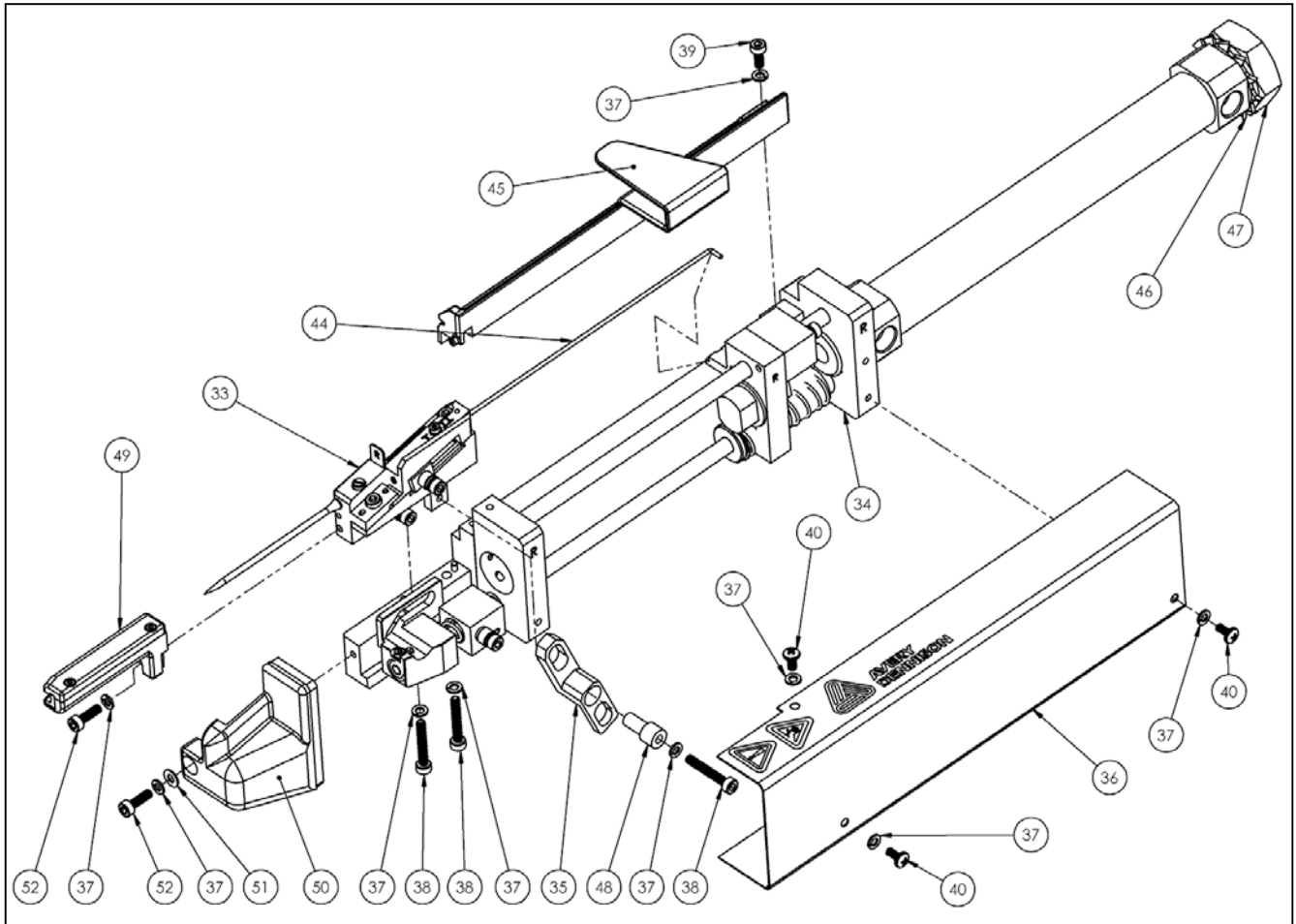
ITEM	PART NUMBER	DESCRIPTION	QTY.
19	3-09-0032-01	IndES Mounting Base Plate	1
20	3-10-0020-01	Sub-Assembly, Mounting Plate Slide	2
21	3-10-0020-02	Sub-Assembly, Mounting Plate Slide-LH	2
22	0-099-004-03	M4 Split Lockwasher	8
23	0-099-002-04	M4 x 10mm SHCS SS	8

Machine Assembly



ITEM	PART NUMBER	DESCRIPTION	QTY.
24	See Manual	Module Mount Assembly	1
25	See Manual	Right Module Assembly	1
26	See Manual	Left Module Assembly	1
27	3-09-0061-01	IndES LMS Handle Upper Staple Guide	1
28	0-099-020-01	Air Connector 6mm Tubing x 1/8"NPT x 90	4
29	0-099-018-01	6mm Tubing x 125mm long	4
30	0-099-021-01	Air Connector, 3-way, 6mm Tubing	2
31	0-099-015-01	Pressure Regulator	1
32	0-021-289-08	Air Fitting 1/8NPT Quick Connect	2

