

Bill-to-Bill Currency Management System

Operation and Service Manual

Part 2. TESTING AND REPAIR

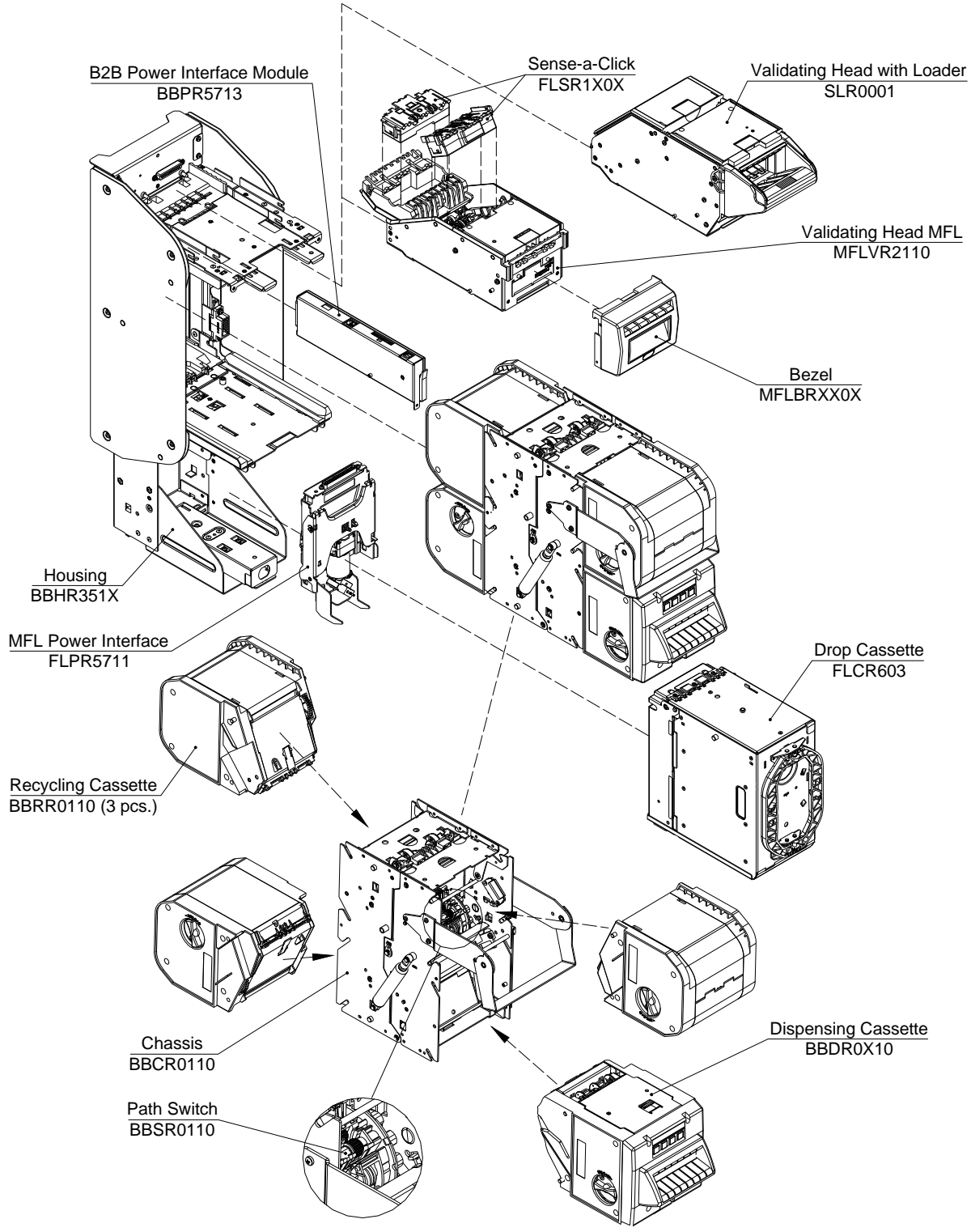


Table of Contents

Whole assembly.....	4
Housing.....	6
Housing (BBHR3513) – Exploded view.....	7
Housing (BBHR3512) – Exploded view.....	9
Holder GND (0100407) – Exploded view.....	17
Case GND (0100409) – Exploded view.....	18
Box Detector (0900016) – Exploded view.....	18
Switch (0900017) – Exploded view.....	19
B2B Power Interface Module.....	20
B2B Power Interface Module (BBPR5713) – Exploded view.....	20
Chassis.....	22
Chassis (BBCR0110) – Exploded view.....	23
Chassis (0100265) – Exploded view.....	26
Cassette Drive (0300104) – Exploded view.....	33
Guide (0200111) – Exploded view.....	33
Pawl (0300103) – Exploded view.....	34
Chassis (0100257) – Exploded view.....	35
Cassette Drive (0300101, 0300101-01) – Exploded view.....	37
Guide (0200110) – Exploded view.....	41
Bed Bill Drive (0300099) – Exploded view.....	41
Recycling Cassette.....	43
Recycling Cassette (BBRR0110) – Exploded view.....	44
Dispensing Cassette.....	50
Dispensing Cassette (BBDR0110, BBDR0310) – Exploded view.....	51
Top Belts Block (0200116) – Exploded view.....	60
Guide (0200114) – Exploded view.....	63
Lever (0300121) – Exploded view.....	63
Shaft (0300123) – Exploded view.....	64
Guide (0200126) – Exploded view.....	64
Bracket (0300276) – Exploded view.....	65
Pawl (0200279) – Exploded view.....	65
Guide (0200115) – Exploded view.....	66
Drive (0300124) – Exploded view.....	68
Panel (0100286) – Exploded view.....	69
Panel (0100376) – Exploded view.....	70
Guide Lover (0200117) – Exploded view.....	71
Validating Head.....	73
Validating Head (MFLVR2110) – Exploded view.....	74
