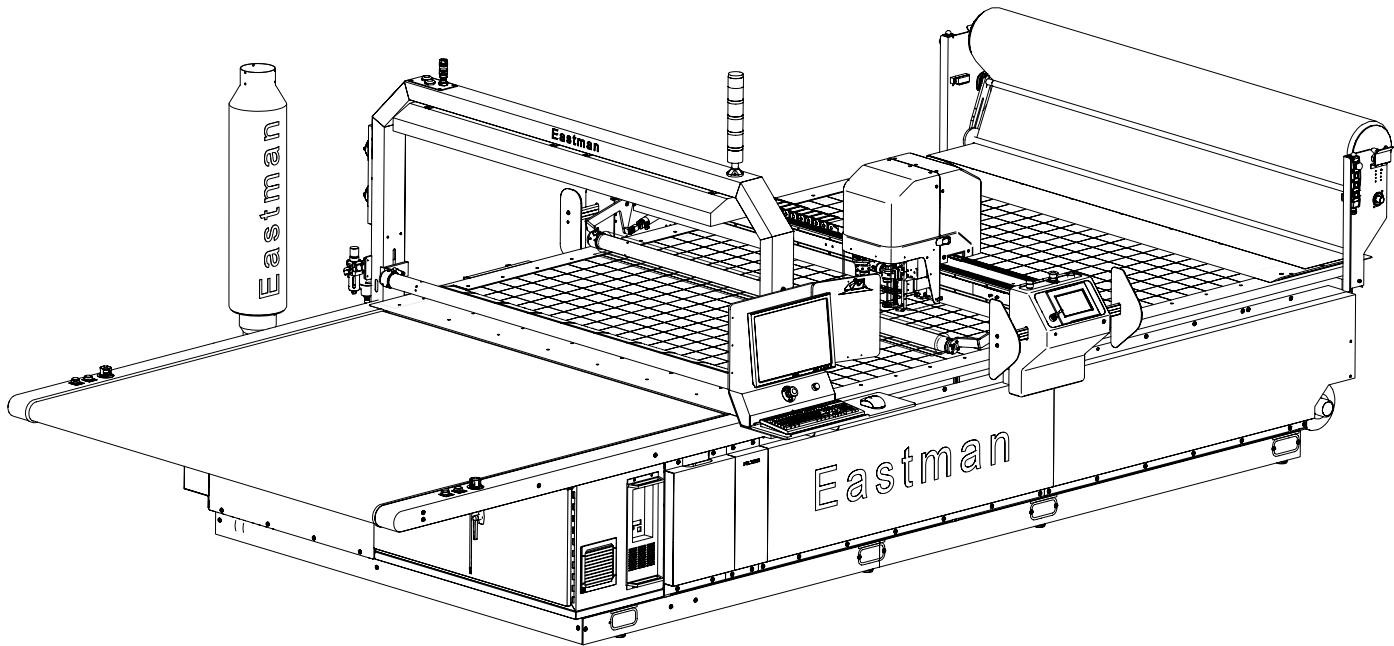


Eastman®

THE EASTMAN® Raptor

Illustrated Parts List

Please read completely before attempting
to operate your new **Raptor**.



WARNING

This machine is equipped with a very sharp knife. Keep hands, arms, and hair away from the knife area at all times.

Misuse of this machine or failure to follow all safety instructions on this machine and in the instruction manual may result in serious personal injuries.

Technical Support:
1-800-872-5595

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779 Washington St., Buffalo, N.Y. 14203-1396 U.S.A. • (716)856-2200 • Fax (716)856-1140 or (716)856-2068
Manufacturers of Eastman Cloth Cutting and Cloth Spreading Machines

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IMPORTANT

The purchaser must instruct all operators on the proper use of this equipment. All standard industrial safety measures and equipment should be provided to protect the operator. Operators must be cautioned that improper or careless use of this equipment may cause personal injury. If you do not have qualified operators to instruct new persons, contact your EASTMAN sales representative or EASTMAN factory direct.

Electrical connections and servicing to this equipment should be made by a qualified electrician who is familiar with applicable codes and regulations. Disconnect this equipment from electrical power source before proceeding with any disassembly for adjustment or repair.

Safety Information

Throughout this manual, safety information is presented by the use of the terms WARNING, CAUTION, ELECTRICAL HAZARD, and NOTE. These terms have the following meanings:

WARNING

A warning contains critical information regarding potential safety hazards that can occur during proper use or misuse of the machine. Failure to follow these procedures may result in serious personal injury to the user.

CAUTION

A caution contains instructions for the use or maintenance of the machine. Failure to follow these procedures may result in damage to the machine.

ELECTRICAL HAZARD

An electrical hazard calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in personal injury. Do not proceed beyond an Electrical Hazard.

General Safety Precautions

WARNING

- This machine is equipped with very sharp and dangerous tools. Keep hands, arms, and hair away from the cutting area and drive system at all times. Safety gloves, glasses, and appropriate clothing may prevent serious personal injuries.
- Disconnect the power supply to the machine when it is not in use or during routine maintenance, including cleaning and lubrication.
- The purchaser must instruct all operators in the proper use of the machine according to the instructions in this manual. This training must include instruction on the potential safety hazards arising from the use or misuse of the machine. In addition to such training, the purchaser should provide written work instructions as necessary to ensure correct use of the machine for specific cutting and spreading applications.

Safety and Indemnification

During the life of the machine, the purchaser agrees to provide to all machine users (including its own employees and independent contractors) all relevant safety information, including warning labels and instruction manuals. The purchaser also agrees to maintain the safety features and working condition of the machine, and to adequately train all users in the safe use and maintenance of the machine. The purchaser agrees to defend, protect, indemnify, and hold Eastman Machine Company and its subsidiaries harmless from and against all claims, losses, expenses, damages, and liabilities to the extent that they have been caused by the purchaser's failure to comply with the terms and instructions of this manual.

- Do not modify this machine or disable safety features. Unauthorized modification may result in serious personal injuries to the user. Electrical connections to this machine must be made by a qualified electrician familiar with applicable codes and regulations.
- Safety labels must be kept clean and legible at all times. Call the Eastman Machine factory to order replacement labels.

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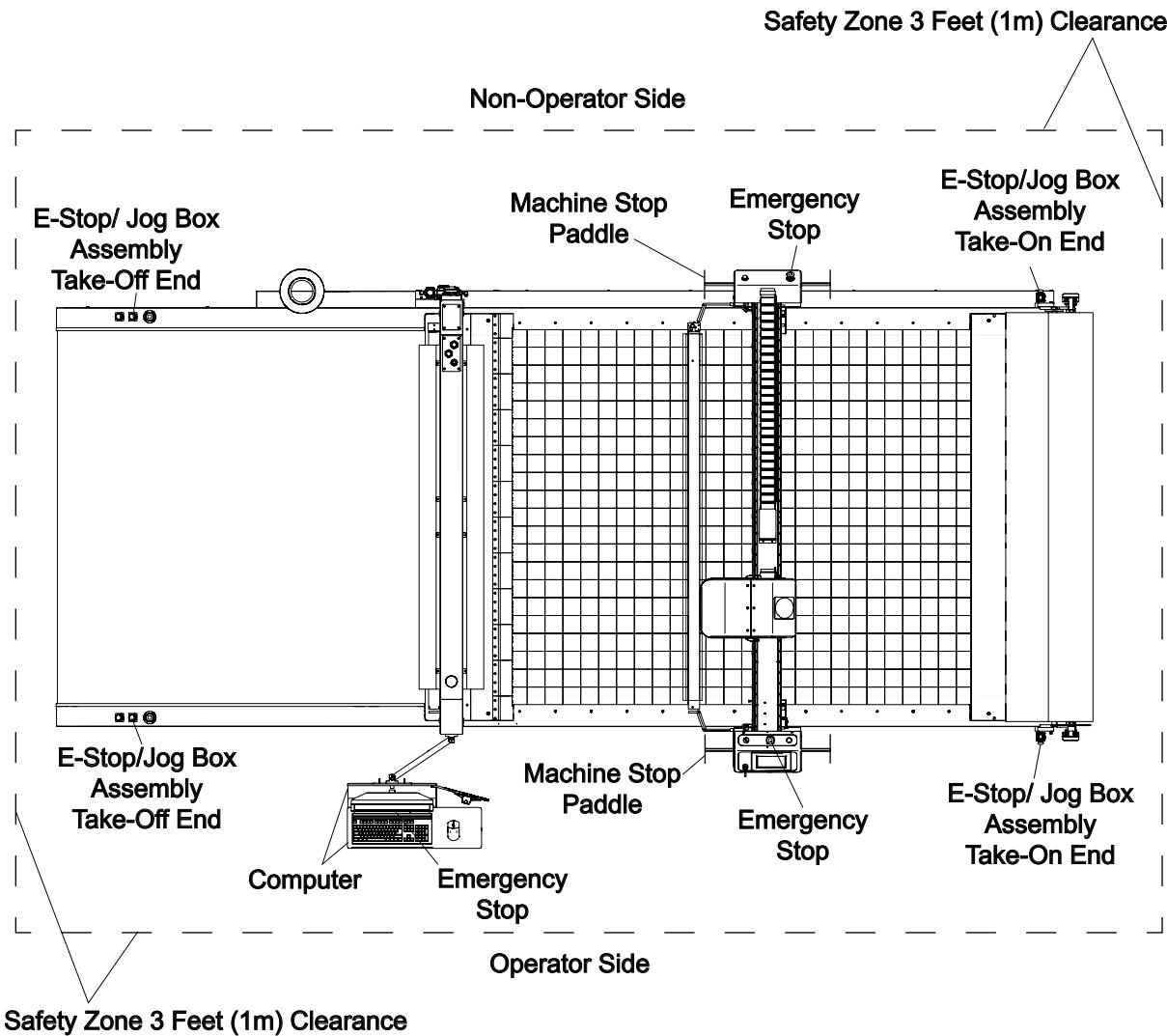
SAFETY ZONES AND STOP DEVICES

Pause Buttons/Stop Paddles

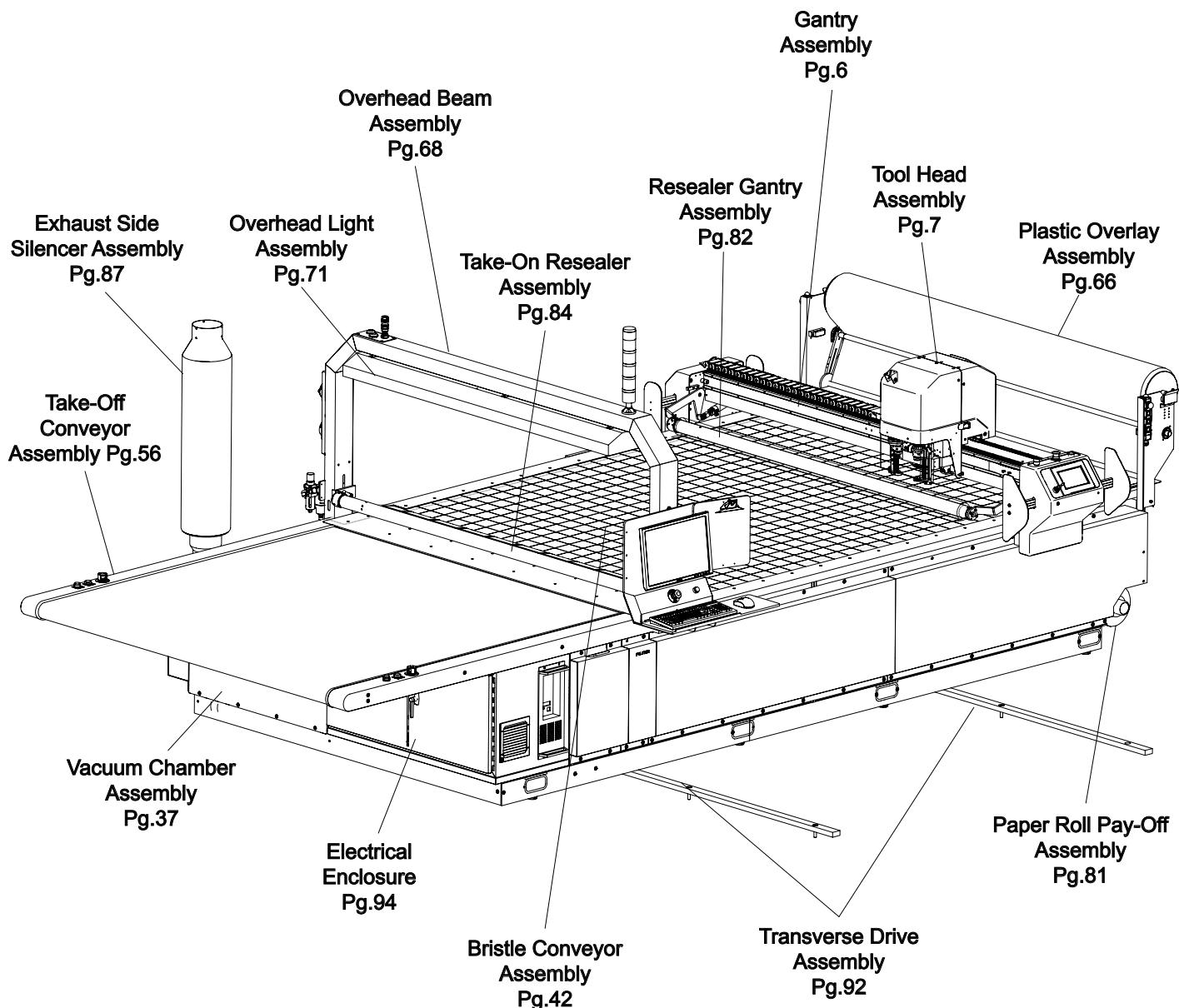
The yellow buttons above the control panel and on the non-operator side of the gantry as well as the stop paddles on each side of the gantry will pause the machine. Activating either the button or the stop paddles will execute a controlled stop of the plotter, with the machine remaining fully powered. After releasing the pause button or resetting the stop paddles and pressing NEXT on the UIT keypad, the cutter will resume cutting the work in progress. Pressing ABORT will cancel the job.

Emergency Stop Buttons

There are red Emergency Stop buttons located on each side of the gantry as well as on the operator side right and left ends of the table. Pressing any of the Emergency Stop buttons will execute a controlled stop of the gantry before cutting all power to the motors and e-box. To release an Emergency Stop condition, pull out the Stop button hit the ABORT key on the UIT keypad. The table must be re-homed by pressing the ZERO TABLE button before restarting the cutter. Emergency stop mats are also available as an option.



Raptor Familiarization



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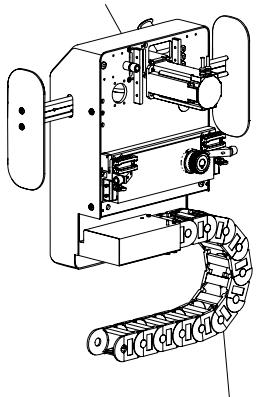
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Gantry Familiarization

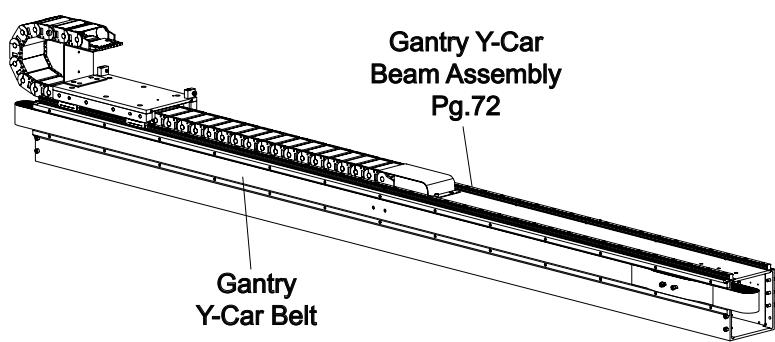
68-26591

| GANTRY CABLES | |
|----------------|---------------------------------|
| 31-26363-4 | Synqnet Network Cable |
| 31-27185-KNIFE | Raptor Y-Axis Knife Motor Cable |
| 31-27185-THETA | Raptor Y-Axis Theta Motor Cable |
| 31-27204 | Raptor Y-Axis Laser Cable |
| 31-27205 | Raptor Y-Axis Door Cable |
| 31-27206 | Raptor Y-Axis 24VDC Fan Cable |
| 31-27207 | Raptor Y-Axis Theta Home Cable |
| 31-27208 | Raptor Y-Axis Intellicut Cable |
| 31-27267 | Raptor Y-Axis Air Reg. Cable |
| 31-27237-114 | Ribbon Cable For Gantry, Output |
| 31-27238-114 | Ribbon Cable For Gantry, Input |

Gantry Non-
Operator Side
Assembly Pg.76



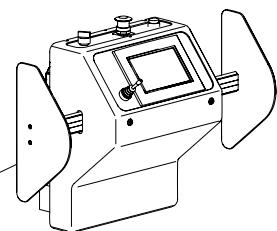
X-Axis E-Chain
Assembly
68-26563



Gantry Y-Car
Beam Assembly
Pg.72

Gantry
Y-Car Belt

Gantry Operator
Side Assembly
Pg.74

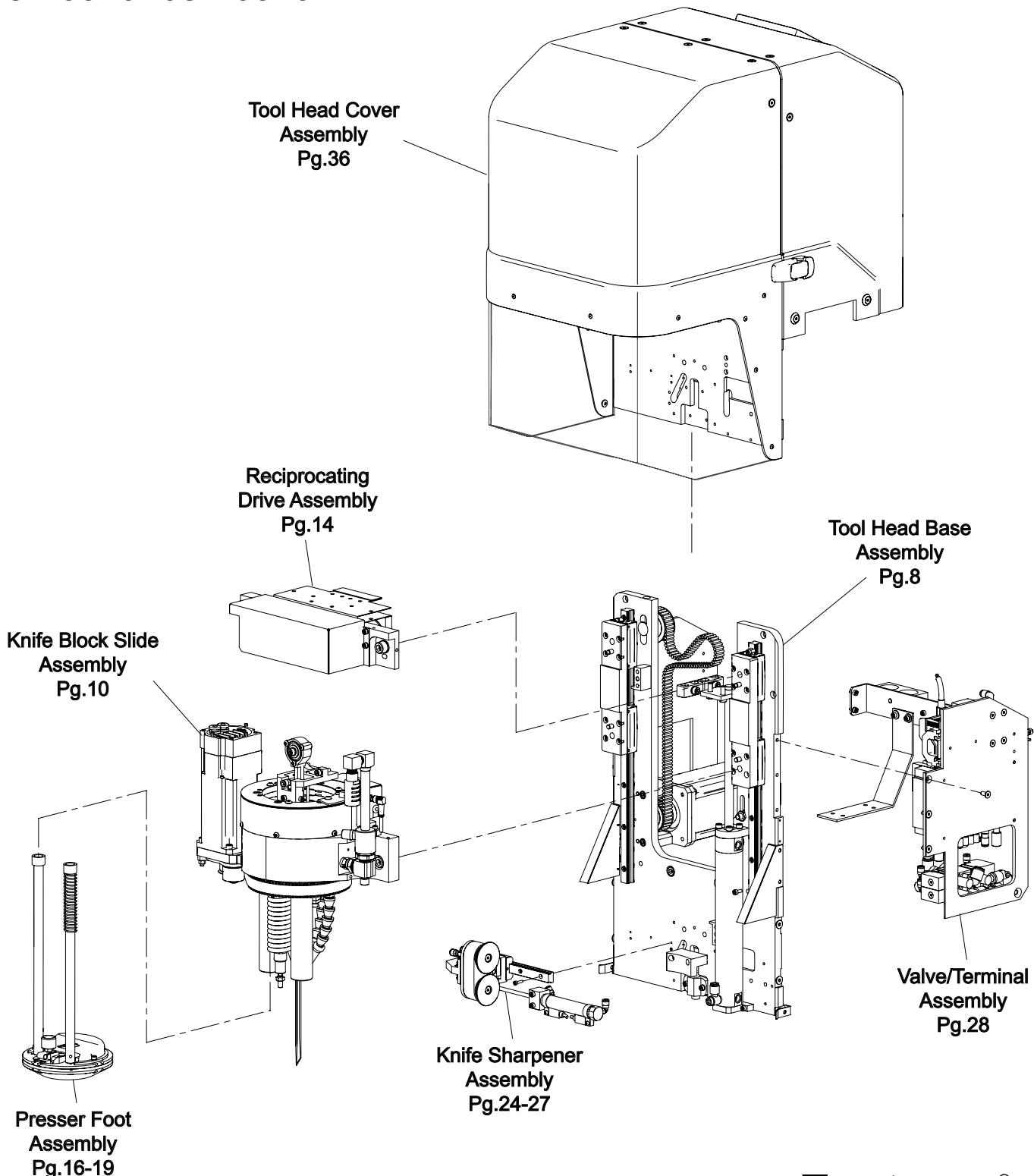


X-AXIS E-CHAIN CABLES

| | |
|----------------|---------------------------------|
| 31-26873-35 | Network Cable Slice I/O |
| 31-27184-KNIFE | Raptor X-Axis Knife Motor Cable |
| 31-27184-THETA | Raptor X-Axis Theta Motor Cable |
| 31-27184-X1 | Raptor X-Axis X1 Motor Cable |
| 31-27184-X2 | Raptor X-Axis X2 Motor Cable |
| 31-27184-Y | Raptor X-Axis Y Motor Cable |
| 31-26872-35 | UIT Network Cable |
| 31-27141-25 | DB25 M/F Cable |

Tool Head Familiarization

68-26570/ 68-26570-1



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Raptor Toolhead Base Assembly

68-26588

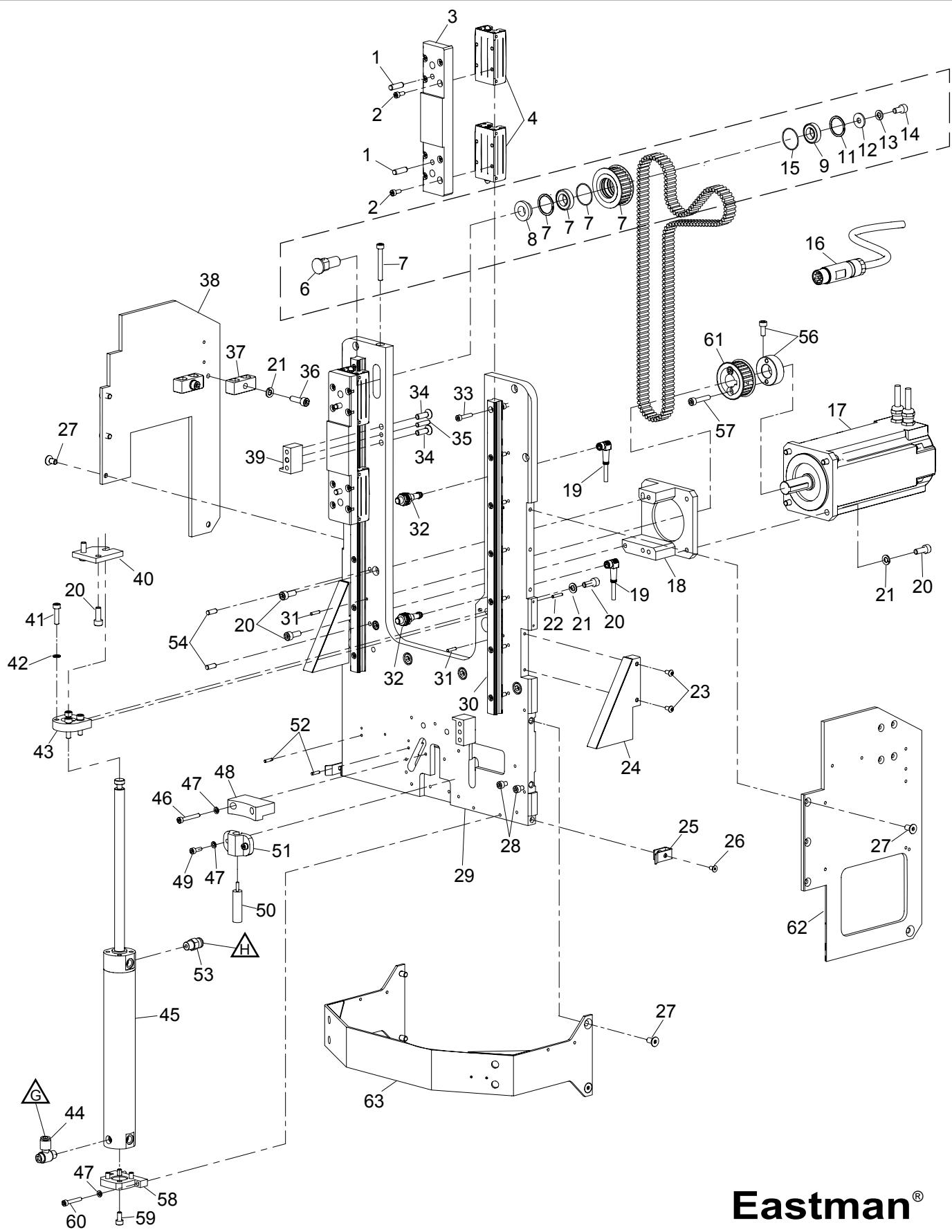
| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|--------------|------------------------------|------|
| 1 | 532-M6-20 | Pin, Dowel M6 X 20 | 4 |
| 2 | 335-M4-10 | Screw,Skt.Hd. M4-.7 X 10 | 16 |
| 3 | 54-28363 | Lm Bearing Mtg Bar | 2 |
| 4 | 67-27015 | Caged Bearing Block | 4 |
| 5 | 68-26580-1 | Belt Tensioner Assy | 1 |
| 6 | 54-28396 | Pulley Tension Shaft | 1 |
| 7 | 335-M5-50 | Screw,Skt.Hd. M5-.8 X 50 | 1 |
| 8 | 54-28397 | Distance Bushing | 1 |
| 9 | 67-27052 | Radial Bearing 12 X 24 X 6 | 2 |
| 10 | 54-28395-1 | Tension Pulley | 1 |
| 11 | 67-27040 | Internal Ring (24mm) | 1 |
| 12 | 401-M6-D9021 | Washer, M6 - Din9021 | 1 |
| 13 | 402-M6 | Washer, Lock M6 | 1 |
| 14 | 335-M6-12 | Screw,Skt.Hd. M6-1 X 12 | 1 |
| 15 | 67-27244 | O-Ring 1.0 x 24mm ID | 2 |
| 16 | 31-27219 | Theta Motor Cable | 1 |
| 17 | 31-27150 | Servomotor, 84mm | 1 |
| 18 | 54-28398-1 | Motor Mtg Brkt | 1 |
| 19 | 31-26897 | M8 Qd Cable Right Angle | 2 |
| 20 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 10 |
| 21 | 402-M6 | Washer, Lock M6 | 7 |
| 22 | 532-M3-16 | Pin, Dowel M3 X 16 | 2 |
| 23 | 333-M4-8 | Screw,Skt.Btn.Hd. M4-0.7 X 8 | 4 |
| 24 | 54-28550-1 | Cable Shield | 2 |
| 25 | 54-28549 | Cover Retaining Clip | 2 |
| 26 | 332-M4-8 | Screw,Skt.Flt.Hd. M4-.7 X 8 | 2 |
| 27 | 332-M6-12 | Screw,Skt.Flt.Hd. M6-1 X 12 | 10 |
| 28 | 335-M5-16 | Screw,Skt.Hd. M5-.8 X 16 | 2 |
| 29 | 54-28362 | Tool Base Plate | 1 |
| 30 | 67-27021 | Lm Guide Rail | 2 |
| 31 | 532-M3-14 | Pin, Dowel M3 X 14 | 4 |
| 32 | 31-27024-1 | Proximity Sensor | 2 |
| 33 | 335-M4-20 | Screw,Skt.Hd. M4-.7 X 20 | 14 |
| 34 | 332-M6-20 | Screw,Skt.Flt.Hd. M6-1 X 20 | 4 |
| 35 | 532-M5-20 | Pin, Dowel M5 X 20 | 2 |
| 36 | 335-M6-20 | Screw,Skt.Hd. M6-1 X 20 | 2 |
| 37 | 67-27162 | Double Line Plastic Clamp | 2 |
| 38 | 54-28419-2 | Panel Plate | 1 |
| 39 | 54-28388 | Shock Absorber Stop | 2 |
| 40 | 54-28387 | Cylinder Rod Mount | 1 |
| 41 | 335-M5-20 | Screw,Skt.Hd. M5-.8 X 20 | 4 |

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|-----------------------------|------|
| 42 | 402-M5 | Washer, Lock M5 | 4 |
| 43 | 54-28364 | Cylinder Mtg Brkt | 1 |
| 44 | 100-13-26 | Connector Elbow, Ø6mm | 1 |
| 45 | 27-26076 | Air Cylinder (32 Dia.X170) | 1 |
| 46 | 335-M4-30 | Screw,Skt.Hd. M4-.7 X 30 | 2 |
| 47 | 402-M4 | Washer, Lock M4 | 6 |
| 48 | 54-28548 | Safety Stop Plate | 1 |
| 49 | 335-M4-12 | Screw,Skt.Hd. M4-.7 X 12 | 2 |
| 50 | 81-00002 | Laser Diode Pointer | 1 |
| 51 | 54-H0403 | Mount Laser Pointer | 1 |
| 52 | 532-M3-12 | Pin, Dowel M3 X 12 | 2 |
| 53 | 100-11-20 | Connector, Straight, Ø6mm | 1 |
| 54 | 532-M5-14 | Pin, Dowel M5 X 14 | 2 |
| 55 | 67-27074-1 | Twin Power Belt 178T | 1 |
| 56 | 67-27215 | Shaft Collar,Wedge Ø16mm | 1 |
| 57 | 335-M5-25 | Screw,Skt.Hd. M5-.8 X 25 | 2 |
| 58 | 54-28364-1 | Cylinder Mtg Lower Brkt | 1 |
| 59 | 335-M5-10 | Screw,Skt.Hd. M5-.8 X 10 | 4 |
| 60 | 335-M4-25 | Screw,Skt.Hd. M4-.7 X 25 | 2 |
| 61 | 54-28386-1 | Timing Pulley (5Gt2, 26 T) | 1 |
| 62* | 54-28419-1 | Panel Plate | 1 |
| 63* | 54-28421-1 | Drill Mounting Bracket | 1 |

*-Not Included in Assembly. Reference Only

Please Specify machine voltage
and complete serial number when
ordering replacement parts.

Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.



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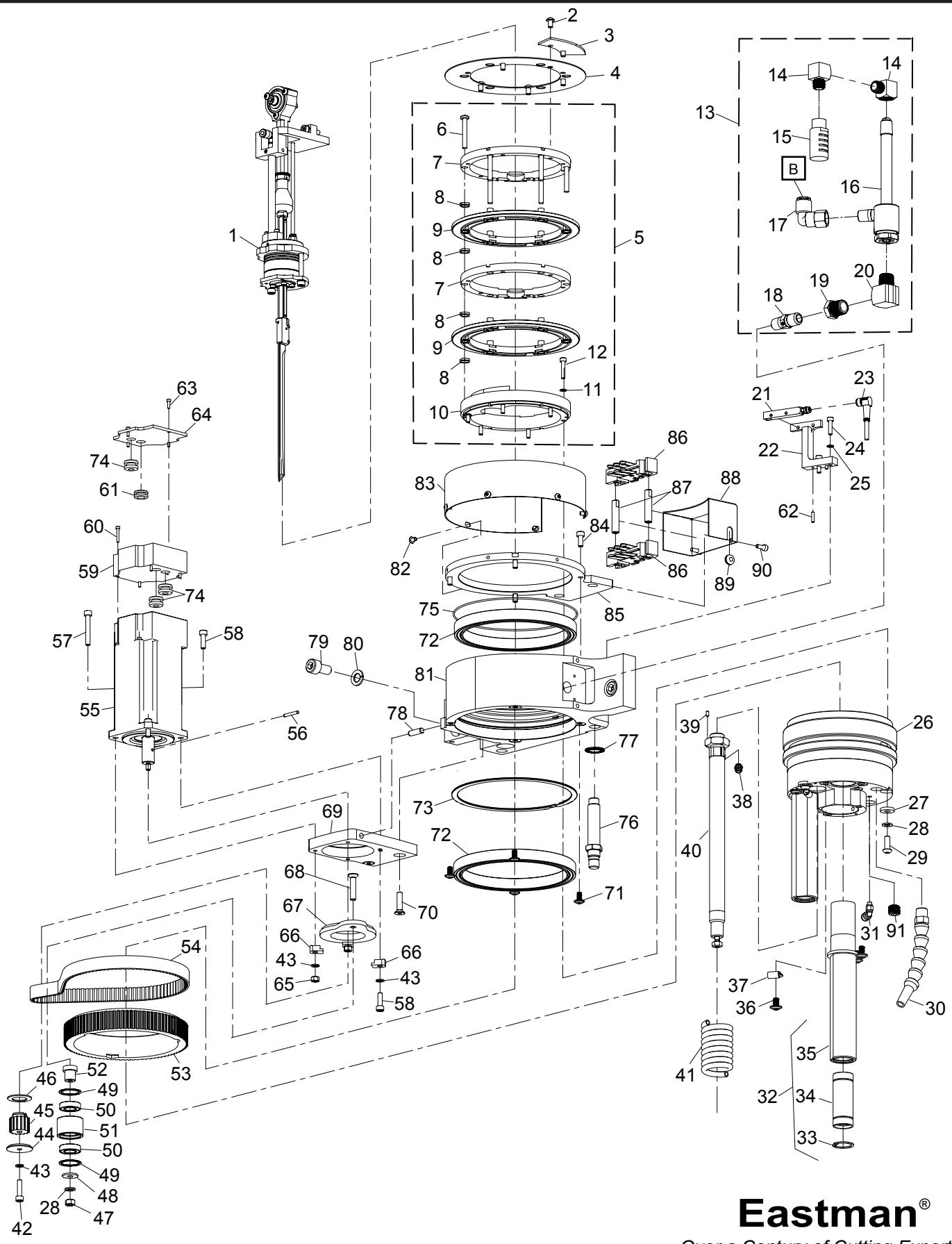
Over a Century of Cutting Expertise

Knife Block Slide Assembly

68-26572-1

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|--------------|-----------------------------|------|
| 1 | 68-26577-1 | Reciprocating Knife Assy | 1 |
| | 68-26577-2 | Reciprocating Knife Assy | 1 |
| 2 | 333-M5-8 | Screw,Skt.Btn.Hd. M5-.8X10 | 7 |
| 3 | 54-28417 | Sensor Target | 1 |
| 4 | 54-28404 | Slip Ring Cover | 1 |
| 5 | 68-26575 | 4 Pole Slip Ring Assy | 1 |
| 6 | 328-M5-35 | Screw,Pan Hd. M5-.8 X 35 | 6 |
| 7 | 54-28371 | Slip Ring Spacer | 2 |
| 8 | 54-28558 | Slip Ring Isolation Washer | 24 |
| 9 | 67-27027 | Slip Ring (2 Pole) | 2 |
| 10 | 54-28368 | Slip Ring Mtg Ring | 1 |
| 11 | 402-M4 | Washer, Lock M4 | 6 |
| 12 | 335-M4-20 | Screw,Skt.Hd. M4-.7 X 20 | 6 |
| 13 | 68-26583-1 | Knife Cooling Assy | 1 |
| 14 | 100-13-24-1 | 1/4 Male X 1/4 Female Elbow | 2 |
| 15 | 27-27082 | Hot Air Muffler (1/4 Fnpt) | 1 |
| 16 | 27-27081 | Vortex Tube 15 Scfm | 1 |
| 17 | 100-13-30 | Female Swivel Elbow, 1/4Npt | 1 |
| 18 | 100-12-7 | Male Metric Adapter 1/4 Npt | 1 |
| 19 | 100-11-26 | Reducing Bushing 3/8-1/4 | 1 |
| 20 | 100-13-35 | M-F Elbow 3/8-3/8 Npt | 1 |
| 21 | 31-26896 | Proximity Sensor | 1 |
| 22 | 54-28418 | Sensor Brkt | 1 |
| 23 | 31-26897 | M8 Qd Cable Right Angle | 1 |
| 24 | 335-M4-16 | Screw,Skt.Hd. M4-.7 X 16 | 2 |
| 25 | 402-M4 | Washer, Lock M4 | 6 |
| 26 | 54-28366-1 | Theta Drive Shaft | 1 |
| 27 | 67-27024 | Washer, 16 X 6 X 3 | 3 |
| 28 | 402-M6 | Washer, Lock M6 | 4 |
| 29 | 333-M6-16 | Screw,Skt.Btn.Hd. M6-1 X 16 | 3 |
| 30 | 67-27164 | Adjustable Cooling Hose | 1 |
| 31 | 27-26073 | Connector, Male Elbow Ø4 | 1 |
| 32 | 68-26574 | Guide Bushing Assy | 2 |
| 33 | 67-27028 | Internal Retaining Ring | 2 |
| 34 | 67-27023 | Linear Ball Bushing | 2 |
| 35 | 54-28370 | Bushing Housing | 2 |
| 36 | 67-27093 | Flanged Bshcs M6 X 1.0 X 10 | 6 |
| 37 | 54-28547-1 | Spiral Clip | 1 |
| 38 | 27-26072 | Connector, Male Straight Ø4 | 1 |
| 39 | 342-M3-6-2 | Screw,Skt.Set M3-.5X6, Flat | 3 |
| 40 | 27-26075 | Air Cylinder (Ø16,150) | 1 |
| 41 | 7-27051-1 | Spiral Tubes With Wire | 1 |
| 42 | 335-M5-20 | Screw,Skt.Hd. M5-.8 X 20 | 1 |
| 43 | 402-M5 | Washer, Lock M5 | 4 |
| 44 | 54-28545 | Belt Retainer | 1 |
| 45 | 54-28406 | Timing Pulley (5Gt2-15) | 11 |
| 46 | 54-28406-1 U | Pulley Flange | 1 |

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|--------------|-------------------------------|------|
| 47 | 203-M6 | M6x1 Hex Nut | 1 |
| 48 | 401-M6-D9021 | Washer, M6 - Din9021 | 1 |
| 49 | 67-27040 | Internal Ring (24mm) | 2 |
| 50 | 67-27039 | Bearing 12 X 24 X 6 | 2 |
| 51 | 54-28408 | Tension Roller | 1 |
| 52 | 54-28409 | Tension Shaft | 1 |
| 53 | 54-28373 | Timing Pulley | 1 |
| 54 | 67-27036-1 | Belt, Timing 5mmgt2, 15mm | 1 |
| 55 | 31-27151 | Servomotor,Modified | 1 |
| 56 | 532-M3-22 | Pin, Dowel M3 X 22 | 1 |
| 57 | 335-M5-35-Ft | Screw,Skt.Hd. M5-.8 X 35 | 2 |
| 58 | 335-M5-16 | Screw,Skt.Hd. M5-.8 X 16 | 2 |
| 59 | 54-28693 | Theta Motor Junction Box | 1 |
| 60 | 335-M2.5-16 | Screw,Skt.Hd. M2.5-.45 X 16 | 4 |
| 61 | 9015-0013 | Grommet, Rubber 3/8 X 5/8 | 1 |
| 62 | 532-M3-12 | Pin, Dowel M3 X 12 | 2 |
| 63 | 335-M2.5-8 | Screw,Skt.Hd. M2.5-0.45 X 8 | 4 |
| 64 | 54-28694 | Motor Cover | 1 |
| 65 | 206-M5 | Nut, Hex M5 X 0.8 X4.0 | 2 |
| 66 | 54-28410 | Clamp | 3 |
| 67 | 54-28407-1 | Belt Tension Arm | 1 |
| 68 | 332-M6-30 | Screw,Skt.Flt.Hd. M6-1 X 30 | 1 |
| 69 | 54-28645 | Thetha Motor Brkt | 1 |
| 70 | 332-M6-25 | Screw,Skt.Flt.Hd. M6-1 X 25 | 2 |
| 71 | 67-27041 | Flanged Bshcs M5X10X0.8 | 4 |
| 72 | 67-27035 | Radial X-Type Bearing | 2 |
| 73 | 67-27114 | Retaining Ring Internal 5.500 | 1 |
| 74 | 9015-0011 | Grommet | 2 |
| 75 | 67-27116 | O-Ring 5.500"Idx1/16 #051 | 1 |
| 76 | 67-27037 | Shock Absorber | 2 |
| 77 | 67-27161 | Serrated Belleville Washer | 24 |
| 78 | 532-M6-20 | Pin, Dowel M6 X 20 | 1 |
| 79 | 335-M10-20 | Screw,Skt.Hd. M10-1.5 X 20 | 2 |
| 80 | 402-M10 | Washer, Lock M10 | 2 |
| 81 | 54-28365-1 | Theta Motor Block | 1 |
| 82 | 333-M4-6 | Screw,Skt.Btn.Hd. M4-.7 X 6 | 6 |
| 83 | 54-28372 | Slip Ring Side Cover | 11 |
| 84 | 335-M5-12 | Screw,Skt.Hd. M5-.8 X 12 | 4 |
| 85 | 54-28367 | Slip Ring Terminal Mtg Plate | 1 |
| 86 | 67-27029 | Slip Ring Brush | 2 |
| 87 | 67-27117 | Locating Pin | 2 |
| 88 | 54-28405 | Terminal Cover | 1 |
| 89 | 9015-0006 | Grommet | 1 |
| 90 | 335-M4-10 | Screw,Skt.Hd. M4-.7 X 10 | 2 |
| 91 | 100-19-56 | Plug, 1/4 Hex Socket | 2 |

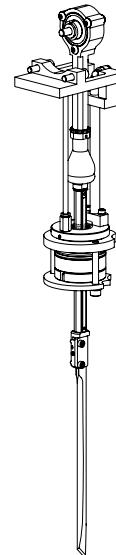


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Reciprocating Knife Assembly

68-26577-1 / 68-26577-2



| Item | Part No. | Description | Qty. |
|------|------------|--------------------------------|------|
| 1 | 68-26579-3 | Reciprocating Linkage Assy | 1 |
| 2 | 67-27247 | Inner Ring 17x20x16 | 1 |
| 3 | 54-28400-7 | Bearing Retainer | 2 |
| 4 | 331-M4-6 | Screw, Hex Hd. M4-.7 X 6 | 6 |
| 5 | 54-28400-6 | Crank Clamp | 1 |
| 6 | 67-27136 | Wedge Locking Washer M6 | 1 |
| 7 | 331-M6-35 | Screw, Hex.Hd. M6-1 X 35 | 1 |
| 8 | 54-28400-5 | Crank Eccentric Shaft | 1 |
| 9 | 67-27245 | O-Ring 1.0 X 28mm ID | 2 |
| 10 | 54-28399-3 | Crank | 1 |
| 11 | 67-26246 | Needle Bearing | 1 |
| 12 | 67-27167 | Steel Wedge Lock Washer | 1 |
| 13 | 68-26579-1 | Reciprocating Linkage Assy | 1 |
| 14 | 331-M6-35 | Screw, Hex.Hd. M6-1 X 35 | 1 |
| 15 | 67-27136 | Wedge Locking Washer M6 | 1 |
| 16 | 333-M4-6 | Screw, Skt.Btn.Hd. M4-.7 X 6 | 3 |
| 17 | 54-28400-1 | Crank Eccentric Shaft | 1 |
| 18 | 67-27168 | Radial Bearing 12 X 28 x 8 | 2 |
| 19 | 67-27245 | O-Ring 1.0 X 28mm ID | 2 |
| 20 | 54-28399-1 | Crank | 1 |
| 21 | 65-26369 | Belleville Washer 4.3X9X1 | 3 |
| 22 | 333-M4-8 | Screw, Skt.Btn.Hd. M4-.7 X 8 | 3 |
| 23 | 54-28400-2 | Crank Clamp | 1 |
| 24 | 68-26602-1 | Pneumatic Rotary Union | 1 |
| 25 | 27-26073 | Connector, Male Elbow Ø4mm | 1 |
| 26 | 335-M5-20 | Screw, Skt.Hd. M5-.8 X 20 | 2 |
| 27 | 402-M5 | Washer, Lock M5 | 4 |
| 28 | 335-M4-8 | Screw, Skt.Hd. M4-.7 X 8 | 1 |
| 29 | 335-M4-16 | Screw, Skt.Hd. M4-.7 X 16 | 1 |
| 30 | 54-28448 | Tube Brkt | 1 |
| 31 | 100-11-25 | Connector, Straight, Ø4mm | 1 |
| 32 | 54-28447 | Air Inlet Tube | 1 |
| 33 | 335-M3-16 | Screw, Skt.Hd. M3-.5 X 16 | 2 |
| 34 | 402-M3 | Washer, Lock M3 | 6 |
| 35 | 67-27163 | O-Ring Ø8mm Id X 1.0mm | 1 |
| 36 | 342-M3-4 | Screw, Skt.Set M3-.5 X 4, Flat | 3 |
| 37 | 67-27034 | Buna-N O-Ring 16mm Id X 1 | 2 |
| 38 | 54-28444 | Rotary Seal Shaft | 1 |
| 39 | 67-27156 | Ball Bearing 30X37x4 | 2 |
| 40 | 54-28446 | Step Washer | 2 |
| 41 | 67-27157 | Shaft Seal 30X37x5mm | 2 |
| 42 | 67-27159 | O-Ring 1.00X40mm | 2 |
| 43 | 67-27158 | Internal Ring Ø37mm | 1 |

| Item | Part No. | Description | Qty. |
|------|-------------|---------------------------------|------|
| 44 | 54-28445 | Bearing/Seal Housing | 1 |
| 45 | 333-M4-6 | Screw, Skt.Btn.Hd. M4-.7 X 6 | 3 |
| 46 | 532-M2-10 | Pin, Dowel M2 X 10 | 2 |
| 47 | 54-28443-1 | Spline Bushing Mtg | 1 |
| 48 | 54-28443-2 | Spline Bushing Clamp | 1 |
| 49 | 67-27122 | Stroke Spline Nut W/Seal | 1 |
| 50 | 342-M4-6-1 | Screw, Skt. Set M4-.7 X 6 | 1 |
| 51 | 335-M5-40 | Screw, Skt.Hd. M5-.8 X 40 | 2 |
| 52 | 67-27122 | Stroke Spline Nut W/Seal | 14 |
| 53 | 54-28784 | Spline Shaft Bushing Housing | 1 |
| 54 | 402-M3 | Washer, Lock M3 | 6 |
| 55 | 335-M3-25 | Screw, Skt.Hd. M3-.5 X 25 | 4 |
| 56 | 67-27234 | Bushing 10x12x15 LG | 1 |
| 57 | 68-26578 | Knife Spline and Holder Assy | 1 |
| 58 | 335-M3-10 | Screw, Skt.Hd. M3-.5 X 10 | 2 |
| 59 | 67-27033 | Stroke Ball Spline | 1 |
| 60 | 511-M2-10 | Roll Pin, M2 x 10 | 2 |
| 61 | 342-M3-4-1 | Screw, Skt. Set M3-.5 X 4, | 1 |
| 62 | 342-M3-6-2 | Screw, Skt. Set M3-.5 X 6, Flat | 1 |
| 63 | 54-28378-1 | Knife Holder | 1 |
| 64 | 54-28379-1 | Knife Holder Clamp | 1 |
| 65 | 532-M2-10 | Pin, Dowel M2 X 10 | 2 |
| 66 | 68-26589-1 | Ball Joint Ass'y | 1 |
| 67 | 342-M8-25-6 | Screw, Skt. Set M8-1.25 X 25 | 1 |
| 68 | 532-M2-14 | Pin, Dowel M2 X 14 | 1 |
| 69 | 67-27120-1 | Ball Joint | 1 |
| 70 | 67-27136 | Wedge Locking Washer M6 | 1 |
| 71 | 67-27201 | Washer Nylon 10X20x3 | 1 |
| 72* | 54-28440 | Blade, Raptor 75X | 1 |
| | 54-28440-HD | Blade, HD Style | 1 |

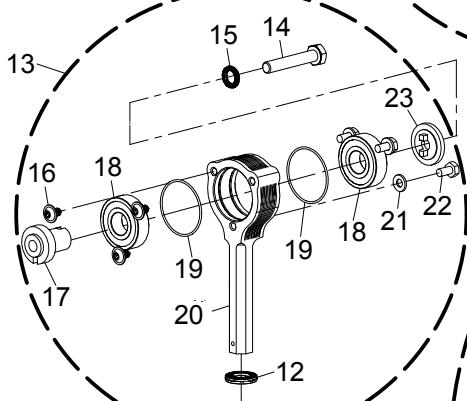
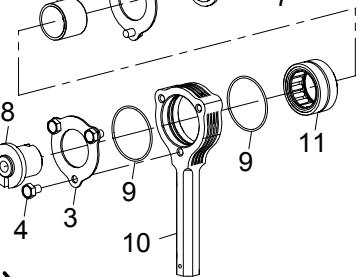
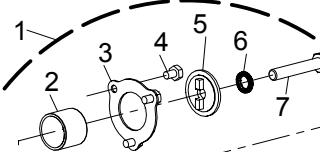
*-Not Included in Assembly

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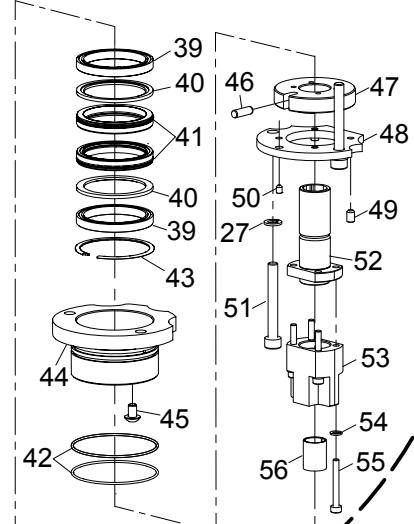
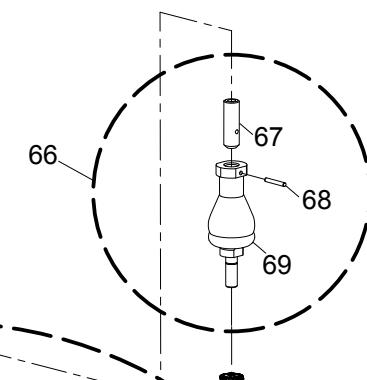
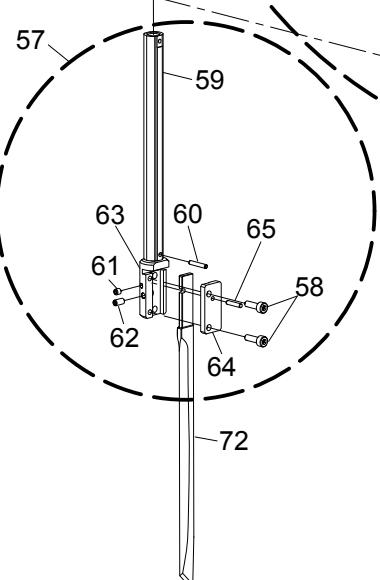
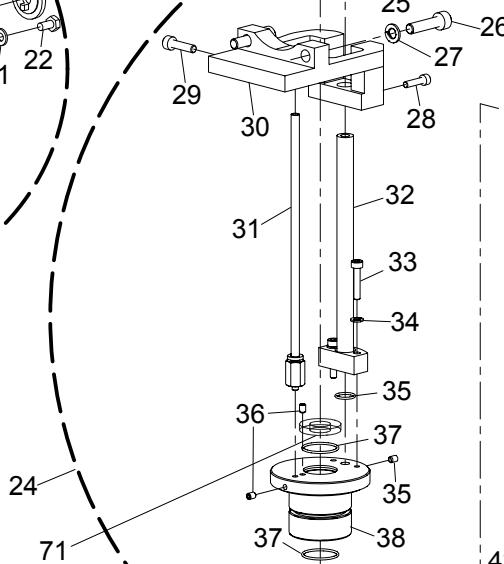
Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

Assy. # 68-26579-3

Included in Assy. # 68-26577-2
(Uses Needle Bearings)



Assy. # 68-26579-1
Included in Assy. # 68-26577-1
(Uses Radial Bearings)



- - 4mm Air Line, Tubing
- △ - 6mm Air Line, Tubing
- - 10mm Air Line, Tubing

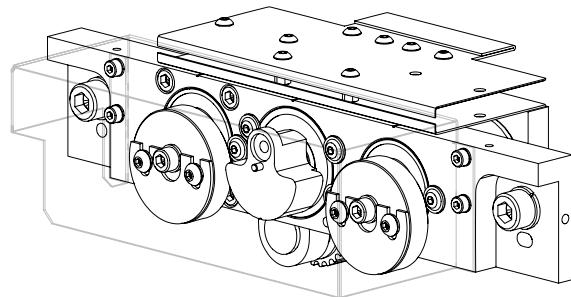
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Reciprocating Drive Assembly