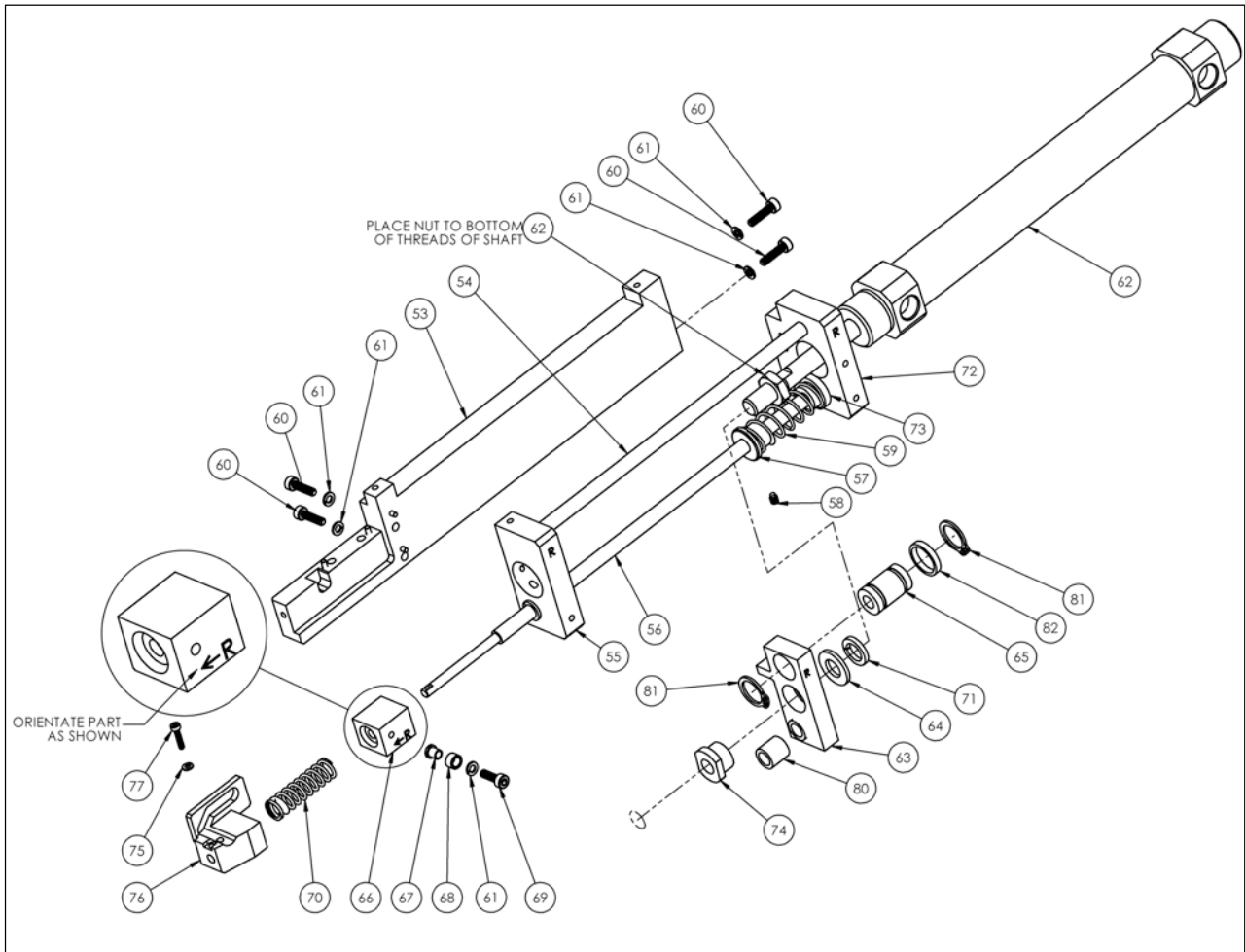
Right Module Assembly



Right Module Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
33	See Manual	Right Feed Assembly	1
34	See Manual	Right Drive Linkage Assembly	1
35	3-09-0018-01	IndES Feed Link	1
36	3-09-0034-01	IndES Module Cover-RH	1
37	0-099-004-02	M3 Split Lockwasher	9
38	0-099-002-07	M3 x 20mm SHCS SS	3
39	0-099-002-02	M3 x 8mm SHCS SS	1
40	0-099-007-01	M3 x 6mm Pan Hd.Cross Recess Drive	3
44	3-09-0056-01	IndES Ejector Rod	1
45	3-09-0024-01	IndES Feed Guide Base- RH	1
46	0-099-017-01	M20 Lockwasher, External Tooth	1
47	0-099-013-02	M20 Nut	1
48	3-09-0063-01	Feed Link Pivot	1
49	See Manual	Right Needle Guard Assembly	1
50	3-09-0068-01	IndES Front Linkage Cover-RH	1
51	0-099-011-02	M3 Flat Washer	1
52	0-099-002-01	M3 x 10mm SHCS SS	2