Drive Chassis (0300049) – Exploded view.....	81
Case (0100128) – Exploded view.....	87
Guide (0200055) – Exploded view.....	88
Guide (0200052) – Exploded view.....	89
Guide (0200053) – Exploded view.....	90
Angle Piece (0200054) – Exploded view.....	91
Sense-a-Click sensor set.....	92

Upper Sense-a-Click module (FLSR1704U, FLSR1705U, FLSR1801U, FLSR1901U) –
 Exploded view..... 93
 Case (0100222) – Exploded view 94
 Lower Sense-a-Click module (FLSR1704L, FLSR1705L, FLSR1801L, FLSR1901L) –
 Exploded view..... 95
 Case (0100221) – Exploded view 96
 Power Interface Module 96
 Power Interface Module (FLPR5711) – Exploded view 98
 Bezel 102
 Standard Bezel (MFLBR2401) – Exploded view..... 103
 Bezel with Running Lights (MFLBR2201) – Exploded view 103
 Bezel with Running Lights and Digital Display (MFLBR3201) – Exploded view..... 104
 Mounting Kit for Plastic Bezel installation (OPT-MKFL-B01) – Exploded view 109
 Metal Bezel (MFLBR7102) – Exploded view..... 109
 Mounting Kit for Metal Bezel installation (OPT-MKFL-B04) – Exploded view 110
 Bracket (0200159) – Exploded view 110
 Drop Cassette 111
 Cassette (FLCR603) – Exploded view 112
 Housing (0100119) – Exploded view 116
 Case (0100194) – Exploded view 117
 Validating Head with Loader..... 120
 Validating Head with Loader (SLR0001) – Exploded view..... 121
 Separate Rollers' (0300145) – Exploded view 131
 Full Drive (0300153) – Exploded view 131
 Case (0100356) – Exploded view 142
 Upper Guide (0200129) – Exploded view 142
 Feeding module (0300158) – Exploded view..... 146
 Guide (0200133) – Exploded view..... 146
 Inner Guide (0200135) – Exploded view..... 147
 Outer Guide (0200137) – Exploded view..... 148
 Guide (0200138) – Exploded view..... 150