68-26573-1

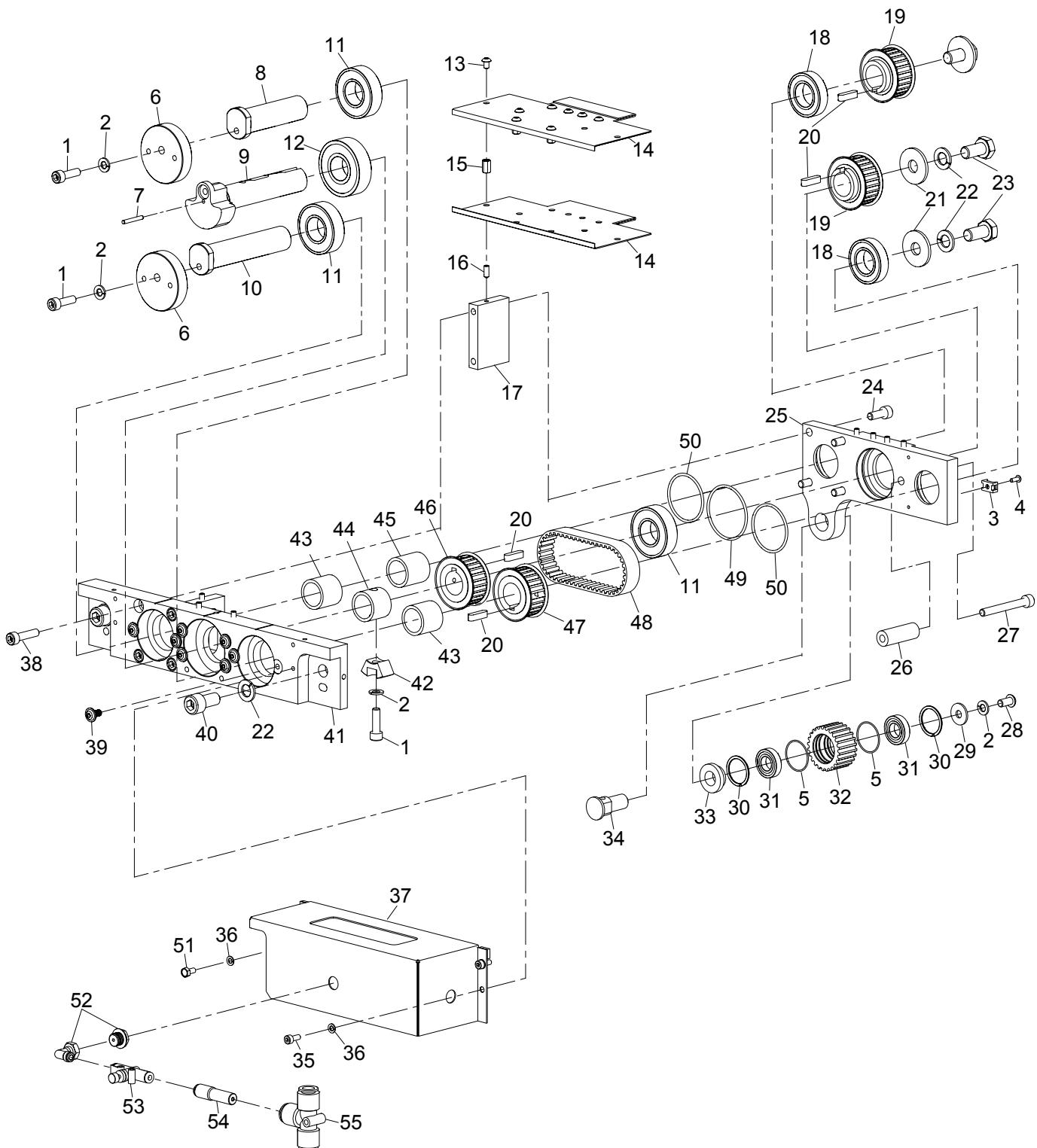
| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|---------------|----------------------------------|------|
| 1 | 335-M6-20 | Screw,Skt.Hd. M6-1 X 20 | 3 |
| 2 | 402-M6 | Washer, Lock M6 | 3 |
| 3 | 11-976-1 | Mount, Small | 2 |
| 4 | 333-M3-8 | Screw,Skt.Btn.Hd. M3-.5X8 | 2 |
| 5 | 67-26244 | O-Ring 1.0 X 24mm ID | 2 |
| 6 | 54-28393 | Balancing Weight | 2 |
| 7 | 532-M3-22 | Pin, Dowel M3 X 22 | 1 |
| 8 | 54-28391 | Balancing Shaft - Long | 1 |
| 9 | 54-28382 | Crank Shaft | 1 |
| 10 | 54-28392 | Balancing Shaft - Short | 1 |
| 11 | 67-27166 | Radial Bearing 20X42x12 | 3 |
| 12 | 67-27199 | Radial Bearing 20X47x14 | 1 |
| 13 | 333-M4-6 | Screw,Skt.Btn.Hd. M4-.7 X 6 | 8 |
| 14 | 54-28554 | Cable Harness Retainer | 2 |
| 15 | 67-27200 | Standoff,Ff,Hex6,M4x10.0lg | 8 |
| 16 | 342-M4-10-6 | Screw,Skt.Set M4-0.7 X 10 | 8 |
| 17 | 54-28390-1 | Distance Bar | 2 |
| 18 | 67-27053 | Radial Bearing 20X37x9 Hybrid | 2 |
| 19 | 54-28384-1 | Timing Pulley | 2 |
| 20 | 67-27070 | Key , Rounded, 5 X 5 X 20 | 4 |
| 21 | 401-M10-D9021 | Washer, M10 - Din9021 | 3 |
| 22 | 402-M10 | Washer, Lock M10 | 5 |
| 23 | 331-M10-20 | Screw,Hex Hd. M10-1.5 X 20 | 3 |
| 24 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 6 |
| 25 | 54-28383-1 | Bearing Housing Rear | 1 |
| 26 | 54-28715 | Spacer Sleeve | 1 |
| 27 | 335-M6-50 | Screw,Skt.Hd. M6-1 X 50 | 1 |
| 28 | 333-M6-12 | Screw,Skt.Btn.Hd. M6-1 X 12 | 1 |
| 29 | 401-M6-D9021 | Washer, M6 - Din9021 | 1 |
| 30 | 67-27040 | Internal Ring (24mm) | 1 |



| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|--------------|-----------------------------|------|
| 31 | 67-27052 | Radial Bearing 12X24x6 | 2 |
| 32 | 54-28394 | Idler Pulley (5Gt2, 24T) | 1 |
| 33 | 54-28397 | Distance Bushing | 1 |
| 34 | 54-28396 | Pulley Tension Shaft | 1 |
| 35 | 335-M4-10 | Screw,Skt.Hd. M4-.7 X 10 | 4 |
| 36 | 402-M4 | Washer, Lock M4 | 4 |
| 37 | 54-28644 | Cover Guard | 1 |
| 38 | 335-M6-25 | Screw,Skt.Hd. M6-1 X 25 | 4 |
| 39 | 67-27041 | Flanged Bshcs M5 X 10 X 0.8 | 8 |
| 40 | 335-M10-20 | Screw,Skt.Hd. M10-1.5 X 20 | 2 |
| 41 | 54-28369-1 | Knife Drive Mtg Bar | 1 |
| 42 | 54-28553 | Center Balance | 1 |
| 43 | 54-28389-2 U | Spacer | 2 |
| 44 | 54-28389-2 | Spacer | 1 |
| 45 | 54-28389 U | Spacer | 1 |
| 46 | 54-28401-1 | Timing Pulley,26T,5Mmgt2 | 1 |
| 47 | 54-28401 | Timing Pulley,26 T | 1 |
| 48 | 67-27054 | Belt, 5Mmgt2,15mm,50T | 1 |
| 49 | 67-27154 | O-Ring Ø37 Id X 2 | 2 |
| 50 | 67-27154-1 | O Ring Ø42 Id X 2 | 1 |
| 51 | 331-M4-8 | Screw,Hex.Hd. M4-.7 X 8 | 2 |
| 52 | 100-13-46 | Bulkhead Elbow, 5/32 | 1 |
| 53 | 27-27078 | Flow Control Valve, In-Line | 1 |
| 54 | 100-11-38 | Connector Straight, 5/32 | 1 |
| 55 | 100-14-12 | 3/8" Union Tube Tee | 1 |

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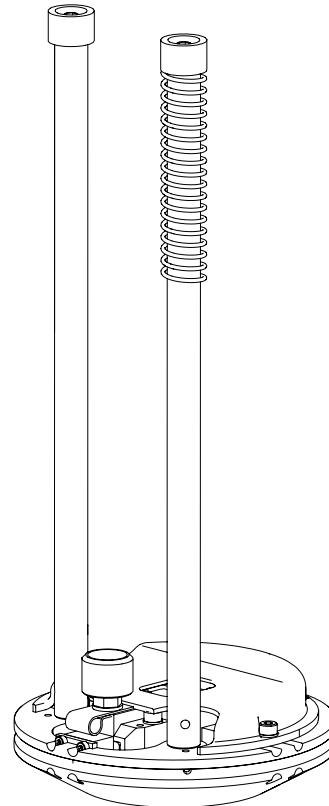
Raptor Presser Foot Assembly

68-26584-2

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|-------------------------------|------|
| 1 | 333-M6-10 | Screw,Skt.Btn.Hd. M6-1 X 10 | 2 |
| 2 | 402-M6 | Washer, Lock M6 | 4 |
| 3 | 54-28438 | Guide Shaft Stop | 1 |
| 4 | 67-27125 | Compression Spring | 2 |
| 5 | 54-28437 | Guide Shaft | 2 |
| 6 | 54-28637 | Spiral Tube Guide | 1 |
| 7 | 54-28547-1 | Spiral Clip Bottom | 1 |
| 8 | 335-M4-25 | Screw,Skt.Hd. M4-.7 X 25 | 2 |
| 9 | 402-M4 | Washer, Lock M4 | 5 |
| 10 | 54-28432 | Back Roller Guide Block | 1 |
| 11 | 68-26590 | Back Knife Roller Assy | 1 |
| 12 | 67-27044 | Internal Snap Ring (16mm) | 1 |
| 13 | 67-27043 | Brass Shim Ring (5 X 14 X 1) | 2 |
| 14 | 67-27045 | Radial Bearing 5X16x5 | 2 |
| 15 | 54-28434 | Back Knife Roller Guide | 1 |
| 16 | 342-M3-4-6 | Screw,Skt.Set M3-.5 X 4, Cup | 4 |
| 17 | 54-28431-1 | Back Guide Roller Guide | 1 |
| 18 | 532-M3-8 | Pin Dowel, M3 X 8 | 2 |
| 19 | 54-28433 | Support Shaft | 1 |
| 20 | 532-M3-22 | Pin, Dowel M3 X 22 | 2 |
| 21 | 335-M2.5-8 | Screw,Skt.Hd. M2.5-0.45 X 8 | 8 |
| 22 | 54-28435-1 | Presser Foot Base , Raptor | 1 |
| 23 | 54-28439-1 | Presser Foot Cover | 1 |
| 24 | 335-M4-8 | Screw,Skt.Hd. M4-.7 X 8 | 3 |
| 25 | 54-28436-1 | Blade Scraper | 1 |
| 26 | 54-28697 | Locating Bushing | 1 |
| 27 | 333-M6-20 | Screw,Skt.Btn.Hd. M6-1 X 20 | 1 |
| 28 | 342-M4-6-2 | Screw,Skt.Set M4-.7 X 6, Flat | 1 |
| 29 | 54-28786 | Spacer Sleeve | 1 |
| 30 | 54-28787 | Presser Foot Insert | 1 |
| 31 | 332-M4-6 | Screw,Skt.Flt.Hd. M4-.7 X 6 | 4 |
| 32* | 68-26585-1 | Knife Side Guide Assy | 1 |
| | 68-26585-2 | Knife H.D. Side Guide Assy | 1 |
| 33* | 54-28628-0 | Load Cell Blank | N/S |
| | 54-28628-1 | Load Cell Housing | 2 |
| 34* | 54-28735 | Load Cell Amplifier Housing | 1 |
| 35* | 31-26999-2 | Load Cell (125N/25Lbs) | 1 |
| 36* | 31-26999-3 | Load Cell (500N/100Lbs) | 1 |
| 37* | 67-27203 | Disc Spring 206 Lbs | 2 |
| 38* | 67-27202 | Disc Spring 38 Lbs | 2 |
| 39* | 67-27208 | Disc Spring 80 Lbs | 1 |

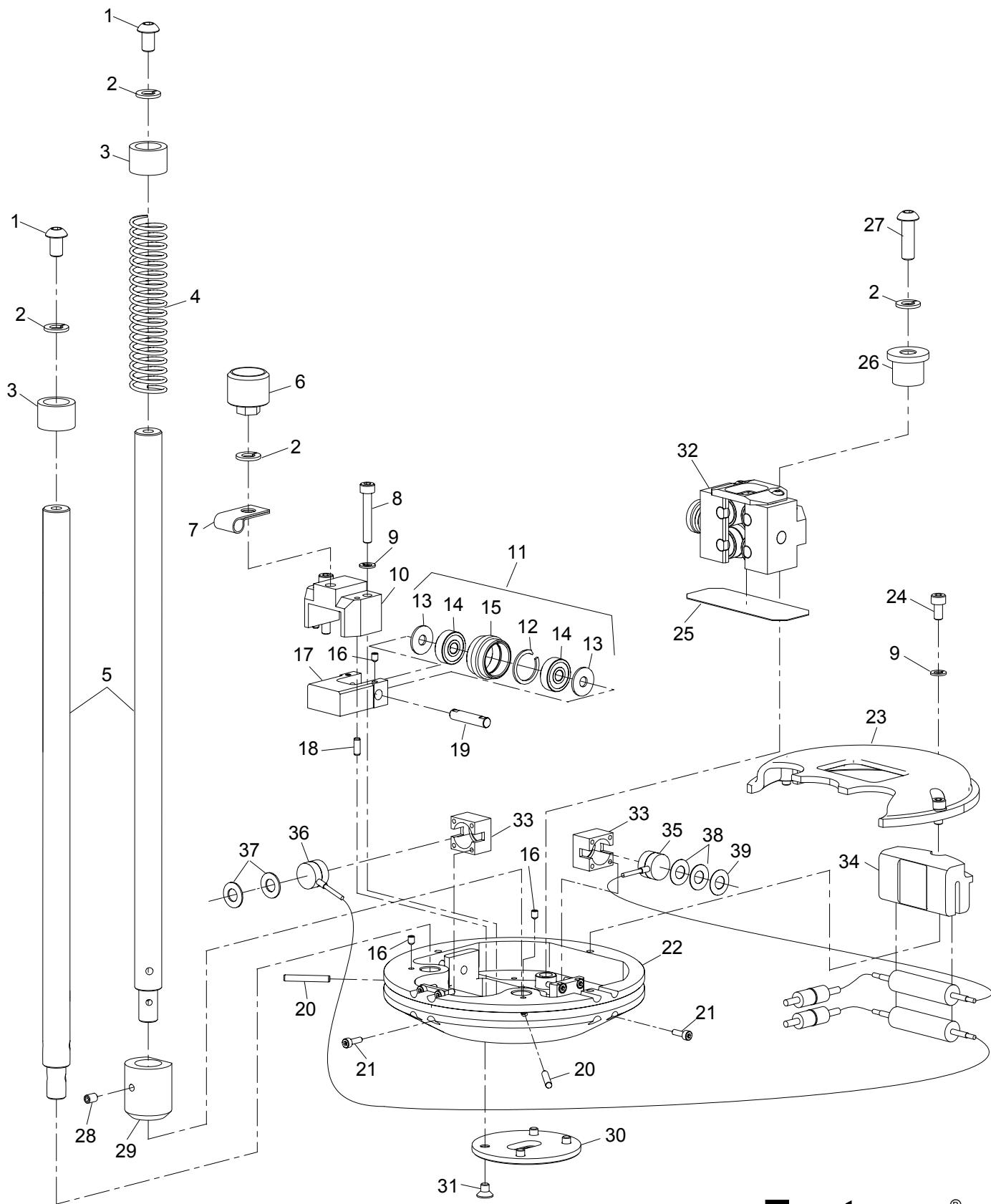
* -Not Included in Assembly

N/S-Not Shown



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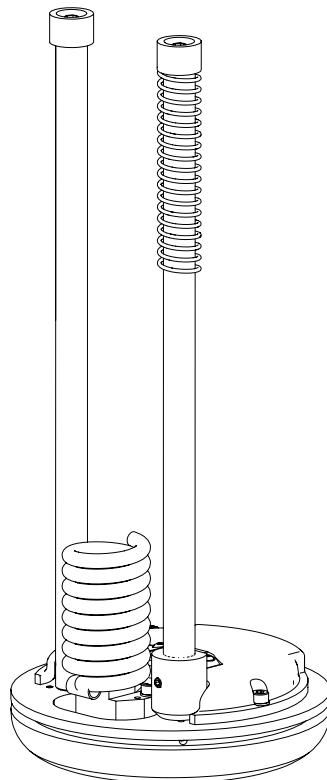
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Raptor Presser Foot Assembly

68-26584-3

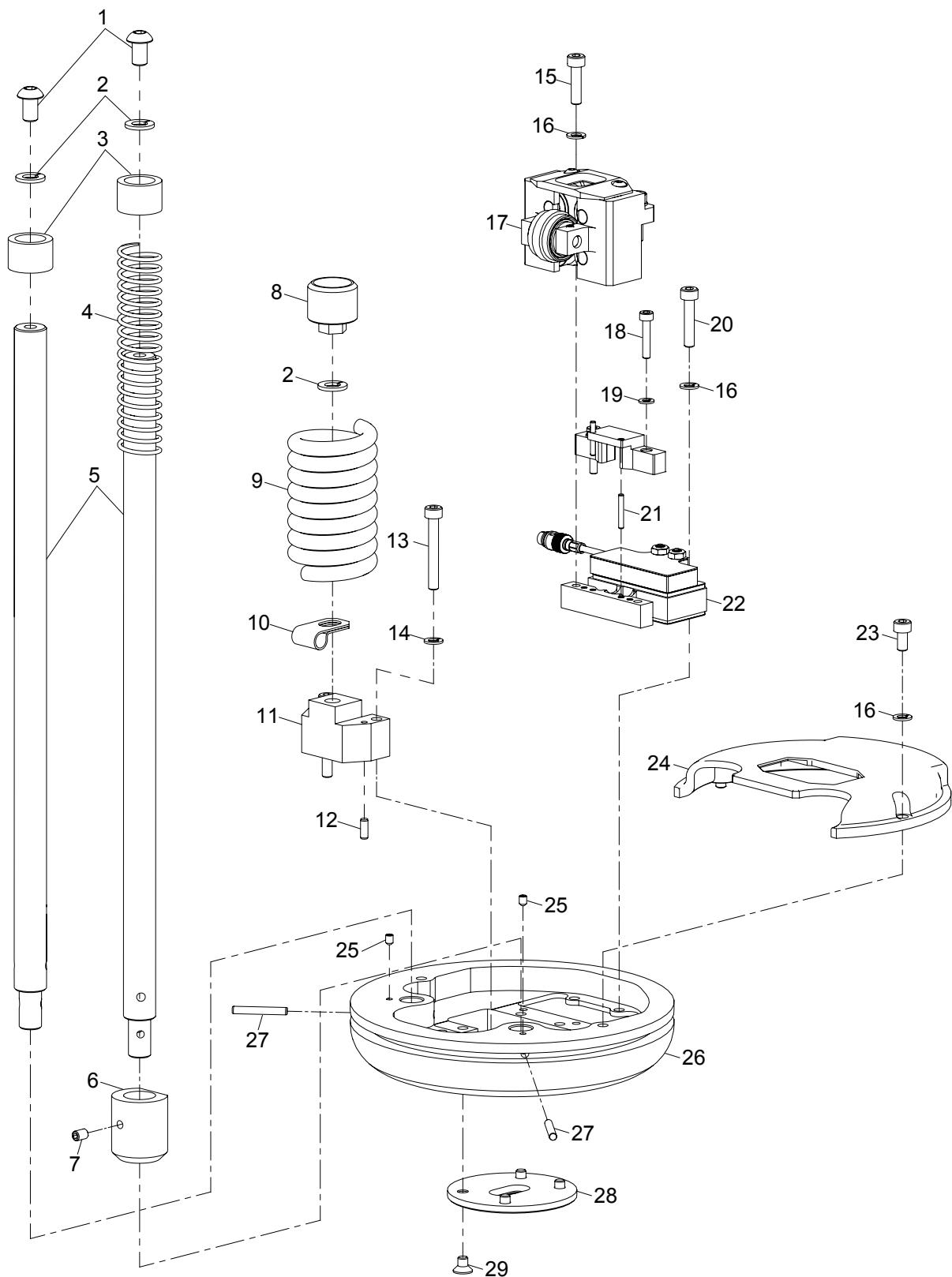
| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|--------------------------------|------|
| 1 | 333-M6-10 | Screw,Skt.Btn.Hd. M6-1 X 10 | 2 |
| 2 | 402-M6 | Washer, Lock M6 | 4 |
| 3 | 54-28438 | Guide Shaft Stop | 1 |
| 4 | 67-27125 | Compression Spring | 2 |
| 5 | 54-28437 | Guide Shaft | 2 |
| 6 | 54-28786 | Spacer Sleeve | 1 |
| 7 | 342-M4-6-2 | Screw,Skt.Set M4-.7 X 6, Flat | 1 |
| 8 | 54-28637 | Spiral Tube Guide | 1 |
| 9* | 67-27051-1 | Spiral Tube W/Sing. Conn. | 1 |
| 10 | 54-28547-1 | Spiral Clip Bottom | 1 |
| 11 | 54-28432-1 | Presser Foot Cylinder Rod Mt.1 | |
| 12 | 532-M3-8 | Pin Dowel, M3 X 8 | 2 |
| 13 | 335-M4-25 | Screw,Skt.Hd. M4-.7 X 25 | 2 |
| 14 | 402-M4 | Washer, Lock M4 | 5 |
| 15* | 335-M4-16 | Screw,Skt.Hd. M4-.7 X 16 | 2 |
| 16* | 402-M4 | Washer, Lock M4 | 2 |
| 17* | 68-26585-4 | Knife Hd Guide Assy | 1 |
| 18 | 335-M3-16 | Screw,Skt.Hd. M3-.5 X 16 | 2 |
| 19 | 402-M3 | Washer, Lock M3 | 2 |
| 20 | 335-M4-20 | Screw,Skt.Hd. M4-.7 X 20 | 2 |
| 21 | 532-M2-14 | Pin, Dowel M2 X 14 | 2 |
| 22* | 31-27304 | Load Cell +/-15 Lbs | 1 |
| 23 | 335-M4-8 | Screw,Skt.Hd. M4-.7 X 8 | 2 |
| 24 | 54-28439-2 | Presser Foot Cover | 1 |
| 25 | 342-M3-4-6 | Screw,Skt.Set M3-.5 X 4,Cup | 2 |
| 26 | 54-28435-2 | Presser Foot Base Raptor | 1 |
| 27 | 532-M3-22 | Pin, Dowel M3 X 22 | 2 |
| 28 | 532-M3-22 | Pin, Dowel M3 X 22 | 2 |
| 29 | 332-M4-6 | Screw,Skt.Flt.Hd. M4-.7 X 6 | 4 |

* -Not Included in Assembly



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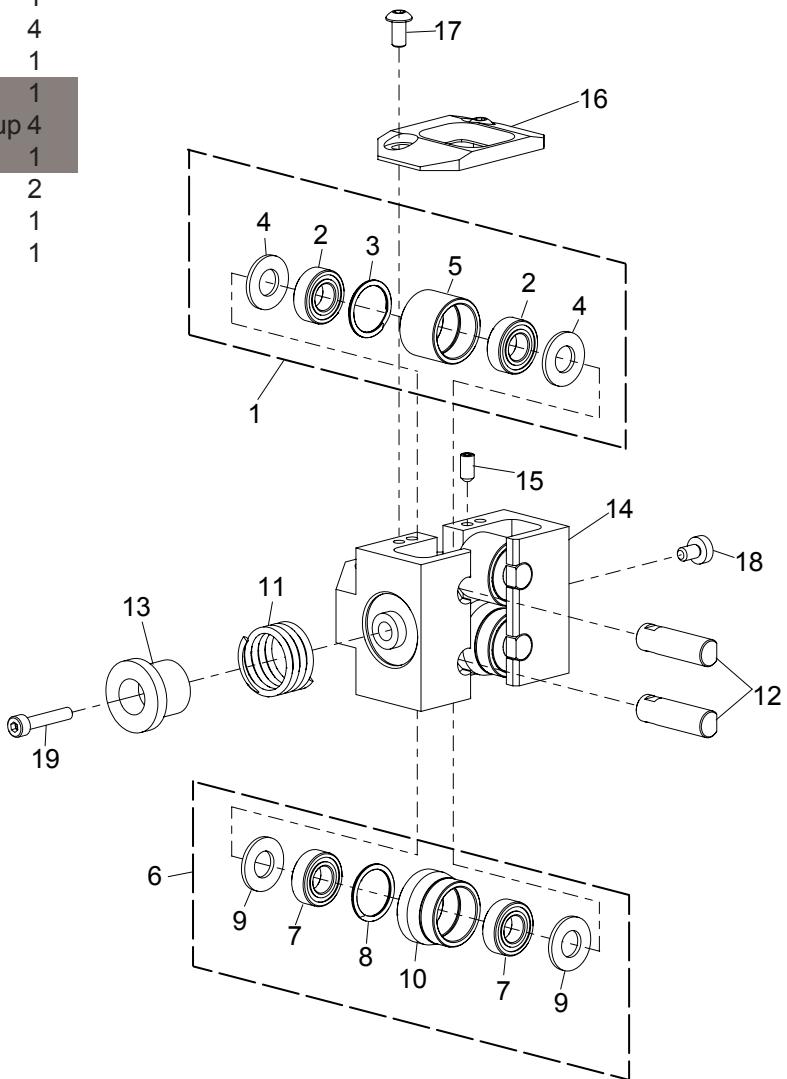
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Knife Side Guide Assembly

68-26585-1

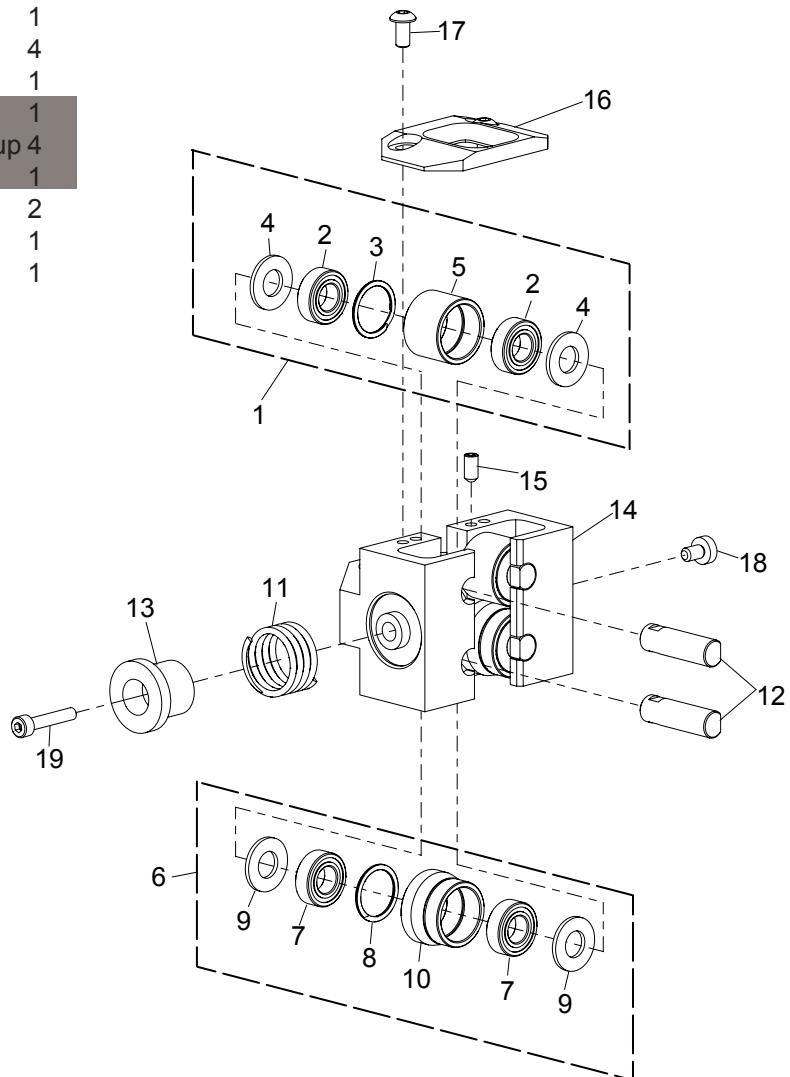
| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|------------------------------|------|
| 1 | 68-26601-1 | Flat Side Roller Assy | 2 |
| 2 | 67-27047 | Radial Bearing 6X12x4 | 4 |
| 3 | 67-27049 | Internal Ring 12mm | 2 |
| 4 | 67-27046 | Brass Shim Ring (6X12x1.0) | 4 |
| 5 | 54-28428-1 | Knife Side Roller - Flat | 2 |
| 6 | 68-26601-2 | Conical Side Roller Assy | 2 |
| 7 | 67-27047 | Radial Bearing 6X12x4 | 4 |
| 8 | 67-27049 | Internal Ring 12mm | 2 |
| 9 | 67-27046 | Brass Shim Ring (6X12x1.0) | 4 |
| 10 | 54-28428 | Knife Side Roller | 2 |
| 11 | 67-27048 | Compression Spring | 1 |
| 12 | 54-28429 | Support Shaft | 4 |
| 13 | 54-28430-1 | Stop Button | 1 |
| 14 | 54-28427-1 | Lower Guide Housing | 1 |
| 15 | 342-M3-6 | Screw,Skt.Set M3-.5 X 6, Cup | 4 |
| 16 | 54-28785 | Knife Guide | 1 |
| 17 | 333-M3-6 | Screw,Btn.Hd M3-.5 X 6 | 2 |
| 18 | 54-28833 | Rest Button | 1 |
| 19 | 335-M4-10 | Screw,Skt.Hd M4-.7 X 10 | 1 |



Knife H.D. Side Guide Assembly

68-26585-2

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|------------------------------|------|
| 1 | 68-26601-1 | Flat Side Roller Assy | 2 |
| 2 | 67-27047 | Radial Bearing 6X12x4 | 4 |
| 3 | 67-27049 | Internal Ring 12mm | 2 |
| 4 | 67-27046 | Brass Shim Ring (6X12x1.0) | 4 |
| 5 | 54-28428-1 | Knife Side Roller - Flat | 2 |
| 6 | 68-26601-3 | Conical Side Roller Assy | 2 |
| 7 | 67-27047 | Radial Bearing 6X12x4 | 4 |
| 8 | 67-27049 | Internal Ring 12mm | 2 |
| 9 | 67-27046 | Brass Shim Ring (6X12x1.0) | 4 |
| 10 | 54-28428-2 | Knife Side Roller-HD Conical | 2 |
| 11 | 67-27048 | Compression Spring | 1 |
| 12 | 54-28429 | Support Shaft | 4 |
| 13 | 54-28430-1 | Stop Button | 1 |
| 14 | 54-28427-1 | Lower Guide Housing | 1 |
| 15 | 342-M3-6 | Screw,Skt.Set M3-.5 X 6, Cup | 4 |
| 16 | 54-28785 | Knife Guide | 1 |
| 17 | 333-M3-6 | Screw,Btn.Hd M3-.5 X 6 | 2 |
| 18 | 54-28833 | Rest Button | 1 |
| 19 | 335-M4-10 | Screw,Skt.Hd M4-.7 X 10 | 1 |



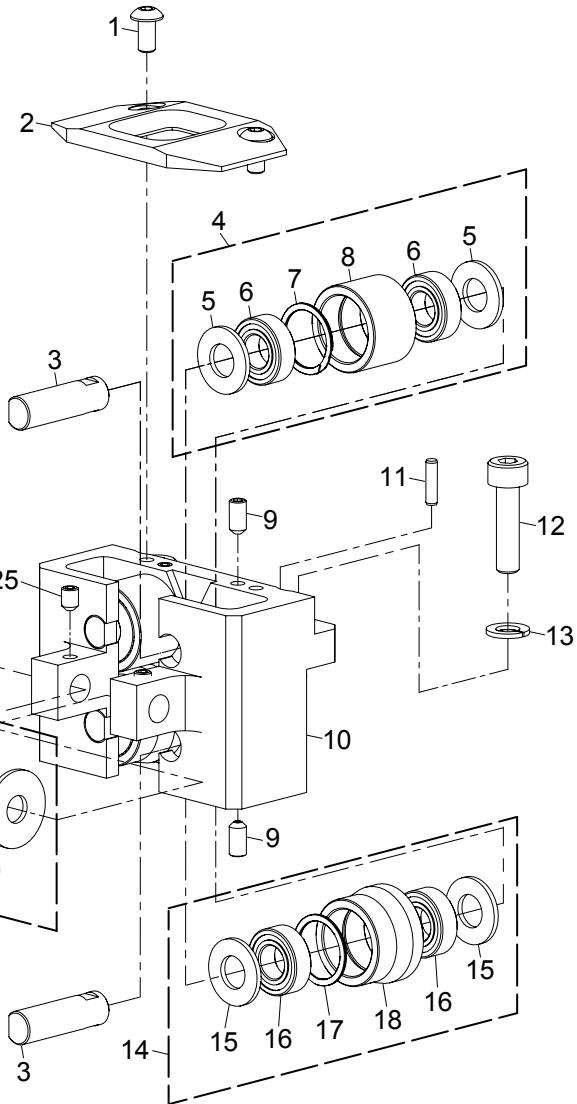
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Knife Side Guide Assembly

68-26585-3

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|----------------------------|------|
| 1 | 333-M3-6 | Screw,Btn.Hd M3-.5 X 6 | 2 |
| 2 | 54-28825 | Knife Guide Top Cover | 1 |
| 3 | 54-28429 | Support Shaft | 4 |
| 4 | 68-26601-4 | Flat Side Roller Assy. | 2 |
| 5 | 67-27046 | Brass Shim Ring (6X12x1.0) | 4 |
| 6 | 67-27047 | Radial Bearing 6X12x4 | 4 |
| 7 | 67-27049 | Internal Ring 12mm | 2 |
| 8 | 54-28428-4 | Knife Side Roller, Flat | 2 |
| 9 | 342-M3-6 | Screw, Skt. Set M3-.5 X 6 | 2 |
| 10 | 54-28427-3 | Knife Guide Housing | 1 |
| 11 | 532-M2-8 | Dowel Pin, M2 X 8 | 2 |
| 12 | 335-M4-16 | Screw,Skt.Hd. M4-.7 X 16 | 2 |

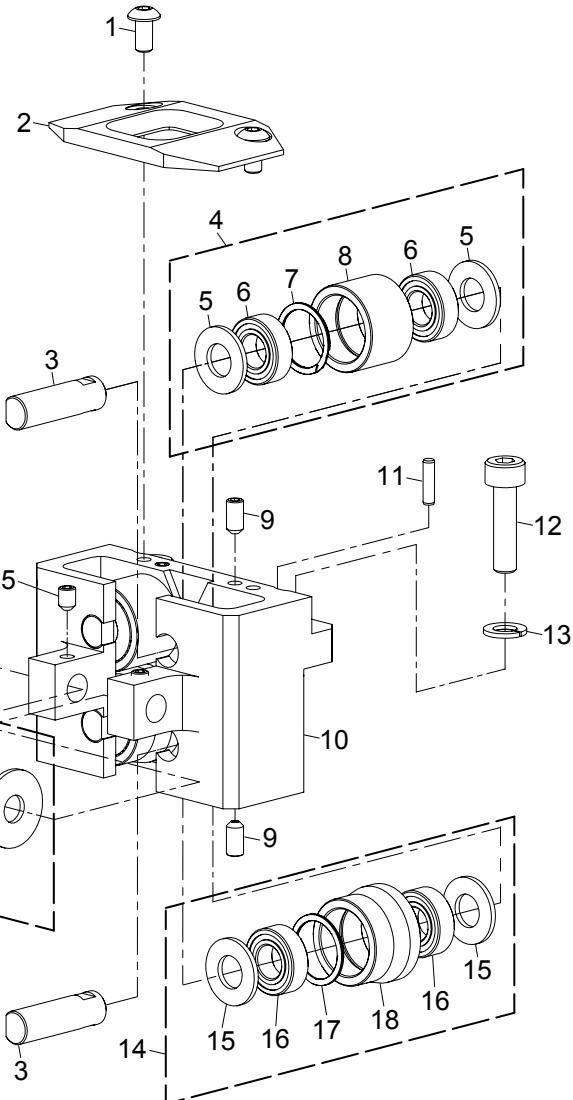


| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|-----------------------------|------|
| 13 | 402-M4 | Washer, Lock M4 | 2 |
| 14 | 68-26601-5 | Conical Side Roller Assy | 2 |
| 15 | 67-27046 | Brass Shim Ring (6X12x1.0) | 4 |
| 16 | 67-27047 | Radial Bearing 6X12x4 | 4 |
| 17 | 67-27049 | Internal Ring 12mm | 2 |
| 18 | 54-28428-5 | Knife Side Roller, Conical | 2 |
| 19 | 68-26590 | Back Knife Roller Assy. | 1 |
| 20 | 67-26043 | Brass Shim Ring (5X14X1) | 2 |
| 21 | 67-27045 | Radial Bearing 5X16X5 | 2 |
| 22 | 54-28434 | Back Knife Roller Guide | 1 |
| 23 | 67-27044 | Internal Snap Ring 16mm | 1 |
| 24 | 54-28433 | Support Shaft | 1 |
| 25 | 342-M3-4-6 | Screw, Skt. Set M3-.5X4 Cup | 2 |

Knife H.D. Side Guide Assembly

68-26585-4

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|----------------------------|------|
| 1 | 333-M3-6 | Screw,Btn.Hd M3-.5 X 6 | 2 |
| 2 | 54-28825 | Knife Guide Top Cover | 1 |
| 3 | 54-28429 | Support Shaft | 4 |
| 4 | 68-26601-4 | Flat Side Roller Assy. | 2 |
| 5 | 67-27046 | Brass Shim Ring (6X12x1.0) | 4 |
| 6 | 67-27047 | Radial Bearing 6X12x4 | 4 |
| 7 | 67-27049 | Internal Ring 12mm | 2 |
| 8 | 54-28428-4 | Knife Side Roller, Flat | 2 |
| 9 | 342-M3-6 | Screw, Skt. Set M3-.5 X 6 | 2 |
| 10 | 54-28427-4 | Knife HD Guide Housing | 1 |
| 11 | 532-M2-8 | Dowel Pin, M2 X 8 | 2 |
| 12 | 335-M4-16 | Screw,Skt.Hd. M4-.7 X 16 | 2 |



| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|-------------------------------|------|
| 13 | 402-M4 | Washer, Lock M4 | 2 |
| 14 | 68-26601-6 | Conical HD Side Roller Assy | 2 |
| 15 | 67-27046 | Brass Shim Ring (6X12x1.0) | 4 |
| 16 | 67-27047 | Radial Bearing 6X12x4 | 4 |
| 17 | 67-27049 | Internal Ring 12mm | 2 |
| 18 | 54-28428-6 | Knife Side Roller, Conical HD | 2 |
| 19 | 68-26590 | Back Knife Roller Assy. | 1 |
| 20 | 67-26043 | Brass Shim Ring (5X14X1) | 2 |
| 21 | 67-27045 | Radial Bearing 5X16X5 | 2 |
| 22 | 54-28434 | Back Knife Roller Guide | 1 |
| 23 | 67-27044 | Internal Snap Ring 16mm | 1 |
| 24 | 54-28433 | Support Shaft | 1 |
| 25 | 342-M3-4-6 | Screw, Skt. Set M3-.5X4 Cup | 2 |

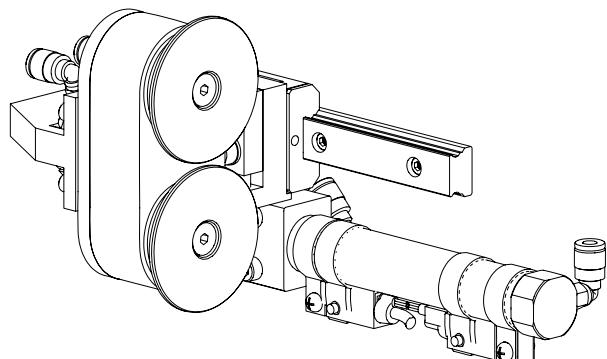
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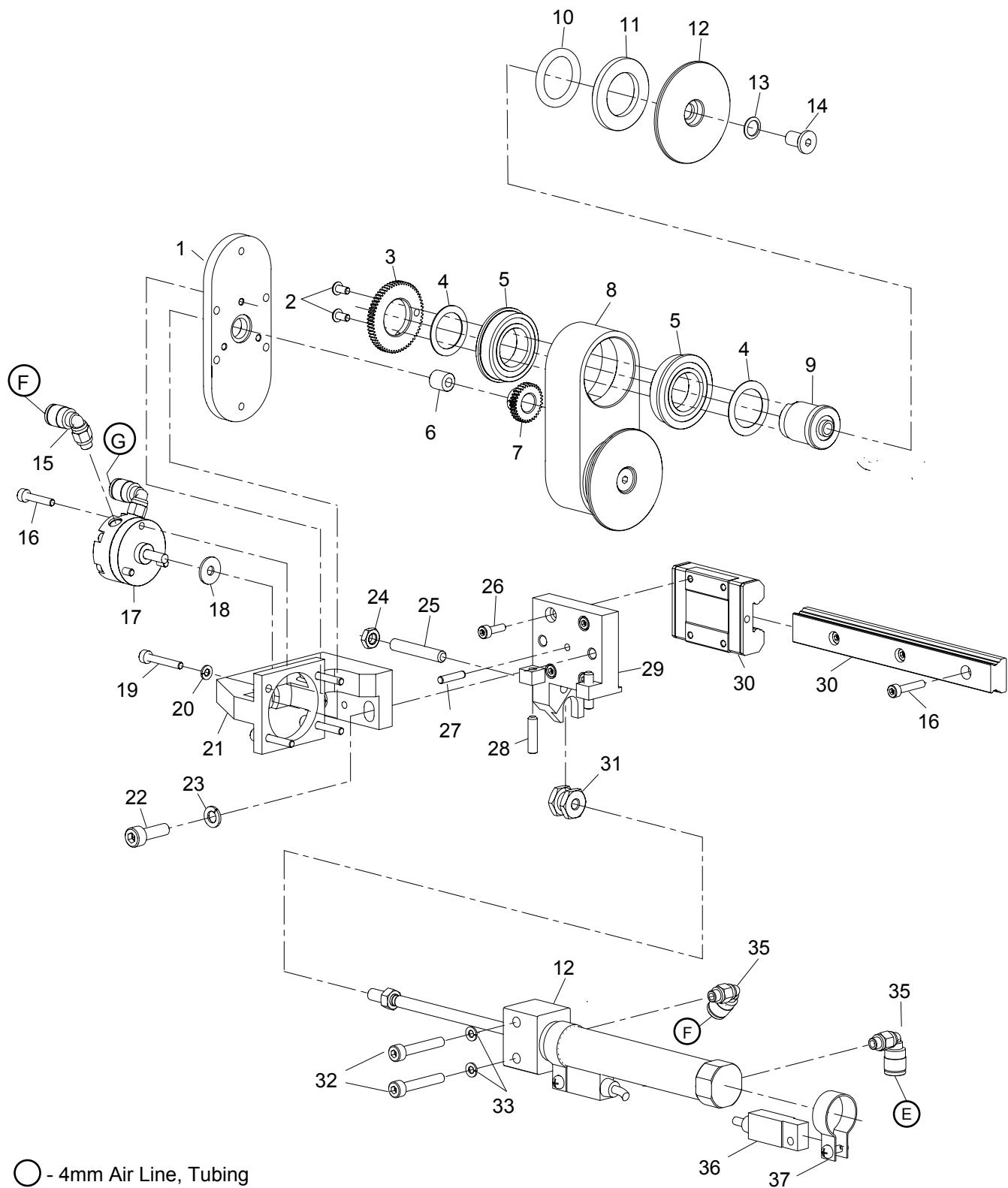
Over a Century of Cutting Expertise

Knife Sharpener Assembly

68-26581

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|---|-----------------------------|------|
| 1 | 54-28413 | Gear Cover | 1 |
| 2 | 333-M3-6 | Screw,Skt.Btn.Hd. M3-.5 X 6 | 4 |
| 3 | 54-28441 | Gear (30Pd) | 2 |
| 4 | 67-27066 | Shim Washer 17X22x0.5 | 2 |
| 5 | 67-27062 | Bearing,Radial,Flanged | 4 |
| 6 | 67-27063 | Clutch Bearing (4X8x8) | 1 |
| 7 | 54-28442 | Gear | 1 |
| 8 | 54-28411 | Sharpener Housing | 1 |
| 9 | 54-28412 | Bearing Sleeve | 2 |
| 10 | 67-27153 | O Ring No.210 | 2 |
| 11 | 67-27118 | Neodymium Ring Magnet | 2 |
| 12 | 54-27326-45-100 54-27326-45-220 54-27326-45-400 | Sharpening Wheel | 2 |
| 13 | 67-27069 | Washer, Serrated M6 | 2 |
| 14 | 67-27064 | Screw,Low Skt.Hd. M6 X 1.0 | 2 |
| 15 | 27-26073 | Connector, Male Elbow Ø4 | 2 |
| 16 | 335-M3-16 | Screw,Skt.Hd. M3-.5 X 16 | 6 |
| 17 | 27-26079 | Rotary Actuator | 1 |
| 18 | 67-27065 | Shim Washer 4X12x1.0 | 1 |
| 19 | 335-M3-20 | Screw,Skt.Hd. M3-.5 X 20 | 4 |
| 20 | 402-M3 | Washer, Lock M3 | 4 |
| 21 | 54-28415 | Sharpener Housing Mount | 1 |
| 22 | 335-M5-16 | Screw,Skt.Hd. M5-.8 X 16 | 2 |
| 23 | 402-M5 | Washer, Lock M5 | 2 |
| 24 | 67-27155 | Shim Ring 17X24x0.3 | 2 |
| 25 | 342-M5-30-2 | Screw,Skt.Set M5 | 1 |
| 26 | 335-M3-10 | Screw,Skt.Hd. M3-.5 X 10 | 4 |
| 27 | 532-M3-14 | Pin, Dowel M3 X 14 | 1 |
| 28 | 342-M4-16-2 | Screw,Skt.Set M4-.7 X 16 | 2 |
| 29 | 54-28414 | Sharpener Guide Block | 1 |
| 30 | 67-27061 | Caged Ball Lm Guide | 1 |
| 31 | 67-27119 | Cylinder Shaft Coupling | 1 |
| 32 | 335-M4-25 | Screw,Skt.Hd. M4-.7 X 25 | 2 |
| 33 | 402-M4 | Washer, Lock M4 | 2 |
| 34 | 27-26078 | Air Cylinder (Ø16x70) | 1 |
| 35 | 27-26073 | Connector, Male Elbow Ø4 | 2 |
| 36 | 31-26783 | Cylinder Sensor (Npn) | 2 |
| 37 | 27-26061 | Switch Mounting Brkt | 2 |





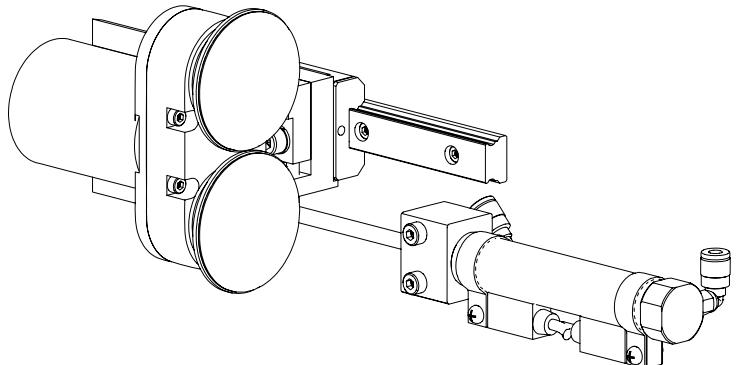
Eastman®

Over a Century of Cutting Expertise

Electric Knife Sharpener Assembly

68-26581-1

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|----------------|-------------------------------|------|
| 1 | See Chart | | |
| 2 | 54-28820 | Sharpening Disc, Blank | 2 |
| 3 | 532-M3-12 | Pin, Dowel M3x12 | 1 |
| 4 | 342-M4-5-6 | Screw, Skt. Set M4-.7x6 | 2 |
| 5 | 54-27326-45-01 | Sharpening Wheel | 2 |
| 6 | 67-27118-1 | Neodymium Ring Magnet | 2 |
| 7 | 67-27153 | O-Ring | 2 |
| 8 | 54-28412-1 | Bearing Sleeve | 2 |
| 9 | 335-M3-12 | Screw, Skt. Hd. M3-.5x12 | 3 |
| 10 | 67-27155 | Shim Ring | 2 |
| 11 | 67-27062 | Bearing, Radial, Flanged | 4 |
| 12 | 54-28411-1 | Sharpening Housing | 1 |
| 13 | 67-27066 | Shim Washer | 2 |
| 14 | 67-27229 | Motor, Brush | 1 |
| 15 | 54-28442 | Gear | 1 |
| 16 | 342-M3-4-6 | Screw, Skt. Set M3-.5x6 | 1 |
| 17 | 67-27229 U | Motor 24VDC | |
| 18 | 332-M4-12 | Screw, Skt. Flt. Hd. M4-.7x12 | 4 |
| 19 | 332-93-6 | Screw, Skt. Flt. Hd.#8-32X3/8 | 4 |
| 20 | 54-28413-1 | Gear Cover | 1 |
| 21 | 333-M3-6 | Screw, Skt. Btn. Hd. M3-.5x6 | 4 |
| 22 | 54-28415-2 | Connecting Bracket | 1 |
| 23 | 333-M3-8 | Screw, Skt. Hd. M3-.5x8 | 2 |
| 24 | 31-26853 | P-Clip Cable Clamp | 1 |
| 25 | 335-M3-16 | Screw, Skt. Hd. M3-.5x16 | 1 |
| 26 | 31-27303 | Terminal, 2 Cir. | 1 |
| 27 | 11-976-1 | Mount, Small | |
| 28 | 335-M5-20 | Screw, Skt. Hd. M5-.8x20 | 1 |
| 29 | 203-M5 | Nut, Fin M5-0.8 | 3 |
| 30 | 54-28415-1 | Sharpener Housing Mount | 1 |
| 31 | 335-M5-16 | Screw, Skt. Hd. M5-.8x16 | 2 |
| 32 | 402-M5 | Washer, Lock M5 | 4 |
| 33 | 532-M3-14 | Pin, Dowel M3x14 | 1 |
| 34 | 67-27243 | Shock Absorber | 1 |
| 35 | 335-M3-10 | Screw, Skt. Hd. M3-.5x10 | 4 |
| 36 | 333-M4-8 | Screw, Skt. Hd. M4-.7x8 | 1 |
| 37 | 402-M4 | Washer, Lock M4 | 1 |

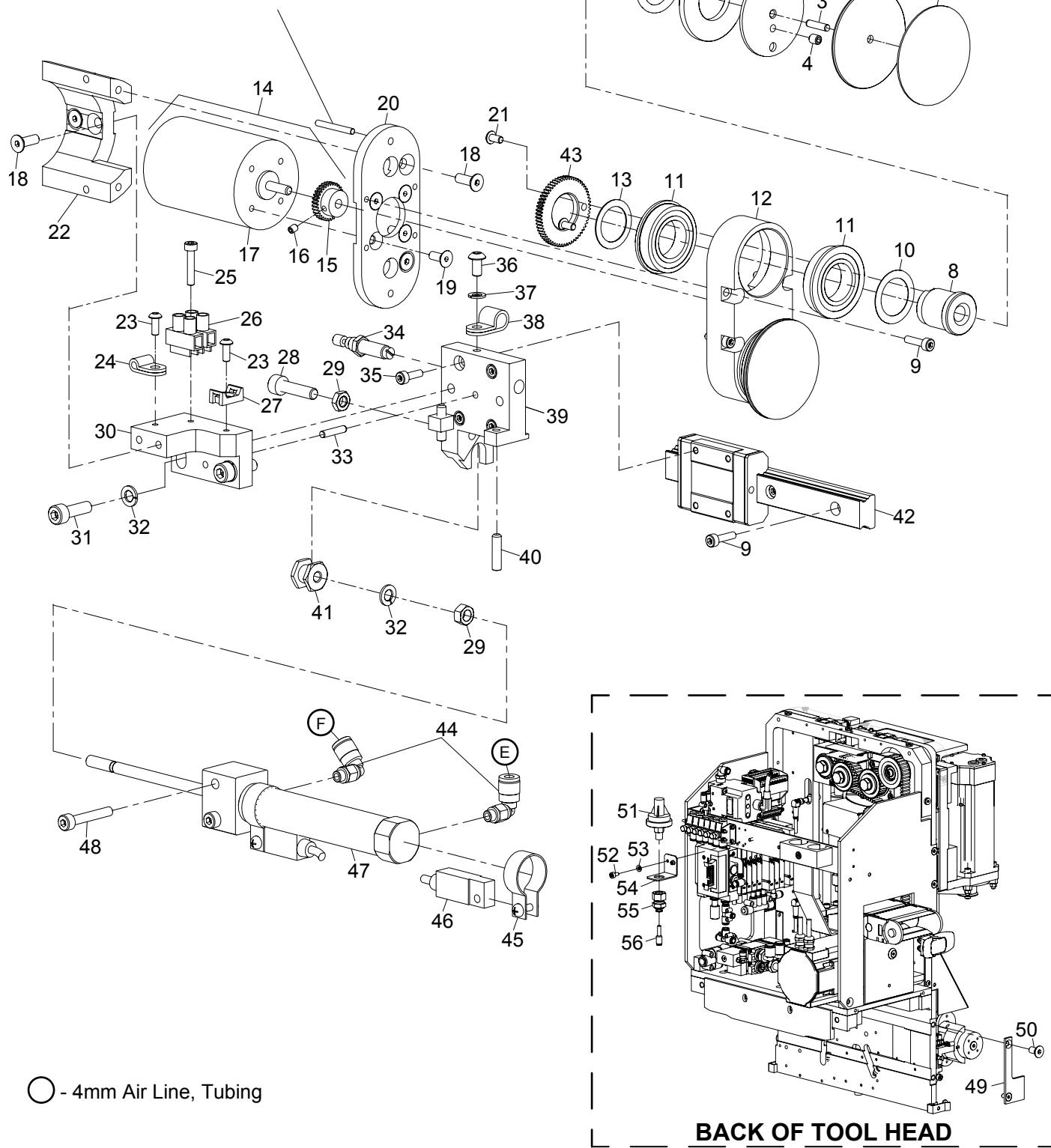


| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|-------------|----------------------------|------|
| 38 | 3397-00 | Cable Clamp, 1/4" Natural | 1 |
| 39 | 54-28414 | Sharpener Guide Block | 1 |
| 40 | 342-M4-16-2 | Screw, Skt. Set. M4-.7x12 | 4 |
| 41 | 67-27119 | Cylinder Shaft Coupling | 1 |
| 42 | 67-27061 | Switch Mounting Bracket | 2 |
| 43 | 54-28441 | Gear | 1 |
| 44 | 27-26073 | Connector, Male Elbow | 2 |
| 45 | 27-26061 | Caged Ball Guide | 1 |
| 46 | 31-26783 | Cylinder Sensor | 2 |
| 47 | 31-26078 | Air Cylinder | 1 |
| 48 | 335-M4-25 | Screw, Skt. Hd. M4-.7x25 | 2 |
| 49 | 54-28819 | Sharpener Stop Bracket | 1 |
| 50 | 332-M6-12 | Screw, Skt.Flt.Hd. M6-1x12 | 4 |
| 51 | 31-27294 | Pressure Switch | 1 |
| 52 | 335-M3-6 | Screw, Skt. Hd. M3-.5x6 | 4 |
| 53 | 402-M3 | Washer, Lock M3 | 1 |
| 54 | 54-28791 | Pressure Switch Bracket | 1 |
| 55 | 100-11-35 | Bulkhead, Female 1/8 NPT | 1 |
| 56 | 100-11-36 | Connector, Straight 5/32 | 1 |
| (57) | 70-26060 | Flex Cable | 1 |

() Not Shown

| Replacement Sharpening Pads | |
|-----------------------------|---------------------------------|
| 54-28778-45-150 | Fine Sharpening Pads, 50 Pack |
| 54-28778-45-100 | Medium Sharpening Pads, 50 Pack |
| 54-28778-45-080 | Coarse Sharpening Pads, 50 Pack |
| 54-28778-45-060 | Rough Sharpening Pads, 50 Pack |