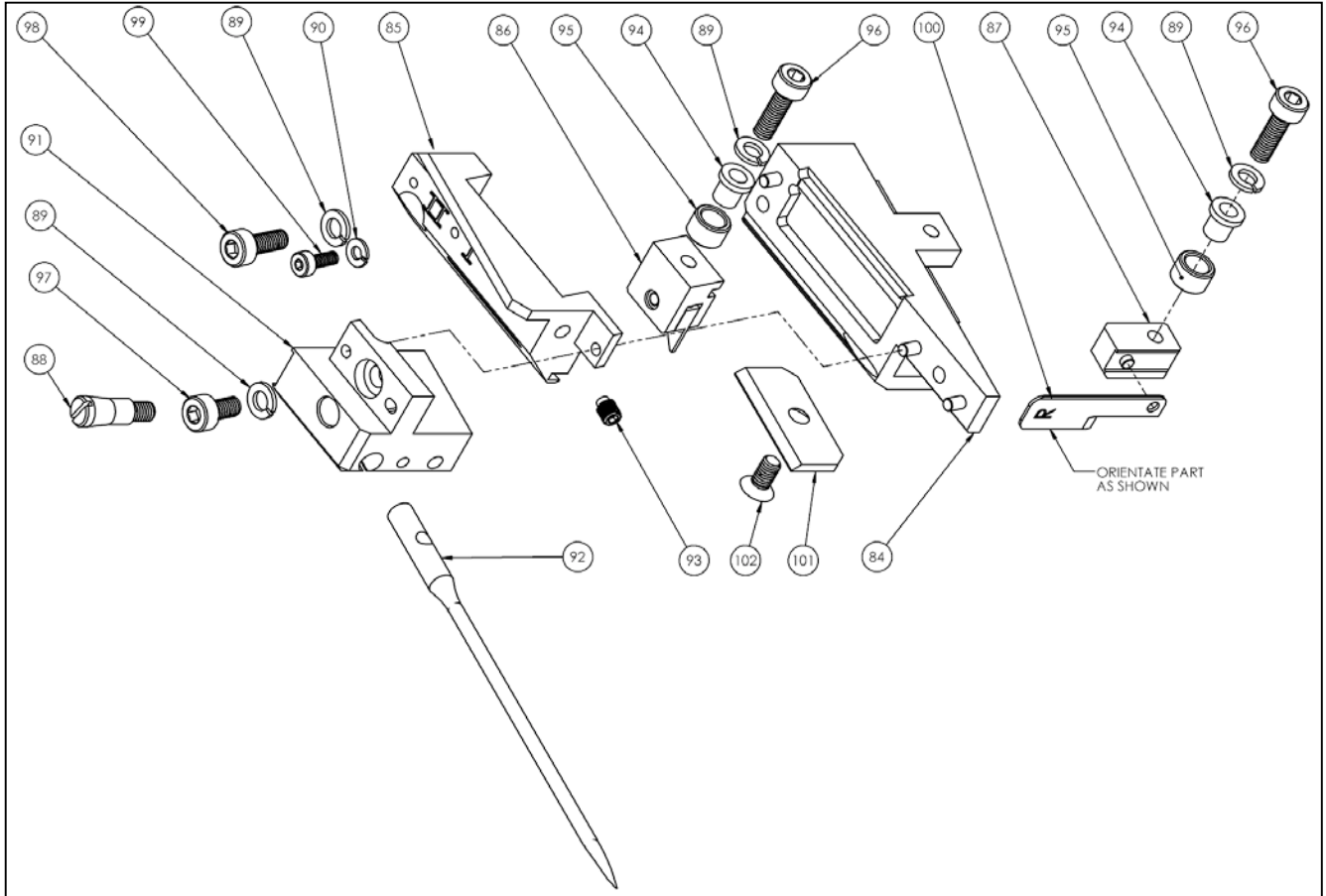
Right Drive Linkage Assembly



Right Drive Linkage Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
53	3-10-0018-01	Sub-Assy, IndES Main Chassis-RH	1
54	3-09-0016-01	IndES Ejector Slide Guide Shaft	1
55	3-10-0012-01	Sub-Assy IndES Shaft Mounting Plate	1
56	3-09-0015-01	IndES Feed and Cut Shaft	1
57	3-09-0022-01	IndES Flanged Stop	1
58	0-099-003-01	M3 x 4mm Locking Set Screw	1
59	0-099-005-03	Spring, Compression	1
60	0-099-002-12	M3 x 12mm SHCS SS	4
61	0-099-004-02	M3 Split Lockwasher	5
62	0-099-010-01	Indes, Air Cylinder	1
63	3-10-0011-01	Sub-Assy, IndES Ejector Rod Slide-RH	1
64	0-099-011-01	M8 Flat Washer	1
65	0-099-012-01	Linear Ball Bearing 6.0mm ID x 12.0mm OD x 19mm LG	1
66	3-10-0014-01	Sub-Assy, IndES Feed Link Drive Block-RH	1
67	3-09-0009-01	IndES Roller Bearing Standoff	1
68	3-09-0008-01	Roller	1
69	0-099-002-01	M3 x 10mm SHCS SS	1
70	0-099-005-06	Spring, Compression .36 x 1.25lg	1
71	0-099-004-04	M8 Split Lockwasher	1
72	3-09-0012-01	IndES Cylinder Mounting Block- RH	1
73	3-09-0060-01	Spring Spacer	1
74	3-09-0058-01	Indes Cylinder Spacer	1
75	0-099-004-01	M2 Split Lockwasher	1
76	3-09-0019-01	IndES Blade Drive Block-RH	1
77	0-099-002-11	M2 x 10mm SHCS SS	1
78	0-099-014-01	Bronze Bushing 6.0mm ID x 9.0mm OD x 10.0mm LG	1
79	0-099-014-02	Bronze Bushing 4.0mm ID x 8.0mm OD x 8.0mm LG	1
80	0-099-014-03	Bronze Bushing .25in ID x .38in OD x .50in LG	1
81	0-099-023-01	Retaining Ring 12mm shaft	2
82	3-09-0080-01	IndES Linear Bushing Spacer	1