WHOLE ASSEMBLY

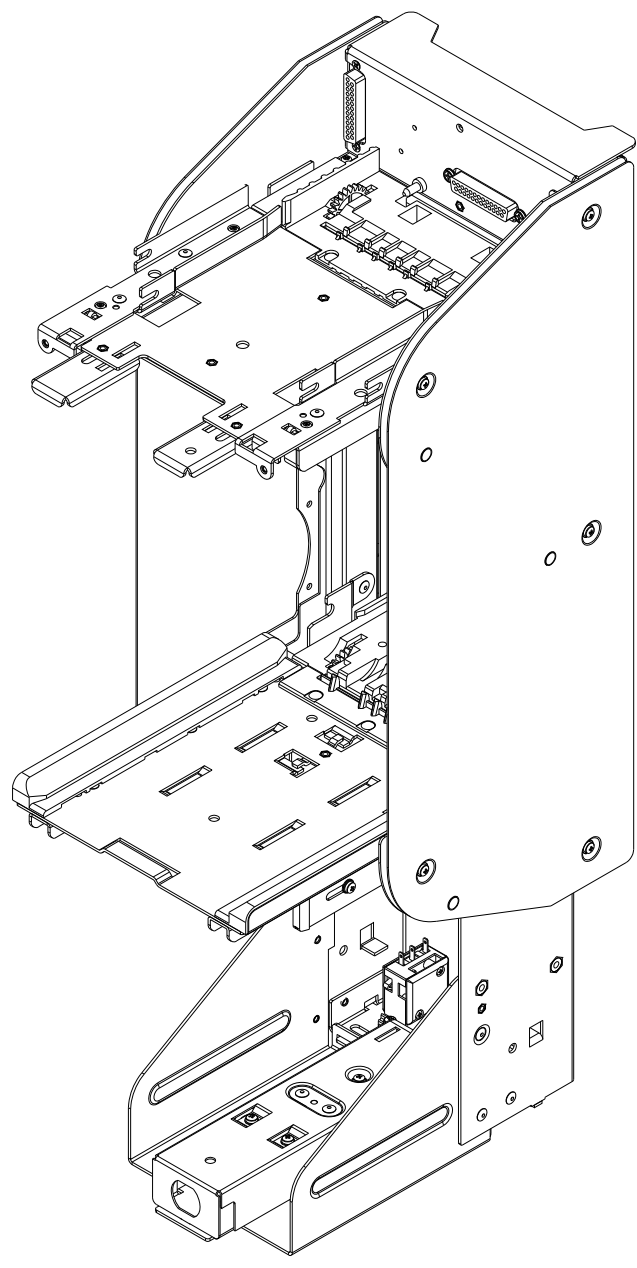
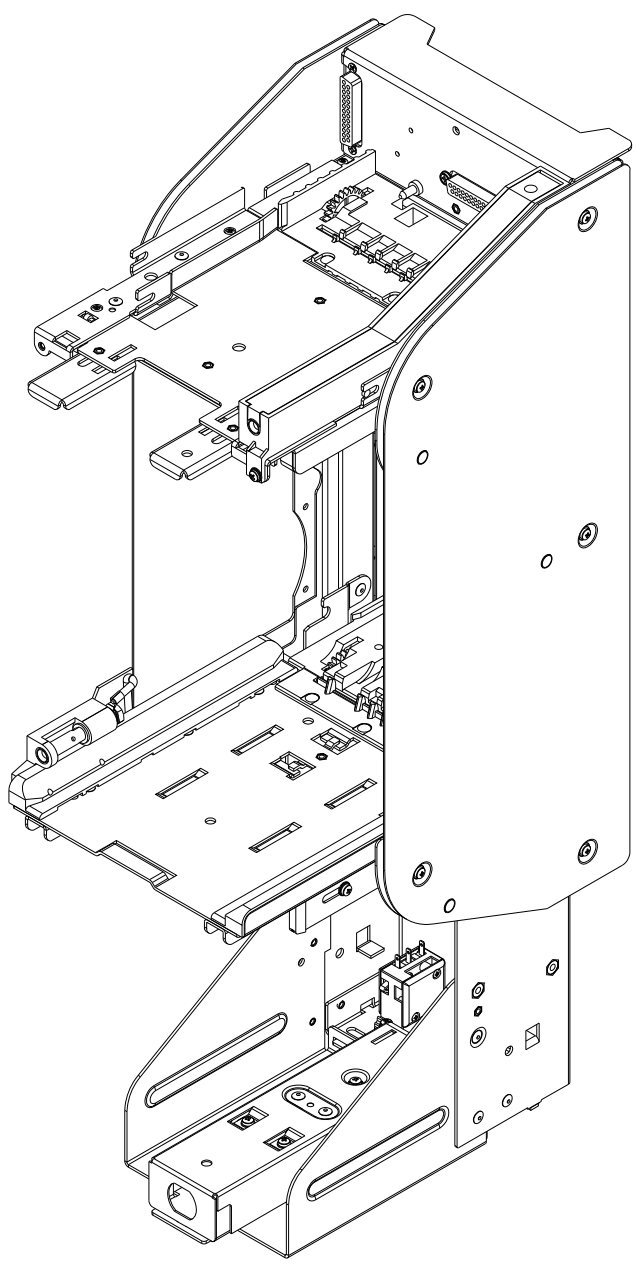