NOTE: To remove Item 5, pin must be inserted as shown below



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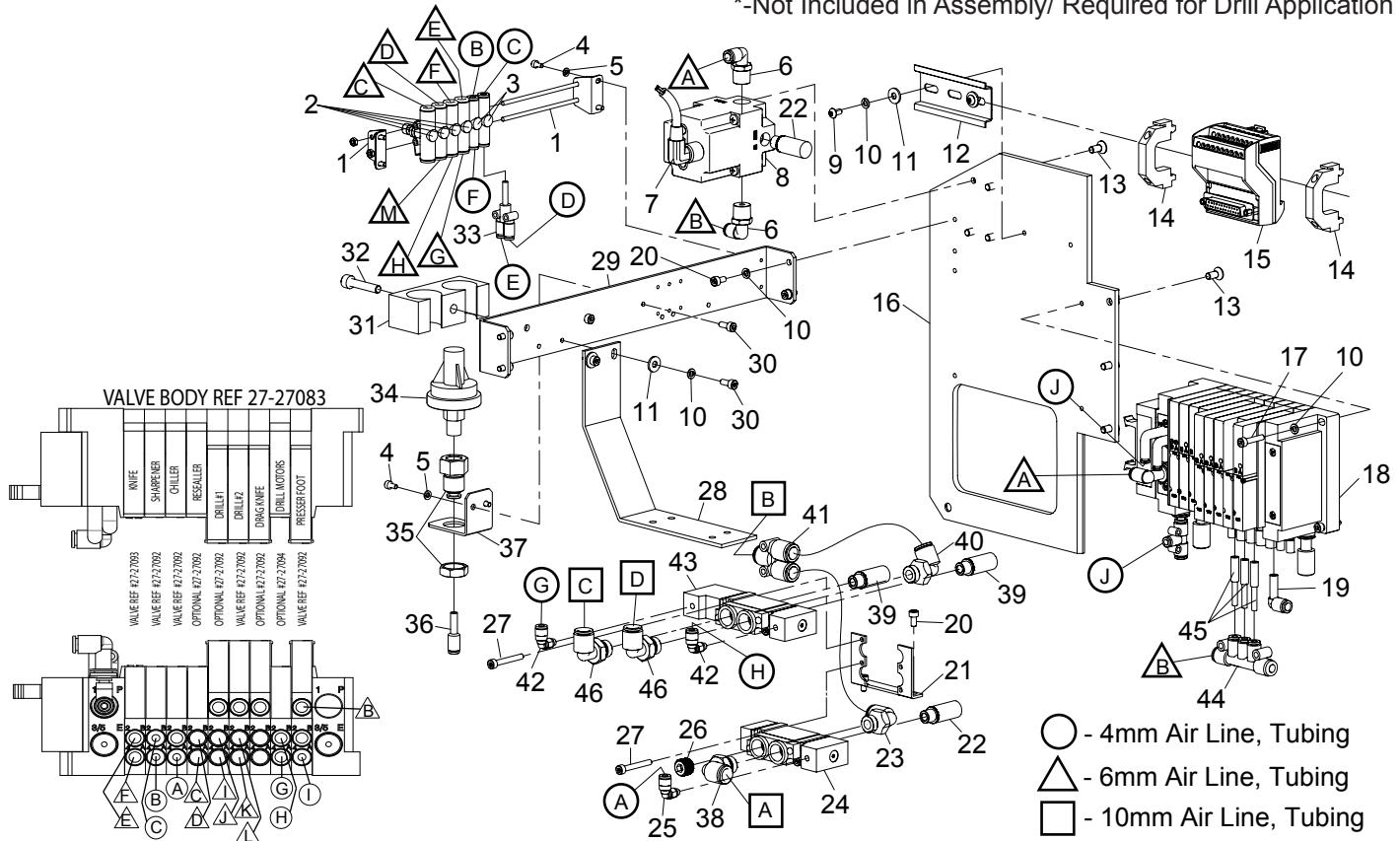
Raptor Valve/Terminal Assembly

68-26603-1

| Item | Part No. | Description | Qty. |
|------|------------|-------------------------------|------|
| 1 | 27-27087 | Flow Control Mtg Kit, 6 Stati | 1 |
| 2 | 27-27077 | Flow Control Valve Ø6mm | 4 |
| 3 | 27-27078 | Flow Control Valve Ø4mm | 2 |
| 4 | 335-M3-6 | Screw,Skt.Hd. M3-.5 X 6 | 6 |
| 5 | 402-M3 | Washer, Lock M3 | 6 |
| 6 | 100-13-37 | Elbow Connector,Male Ø6mm | 2 |
| 7 | 27-27091-1 | Cable Qd For 27-27091 | 1 |
| 8 | 27-27091 | Electro-Pneumatic Regulator | 1 |
| 9 | 333-M4-8 | Screw, Skt. Btn. M4-0.7 x 8 | 2 |
| 10 | 402-M4 | Washer, Lock M4 | 12 |
| 11 | 410-M4 | Washer, Flt M4 | 4 |
| 12 | 31-00739-3 | 3" Terminal Mount | 1 |
| 13 | 332-M5-12 | Screw,Skt.Flt.Hd. M5-.8 X 12 | 7 |
| 14 | 31-26227 | End Anchor,1492-ea35 | 2 |
| 15 | 31-27157 | Interface Module | 1 |
| 16 | 54-28419-1 | Panel Plate | 1 |
| 17 | 335-M4-20 | Screw,Skt.Hd. M4-.7 X 20 | 4 |
| 18 | 27-27083 | Valve Base Assy | 1 |
| 19 | 100-13-40 | Elbow Plug-In 6mm Male | 1 |
| 20 | 335-M4-8 | Screw,Skt.Hd. M4-.7 X 8 | 6 |
| 21 | 54-28702 | Valve Bracket | 1 |
| 22 | 100-19-60 | Breather Vent 1/8" | 2 |
| 23 | 100-13-44 | Elbow, Male Ø10mm | 2 |

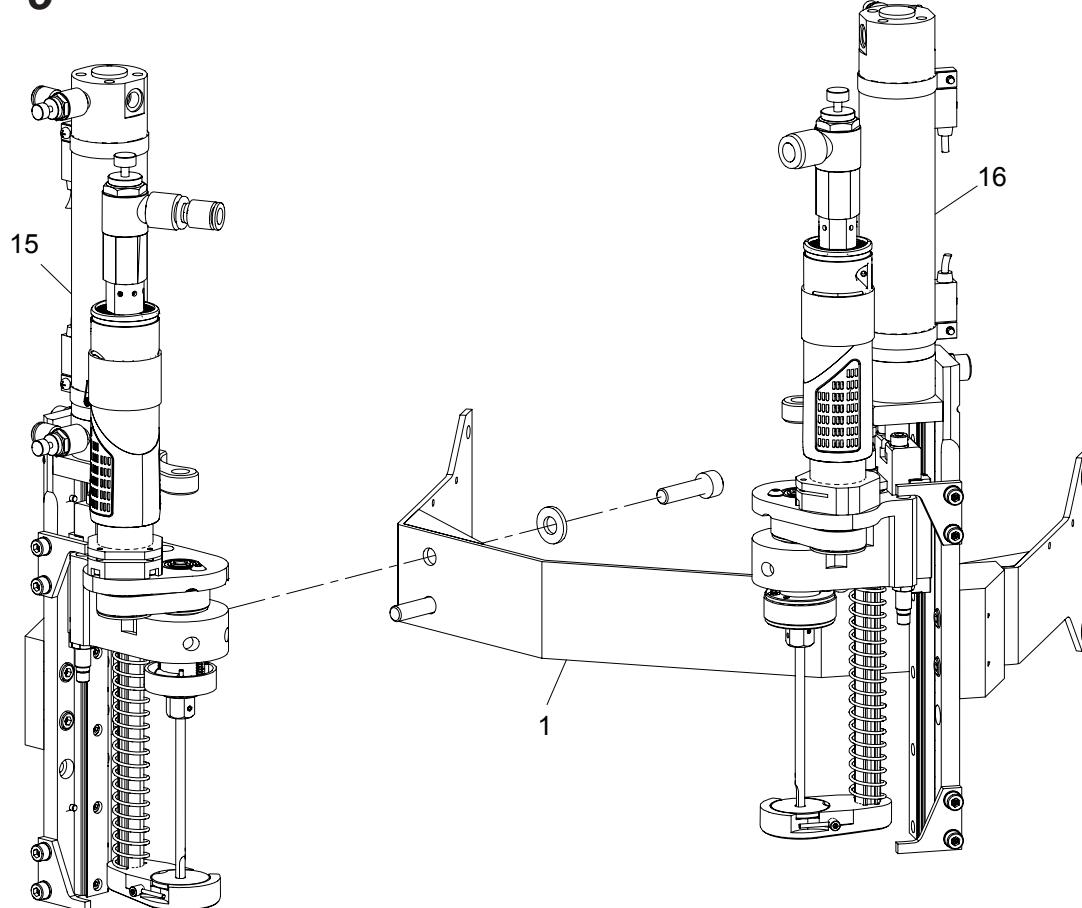
| Item | Part No. | Description | Qty. |
|------|-----------|-----------------------------|------|
| 24 | 27-27085 | Valve,2 Pos, Air Pilot | 1 |
| 25 | 27-26073 | Connector,Male Elbow Ø4mm | 1 |
| 26 | 100-19-56 | Plug, 1/4 Bspt, Hex Socket | 1 |
| 27 | 335-M4-30 | Screw,Skt.Hd. M4-.7 X 30 | 4 |
| 28 | 54-28658 | Cable Mtg Guide | 1 |
| 29 | 54-28657 | Flow Control Brkt | 1 |
| 30 | 335-M4-10 | Screw,Skt.Hd. M4-.7 X 10 | 4 |
| 31 | 54-28703 | Cable Double Clamp | 1 |
| 32 | 335-M6-30 | Screw,Skt.Hd. M6-1 X 30 | 1 |
| 33 | 100-15-3 | Y-Branch Union, Ø6mm | 2 |
| 34 | 31-27294 | Pressure Switch | 1 |
| 35 | 100-11-35 | Bulkhead, Female Ø3/16" | 1 |
| 36 | 100-11-36 | Connector, Ø3/16 | 1 |
| 37 | 54-28791 | Pressure Switch Brkt | 1 |
| 38 | 100-13-36 | Elbow Connector,Male Ø3/8 | 1 |
| 39* | 100-19-60 | Breather Vent 1/8" | 2 |
| 40* | 100-13-44 | Elbow, Male Ø10mm | 3 |
| 41* | 100-15-5 | Y-Branch Union, 10mm | 1 |
| 42* | 27-26073 | Connector,Male Elbow Ø4mm | 2 |
| 43* | 27-27086 | Valve,3 Pos | 1 |
| 44* | 100-19-58 | Fitting Manifold Ø6-3X4-6mm | 1 |
| 45* | 100-11-27 | Male Adaptor Ø4-6mm | 3 |
| 46* | 100-13-36 | Elbow Connector,Male Ø3/8 | 2 |

*-Not Included in Assembly/ Required for Drill Application



Raptor Drill Assembly LH&RH

68-26627-3



| Item | Part No. | Description | Qty. |
|------|------------|-----------------------------|------|
| 1 | 54-28421-1 | Drill Mtg Brkt | 1 |
| (2) | 27-27094 | Valve,5 Ports,3Pos Ctr | 1 |
| (3) | 27-27086 | Valve,3 Pos,Exhaust Center | 1 |
| (4) | 27-26073 | Connector,Male Elbow Ø4mm | 2 |
| (5) | 100-13-36 | Elbow Connector,Male 1/4Uni | 3 |
| (6) | 335-M4-30 | Screw,Skt.Hd. M4-.7 X 30 | 2 |
| (7) | 100-19-59 | Muffler 1/8 Rc | 2 |
| (8) | 100-15-4 | Y-Branch Union, 3/8" Tube | 1 |
| (9) | 100-11-27 | Male Adaptor Ø4-Ø6mm | 3 |
| (10) | 100-19-58 | Fitting Manifold Ø6-3X4-6mm | 1 |
| (11) | 100-11-28 | Plug, Ø6mm | 2 |
| (12) | 100-11-29 | Plug, Ø4mm | 2 |
| (13) | 27-27095 | Supply Spacer Assym,Ø6mm | 1 |
| (14) | 27-27092 | Valve,5Port,2 Pos,24Vdc | 1 |
| 15 | 68-26627-1 | Raptor Drill Assembly LH | 1 |
| 16 | 68-26627-2 | Raptor Drill Assembly RH | 1 |

(-) Not Shown. Displayed in Assembly 68-26603-1

Please Specify machine voltage
and complete serial number when
ordering replacement parts.

Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

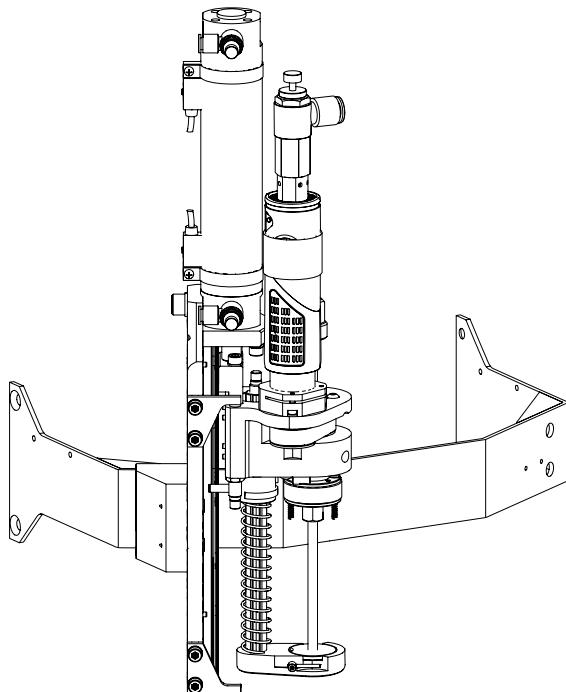
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Raptor Drill Assembly LH

68-26627-1

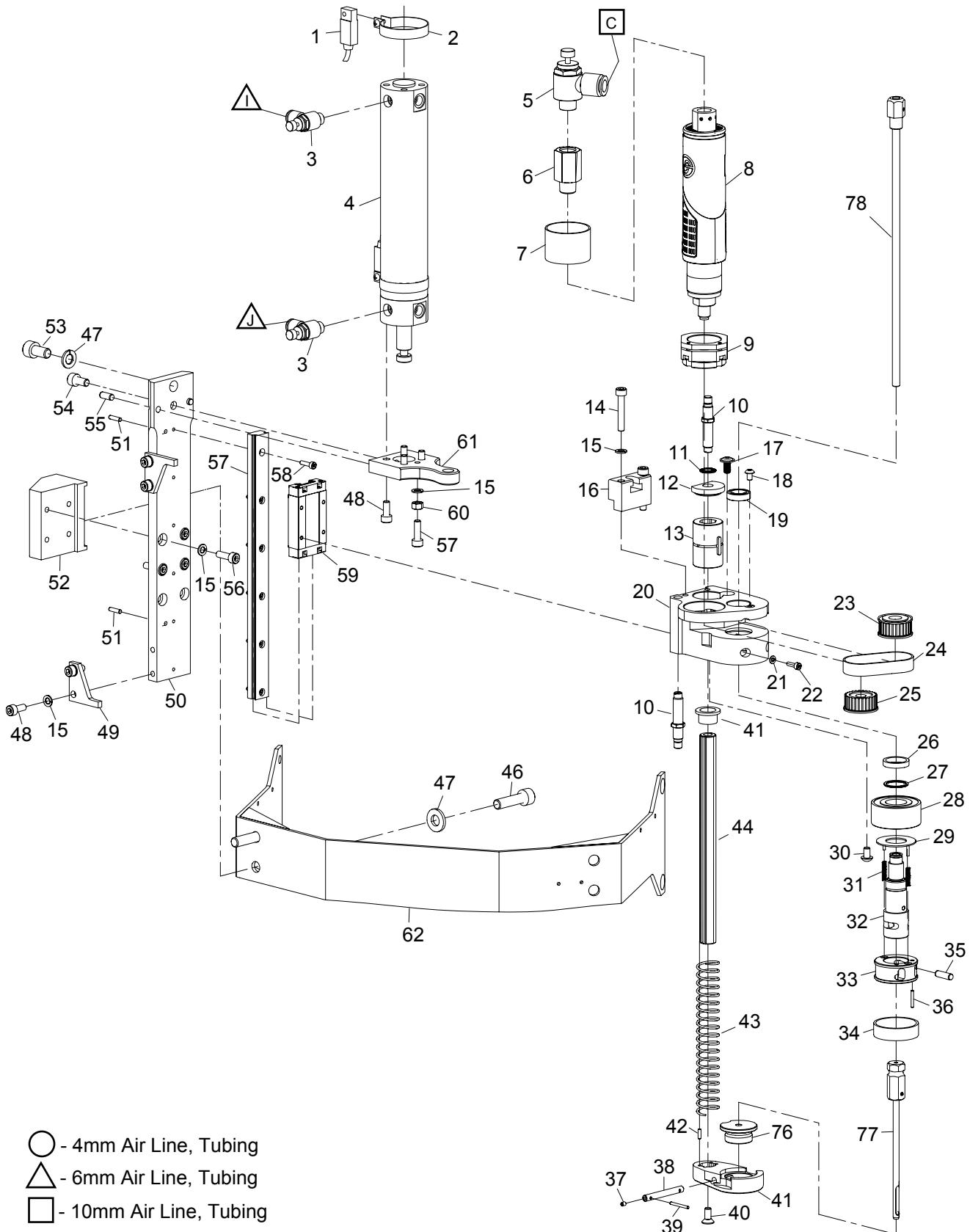
| Item | Part No. | Description | Qty. |
|------|------------|--------------------------------|------|
| 1 | 31-26783 | Cylinder Sensor (Npn) | 2 |
| 2 | 67-27129 | Switch Ø32 | 2 |
| 3 | 100-13-32 | Male Elbow Spd Ctrl Valve | 2 |
| 4 | 67-27128-1 | Air Cylinder Ø32 X 125 | 1 |
| 5 | 100-13-33 | Speed Ctrl Valve/Meter In 1/4 | 1 |
| 6 | 67-27149 | Extension Join | 1 |
| 7 | 67-27210 | Shrink Sleeve Ø1.0-2.0 | 1 |
| 8 | 67-27133 | Drill Motor, Straight,3000 Rp | 1 |
| 9 | 54-28610 | Drill Motor End Cup | 1 |
| 10 | 67-27127 | Shock Absorber M8x1 | 2 |
| 11 | 67-27135 | Serrated Belleville Washer | 1 |
| 12 | 54-28566 | Spline Stop Bar | 1 |
| 13 | 67-27126 | Ball Spline Bushing | 1 |
| 14 | 335-M5-30 | Screw,Skt.Hd. M5-.8 X 30 | 2 |
| 15 | 402-M5 | Washer, Lock M5 | 11 |
| 16 | 54-28565-1 | Cylinder Rod Mount | 1 |
| 17 | 67-27041 | Flanged Bshcs M5X10X0.8 | 2 |
| 18 | 333-M4-6 | Screw,Skt.Btn.Hd. M4-.7 X 6 | 1 |
| 19 | 67-27144 | Ball Bearing 10X19x5 | 1 |
| 20 | 54-28562-L | Drill Mounting Guide Block LH1 | |
| 21 | 335-M3-10 | Screw,Skt.Hd. M3-.5 X 10 | 6 |
| 22 | 402-M3 | Washer, Lock M3 | 4 |
| 23 | 54-28602 | Timing Pulley 3Gt (28) | 1 |
| 24 | 67-27150 | Timing Belt 3Gt-9mm | 1 |
| 25 | 54-28599 | Timing Pulley 3Gt (28) | 1 |
| 26 | 67-27170 | Washer Spacer 17 X 21 X 4 | 1 |
| 27 | 67-27146 | Retaining Ring 17mm | 1 |
| 28 | 67-27143 | Dbl Row Angular Bearing | 1 |
| 29 | 67-27145-1 | Spring Retaining Washer | 1 |
| 30 | 333-M5-8 | Screw, Button Head | 2 |
| 31 | 67-27147 | Compression Spring | 2 |
| 32 | 54-28597 | Chuck Shaft | 1 |
| 33 | 54-28598 | Chuck Collar | 1 |
| 34 | 54-28601 | Rubber Sleeve | 1 |
| 35 | 532-M3-16 | Pin, Dowel M3 X 16 | 2 |
| 36 | 532-M2-14 | Pin, Dowel M2 X 14 | 2 |
| 37 | 342-M3-4-6 | Screw,Skt.Set M3-.5 X 4 | 2 |
| 38 | 54-28660 | Bushing Release Shaft | 1 |
| 39 | 532-M2-20 | Dowel Pin, M2 X 20 | 2 |
| 40 | 332-M5-12 | Screw,Skt.Flt.Hd. M5-.8 X 12 | 1 |
| 41 | 54-28567 | Drill Press Foot | 1 |
| 42 | 532-3-5 | Pin, Dowel 3/32 X 5/16 | 4 |
| 43 | 67-27132 | Compression Spring | 1 |
| 44 | 54-28570 | Drill Spline Shaft | 1 |
| 45 | 67-27134 | Flanged Washer | 1 |
| 46 | 335-M8-30 | Screw,Skt.Hd. M8-1.25 X 30 | 2 |
| 47 | 402-M8 | Washer, Lock M8 | 3 |
| 48 | 335-M5-12 | Screw,Skt.Hd. M5-.8 X 12 | 8 |



| Item | Part No. | Description | Qty. |
|------|-------------|-----------------------------|------|
| 49 | 54-28564 | Shock Absorber Stop | 2 |
| 50 | 54-28560 | Drill Mtg Base Plate | 1 |
| 51 | 532-M3-12 | Pin, Dowel M3 X 12 | 2 |
| 52 | 54-28563-1 | Drill Mtg Block | 1 |
| 53 | 67-27169 | Screw, Skt.Hd. M8-1.0 X 15 | 2 |
| 54 | 335-M6-12 | Screw,Skt.Hd. M6-1 X 12 | 1 |
| 55 | 532-M5-12 | Pin, Dowel M5 X 12 | 2 |
| 56 | 335-M5-16 | Screw,Skt.Hd. M5-.8 X 16 | 5 |
| 57 | 67-27130 | Guide Rail | 1 |
| 58 | 335-M3-12 | Screw,Skt.Hd. M3-.5 X 12 | 6 |
| 59 | 67-27131 | Guide Bearing | 1 |
| 60 | 206-M5 | Nut, Hex M5 X 0.8 X4.0 | 1 |
| 61 | 54-28561 | Drill Cylinder Mount | 1 |
| 62 | 54-28421-1 | Drill Mtg Brkt | 1 |
| (63) | 27-27094 | Valve,5 Ports,3Pos Ctr | 1 |
| (64) | 27-27086 | Valve,3 Pos,Exhaust Center | 1 |
| (65) | 27-26073 | Connector,Male Elbow Ø4mm | 2 |
| (66) | 100-13-36 | Elbow Connector,Male 1/4Uni | 3 |
| (67) | 335-M4-30 | Screw,Skt.Hd. M4-.7 X 30 | 2 |
| (68) | 100-19-59 | Muffler 1/8 Rc | 2 |
| (69) | 100-15-4 | Y-Branch Union, 3/8" Tube | 1 |
| (70) | 100-11-27 | Male Adaptor Ø4-Ø6mm | 3 |
| (71) | 100-19-58 | Fitting Manifold Ø6-3X4-6mm | 1 |
| (72) | 100-11-28 | Plug, Ø6mm | 2 |
| (73) | 100-11-29 | Plug, Ø4mm | 2 |
| (74) | 27-27095 | Supply Spacer Assym,Ø6mm | 1 |
| (75) | 27-27092 | Valve,5Port,2 Pos,24Vdc | 1 |
| 76* | 54-28569-X | See Page 26 | |
| 77* | 54-28629-X | See Page 27 | |
| 78* | 54-28600-EX | See Page 26 | |

(-) Not Shown. Displayed in Assembly 68-26603-1

* Not Included in Assembly

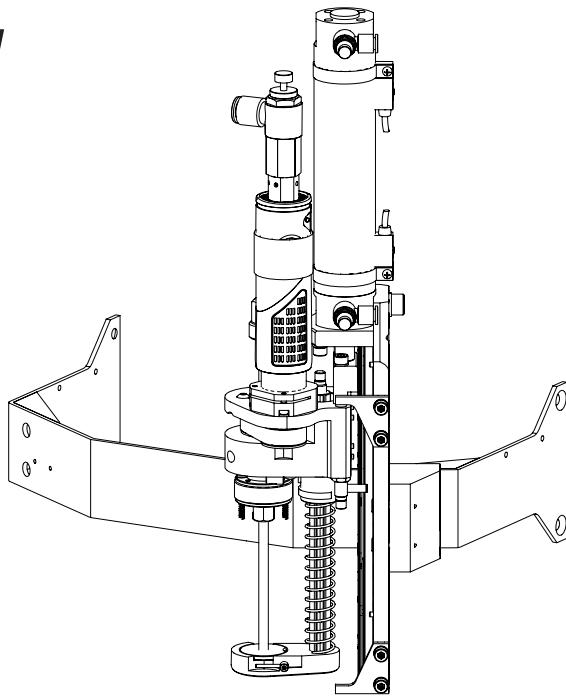


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Raptor Drill Assembly RH 68-26627-2

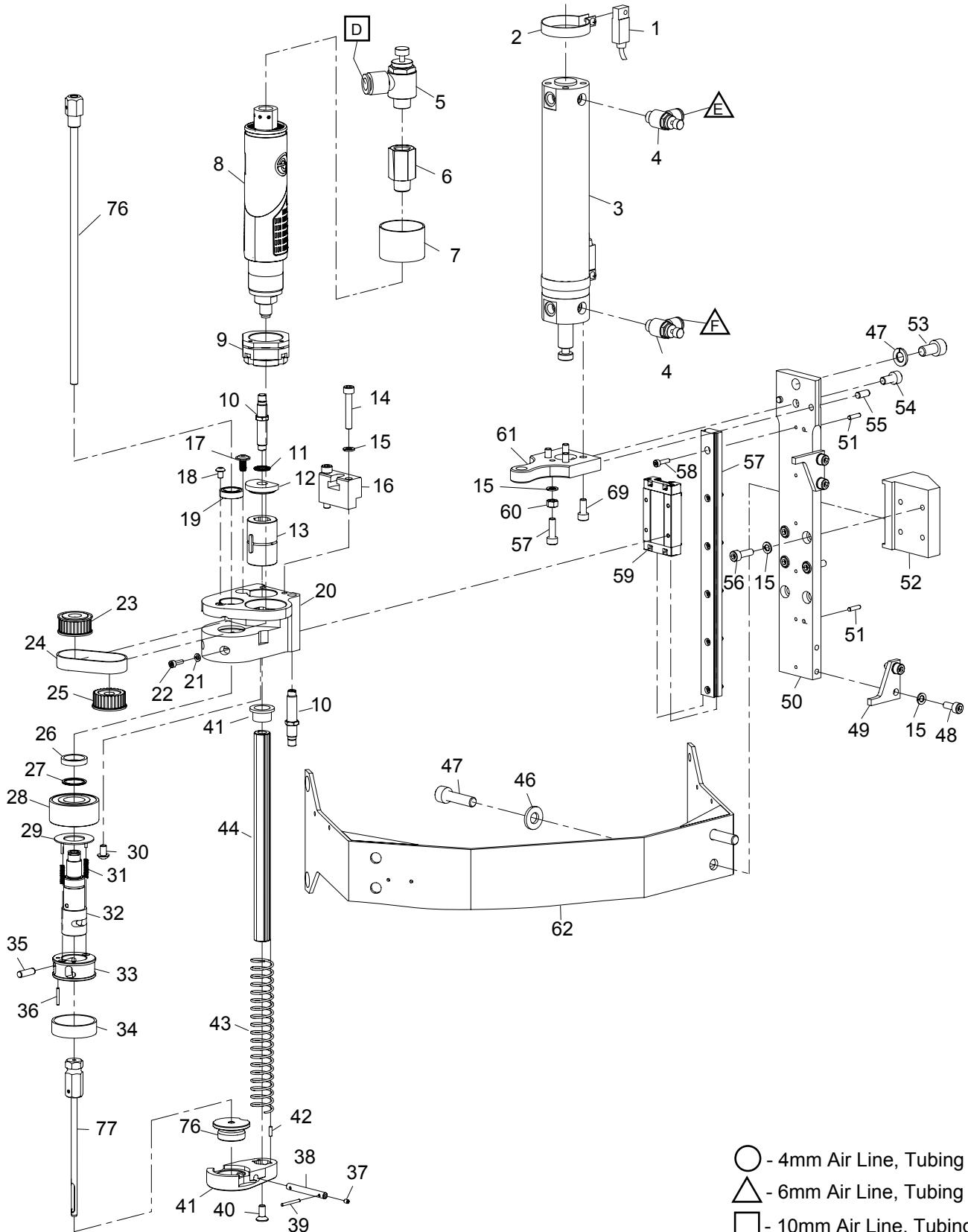
| Item | Part No. | Description | Qty. |
|------|------------|--------------------------------|------|
| 1 | 31-26783 | Cylinder Sensor (Npn) | 2 |
| 2 | 67-27129 | Switch Ø32 | 2 |
| 3 | 100-13-32 | Male Elbow Spd Ctrl Valve | 2 |
| 4 | 67-27128-1 | Air Cylinder Ø32 X 125 | 1 |
| 5 | 100-13-33 | Speed Ctrl Valve/Meter In 1/4 | 1 |
| 6 | 67-27149 | Extension Join | 1 |
| 7 | 67-27210 | Shrink Sleeve Ø1.0-2.0 | 1 |
| 8 | 67-27133 | Drill Motor, Straight,3000 Rp | 1 |
| 9 | 54-28610 | Drill Motor End Cup | 1 |
| 10 | 67-27127 | Shock Absorber M8x1 | 2 |
| 11 | 67-27135 | Serrated Belleville Washer | 1 |
| 12 | 54-28566 | Spline Stop Bar | 1 |
| 13 | 67-27126 | Ball Spline Bushing | 1 |
| 14 | 335-M5-30 | Screw,Skt.Hd. M5-.8 X 30 | 2 |
| 15 | 402-M5 | Washer, Lock M5 | 11 |
| 16 | 54-28565-1 | Cylinder Rod Mount | 1 |
| 17 | 67-27041 | Flanged Bshcs M5X10X0.8 | 2 |
| 18 | 333-M4-6 | Screw,Skt.Btn.Hd. M4-.7 X 6 | 1 |
| 19 | 67-27144 | Ball Bearing 10X19x5 | 1 |
| 20 | 54-28562-R | Drill Mounting Guide Block RH1 | |
| 21 | 335-M3-10 | Screw,Skt.Hd. M3-.5 X 10 | 6 |
| 22 | 402-M3 | Washer, Lock M3 | 4 |
| 23 | 54-28602 | Timing Pulley 3Gt (28) | 1 |
| 24 | 67-27150 | Timing Belt 3Gt-9mm | 1 |
| 25 | 54-28599 | Timing Pulley 3Gt (28) | 1 |
| 26 | 67-27170 | Washer Spacer 17 X 21 X 4 | 1 |
| 27 | 67-27146 | Retaining Ring 17mm | 1 |
| 28 | 67-27143 | Dbl Row Angular Bearing | 1 |
| 29 | 67-27145-1 | Spring Retaining Washer | 1 |
| 30 | 333-M5-8 | Screw, Button Head | 2 |
| 31 | 67-27147 | Compression Spring | 2 |
| 32 | 54-28597 | Chuck Shaft | 1 |
| 33 | 54-28598 | Chuck Collar | 1 |
| 34 | 54-28601 | Rubber Sleeve | 1 |
| 35 | 532-M3-16 | Pin, Dowel M3 X 16 | 2 |
| 36 | 532-M2-14 | Pin, Dowel M2 X 14 | 2 |
| 37 | 342-M3-4-6 | Screw,Skt.Set M3-.5 X 4 | 2 |
| 38 | 54-28660 | Bushing Release Shaft | 1 |
| 39 | 532-M2-20 | Dowel Pin, M2 X 20 | 2 |
| 40 | 332-M5-12 | Screw,Skt.Flt.Hd. M5-.8 X 12 | 1 |
| 41 | 54-28567 | Drill Press Foot | 1 |
| 42 | 532-3-5 | Pin, Dowel 3/32 X 5/16 | 4 |
| 43 | 67-27132 | Compression Spring | 1 |
| 44 | 54-28570 | Drill Spline Shaft | 1 |
| 45 | 67-27134 | Flanged Washer | 1 |
| 46 | 335-M8-30 | Screw,Skt.Hd. M8-1.25 X 30 | 2 |
| 47 | 402-M8 | Washer, Lock M8 | 3 |
| 48 | 335-M5-12 | Screw,Skt.Hd. M5-.8 X 12 | 8 |



| Item | Part No. | Description | Qty. |
|------|-------------|-----------------------------|------|
| 49 | 54-28564 | Shock Absorber Stop | 2 |
| 50 | 54-28560 | Drill Mtg Base Plate | 1 |
| 51 | 532-M3-12 | Pin, Dowel M3 X 12 | 2 |
| 52 | 54-28563-1 | Drill Mtg Block | 1 |
| 53 | 67-27169 | Screw, Skt.Hd. M8-1.0 X 15 | 2 |
| 54 | 335-M6-12 | Screw,Skt.Hd. M6-1 X 12 | 1 |
| 55 | 532-M5-12 | Pin, Dowel M5 X 12 | 2 |
| 56 | 335-M5-16 | Screw,Skt.Hd. M5-.8 X 16 | 5 |
| 57 | 67-27130 | Guide Rail | 1 |
| 58 | 335-M3-12 | Screw,Skt.Hd. M3-.5 X 12 | 6 |
| 59 | 67-27131 | Guide Bearing | 1 |
| 60 | 206-M5 | Nut, Hex M5 X 0.8 X4.0 | 1 |
| 61 | 54-28561 | Drill Cylinder Mount | 1 |
| 62 | 54-28421-1 | Drill Mtg Brkt | 1 |
| (63) | 27-27094 | Valve,5 Ports,3Pos Ctr | 1 |
| (64) | 27-27086 | Valve,3 Pos,Exhaust Center | 1 |
| (65) | 27-26073 | Connector,Male Elbow Ø4mm | 2 |
| (66) | 100-13-36 | Elbow Connector,Male 1/4Uni | 3 |
| (67) | 335-M4-30 | Screw,Skt.Hd. M4-.7 X 30 | 2 |
| (68) | 100-19-59 | Muffler 1/8 Rc | 2 |
| (69) | 100-15-4 | Y-Branch Union, 3/8" Tube | 1 |
| (70) | 100-11-27 | Male Adaptor Ø4-Ø6mm | 3 |
| (71) | 100-19-58 | Fitting Manifold Ø6-3X4-6mm | 1 |
| (72) | 100-11-28 | Plug, Ø6mm | 2 |
| (73) | 100-11-29 | Plug, Ø4mm | 2 |
| (74) | 27-27095 | Supply Spacer Assym,Ø6mm | 1 |
| (75) | 27-27092 | Valve,5Port,2 Pos,24Vdc | 1 |
| 76* | 54-28569-X | See Page 30 | |
| 77* | 54-28629-X | See Page 31 | |
| 78* | 54-28600-EX | See Page 30 | |

(-) Not Shown. Displayed in Assembly 68-26603-1

*-Not Included in Assembly



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Ejector Sizes

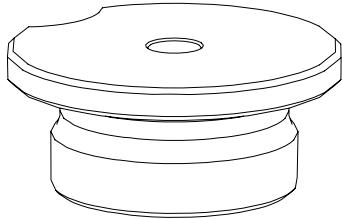
54-28600-EX

| Hole Size | Part no. | Description |
|-----------|-------------|----------------|
| 1mm | 54-28600-E1 | Ejector Ø1.0mm |
| 2mm | 54-28600-E2 | Ejector Ø2.0mm |
| 6mm | 54-28600-E6 | Ejector Ø6.0mm |



Drill Bushing Sizes

54-28569-X

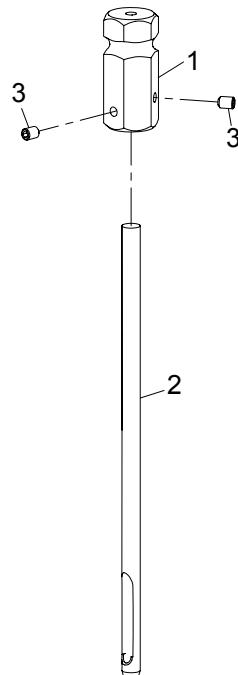


| Hole Size | Part no. | Description |
|-----------|--------------|------------------------|
| .055" | 54-28569-055 | Drill Bushing, .055" |
| .070" | 54-28569-070 | Drill Bushing, .070" |
| .093" | 54-28569-093 | Drill Bushing, .093" |
| .125" | 54-28569-125 | Drill Bushing, .125" |
| .156" | 54-28569-156 | Drill Bushing, .156" |
| .187" | 54-28569-187 | Drill Bushing, .187" |
| .250" | 54-28569-250 | Drill Bushing, .250" |
| .312" | 54-28569-312 | Drill Bushing, .312" |
| .375" | 54-28569-375 | Drill Bushing, .375" |
| 1mm | 54-28569-1 | Drill Bushing, Ø1.0mm |
| 2mm | 54-28569-2 | Drill Bushing, Ø2.0mm |
| 3mm | 54-28569-3 | Drill Bushing, Ø3.0mm |
| 4mm | 54-28569-4 | Drill Bushing, Ø4.0mm |
| 5mm | 54-28569-5 | Drill Bushing, Ø5.0mm |
| 6mm | 54-28569-6 | Drill Bushing, Ø6.0mm |
| 7mm | 54-28569-7 | Drill Bushing, Ø7.0mm |
| 8mm | 54-28569-8 | Drill Bushing, Ø8.0mm |
| 9mm | 54-28569-9 | Drill Bushing, Ø9.0mm |
| 10mm | 54-28569-10 | Drill Bushing, Ø10.0mm |
| 11mm | 54-28569-11 | Drill Bushing, Ø11.0mm |
| 12mm | 54-28569-12 | Drill Bushing, Ø12.0mm |
| 13mm | 54-28569-13 | Drill Bushing, Ø13.0mm |
| 14mm | 54-28569-14 | Drill Bushing, Ø14.0mm |
| 15mm | 54-28569-15 | Drill Bushing, Ø15.0mm |
| 16mm | 54-28569-16 | Drill Bushing, Ø16.0mm |
| 17mm | 54-28569-17 | Drill Bushing, Ø17.0mm |
| 18mm | 54-28569-18 | Drill Bushing, Ø18.0mm |

Drill Sizes

54-28629-X

| Item | Part No. | Description | Qty. |
|------|-----------|------------------------------|------|
| 1 | See Chart | Drill Adapter | 1 |
| 2 | See Chart | Drill | 1 |
| 3 | 342-M3-4 | Screw,Skt.Set M3-.5 X 4 Flat | 2 |



| Hole Size | Drill no.(2) | Description | Adapter no.(1) | Assembly no. |
|--------------|--------------|------------------------------|----------------|---------------|
| 3/32"(.094") | 54-28631-093 | 3/32" Closed End Drill Ass'y | 54-28636-093 | 54-28629-H093 |
| 1/8"(.125") | 54-28631-125 | 1/8" Closed End Drill Ass'y | 54-28636-125 | 54-28629-H125 |
| 5/32"(.156") | 54-28631-156 | 5/32" Closed End Drill Ass'y | 54-28636-156 | 54-28629-H156 |
| 3/16"(.187") | 54-28631-187 | 3/16" Closed End Drill Ass'y | 54-28636-187 | 54-28629-H187 |
| 1/4"(.250") | 54-28631-250 | 1/4" Closed End Drill Ass'y | 54-28636-250 | 54-28629-H250 |
| 5/16"(.312") | 54-28631-312 | 5/16" Closed End Drill Ass'y | 54-28636-312 | 54-28629-H312 |
| 3/8"(.375") | 54-28631-375 | 3/8" Closed End Drill Ass'y | 54-28636-375 | 54-28629-H375 |
| 3/64"(.047") | 54-28630-055 | 3/64" Solid Drill Ass'y | 54-28636-055 | 54-28629-S055 |
| 5/64"(.078") | 54-28630-070 | 5/64" Solid Drill Ass'y | 54-28636-070 | 54-28629-S070 |
| 3/32"(.094") | 54-28630-093 | 3/32" Solid Drill Ass'y | 54-28636-093 | 54-28629-S093 |
| 1/8"(.125") | 54-28630-125 | 1/8" Solid Drill Ass'y | 54-28636-125 | 54-28629-S125 |
| 1mm(.039") | 54-28630-M1 | 1mm Solid Drill Ass'y | 54-28636-M1 | 54-28629-S1 |
| 2mm(.078") | 54-28630-M2 | 2mm Solid Drill Ass'y | 54-28636-M2 | 54-28629-S2 |
| 3mm(.118") | 54-28630-M3 | 3mm Solid Drill Ass'y | 54-28636-M3 | 54-28629-S3 |
| 4mm(.157") | 54-28630-M4 | 4mm Solid Drill Ass'y | 54-28636-M4 | 54-28629-S4 |
| 5mm(.196") | 54-28630-M5 | 5mm Solid Drill Ass'y | 54-28636-M5 | 54-28629-S5 |

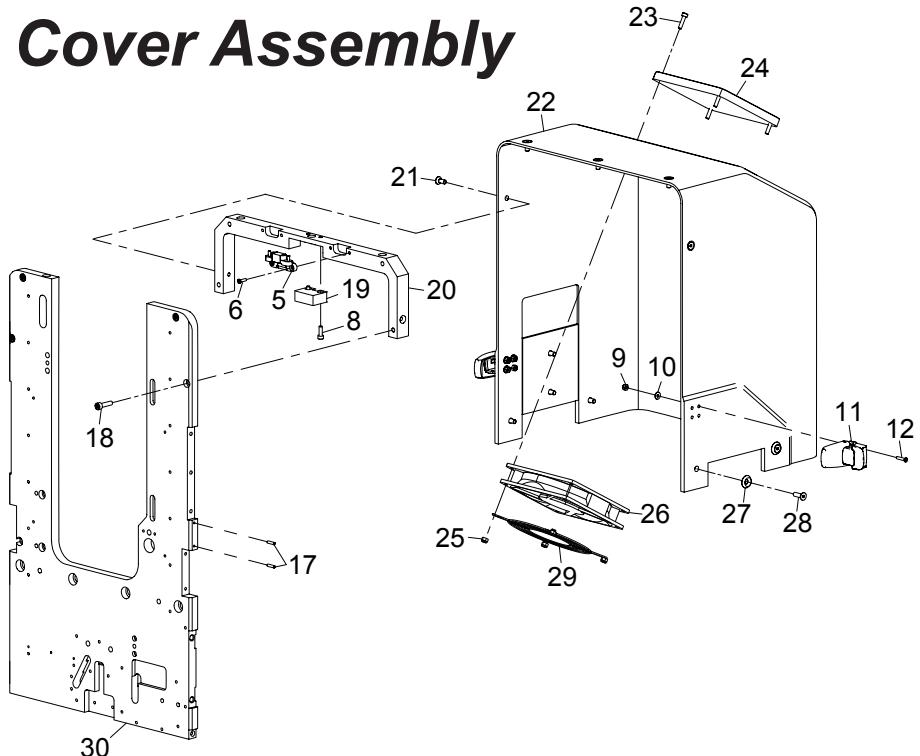
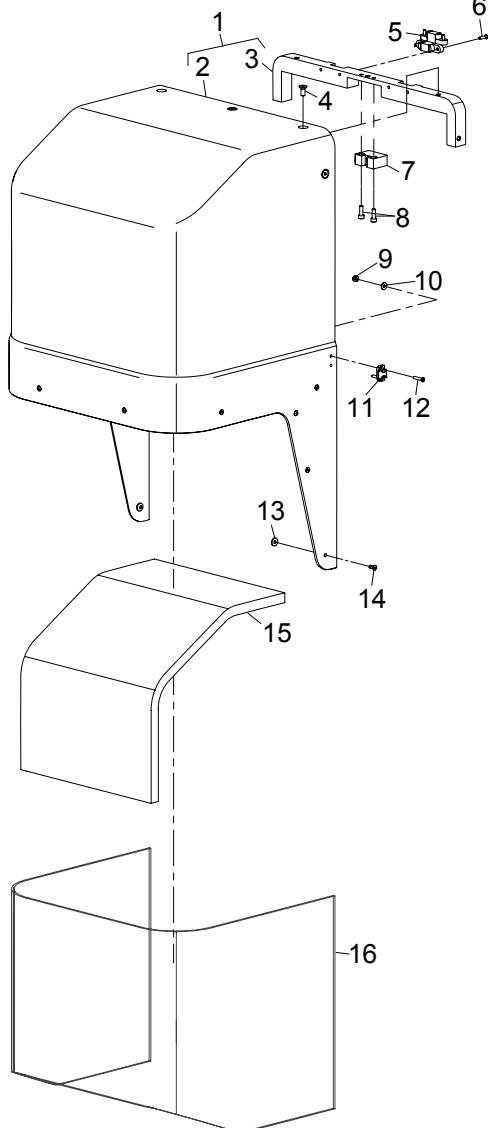
Note: Actual hole size in material will vary depending on material being drilled. Consult factory for test drilling of your material for exact size specifications.

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Raptor Toolhead Cover Assembly

68-26599



| Item | Part No. | Description | Qty. |
|------|------------|------------------------------|------|
| 1 | 54-28510 | Toolhead Cover Front | 1 |
| 2 | 54-28510-2 | Toolhead Cover Front-Shell | 1 |
| 3 | 54-28510-3 | Front Cover Hinge Mtg Insert | 1 |
| 4 | 332-M5-12 | Screw,Skt.Flt.Hd. M5-.8 X 12 | 5 |
| 5 | 67-27086 | Hinge | 2 |
| 6 | 332-M3-12 | Screw,Skt.Flt.Hd. M3-.5 X 12 | 8 |
| 7 | 67-27089 | Magnetic Switch Actuator | 1 |
| 8 | 335-M4-12 | Screw,Skt.Hd. M4-.7 X 12 | 4 |

| Item | Part No. | Description | Qty. |
|------|--------------|------------------------------|------|
| 9 | 211-M3 | Nut,Metric Elastic M3 | 12 |
| 10 | 401-M3-D9021 | Washer, 3 X 9 X 0.8 | 12 |
| 11 | 67-27087 | Draw Latch | 2 |
| 12 | 332-M3-16 | Screw,Skt.Flt.Hd. M3-.5 X 16 | 12 |
| 13 | 410-M3 | Washer, Flt. M3 | 12 |
| 14 | 546-4-8 | Rivet, Pop | 12 |
| 15 | 67-27165-1 | Cover Acoustic Foam | 1 |
| 16 | 54-28510-1 | Front Cover Translucent | 1 |
| 17 | 342-M3-12 | Screw,Skt.Set M3-.5 X 4 | 4 |
| 18 | 335-M5-20 | Screw,Skt.Hd. M5-.8 X 20 | 4 |
| 19 | 31-27245 | Door Disconnect Cable | 1 |
| 20 | 64-28509-3 | Rear Cover Hinge Mtg Insert | 1 |
| 21 | 332-M5-12 | Screw,Skt.Flt.Hd. M5-.8 X 12 | 5 |
| 22 | 54-28509 | Toolhead Cover Rear | 1 |
| 23 | 335-M4-16 | Screw,Skt.Hd. M4-.7 X 16 | 4 |
| 24 | 31-27247-1 | Fan Filter | 1 |
| 25 | 211-M4 | Nut,Metric Elastic M4 | 4 |
| 26 | 31-27247 | Fan Assy | 1 |
| 27 | 67-27085 | Countersunk Washer (M5) | 6 |
| 28 | 332-M5-16 | Screw,Skt.Flt.Hd. M3-.8 X 16 | 6 |
| 29 | 31-27247-3 | Fan Finger Guard | 1 |
| 30* | 54-28362 | Tool Base Plate | 1 |

*-Not Included In Assembly

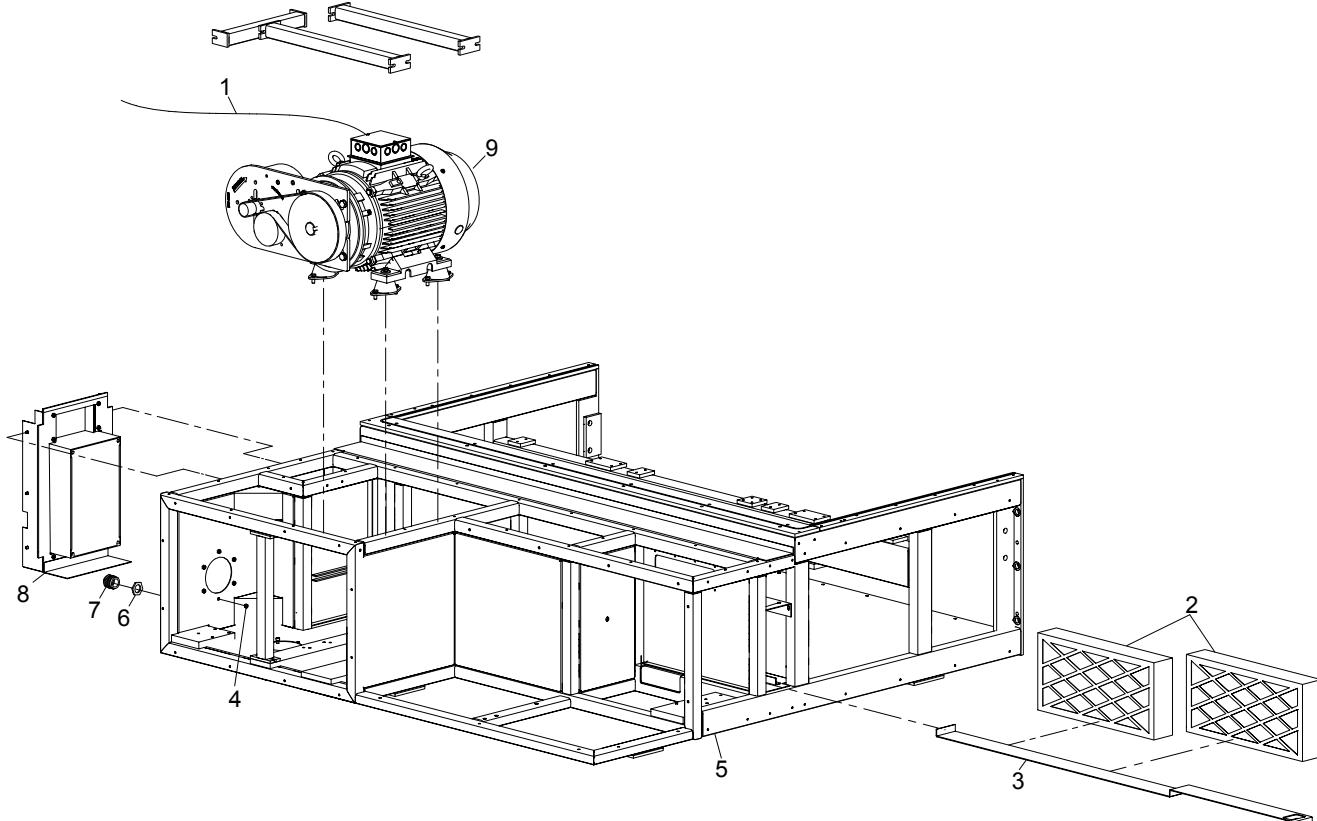
Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

Vacuum Chamber Assembly

68-26555

| Item | Part No. | Description | Qty. |
|------|--------------|----------------------------|-------|
| 1 | 70-03015 | Cable 600v | 3.5ft |
| 2 | 67-27010 | Air, Filter, Pleated | 2 |
| 3 | 54-28296 | Filter Bracket | 1 |
| 4 | 175C1-25 | Insert, Captive Hex Nut M8 | 6 |
| 5* | 54-28301 | Machine Base Frame | 1 |
| 6* | 68-26558 | Inverter Control Assy | 1 |
| 7* | 67-26749 | Strain Relief | 1 |
| 8* | 67-26753 | PG29 Lock Nut | 1 |
| 9* | 68-26557-30E | Blower Motor Assembly 30HP | 1 |
| | 68-26557-40E | Blower Motor Assembly 40HP | 1 |

*Not Included in Assembly



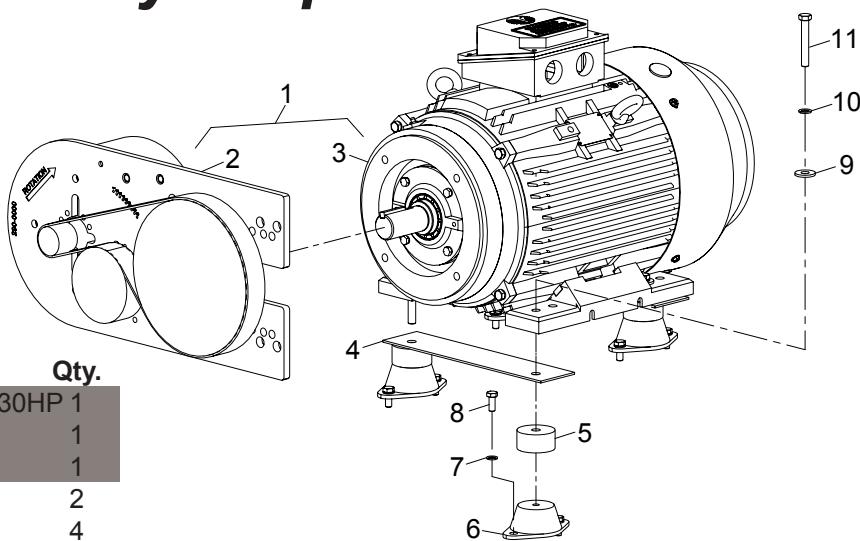
Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

