



# WM-Ai-P Preventive Maintenance Guide

The following information is provided by Rice Lake Weighing Systems to assist Authorized Service Offices performing preventive maintenance on Rice Lake Weighing Systems Wrapping and weighing equipment in Costco Wholesale Warehouses

## WM-Ai-P Preventative Maintenance Guide

Inspection Date:	Overall Condition:    Good    /    Fair    /    Poor
Service Company:	Serial Number:
Technician(s):	Costco Store Number:
Cycle Count:	Meat Manager Signature:

This WM-Ai Preventative Maintenance Guide is divided into three intervals - **DAILY, 6-MONTH, YEARLY**. The DAILY maintenance is generally the responsibility of the end-user. It is recommended that the servicing technician review these daily maintenance checks with the appropriate manager, especially if it is evident these checks are not being performed properly.

Pages 1-11 should be printed, filled, scanned and returned to RLWS along with photographic documentation of all issues such as: user abuse, water damage/corrosion, premature failures, etc.).

\*\* Allow 2-3 hours for a 6-MONTH inspection and 4-6 hours for a YEARLY inspection. \*\*

	Sections		Sections		Sections
1	LIFT HEAD	10	FILM TRANSPORT/INSERTION	19	CAMERA & LIGHTING
2	WRAPPING: FRONT / REAR	11	LIFT DRIVE	20	TOUCHSCREEN DISPLAY
3	WRAPPING: LEFT / RIGHT	12	LIFT SIZE CHANGE	21	KEYBOARD ASSEMBLY
4	SEAL HEATERS	13	FILM ROLL HOLDERS	22	SAFETY SWITCHES
5	DISCHARGE PUSHER	14	FILM FEEDER MOVEMENT	23	FILE BACK-UP
6	INFEED	15	LABEL APPLICATOR - MAIN	24	FIRMWARE
7	CENTERING UNIT	16	LABEL APPLICATOR - POP	25	ADJUSTMENTS, PARTS REPLACED
8	SCALE	17	PRINTER - MAIN	26	SAMPLE LABELS
9	FILM FEEDER ASSEMBLIES	18	PRINTER - POP	27	REFERENCE DRAWINGS

## WM-Ai-P Preventative Maintenance Guide

Required materials:

- Grease: White, Yellow, and Black (see table below for specifications)
- Disposable brushes, small or cotton swabs (for grease application)
- Wrench set, metric
- Socket set, metric (optional)
- Screwdrivers, assorted
- Allen wrench set, metric
- Sandpaper (100 grit)
- Clean, lint-free rags
- Compressed Air / Vacuum
- Isopropyl Alcohol
- Adhesive remover (for labels)
- Thermal head cleaning kit
- Weight set (30 lbs)
- Key, interlock bypass, 2 pieces (p/n 95540)
- Machinist Ruler
- USB flash drive (8 GB or smaller, FAT32 format, USB 3.0)

Lubrication for WM-Ai

Color of grease	RLWS Part Number	Description	Industry Reference Number
(Y) Yellow	77932	General Purpose Lithium Grease (323916) [Shell Alvania Grease "No2"]	Sta-Lube SL3310
(W) White	77933	White Food-Grade Grease (380059) [Sumico White Alcom Grease "No2"]	CRC SL35600
(B) Black	77934	Multi-Purpose Grease (371219) [Daizo Nichimori "L-210"]	Sta-Lube SL3330

The parts listed in the Check Points and Replacement Parts columns on pages 3~10 are identified by a drawing number and part number. The drawing number refers to the parts drawings on pages 12~35. For example, in section 4: Seal Heaters on page 4, the orange seal heater rollers are identified as #8, p/n 174923. This refers to #8 on the Seal Heaters drawing on page 15.

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	Section	Check Points	Comments	Tool/Grease/ Program	Replacement Parts	Check			✓	
						D	6 mo	Y		
1	LIFT HEAD	Loose Screws	Tighten screws- Fingers and Handle				X	X		
		Cleaning	Clean the Lift Head Assembly	Soap & Water		X	X	X		
		Surface friction of Lift Heads -Center & Front Left (#7), Front Right (#8), Left (#9), Right (#10), Rear Center (#14), Rear Left (#15), Rear Right (#16),	If the Heads are worn smooth (polished) roughen with sandpaper. Replace worn out or damaged heads or finger assemblies.	Sandpaper (100 grit)	125697 (#7) 171831 (#8) 125698 (#9) 125699 (#10) 171832 (#14) 171833 (#15) 171834 (#16)			X	X	
		Lift Heads Movement - See above	Replace broken assemblies that are too weak to operate and spring back.		See above			X	X	
		Latch Pin Assembly -Spring (#6)	Replace broken or weak compression spring.		172335 (#6)			X	X	
		Lubrication	Grease all springs, as needed. After working in the grease, wipe off excess.	White Grease				X	X	
		2	WRAPPING: FRONT/REAR	Loose Screws	Tighten screws as needed. Listen for odd noises.	Adjust Menu, Unit Action, 12: Back Plate				
Condition of Rear Wrap Plate	Clean any food, dirt, oil, or label adhesive. If worn smooth (polished) roughen with sandpaper.			Soap & Water (Daily) Adhesive Remover Sandpaper (#100)		X	X	X		
Plastic bushings - Leading Roller Mounting Brackets (#2) - Square Shaft Mounts (#4)	Replace bushings if worn out. Note: Roller brackets can be swapped right / left side.				172528 (#2) 172530 (#4)					X
Wrap Plate and Roller Shaft alignment	Roller Shaft should be parallel with the fixed Rollers at the exit. (Loosen and adjust Shaft Holders [#2] – page 11)			#2 Phillips driver						X
Roller Shaft condition - Stepped Roller Shaft (#3)	Roller Shaft must be straight - not bent. Replace if necessary.				172529 (#3)			X	X	
Roller Shaft movement - Shaft Holder (#2)	Roller Shaft must turn freely. Apply grease at plastic mounting brackets - 2 places. Swap left & right brackets or replace worn plastic brackets as needed.			White grease	172528 (#2)			X	X	
Square mounting shafts	Clean debris and old grease, apply new grease			Black grease						X
Photo sensor - Home Position, B102 (#503)	Clean as needed. Sensor is located at the rear right of the Rear Wrap plate.			Compressed Air	171837 (#503)					X

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	Section	Check Points	Comments	Tool/Grease/ Program	Replacement Parts	Check			✓	
						D	6 mo	Y		
3	WRAPPING: LEFT/RIGHT	Loose screws	Tighten screws as needed. Listen for odd noises.	Adjust Menu, Unit Action, 11: Side Plate				X		
		Linear Bushings	Clean debris and old grease, apply new grease	Yellow grease			X	X		
		Linear Bushings movement - Linear Bearing Block, front (#1) - Linear Bearing, rear (#2)	Replace if worn out - excessive resistance.		172514 (#1) 157900 (#2)				X	
		Photo sensor - Home Position, B101 (#503)	Clean as needed. Sensor is located at the rear of the Left Wrap plate.	Compressed Air	171837 (#503)				X	
		Condition of Side Wrap Plates	Clean any food, dirt, oil, or label adhesive. If worn smooth (polished) roughen with sandpaper.	Soap & Water (Daily) Adhesive Remover Sandpaper (#100)		X	X	X		
4	SEAL HEATERS	Heater Guard solenoid	Check smooth operation					X		
		Heater Guard photo sensor	Clean	Compressed Air				X		
		Sealing Heater Rollers - cleaning	Caution <b>rollers are hot</b> . Allow to cool down before cleaning. Remove burnt on film (black) with a Degreaser (ex. Totally Awesome Orange). <b>DO NOT</b> use abrasive cleaning tools that will damage the roller surface.	Damp cloth (Daily) Degreaser (PM)		X	X	X		
		Sealing Heater Rollers - movement - Roller Assy (#8) - Bushing (#22)	Clean or replace		174923 (#8) 153654 (#22)				X	
		Temperature adjustment	Confirm higher and lower temperature adjustment is possible						X	
5	DISCHARGE PUSHER	Loose screws	Tighten screws as needed. Listen for odd noises.	Adjust Menu, Unit Action, 13: Pusher				X		
		Drive Belts - tension	Right and Left side belts must be <b>balanced</b>					X		
		Square mounting shafts	Clean debris and old grease, apply new grease	Black grease					X	
		Photo sensor - Home Position, B100 (#503)	Clean as needed. Sensor is located at the rear right of the Discharge Pusher.	Compressed Air	171837 (#503)				X	
		Discharge Pusher clearance - home position	Confirm the Discharge Pusher does not contact drive gears, etc. at the home position. Listen for noise from contact.						X	
		Green tape - Green Grip Tape, Sheet (#999)	Replace if loose or peeling		172536 (#999)			X	X	
		Discharge Pusher - cleaning	Remove labels, food, etc.			X	X	X		

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	Section	Check Points	Comments	Tool/Grease/ Program	Replacement Parts	Check			✓	
						D	6 mo	Y		
6	INFEED	Loose screws	Tighten screws as needed. Listen for odd noises.	Adjust Menu, Unit Action, 4: Feed				X		
		Drive Chains - Chain (#23)	Check for damage, cracks, etc.		171835 (#38)		X	X		
		Centering Shaft Sprockets - Sprocket Assy (#5)	Check for square, should not be rounded or bent.		172499 (#5)					
		Infeed Rail Drawer Slides	Confirm easy in/out movement. Clean debris and old grease, apply new grease.	Yellow grease					X	
		Photo sensor – Home position [front, left] (#502)	Clean. Check for any contact damage.	Compressed Air	104239 (#502)				X	
		Thumb screws	Confirm the thumb screw shafts are positioned correctly and locking jam nuts are tight.	10mm wrench	47159 (#22) 125462 (M6 nut)		X	X		
7	CENTERING	Centering Shaft	Listen for odd noises. Clean debris and old grease, apply new grease.	Yellow grease			X	X		
		Green Belt assy	Remove, disassemble, clean. Ensure smooth movement.				X	X		
		Blue Belt	Clean with soap and water.			X	X	X		
8	SCALE	Check zero and calibration		30 lb. test weights				X		
		Four corner check		5 lb. test weight				X		
		Weighing	Correct weighing	1 lb. test weight		X	X	X		
		Weigh Spider (#14)	Clean Debris		189309 (#14)					
		Blue Scale Platter - Platter (#15)	No bleach. Replace if color has changed or surface is worn smooth.	Soap & Water (Daily)	170292 (#15)	X	X	X		
		Confirm Label data matches Display							X	
		Check level							X	
9	FILM FEEDER ASSEMBLIES	White Film Feed belts - White Belt (#9)	Check for broken wires, yellowing, worn surface, or other damage	Inspect, clean (alcohol) and test	171838 (#9)			X		
		Green Film Feed belts - Long Green Belt (#10)	Check for polished surface, slipping, meandering, or other damage	Inspect, clean (alcohol) and test	171839 (#10)			X		
		Film Centering: Upper and Lower rolls	Adjust centering. Verify consistency.	Adjust Menu, Wrapping Machine, Film tab					X	
		Film pieces on belts	Remove pieces. Clean belts with soap and water if needed. DO NOT use alcohol.	Inspection and test wrapping			X	X		
		Film Clamps - 6 places	Ensure all clamps operate properly and provide sufficient grip strength.	Adjust Menu, Unit Action, 17: Front Clamp & 18: Rear Clamp					X	

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	Section	Check Points	Comments	Tool/Grease/ Program	Replacement Parts	Check			✓
						D	6 mo	Y	
9	FILM FEEDER ASSEMBLIES (Cont.)	Film Detect & Film Over "Claw" Sensor - Spring Plate, Film Detect (#33) - Coil Spring, Film Detect (34) - Spring Plate, Film Over (#29) - Film Detect Photo Sensor (#502) - Film Over Photo Sensor (#501)	Verify sensor operation. Remove any film pieces or build up. If worn smooth (polished) roughen with sandpaper.	Compressed Air. Sand Paper (100 grit)	175364 (#33) 175369 [F] (#34) 175365 [R] (#34) 175367 (#29) 171837 (#502) 104239 (#501)		X	X	
10	FILM TRANSPORT (INSERTION PLATE & CUTTER)	Stop position for Insertion Unit	Verify clearance.	Adjust Menu, Unit Action, 24: Film Change				X	
		One-Way Roller (clear plastic) - Roller Clutch Assy, 1-Groove (#5) - Roller Clutch Assy, 5-Groove (#6)	Verify one-way, smooth movement. Check for scratches. Remove film pieces and clean with alcohol.	Isopropyl Alcohol	172563 (#5) 172565 (#6)		X	X	
		Sensors - Cutter, home (#503) - Insertion, home (#503) - Insertion, open [green] (#505, #506) - Magnet [green] (#504)	Clean. Verify operation. Cutter (home), Insertion Plate (home), and Insertion Plate (open).	Compressed Air. Adjust Menu, Unit Action, 1: Sensor Check	104239 (#503) 175361 (#505) 175362 (#506) 105979 (#504)			X	
		Cutter Blade - Blade (#4)	Check for corrosion or rust	Visual inspection	176682 (#4)		X	X	
		Cutter Blade Guard - Blade Guards (#1) [Outer] (#2) [Inner] - Leaf Spring (#5) - Coil Spring (#11) [Front] (#12) [Rear]	Check movement. Clean film pieces. Check for cracks.	Visual inspection	178891 (#1) 178892 (#2) 178893 (#5) 172560 (#11) 172561 (#12)		X	X	
		Cutter Blade Solenoids	Check movement. Check return spring operation.	Adjust Menu, Unit Action, 15: Cutter				X	
		Feeder movement home position sensor - Photo Sensor	Clean as needed. Sensor is located at the lower right side of the Film Feeder assy.	Compressed Air	104239			X	
11	LIFT DRIVE	Lower limit photo sensor. - Photo Sensor (#502)	Clean. Verify operation.	Compressed Air	157856 (#502)		X	X	
		Up / Down operation	Listen for odd noises during operation	Adjust Menu, Unit Action, 2: Lift				X	
		Linear Bushings - Linear Bushing Bearing (#11)	Clean debris and old grease, apply new grease.	Yellow grease	157900 (#11)		X	X	
12	LIFT SIZE CHANGE	Lift Size Change movement	Listen for odd noises during operation	Adjust Menu, Unit Action, 3: Lift Change				X	
		Lift Size Change photo sensor - Photo Sensor, B214 (#501)	Clean off any debris	Compressed Air	104239 (#501)			X	