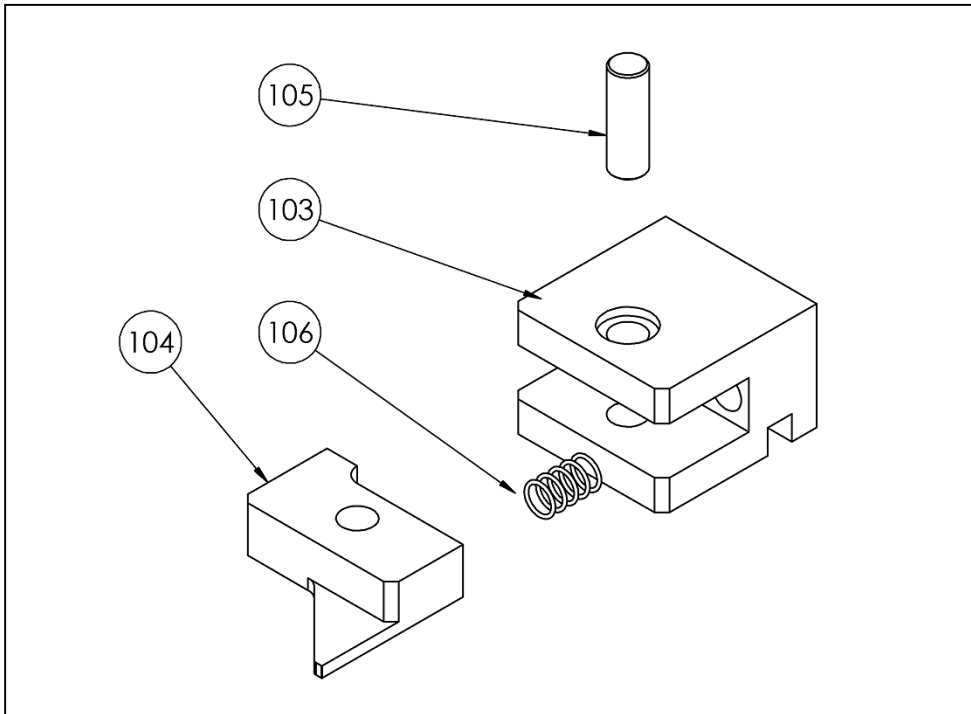
Right Feed Assembly



Right Feed Assembly

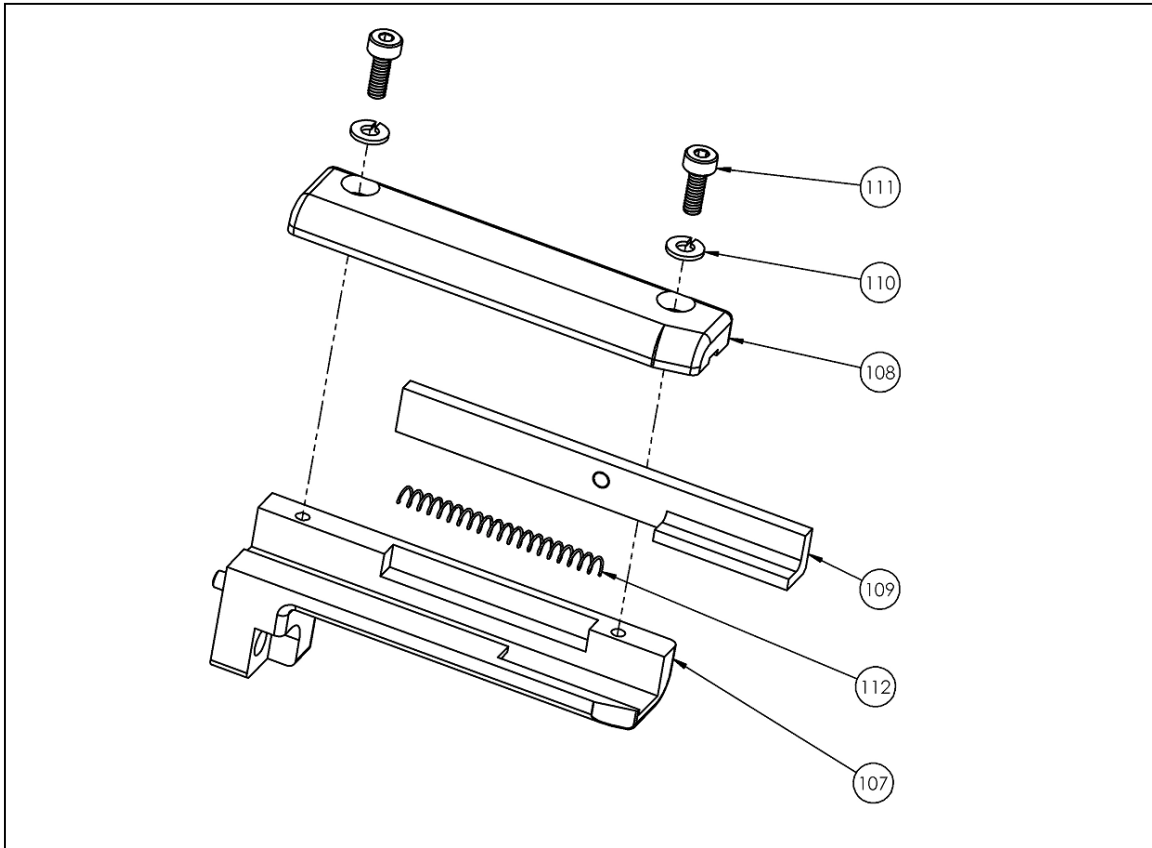
ITEM	PART NUMBER	DESCRIPTION	QTY.
84	3-10-0006-01	Sub-Assy, IndES Feed Pawl Slide	1
85	3-09-0002-01	IndES Feed Track	1
86	See Manual	Right Feed Pawl and Bracket	1
87	3-10-0008-01	Sub-Assy, IndES Blade Holder	1
88	SV0122-001	Needle Lock Screw	1
89	0-099-004-02	M3 Split Lockwasher	4
90	0-099-004-01	M2 Split Lockwasher	1
91	3-09-0003-01	IndES Needle Block	1
92	11618-0	Needle, Elastic Staple, Non-Tapered	1
92	11619-0	Needle, Elastic Staple, Tapered	1
93	0-099-003-01	M3 x 4mm Locking Set Screw	1
94	3-09-0009-01	Roller Standoff	2
95	3-09-0008-01	Roller	2
96	0-099-002-01	M3 x 10mm SHCS SS	2
97	0-099-002-13	M3 x 6mm SHCS	1
98	0-099-002-02	M3 x 8mm SHCS SS	1
99	0-099-002-03	M2 x 6mm SHCS SS	1
100	3-09-0023-01	Right IndES Blade	1
101	3-09-0026-01	Antiback Plate	1
102	0-099-016-01	M3 x 6mm Flat Head Phil Drive screw	1