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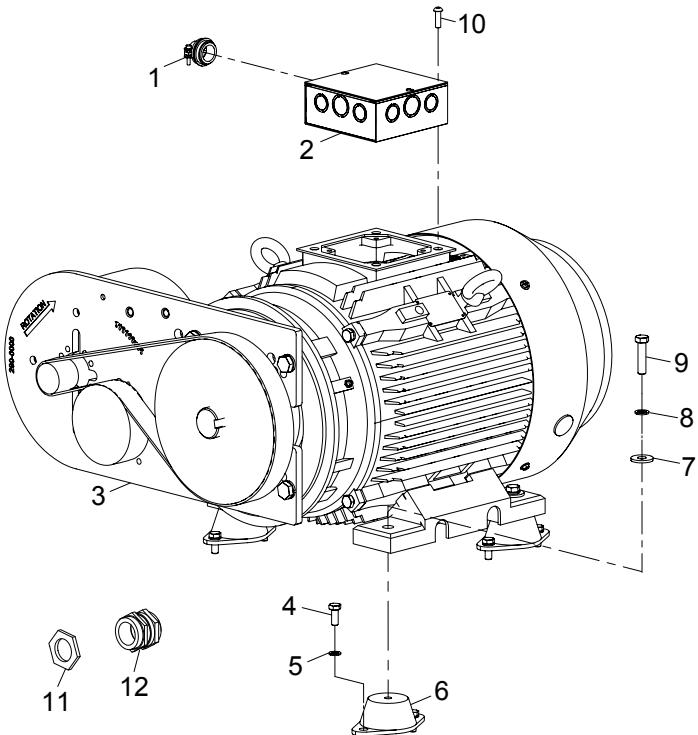
Blower Motor Assembly 30hp 68-26557-30 E

| Item | Part No. | Description | Qty. |
|------|------------|-----------------------------|------|
| 1 | 68-26557 | Blower Motor Assembly 30HP | 1 |
| 2 | 67-27008 | Blower Retro Kit | 1 |
| 3 | 67-27007 | AC Motor 30HP | 1 |
| 4 | 54-28294 | Motor Mounting Spacer | 2 |
| 5 | 54-28295 | Spacer, Blower 30HP | 4 |
| 6 | 67-27009 | Compression Mount | 4 |
| 7 | 402-M10 | Washer, Lock M10 | 8 |
| 8 | 331-M10-25 | Screw, Hex, Hd. M10-1.5x25 | 8 |
| 9 | 410-M12 | Washer, Flt M12 | 4 |
| 10 | 402-M12 | Washer, Lock M12 | 4 |
| 11 | 331-M12-80 | Screw, Hex, Hd. M12-1.75x80 | 4 |



Blower Motor Assembly 40hp 68-26557-40 E

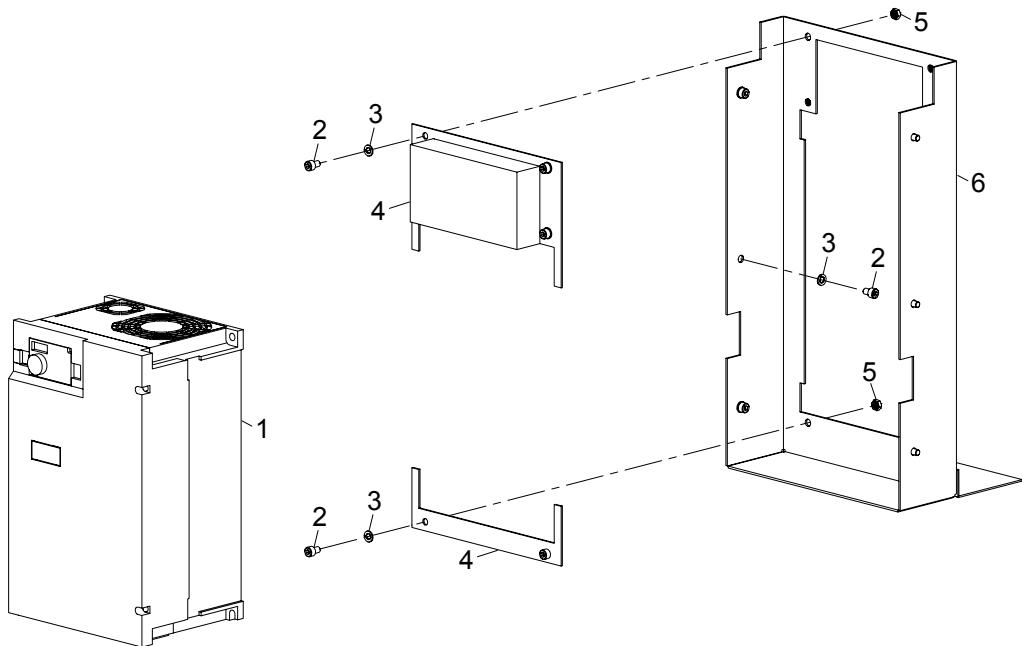
| Item | Part No. | Description | Qty. |
|------|-------------|-----------------------------|------|
| 1 | 31-26139-1 | 1" Cable Clamp | 1 |
| 2 | 54-28689 | Mount Junction Box | 1 |
| 3 | 68-26557-40 | Blower Motor Assembly 40HP | 1 |
| 4 | 331-M10-25 | Screw, Hex, Hd. M10-1.5x25 | 8 |
| 5 | 402-M10 | Washer, Lock M10 | 8 |
| 6 | 67-27009 | Compression Mount | 4 |
| 7 | 410-M12 | Washer, Flt M12 | 4 |
| 8 | 402-M12 | Washer, Lock M12 | 4 |
| 9 | 331-M12-50 | Screw, Hex, Hd. M12-1.75x50 | 4 |
| 10 | 333-37-8 | Screw, Btn, Hd. 5/16-24x1/2 | 4 |
| 11 | 67-26753 | PG29 Lock Nut | 1 |
| 12 | 67-26749 | Strain Relief | 1 |



Inverter Control Assembly

68-26558

| Item | Part No. | Description | Qty. |
|------|-------------|----------------------------|------|
| 1 | 31-26389-19 | VFD F700 40HP | 1 |
| 2 | 335-M8-12 | Screw, Hex, Hd. M8-1.25x12 | 12 |
| 3 | 402-M8 | Washer, Lock M8 | 12 |
| 4 | 67-27011 | Inverter Ctrl Mtg Kit | 1 |
| 5 | 175C1-25 | Insert, Captive Hex Nut M8 | 6 |
| 6 | 54-28262 | Inverter Control Mtg Panel | 1 |



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Machine Frame Assembly

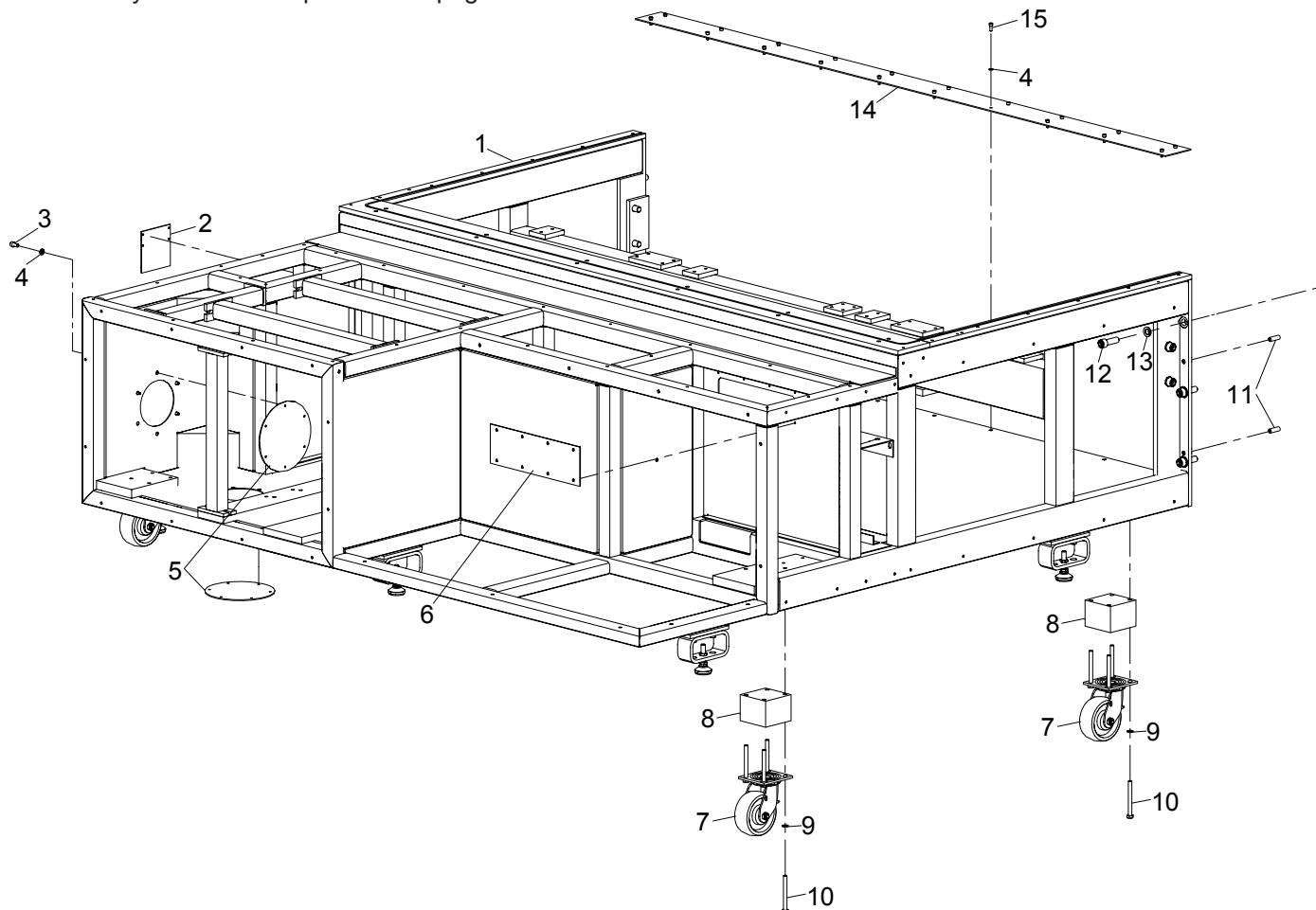
68-26541

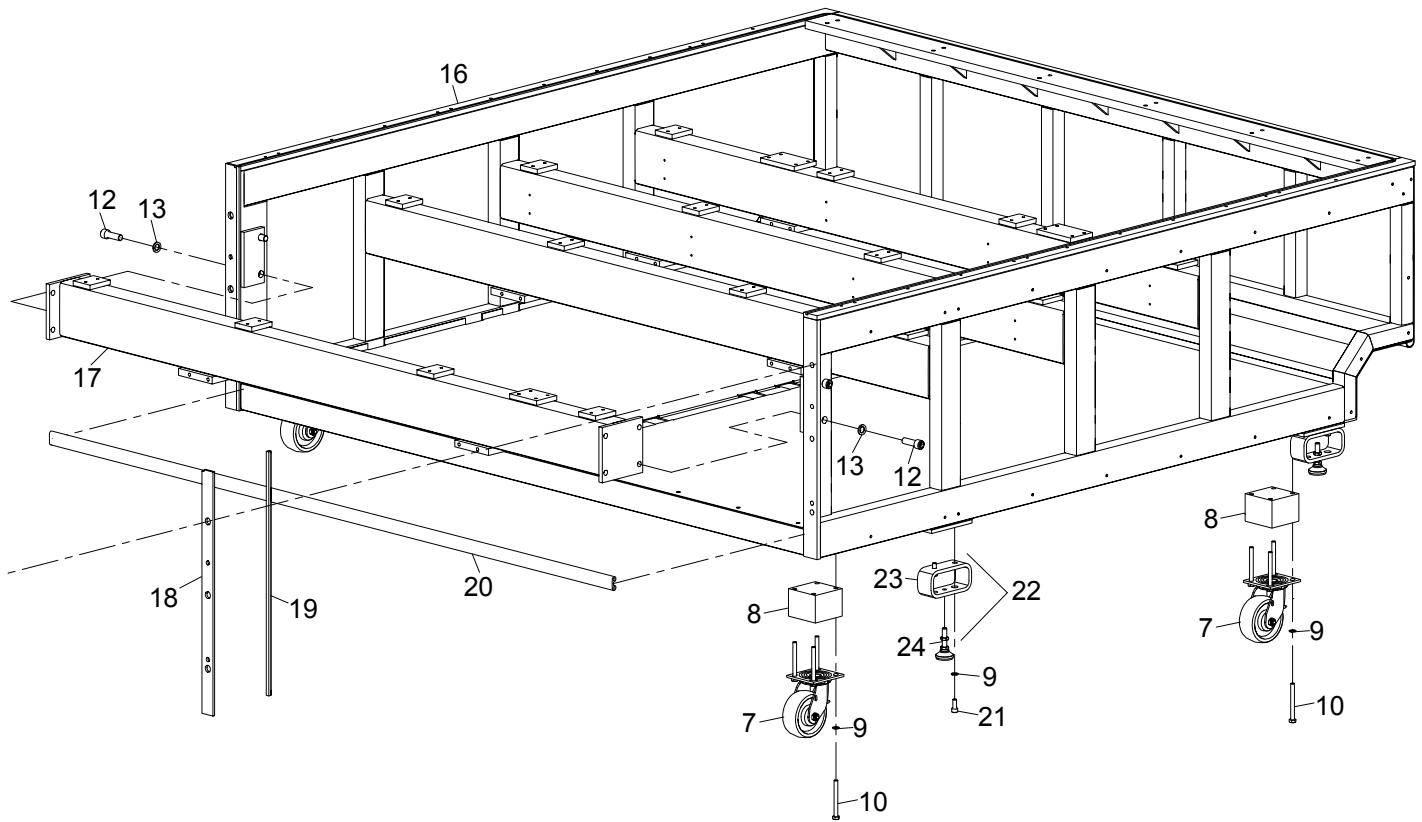
| Item | Part No. | Description | Qty. |
|------|-------------|-----------------------------|------|
| 1 | 54-28301 | Machine Base Frame | 1 |
| 2 | 54-28677 | Side Cover | 1 |
| 3 | 335-M6-12 | Screw,Skt.Hd. M6-1 X 12 | 6 |
| 4 | 402-M6 | Washer, Lock M6 | 26 |
| 5 | 54-28216 | Exhaust Cover | 1 |
| 6 | 54-28678 | Blastgate Cover | 1 |
| 7 | 67-26992 | Swivel Caster (5.0"Dia) | 6 |
| 8 | 54-28802 | Transport Wheel Spacer | 8 |
| 9 | 402-M10 | Washer, Lock M10 | 50 |
| 10 | 331-M10-100 | Screw,Skt.Hd. M10-1.5 X 100 | 32 |
| 11 | 67-26996 | Pull-Out Pin M12x36-M6x1 | 4 |
| 12 | 335-M16-50 | Screw,Skt.Hd. M16-2 X 50 | 14 |
| 13 | 402-M16 | Washer, Lock M16 | 14 |
| 14 | 54-28215 | Frame Connecting Strip | 1 |
| 15 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 20 |

| Item | Part No. | Description | Qty. |
|------|------------|-------------------------------|------|
| 16 | 54-28302 | Machine Conveyor Frame | 1 |
| 17 | 54-28303 | Connecting Beam | 1 |
| 18 | 54-28218 | Frame Seal Spacer | 2 |
| 19 | 67-26993 | Adhesive Back Foam Rubber 5Ft | |
| 20 | 67-26994 | Adhesive Back Foam Rubber 1 | |
| 21 | 335-M10-25 | Screw,Skt.Hd. M10-1.5 X 25 | 18 |
| 22* | 68-26549 | Leveling Pad Mount Assy | 9 |
| 23* | 54-28217 | Leveling Foot Mount | 9 |
| 24* | 67-26991 | Leveling Mount M12x1.75 | 9 |

*Not Included in Assembly

Note: Item 5 is only required once. The configuration is decided by the exhaust options. See pages 82-83.





Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

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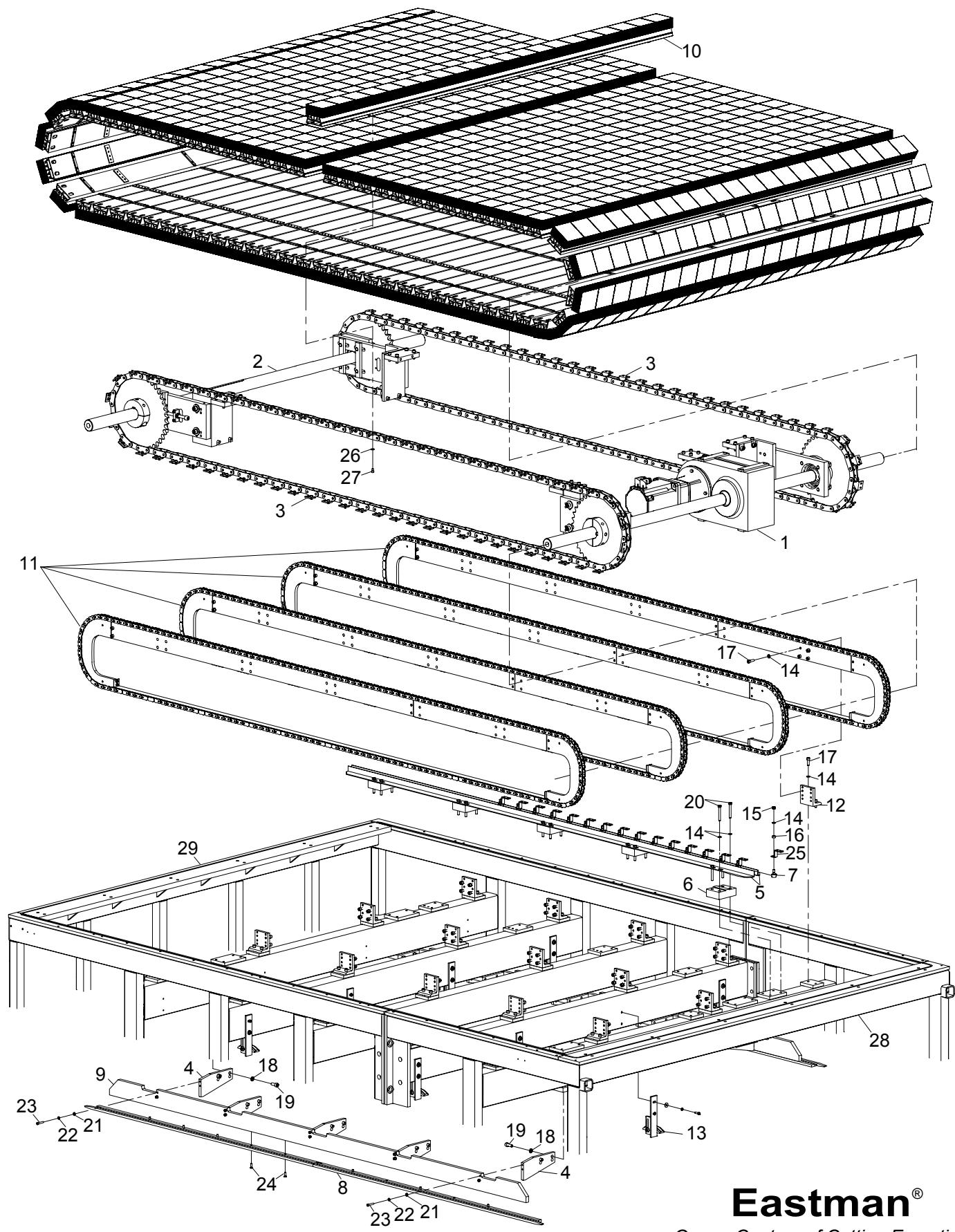
Bristle Conveyor Assembly

68-26542

| Item | Part No. | Description | Qty. |
|------|------------|---------------------------|------|
| 1 | 68-26543 | Conveyor Driving End Assy | 1 |
| 2 | 68-26544 | Conveyor Driven End Assy | 1 |
| 3 | 54-28263 | Conveyor Chain W/Att | 1 |
| 4 | 54-28243 | Suspend Brkt | 10 |
| 5 | 54-28245 | Slat Guide | 2 |
| 6 | 54-28244 | Slat Guide Spacer | 9 |
| 7 | 67-27004 | Cam Follower (19mm) | 16 |
| 8 | 54-28250 | Return Chain Guide | 2 |
| 9 | 54-28249 | Return Chain Support | 2 |
| 10 | 68-26545 | Bristle Slat Assy | 64 |
| 11 | 68-26546 | Bristle Slat Support Assy | 4 |
| 12 | 54-28248 | Chain Support Mount | 20 |
| 13 | 68-26547 | Chain Tensioner Assy | 8 |
| 14 | 402-M8 | Washer, Lock M8 | 156 |
| 15 | 203-M8 | Nut, Fin. Hex M8-1.25 | 16 |
| 16 | 54-28251 | Cam Follower Spacer | 16 |
| 17 | 335-M8-25 | Screw,Skt.Hd. M8-1.25 X 2 | 120 |
| 18 | 402-M10 | Washer, Lock M10 | 20 |
| 19 | 335-M10-25 | Screw,Skt.Hd. M10-1.5 X 2 | 20 |
| 20 | 331-M8-50 | Screw,Hex Hd. M8-1.25 X 5 | 20 |
| 21 | 401-M6 | M6 Narrow Flat Washer | 20 |
| 22 | 402-M6 | Washer, Lock M6 | 21 |
| 23 | 335-M6-30 | Screw,Skt.Hd. M6-1 X 30 | 20 |
| 24 | 332-M6-20 | Screw,Skt.Flt.Hd. M6-1 X | 2 |
| 25 | 54-28255 | Cam Follower Brkt | 16 |
| 26* | 402-M6 | Washer, Lock M6 | 128 |
| 27* | 335-M6-10 | Screw,Skt.Hd. M6-1 X 10 | 128 |
| 28* | 54-26301 | Machine Base Frame | 1 |
| 29* | 54-26302 | Machine Conveyor Frame | 1 |

*Not Included in Assembly

Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.



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Conveyor Driving End Assembly

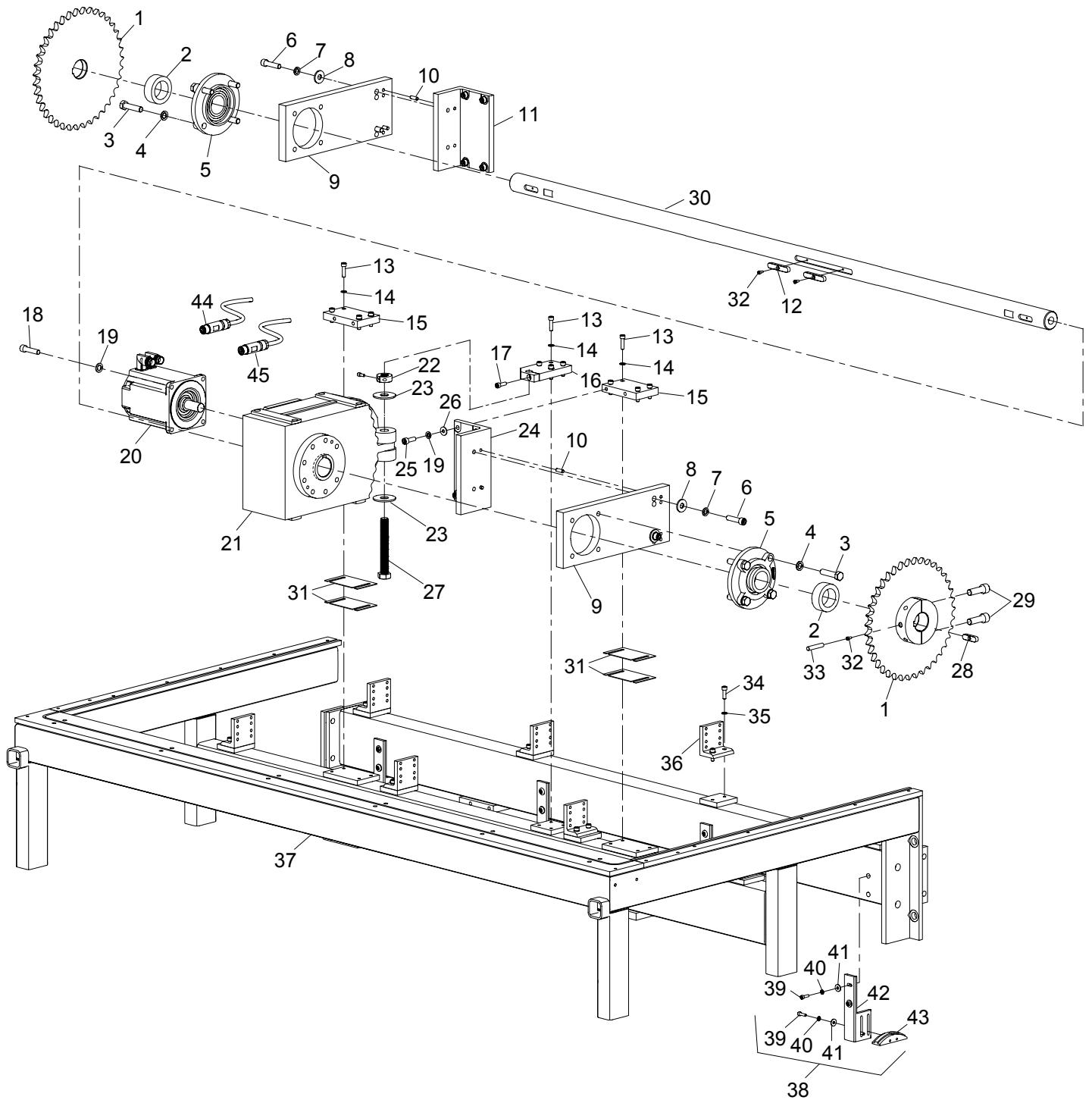
68-26543

| Item | Part No. | Description | Qty. |
|------|--------------|------------------------------|------|
| 1 | 54-28234 | Chain Sprocket | 2 |
| 2 | 54-28235 | Drive Sprocket Spacer | 2 |
| 3 | 331-M14-60 | Screw,Hex Hd. M14-2 X 60 | 8 |
| 4 | 402-M14 | Washer, Lock M14 | 8 |
| 5 | 67-26997 | Y-Bearing Unit (50mm) | 2 |
| 6 | 335-M12-50 | Screw,Skt.Hd. M12-1.75 X 50 | 4 |
| 7 | 402-M12 | Washer, Lock M12 | 4 |
| 8 | 410-M12 | Washer, Flt M12 | 4 |
| 9 | 54-28232 | Bearing Cartridge Mtg Plate | 2 |
| 10 | 532-M8-24 | Pin, Dowel M8 X 24 | 4 |
| 11 | 54-28231 | Side Plate Mtg Angle | 1 |
| 12 | 67-26999 | Parallel Key, Round | 2 |
| 13 | 335-M8-30 | Screw,Skt.Hd. M8-1.25 X 30 | 12 |
| 14 | 402-M8 | Washer, Lock M8 | 12 |
| 15 | 54-28230 | Mtg Plate Upper | 2 |
| 16 | 54-28236 | Gearbox Arm | 1 |
| 17 | 335-M8-25 | Screw,Skt.Hd. M8-1.25 X 25 | 1 |
| 18 | 335-M10-25 | Screw,Skt.Hd. M10-1.5 X 25 | 4 |
| 19 | 402-M10 | Washer, Lock M10 | 12 |
| 20 | 31-27169 | Servomotor,138mm | 1 |
| 21 | 67-26833 | In-Line Metric Shaft Reducer | 1 |
| 22 | 67-27002 | Threaded Clamping Colar | 1 |
| 23 | 67-27001 | Washer (22 X 60 X 3.4) | 2 |
| 24 | 54-28231-1 | Side Plate Mtg Angle | 1 |
| 25 | 335-M10-30 | Screw,Skt.Hd. M10-1.5 X 30 | 8 |
| 26 | 401-M10 | Washer, Narrow M10 | 8 |
| 27 | 67-27000 | Hex Bolt-Fully Threaded | 1 |
| 28 | 67-26998 | Parallel Key, Round | 2 |
| 29 | 335-M16-50 | Screw,Skt.Hd. M16-2 X 50 | 4 |
| 30 | 54-28233 | Conveyor Shaft | 1 |
| 31 | 54-28230-S | Shim | 4 |
| 32 | 335-M5-10 | Screw,Skt.Hd. M5-0.8 X 10 | 4 |
| 33 | 342-M12-30-2 | Screw,Skt.Set. M12-1.75 X 30 | 1 |
| 34* | 335-M8-25 | Screw,Skt.Hd. M8-1.25 X 25 | 8 |
| 35* | 402-M8 | Washer, Lock M8 | 8 |
| 36* | 54-28248 | Chain Support Mount | 4 |
| 37* | 54-28301 | Machine Base Frame | 1 |
| 38* | 68-26547 | Chain Tensioner Assy | 4 |
| 39* | 335-M6-20 | Screw,Skt.Hd. M6-1 X 20 | 16 |
| 40* | 402-M6 | Washer, Lock M6 | 16 |
| 41* | 410-M6 | Washer, Flat M6 | 16 |
| 42* | 54-28260 | Chain Tension Bracket | 4 |
| 43* | 54-28261 | Chain Tension Guide | 4 |
| 44 | 31-27186-MS | Conveyor Power Cable | 1 |
| 45 | 31-27187-MS | Conveyor Feedback Cable | 1 |

Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

*Not Included in Assembly

MS-Machine Size



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Conveyor Driven End Assembly

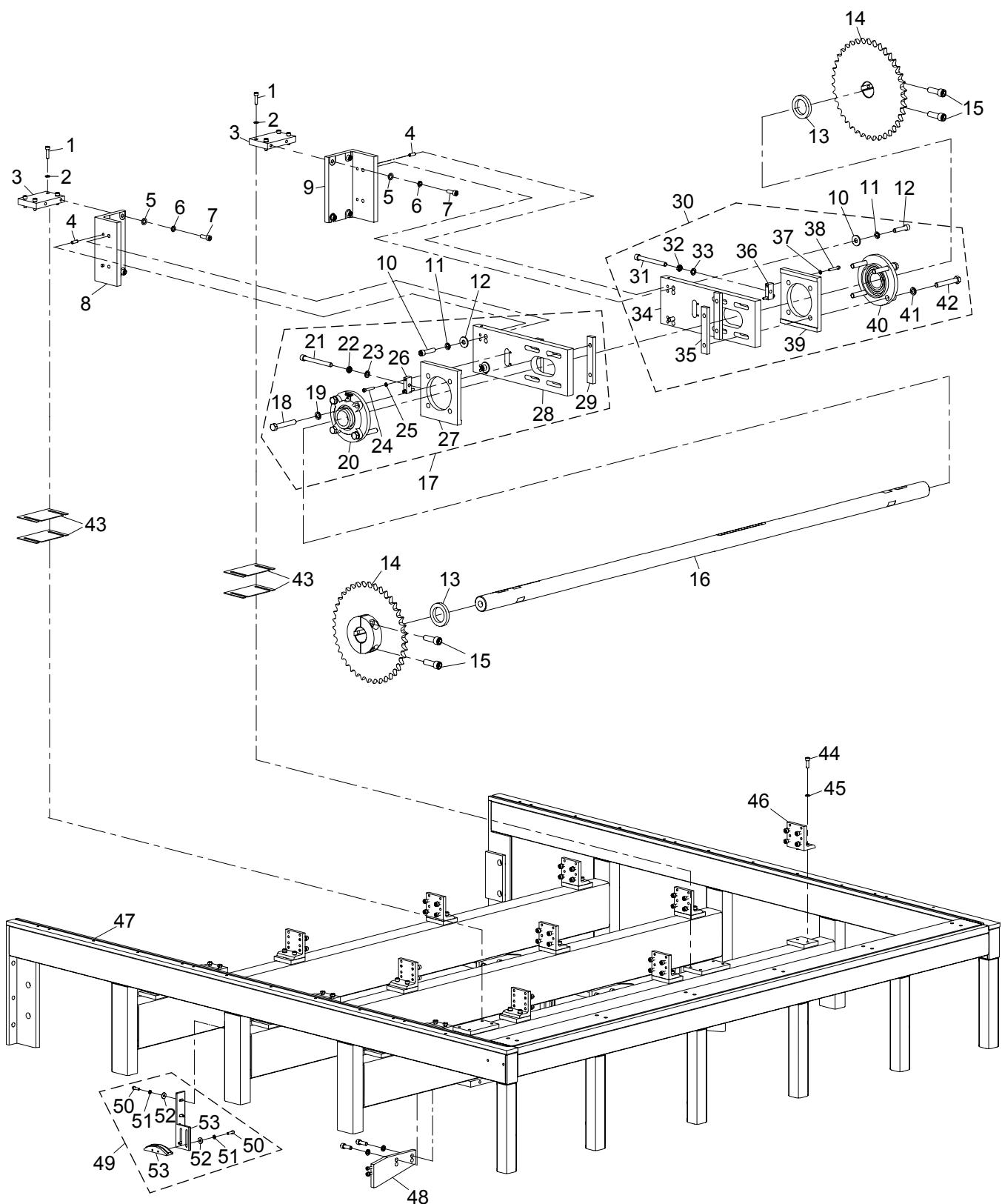
68-26544

| Item | Part No. | Description | Qty. |
|------|------------|-----------------------------|------|
| 1 | 335-M8-30 | Screw,Skt.Hd. M8-1.25 X 30 | 8 |
| 2 | 402-M8 | Washer, Lock M8 | 8 |
| 3 | 54-28230 | Mtg Plate Upper | 2 |
| 4 | 532-M8-24 | Pin, Dowel M8 X 24 | 4 |
| 5 | 401-M10 | M10 Narrow Flat Washer | 8 |
| 6 | 402-M10 | Washer, Lock M10 | 8 |
| 7 | 335-M10-30 | Screw,Skt.Hd. M10-1.5 X 30 | 8 |
| 8 | 54-28231 | Side Plate Mtg Angle | 1 |
| 9 | 54-28231-1 | Side Plate Mtg Angle | 1 |
| 10 | 335-M12-50 | Screw,Skt.Hd. M12-1.75 X 50 | 4 |
| 11 | 402-M12 | Washer, Lock M12 | 4 |
| 12 | 410-M12 | Washer, Flt M12 | 4 |
| 13 | 54-28242 | Sprocket Spacer | 2 |
| 14 | 54-28234 | Chain Sprocket | 2 |
| 15 | 335-M16-50 | Screw,Skt.Hd. M16-2 X 50 | 4 |
| 16 | 54-28233-1 | Conveyor Shaft | 1 |
| 17 | 68-26548-1 | Chain Take-Up Assy (Rh) | 1 |
| 18 | 331-M14-90 | Screw,Hex Hd. M14-2 X 90 | 4 |
| 19 | 402-M14 | Washer, Lock M14 | 4 |
| 20 | 67-26997 | Y-Bearing Unit (50mm) | 1 |
| 21 | 67-27003 | Fully Threaded Shcs | 1 |
| 22 | 206-M12 | Nut,Jam Hex M12 X 1.75 | 1 |
| 23 | 402-M12 | Washer, Lock M12 | 1 |
| 24 | 335-M6-40 | Screw,Skt.Hd. M6-1 X 40 | 2 |
| 25 | 402-M6 | Washer, Lock M6 | 2 |
| 26 | 54-28241 | Threaded Stop Bar | 1 |
| 27 | 54-28238 | Y-Bearing Mtg Plate | 1 |
| 28 | 54-28237 | Chain Take Up Mtg Plate | 1 |
| 29 | 54-28239 | Mtg Tap Bar | 2 |
| 30 | 68-26548-2 | Chain Take-Up Assy (Lh) | 1 |
| 31 | 67-27003 | Fully Threaded Shcs | 1 |
| 32 | 206-M12 | Nut,Jam Hex M12 X 1.75 | 1 |
| 33 | 402-M12 | Washer, Lock M12 | 1 |

| Item | Part No. | Description | Qty. |
|------|------------|----------------------------|------|
| 34 | 54-28237 | Chain Take Up Mtg Plate | 1 |
| 35 | 54-28239 | Mtg Tap Bar | 2 |
| 36 | 54-28241 | Threaded Stop Bar | 1 |
| 37 | 402-M6 | Washer, Lock M6 | 2 |
| 38 | 335-M6-40 | Screw,Skt.Hd. M6-1 X 40 | 2 |
| 39 | 54-28238 | Y-Bearing Mtg Plate | 1 |
| 40 | 67-26997 | Y-Bearing Unit (50mm) | 1 |
| 41 | 402-M14 | Washer, Lock M14 | 4 |
| 42 | 331-M14-90 | Screw,Hex Hd. M14-2 X 90 | 4 |
| 43 | 54-28230-S | Shim | 4 |
| 44 | 335-M8-25 | Screw,Skt.Hd. M8-1.25 X 25 | 24 |
| 45* | 402-M8 | Washer, Lock M8 | 24 |
| 46* | 54-28248 | Chain Support Mount | 12 |
| 47* | 54-28302 | Machine Conveyor Frame | 1 |
| 48* | 54-28243 | Suspend Brkt | 2 |
| 49* | 68-26547 | Chain Tensioner Assy | 4 |
| 50* | 335-M6-20 | Screw,Skt.Hd. M6-1 X 20 | 16 |
| 51* | 402-M6 | Washer, Lock M6 | 16 |
| 52* | 410-M6 | Washer, Flat M6 | 16 |
| 53* | 54-28260 | Chain Tension Bracket | 4 |
| 54* | 54-28561 | Chain Tension Guide | 4 |

*Not Included in Assembly

Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.



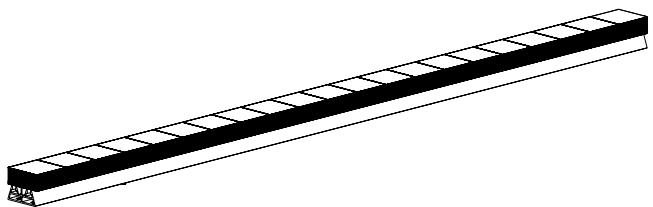
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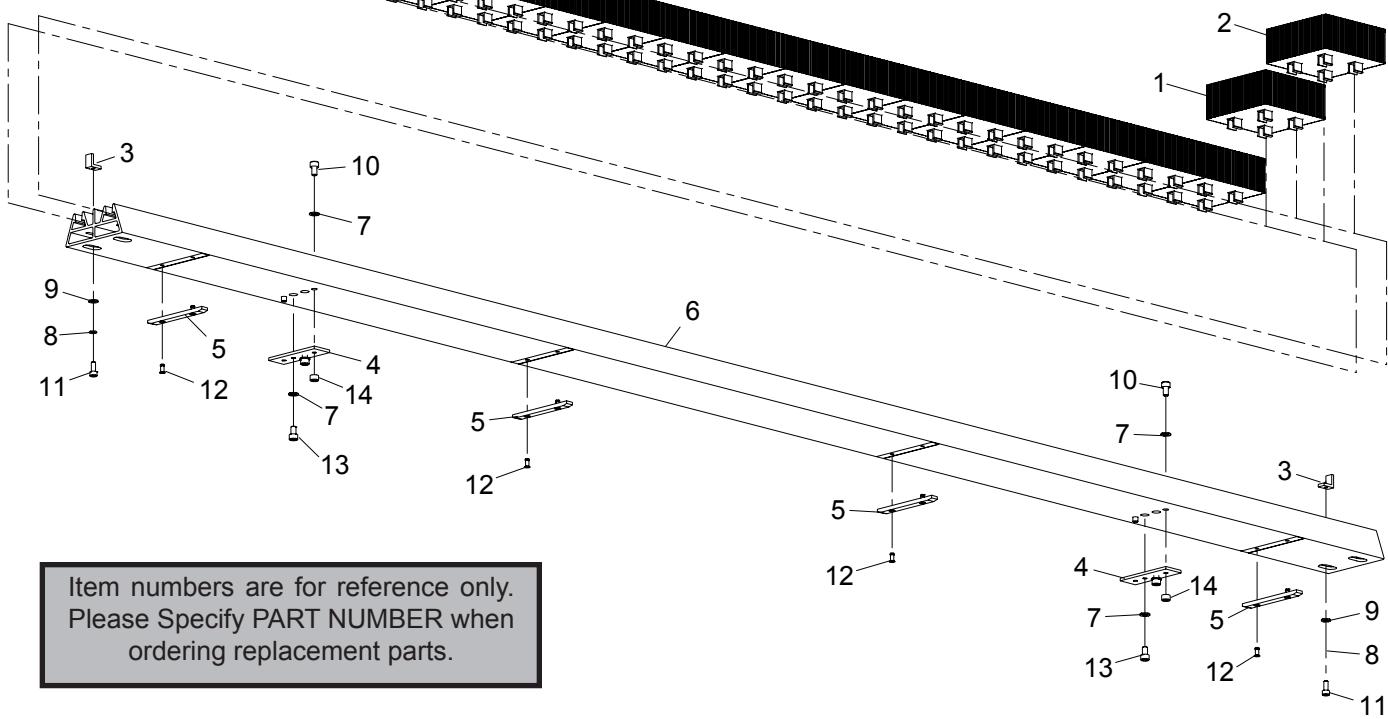
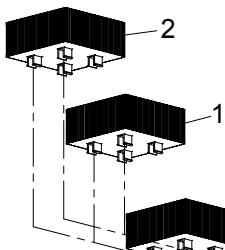
Bristle Slat Assembly

68-26545

| Item | Part No. | Description | Qty. |
|------|-------------|----------------------------|------|
| 1 | 67-26616-WH | White Bristle Block | 2 |
| 2 | 67-27016 | Bristle Block Eastman Blue | 19 |
| 3 | 54-28254 | Bristle Block Stop | 2 |
| 4 | 54-28253 | Chain Mtg Spacer | 2 |
| 5 | 54-28252 | Slat Wear Plate | 4 |
| 6 | 54-28240 | Raptor Slat Extrusion | 1 |
| 7 | 402-M6 | Washer, Lock M6 | 8 |
| 8 | 402-M5 | Washer, Lock M5 | 2 |
| 9 | 410-M5 | Washer, Flt M5 | 2 |
| 10 | 335-M6-12 | Screw,Skt.Hd. M6-1 X 12 | 4 |
| 11 | 335-M5-12 | Screw,Skt.Hd. M5-.8 X 12 | 2 |
| 12 | 546-5-24 | Rivet, \varnothing 5/32 | 8 |
| 13 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 4 |
| 14 | 65-26370 | Self-Lock Nut M6x1 | 4 |



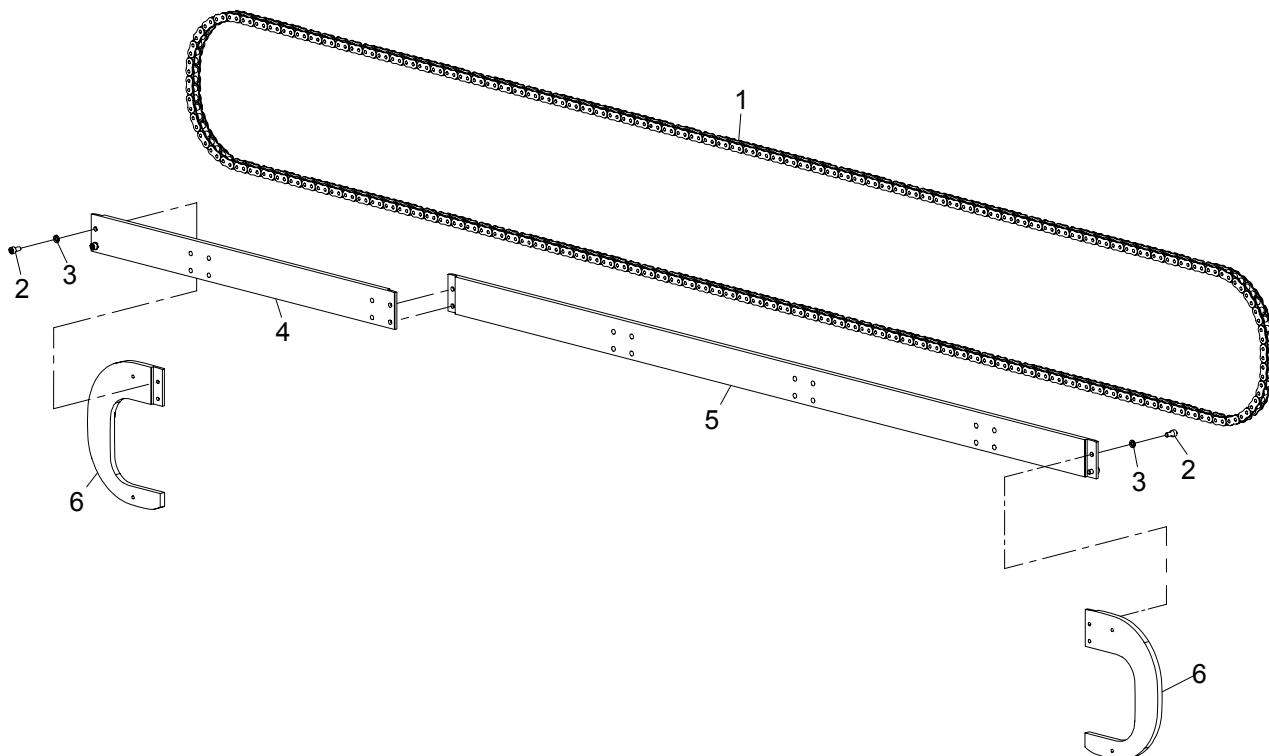
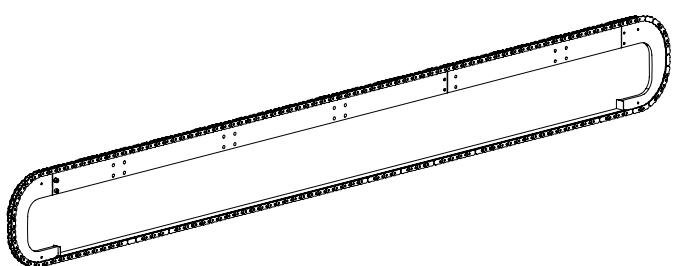
NOTE: Sold as complete Assembly
excluding bristle blocks.



Bristle Slat Support Assembly

68-26546

| Item | Part No. | Description | Qty. |
|------|-----------|----------------------------|------|
| 1 | 67-27005 | Roller Chain W/Connector | 1 |
| 2 | 335-M8-16 | Screw,Skt.Hd. M8-1.25 X 16 | 4 |
| 3 | 402-M8 | Washer, Lock M8 | 4 |
| 4 | 54-28257 | Support Chain Guide Short | 1 |
| 5 | 54-28258 | Support Chain Guide Long | 1 |
| 6 | 54-28256 | Support Chain End Guide | 2 |



Item numbers are for reference only.
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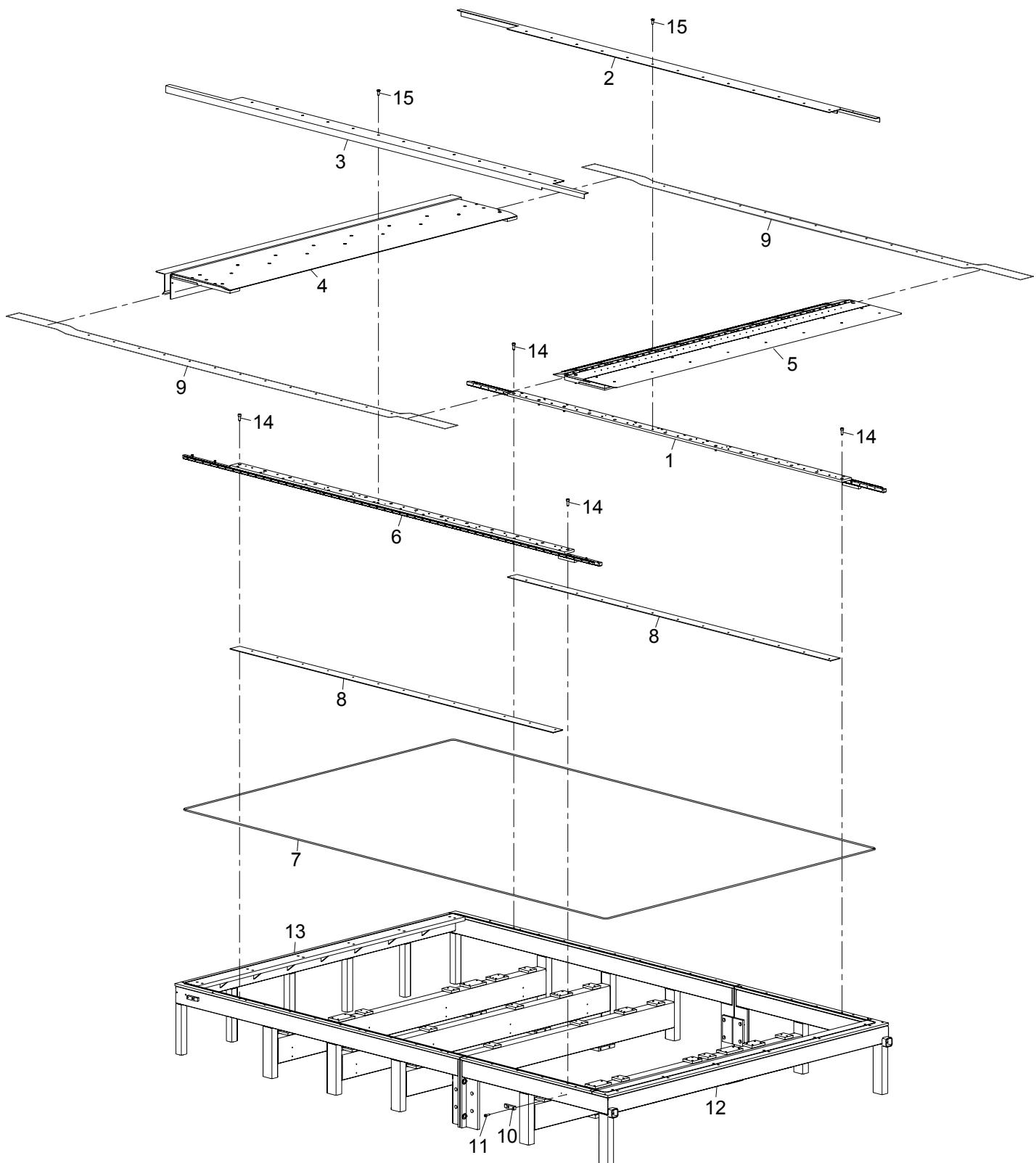
Bristle Conveyor Top Assembly

68-26550

| Item | Part No. | Description | Qty. |
|------|------------|--------------------------|------|
| 1 | 68-26551 | Rack/Rail Assy | 1 |
| 2 | 54-28277 | Top Cover -R- | 1 |
| 3 | 54-28278 | Top Cover -L- | 1 |
| 4 | 68-26552 | Take-On Top Assy | 1 |
| 5 | 68-26553 | Take-Off Top Assy | 1 |
| 6 | 68-26564 | Rack/Rail Rear Assy | 1 |
| 7 | 67-26995 | Soft Buna-N O-Ring Cord | 36ft |
| 8 | 54-28276 | Rubber Seal Strip | 2 |
| 9 | 54-28279 | Strip Seal | 2 |
| | 54-28279-1 | Strip Seal, Size Plus 4" | 2 |
| 10 | 54-28653 | Switch Cam X-Axis | 2 |
| 11 | 335-M4-20 | Screw,Skt.Hd. M4-.7 X 20 | 4 |
| 12* | 54-28301 | Machine Base Frame | 1 |
| 13* | 54-28302 | Machine Conveyor Frame | 1 |
| 14* | 335-M6-14 | Screw,Skt.Hd. M6-1 X 14 | 38 |
| 15* | 321-M6-16 | Screw,Flt.Hd. M6-1 X 16 | 26 |

*Not Included in Assembly

Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.