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	Section	Check Points	Comments	Tool/Grease/ Program	Replacement Parts	Check			✓
						D	6 mo	Y	
13	FILM ROLL HOLDERS	Film Roll Holding Spikes	Check if the spikes hold the rolls	2.5mm Allen wrench			X	X	
		Film position	Shaft end hub --> front edge of film is even blade or farther bac				X	X	
		Film Roll Brake - Brake Assy (#27)	Confirm film roll stops and does not over turn. Stop position, full roll: 10:00-11:00	Adjust Menu, Wrapping Machine, Roll tab	172604 (#27)		X	X	
14	FILM FEEDER MOVEMENT	Movement (Front & Rear Feeders)	Confirm smooth movement. Listen for odd noises during operation	Adjust Menu, Unit Action, 9: Front Feeder Move 10: Rear Feeder Move				X	
		Belt tension (2 black drive belts)	Verify belt tension and condition					X	
		Drive Shafts	Clean debris and old grease, apply new grease.	Yellow grease				X	
		Home & Limit Photo Sensors (4 places) - Front Limit (#502) - Feeder Position, 3 places (#503)		Compressed Air	171837 (#502) 104239 (#503)			X	
		Main Hex Drive Shaft	Clean debris and old grease, apply new grease.	Black grease				X	
15	LABEL APPLICATOR - MAIN	Movement: three directions - Photo Sensors, 8 places (#501)	No unusual sounds. Clean with compressed air. Confirm beep in Adjust menu.	Compressed air. Adjust Menu, Unit Action, Label App. Tab, 1: Appl Control Sensor	104239 (#501)			X	
		Applicator End (Spring loaded assy)	Push the Applicator up. Verify free movement and vibration/bounce when lowered is not excessive.	White grease				X	
		Fan suction - Fan Suction Assy (#608)	Verify the Applicator Suction Fan can hold a 0.015 lb. tray.		172624 (#608)			X	
		Applicator Shafts: Left/Right (2), Back/Front (2), Up/Down (1)	Check for rust. Clean debris and old grease, apply new grease.	Yellow grease			X	X	
		Applicator Shoe (black) (#59)	Replace if worn or cracked		171864 (#59)		X	X	
		Label Detection sensor (inside applicator shoe) (#607)	Clean dust from sensor	Cotton swab	172623 (#607)	X	X	X	

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	Section	Check Points	Comments	Tool/Grease/ Program	Replacement Parts	Check			✓
						D	6 mo	Y	
16	LABEL APPLICATOR - POP	Movement: three directions - Photo Sensors: 5 places (#509), 1 place (#510)	No unusual sounds. Clean with compressed air. Confirm beep in Adjust menu.	Compressed air. Adjust Menu, Unit Action, Label App. Tab, 1: Appl Control Sensor	104239 (#509) 171837 (#510)			X	
		Applicator End (Spring loaded assy)	Push the Applicator up. Verify free movement and vibration/bounce when lowered is not excessive.	White grease				X	
		Fan suction - Fan Suction Assy (#606)	Verify the Applicator Suction Fan can hold a 0.015 lb. tray.		178215 (#606)			X	
		Applicator Shafts: Left/Right (2), Up/Down (1)	Check for rust. Clean debris and old grease, apply new grease.	Yellow grease			X	X	
		Applicator Shoe (black) (#44)	Replace if worn or cracked		178204 (#44)		X	X	
		Label Detection sensor (inside applicator shoe) (#605)	Clean dust from sensor	Cotton swab	178214 (#605)	X	X	X	
17	PRINTER - MAIN	Printing Quality - Print Head (#501)	Verify print is complete and legible. Clean print head.	Adjust Menu, Printer, Printer 1, Head tab, PRINT. Isopropyl alcohol	178188 (#501)		X	X	
		Label Feeding - Print Rollers (#42)	Check if printing expands or contracts. Check and clean 2 print rollers. Remove paper dust.	Adjust Menu, Printer, Printer 1, Head tab, PRINT. Label & Isopropyl alcohol	171873 (#42)			X	
		"Head Up" sensor - Sensor (#601) - Magnet (#502)	Verify sensor operation	Adjust Menu, Printer, Printer 1, Head tab, "Head Up"	172669 (#601) 105979 (#502)			X	
		Label Gap sensor - Gap Sensor Assy (#601) Peel sensor - Transmitter, Left Side (#503) - Receiver, Right Side (#504)	Check sensor readings are normal. Clean, calibrate, or replace sensors as needed.	Adjust Menu, Printer, Printer 1, Label Feed tab & Peel Sensor tab	172669 (#601) 171876 (#503) 171877 (#504)		X	X	
		Label Pickup Roller Table - Roller Table O-Rings (#2) - Roller Table O-Rings, End	Clean adhesive from rollers. Verify smooth turning		157891 (#2) 178190 [End]		X	X	
		Drive Gears	Clean debris and old grease, apply new grease. Examine gears for cracks or chips.	White grease				X	
		Magnet (home position) - Catch Magnet (#37)	Inspect catch magnet for wear. Verify magnet holds and printer drive gears mesh well at home position		172642 (#37)			X	

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	Section	Check Points	Comments	Tool/Grease/ Program	Replacement Parts	Check			✓
						D	6 mo	Y	
18	PRINTER - POP	Printing Quality - Print Head (#502)	Verify print is complete and legible. Clean print head.	Adjust Menu, Printer, Pop, Head tab, PRINT. Isopropyl alcohol	178188 (#502)		X	X	
		Label Feeding - Print Rollers (#32)	Check if printing expands or contracts. Check and clean 2 print rollers. Remove paper dust.	Adjust Menu, Printer, Pop, Head tab, PRINT. Label & Isopropyl alcohol	178218 (#32)			X	
		"Head Up" sensor - Sensor (#601) - Magnet (#503)	Verify sensor operation	Adjust Menu, Printer, Pop, Head tab, "Head Up"	178227 (#601) 105979 (#503)			X	
		Label Gap sensor - Gap Sensor Assy (#601) Peel sensor - Transmitter, Left Side (#505) - Receiver, Right Side (#504)	Check sensor readings are normal. Clean, calibrate, or replace sensors as needed.	Adjust Menu, Printer, Pop, Label Feed tab & Peel Sensor tab	178227 (#601) 171877 (#505) 171876 (#504)		X	X	
		Label Pickup Roller Table - Roller Table O-Rings (#2) - Roller Table O-Rings, End	Clean adhesive from rollers. Verify smooth turning		157891 (#2) 178190 [End]		X	X	
19	CAMERA & LIGHTING	Camera - P-1107 Camera Controller (#501) - CMOS Camera (#502)	Verify tray recognition. Place trays in four corners in operation mode. Calibrate as needed.	Adjust Menu, Camera	171865 (#501) 172626 (#502)			X	
		LED Lights - LED Assy, Left side (#503) - LED Assy, Right side (#504)	Confirm both LED lights are lit	Operation Mode	172627 (#503) 172628 (#504)			X	
		Camera and light lens cover	Clean clear plastic lens cover	Cloth		X	X	X	
20	TOUCH SCREEN DISPLAY	Contrast - LCD Display (#504) - P-1102 Display Control Bd (#501)	Verify brightness of the display. Replace Invertor or Display as needed.	Adjust Menu, Display Check	158278 (#504) 171882 (#501)			X	
		Touchscreen operation - Touch Panel (#503)	Confirm accuracy. Calibrate or replace as needed.	Adjust Menu, Touch Screen	171883 (#503)		X	X	
		Touchscreen cleaning	Clean touchscreen display	Cloth		X	X	X	
21	KEYBOARD ASSEMBLY	Keyboard - Keyboard Assy (#501)	Confirm all keys function and show as dark squares	Adjust Menu, Key Check	171884 (#501)			X	
		Keyboard Transparent cover - Cover (#999)	Clean keyboard cover. Replace as needed.	Cloth	98400 (#999)	X	X	X	
22	SWITCHES	Check eight (4) Door Safety Switches.						X	
		Check Emergency Stop.						X	

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	Section	Check Points	Comments	Tool/Grease/ Program	Replacement Parts	Check			✓
						D	6 mo	Y	
23	DATA BACKUP	Backup WM-Ai wrapper memory.	USB flash drive backup is the preferred method as this method captures more than the software backup.	Setup Menu, File Save/Load, USB > Scale tab and/or SLP-5 / Maintenance Utility			X	X	
24	FIRMWARE	Main Firmware:	Load firmware on a blank USB stick of 8 gig or less. Insert into the access hatch on the upper left side.  Reboot afterwards.	Adjust Menu, Download, Main tab "USB>MAIN (PRG+IMG)", USB Memory Folder, select file, Exec, Exec.					
		Sub Apps:	Load all sub apps except "Under Printer"; reboot after each.  Take a second backup once firmware upgrades have been completed.	Adjust Menu, Download, Sub App tab.					

### 25. Adjustments, Comments, Parts Required, etc.

Section	Inspection Items and Contents	Comments	Replacement Parts

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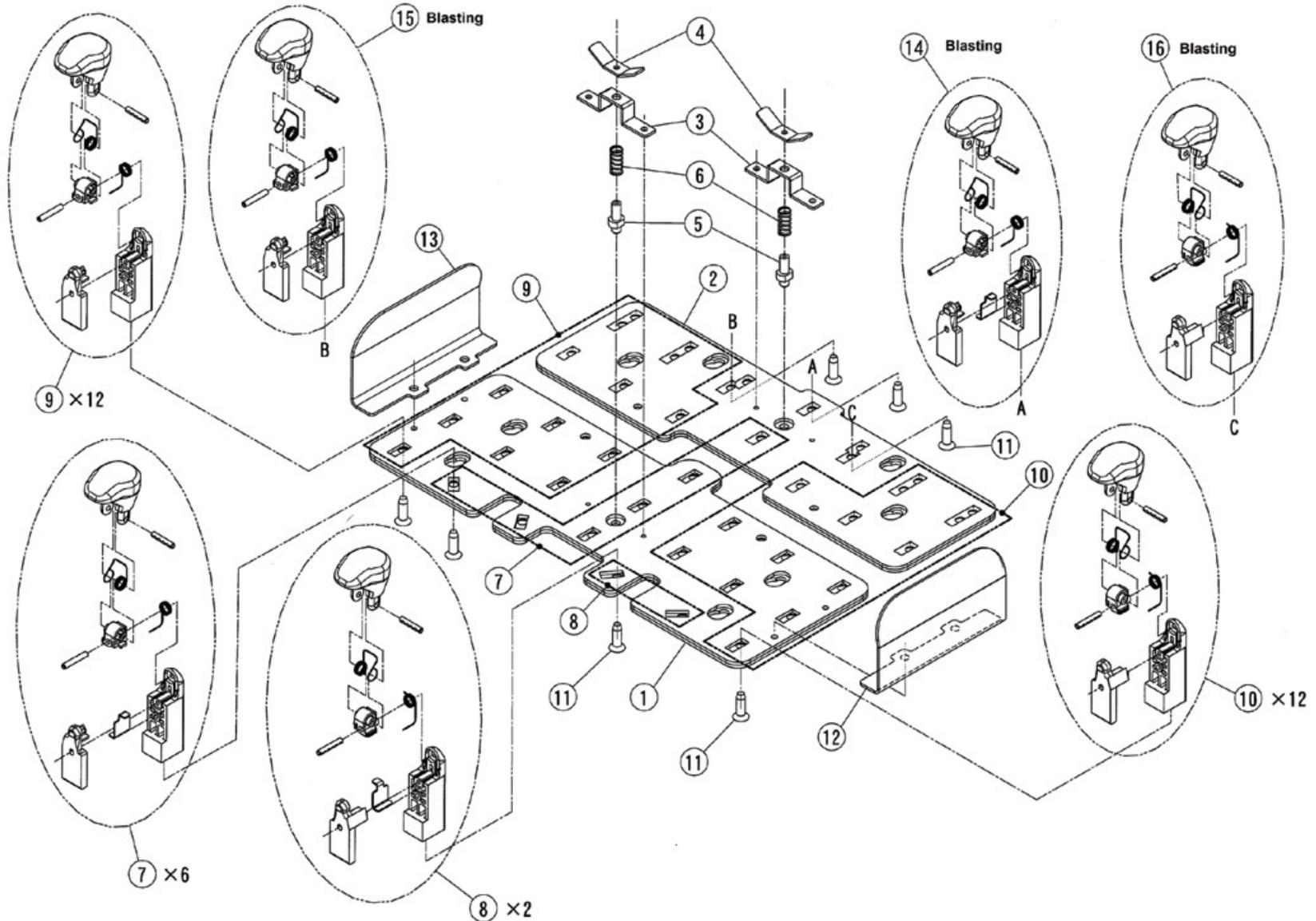
## 25. SAMPLE LABELS