Right Feed Pawl & Bracket



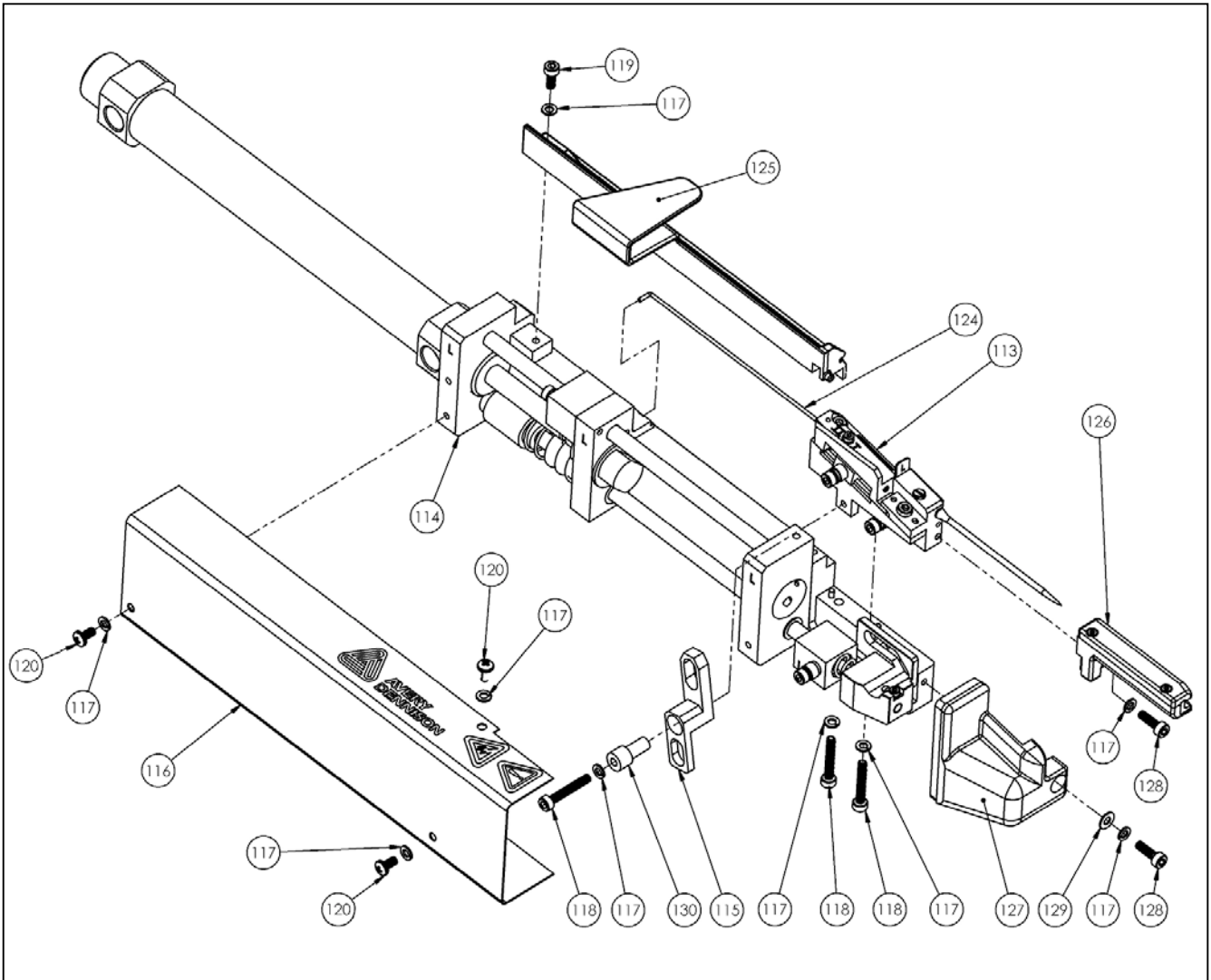
ITEM	PART NUMBER	DESCRIPTION	QTY.
103	3-09-0005-01	IndES Feed Pawl Bracket	1
104	3-09-0006-01	IndES Feed Pawl	1
105	0-099-001-03	2mm x 6mm Dowel Pin	1
106	0-099-005-01	Spring, Compression	1

Right Needle Guard



ITEM	PART NUMBER	DESCRIPTION	QTY.
107	3-10-0027-01	Sub-Assembly, Needle Guard Base-RH	1
108	3-09-0065-01	Needle Guard Cap-RH	1
109	3-10-0026-01	Sub-Assembly, Needle Guard Plunger-RH	1
110	0-099-004-01	M2 Lockwasher	2
111	0-099-002-03	M2 x 6mm SHCS SS	2
112	0-099-005-05	Spring, Compression	1