Part ID	Description	Qty.		
		MBBR0100	MBBR0300	BBR1010
BBCR0110	Chassis	1	1	1
BBDR0110	Dispensing Cassette	1		1
BBDR0310	Dispensing Cassette		1	
BBHR3512	Housing Assembly	1		1
BBHR3513	Housing Assembly		1	
BBPR5713	B2B Power Interface Module	1	1	1
BBRR0110	Recycling Cassette	3	3	3
BBSR0110	Path Switch	1	1	1
FLCR603	Drop Cassette	1	1	1
FLPR5711	MFL Power Interface	1	1	1
FLSR1X0X	Sense-a-Click	1	1	
MFLBR7102	Metal Bezel		1	
MFLBRXX01	Plastic Bezel	1		
MFLVR2110	Validating Head MFL	1	1	
SLR0001	Validating Head with Loader			1

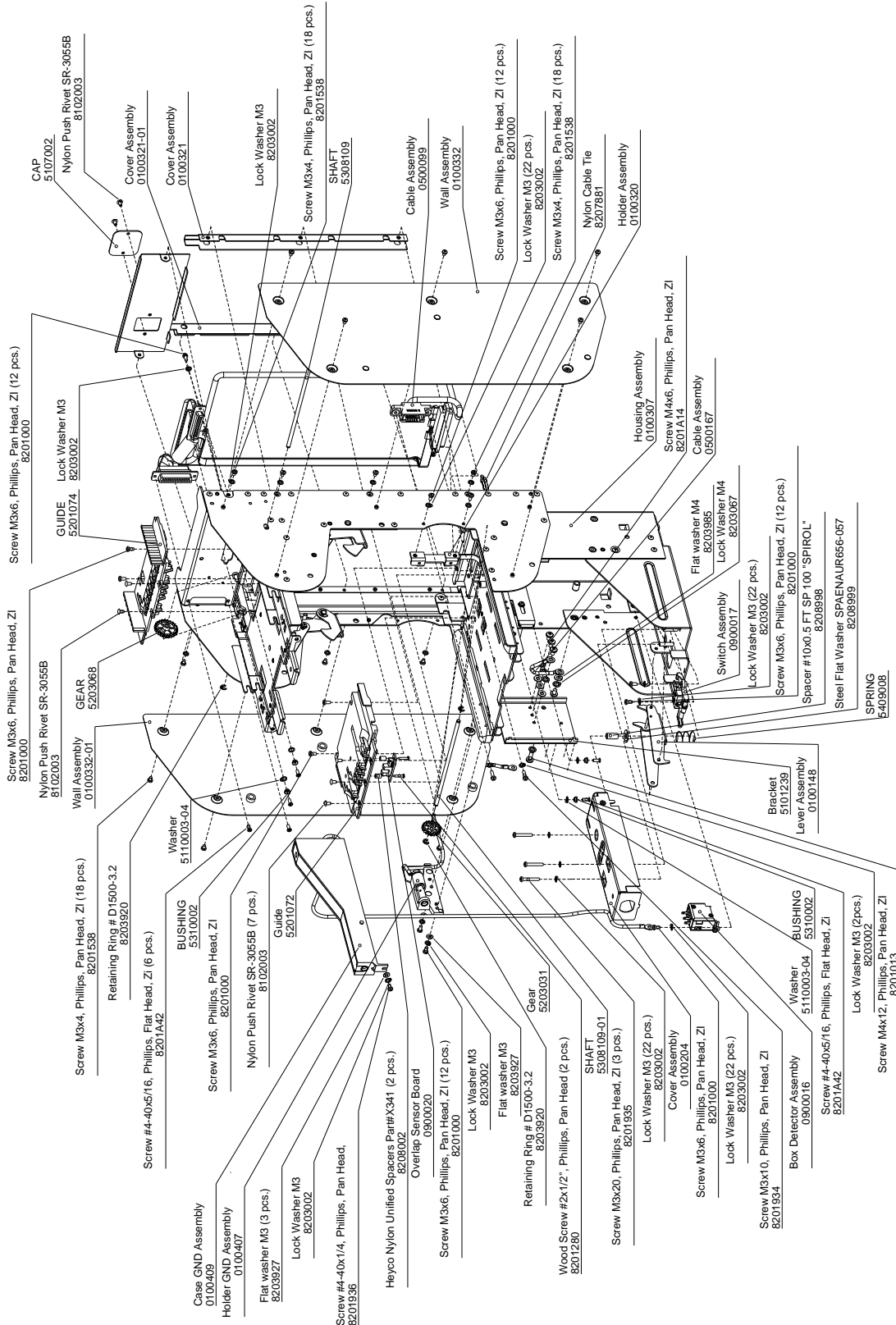
HOUSING

Housing for B2B with metal bezels on Validating Head and Dispenser (BBHR3513)

Housing for B2B with plastic bezels on Validating Head and Dispenser (BBHR3512)