[ SAMPLE LABELS ]

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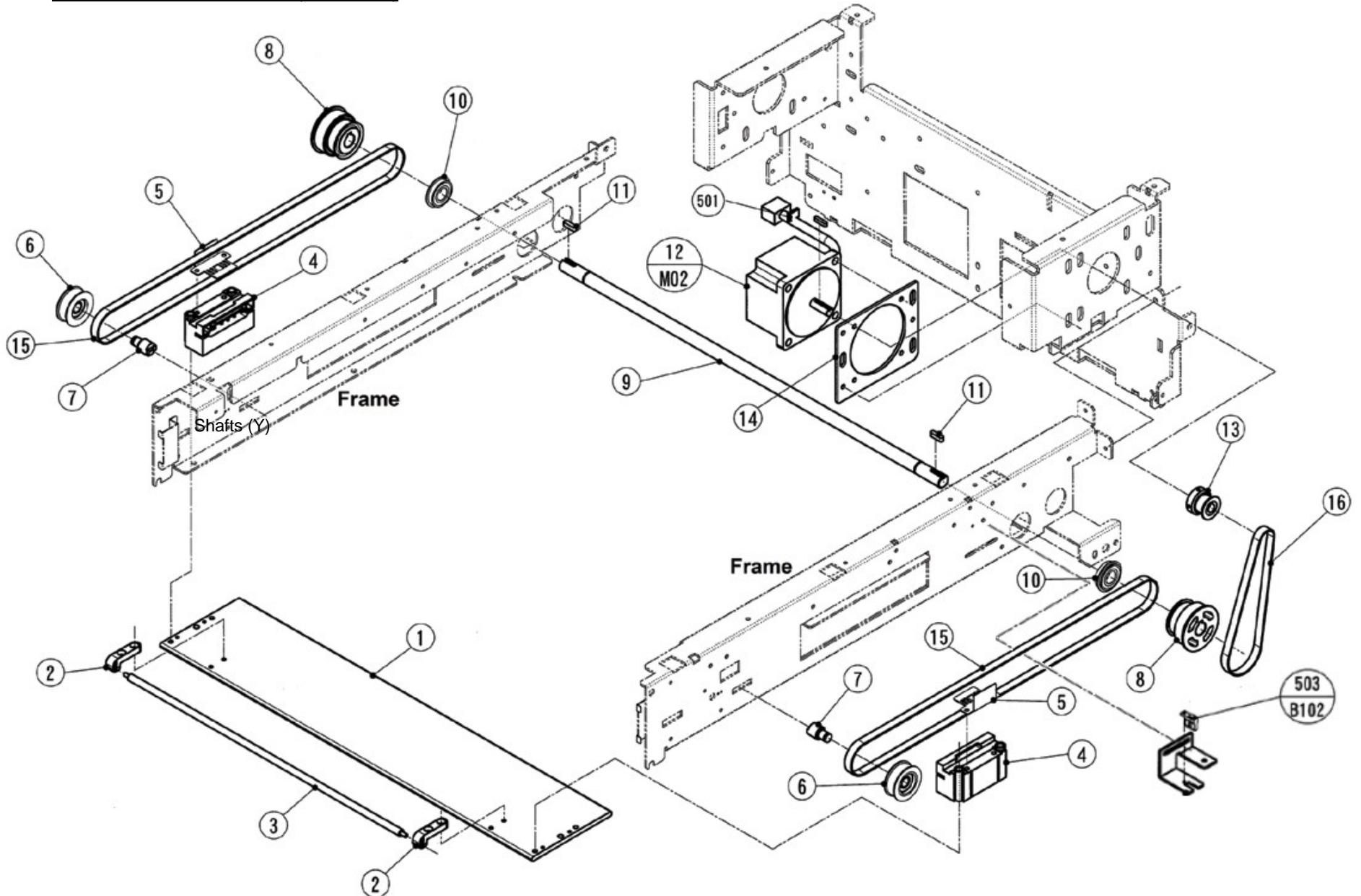
## 26. Reference Drawings

### LIFT HEAD ASSEMBLY (Section 1)



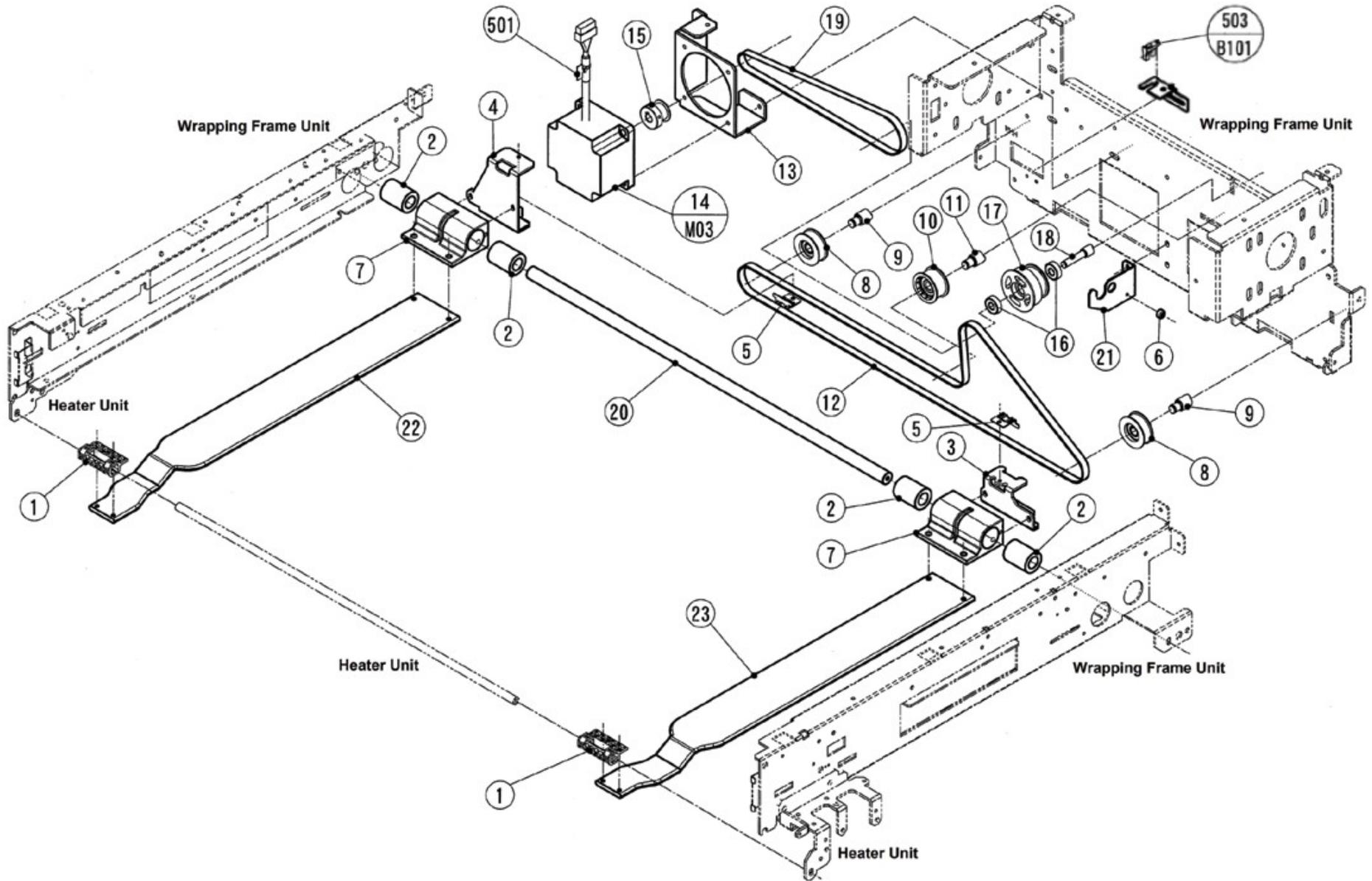
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## WRAPPING: FRONT/REAR (Sections 2)



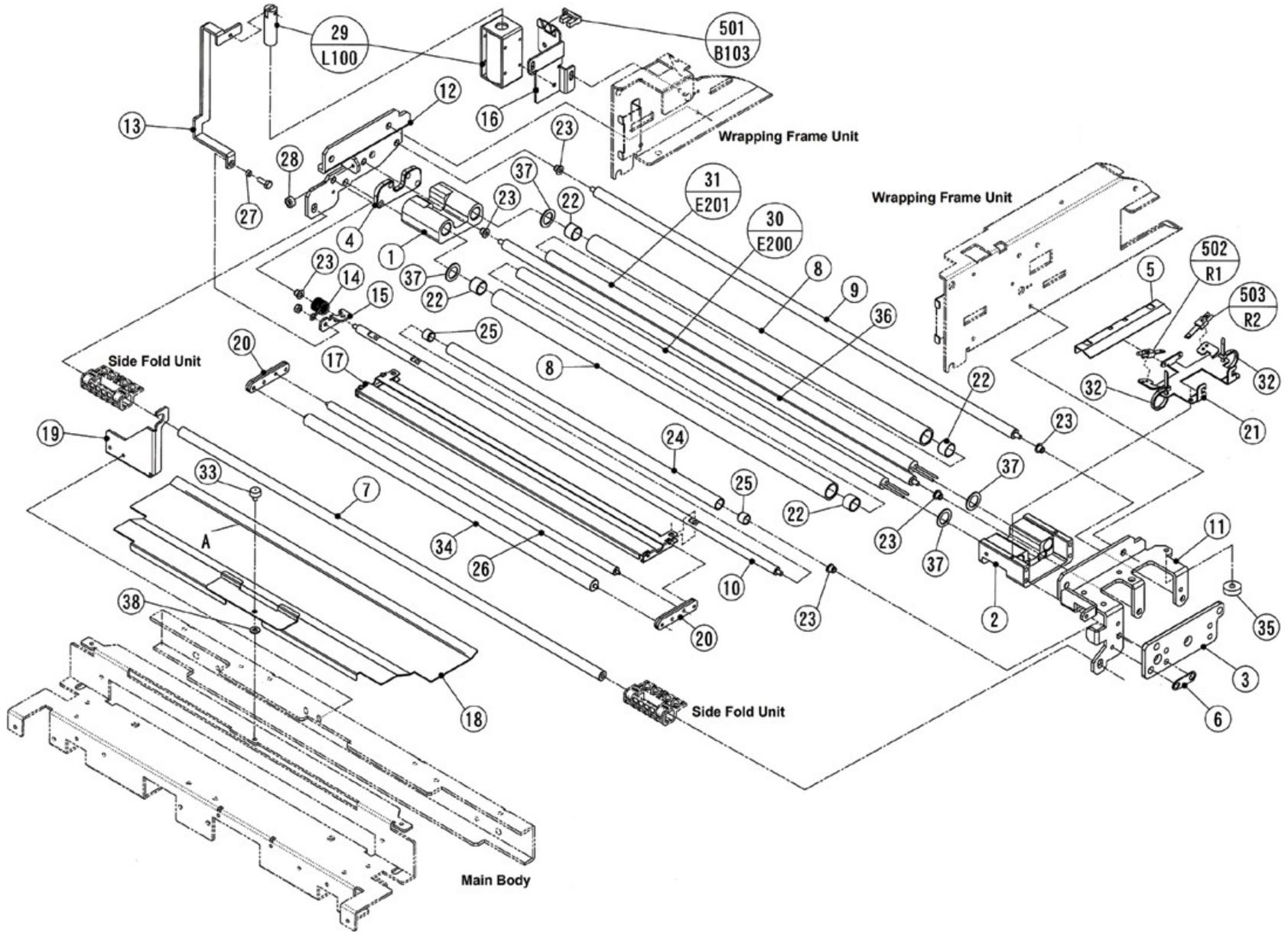
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## WRAPPING: LEFT/RIGHT (Section 3)