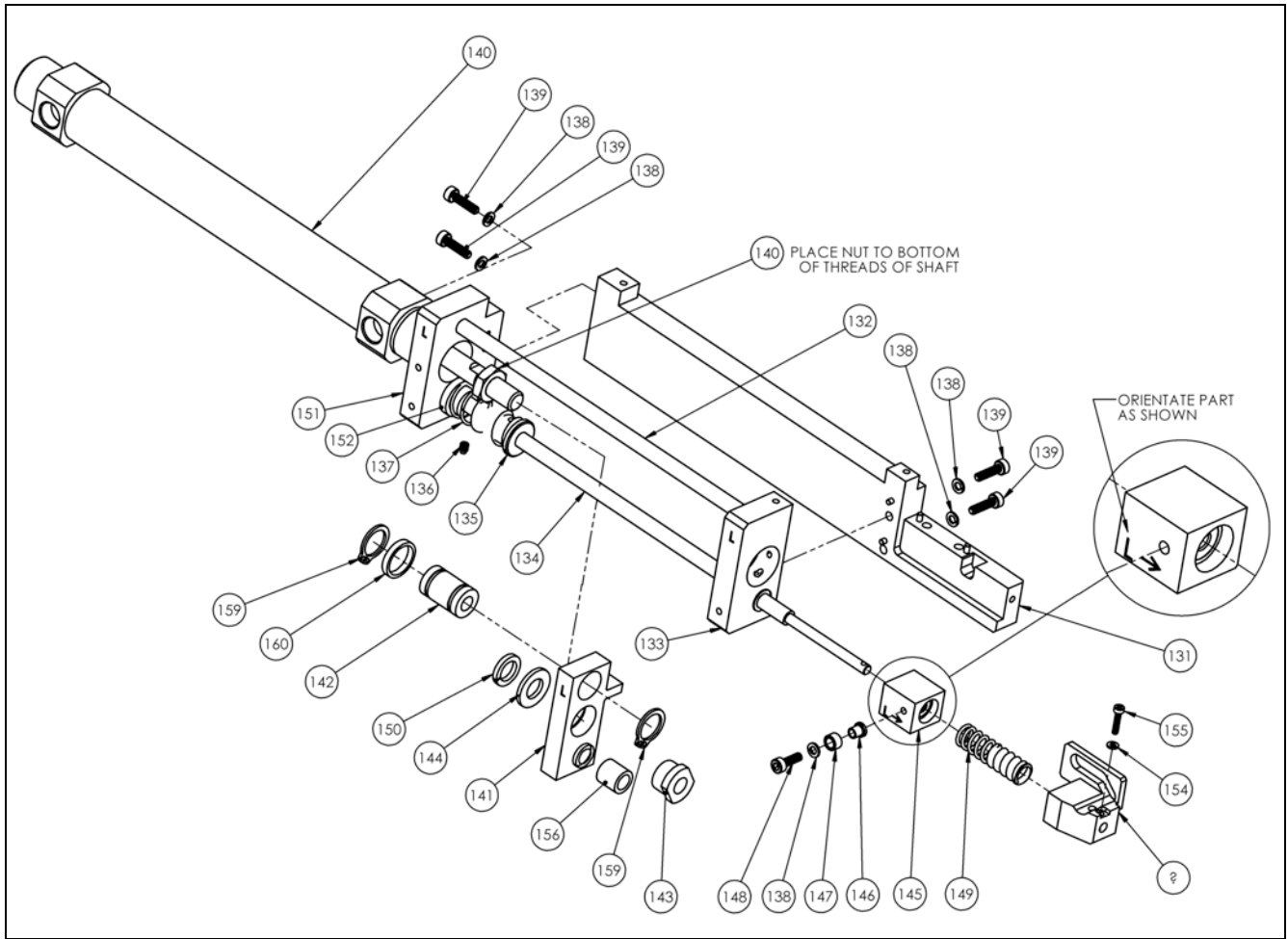
Left Module Assembly



Left Module Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
113	See Manual	Left Feed Assembly	1
114	See Manual	Left Drive Linkage Assembly	1
115	3-09-0018-01	IndES Feed Link	1
116	3-09-0034-02	IndES Module Cover-LH	1
117	0-099-004-02	M3 Split Lockwasher	9
118	0-099-002-07	M3 x 20mm SHCS SS	3
119	0-099-002-02	M3 x 8mm SHCS SS	1
120	0-099-007-01	M3 x 6mm Pan Hd.Cross Recess Drive	3
124	3-09-0056-01	IndES Ejector Rod	1
125	3-09-0024-02	IndES Feed Guide Base-LH	1
126	See Manual	Left Needle Guard Assembly	1
127	3-09-0068-02	IndES Front Linkage Cover-LH	1
128	0-099-002-01	M3 x 10mm SHCS SS	2
129	0-099-011-02	M3 Flat Washer	1
130	3-09-0063-01	Feed Link Pivot	1