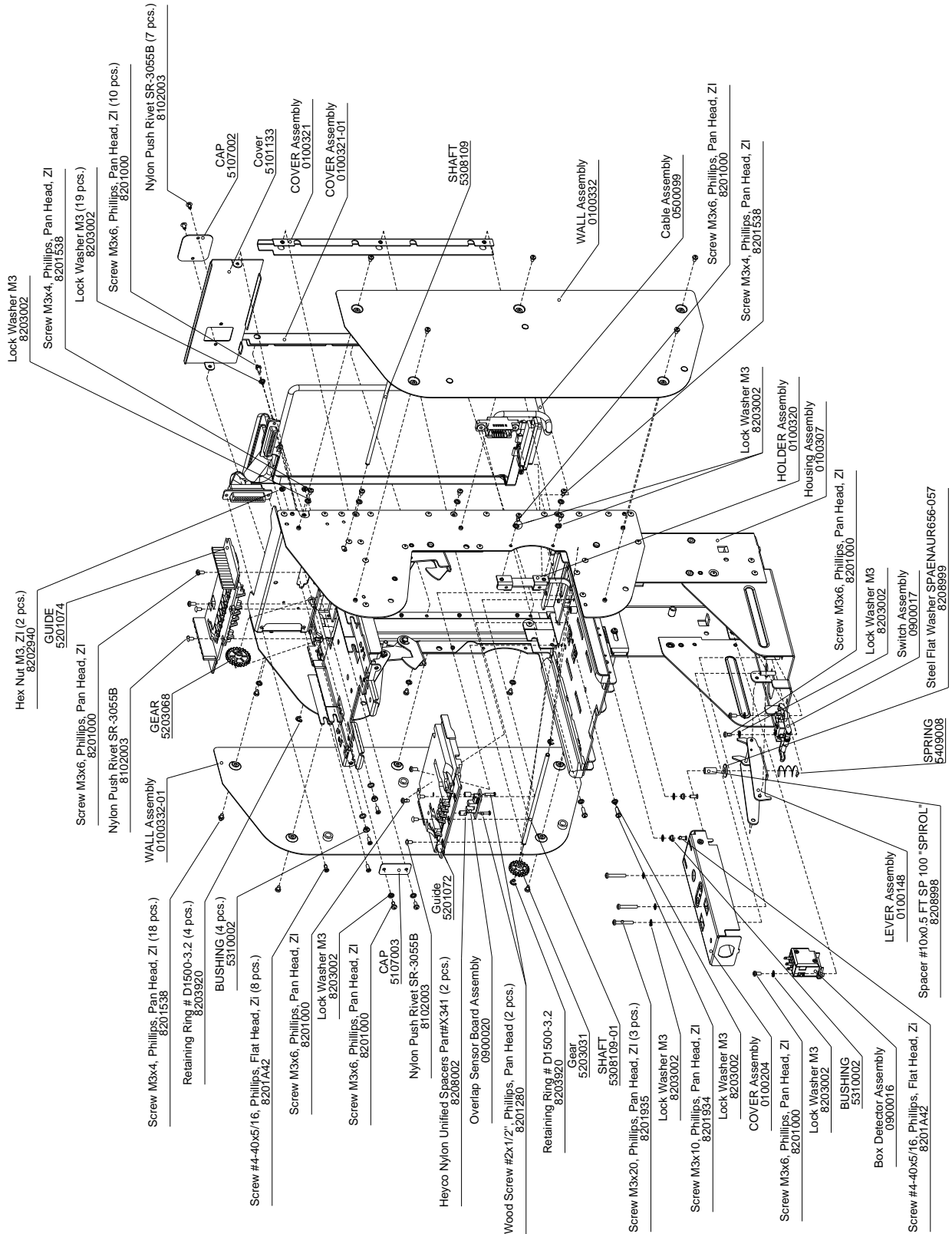


Housing (BBHR3513) – Exploded view



Part ID	Description	Qty.	
0100321-01	Cover Assembly	1	BB01.13.150-01
0100332	Falsepanel Assembly	1	BB01.13.160
0100332-01	Falsepanel Assembly	1	BB01.13.160-01
0100407	Holder GND Assembly	1	BB01.33.000
0100409	Case GND Assembly	1	BB01.34.000
0500099	Cable	1	BB01.17.100
0500167	Cable Assembly	1	BB01.09.100
0900016	Box Detector Assembly	1	FL05.05.000
0900017	Switch Assembly	1	FL05.06.000
0900020	Overlap Sensor Board	1	BB01.17.200
5101133	Cover	1	BB01.10.001
5101239	Bracket	1	BB01.09.001
5107002	Cap	1	BB01.10.003
5110003-04	Washer	4	ST01.14.006-04
5201072	Guide	1	BB01.10.002
5201074	Guide	1	BB01.11.003
5203031	Gear	1	FL04.05.102
5203068	GEAR	1	BB01.22.001
5308109	Shaft	1	BB01.10.006
5308109-01	Shaft	1	BB01.10.006-01
5310002	Bushing	4	FL05.00.012
5409008	Pressure Spring Lock	1	ST01.00.017
8102003	Nylon Push Rivet SR-3055B	7	
8201000	Screw M3x6, Phil., Pan Head, Zinc	12	
8201013	Screw M4x12, Pan Head, Zn	1	
8201280	Wood Screw #2x1/2", PAN, Ph	2	
8201538	Screw M3x4, PAN Head, Ph, Zinc	18	
8201934	Screw M3x10, Phil, Pan Head, Zinc	2	
8201935	Screw M3x20, Phil, Pan Head, Zinc	3	
8201936	Screw #4-40x1/4, Ph, Pan Head	1	
8201A14	Screw M4x6, Ph, Pan Head, Zinc	4	
8201A42	Screw #4-40x5/16"	6	
8203002	Lock Washer M3, Internal teeth	22	
8203067	Lock Washer M4 use 8203003	5	
8203920	Retaining Ring N D1500-3.2	4	
8203927	Flat Washer M3, Zinc	3	
8203985	Flat Washer M4	4	
8207881	Nylon Cable Ties	1	
8208002	Nylon Unified Spacer #X341	2	
8208998	Spacer #10x0.5	1	
8208999	Steel flat washer #656-057	1	