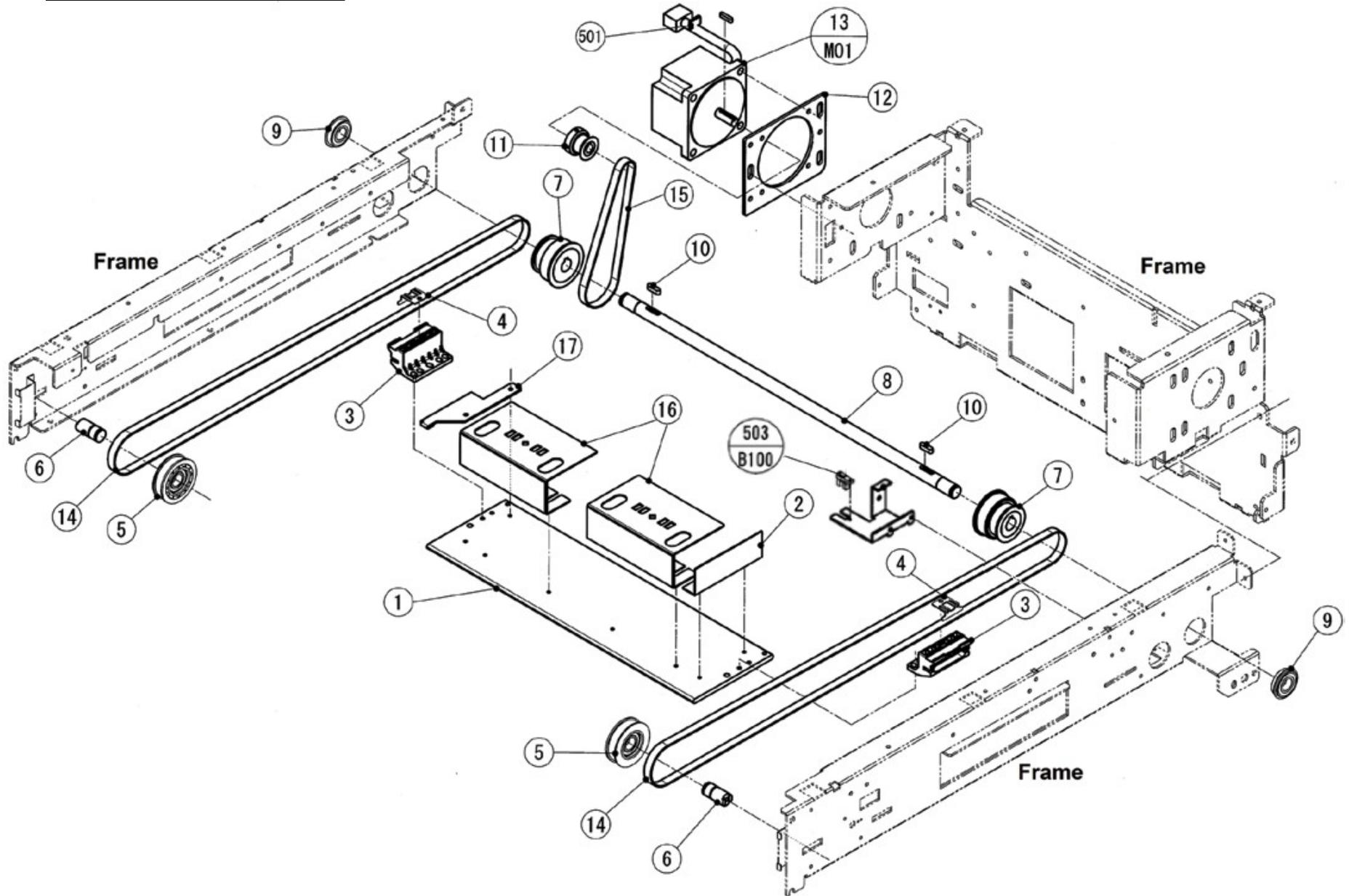
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## SEAL HEATERS (Section 4)



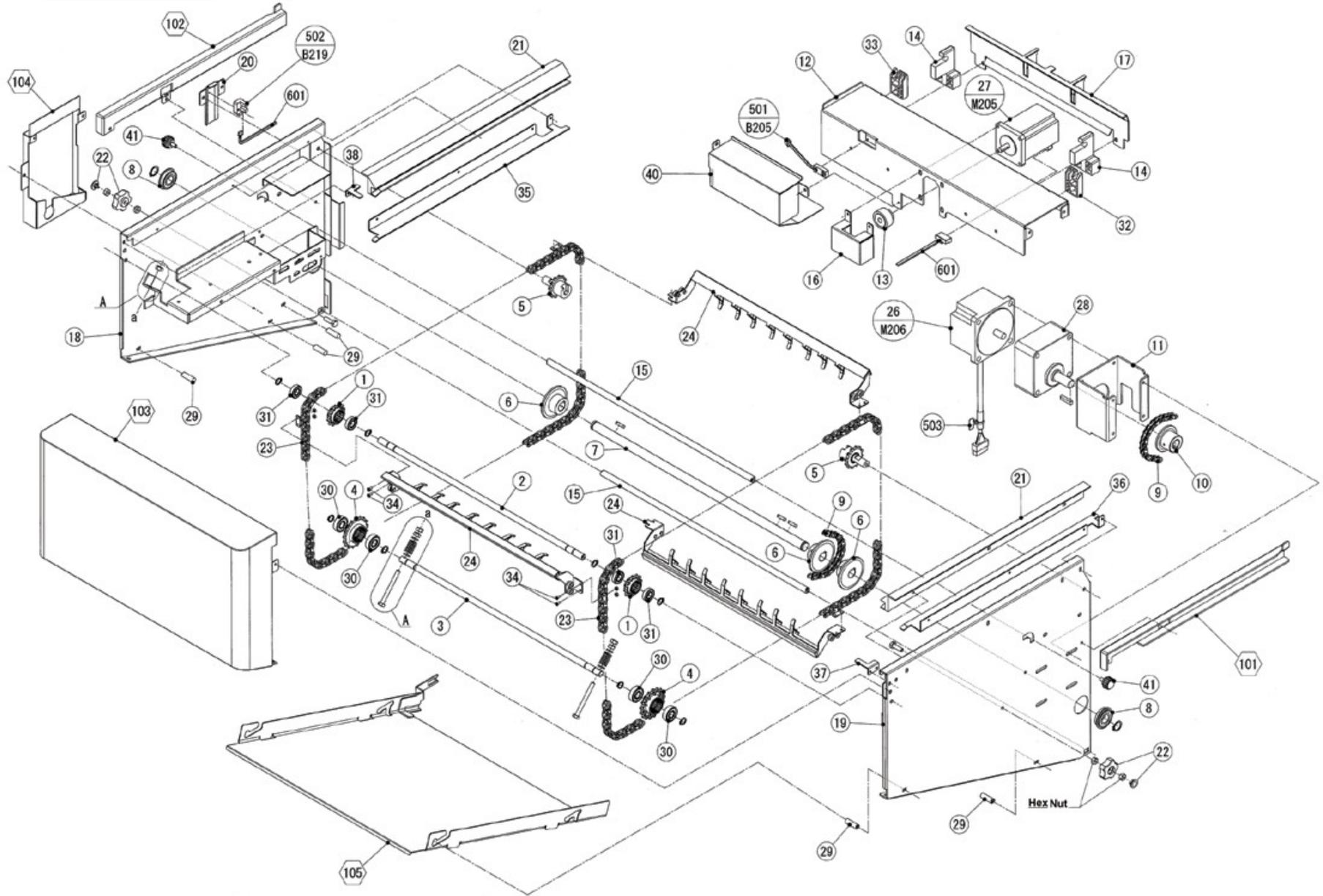
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## DISCHARGE PUSHER (Section 5)



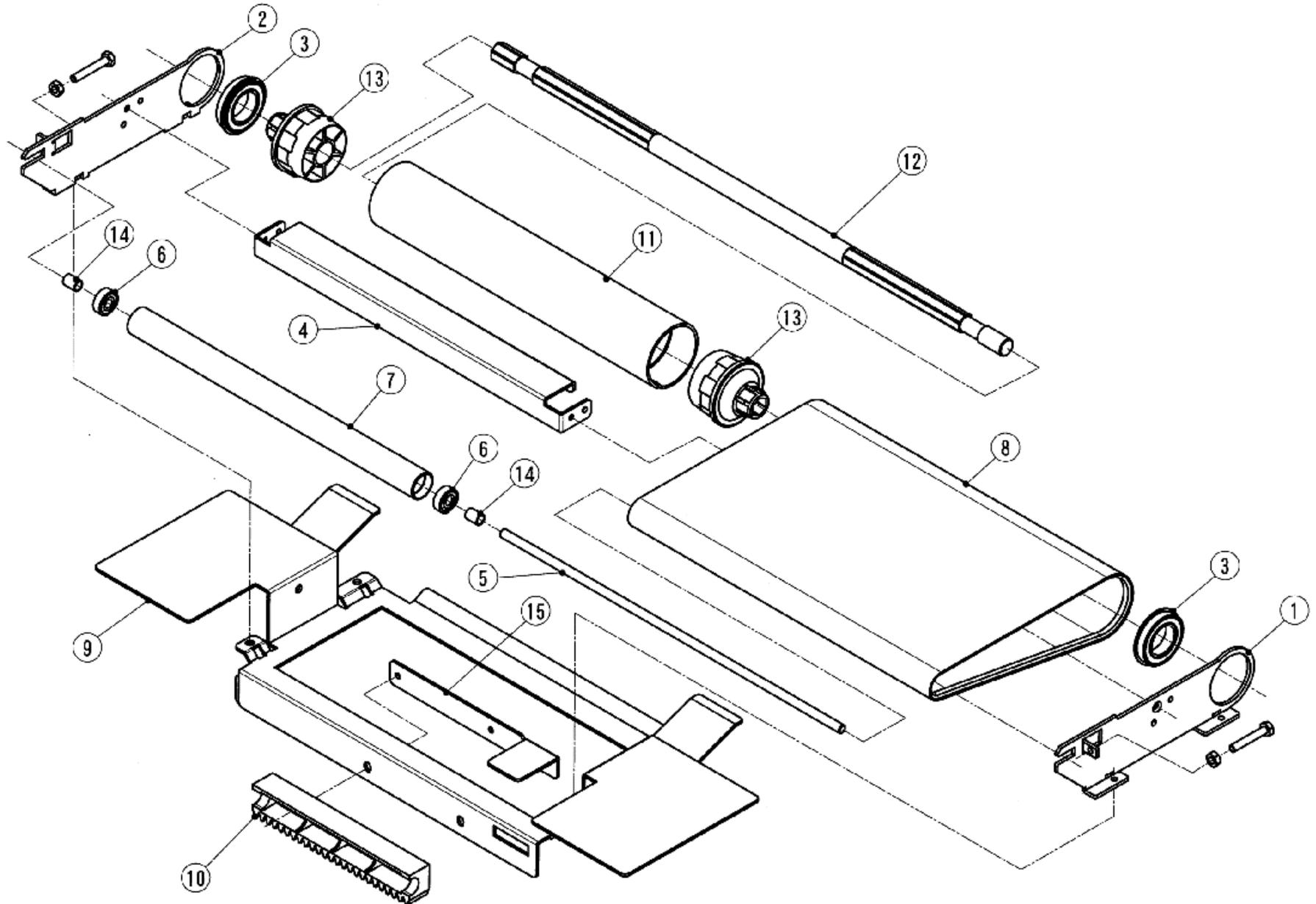
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## INFEED (Section 6)



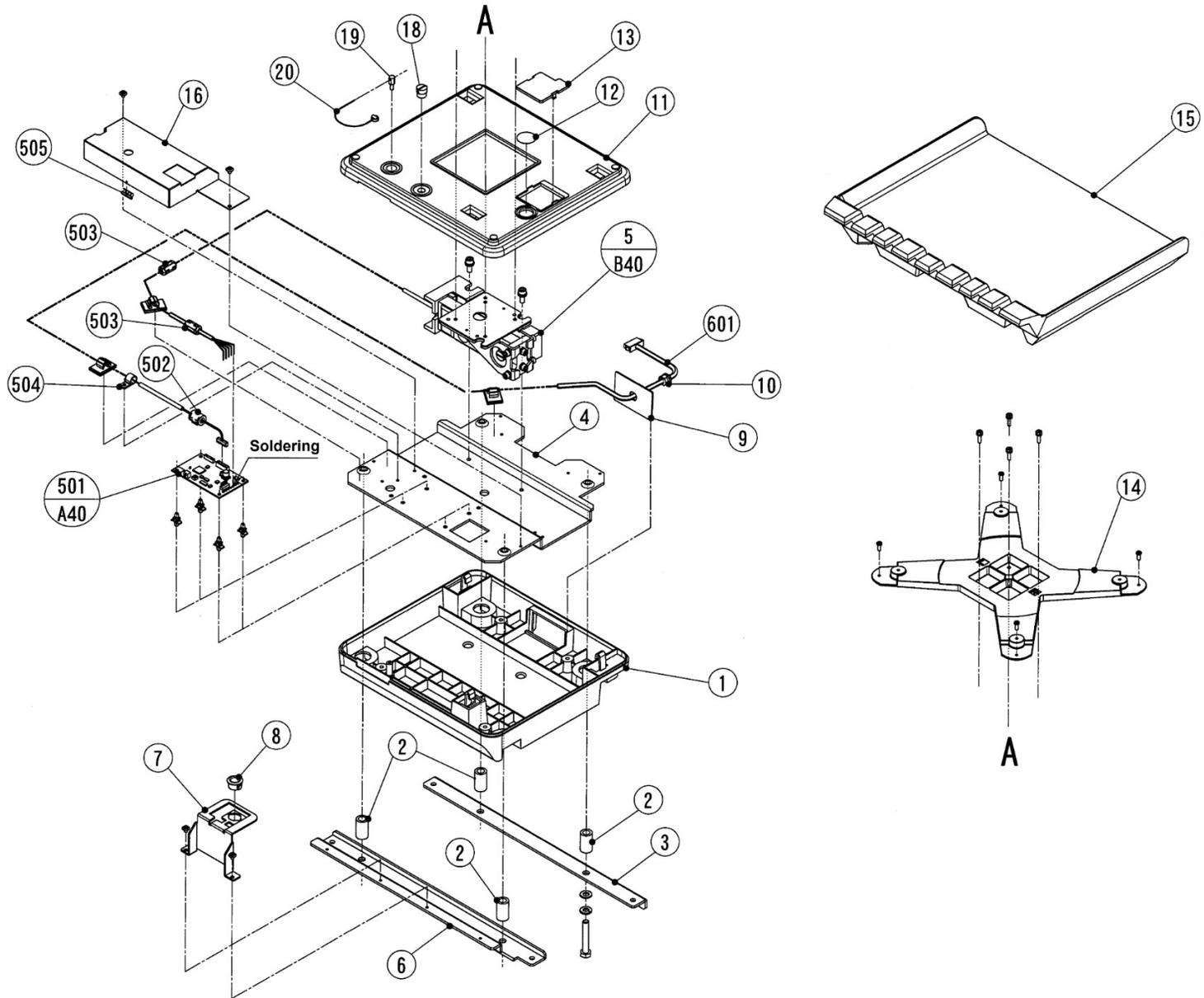
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## CENTERING (Section 7)