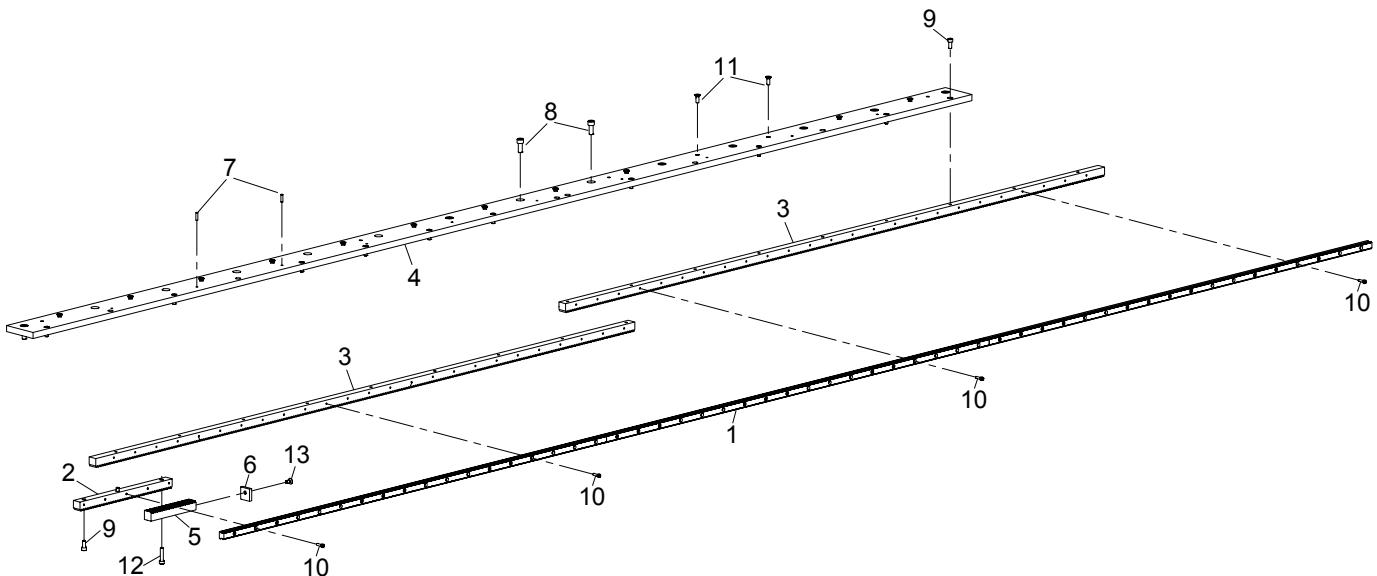
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Rack and Rail Assembly

68-26551

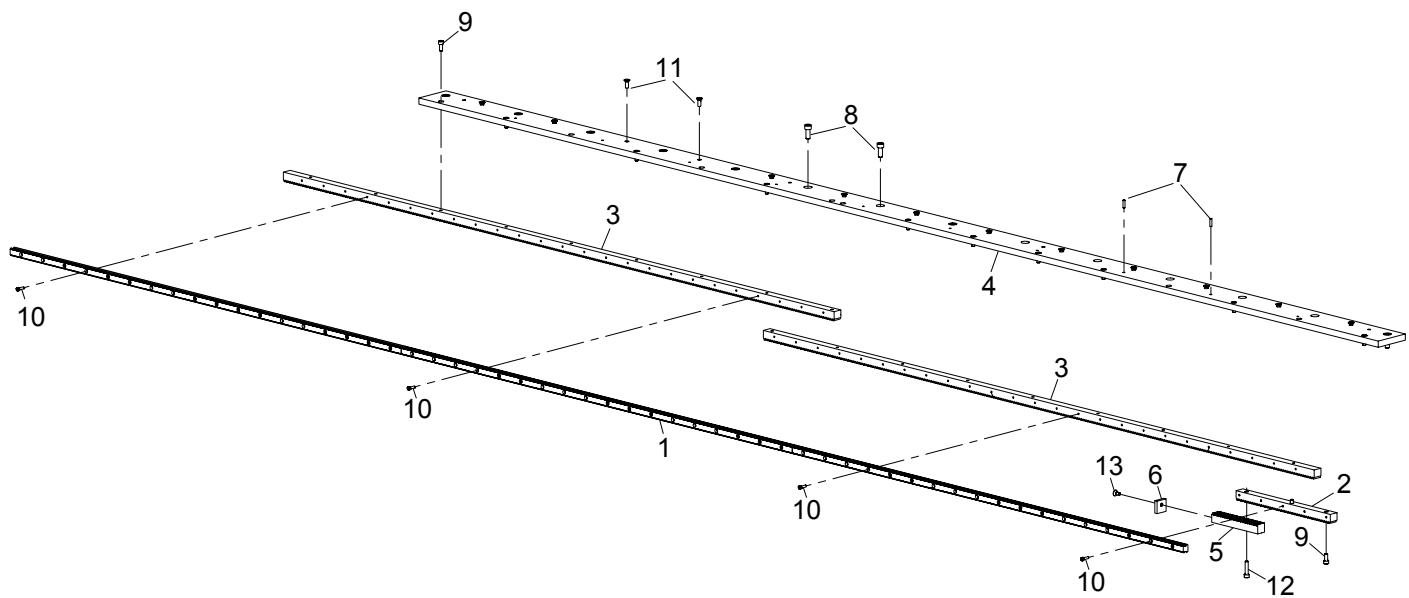
| Item | Part No. | Description | Qty. |
|------|-----------|-----------------------------|------|
| 1 | 54-28274 | Guide Rail | 3 |
| 2 | 54-28273 | Rack End Extension | 2 |
| 3 | 54-28272 | Gear Rack 16PD X 6ft | 2 |
| 4 | 54-28271 | Rack Mtg Bar | 1 |
| 5 | 54-28655 | Limit Stop Rack | 1 |
| 6 | 54-28656 | Stop Plate | 1 |
| 7 | 532-M4-16 | Pin, Dowel M4 X 16 | 10 |
| 8 | 335-M8-20 | Screw,Skt.Hd. M8-1.25 X 2 | 14 |
| 9 | 335-M6-14 | Screw,Skt.Hd. M6-1 X 14 | 19 |
| 10 | 335-M4-14 | Screw,Skt.Hd. M4-.7 X 14 | 60 |
| 11 | 321-M6-16 | Screw,Flt.Hd. M6-1 X 16 | 13 |
| 12 | 335-M6-35 | Screw,Skt.Hd. M6-1 X 35 | 1 |
| 13 | 332-M6-12 | Screw,Skt.Flt.Hd. M6-1 X 12 | 1 |



Rack and Rail Rear Assembly

68-26564

| Item | Part No. | Description | Qty. |
|------|-----------|-----------------------------|------|
| 1 | 54-28274 | Guide Rail | 3 |
| 2 | 54-28273 | Rack End Extension | 2 |
| 3 | 54-28272 | Gear Rack 16PD X 6 Ft | 2 |
| 4 | 54-28299 | Rack/Rail Rear Assy | 1 |
| 5 | 54-28655 | Limit Stop Rack | 1 |
| 6 | 54-28656 | Stop Plate | 1 |
| 7 | 532-M4-16 | Pin, Dowel M4 X 16 | 10 |
| 8 | 335-M8-20 | Screw,Skt.Hd. M8-1.25 X 2 | 14 |
| 9 | 335-M6-14 | Screw,Skt.Hd. M6-1 X 14 | 19 |
| 10 | 335-M4-14 | Screw,Skt.Hd. M4-.7 X 14 | 60 |
| 11 | 321-M6-16 | Screw,Flt.Hd. M6-1 X 16 | 13 |
| 12 | 335-M6-35 | Screw,Skt.Hd. M6-1 X 35 | 1 |
| 13 | 332-M6-12 | Screw,Skt.Flt.Hd. M6-1 X 12 | 1 |



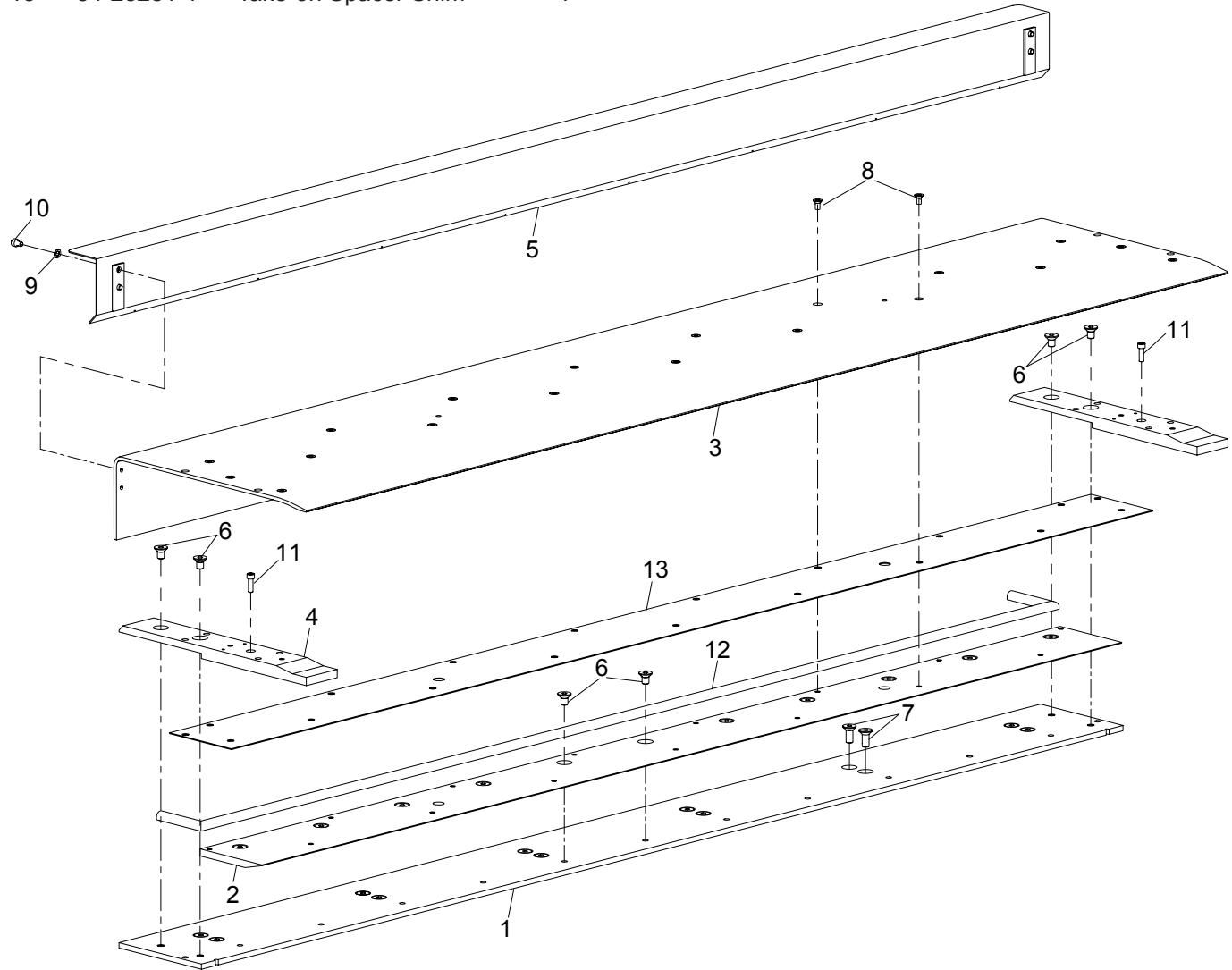
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Take-On Top Assembly

68-26552

| Item | Part No. | Description | Qty. |
|------|------------|-----------------------------|------|
| 1 | 54-28280 | Trake-On Mtg Plate | 1 |
| 2 | 54-28281 | Take-On Spacer Plate | 1 |
| 3 | 54-28283 | Take-On Plate | 1 |
| 4 | 54-28282 | Take-On Side Bar | 2 |
| 5 | 54-28284 | Take-On Ramp | 1 |
| 6 | 332-M12-20 | Screw,Skt.Flt.Hd. M12-1.75 | 15 |
| 7 | 332-M12-30 | Screw,Skt.Flt.Hd. M12-1.75 | 12 |
| 8 | 321-M8-16 | Screw,Flt.Hd. M8-1.25 X 16 | 19 |
| 9 | 402-M8 | Washer, Lock M8 | 4 |
| 10 | 335-M8-12 | Screw,Skt.Hd. M8-1.25 X 12 | 4 |
| 11 | 335-M8-25 | Screw,Skt.Hd. M8-1.25 X 25 | 2 |
| 12 | 67-27237 | Bulb Seal, Self Adh., 0.75" | 1 |
| 13 | 54-28281-1 | Take-on Spacer Shim | 1 |

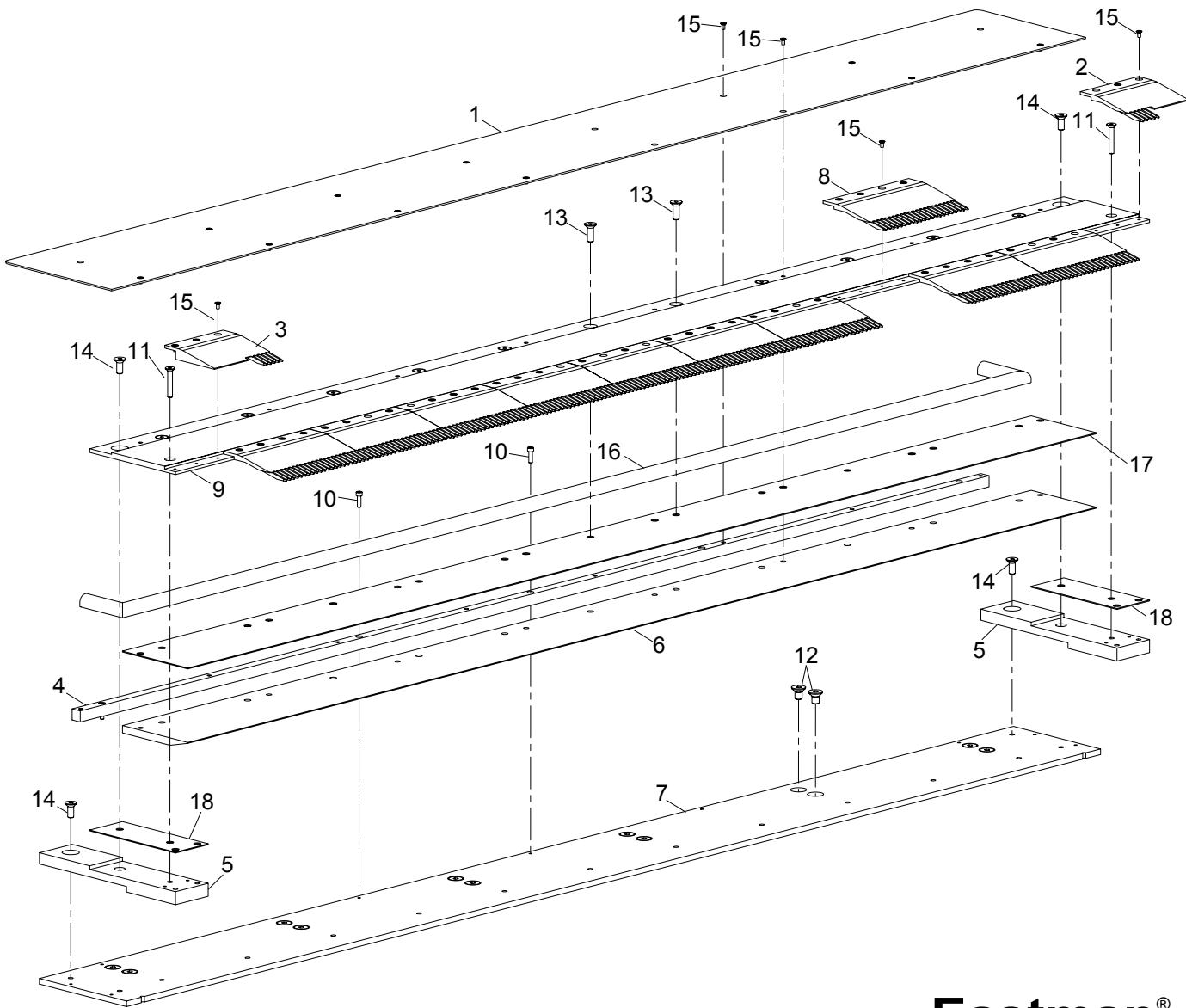


Take-Off Top Assembly

68-26553

| Item | Part No. | Description | Qty. |
|------|----------|-------------------------|------|
| 1 | 54-28293 | Take Off Cover | 1 |
| 2 | 54-28292 | Take-Off Finger Rr | 1 |
| 3 | 54-28291 | Take-Off Finger Fr | 1 |
| 4 | 54-28290 | Take Off Spacer Bar | 1 |
| 5 | 54-28289 | Take-Off Side Spacer | 2 |
| 6 | 54-28288 | Take-Off Spacer Plate | 1 |
| 7 | 54-28287 | Take-Off Mtg Base | 1 |
| 8 | 54-28286 | Take-Off Finger, Raptor | 10 |

| Item | Part No. | Description | Qty. |
|------|------------|-----------------------------|------|
| 9 | 54-28285 | Take-Off Mtg Plate | 1 |
| 10 | 335-M6-20 | Screw,Skt.Hd. M6-1 X 20 | 5 |
| 11 | 332-M8-50 | Screw,Skt.Flt.Hd. M8-1.25X5 | 2 |
| 12 | 332-M12-20 | Screw,Skt.Flt.Hd. M12-1.75 | 12 |
| 13 | 332-M10-30 | Screw,Skt.Flt.Hd. M10-1.5X3 | 11 |
| 14 | 332-M10-25 | Screw,Skt.Flt.Hd. M10-1.5X2 | 4 |
| 15 | 321-M5-10 | Screw,Flt.Hd. M5-0.8 X 10 | 62 |
| 16 | 67-27238 | Bulb Seal, Self Adh., 1.0" | 1 |
| 17 | 54-28288-1 | Take-Off Spacer Shim | 1 |
| 18 | 54-28288-2 | Take-Off Spacer Shim Side | 2 |



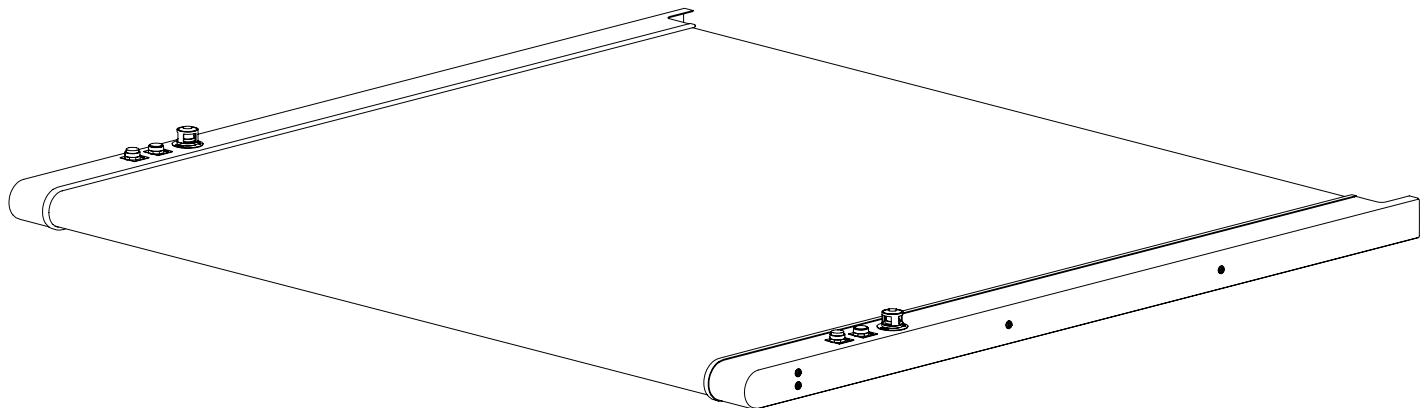
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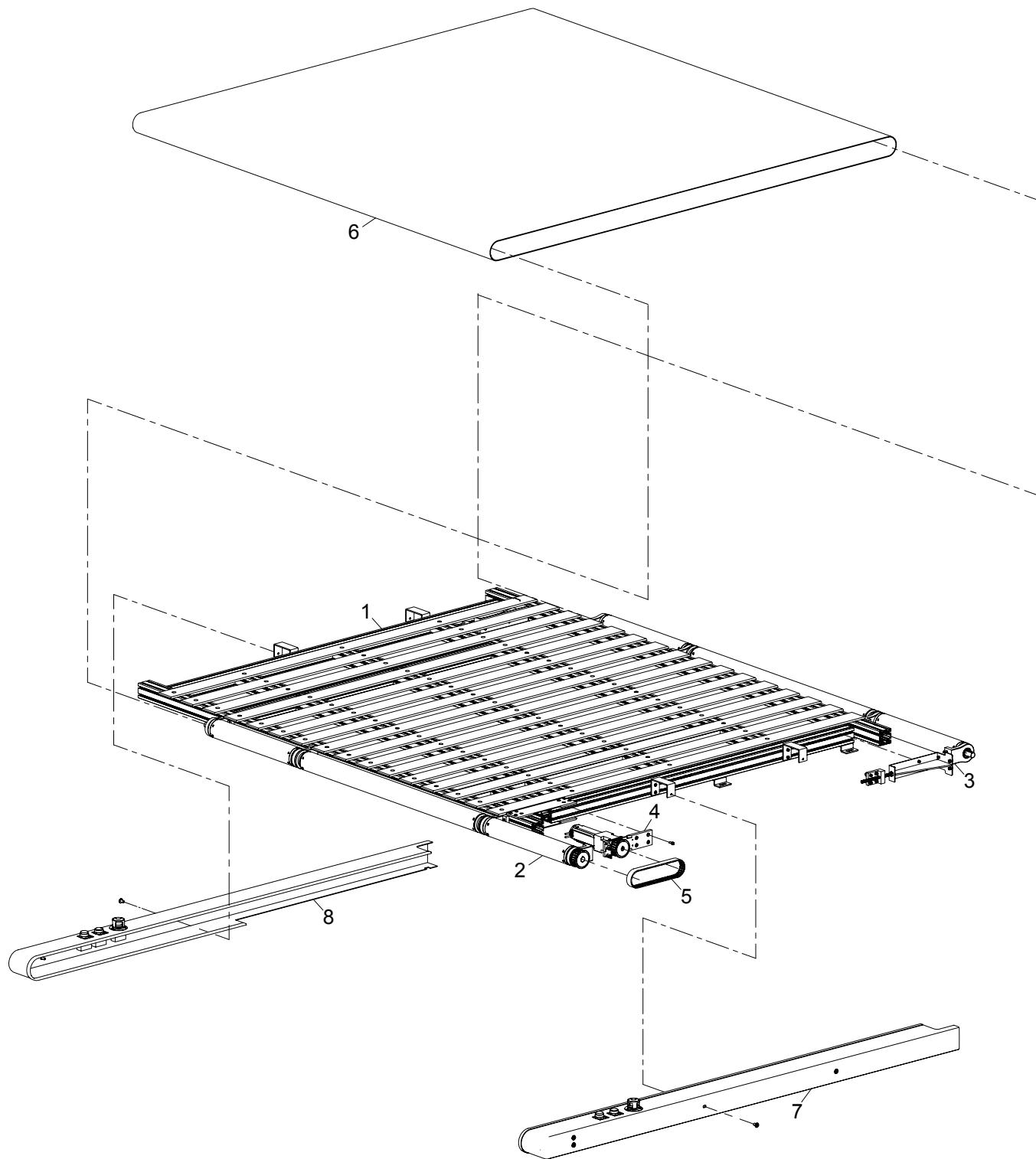
Raptor Take-Off Conveyor Assembly

68-26616

| Item | Part No. | Description | Qty. |
|------|----------|----------------------------|------|
| 1 | 68-26619 | Conveyor Bed Assy. | 1 |
| 2 | 68-26617 | Driven Roller Assy. | 1 |
| 3 | 68-26618 | Driving Roller Assy. | 1 |
| 4 | 68-26622 | Take Off Conv. Drive Assy. | 1 |
| 5 | 67-27103 | Timing Belt (63T,25,At10) | 1 |
| 6 | 67-27104 | Take Off Conveyor Belt | 1 |
| 7 | 68-26623 | Take Off Front Cover Assy. | 1 |
| 8 | 68-26624 | Take Off Rear Cover Assy. | 1 |



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ordering replacement parts.



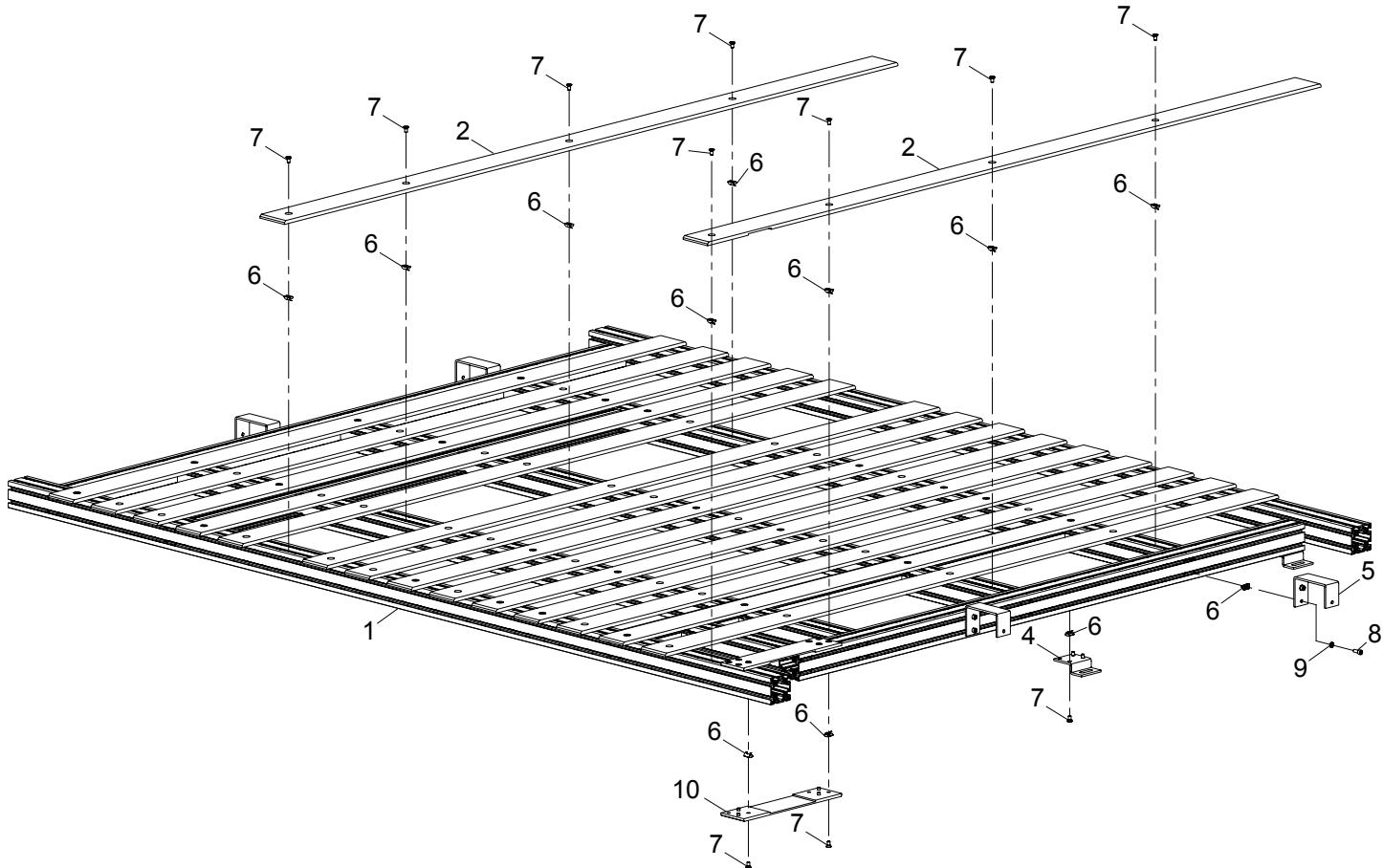
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Conveyor Bed Assembly

68-26619

| Item | Part No. | Description | Qty. |
|------|------------|------------------------------|------|
| 1 | 68-26620 | Raptor T-O Cnvr Frame Assy | 1 |
| 2 | 54-28519 | Belt Support Bar | 15 |
| 3 | 54-28519-1 | Belt Support Bar, Over Motor | 1 |
| 4 | 54-28520 | Mounting Bar, Raptor | 4 |
| 5 | 54-28521 | Side Panel Mtg Brkt | 4 |
| 6 | 67-27095 | Roll In T-Nut W/Spring Leaf | 104 |
| 7 | 332-M6-12 | Screw,Skt.Flt.Hd. M6-1 X 12 | 96 |
| 8 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 8 |
| 9 | 402-M6 | Washer, Lock M6 | 8 |
| 10 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 8 |
| 11 | 54-28667 | Stiffener Plate, Raptor | 2 |



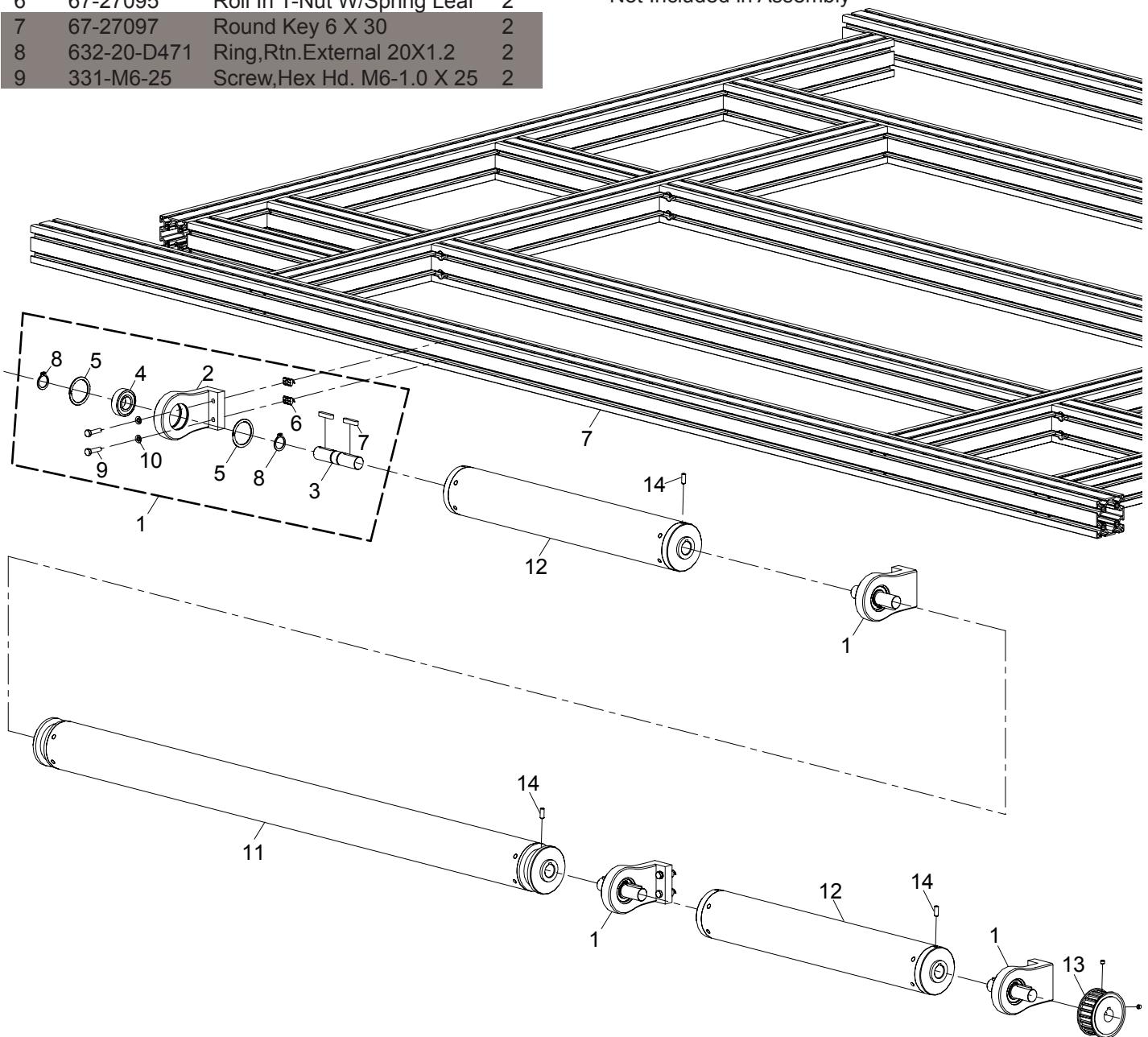
Driven Roller Assembly

68-26617

| Item | Part No. | Description | Qty. |
|------|-------------|-----------------------------|------|
| 1 | 68-26621 | Roller Bearing Block Assy | 4 |
| 2 | 54-28522 | Bearing Housing | 1 |
| 3 | 54-28523 | Roller Support Shaft | 1 |
| 4 | 67-27075 | Radial Bearing 20X42x12 | 1 |
| 5 | 67-27096 | Internal Ring 42mm | 2 |
| 6 | 67-27095 | Roll In T-Nut W/Spring Leaf | 2 |
| 7 | 67-27097 | Round Key 6 X 30 | 2 |
| 8 | 632-20-D471 | Ring,Rtn.External 20X1.2 | 2 |
| 9 | 331-M6-25 | Screw,Hex Hd. M6-1.0 X 25 | 2 |

| Item | Part No. | Description | Qty. |
|------|-------------|------------------------------|------|
| 10 | 402-M6 | Washer, Lock M6 | 2 |
| 11 | 54-28524 | Center Roller | 1 |
| 12 | 54-28525 | Outer Roller | 2 |
| 13 | 67-27098 | Timing Pulley (22T,25W,At10) | 1 |
| 14 | 342-M6-16-6 | Screw,Skt.Set M6-1 X 16 | 6 |
| 15* | 68-26620 | Raptor CNVR Frame Assy. | 1 |

*Not Included in Assembly



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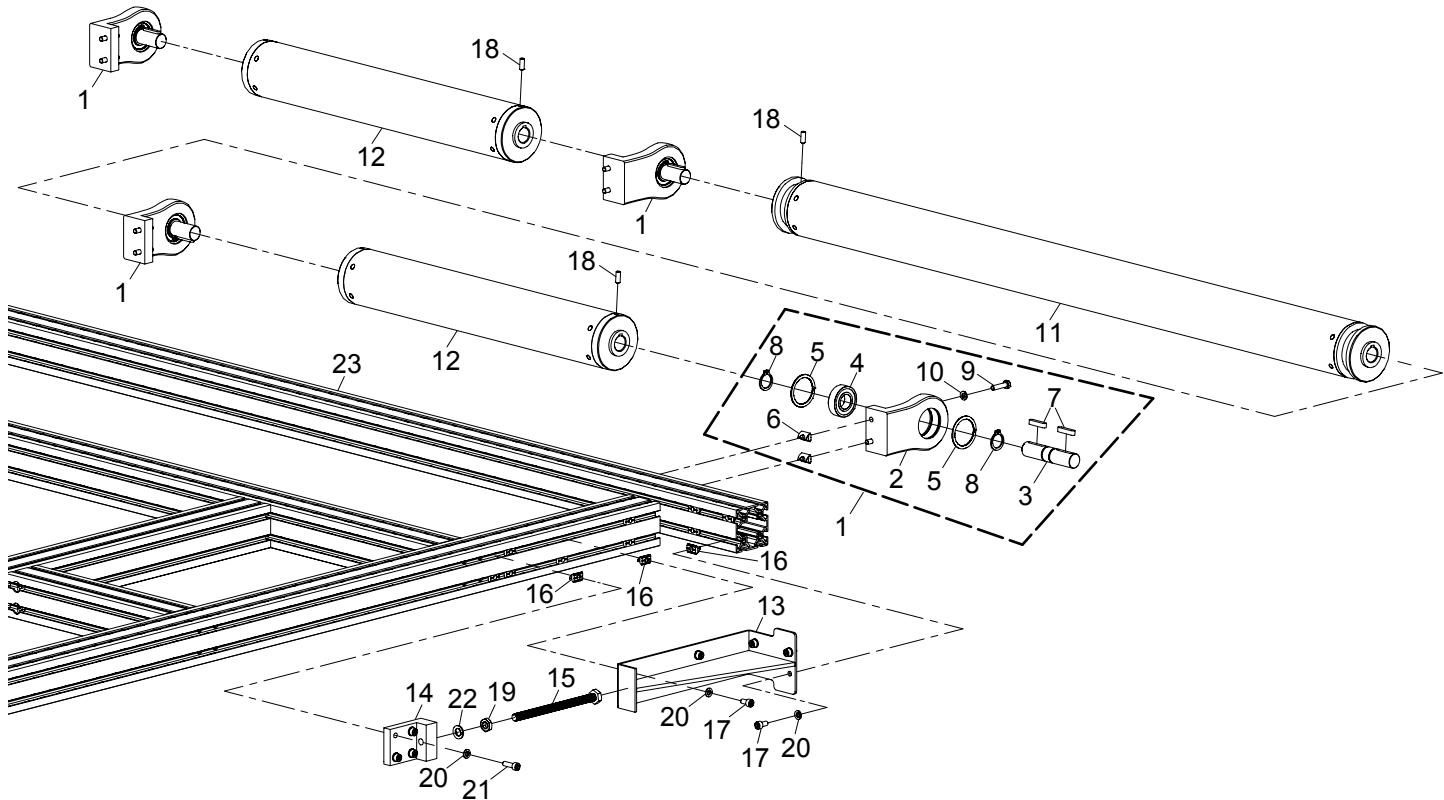
Driving Roller Assembly

68-26618

| Item | Part No. | Description | Qty. |
|------|-------------|-----------------------------|------|
| 1 | 68-26621 | Roller Bearing Block Assy | 4 |
| 2 | 54-28522 | Bearing Housing | 1 |
| 3 | 54-28523 | Roller Support Shaft | 1 |
| 4 | 67-27075 | Radial Bearing 20X42x12 | 1 |
| 5 | 67-27096 | Internal Ring 42mm | 2 |
| 6 | 67-27095 | Roll In T-Nut W/Spring Leaf | 2 |
| 7 | 67-27097 | Round Key 6 X 30 | 2 |
| 8 | 632-20-D471 | Ring,Rtn.External 20X1.2 | 2 |
| 9 | 331-M6-25 | Screw,Hex Hd. M6-1.0 X 25 | 2 |
| 10 | 402-M6 | Washer, Lock M6 | 2 |
| 11 | 54-28524 | Center Roller | 1 |
| 12 | 54-28525 | Outer Roller | 2 |
| 13 | 54-28526 | Tension Slide Brkt | 2 |
| 14 | 54-28527 | Tension Screw Brkt | 2 |
| 15 | 67-27099 | Fully Thr Hex Hd Bolt | 2 |

| Item | Part No. | Description | Qty. |
|------|-------------|-----------------------------|------|
| 16 | 67-27095 | Roll In T-Nut W/Spring Leaf | 24 |
| 17 | 335-M6-12 | Screw,Skt.Hd. M6-1 X 12 | 16 |
| 18 | 342-M6-16-6 | Screw,Skt.Set M6-1 X 16 | 6 |
| 19 | 206-M10 | M10 X 1.5 Jam Nut | 2 |
| 20 | 402-M6 | Washer, Lock M6 | 24 |
| 21 | 335-M6-20 | Screw,Skt.Hd. M6-1 X 20 | 8 |
| 22 | 402-M10 | Washer, Lock M10 | 2 |
| 23* | 68-26620 | Raptor CNVR Frame Assy. | 1 |

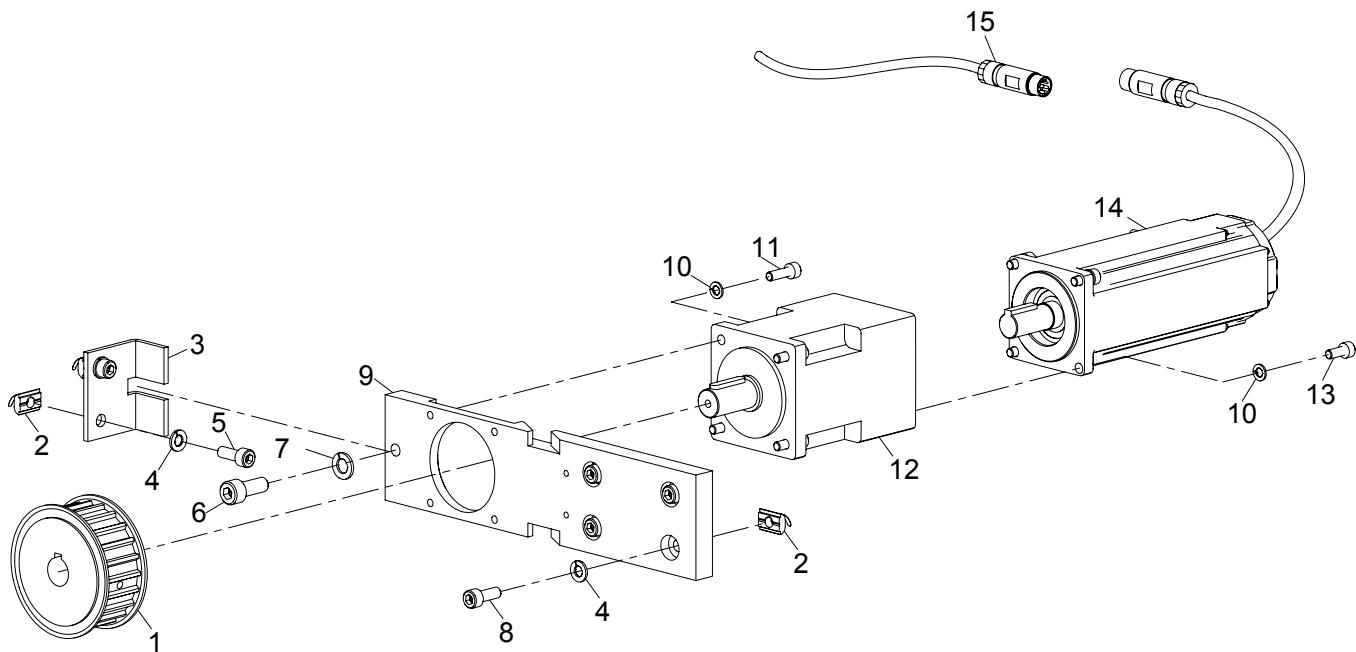
*Not Included in Assembly



Take Off Conveyor Drive Assembly

68-26622

| Item | Part No. | Description | Qty. |
|------|-----------|------------------------------|------|
| 1 | 67-27101 | Timing Pulley (22T,25W,At10) | 1 |
| 2 | 67-27095 | Roll In T-Nut W/Spring Leaf | 6 |
| 3 | 54-28666 | Locking Bracket, Raptor | 1 |
| 4 | 402-M6 | Washer, Lock M6 | 6 |
| 5 | 335-M6-12 | Screw,Skt.Hd. M6-1 X 12 | 2 |
| 6 | 335-M8-20 | Screw,Skt.Hd. M8-1.25 X 20 | 1 |
| 7 | 402-M8 | Washer, Lock M8 | 1 |
| 8 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 4 |
| 9 | 54-28530 | Gearbox Mtg Brkt | 1 |
| 10 | 402-M5 | Washer, Lock M5 | 8 |
| 11 | 335-M5-16 | Screw,Skt.Hd. M5-.8 X 16 | 4 |
| 12 | 67-27102 | Planetary Gearbox | 1 |
| 13 | 335-M5-12 | Screw,Skt.Hd. M5-.8 X 12 | 4 |
| 14 | 31-27168 | Servomotor,58mm,11 Lb-In | 1 |
| 15 | 31-27188 | Raptor Takeoff Motor Cable | 1 |



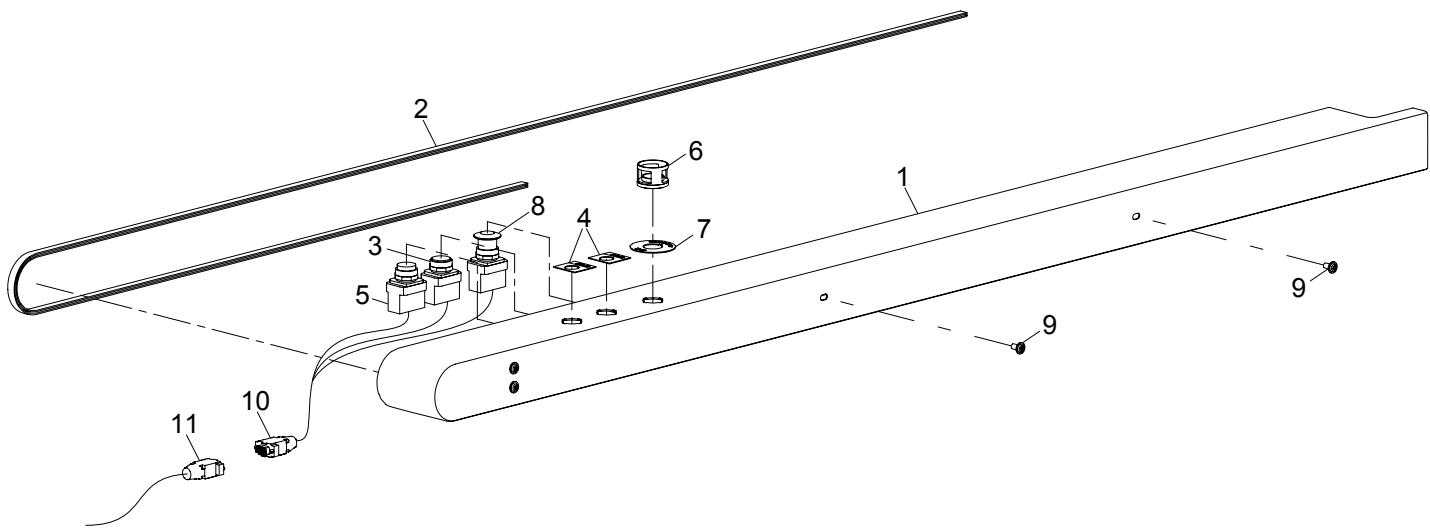
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Take Off Conveyor Front Cover Assembly

68-26623

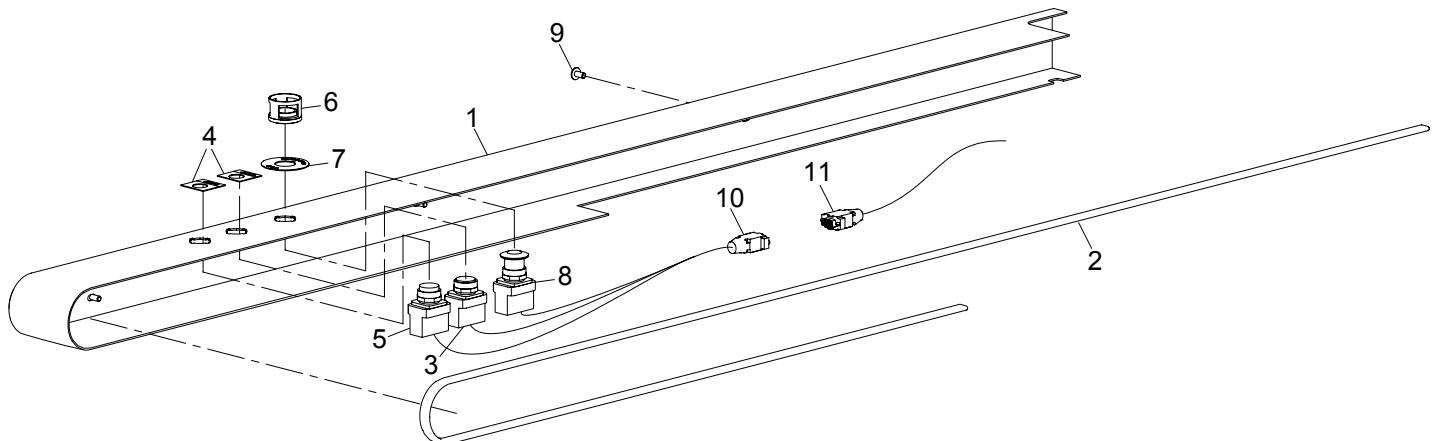
| Item | Part No. | Description | Qty. |
|------|-------------|----------------------------|------|
| 1 | 54-28528 | Front Cover Take Off Conv. | 1 |
| 2 | 67-27100 | Uhmw Edge | 11 |
| 3 | 31-26012-4 | Switch Yellow | 1 |
| 4 | 79-00011 | Nameplate, "Jog", Metal | 2 |
| 5 | 31-26012-2 | Switch Black | 1 |
| 6 | 31-26357 | E-Stop Guard, Ring | 1 |
| 7 | 91-26011-1 | Decal, Emergency Stop | 1 |
| 8 | 31-26489 | E-Stop Red Mushroom | 1 |
| 9 | 65-26053 | Flanged Bhcs (M8x1.25x16) | 4 |
| 10 | 31-27190 | Raptor Take-Off Conveyor | 2 |
| 11 | 31-26371-25 | Db9 M/F Interface Cable | 1 |



Take Off Conveyor Rear Cover Assembly

68-26624

| Item | Part No. | Description | Qty. |
|-------------|-----------------|----------------------------|-------------|
| 1 | 54-28528 | Front Cover Take Off Conv. | 1 |
| 2 | 67-27100 | Uhmw Edge | 11 |
| 3 | 31-26012-4 | Switch Yellow | 1 |
| 4 | 79-00011 | Nameplate,"Jog", Metal | 2 |
| 5 | 31-26012-2 | Switch Black | 1 |
| 6 | 31-26357 | E-Stop Guard, Ring | 1 |
| 7 | 91-26011-1 | Decal, Emergency Stop | 1 |
| 8 | 31-26489 | E-Stop Red Mushroom | 1 |
| 9 | 65-26053 | Flanged Bhcs (M8x1.25x16) | 4 |
| 10 | 31-27191 | Terminal Block Jumpers | 1 |
| 11 | 31-27189 | Raptor Takeoff Motor Cable | 1 |

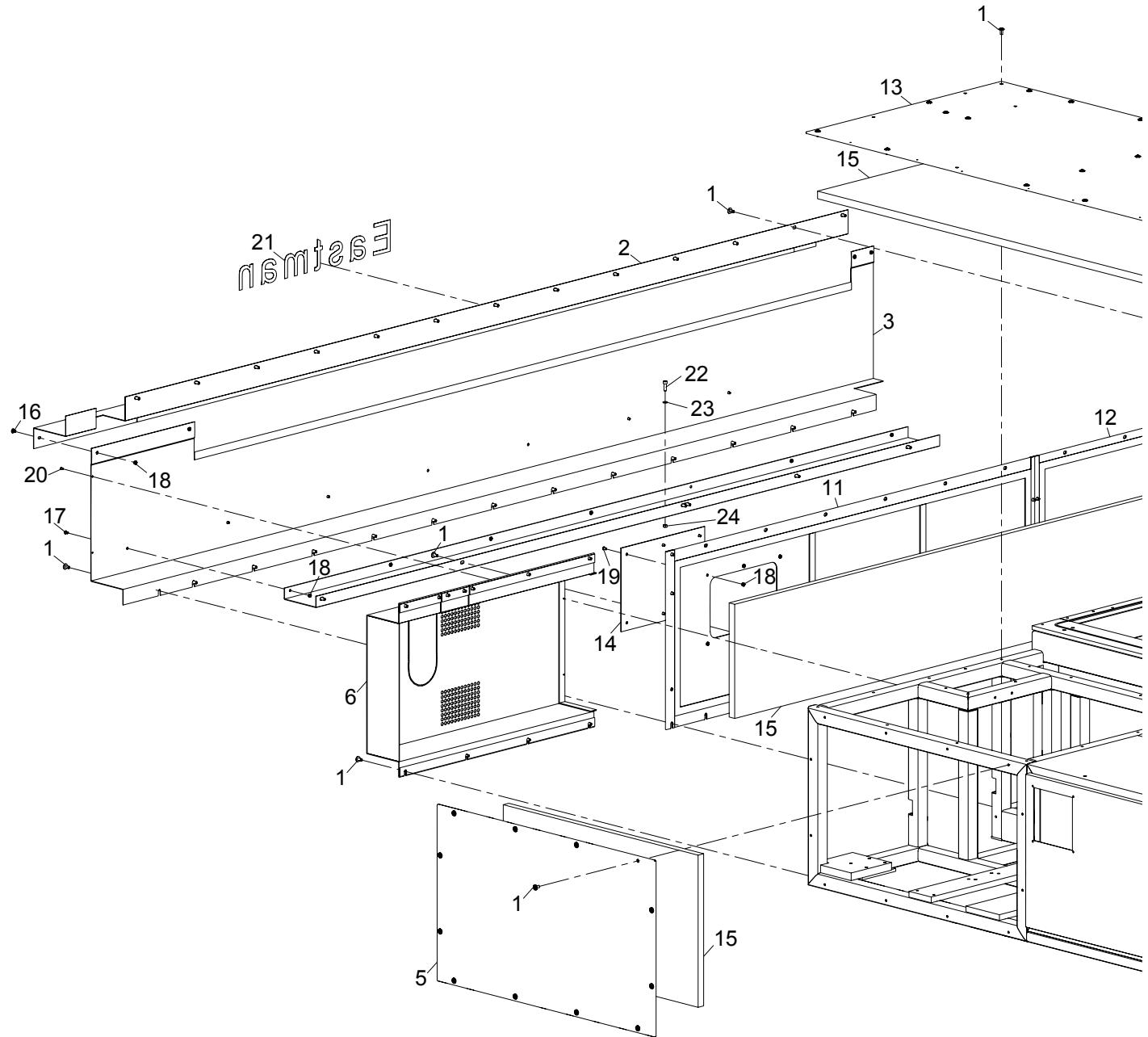


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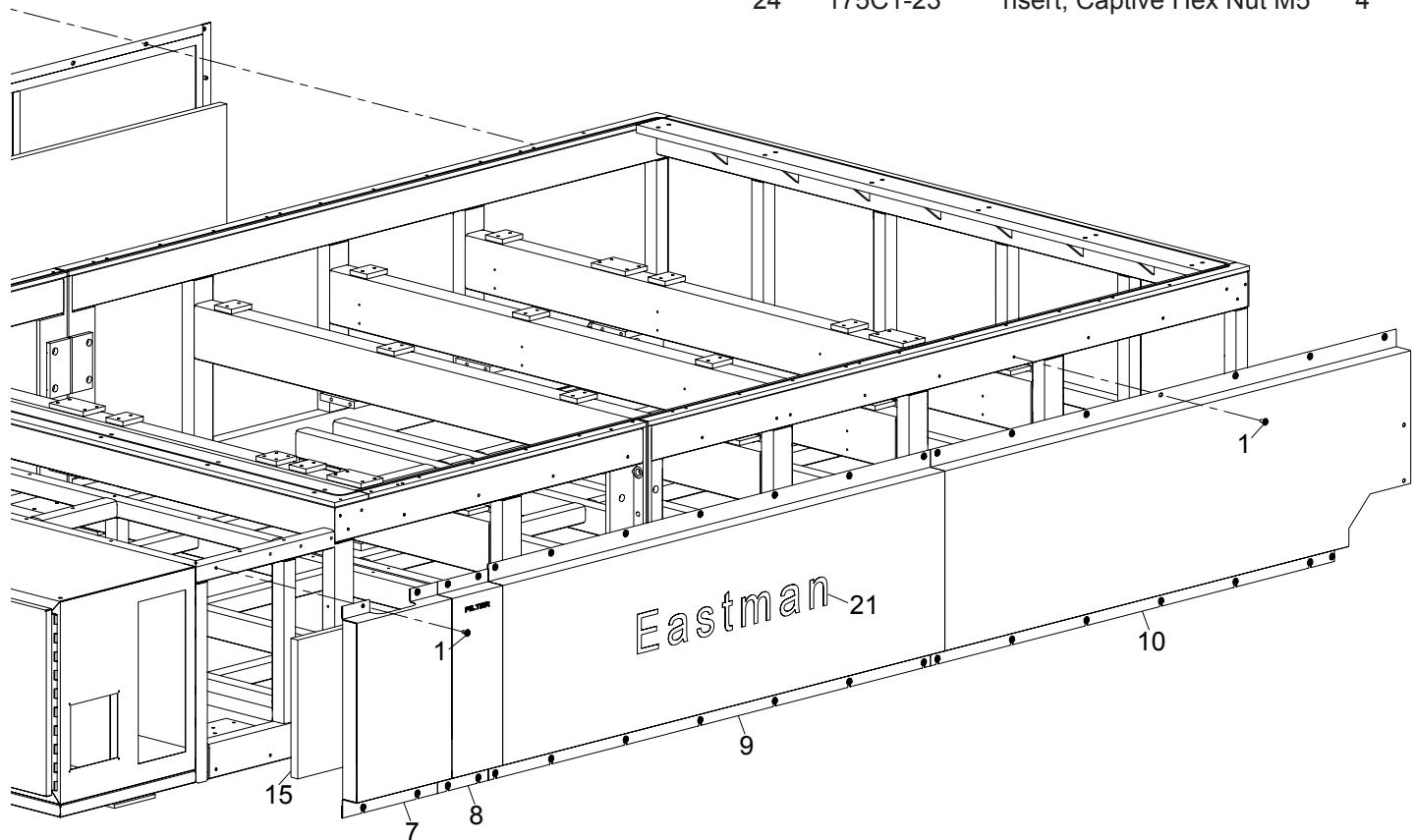
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Machine Frame Side Covers Assembly