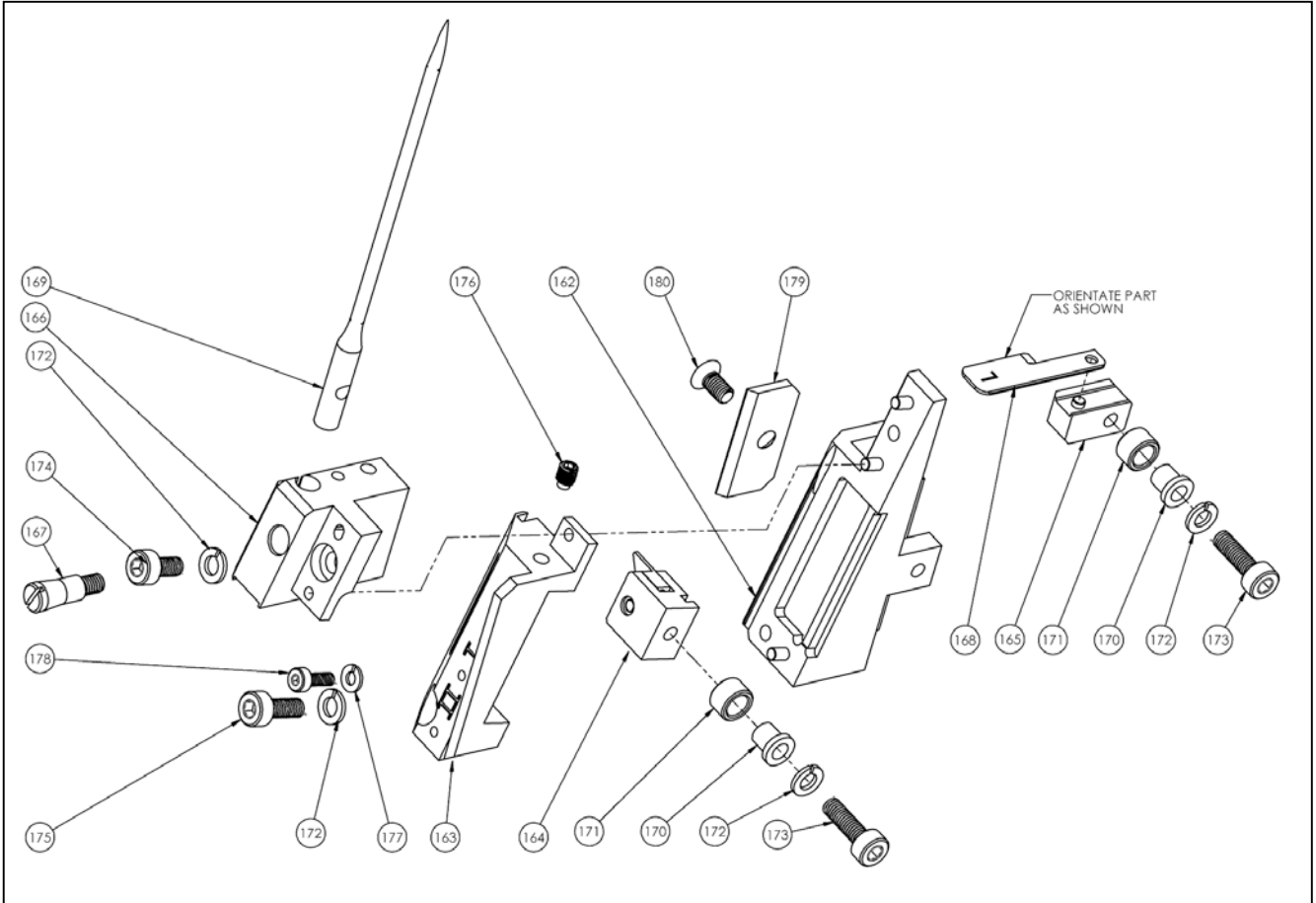
Left Drive Linkage Assembly



Left Drive Linkage Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
131	3-10-0018-02	Sub-Assy, IndES Main Chassis-LH	1
132	3-09-0016-01	IndES Ejector Slide Guide Shaft	1
133	3-10-0012-02	Sub-Assy, IndES Shaft Mounting Plate	1
134	3-09-0015-01	IndES Feed and Cut Shaft	1
135	3-09-0022-01	IndES Flanged Stop	1
136	0-099-003-01	M3 x 4mm Locking Set Screw	1
137	0-099-005-03	Spring, Compression	1
138	0-099-004-02	M3 Split Lockwasher	5
139	0-099-002-12	M3 x 12mm SHCS SS	4
140	0-099-010-01	Indes, Air Cylinder	1
141	3-10-0011-02	Sub-Assy, IndES Ejector Rod Slide-LH	1
142	0-099-012-01	Linear Ball Bearing 6.0mm ID x 12.0mm OD x 19mm LG	1
143	3-09-0058-01	Indes Cylinder Spacer	1
144	0-099-011-01	M8 Flat Washer	1
145	3-10-0014-02	Sub-Assy, IndES Feed Link Drive Block-LH	1
146	3-09-0009-01	Roller Standoff	1
147	3-09-0008-01	Roller	1
148	0-099-002-01	M3 x 10mm SHCS SS	1
149	0-099-005-06	Spring, Compression .36 x 1.25lg	1
150	0-099-004-04	M8 Split Lockwasher	1
151	3-09-0012-02	IndES Cylinder Mounting Plate- LH	1
152	3-09-0060-01	Spring Spacer	1
153	3-09-0019-02	IndES Blade Drive Block-LH	1
154	0-099-004-01	M2 Split Lockwasher	1
155	0-099-002-11	M2 x 10mm SHCS SS	1
156	0-099-014-03	Bronze Bushing .25in ID x .38in OD x .50in LG	1
157	0-099-014-01	Bronze Bushing 6.0mm ID x 9.0mm OD x 10.0mm LG	1
158	0-099-014-02	Bronze Bushing 4.0mm ID x 8.0mm OD x 8.0mm LG	1
159	0-099-023-01	Retaining Ring 12mm shaft	2
160	3-09-0080-01	IndES Linear Bushing Spacer	1