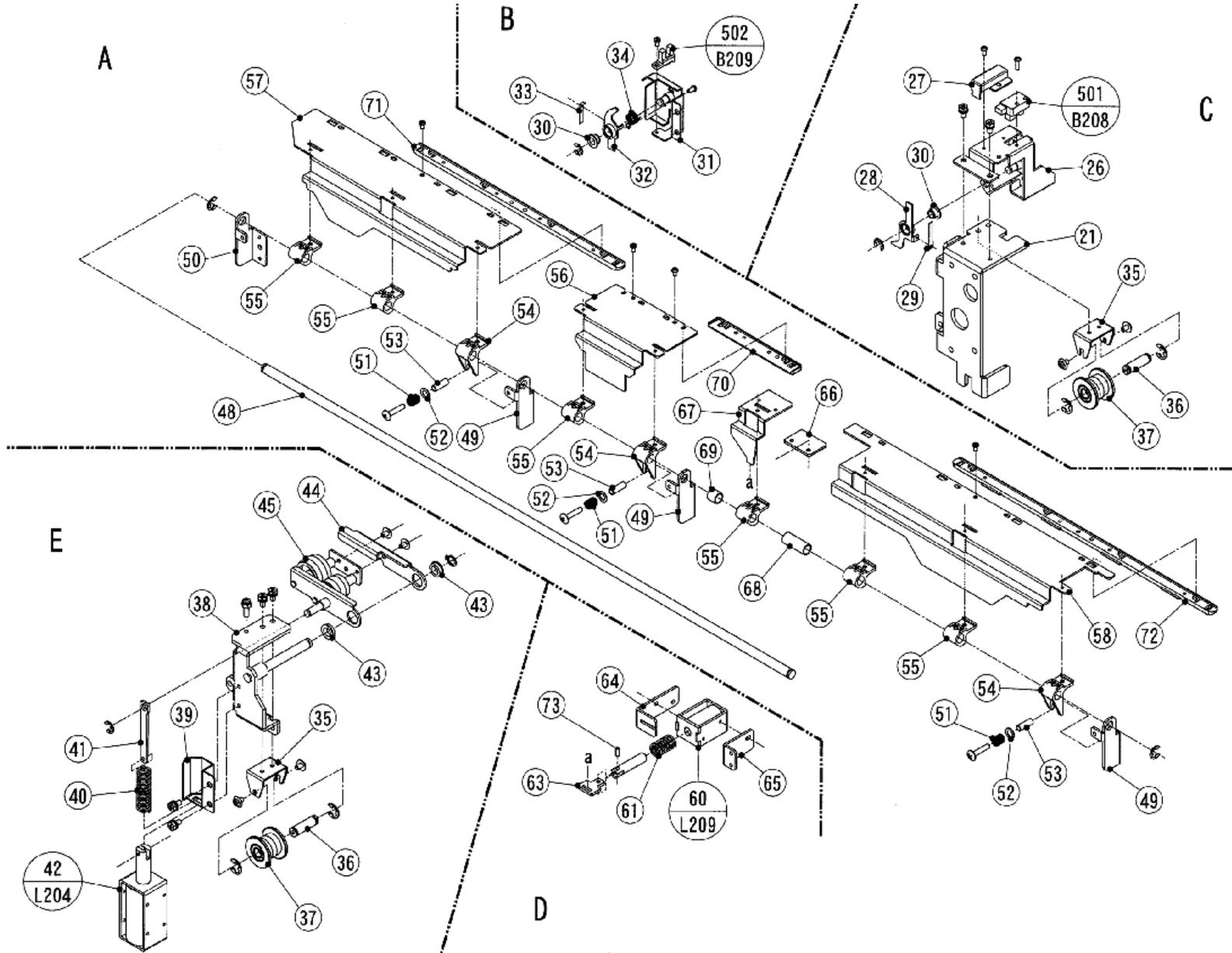
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## SCALE (Section 8)



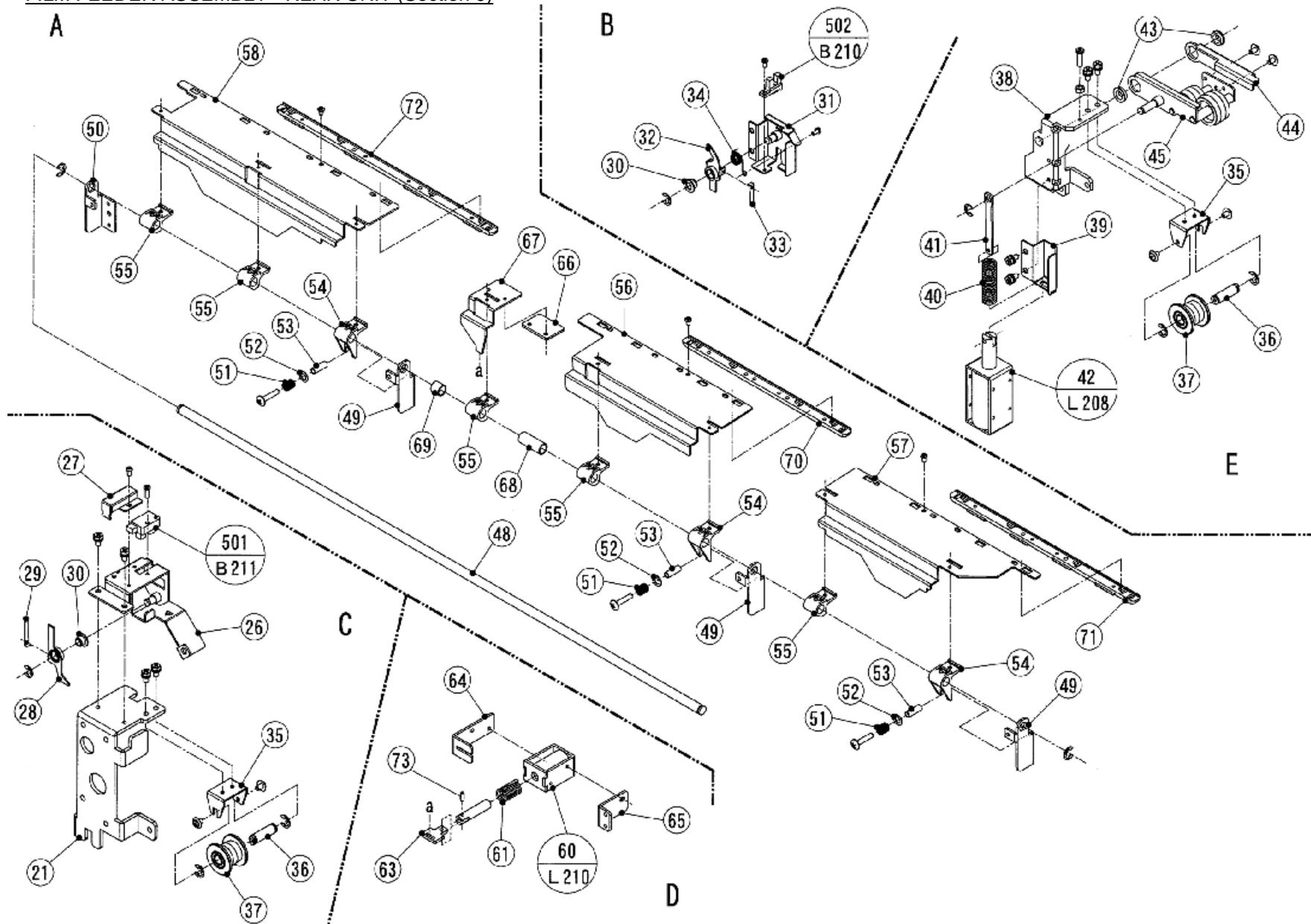
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## FILM FEEDER ASSEMBLY - FRONT UNIT (Section 9)



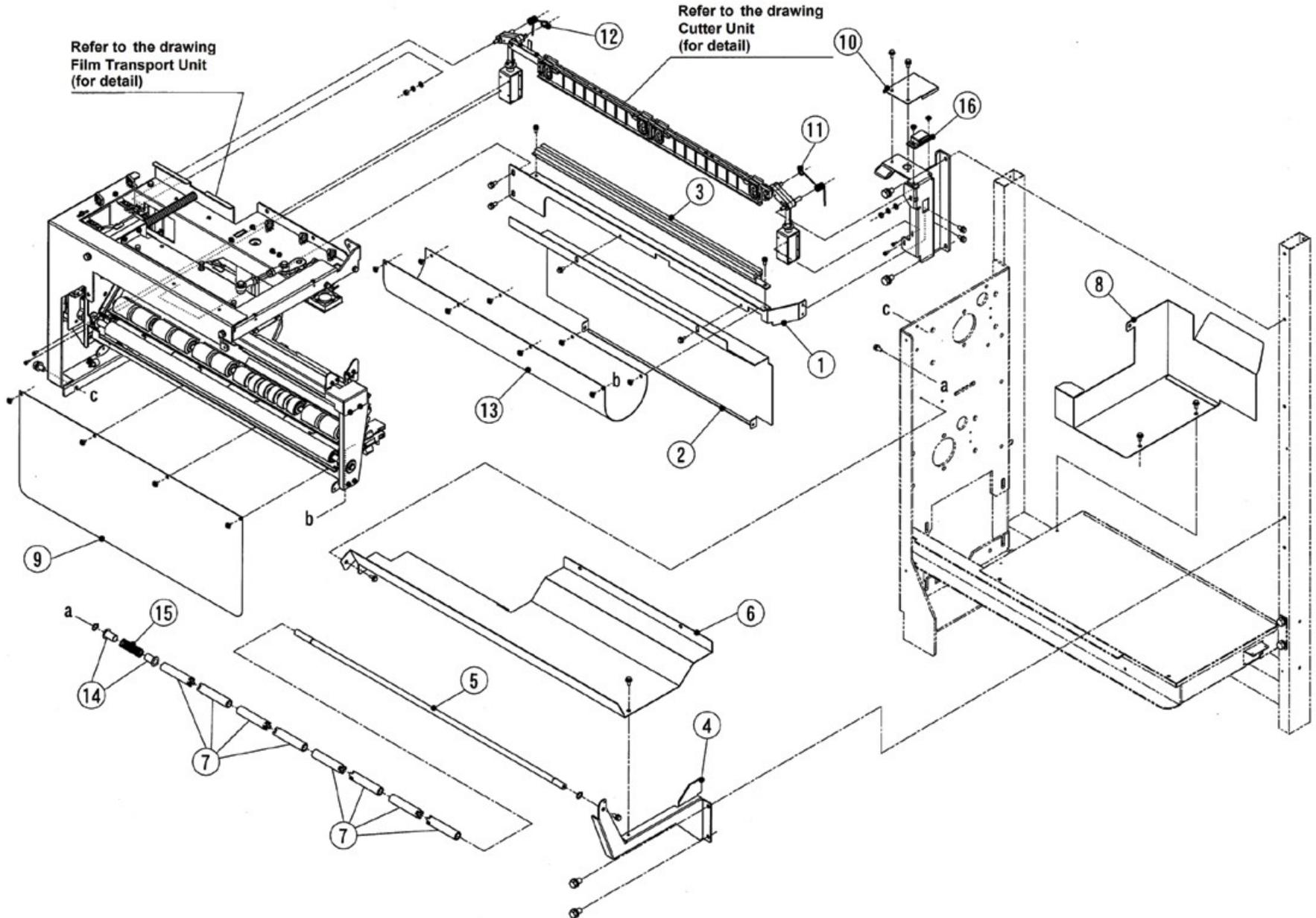
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## FILM FEEDER ASSEMBLY - REAR UNIT (Section 9)