68-26554



| Item | Part No. | Description | Qty. |
|------|-----------|----------------------------|------|
| 1 | 65-26053 | Flanged Bhcs (M8x1.25x16) | 129 |
| 2 | 54-28229 | E-Chain Cover Upper | 1 |
| 3 | 54-28228 | E-Chain Cover Lower | 1 |
| 4 | 54-28227 | E-Chain Tray | 1 |
| 5 | 54-28226 | Blower Side Cover | 1 |
| 6 | 54-28225 | Inverter Control Cover | 1 |
| 7 | 54-28224 | Side C Cover Front | 1 |
| 8 | 54-28223 | Filter Cover | 1 |
| 9 | 54-28222 | Side B Cover Front | 1 |
| 10 | 54-28221 | Side A Cover Front | 1 |
| 11 | 54-28220 | Side B Cover Rear | 1 |
| 12 | 54-28219 | Side A Cover Rear | 1 |
| 13 | 54-28214 | Blower Top Cover | 1 |
| 14 | 54-28683 | Access Cover | 1 |
| 15 | 54-28330 | Acoustic Foam | 4 |
| 16 | 67-27093 | Flanged Bshcs M6X1.0X10 | 4 |
| 17 | 333-M6-8 | Screw,Skt.Btn.Hd. M6-1 X 8 | 11 |
| 18 | 175C1-26 | Insert, Captive Hex Nut M6 | 17 |
| 19 | 333-M6-10 | Screw,Skt.Btn.Hd. M6-1X10 | 6 |
| 20 | 333-M4-8 | Screw,Skt.Btn.Hd. M4-0.7X8 | 2 |
| 21 | 91-26004 | Decal, Large Worldwide | 2 |
| 22 | 335-M5-20 | Screw,Skt.Hd. M5-.8X10 | 6 |
| 23 | 402-M5 | Washer, Lock M5 | 4 |
| 24 | 175C1-23 | nsert, Captive Hex Nut M5 | 4 |

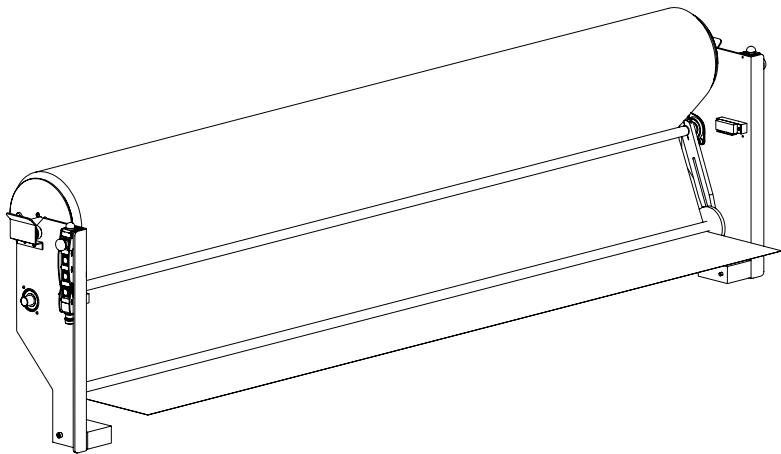


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Raptor Plastic Overlay Assembly

68-26610

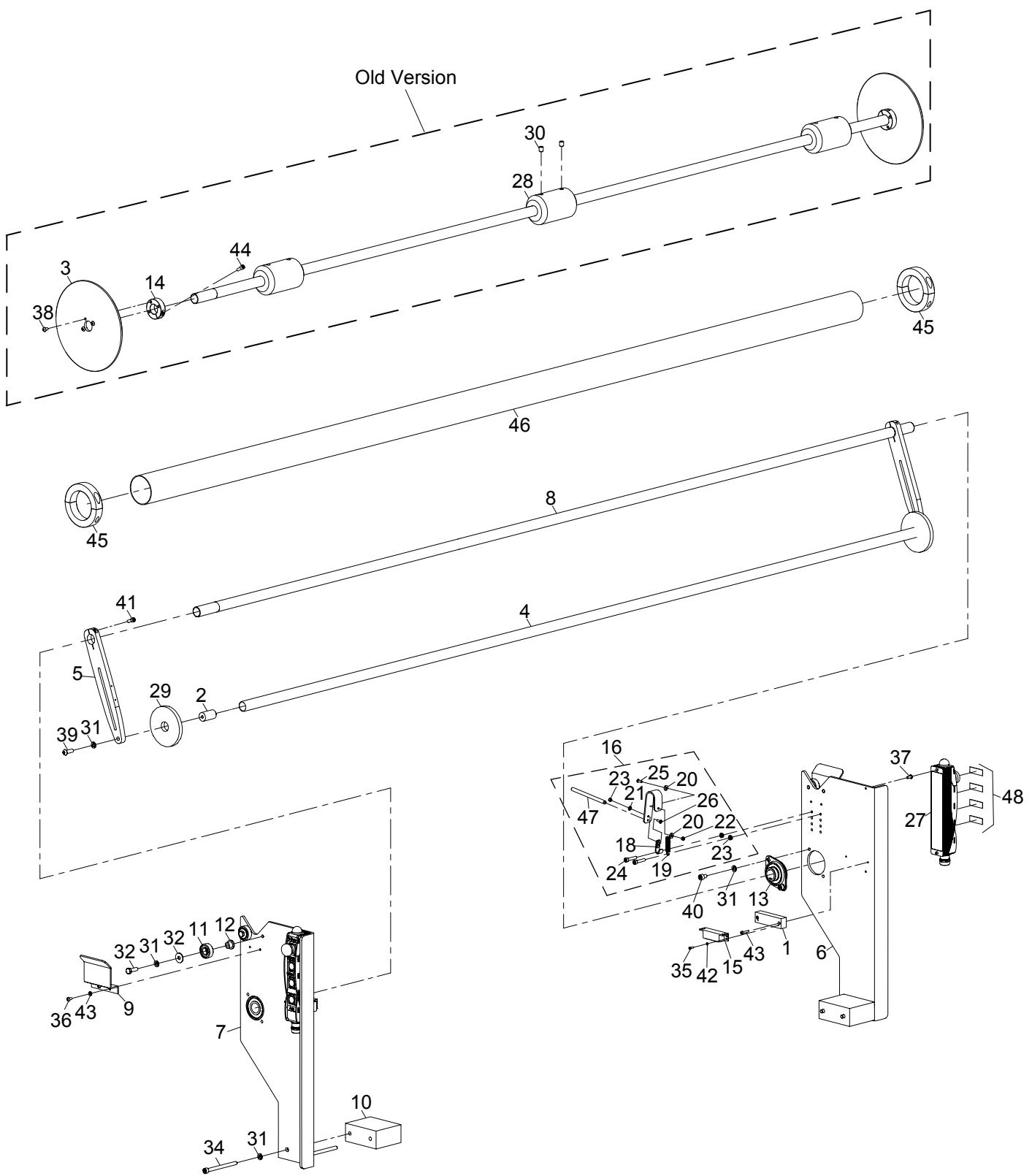


| Item | Part No. | Description | Qty. |
|------|------------|-------------------------------|------|
| 1 | 54-28502 | Spacer | 2 |
| 2 | 54-28503 | Guide Shaft | 2 |
| 3 | 54-28504 | Wheel | 2 |
| 4 | 54-28505 | Roller Tube | 1 |
| 5 | 54-28506 | Swing Arm | 2 |
| 6 | 54-28511 | Overlay Side Front | 1 |
| 7 | 54-28512 | Overlay Side Rear | 1 |
| 8 | 54-28513 | Roller Tube | 2 |
| 9 | 54-28514 | Stop Brkt | 2 |
| 10 | 54-28517 | Mtg Spacer | 2 |
| 11 | 67-26924 | Bearing | 4 |
| 12 | 67-27139 | Collar, Flanged | 4 |
| 13 | 67-27140 | Bearing, Pillow Block, Flange | 2 |
| 14 | 67-27141 | Shaft Collar | 2 |
| 15 | 67-27142-1 | Magnet Catch | 2 |
| 16 | 68-26609 | Brake Strap Assy | 1 |
| 17 | 54-28507 | Leather Strip | 1 |
| 18 | 54-28508 | Hook | 1 |
| 19 | 67-27138 | Extension Spring | 1 |
| 20 | 410-M4 | Washer, Flt M4 | 2 |
| 21 | 401-M4 | M4 Narrow Flat Washer | 2 |
| 22 | 211-M4 | Nut,Metric Elastic M-4 Thread | 3 |
| 23 | 206-M6 | Nut, Jam Hex M6 X 1 X 3 | 2 |
| 24 | 335-M6-30 | Screw,Skt.Hd. M6-1 X 30 | 2 |
| 25 | 333-M4-12 | Screw,Skt.Btn.Hd. M4-.7 X 12 | 1 |
| 26 | 332-M4-12 | Screw,Skt.Flt.Hd. M4-.7 X 12 | 2 |
| 27 | 31-27074 | Control Panel | 2 |
| 28 | PF-21985 | Core Reducer, 2.88- 1 ID | 3 |
| 29 | 54-28696 | Bumper, Rubber | 2 |

| Item | Part No. | Description | Qty. |
|------|-----------------|-------------------------------|------|
| 30 | 342-M10x15-12-2 | Screw,Skt.Set M10-1.5X12 | 2 |
| 31 | 402-M8 | Washer, Lock M8 | 16 |
| 32 | 401-M8-D9021 | Washer, 8 X 24 X 2 | 4 |
| 33 | 331-M8-25 | Screw,Hex Hd. M8-1.25X25 | 4 |
| 34 | 335-M8-100 | Screw,Skt.Hd. M8-1.25X100 | 4 |
| 35 | 335-M3-10 | Screw,Skt.Hd. M3-.5X10 | 4 |
| 36 | 333-M5-10 | Screw,Skt.Btn.Hd. M5-.8X10 | 4 |
| 37 | 333-M5-12 | Screw,Skt.Btn.Hd. M5-.8X12 | 4 |
| 38 | 333-M6-10 | Screw,Skt.Btn.Hd. M6-1X10 | 6 |
| 39 | 333-M8-25 | Screw,Skt.Btn.Hd. M8-1.25X22 | 2 |
| 40 | 335-M8-12 | Screw,Skt.Hd. M8-1.25X12 | 4 |
| 41 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 2 |
| 42 | 402-M3 | Washer, Lock M3 | 4 |
| 43 | 335-M4-20 | Screw,Skt.Hd. M4-.7 X 20 | 4 |
| 44 | 335-M4-10 | Screw,Skt.Hd. M4-.7 X 10 | 4 |
| 45 | 67-27012-1 | Clamp on Collar | 2 |
| 46 | 54-28823-1 | Overlay Plastic Support Tub. | 1 |
| 47 | 54-28824 | Handle | 1 |
| 48 | 91-26117 | Decal Sheet, Plastic Overlay | 2 |
| 49* | 254C1-4 | Cable, 6" Nylon | 8 |
| 50* | 11-976 | Mount, Large Cable Screw | 8 |
| 51* | 335-M3-5 | Screw,Skt.Hd. M3-.5 X 5 | 8 |
| 52* | 31-26382-25 | Db15 Mf 25Ft Cable | 1 |
| 53* | 42-26037-90 | Plastic Overlay Roll 90" Wide | 1 |

*Not Shown

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Raptor Overhead Beam Assembly

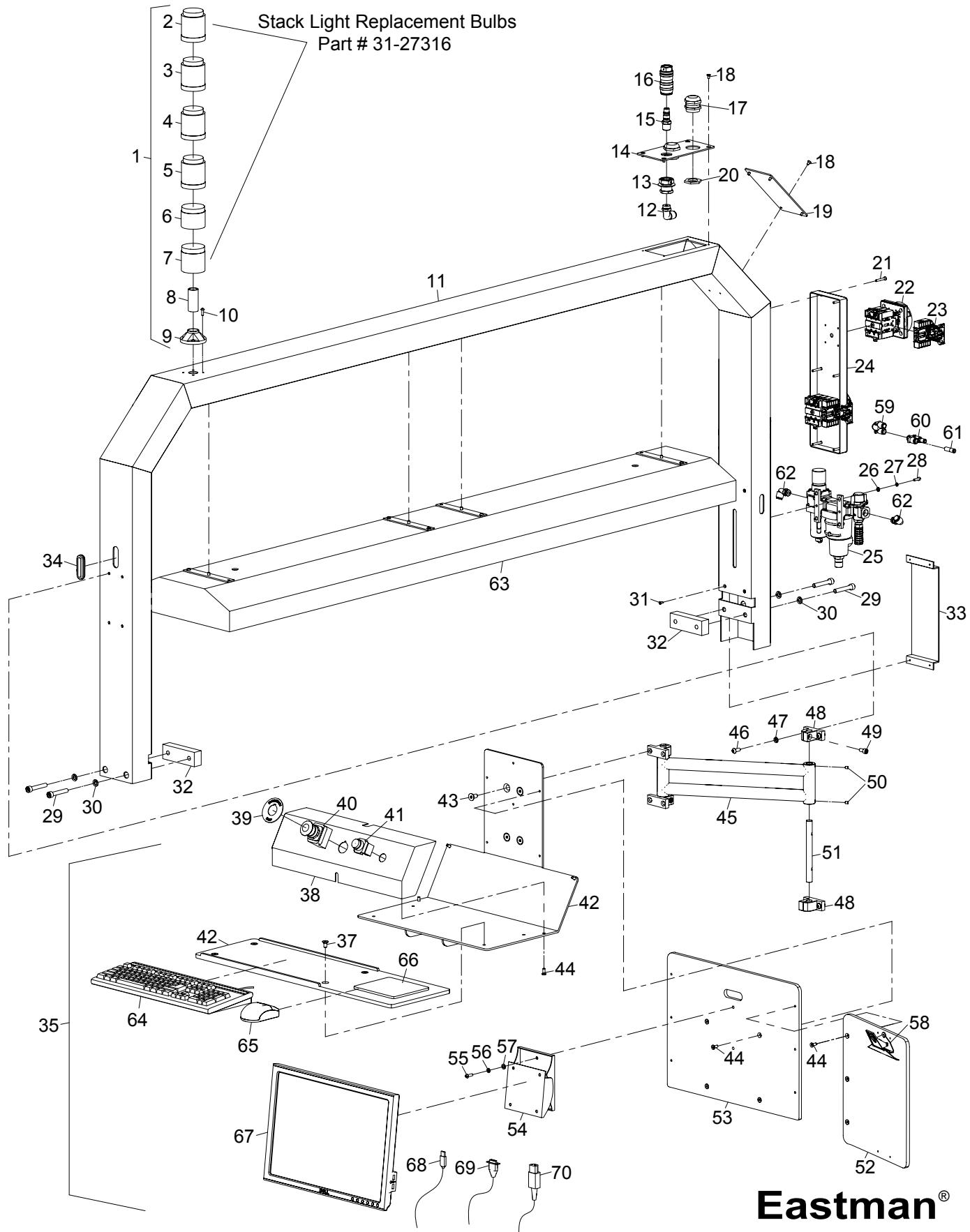
68-26615

| Item | Part No. | Description | Qty. |
|------|---------------|------------------------------|------|
| 1 | 96-26176 | Light Stack Kit | 1 |
| 2 | 31-26707 | Red Stack Light | 1 |
| 3 | 31-26866 | Green Stack Light | 1 |
| 4 | 31-26867 | Amber Stack Light | 1 |
| 5 | 31-26868 | Blue Stack Light | 1 |
| 6 | 31-26869 | Audio Alarm | 1 |
| 7 | 31-26627 | Stacklight Base | 1 |
| 8 | 31-26630 | Stacklight Extension Tube | 1 |
| 9 | 31-26629 | Stacklight Mounting Base | 1 |
| 10 | 333-M5-16 | Screw,Skt.Btn.Hd. M5-.8 X 16 | 4 |
| 11 | 54-28543 | Overhang Beam | 1 |
| 12 | 100-13-34 | Connector, Elbow 12Mm | 1 |
| 13 | 100-17-9 | Anchor Coupling 1/2-14 | 1 |
| 14 | 54-28321 | Power Drop Mount | 1 |
| 15 | 100-11-21 | Quick Disc. 1/2, Male | 1 |
| 16 | 100-11-22 | Quick Coupling Female 1/2 | 1 |
| 17 | 67-26749 | Strain Relief | 2 |
| 18 | 332-M5-10 | Screw,Skt.Flt.Hd. M5-.8 X 10 | 8 |
| 19 | 54-28320 | Terminal Cover | 1 |
| 20 | 67-26753 | Lock Nut | 2 |
| 21 | 332-M5-35 | Screw,Skt.Flt.Hd. M5-.8 X 35 | 6 |
| 22 | 31-26012-19 | Switch, Off/On | 2 |
| 23 | 31-26012-19-1 | Earth/Grounding Terminal | 2 |
| 24 | 54-28319 | Switch Mtg Plate | 1 |
| 25 | 100-18-51 | Lockout/Separator | 1 |
| 26 | 401-M5 | M5 Narrow Flat Washer | 4 |
| 27 | 402-M5 | Washer, Lock M5 | 4 |
| 28 | 335-M5-16 | Screw,Skt.Hd. M5-.8 X 16 | 4 |
| 29 | 335-M10-60 | Screw,Skt.Hd. M10-1.5 X 60 | 4 |
| 30 | 402-M10 | Washer, Lock M10 | 4 |
| 31 | 332-M4-10 | Screw,Skt.Flt.Hd. M4-.7 X 10 | 8 |
| 32 | 54-28542 | Spacer Bar | 2 |
| 33 | 54-28322 | Cover | 2 |
| 34 | 67-27137 | Grommet | 1 |
| 35 | 68-26560 | Control Station Assembly | 1 |
| 36 | 54-28268 | Mouse Support Plate | 1 |
| 37 | 332-M8-16 | Screw,Flt.Hd. M8-1.25X16 | 4 |
| 38 | 54-28267 | Control Panel Cover | 1 |
| 39 | 91-26011-1 | Decal, Emergency Stop | 1 |
| 40 | 31-26489 | E-Stop Red Mushroom | 1 |
| 41 | 31-26307 | Yellow Push Button | 1 |
| 42 | 54-28266 | Mtg Plate | 1 |
| 43 | 332-M10-20 | Screw,Skt.Flt.Hd. M10-1.5X2 | 4 |
| 44 | 332-M6-16 | Screw,Flt.Hd. M6-1 X 16 | 11 |

| Item | Part No. | Description | Qty. |
|------|-------------|------------------------------|------|
| 45 | 54-28264 | Arm | 1 |
| 46 | 333-M8-20 | Screw,Skt.Btn.Hd. M8-1.25X2 | 4 |
| 47 | 402-M8 | Washer, Lock M8 | 4 |
| 48 | 54-28265 | Hinge | 4 |
| 49 | 335-M8-16 | Screw,Skt.Hd. M8-1.25 X 16 | 4 |
| 50 | 342-M6-8 | Screw,Skt.Set M6-1 X 8, Flat | 4 |
| 51 | 54-28318 | Shaft | 2 |
| 52 | 54-28544 | Notepad Mount | 1 |
| 53 | 54-28269 | Monitor Mtg Panel | 1 |
| 54 | 37-27194 | Monitor Tilt Wall Mount | 1 |
| 55 | 333-M6-20 | Screw,Skt.Btn.Hd. M6-1 X 20 | 2 |
| 56 | 402-M6 | Washer, Lock M6 | 2 |
| 57 | 401-M6 | M6 Narrow Flat Washer | 2 |
| 58 | 67-27112 | Clipboard Clip | 1 |
| 59 | 100-15-6 | Y-Branch Reducer | 1 |
| 60 | 100-15-5 | Y-Branch Union | 1 |
| 61 | 100-11-33 | Connector,Straight | 2 |
| 62 | 100-13-45 | Connector, Elbow 12mm | 2 |
| 63* | 68-26604 | Overhead Light Fixture Assy | 1 |
| 64* | 11-00868-03 | Keyboard,W/Usb Ports | 1 |
| 65* | 11-00054-2 | Mouse,Usb, Black | 1 |
| 66* | 11-00046 | Mouse Pad | 1 |
| 67* | 10-26065-2 | 20"Widescreen Flat Monitor | 1 |
| 68* | 11-00038-3 | Cable, Usb 2.0 | 1 |
| 69* | 11-00032-15 | Monitor Ext. Cable VGA Style | 1 |
| | 11-00108 | Monitor Ext. Cable DVI Style | 1 |
| 70* | 31-26349-25 | Cable,Monitor AC-Power | 1 |

*Not Included in Assembly

Item numbers are for reference only.
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ordering replacement parts.

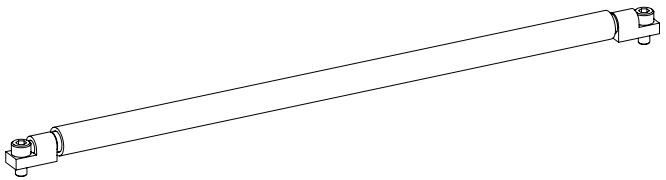


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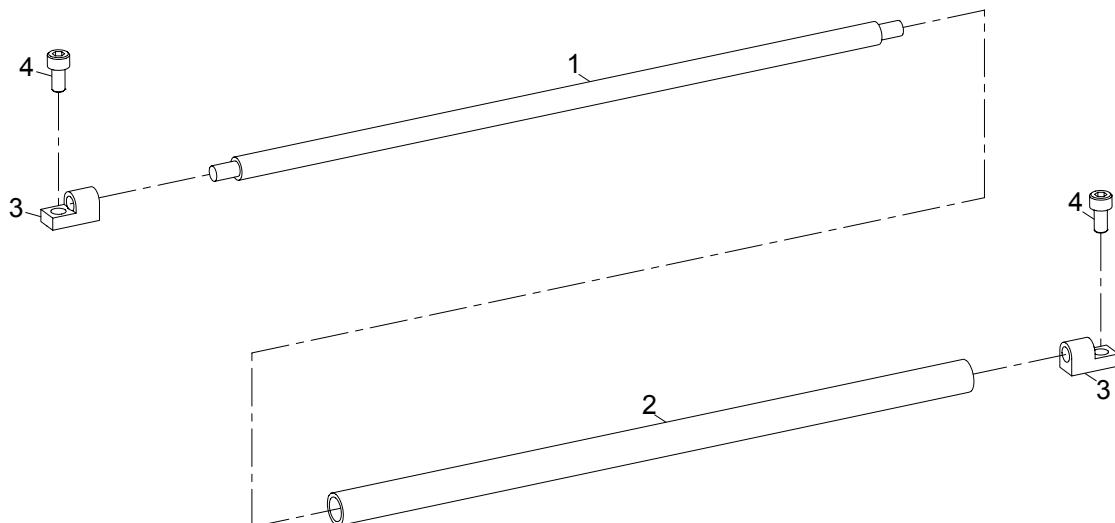
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Take Off Belt Support Assembly

68-26628



| Item | Part No. | Description | Qty. |
|------|-----------|------------------------------|------|
| 1 | 54-28711 | Roller Support Shaft | 1 |
| 2 | 54-28712 | Take Off Belt Support Roller | 1 |
| 3 | 54-28710 | Shaft Support | 2 |
| 4 | 335-M5-10 | Screw,Skt.Hd. M5-.8 X 10 | 2 |

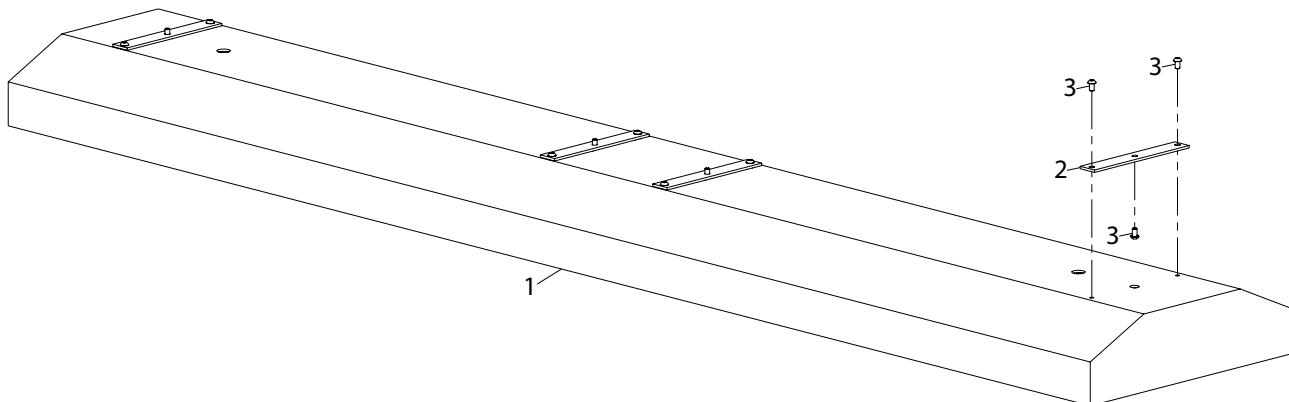
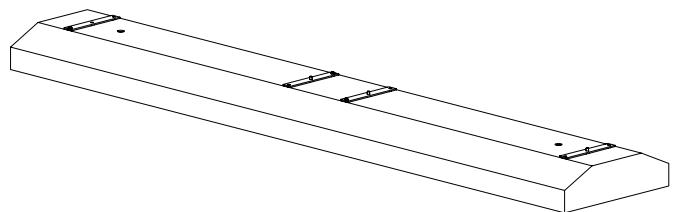


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Please Specify PART NUMBER when
ordering replacement parts.

Overhead Light Fixture Assembly

68-26604

| Item | Part No. | Description | Qty. |
|------|-----------|--------------------------------|------|
| 1 | 67-27111 | Fluorescent Light Fixture | 1 |
| 2 | 54-28731 | Light Fixture Mtg Bar | 4 |
| 3 | 333-M6-10 | Screw,Skt.Btn.Hd. M6-1 X 10 12 | |



Overhead Light Fixture Assembly
Replacement Bulbs
Part # 31-27317

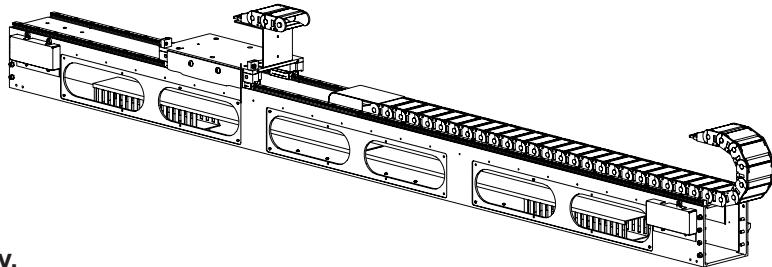
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Gantry Y-Car Beam Assembly

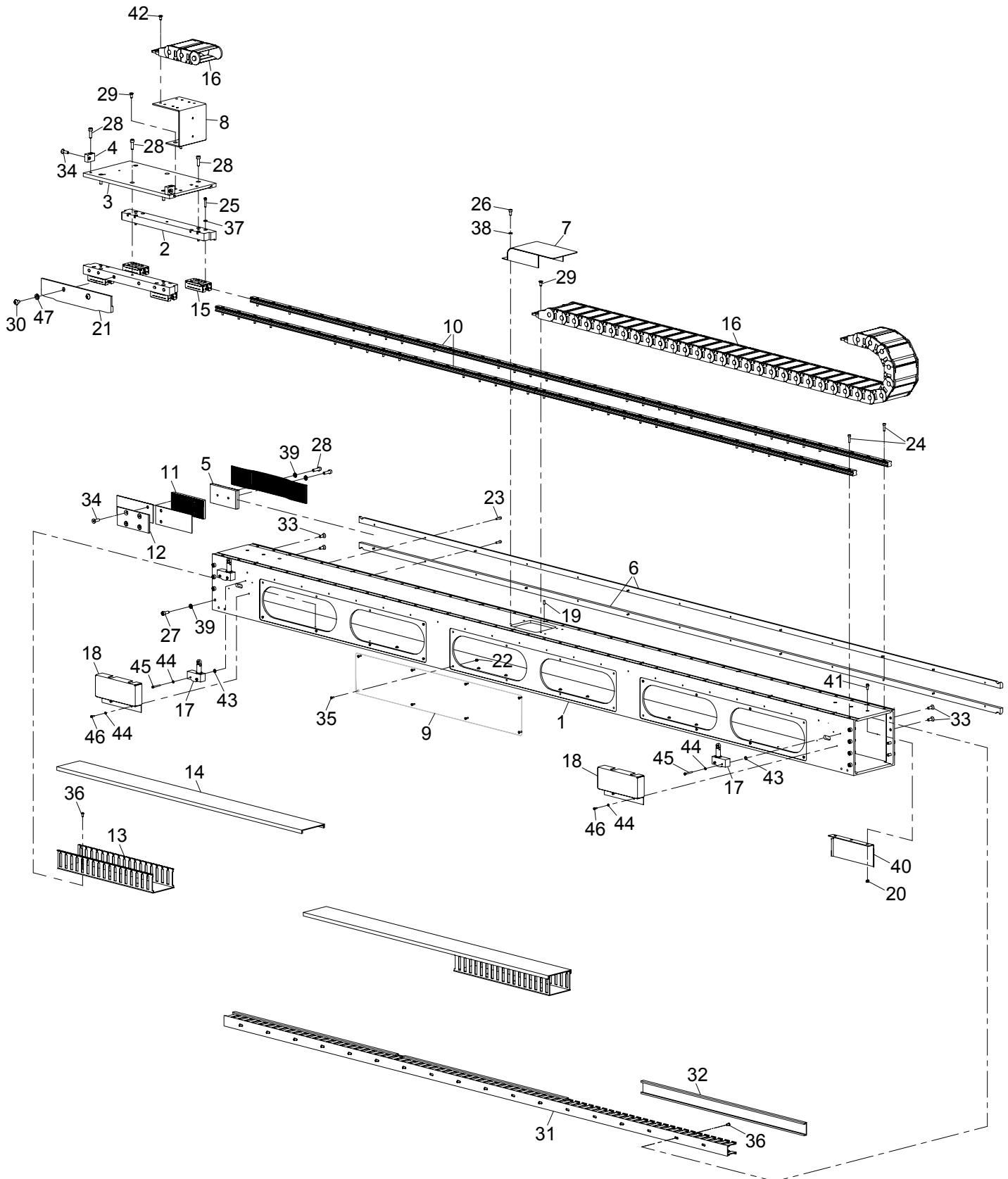
68-26592



| Item | Part No. | Description | Qty. |
|------|-------------|----------------------------|------|
| 1 | 54-28450 | Gantry Tube Multi-Ply | 1 |
| 2 | 54-28453 | Bearing Mtg Bar | 2 |
| 3 | 54-28454 | Y-Car Base Plate | 1 |
| 4 | 54-28695 | Mtg Block | 2 |
| 5 | 54-28455 | Timing Belt Clamp | 1 |
| 6 | 54-28459 | Timing Belt Guide | 2 |
| 7 | 54-28460 | E-Chain Gantry Cover | 1 |
| 8 | 54-28461 | E-Chain Toolhead Brkt | 1 |
| 9 | 54-28462 | Gantry Tube Access Cover | 3 |
| 10 | 54-28485 | Guide Rail | 2 |
| 11 | 54-28500 | Timing Belt Connecting | 1 |
| 12 | 54-28501 | Clamp Plate | 1 |
| 13 | 67-27152-36 | Wireway 3" X 2" X 36" Long | 3 |
| 14 | 67-26112-36 | 3" Duct Cover - 36" Long | 6 |
| 15 | 67-27015 | Linear Bearing Block | 4 |
| 16 | 67-27077 | E-Chain, Raptor Gantry | 1 |
| 17 | 31-00921 | Switch,Roller,In-Line | 3 |
| 18 | 54-28688 | Limit Switch Cover | 2 |
| 19 | 532-M4-10 | Pin, Dowel M4 X 10 | 20 |
| 20 | 175C1-24 | Captive Nut M4x0.7 | 86 |
| 21 | 54-28651 | Switch Cam Y-Axis | 1 |
| 22 | 175C1-27 | Captive Hex Nut M3x0.5 | 34 |
| 23 | 335-M3-12 | Screw,Skt.Hd. M3-.5 X 12 | 98 |
| 24 | 335-M4-16 | Screw,Skt.Hd. M4-.7 X 16 | 80 |
| 25 | 335-M4-20 | Screw,Skt.Hd. M4-.7 X 20 | 18 |
| 26 | 335-M5-10 | Screw,Skt.Hd. M5-.8 X 10 | 2 |
| 27 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 12 |
| 28 | 335-M6-20 | Screw,Skt.Hd. M6-1 X 20 | 10 |

| Item | Part No. | Description | Qty. |
|------|--------------|------------------------------|-------|
| 29 | 332-M5-12 | Screw,Skt.Flt.Hd. M5-.8 X 12 | 8 |
| 30 | 333-M8-10 | Screw,Skt.Btn. M8-1.25X10 | 2 |
| 31 | 70-26001 | Duct, Wiring,1"Wide X 1.5" | 6.2Ft |
| 32 | 67-02634 | Conduit Top 1" | 6.2Ft |
| 33 | 332-M6-16 | Screw,Skt.Flt.Hd. M6-1 X 16 | 4 |
| 34 | 332-M6-20 | Screw,Skt.Flt.Hd. M6-1 X 20 | 6 |
| 35 | 321-M3-10 | Screw,Flt.Hd. M3-0.5 X 10 | 24 |
| 36 | 333-M4-8 | Screw,Skt.Btn.Hd. M4-0.7X8 | 36 |
| 37 | 402-M4 | Washer, Lock M4 | 16 |
| 38 | 402-M5 | Washer, Lock M5 | 2 |
| 39 | 402-M6 | Washer, Lock M6 | 14 |
| 40 | 54-28687 | Belt Deflector | 2 |
| 41 | 335-M4-10 | Screw,Skt.Hd. M4-.7 X 10 | 6 |
| 42 | 332-M5-10 | Screw,Skt.Flt.Hd. M5-.8X10 | 4 |
| 43 | 401-M3-D9021 | Washer, 3 X 9 X 0.8 | 12 |
| 44 | 402-M3 | Washer, Lock M3 | 10 |
| 45 | 335-M3-25 | Screw,Skt.Hd. M3-.5 X 25 | 6 |
| 46 | 335-M3-8 | Screw,Skt.Hd. M3-.5 X 8 | 4 |
| 47 | 402-M8 | Washer, Lock M8 | 2 |

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Gantry Operator Side Panel Assembly

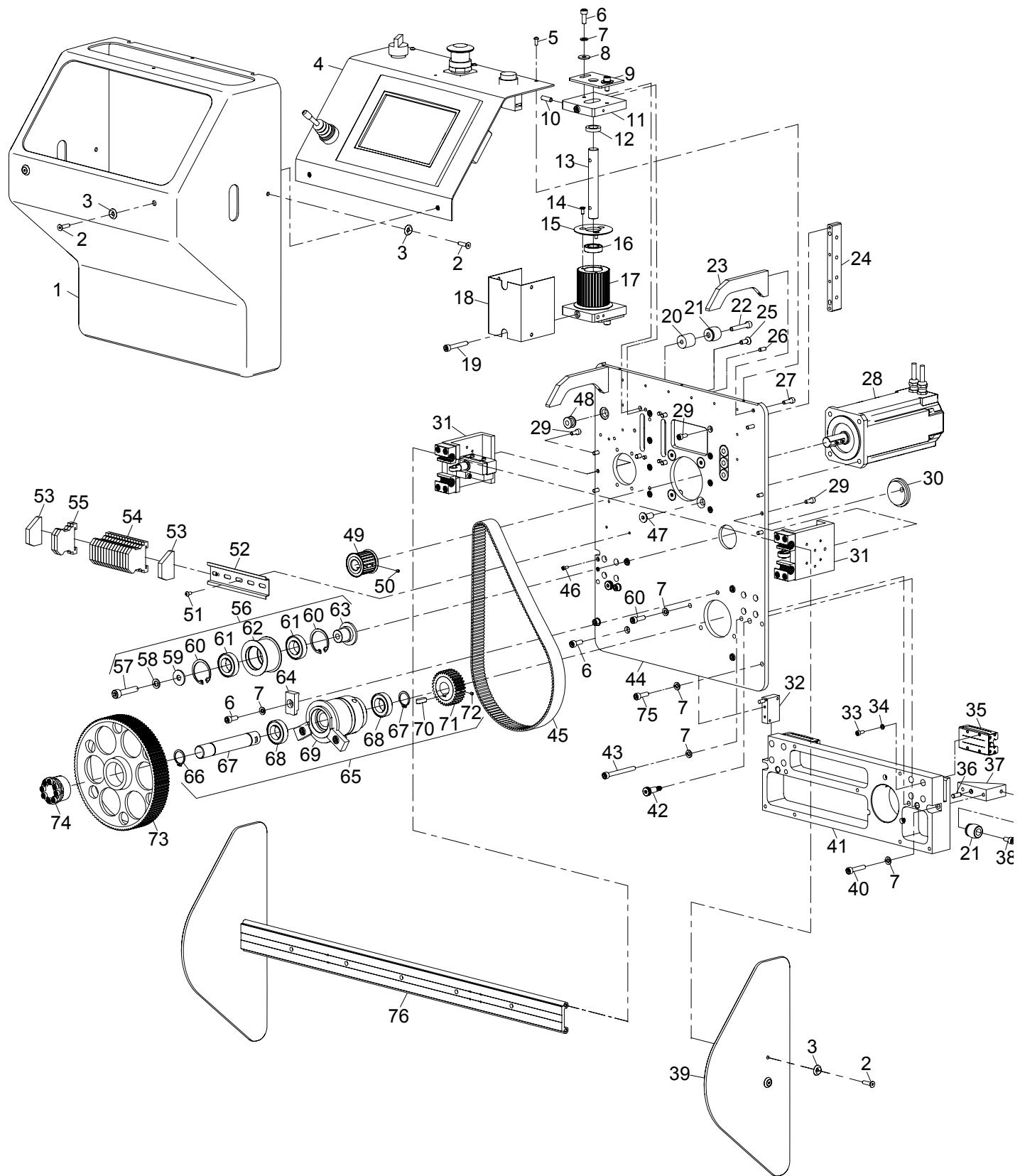
68-26593

| Item | Part No. | Description | Qty. |
|------|--------------|-----------------------------|------|
| 1 | 54-28494 | Operator Side Panel Cover | 1 |
| 2 | 332-M5-20 | Screw,Skt.Flt.Hd. M5-0.8X20 | 6 |
| 3 | 67-27085 | Countersunk Washer (M5) | 6 |
| 4 | 68-26598 | Gantry Control Panel Assy | 1 |
| 5 | 333-M4-10 | Screw,Skt.Btn.Hd. M4-.7X10 | 3 |
| 6 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 11 |
| 7 | 402-M6 | Washer, Lock M6 | 14 |
| 8 | 401-M6-D9021 | Washer, M6 - Din9021 | 4 |
| 9 | 54-28518 | Tensioner Lock Plate | 2 |
| 10 | 342-M6-20-2 | Screw,Skt.Set M6-1 X 20 | 2 |
| 11 | 54-28457 | Belt Tension Mtg Plate | 2 |
| 12 | 54-28458 | Spacer Washer (15X23x5) | 2 |
| 13 | 54-28491 | Belt Tension Shaft | 1 |
| 14 | 332-M4-10 | Screw,Skt.Flt.Hd. M4-.7X10 | 6 |
| 15 | 54-28497 | Pulley Flange | 2 |
| 16 | 67-27092 | Ball Bearing (15X28x7) | 2 |
| 17 | 54-28490 | Y-Car Driven Pulley | 1 |
| 18 | 54-28691 | Belt Cover - Op | 1 |
| 19 | 335-M6-40 | Screw,Skt.Hd. M6-1 X 40 | 2 |
| 20 | 67-27222 | Spacer | 1 |
| 21 | 67-26971 | Elastomer Bumper | 3 |
| 22 | 335-M6-35 | Screw,Skt.Hd. M6-1 X 35 | 1 |
| 23 | 54-28499 | Control Panel Support | 2 |
| 24 | 54-28489 | Main Tube Mtg. Insert | 2 |
| 25 | 332-M6-16 | Screw,Skt.Flt.Hd. M6-1 X 16 | 4 |
| 26 | 532-M5-12 | Pin, Dowel M5 X 12 | 6 |
| 27 | 335-M5-16 | Screw,Skt.Hd. M5-.8 X 16 | 4 |
| 28 | 31-27166 | Servomotor,84mm | 1 |
| 29 | 335-M5-12 | Screw,Skt.Hd. M5-.8 X 12 | 14 |
| 30 | 54-28474 | Belt Tensioner Lock | 1 |
| 31 | 68-26597 | Pause Paddle Assy | 1 |
| 32 | 67-27090 | Proximity Block Sensor | 1 |
| 33 | 335-M4-10 | Screw,Skt.Hd. M4-.7 X 10 | 8 |
| 34 | 402-M4 | Washer, Lock M4 | 8 |
| 35 | 67-27015 | Linear Bearing Block | 2 |
| 36 | 532-M6-14 | Dowel, M6 X 14 | 2 |
| 37 | 54-28477 | Bumper Stop Brkt | 2 |
| 38 | 335-M6-12 | Screw,Skt.Hd. M6-1 X 12 | 3 |
| 39 | 54-28496 | Paddle Operator Side | 2 |
| 40 | 335-M6-30 | Screw,Skt.Hd. M6-1 X 30 | 2 |
| 41 | 54-28492 | X-Car Mtg Block Operator | 1 |
| 42 | 67-27198 | Shoulder Screw Ø8.0x16.0 | 2 |
| 43 | 335-M6-60 | Screw,Skt.Hd. M6-1 X 60 | 2 |
| 44 | 54-28451 | Side Base Plate Operator | 1 |

| Item | Part No. | Description | Qty. |
|------|--------------|-----------------------------|------|
| 45 | 67-27079 | Timing Belt, 5Gt2,160t,25mm | 1 |
| 46 | 335-M3-8 | Screw,Skt.Hd. M3-.5 X 8 | 2 |
| 47 | 332-M8-20 | Screw,Skt.Flt.Hd. M8-1.25X2 | 4 |
| 48 | 9015-0003 | Grommet, Rubber | 4 |
| 49 | 54-28481 | Timing Pulley,5Gt2,28 T | 1 |
| 50 | 342-M4-4 | Screw,Skt.Set M4-.7 X 4 | 4 |
| 51 | 333-M4-8 | Screw,Skt.Btn.Hd. M4-.7X8 | 2 |
| 52 | 31-00739-5 | 5" Terminal Mount | 1 |
| 53 | 31-26414 | Terminal End Clamps | 2 |
| 54 | 31-26604 | Terminal Block | 14 |
| 55 | 31-26405 | Ground Terminal Block | 2 |
| 56 | 68-26596 | Belt Tension Wheel Assy | 1 |
| 57 | 335-M8-40 | Screw,Skt.Hd. M8-1.25 X 40 | 1 |
| 58 | 402-M8 | Washer, Lock M8 | 1 |
| 59 | 401-M8-D9021 | Washer, 8 X 24 X 2 | 1 |
| 60 | 631-37-D472 | Ring,Rtn-Internal 37 X 1.5 | 2 |
| 61 | 67-27080 | Deep Groove Ball Bearing | 2 |
| 62 | 54-28476 | Tensioner Flange Shaft | 1 |
| 63 | 54-28475 | Tensioner Flange Shaft | 1 |
| 64 | 54-28473 | Clamp | 3 |
| 65 | 68-26595 | X-Car Drive Assy | 1 |
| 66 | 632-20-D471 | Ring,Rtn.External 20X1.2 | 2 |
| 67 | 54-28470 | X-Car Drive Shaft | 1 |
| 68 | 67-27080 | Deep Groove Ball Bearing | 2 |
| 69 | 54-28468 | X-Car Bearing Housing | 1 |
| 70 | 67-27081 | Key, Round One Side | 1 |
| 71 | 54-28472 | X-Car Drive Gear | 1 |
| 72 | 342-M4-8 | Screw,Skt.Set M4-.7 X 8 | 2 |
| 73 | 54-28471 | X-Car Large Pulley | 1 |
| 74 | 67-27082 | Keyless Bushing (20mm) | 1 |
| 75 | 335-M6-20 | Screw,Skt.Hd. M6-1 X 20 | 3 |
| 76* | 54-28498 | Pause Guide Rail | 1 |

*Part of Item 17 (68-26597 Pause Paddle Assembly)

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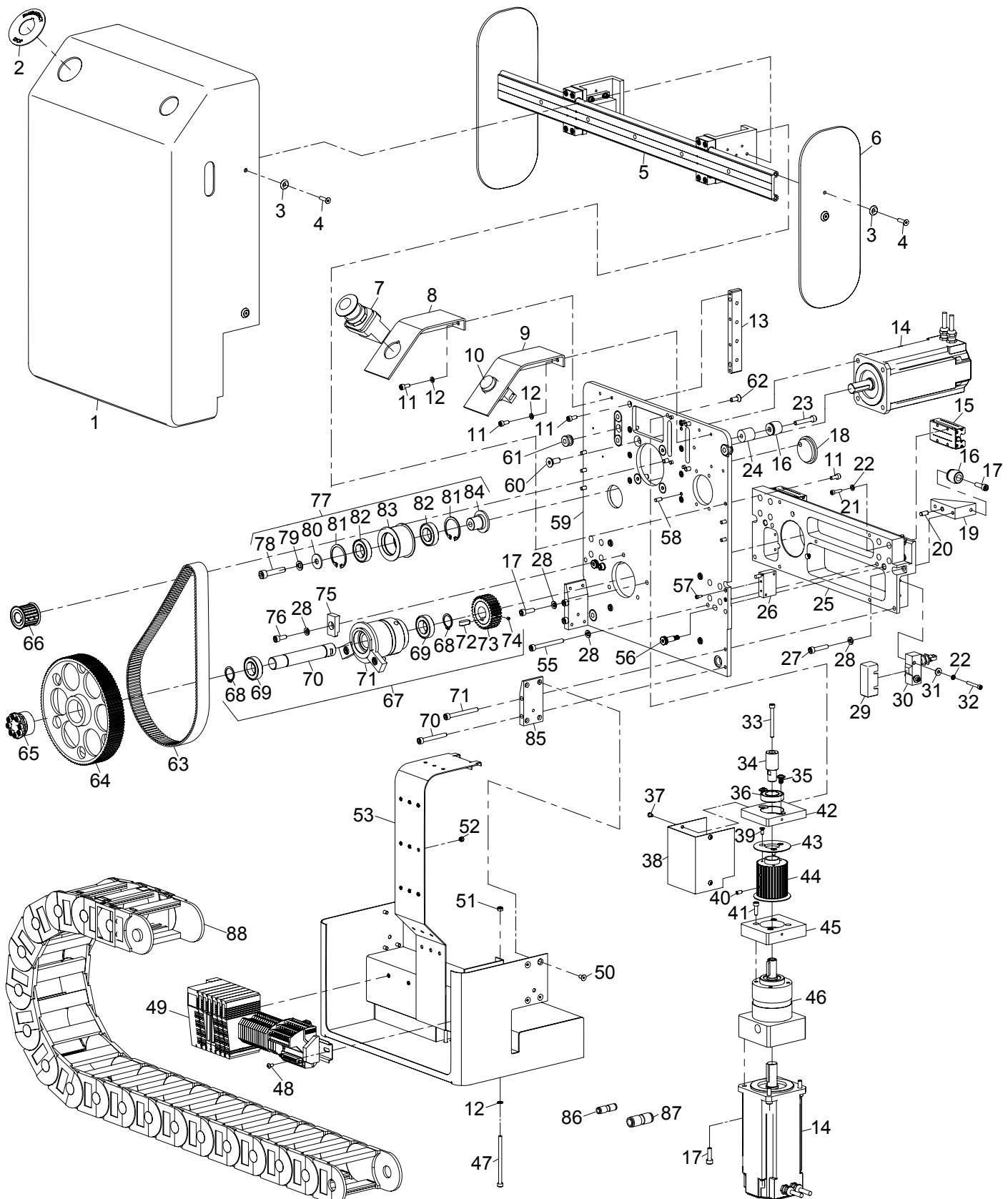
Gantry Non-Operator Side Assembly

68-26594

| Item | Part No. | Description | Qty. |
|------|-------------|-------------------------------|------|
| 1 | 54-28486 | Non Operator Panel Cover | 1 |
| 2 | 91-26011-1 | Decal, Emergency Stop | 1 |
| 3 | 67-27085 | Countersunk Washer (M5) | 8 |
| 4 | 332-M5-20 | Screw,Skt.Flt.Hd. M5-0.8X20 | 8 |
| 5 | 68-26597 | Pause Paddle Assy | 1 |
| 6 | 54-28495 | Paddle Non Operator | 2 |
| 7 | 31-26489 | E-Stop Red Mushroom | 1 |
| 8 | 54-28482-1 | Emergency Button Brkt | 1 |
| 9 | 54-28482 | Push Button Brkt | 1 |
| 10 | 31-26307 | Yellow Illuminated Pushbutton | 1 |
| 11 | 335-M5-12 | Screw,Skt.Hd. M5-.8X12 | 12 |
| 12 | 402-M5 | Washer, Lock M5 | 8 |
| 13 | 54-28489 | Main Tube Mtg. Insert | 2 |
| 14 | 31-27166 | Servomotor | 2 |
| 15 | 67-27015 | Linear Bearing Block | 2 |
| 16 | 67-26971 | Elastomer Bumper | 32 |
| 17 | 335-M6-20 | Screw,Skt.Hd. M6-1X20 | 12 |
| 18 | 54-28474 | Belt Tensioner Lock | 1 |
| 19 | 54-28477 | Bumper Stop Brkt | 2 |
| 20 | 532-M6-14 | Dowel, M6 X 14 | 2 |
| 21 | 335-M4-16 | Screw,Skt.Hd. M4-.7X16 | 8 |
| 22 | 402-M4 | Washer, Lock M4 | 16 |
| 23 | 335-M6-35 | Screw,Skt.Hd. M6-1X35 | 1 |
| 24 | 67-27222 | Spacer | 1 |
| 25 | 54-28469 | X-Car Mtg Block | 1 |
| 26 | 67-27090 | Proximity Block Sensor | 1 |
| 27 | 335-M6-30 | Screw,Skt.Hd. M6-1X30 | 2 |
| 28 | 402-M6 | Washer, Lock M6 | 9 |
| 29 | 11-1167 | Box, Limit Switch | 2 |
| 30 | 31-00922 | Switch,Roller,90-Deg | 2 |
| 31 | 410-M4 | Washer, Flt M4 | 4 |
| 32 | 335-M4-30 | Screw,Skt.Hd. M4-.7X30 | 4 |
| 33 | 335-M5-50 | Screw,Skt.Hd. M5-.8X50 | 1 |
| 34 | 54-28467 | Pulley Shaft | 1 |
| 35 | 67-27093 | Flanged Bshcs | 2 |
| 36 | 67-27080 | Deep Groove Ball Bearing | 1 |
| 37 | 333-M4-6 | Screw,Skt.Btn.Hd. M4-0.7X6 | 4 |
| 38 | 54-28690 | Belt Cover - None Op | 1 |
| 39 | 332-M4-10 | Screw,Skt.Flt.Hd. M4-.7X10 | 9 |
| 40 | 342-M5-10-6 | Screw,Skt.Set M5-.8 X 10 | 2 |
| 41 | 335-M5-16 | Screw,Skt.Hd. M5-.8X16 | 4 |
| 42 | 54-28464 | Upper Plate Pulley Brkt | 1 |
| 43 | 54-28497 | Pulley Flange | 2 |
| 44 | 54-28466 | Y-Drive Pulley | 1 |

| Item | Part No. | Description | Qty. |
|------|--------------|-----------------------------|------|
| 45 | 54-28465 | Lower Plate Pulley | 1 |
| 46 | 67-27083 | Planetary Gearbox | 1 |
| 47 | 335-M5-80 | Screw,Skt.Hd. M5-.8X80 | 4 |
| 48 | 333-M4-8 | Screw,Skt.Btn.Hd. M4-0.7X8 | 4 |
| 49 | 68-26600 | Gantry Din Rail Assy | 1 |
| 50 | 332-M5-10 | Screw,Skt.Flt.Hd. M5-.8X10 | 12 |
| 51 | 211-M5 | Nut, Metric Elastic M5 | 4 |
| 52 | 175C1-24 | Insert, Captive Nut | 21 |
| 53 | 54-28480 | X-Car E-Chain Mount | 1 |
| 54 | 335-M6-50 | Screw,Skt.Hd. M6-1X50 | 2 |
| 55 | 335-M6-60 | Screw,Skt.Hd. M6-1X60 | 4 |
| 56 | 67-27198 | Shoulder Screw | 2 |
| 57 | 335-M3-8 | Screw,Skt.Hd. M3-.5X8 | 2 |
| 58 | 532-M5-12 | Pin, Dowel M5X12 | 6 |
| 59 | 54-28463 | Side Base Plate | 1 |
| 60 | 332-M8-20 | Screw,Skt.Flt.Hd. M8-1.25X2 | 4 |
| 61 | 9015-0003 | Grommet, Rubber | 5 |
| 62 | 332-M6-16 | Screw,Skt.Flt.Hd. M6-1X16 | 4 |
| 63 | 67-27079 | Timing Belt, 5Gt2,160t,25mm | 1 |
| 64 | 54-28471 | X-Car Large Pulley | 1 |
| 65 | 67-27082 | Keyless Bushing (20mm) | 1 |
| 66 | 54-28481 | Timing Pulley,5Gt2,28 T | 1 |
| 67 | 68-26595 | X-Car Drive Assy | 1 |
| 68 | 632-20-D471 | Ring,Rtn.External 20X1.2 | 2 |
| 69 | 67-27080 | Deep Groove Ball Bearing | 2 |
| 70 | 54-28470 | X-Car Drive Shaft | 1 |
| 71 | 54-28468 | X-Car Bearing Housing | 1 |
| 72 | 632-20-D471 | Ring,Rtn.External 20X1.2 | 2 |
| 73 | 54-28472 | X-Car Drive Gear | 1 |
| 74 | 342-M4-8 | Screw,Skt.Set M4-.7 X 8 | 2 |
| 75 | 54-28473 | Clamp | 3 |
| 76 | 335-M6-16 | Screw,Skt.Hd. M6-1X16 | 3 |
| 77 | 68-26596 | Belt Tension Wheel Assy | 1 |
| 78 | 335-M8-40 | Screw,Skt.Hd. M8-1.25 X 40 | 1 |
| 79 | 402-M8 | Washer, Lock M8 | 1 |
| 80 | 401-M8-D9021 | Washer, 8 X 24 X 2 | 1 |
| 81 | 631-37-D472 | Ring,Rtn-Internal 37 X 1.5 | 2 |
| 82 | 67-27080 | Deep Groove Ball Bearing | 2 |
| 83 | 54-28476 | Tensioner Flange Shaft | 1 |
| 84 | 54-28475 | Tensioner Flange Shaft | 1 |
| 85 | 54-28479 | Mounting Plate | 2 |
| 86 | 100-11-31 | Connector, Straight Plug In | 1 |
| 87 | 100-11-32 | Connector, Straight Plug In | 1 |
| 88* | 67-27014 | E-Chain, Raptor | 1 |