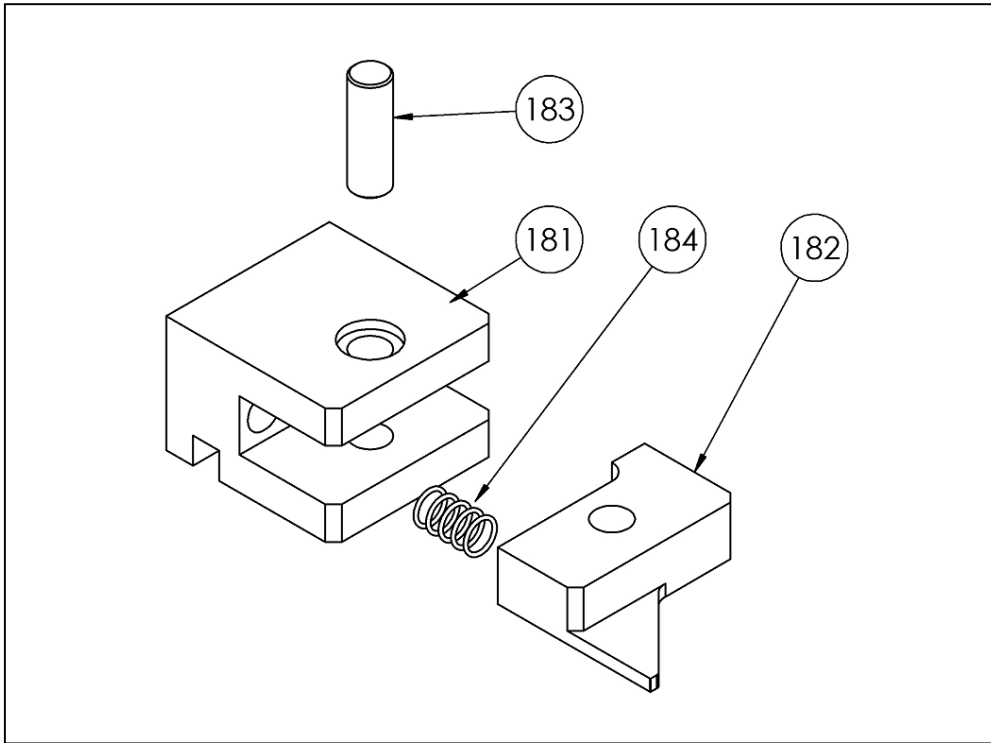
Left Feed Assembly



Left Feed Assembly

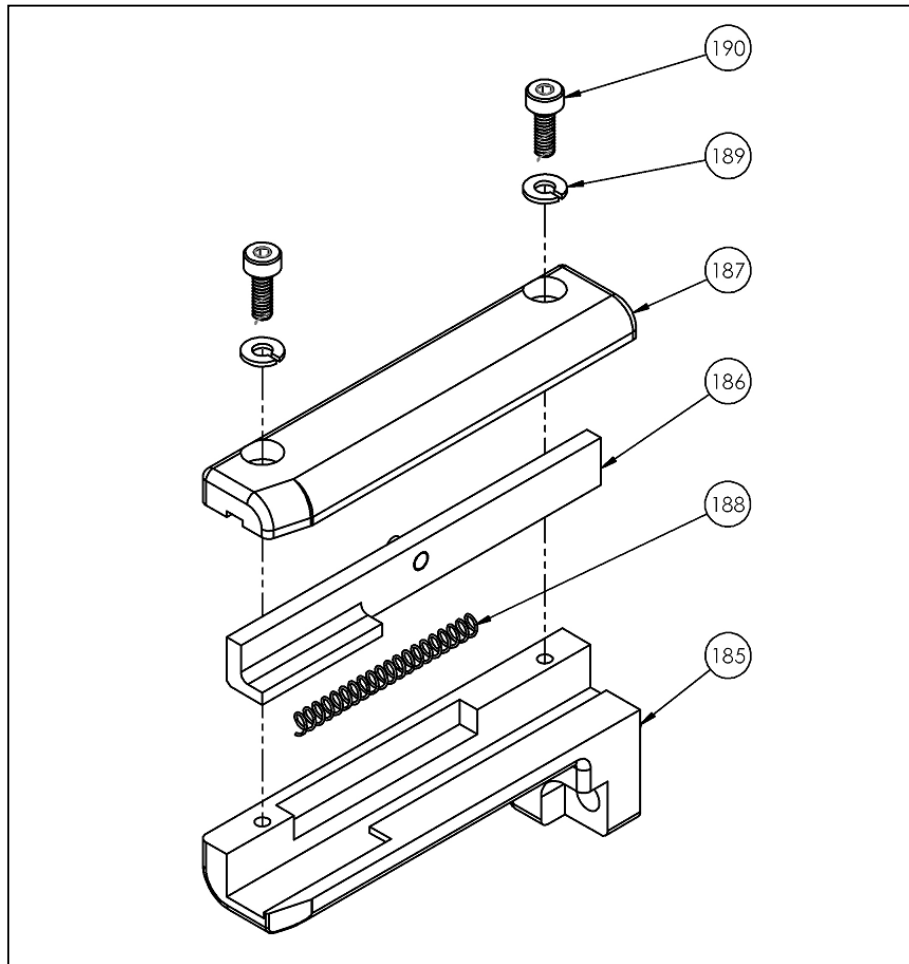
ITEM	PART NUMBER	DESCRIPTION	QTY.
162	3-10-0006-02	Sub-Assy, IndES Feed Pawl Slide-LH	1
163	3-09-0002-02	IndES Feed Track-LH	1
164	See Manual	Left Feed Pawl and Bracket	1
165	3-10-0008-02	Sub-Assy, IndES Blade Holder	1
166	3-09-0003-02	IndES Needle Block-LH	1
167	SV0122-001	Needle Lock Screw	1
168	3-09-0023-02	IndES Blade-LH	1
169	11618-0	Needle, Elastic Staple, Non-Tapered	1
169	11619-0	Needle, Elastic Staple, Tapered	1
170	3-09-0009-01	Roller Standoff	2
171	3-09-0008-01	Roller	2
172	0-099-004-02	M3 Split Lockwasher	4
173	0-099-002-01	M3 x 10mm SHCS SS	2
174	0-099-002-13	M3 x 6mm SHCS	1
175	0-099-002-02	M3 x 8mm SHCS SS	1
176	0-099-003-01	M3 x 4mm Locking Set Screw	1
177	0-099-004-01	M2 Split Lockwasher	1
178	0-099-002-03	M2 x 6mm SHCS SS	1
179	3-09-0026-01	Antiback Plate	1
180	0-099-016-01	M3 x 6mm Flat Head Phil Drive screw	1

Left Feed Pawl & Bracket



ITEM	PART NUMBER	DESCRIPTION	QTY.
181	3-09-0005-01	IndES Feed Pawl Bracket	1
182	3-09-0006-02	IndES Feed Pawl-LH	1
183	0-099-001-03	2mm x 6mm Dowel Pin	1
184	0-099-005-01	Spring, Compression	1

Left Needle Guard



ITEM	PART NUMBER	DESCRIPTION	QTY.
185	3-10-0027-02	Sub-Assembly, Needle Guard Base-LH	1
186	3-10-0026-02	Sub-Assembly, Needle Guard Plunger-LH	1
187	3-09-0065-02	Needle Guard Cap-LH	1
188	0-099-005-05	Spring, Compression	1
189	0-099-004-01	M2 Lockwasher	2
190	0-099-002-03	M2 x 6mm SHCS SS	2

Chapter 8

Worldwide Locations

AMERICAS

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