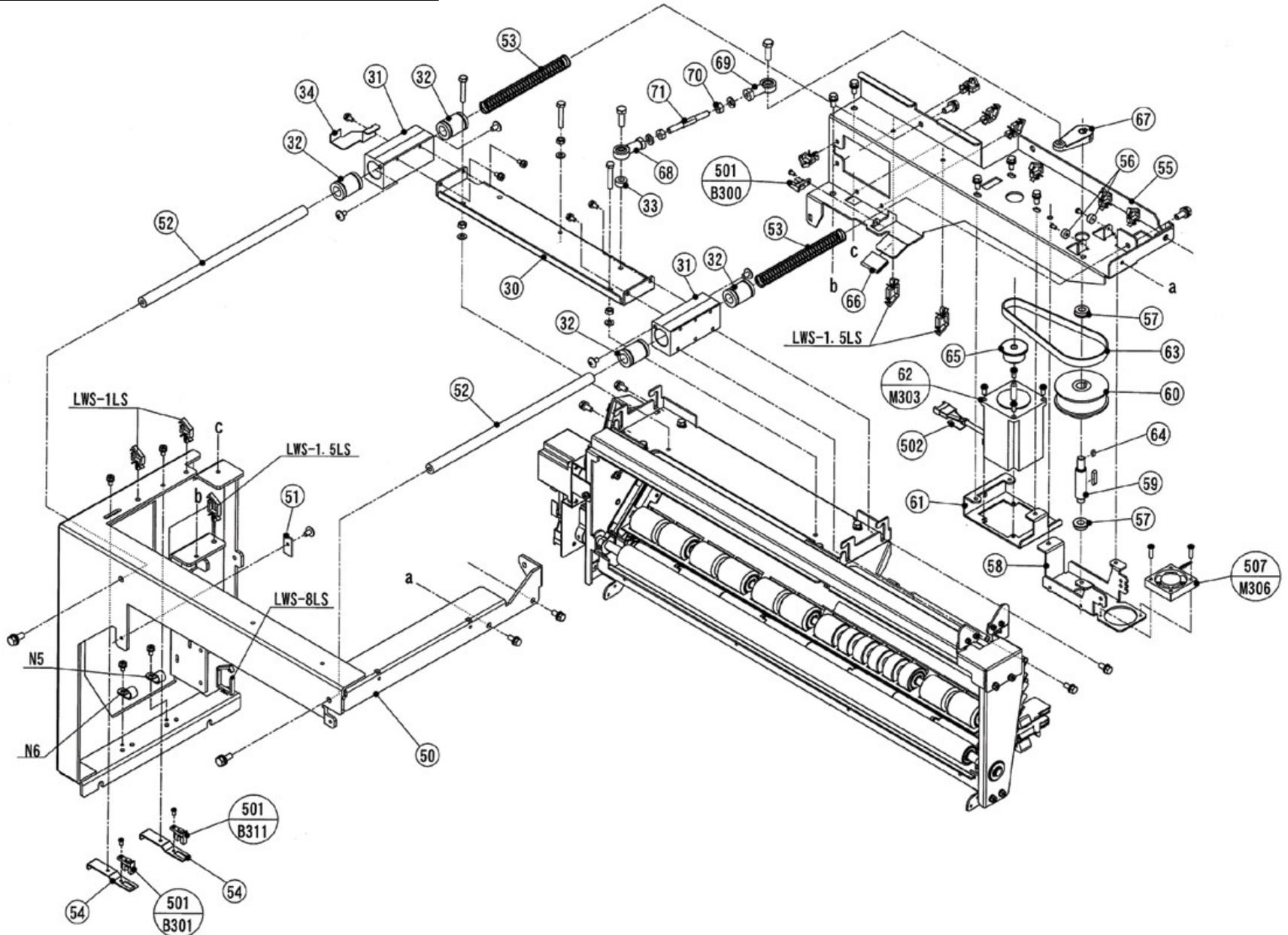
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## FILM TRANSPORT ASSEMBLY #1 (Section 10)



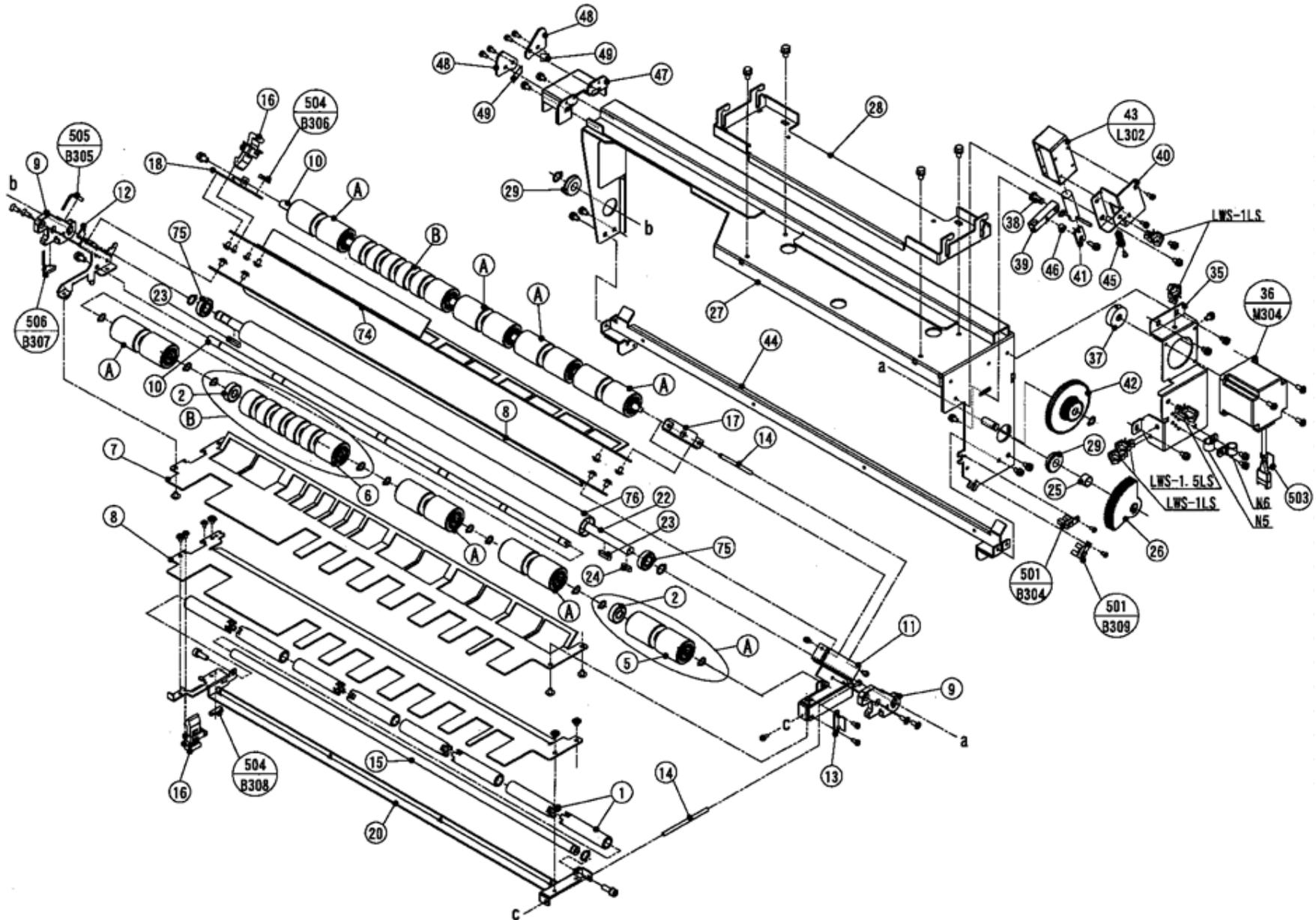
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## FILM TRANSPORT ASSEMBLY - #2 (Section 10)



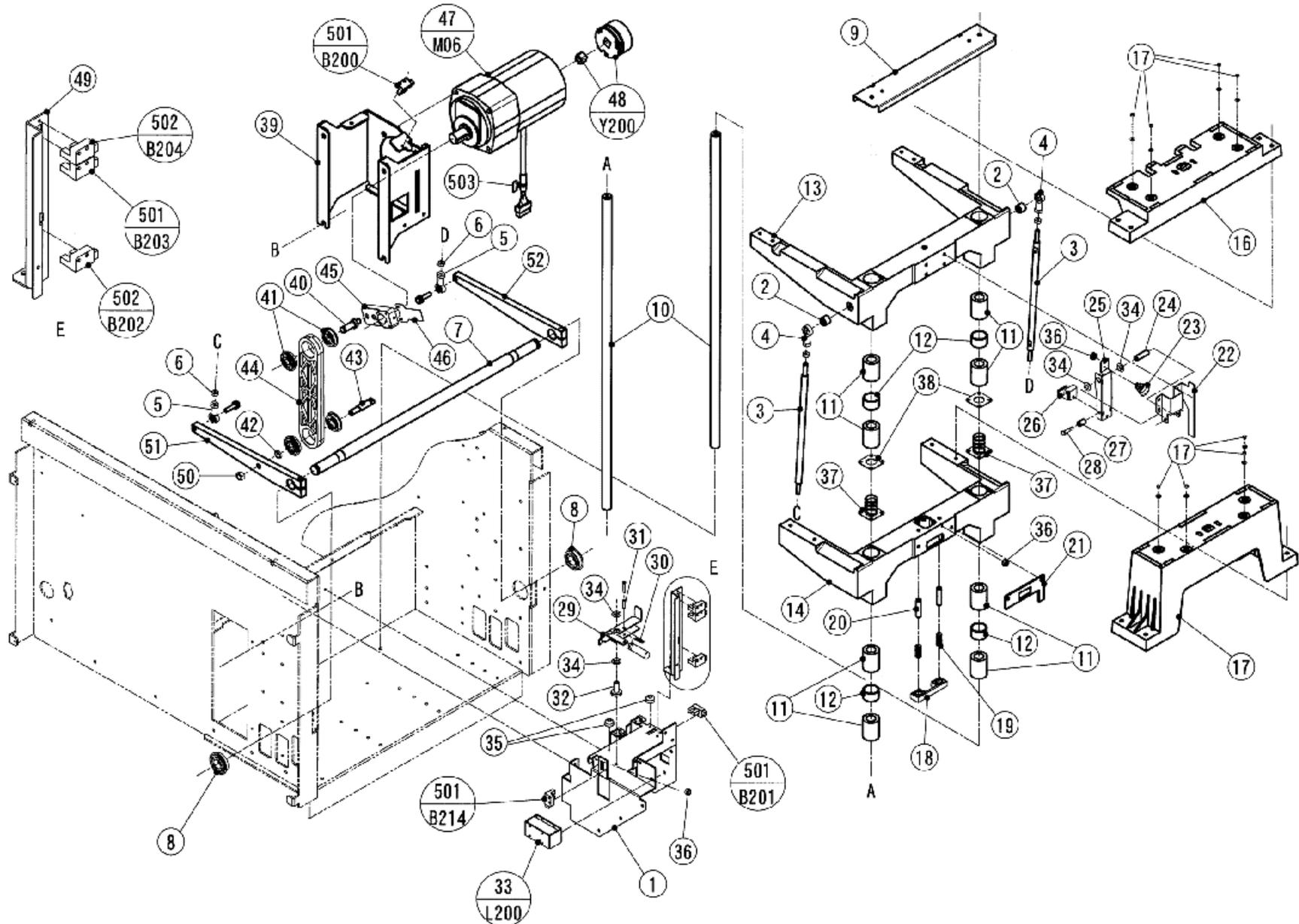
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## FILM TRANSPORT ASSEMBLY - #3 (Section 10)