*Not Included in Assembly



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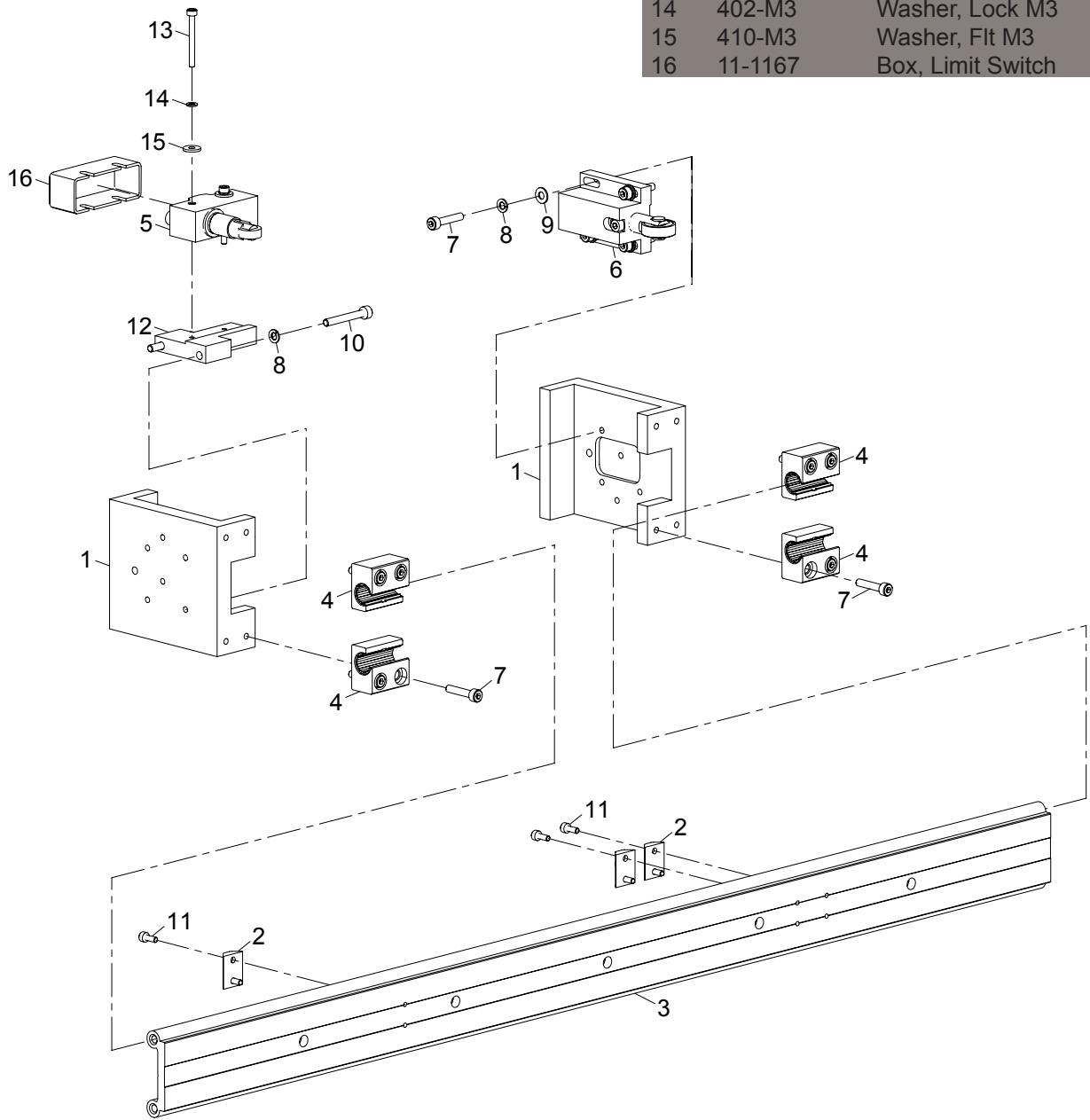
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Pause Paddle Assembly

68-26597

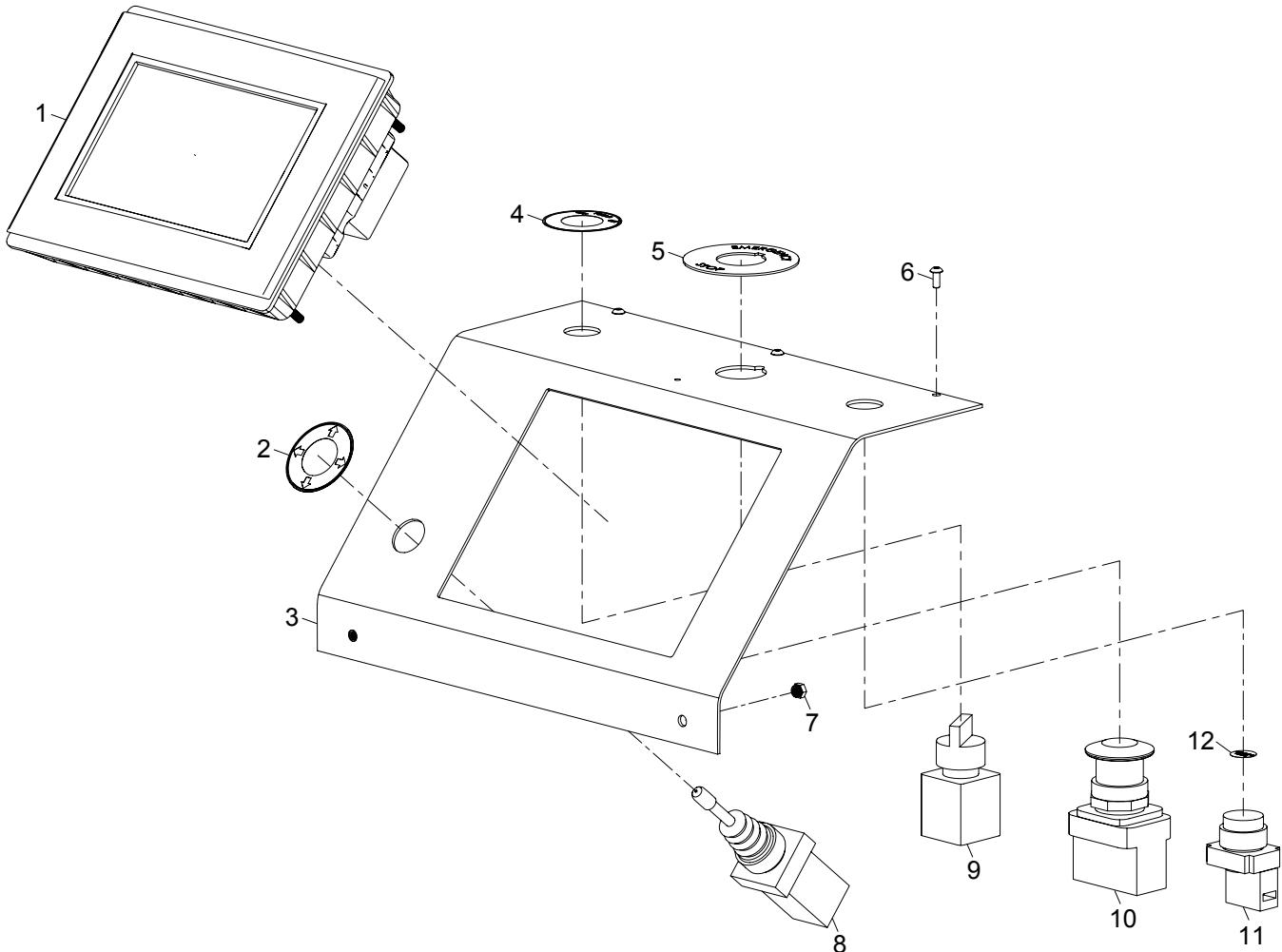
| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|--------------------------|------|
| 1 | 54-28484 | Pause Assy Brkt | 2 |
| 2 | 54-28487 | Pause Cam | 3 |
| 3 | 54-28498 | Pause Guide Rail | 1 |
| 4 | PF-13425-1 | Linear Bearing,10mm | 4 |
| 5 | 67-27073 | Switch | 1 |
| 6 | 67-27084 | Roller Plunger | 1 |
| 7 | 335-M4-20 | Screw,Skt.Hd. M4-.7 X 20 | 12 |

| Item | Part No. | Description | Qty. |
|------|-----------|--------------------------|------|
| 8 | 402-M4 | Washer, Lock M4 | 6 |
| 9 | 401-M4 | M4 Narrow Flat Washer | 4 |
| 10 | 335-M4-30 | Screw,Skt.Hd. M4-.7 X 30 | 2 |
| 11 | 335-M3-8 | Screw,Skt.Hd. M3-.5 X 8 | 6 |
| 12 | 54-28650 | Switch Brkt | 1 |
| 13 | 335-M3-30 | Screw,Skt.Hd. M3-.5 X 30 | 2 |
| 14 | 402-M3 | Washer, Lock M3 | 2 |
| 15 | 410-M3 | Washer, Flt M3 | 2 |
| 16 | 11-1167 | Box, Limit Switch | 1 |



Gantry Control Panel Assembly

68-26598



| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|------------|-------------------------------|------|
| 1 | 31-26441-1 | Touchscreen Unit G72 | 1 |
| 2 | 91-26076 | Decal, Joystick Directions | 1 |
| 3 | 54-28493 | Unit Control Panel, Multiply | 1 |
| 4 | 91-26075 | Decal, Tool On/Off | 1 |
| 5 | 91-26011-1 | Decal, Emergency Stop | 1 |
| 6 | 333-M4-10 | Screw,Skt.Btn.Hd. M4-.7X10 | 3 |
| 7 | 175C1-23 | Insert, Captive Nut M5x0.8 | 2 |
| 8 | 31-12947 | Joystick, 4 Position | 1 |
| 9 | 31-26331 | Green Illuminated Selector | 1 |
| 10 | 31-26489 | E-Stop Red Mushroom | 1 |
| 11 | 31-26307 | Yellow Illuminated Pushbutton | 1 |
| 12 | 91-26041 | Decal, Button Labels | 23 |

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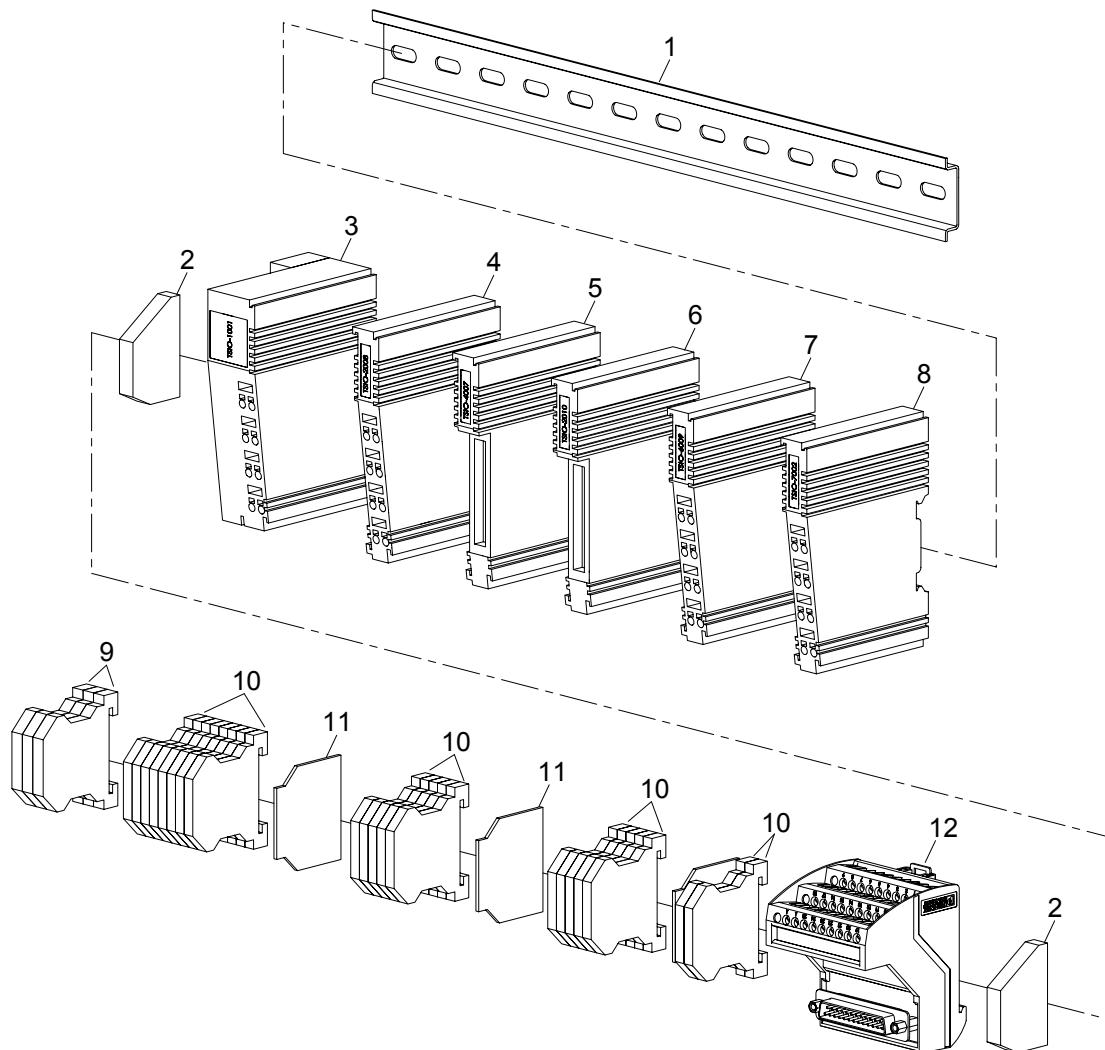
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Gantry Din Rail Assembly

68-26600

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|-------------|-----------------------------|------|
| 1 | 31-00739-13 | 13" Terminal Mount | 1 |
| 2 | 31-26414 | Terminal End Clamps | 2 |
| 3 | 31-26366 | Tsio-1001 Slice I/O | 1 |
| 4 | 31-26367 | Tsio-2008 Slice 8 | 1 |
| 5 | 31-27156 | Tsio-4007 16 Channel | 1 |
| 6 | 31-27155 | Tsio-2010 16 Channel | 1 |
| 7 | 31-26799 | Tsio-6009 Slice Analog | 1 |
| 8 | 31-26369 | Tsio-7002 Slice Analog | 1 |
| 9 | 31-26405 | Ground Terminal Block | 3 |
| 10 | 31-26384 | Terminal Block - Din Mt 5mm | 20 |
| 11 | 31-27192 | Terminal Block Isolation | 1 |
| 12 | 31-26405 | Ground Terminal Block | 3 |
| 13 | 31-26695 | DB25 Male Screw Terminal | 1 |
| 14* | 31-27191 | Terminal Block Jumpers | 1 |

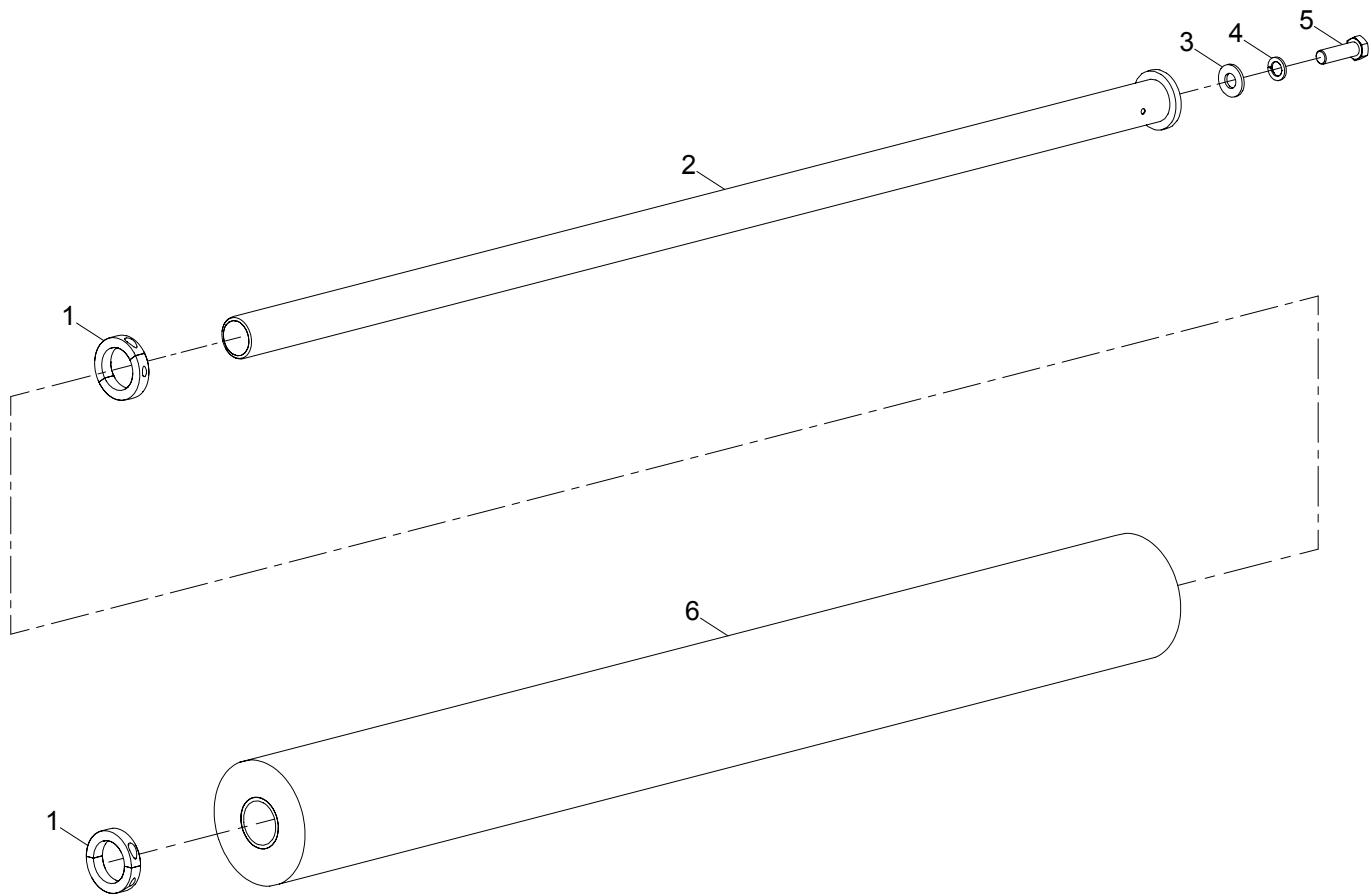
*Not Shown



Paper Roll Pay-Off Assembly

68-26562

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|-------------|----------------------------|------|
| 1 | 67-27012-1 | Clamp On Collar | 2 |
| 2 | 54-28297 | Paper Roll Guide Shaft | 1 |
| 3 | 410-M24 | Washer, Flt M24 | 1 |
| 4 | 402-M24 | Washer, Lock M24 | 1 |
| 5 | 331-M24-80 | Screw,Hex Hd. M24-3 X 80 | 1 |
| 6 | 67-26754-82 | Kraft Paper,Perforated,82" | 1 |



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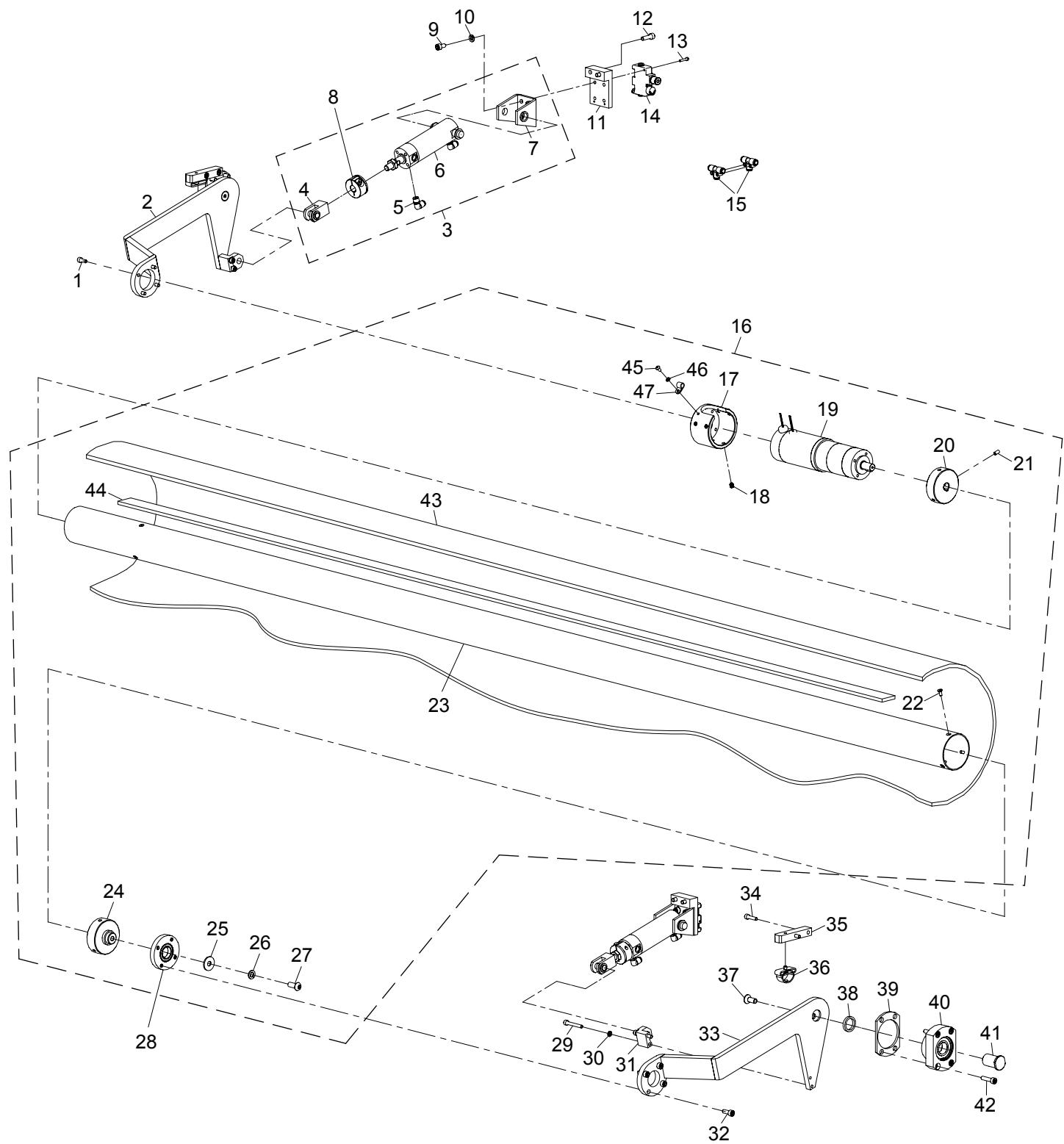
Resealer Gantry Side Assembly

68-26611

| Item | Part No. | Description | Qty. |
|------|-------------|------------------------------|------|
| 1 | 335-M5-12 | Screw,Skt.Hd. M5-.8 X 12 | 4 |
| 2 | 54-28536 | Swivel Arm Rear | 1 |
| 3 | 68-26613 | Gantry Reasealer Lift Assy | 2 |
| 4 | 27-26084 | Cylinder Shaft Knuckle Joint | 2 |
| 5 | 100-13-43 | Elbow Connector, Male 1/8 | 4 |
| 6 | 27-26082 | Air Cylinder Ø32 X 50 Stk | 2 |
| 7 | 27-26083 | Cylinder Pivot Brkt | 2 |
| 8 | 67-27226 | Shaft Collar W/Urethane | 2 |
| 9 | 335-M6-12 | Screw,Skt.Hd. M6-1 X 12 | 8 |
| 10 | 402-M6 | Washer, Lock M6 | 8 |
| 11 | 54-28699 | Cylinder Bracket | 2 |
| 12 | 335-M6-20 | Screw,Skt.Hd. M6-1 X 20 | 4 |
| 13 | 335-M3-16 | Screw,Skt.Hd. M3-.5 X 16 | 4 |
| 14 | 27-27090 | Regulator, Single Unit | 2 |
| 15 | 100-14-19 | Tee Branch, Ø6mm Tube | 2 |
| 16 | 68-26614 | Torque Roller Assy | 1 |
| 17 | 54-28532 | Gearmotor Mtg Hub | 1 |
| 18 | 67-27212 | Set Screw M6 X1.0x6, Brass | 6 |
| 19 | 67-27105 | Gearmotor | 1 |
| 20 | 54-28531-10 | Motor Shaft Collar | 1 |
| 21 | 342-M5-10-2 | Screw,Skt.Set M5-.8 X 10 | 2 |
| 22 | 332-M4-10 | Screw,Skt.Flt.Hd. M4-.7 X 10 | 6 |
| 23 | 54-28531 | Resealer Roller | 1 |

| Item | Part No. | Description | Qty. |
|------|--------------|-----------------------------|------|
| 24 | 54-28531-20 | Bearing Hub | 1 |
| 25 | 401-M8-D9021 | Washer, 8 X 24 X 2 | 1 |
| 26 | 402-M8 | Washer, Lock M8 | 1 |
| 27 | 333-M8-20 | Screw,Skt.Btn.Hd.M8-1.25X2 | 1 |
| 28 | 67-27108 | Bearing Housing | 1 |
| 29 | 335-M5-35 | Screw,Skt.Hd. M5-.8 X 35 | 4 |
| 30 | 402-M5 | Washer, Lock M5 | 4 |
| 31 | 54-28538 | Swivel Brkt | 2 |
| 32 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 4 |
| 33 | 54-28537 | Swivel Arm Front | 1 |
| 34 | 335-M5-20 | Screw,Skt.Hd. M5-.8 X 20 | 4 |
| 35 | 54-28700 | Stop Bracket | 2 |
| 36 | 54-28698 | Damper, 15mm Stroke | 2 |
| 37 | 332-M8-20 | Screw,Skt.Flt.Hd. M8-1.25X2 | 2 |
| 38 | 54-28535 | Washer Spacer (20X26x4) | 2 |
| 39 | 54-28533 | Bearing Housing Spacer | 2 |
| 40 | 67-27107 | Bearing With Housing | 2 |
| 41 | 54-28534 | Swivel Shaft | 2 |
| 42 | 335-M6-25 | Screw,Skt.Hd. M6-1 X 25 | 8 |
| 43 | 67-27109 | Resealer 6Mil Plastic | 33ft |
| 44 | 67-26456 | Double Sided Tape,1" | A/R |
| 45 | 333-M4-8 | Screw,Skt.Btn.Hd. M4-.7 x 8 | 1 |
| 46 | 402-M4 | Washer, Lock M4 | 1 |
| 47 | 3397-00 | Cable Clamp, 1/4" Natural | 1 |

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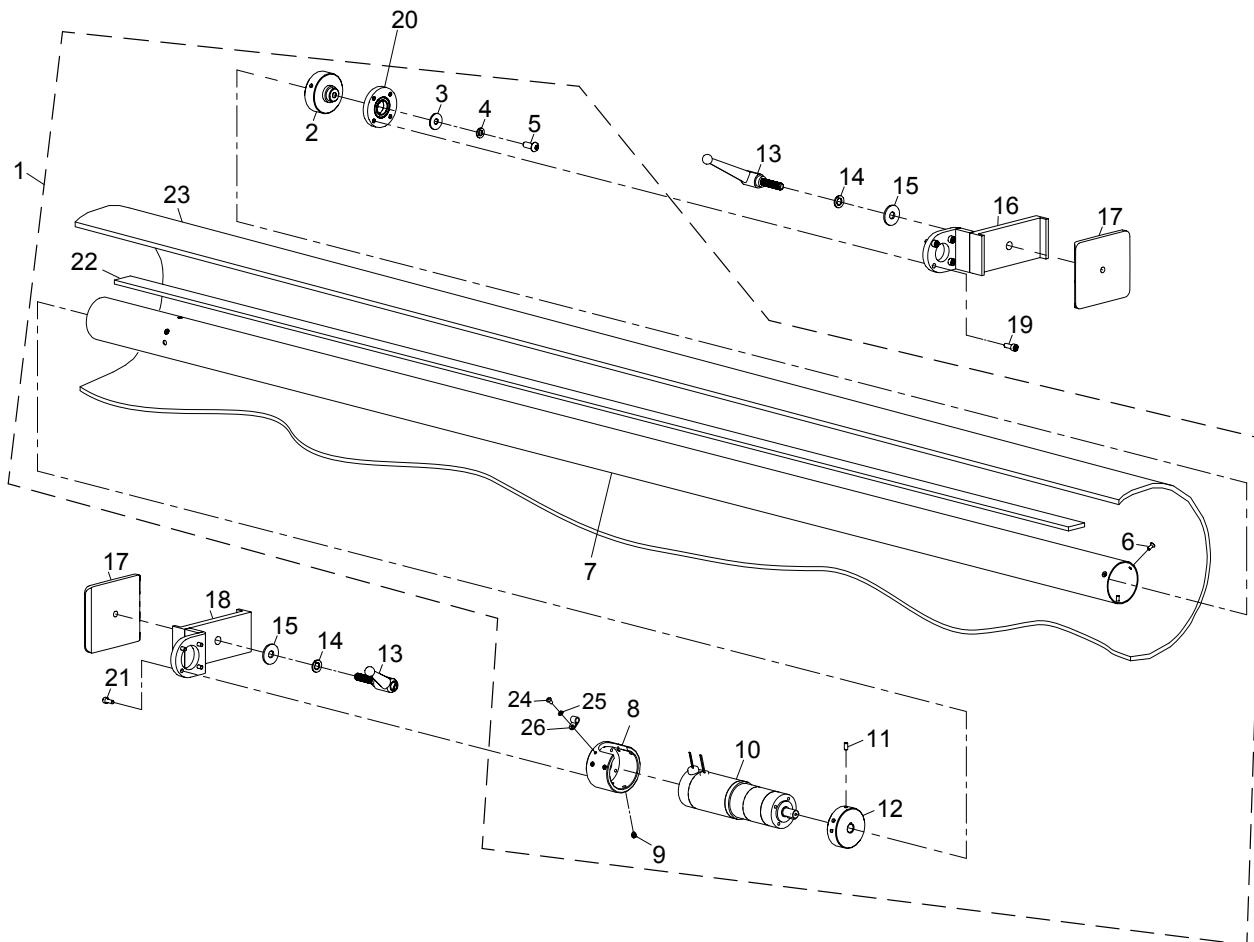
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Take-On Resealer Assembly

68-26612

| Item | Part No. | Description | Qty. |
|------|--------------|------------------------------|------|
| 1 | 68-26614 | Torque Roller Assy | 1 |
| 2 | 54-28531-20 | Bearing Hub | 1 |
| 3 | 401-M8-D9021 | Washer, 8 X 24 X 2 | 1 |
| 4 | 402-M8 | Washer, Lock M8 | 1 |
| 5 | 333-M8-20 | Screw,Skt.Btn.Hd. M8-1.25X2 | 1 |
| 6 | 332-M4-10 | Screw,Skt.Flt.Hd. M4-.7 X 10 | 6 |
| 7 | 54-28531 | Resealer Roller | 1 |
| 8 | 54-28532 | Gearmotor Mtg Hub | 1 |
| 9 | 67-27212 | Set Screw M6 X1.0x6, Brass | 6 |
| 10 | 67-27105 | Gearmotor | 1 |
| 11 | 342-M5-10-2 | Screw,Skt.Set M5-.8 X 10 | 2 |
| 12 | 54-28531-10 | Motor Shaft Collar | 1 |

| Item | Part No. | Description | Qty. |
|------|---------------|-----------------------------|------|
| 13 | 67-27110 | Adjustable Handle | 2 |
| 14 | 402-M10 | Washer, Lock M10 | 2 |
| 15 | 401-M10-D9021 | Washer, M10 - Din9021 | 2 |
| 16 | 54-28539 | Rewind Arm Front | 1 |
| 17 | 54-28541 | Clamp Plate | 2 |
| 18 | 54-28540 | Rewind Arm Rear | 1 |
| 19 | 335-M5-12 | Screw,Skt.Hd. M5-.8 X 12 | 4 |
| 20 | 67-27108 | Bearing Housing | 1 |
| 21 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 4 |
| 22 | 67-26456 | Double Sided Tape,1" | A/R |
| 23 | 67-27109 | Resealer 6Mil Plastic | 33ft |
| 24 | 333-M4-8 | Screw,Skt.Btn.Hd. M4-.7 x 8 | 1 |
| 25 | 402-M4 | Washer, Lock M4 | 1 |
| 26 | 3397-00 | Cable Clamp, 1/4" Natural | 1 |

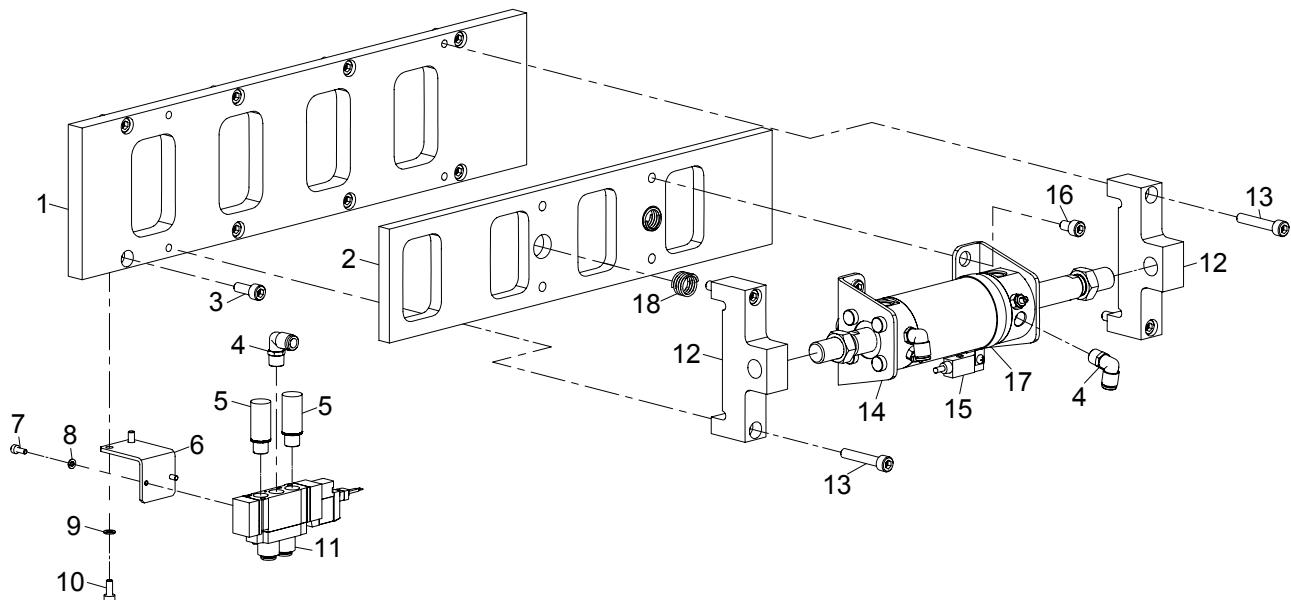


Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

Blastgate Assembly

68-26566

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|-----------|------------------------------|------|
| 1 | 54-28729 | Blastgate Base Plate | 1 |
| 2 | 54-28727 | Blastgate Gate Plate | 1 |
| 3 | 335-M6-16 | Screw,Skt.Hd. M6-1 X 16 | 8 |
| 4 | 100-13-43 | Elbow Connector, Male | 3 |
| 5 | 100-19-59 | Muffler 1/8 | 2 |
| 6 | 54-28728 | Valve Mounting Brkt | 1 |
| 7 | 335-M3-8 | Screw,Skt.Hd. M3-.5 X 8 | 2 |
| 8 | 402-M3 | Washer, Lock M3 | 2 |
| 9 | 402-M4 | Washer, Lock M4 | 2 |
| 10 | 335-M4-10 | Screw,Skt.Hd. M4-.7 X 10 | 2 |
| 11 | 27-27099 | Valve 2 Pos, 3 Ports, 24 Vdc | 1 |
| 12 | 54-28726 | Blastgate Cylinder Rod Mount | 2 |
| 13 | 335-M6-35 | Screw,Skt.Hd. M6-1 X 35 | 4 |
| 14 | 27-27098 | Air Cylinder Ø40 X 40.0 Stk | 1 |
| 15 | 31-26783 | Cylinder Sensor | 1 |
| 16 | 335-M6-10 | Screw,Skt.Hd. M6-1 X 10 | 4 |
| 17 | 27-27100 | Cyl Switch Mtg Band Ø40mm | 1 |
| 18 | 67-27048 | Compression Spring | 2 |



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ordering replacement parts.

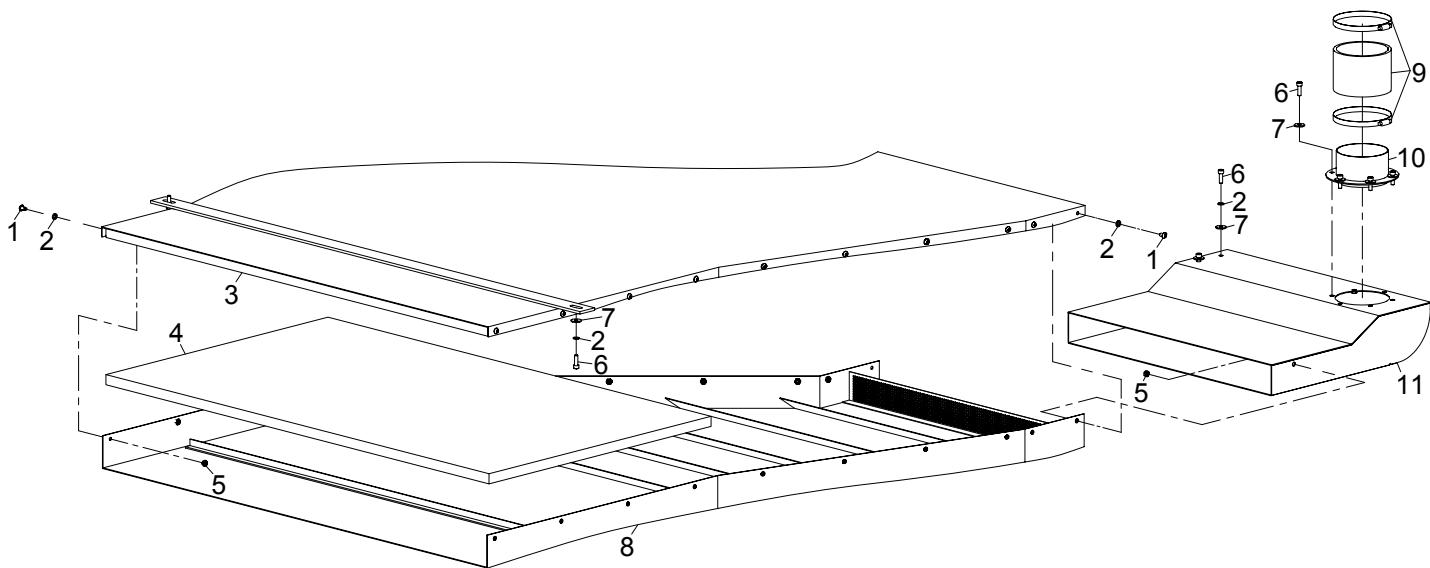
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Exhaust Bottom Silencer Assembly

68-26559

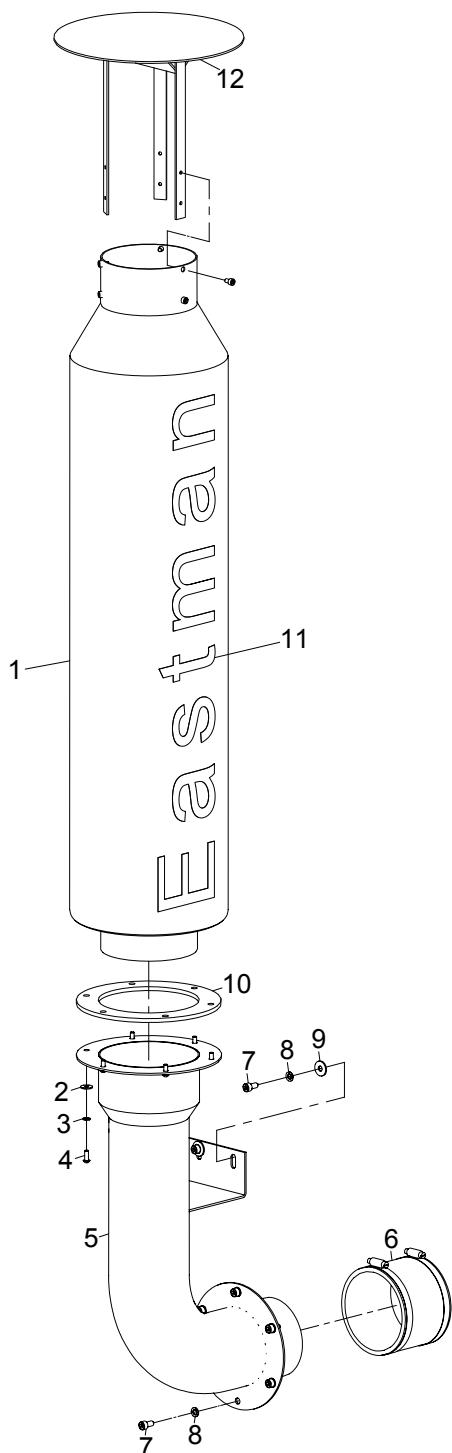
| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|-----------|----------------------------|------|
| 1 | 333-M8-12 | Screw,Skt.Btn.Hd.M8-1.25X1 | 21 |
| 2 | 402-M8 | Washer, Lock M8 | 31 |
| 3 | 54-28311 | Top Silenser Cover | 1 |
| 4 | 54-28309 | Acoustical Foam | 2 |
| 5 | 175C1-25 | Insert,Captive Hex Nut | 29 |
| 6 | 335-M8-25 | Screw,Skt.Hd. M8-1.25 X 25 | 10 |
| 7 | 410-M8 | Washer, Flt M8 | 10 |
| 8 | 54-28310 | Bottom Silencer Shell | 1 |
| 9 | 67-27006 | Flexible Pipe Fitting | 1 |
| 10 | 54-28295 | Exhaust Connector | 1 |
| 11 | 54-28298 | Exhaust Deflector | 1 |



Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

Exhaust Side Silencer Assembly

68-26559-1



| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|--------------|---------------------------|------|
| 1 | 67-27178-1 | Double Silencer, Raptor | 1 |
| 2 | 410-M6 | Washer, Flt M6 | 6 |
| 3 | 402-M6 | Washer, Lock M6 | 6 |
| 4 | 333-M6-20 | Screw,Skt.Btn.Hd. M6-1X20 | 6 |
| 5 | 54-28730 | Exhaust Stack Elbow | 1 |
| 6 | 67-27006 | Flexible Pipe Fitting | 1 |
| 7 | 335-M8-16 | Screw,Skt.Hd. M8-1.25X16 | 8 |
| 8 | 402-M8 | Washer, Lock M8 | 8 |
| 9 | 401-M8-D9021 | Washer, 8 X 24 X 2 | 2 |
| 10 | 54-28757 | Gasket, Exhaust Silencer | 1 |
| 11 | 91-26004 | Decal, Large Worldwide | 1 |
| 12* | 54-27920 | Exhaust Top Hat | 1 |

*Not Included in Assembly

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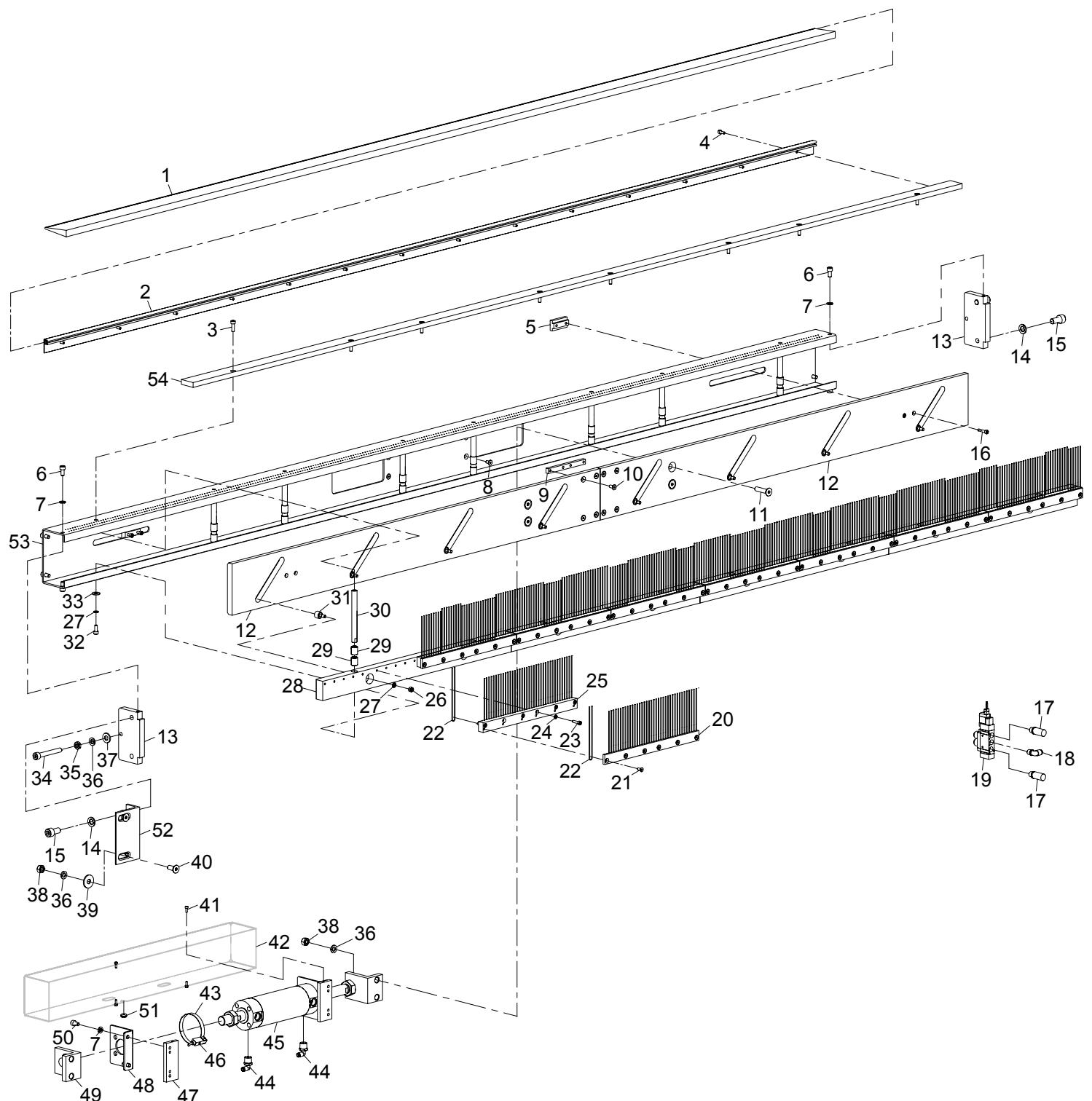
Bristle Cleaner Assembly

68-26568

| Item | Part No. | Description | Qty. |
|-------------|-----------------|-------------------------------|-------------|
| 1 | 54-28174 | Strip Brush | 1 |
| 2 | 54-28173 | Brush Holder | 1 |
| 3 | 335-M5-16 | Screw,Skt.Hd. M5-.8 X 16 | 8 |
| 4 | 335-M4-10 | Screw,Skt.Hd. M4-.7 X 10 | 14 |
| 5 | 54-28740 | Support Guide | 2 |
| 6 | 335-M6-12 | Screw,Skt.Hd. M6-1 X 12 | 8 |
| 7 | 402-M6 | Washer, Lock M6 | 12 |
| 8 | 332-M5-10 | Screw,Skt.Flt.Hd. M5-.8 X 10 | 4 |
| 9 | 54-28736 | Bristle Cleaner Slide Connect | 2 |
| 10 | 332-M5-12 | Screw,Skt.Flt.Hd. M5-.8 X 12 | 8 |
| 11 | 332-M8-35 | Screw,Skt.Flt.Hd. M8-1.25X354 | |
| 12 | 54-28165 | Cam Bar | 2 |
| 13 | 54-28171 | End Cup | 2 |
| 14 | 402-M10 | Washer, Lock M10 | 4 |
| 15 | 335-M10-20 | Screw,Skt.Hd. M10-1.5 X 20 | 4 |
| 16 | 335-M4-20 | Screw,Skt.Hd. M4-.7 X 20 | 4 |
| 17 | 100-19-59 | Muffler 1/8 Rc | 2 |
| 18 | 100-13-43 | Elbow Connector, Male 1/8 | 1 |
| 19 | 27-27099 | Valve 2 Pos, 3 Ports | 1 |
| 20 | 54-28169 | Bristle Outer Clamp | 8 |
| 21 | 332-M4-10 | Screw,Skt.Flt.Hd. M4-.7 X 10 | 48 |
| 22 | 54-28170 | Bristle Wire | 320 |
| 23 | 335-M4-16 | Screw,Skt.Hd. M4-.7 X 16 | 48 |
| 24 | 402-M4 | Washer, Lock M4 | 48 |
| 25 | 54-28168 | Bristle Inner Clamp | 8 |
| 26 | 203-M5 | Nut, Fin. Hex M5-0.8 | 2 |
| 27 | 402-M5 | Washer, Lock M5 | 16 |
| 28 | 54-28166 | Bristle Mtg Bar | 4 |
| 29 | 67-26957 | Bushing 10X12x15 | 16 |
| 30 | 54-28167 | Guide Shaft | 8 |
| 31 | 67-26956 | Cam Follower M13 | 8 |
| 32 | 335-M5-12 | Screw,Skt.Hd. M5-.8 X 12 | 8 |
| 33 | 410-M5 | Washer, Flt M5 | 8 |
| 34 | 67-26960 | M8xP1.25x60 | 1 |

| Item | Part No. | Description | Qty. |
|-------------|-----------------|-----------------------------|-------------|
| 35 | 206-M8 | Nut,Jam M8x1.25 | 1 |
| 36 | 402-M8 | Washer, Lock M8 | 7 |
| 37 | 401-M8 | M8 Narrow Flat Washer | 1 |
| 38 | 203-M8 | Nut, Fin. Hex M8-1.25 | 6 |
| 39 | 410-M8 | Washer, Flt M8 | 2 |
| 40 | 332-M8-20 | Screw,Skt.Flt.Hd. M8-1.25X2 | 2 |
| 41 | 335-M3-8 | Screw,Skt.Hd. M3-.5X8 | 4 |
| 42 | 54-28176 | Cylinder Cover | 1 |
| 43 | 27-27102 | Cyl Switch Mtg Band | 1 |
| 44 | 100-13-38 | Elbow Connector, Male | 2 |
| 45 | 27-27101 | Air Cylinder Ø50 X 75 Strk | 1 |
| 46 | 31-26783 | Cylinder Sensor | 1 |
| 47 | 54-28175 | Cylinder Mtg Spacer | 2 |
| 48 | 54-28738 | Cylinder Mtg Brkt | 2 |
| 49 | 54-28737 | Cylinder Rod Connector | 2 |
| 50 | 335-M6-10 | Screw,Skt.Hd. M6-1 X 10 | 4 |
| 51 | 9015-0006 | Grommet | 1 |
| 52 | 54-28739 | Bristle Cleaner Mtg Foot | 1 |
| 53 | 54-28164 | Bristle Cleaner Ram | 1 |
| 54 | 54-28172 | Strip Brush Mount | 1 |

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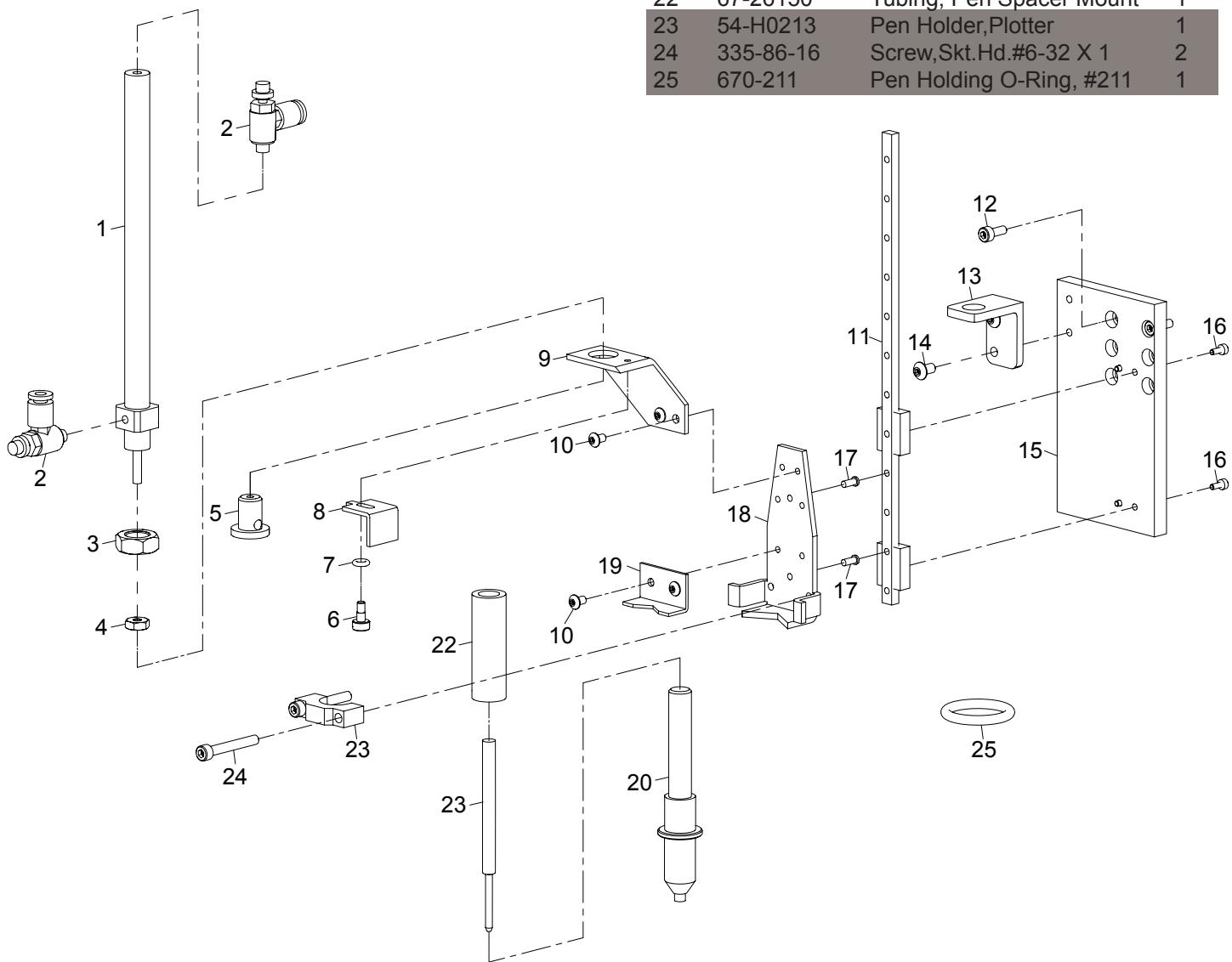
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Raptor Pen Assembly