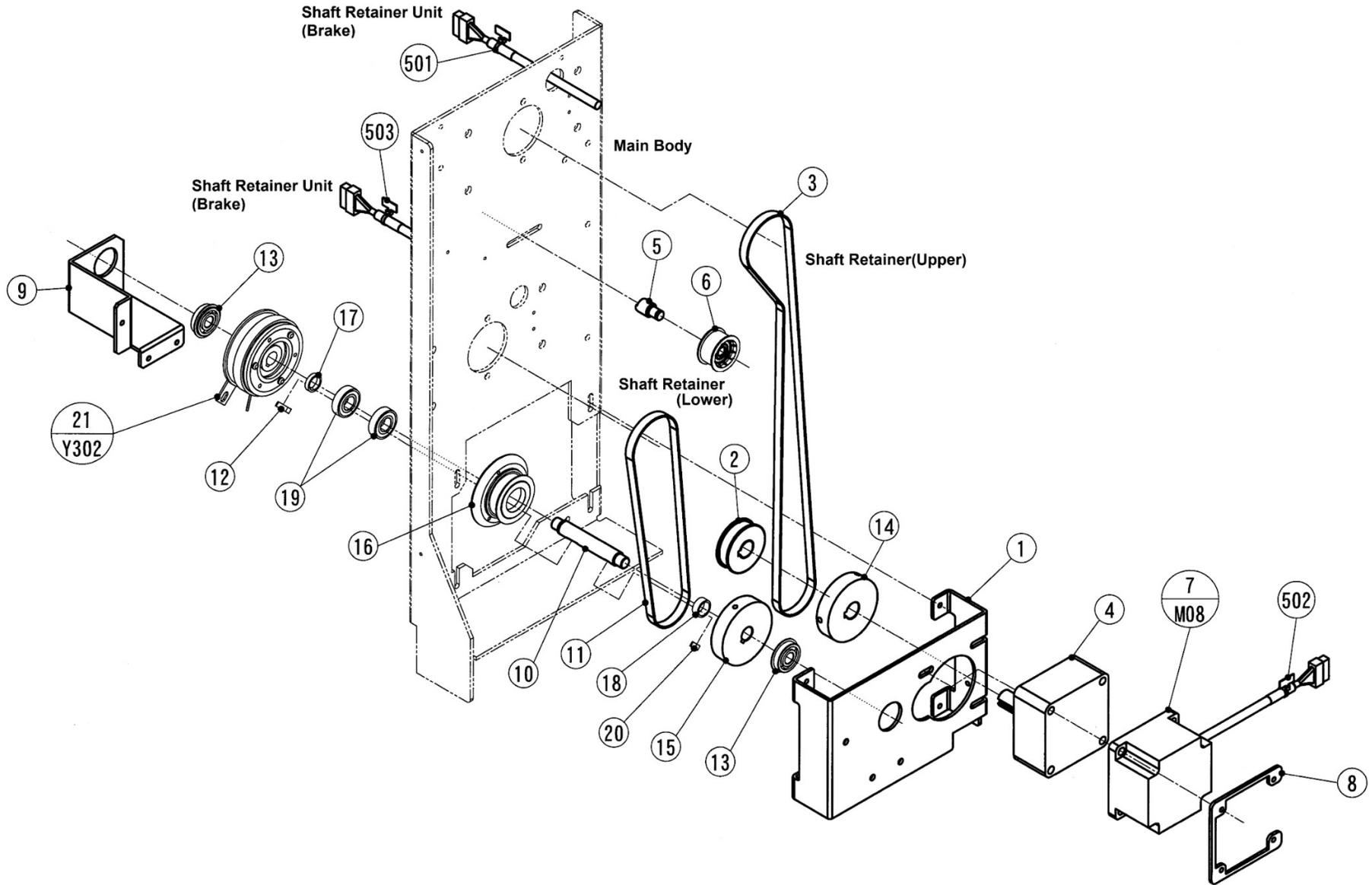
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## LIFT DRIVE (Section 11) & LIFT SIZE CHANGE (Section 12)



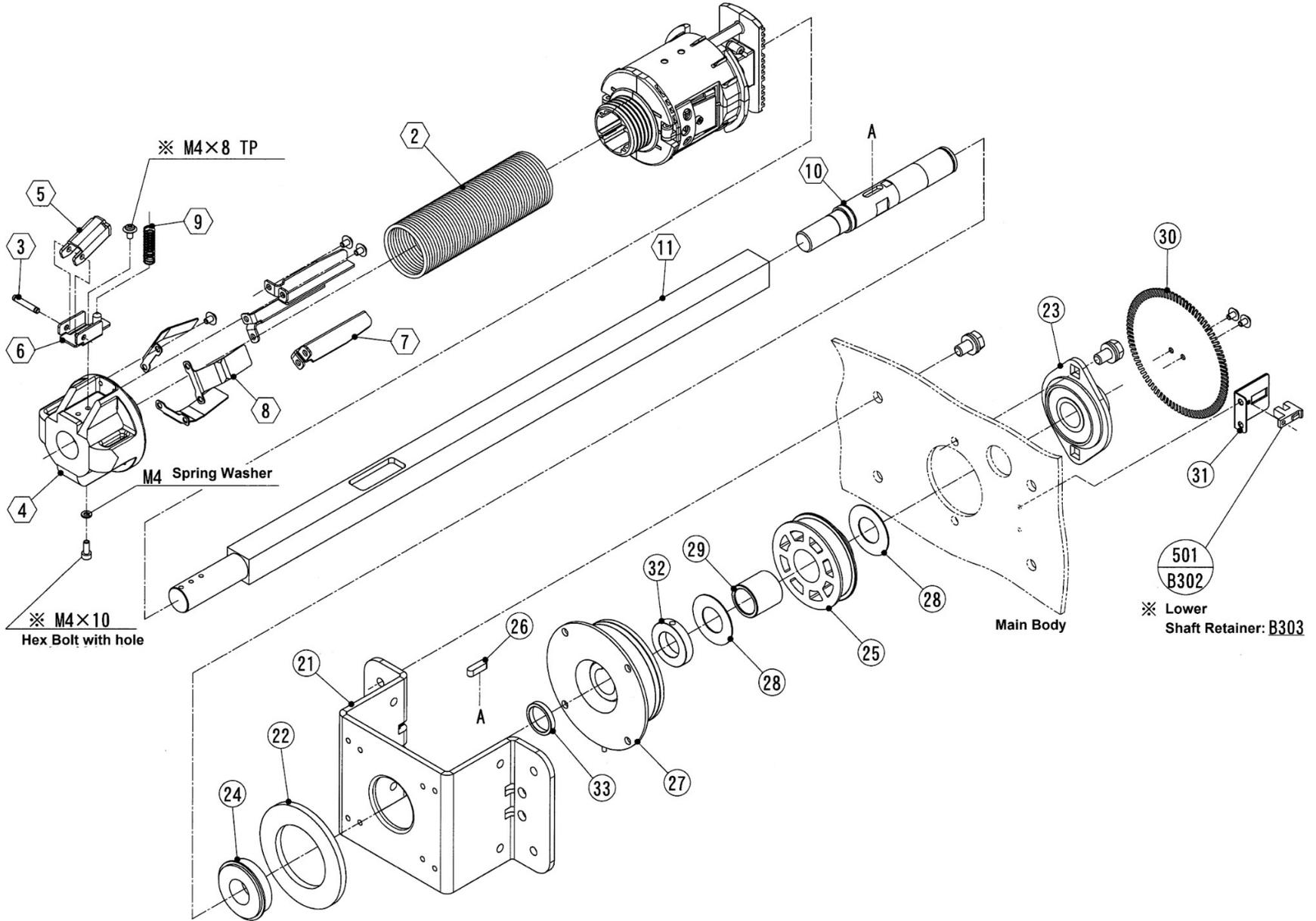
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## FILM ROLL DRIVE - (Section 13)



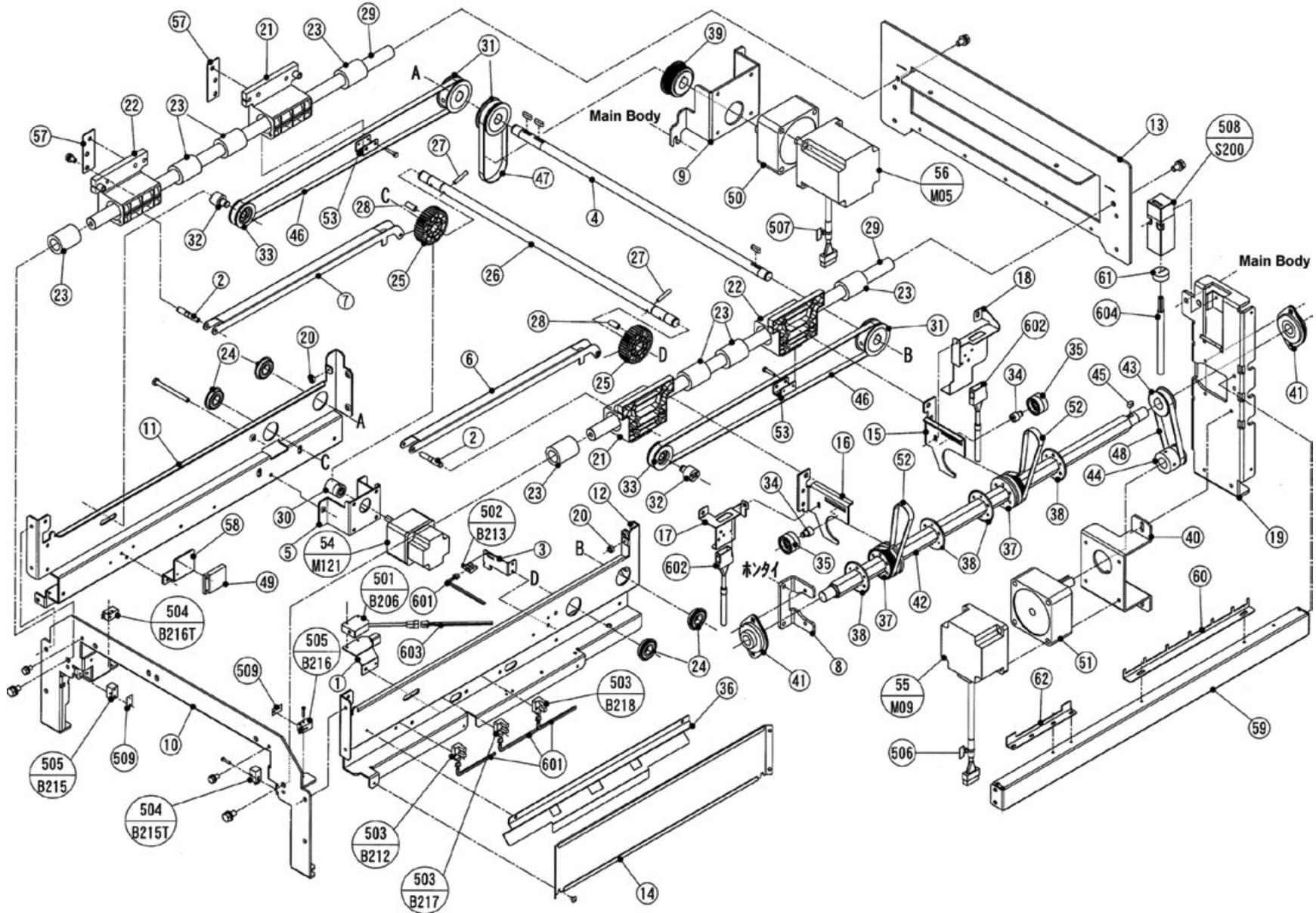
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## FILM ROLL HOLDERS - (Section 13)



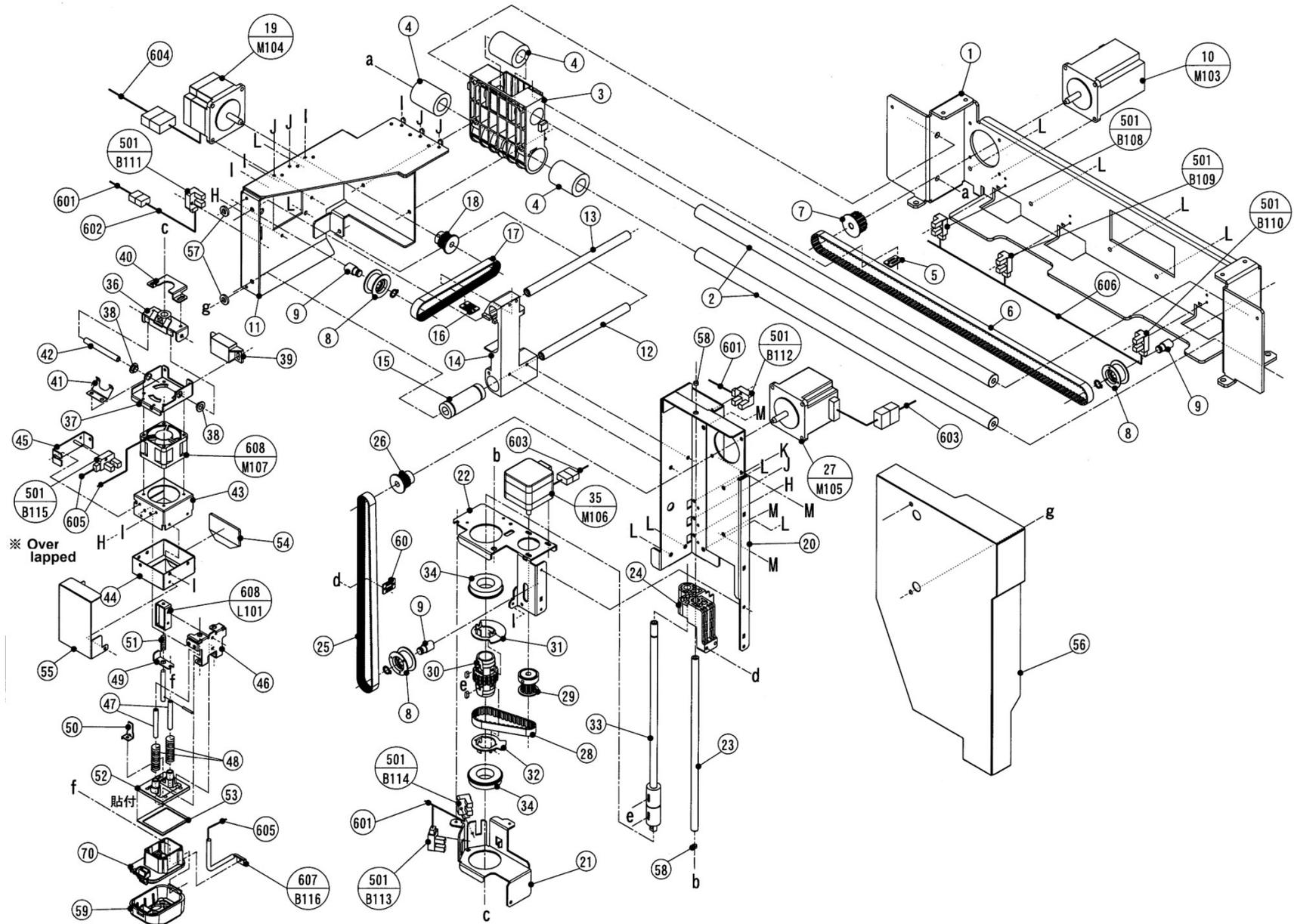
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## FILM FEEDER MOVEMENT (Section 14)