68-26324-3

| Item | Part No. | Description | Qty. |
|------|-----------|-------------------------------|------|
| 1 | 27-27088 | Cylinder | 1 |
| 2 | 100-18-19 | Flow Control Valve | 2 |
| 3 | 206-39 | Nut,Jam Hex 3/8-24 | 1 |
| 4 | 203-84 | Nut,Fin.Hex. #5-40 | 1 |
| 5 | 54-26270 | Cyl End, Pen Assy | 1 |
| 6 | 355-2-2 | Screw,Slt.Hd.Shldr. 1/8 X 1/8 | 1 |
| 7 | 67-03004 | O-Ring, Buna-N 1/8 Id X 1/4 | 1 |
| 8 | 54-26269 | Slide Lock, Pen Assy | 1 |
| 9 | 54-28717 | Pen Cylinder Lift Bracket | 1 |
| 10 | 333-81-3 | Screw,Skt.Btn.Hd.#4-40 | 4 |

| Item | Part No. | Description | Qty. |
|------|------------|-------------------------------|------|
| 11 | 67-26408-2 | Pen Slide W/O Seal | 1 |
| 12 | 335-M3-8 | Screw,Skt.Hd. M3-.5 X 8 | 2 |
| 13 | 54-28716 | Pen Cylinder Mount | 1 |
| 14 | 333-86-4 | Screw,Skt.Btn.Hd.#6-32X1/4 | 2 |
| 15 | 54-28718 | Pen Lift Bracket, Mpc/Raptor | 1 |
| 16 | 335-2-5 | Screw,Skt.Hd. M2-.4 X 5 | 2 |
| 17 | 54-28341 | Rivet,Flt.Hd.Solid 3/32 X 1/4 | 2 |
| 18 | 54-26631 | Bracket, Pen Mounting | 1 |
| 19 | 54-28719 | Pen Bracket | 1 |
| 20 | 67-26151 | Ad30hp Plotter Pen Adapter | 1 |
| 21 | 67-26152 | Plotter Pen Refill Black | 1 |
| 22 | 67-26150 | Tubing, Pen Spacer Mount | 1 |
| 23 | 54-H0213 | Pen Holder,Plotter | 1 |
| 24 | 335-86-16 | Screw,Skt.Hd.#6-32 X 1 | 2 |
| 25 | 670-211 | Pen Holding O-Ring, #211 | 1 |

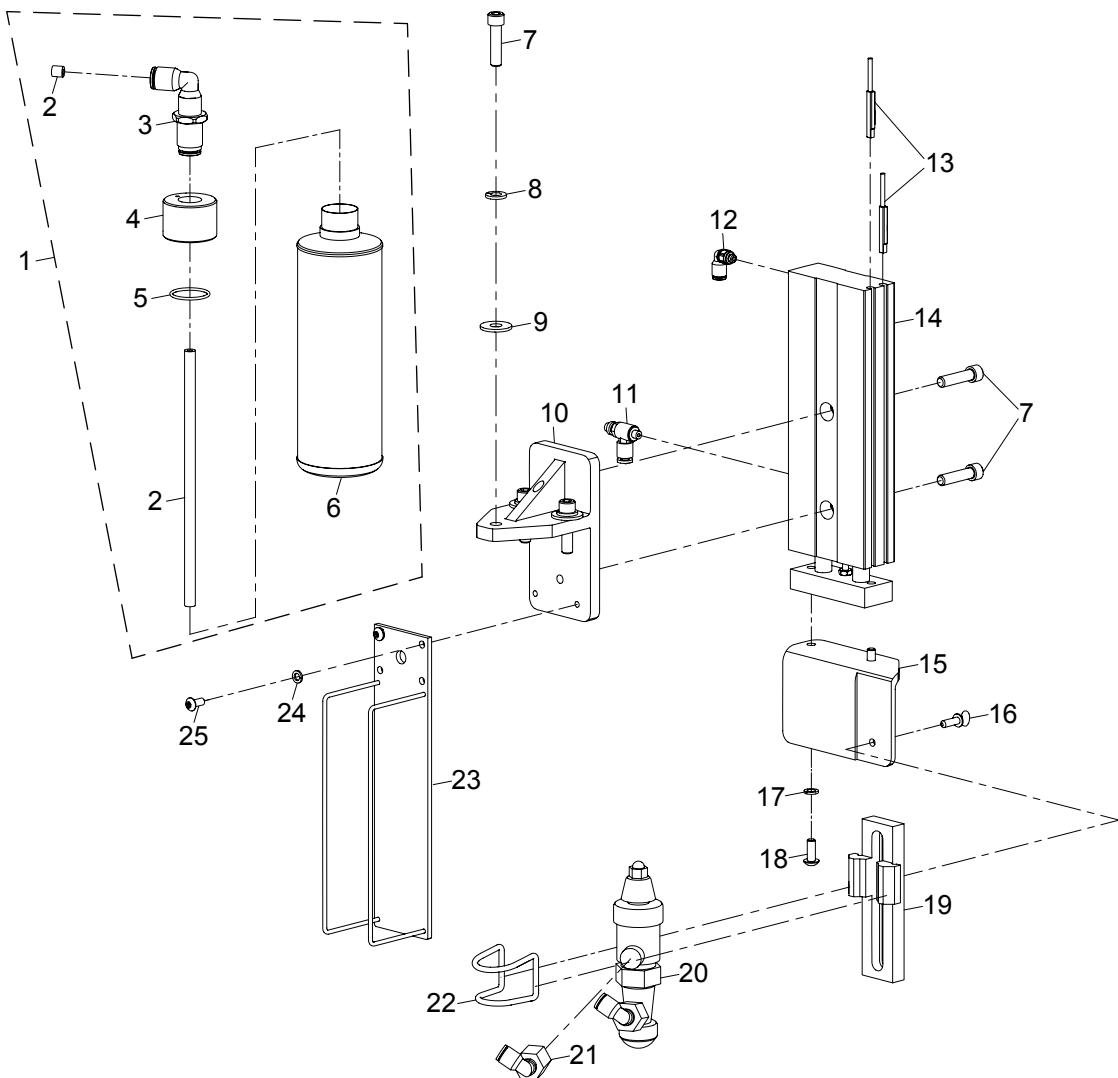


Air Brush Assembly

68-26505

| Item | Part No. | Description | Qty. |
|------|--------------|---------------------------|--------|
| 1 | 68-26333 | Ink Bottle Assy | 1 |
| 2 | 27-02996-3 | Tubing,Air,1/4", White | 3.75Ft |
| 3 | 100-13-12 | Bulkhead Elbow | 1 |
| 4 | 54-26453-4 | Ink Bottle Top | 1 |
| 5 | 670-019 | O-Ring, #019 | 1 |
| 6 | 242C1 U | Bottle, 8 Oz | 1 |
| 7 | 335-34-16 | Screw,Skt.Hd. 1/4-20 X 1 | 5 |
| 8 | 402-34 | Washer, Lock 1/4 | 3 |
| 9 | 410-34 | Washer, Flt. 1/4 | 3 |
| 10 | 54-27562-7-1 | Airbrush Mounting Bracket | 1 |
| 11 | 100-18-19 | Flow Control Valve | 1 |
| 12 | 100-13-13 | Elbow Swivel | 1 |

| Item | Part No. | Description | Qty. |
|------|------------|-----------------------------|------|
| 13 | 31-26509 | Sensor | 2 |
| 14 | 67-26757-7 | Twin Bore Cyl 20X100mm | 1 |
| 15 | 54-28192 | Airbrush Lift Bracket | 1 |
| 16 | 20C12-80 | Thumb Screw | 1 |
| 17 | 402-010 | Washer, Lock #10 | 2 |
| 18 | 333-102-8 | Screw,Skt.Btn.Hd.#10-32X1/2 | 2 |
| 19 | 54-28193 | Airbrush Adjusting Bracket | 1 |
| 20 | 27-26021 | Air Brush Sprayer | 1 |
| 21 | 100-13-9 | Female Swivel Elbow | 2 |
| 22 | 670-224 | O-Ring, #224 | 1 |
| 23 | 67-26351 | Bracket,External Mount | 1 |
| 24 | 402-080 | Washer, Lock #8 | 2 |
| 25 | 333-93-6 | Screw,Skt.Btn.Hd.#8-32X3/8 | 2 |

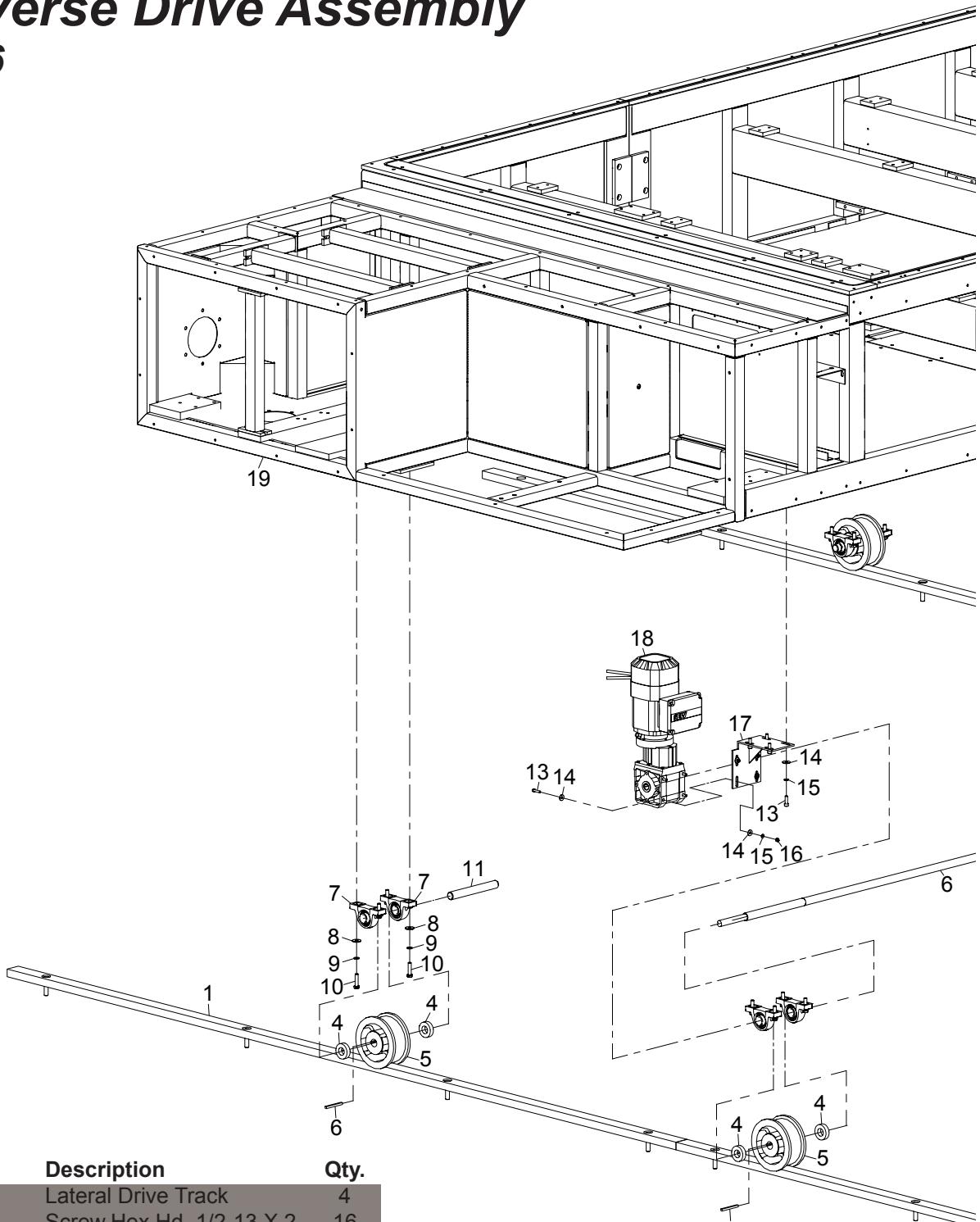


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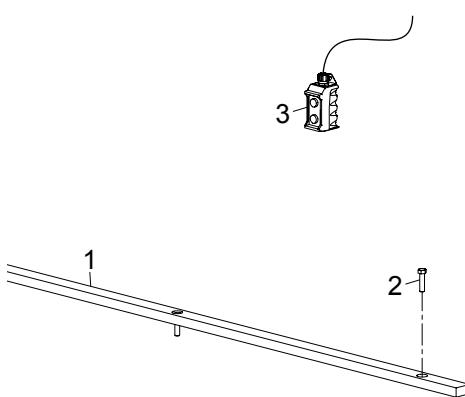
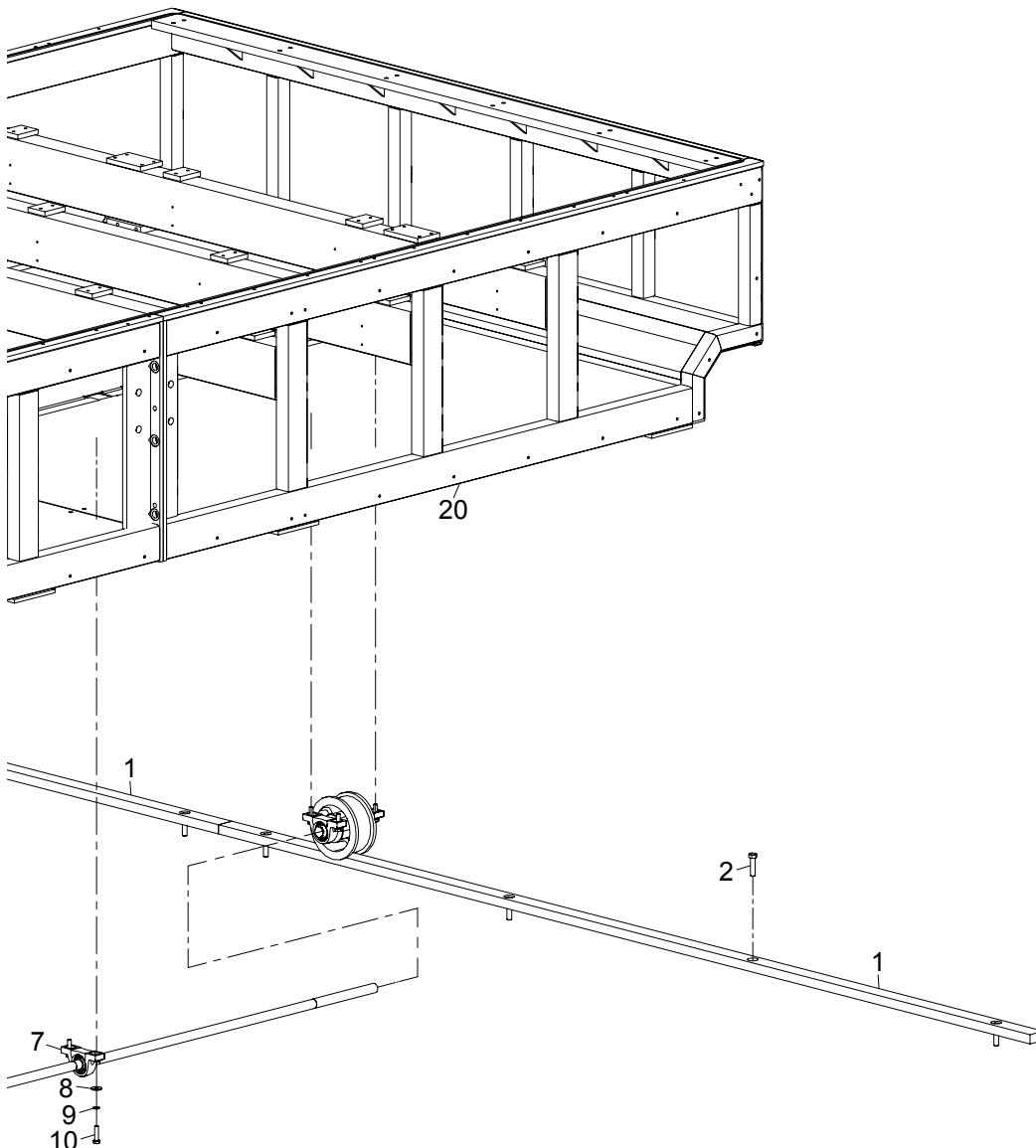
Over a Century of Cutting Expertise

Transverse Drive Assembly

68-26556



| Item | Part No. | Description | Qty. |
|------|------------|-------------------------------|------|
| 1 | 54-28725 | Lateral Drive Track | 4 |
| 2 | 357-43-32 | Screw, Hex Hd. 1/2-13 X 2 | 16 |
| 3 | 31-27052 | 2 Pushbutton Pendant | 1 |
| 4 | 54-28722 | Wheel Spacer | 8 |
| 5 | 54-28723 | Lateral Drive Track Wheel | 4 |
| 6 | 603-8-8-46 | Key Sq .25 X .25 X 2.875 | 4 |
| 7 | 67-27213 | Bearing, Pillow Block 1" Sets | 9 |
| 8 | 410-M10 | Washer, Flt M10 | 18 |



| Item | Part No. | Description | Qty. |
|------|------------|------------------------------|------|
| 9 | 402-M10 | Washer, Lock M10 | 18 |
| 10 | 331-M10-40 | Screw, Hex Hd. M10-1.5 X 40 | 18 |
| 11 | 54-28720 | Lateral Drive Short Shaft | 2 |
| 12 | 54-28721 | Lateral Drive Long Shaft | 1 |
| 13 | 335-M8-25 | Screw, Skt.Hd. M8-1.25 X 25 | 8 |
| 14 | 410-M8 | Washer, Flt M8 | 12 |
| 15 | 402-M8 | Washer, Lock M8 | 8 |
| 16 | 203-M8 | Nut, Fin. Hex M8-1.25 | 4 |
| 17 | 54-28724 | Lateral Drive Motor Mounting | 1 |
| 18 | 67-27214 | Lateral Drive Motor | 1 |
| 19* | 54-28301 | Machine Base Frame | 1 |
| 20* | 54-28302 | Machine Conveyor Frame | 1 |

*Not Included in Assembly

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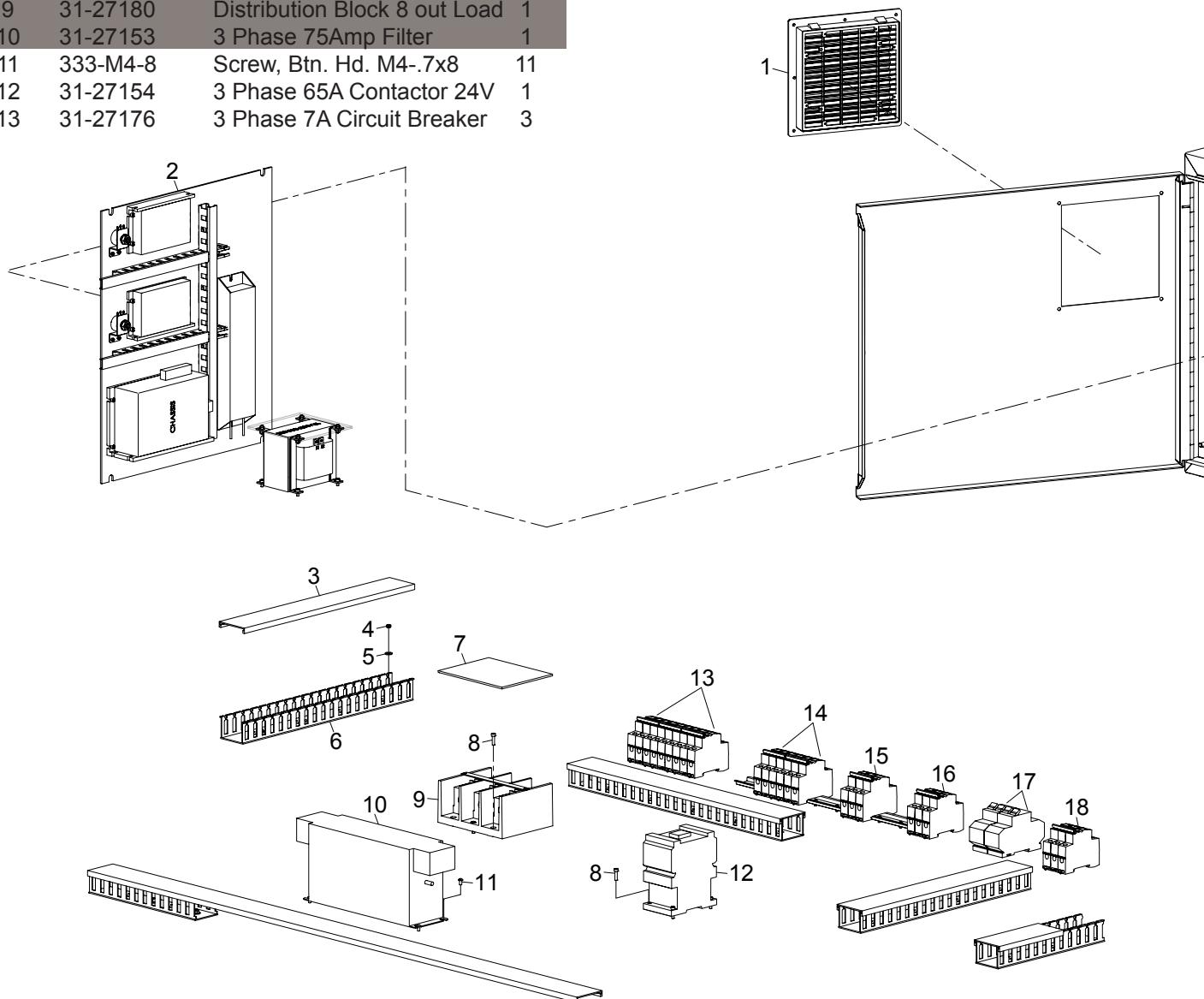
Over a Century of Cutting Expertise

Electrical Enclosure Assembly

68-26561

| Item | Part No. | Description | Qty. |
|------|-------------|---------------------------------|------|
| 1 | 31-27218 | Exhaust Grill | 1 |
| 2 | 68-26561-PB | Panel B, Raptor Enclosure | 1 |
| 3 | 70-26005 | Cover, Wiring Duct, 2' Wide 9ft | |
| 4 | 203-M4 | M4x0.7 Hex Nut | 24 |
| 5 | 410-M4 | Washer, Flt. M4 | 24 |
| 6 | 67-27151 | Duct, Wiring, 2"x1.5" | 9ft |
| 7 | 31-27180-1 | Distribution Block Cover | 1 |
| 8 | 335-M4-16 | Screw, Skt. Hd. M4-.7x16 | 11 |
| 9 | 31-27180 | Distribution Block 8 out Load | 1 |
| 10 | 31-27153 | 3 Phase 75Amp Filter | 1 |
| 11 | 333-M4-8 | Screw, Btn. Hd. M4-.7x8 | 11 |
| 12 | 31-27154 | 3 Phase 65A Contactor 24V | 1 |
| 13 | 31-27176 | 3 Phase 7A Circuit Breaker | 3 |

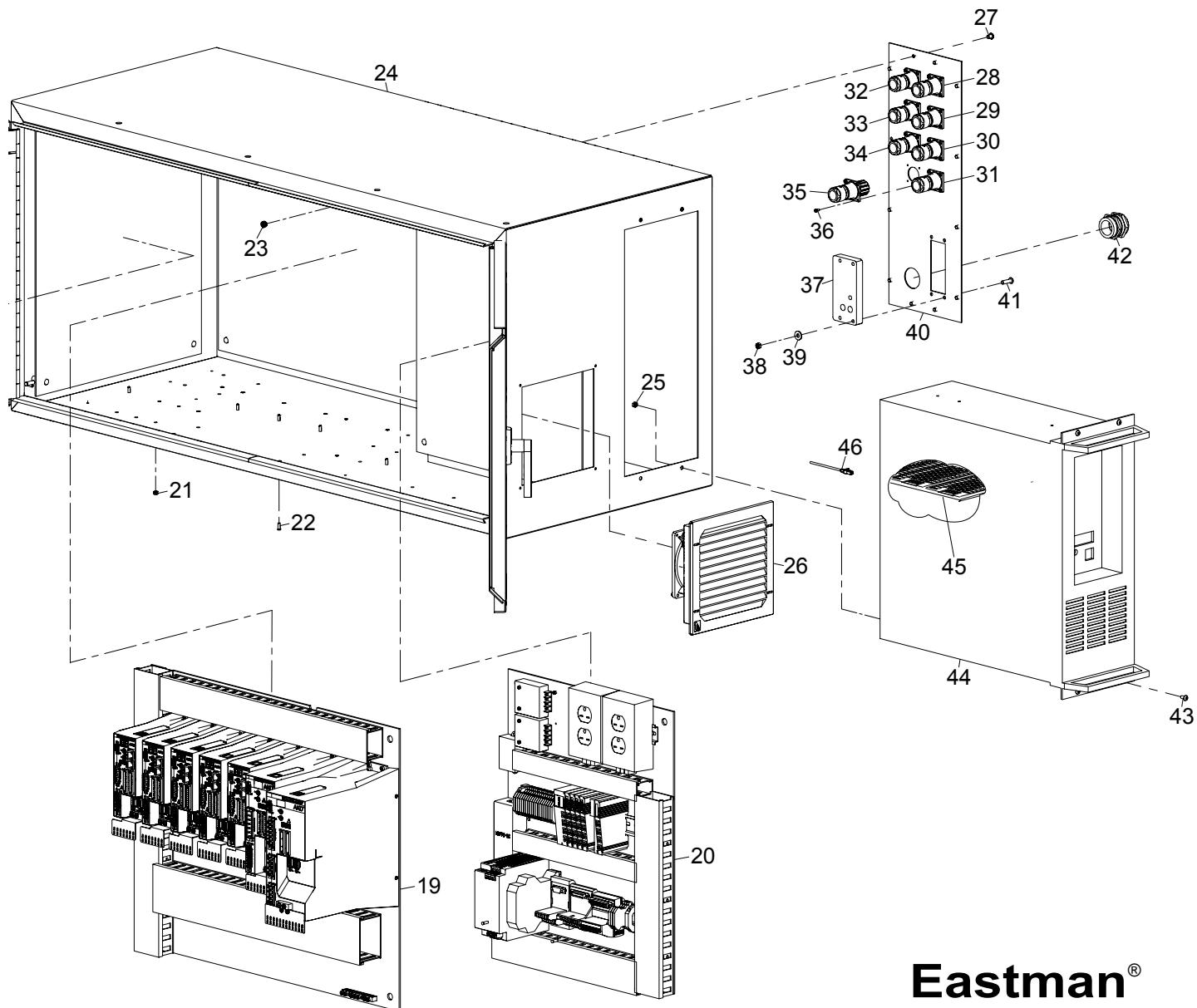
| Item | Part No. | Description | Qty. |
|------|-------------|-----------------------------|------|
| 14 | 31-27178 | 3 Phase 4A Circuit Breaker | 2 |
| 15 | 31-27177 | 3 Phase 15A Circuit Breaker | 1 |
| 16 | 31-27179 | 3 Phase 30A Circuit Breaker | 1 |
| 17 | 31-26667 | 2 Pole 10 Amp | 2 |
| 18 | 31-27268 | 3 Phase 63A Circuit Breaker | 1 |
| 19 | 68-26561-PC | Panel C, Raptor Enclosure | 1 |
| 20 | 68-26561-PA | Panel A, Raptor Enclosure | 1 |
| 21 | 175C1-24 | Insert, Captive Nut M4 | 21 |
| 22 | 67-27211-1 | Threaded Stud M4x.7-12 | 24 |
| 23 | 175C1-26 | Insert, Captive Nut M6 | 12 |



| Item | Part No. | Description | Qty. |
|------|-----------------|--------------------------------|------|
| 24 | 54-28270 | Electrical Enclosure | 1 |
| 25 | 175C1-23 | Insert, Captive Nut M3 | 4 |
| 26 | 31-27217 | Fan Filter 230VAC/54CFM | 1 |
| 27 | 333-M6-8 | Screw, Btn. Hd. M6-1x8 | 12 |
| 28 | 31-27181-X1 | X1 Panel Connector | 1 |
| 29 | 31-27181-Y | Y Panel Connector | 1 |
| 30 | 31-27181-TAKEOF | Take Off Panel Connector | 1 |
| 31 | 31-27183 | Conveyer Power Panel Connector | |
| 32 | 31-27181-X2 | X2 Panel Connector | |
| 33 | 31-27181-THETA | Theta Panel Connector | 1 |
| 34 | 31-27181-KNIFE | Knife Panel Connector | 1 |

| Item | Part No. | Description | Qty. |
|------|-----------------|-----------------------------|------|
| 35 | 31-27182 | Conveyor Feedback Connector | |
| 36 | 335-M3-6 | Screw, Skt. Hd. M3-.5x6 | 32 |
| 37 | 31-26703 | Laser Power Cable Bulkhead | 1 |
| 38 | 211-M6 | Nut, Elastic Light M6 | 4 |
| 39 | 401-M6 | M6 Narrow Flat Washer | 4 |
| 40 | 54-28649 | Enclosure Entrance Panel | 2 |
| 41 | 333-M6-25 | Screw, Btn. Hd. M6-1x25 | 4 |
| 42 | 67-26749 | Strain Relief | 2 |
| 43 | 333-M5-10 | Screw, Skt. Hd. M5-.5x10 | 32 |
| 44* | 10-26083-CE-RCK | Computer | 1 |
| 45* | 31-26358-3 | Synqnet Controller Card | 1 |
| 46* | 31-26495-3 | Cat 5E Cable RJ45/RJ45 3Ft | 1 |

*Included in Assembly 10-26090



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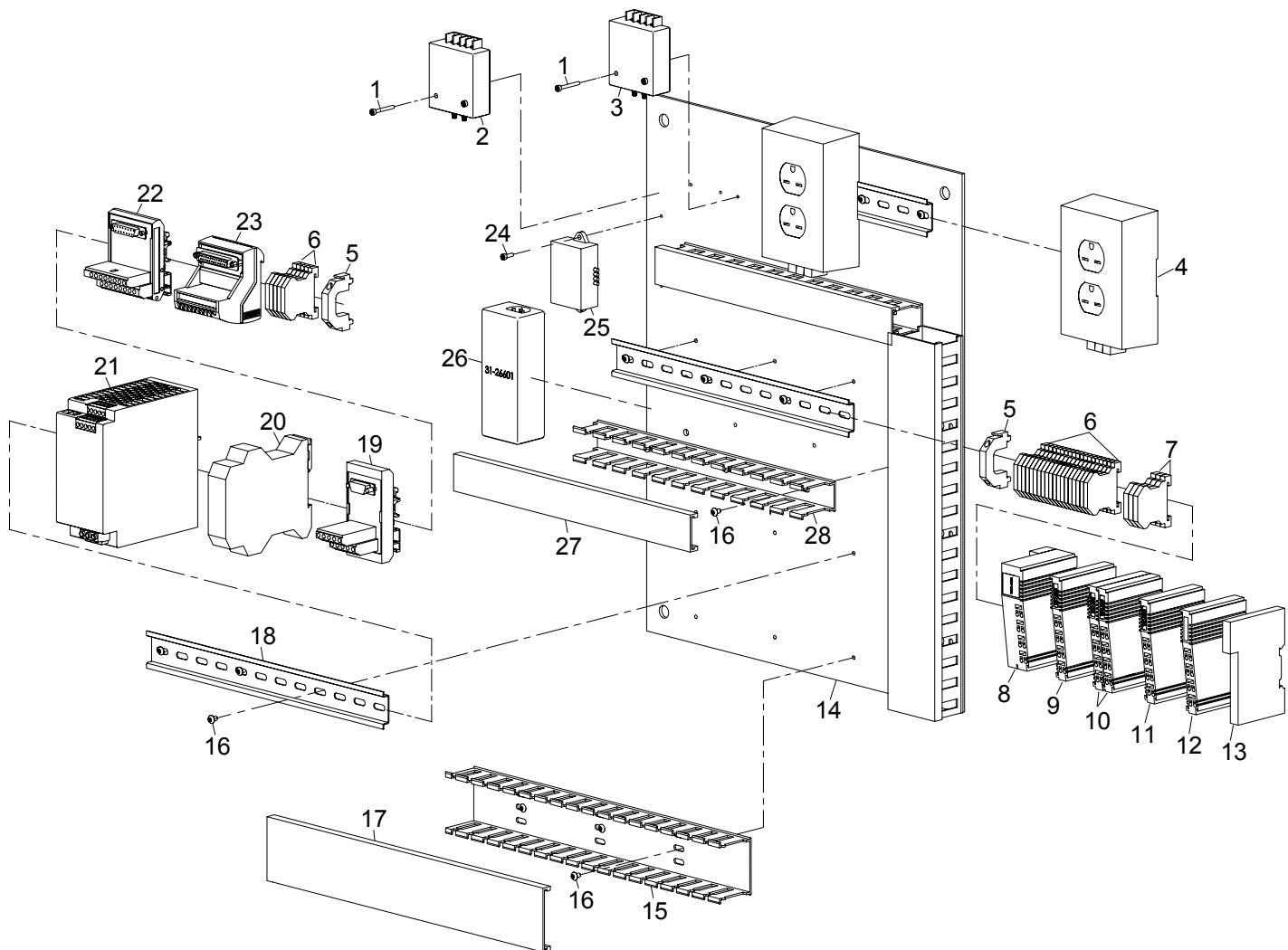
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Raptor Input/Output Panel

68-26561-PA

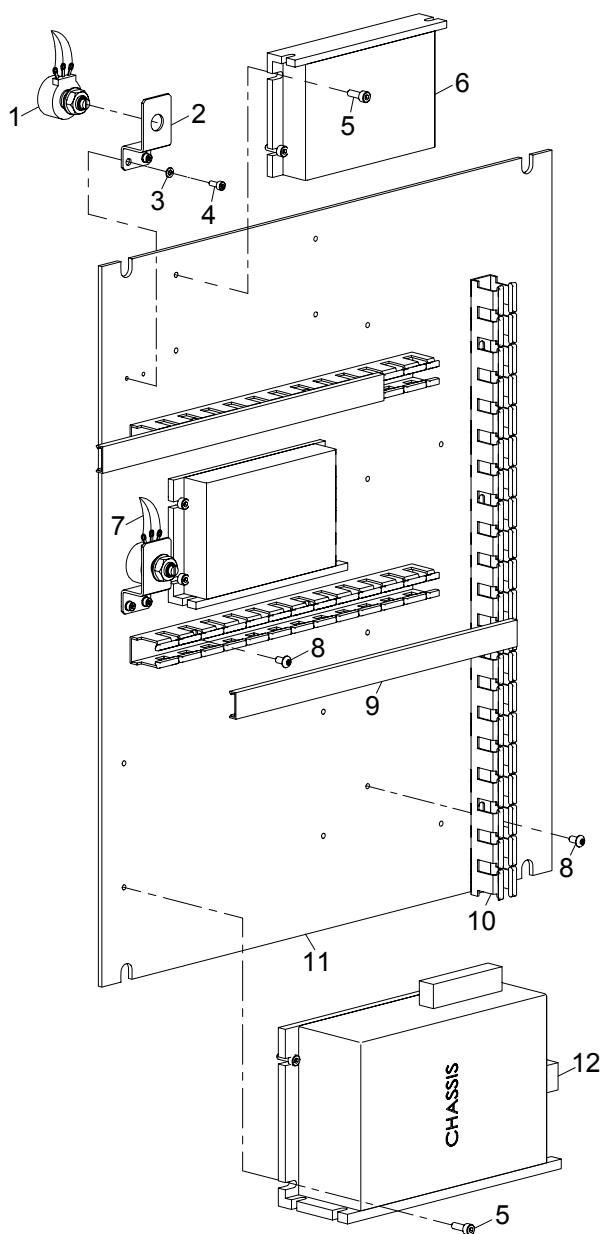
| Item | Part No. | Description | Qty. |
|------|------------|-----------------------------|------|
| 1 | 335-M3-25 | Screw, Skt. Hd. M3-.5x10 | 4 |
| 2 | 31-26504 | Pressure TXMTR 0-20in | 1 |
| 3 | 31-26503 | Pressure TXMTR 0-100in | 1 |
| 4 | 31-27220 | Power Outlet Din Rail Mount | 2 |
| 5 | 31-26227 | End Anchor | 2 |
| 6 | 31-26384 | Terminal Block | 24 |
| 7 | 31-26405 | Ground Terminal Block | 3 |
| 8 | 31-26366 | TSIO-1001 Slice I/O | 1 |
| 9 | 31-26367 | TSIO-2008 Slice 8 Dig | 1 |
| 10 | 31-26379 | TSIO-5001 Slice Contact | 2 |
| 11 | 31-26369 | TSIO-7002 Slice Analog | 1 |
| 12 | 31-26502 | TSIO-6006 Analog Input | 1 |
| 13 | 31-26366-1 | TSIO-1001 Slice I/O | 1 |

| Item | Part No. | Description | Qty. |
|------|-------------|------------------------------|------|
| 14 | 54-26270-PA | Panel A, Raptor Enclosure | 1 |
| 15 | 67-27151 | Wireway 2" | 2 |
| 16 | 333-M4-6 | Screw, Skt. Btn. Hd. M4-.7x6 | 21 |
| 17 | 70-26005 | 2" Duct Cover | 2 |
| 18 | 31-00739 | Terminal Mount | 3 |
| 19 | 31-26373 | DB9 Interface Terminal Block | 1 |
| 20 | 31-26381 | STI SR101A Safety | 1 |
| 21 | 31-26791 | 10A 24VDC Din Power | 1 |
| 22 | 31-26380 | DB15 Female Interface | 1 |
| 23 | 31-26696 | DB25 Female Screw Terminal | 1 |
| 24 | 335-M3-10 | Screw, Skt. Hd. M3-.5x10 | 2 |
| 25 | 31-27140-2 | Step Down Converter, 24VDC | 1 |
| 26 | 31-26601 | Power Over Ethernet Inj. | 1 |
| 27 | 67-02634 | Conduit Top 1" | 2ft |
| 28 | 70-26001 | Duct, Wiring | 2ft |



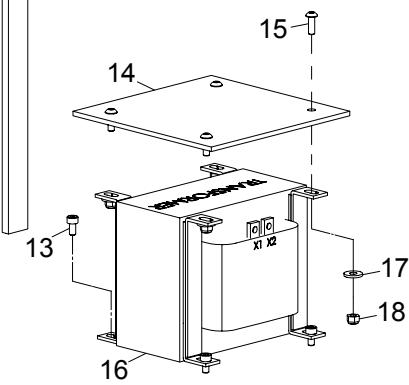
Raptor Panel, Resealer

68-26561-PB



| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|-------------|--------------------------------|------|
| 1 | 31-27290 | Resealer Takeoff Wiring | 1 |
| 2 | 54-28713 | Poentiometer Mount | 2 |
| 3 | 402-M3 | Washer, Lock M3 | 6 |
| 4 | 335-M3-8 | Screw, Skt. Hd. M3-.5x25 | 2 |
| 5 | 335-M4-12 | Screw, Skt. Hd. M4-.7x12 | 12 |
| 6 | 31-27231 | Motor Drive 48 VDC/6A | 2 |
| 7 | 31-27289 | Resealer Gantry Wiring | 1 |
| 8 | 333-M4-8 | Screw, Skt. Btn. Hd. M4-.7x8 | 4 |
| 9 | 70-26058 | Cover, Wiring Duct | 3ft |
| 10 | 70-26057 | Duct, Wiring | 3ft |
| 11 | 54-28270-PB | Panel B, Raptor Enclosure | 1 |
| 12 | 31-27244 | Power Supply 2 Axis/48VDC | 1 |
| 13* | 335-M4-8 | Screw, Skt. Hd. M4-.7x8 | 8 |
| 14* | 54-28766 | Cover, Transparent | 1 |
| 15* | 333-M4-12 | Screw, Skt. Btn. Hd. M4-.7x124 | |
| 16* | 31-27243 | Transformer, 220-38 VAC | 1 |
| 17* | 410-M4 | Washer, Flt M4 | 4 |
| 18* | 211-M4 | Nut, Metric Elastic M-4 | 4 |

*Mounted to Cabinet Enclosure(68-26561)



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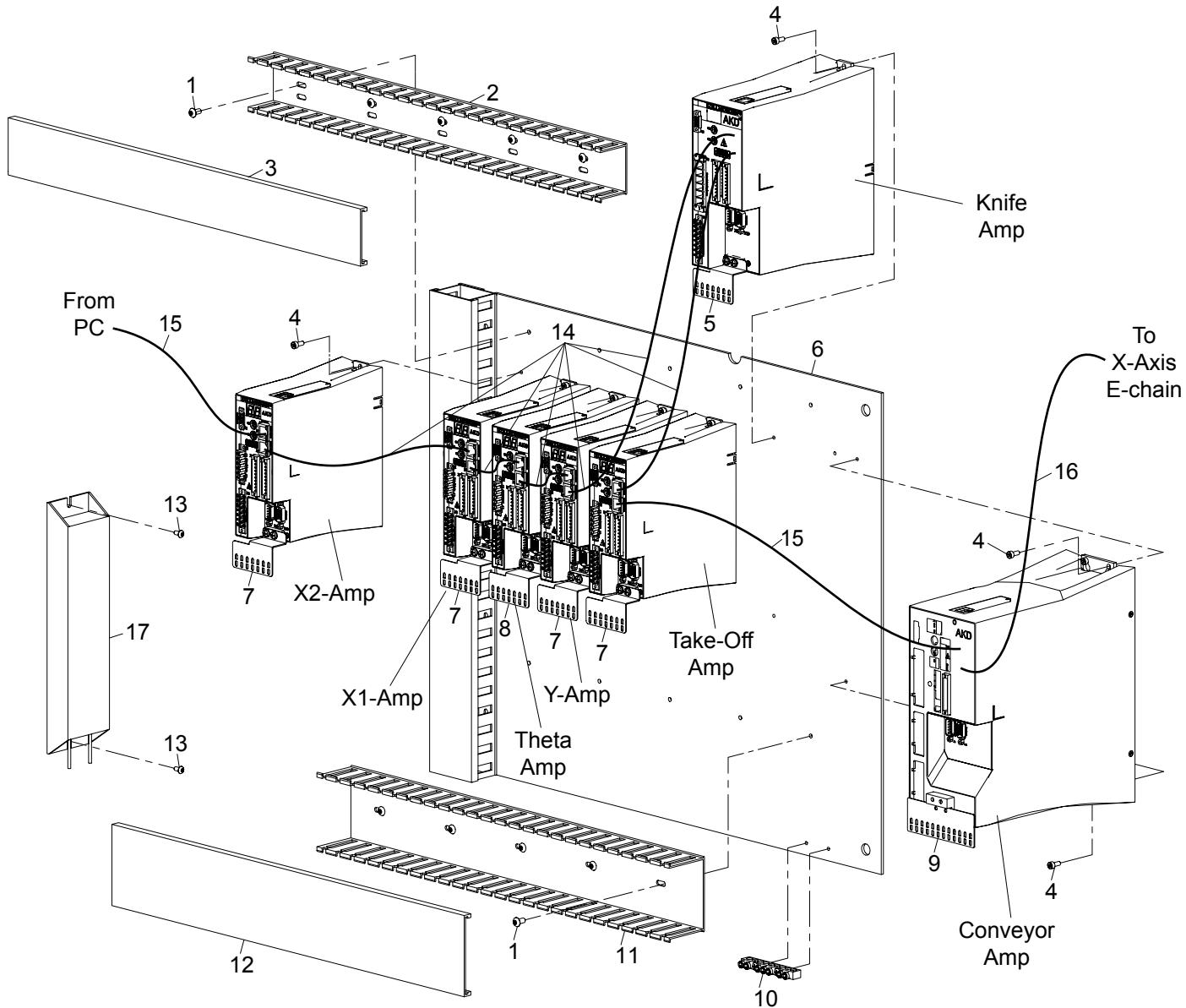
Raptor Amplifier Panel

68-26561-PC

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|-------------|---------------------------|------|
| 1 | 333-M5-10 | Screw, Btn. Hd M5-.8x10 | 15 |
| 2 | 67-27151 | Wireway 2" | 4ft |
| 3 | 70-26005 | 2" Duct Cover | 4ft |
| 4 | 335-M4-10 | Screw, Skt. Hd. M4-.7x10 | 15 |
| 5 | 31-27170 | Raptor Knife Amp | 1 |
| 6 | 54-28270-PC | Panel C, Raptor Enclosure | 1 |
| 7 | 31-27172 | Amplifier 6A, Raptor | 3 |
| 8 | 31-27171 | Amplifier 3A, Raptor | 2 |
| 9 | 31-27175 | Amplifier 24A, Raptor | 1 |

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|--------------|------------------------------|------|
| 10 | 31-27059 | Ground Bar Kit | 1 |
| 11 | 67-27152 | Duct, 3" | 2ft |
| 12 | 67-26112 | Duct Cover, 3" | 2ft |
| 13 | 333-M4-8 | Screw, Skt. Btn. Hd. M4-.7x8 | 2 |
| 14 | 31-26363-0.2 | Synqnet Cable 0.2M | 5 |
| 15 | 31-26363-0.5 | Synqnet Cable 0.5M | 2 |
| 16 | 31-26363-3 | Synqnet Cable 3M | 1 |
| 17* | 31-27195-1 | Regen Resistor, 400W | 1 |

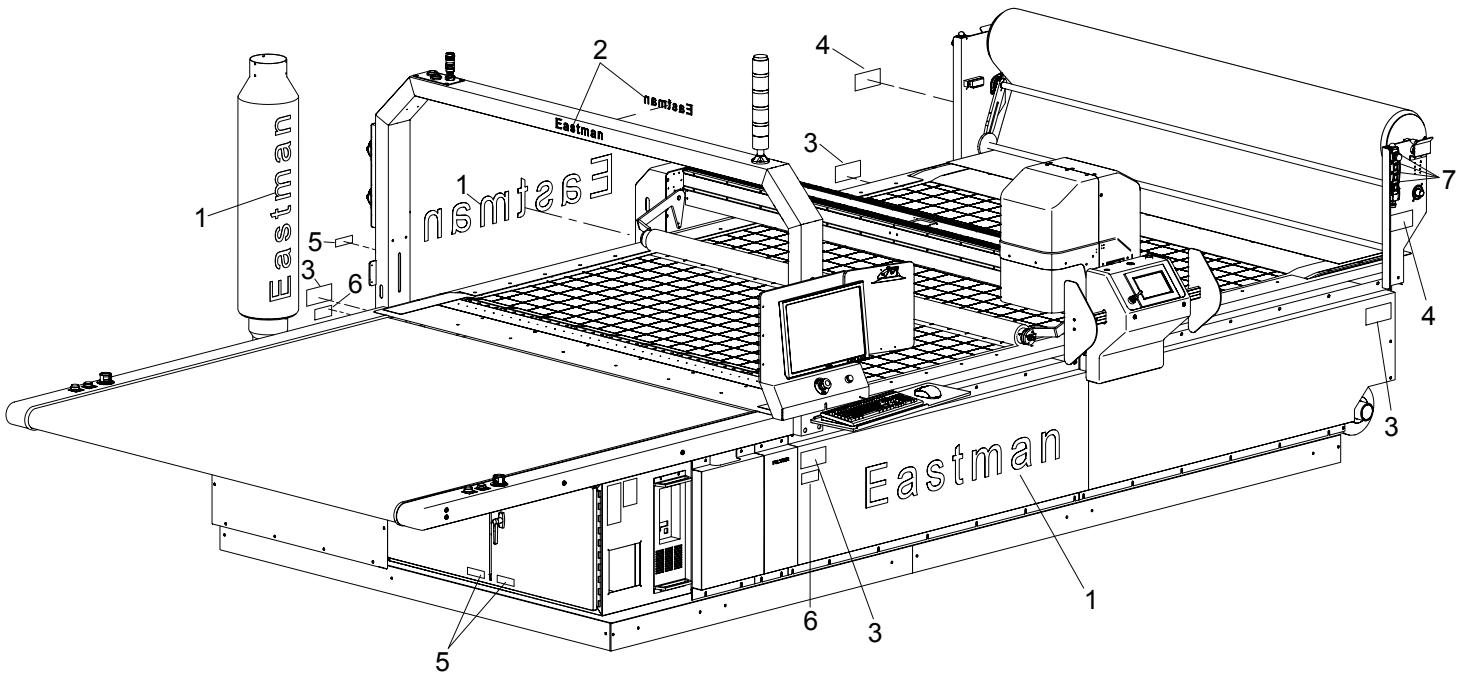
*Mounted to Cabinet Enclosure(68-26561)



Raptor

Label Locations

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|-------------|------------------------------|------|
| 1 | 91-26004 | Decal, Large Eastman | 3 |
| 2 | 91-26003 | Decal, Medium Eastman | 2 |
| 3 | 91-26073-6 | Decal, Gaurd Removal Large | 4 |
| 4 | 91-26073-11 | Decal, Entanglement Hazard | 2 |
| 5 | 91-26073-2 | Decal, Hazard Voltage | 3 |
| 6 | 91-26073-9 | Decal, Moving Parts | 2 |
| 7 | 91-26117 | Decal Sheet, Plastic Overlay | 2 |

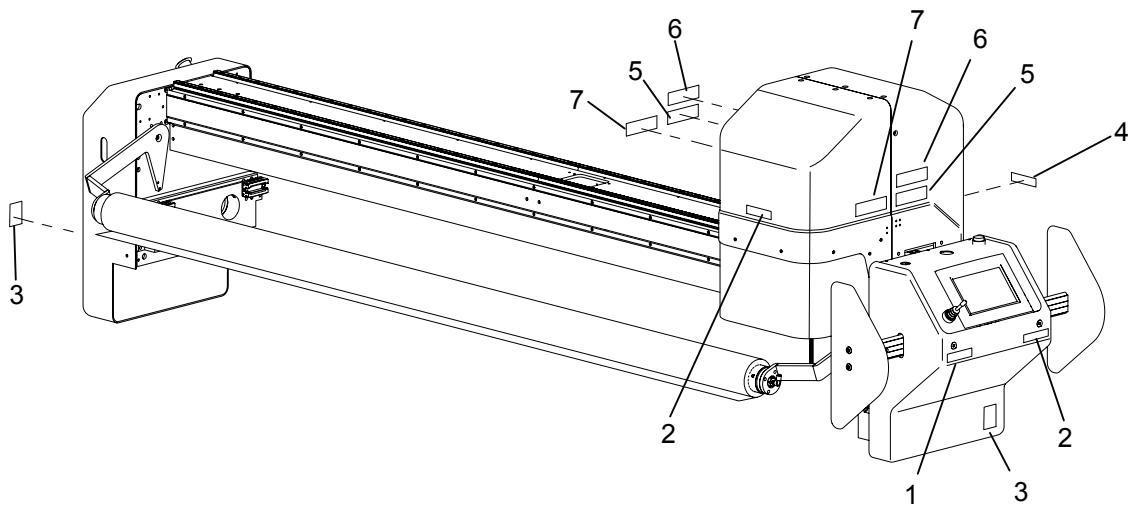


Eastman®

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Raptor Gantry

Label Locations



| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|-------------|---------------------------|------|
| 1 | 91-26002 | Decal, Small Eastman | 1 |
| 2 | 91-26099 | Decal, Raptor Logo (Blue) | 2 |
| 3 | 91-26073-5 | Decal, Guard Removal Med. | 2 |
| 4 | 91-26073-2 | Decal, Hazard Voltage | 1 |
| 5 | 91-26073-10 | Decal, Pinch Point | 2 |
| 6 | 91-26073-3 | Decal, Blade Hazard | 2 |
| 7 | 91-26073-4 | Decal, Guard Removal Sm. | 2 |

Service Record

Machine Serial No.: _____

Machine Voltage: _____

Date of Purchase: _____

| Date | Type of Service Performed |
|-------------|----------------------------------|
| | |

Eastman®

Over a Century of Cutting Expertise

————— Notes ————

— Notes —

Eastman®

Over a Century of Cutting Expertise

TECHNICAL DATA

Eastman® Raptor

Patent Pending

Raptor

| | |
|----------------------------------|----------------------------------|
| Maximum Gantry Speed | 40 in/sec (102 cm/sec) |
| Maximum Conveyor Speed | 8 in/sec (20 cm/sec) |
| Cut Accuracy * | +/- 0.010 in (0.025 cm) |
| Gantry Weight | 260 lbs (118 kg) |
| Machine Voltage | 208/220/380/400/415/440/575 VAC, |
| 3 Phase | 50/60 Hz |
| Blower Operating Voltage | 220/440 VAC, 3 Phase, 60Hz |
| Minimum Operating Pressure | 75 psi |
| Volume of Air Service | 30 SCFM |

* Relative to type and quality of fabric, cutting speed, pulling mode operational settings.

* Conveyor pull accuracy to +/- 1/16" (+/- 1.6 mm)

| Machine Size Long | Machine Size Wide | Working Width | Table Width (including Rack and Rail) | Overall Machine Width | Cutting Window Width | Cutting Window Length | Operational Cutting Height | Reciprocalation Speed RPM |
|-------------------|-------------------|---------------|---------------------------------------|-----------------------|----------------------|-----------------------|----------------------------|---------------------------|
| 228" 579cm | 110" 279cm | 79" 200cm | 96" 244cm | 112" 284cm | 79" 200cm | 98" 249cm | 3.0- 7.5cm | 5000 RPM |

Limited Warranty. Eastman warrants to the buyer that the Raptor shall be free from defects in materials or workmanship for a period of 180 days commencing on the date of invoice. Any goods or parts claimed by the buyer to be defective must be returned to Eastman, freight charges prepaid, within the 180-day warranty period. If Eastman determines that the goods or parts are defective in materials or workmanship, Eastman's sole obligation under this warranty shall be, at Eastman's sole option, to repair or replace the defective goods or parts or to provide the buyer a credit equal to the portion of the purchase price allocable to the defective goods or parts. This warranty shall not apply if defects are caused by product misuse or neglect, if the machine has been altered or modified by the buyer, or if other than genuine Eastman belts, emery wheels, knives or parts are used in the machine. THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THIS PURCHASE. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Limitation of Liability. Eastman's liability to the buyer, and the buyer's remedies from Eastman, whether in contract, negligence, tort, under any warranty or otherwise, shall be limited to the remedies provided in the foregoing Limited Warranty. In no event shall Eastman have any responsibility or liability to the buyer for (a) any special, indirect, incidental, or consequential damages, including, but not limited to, loss of use, revenue, or profit, even if Eastman has been advised of the possibility of such damages, or (b) any claim against the buyer by any third party. The price stated for the product sold is a consideration for limiting Eastman's liability.