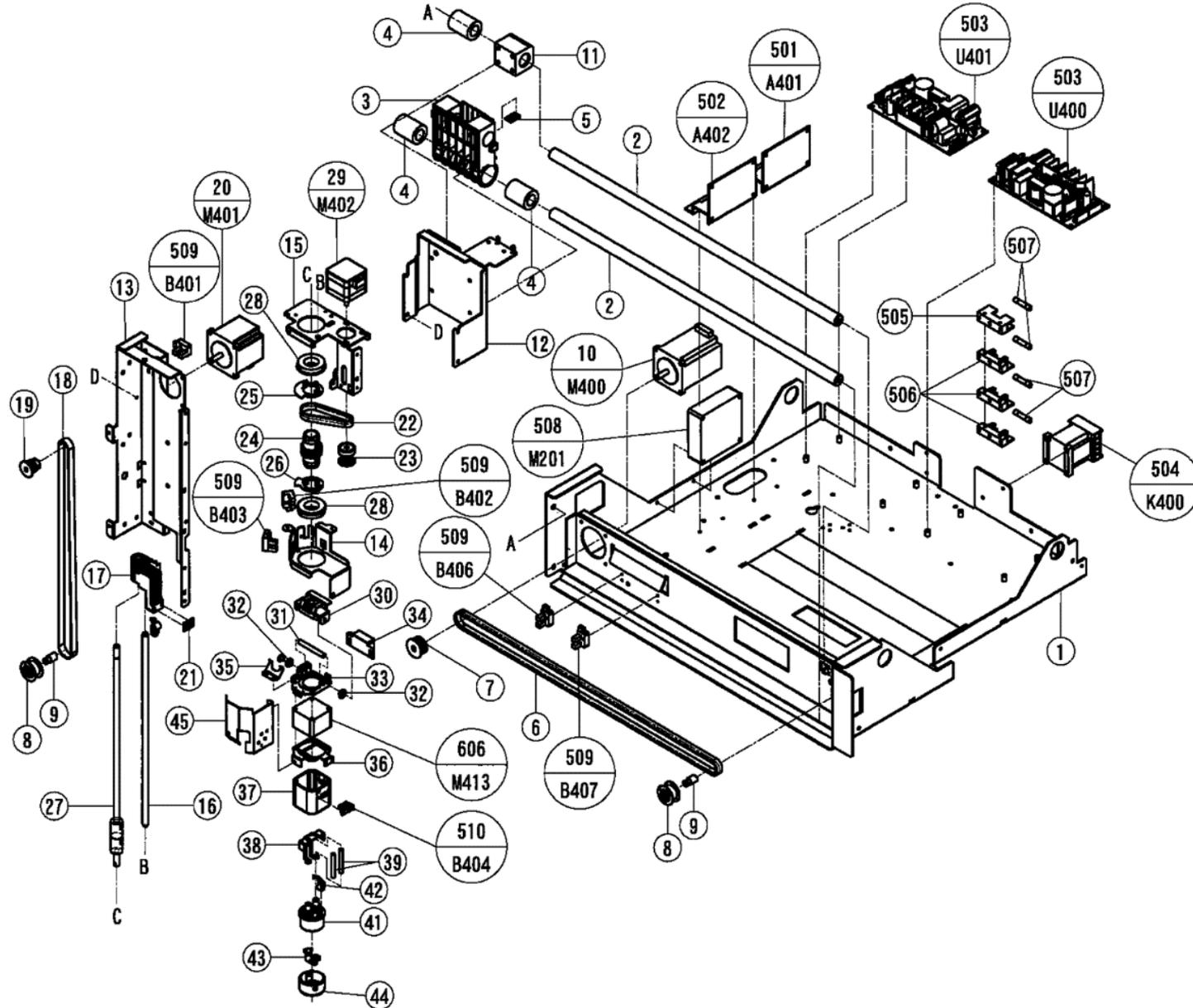
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## LABEL APPLICATOR - MAIN (Section 15)



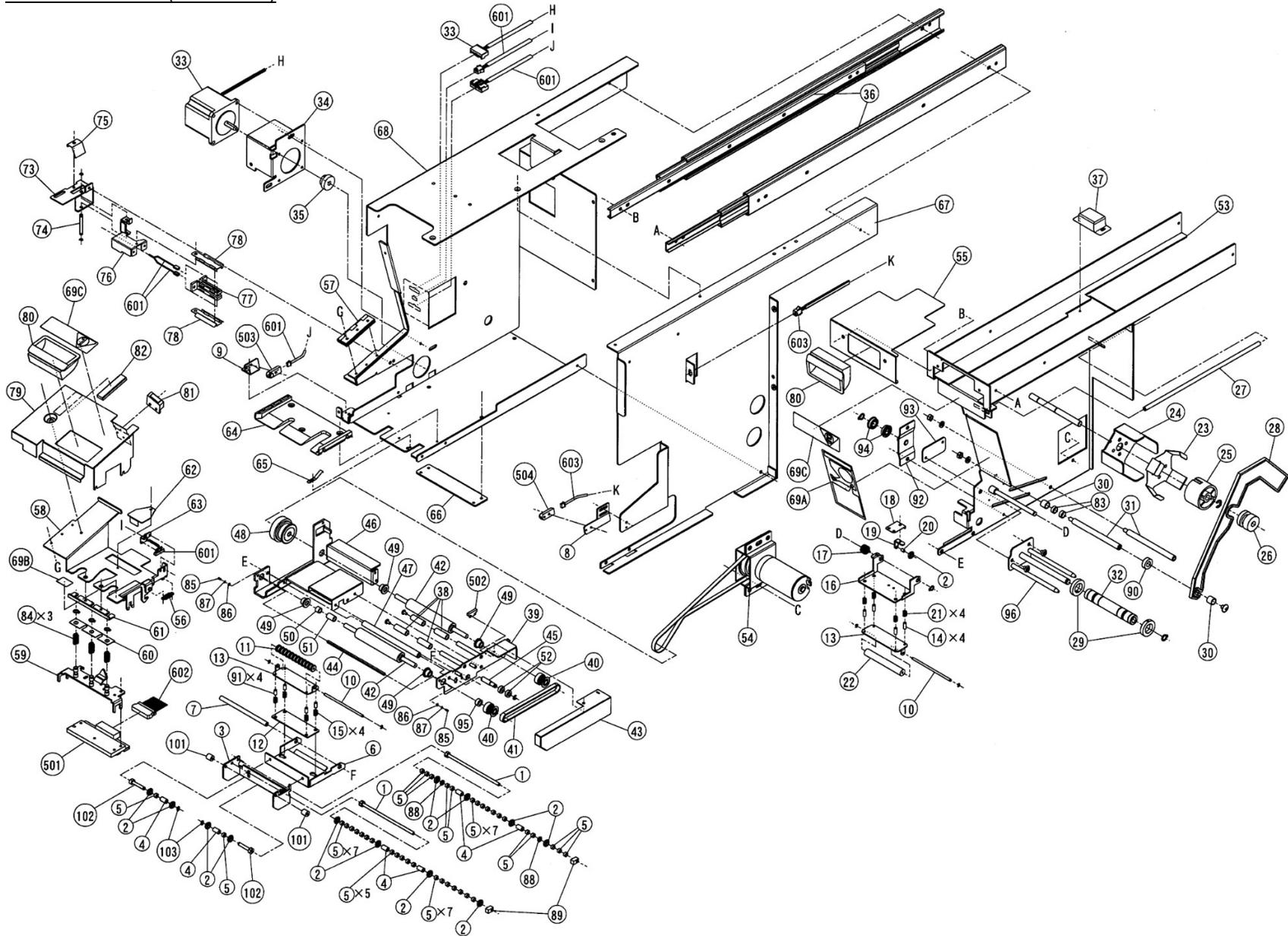
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## LABEL APPLICATOR - POP (Section 16)



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## PRINTER - MAIN (Section 17)

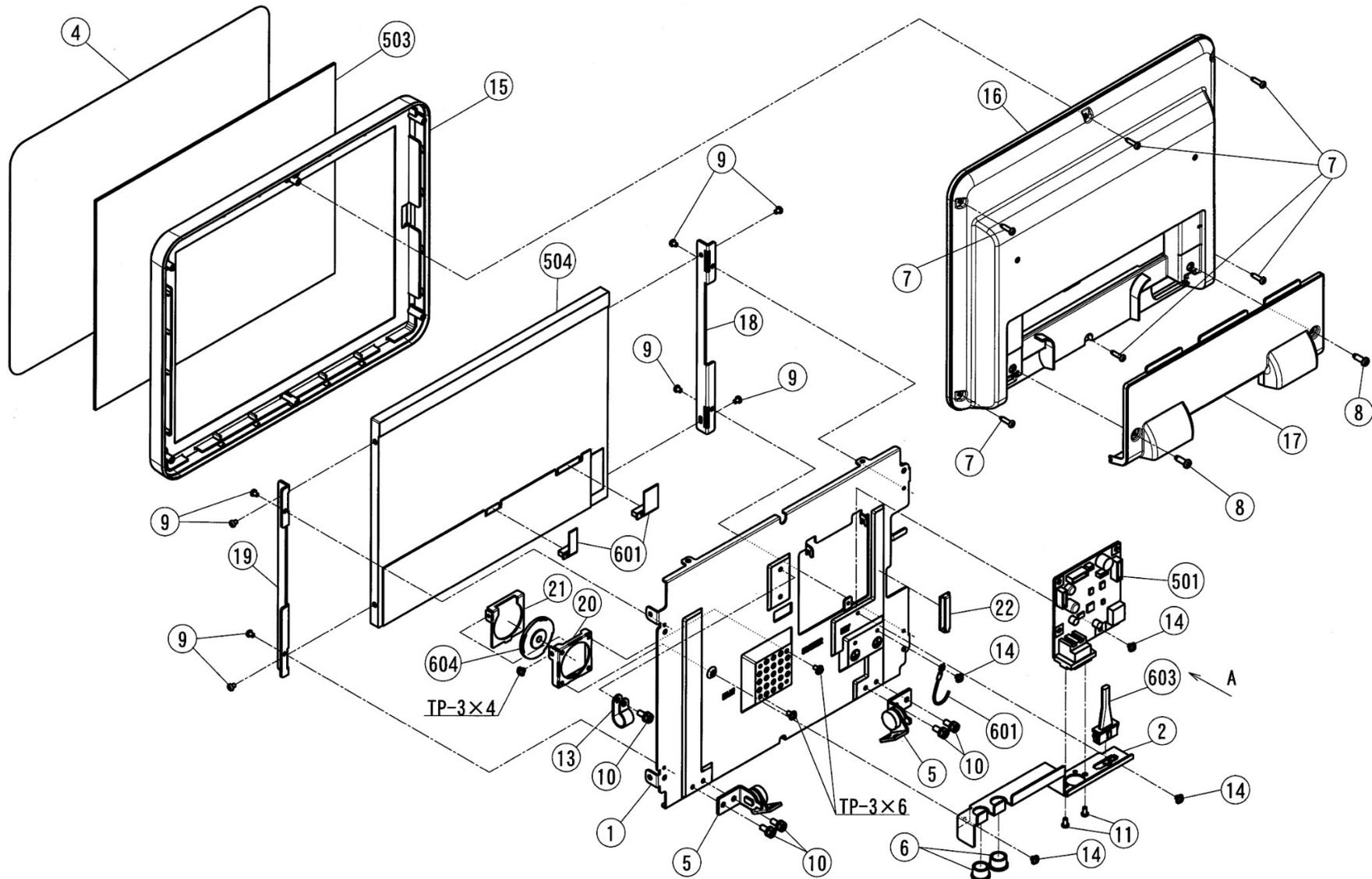






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## TOUCH SCREEN DISPLAY (Section 20)



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## KEYBOARD ASSEMBLY (Section 21)