Housing (BBHR3512) – Exploded view



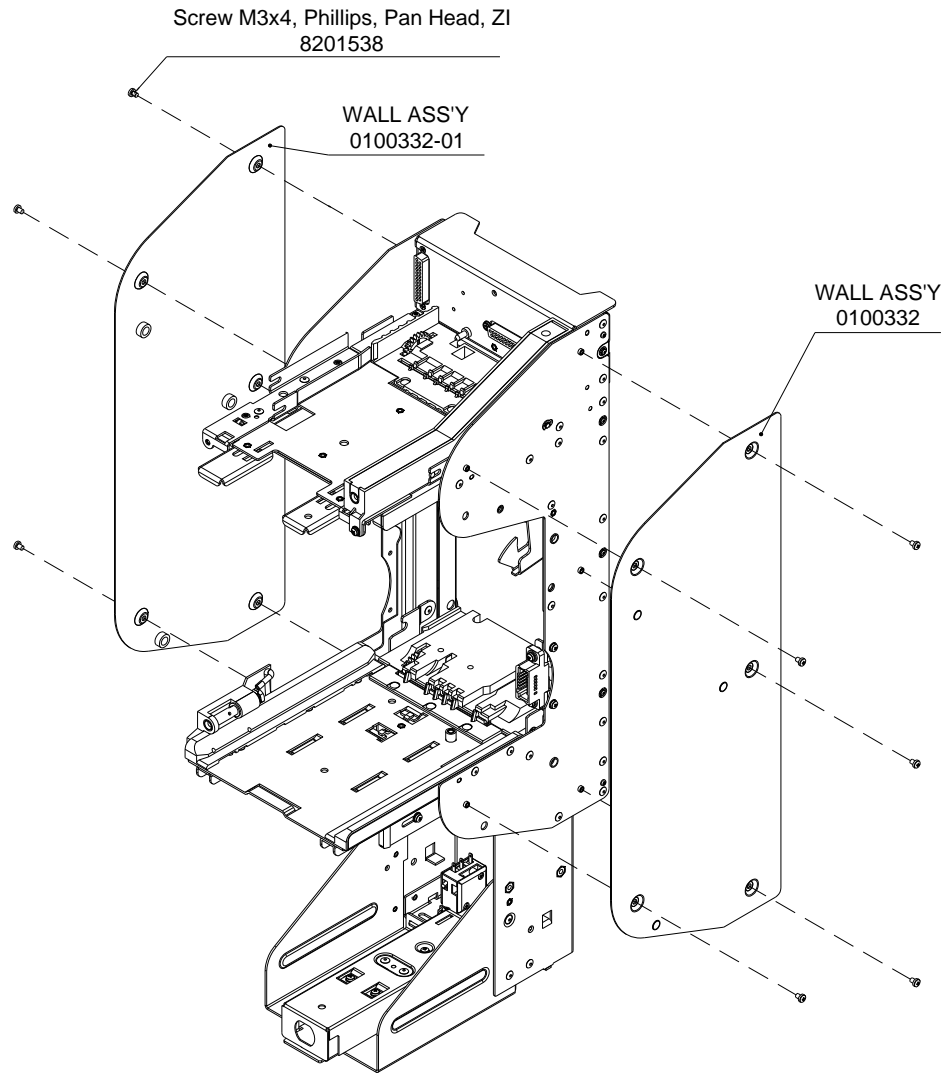
Part ID	Description	Qty.	
0100148	Lever Assembly	1	FL05.08.000
0100204	Cover Assembly	1	FL15.11.000
0100307	Frame Assembly	1	BB01.11.000
0100320	Holder Assembly	1	BB01.13.140
0100321	Cover Assembly	1	BB01.13.150
0100321-01	Cover Assembly	1	BB01.13.150-01
0100332	Falsepanel Assembly	1	BB01.13.160
0100332-01	Falsepanel Assembly	1	BB01.13.160-01
0500099	Cable	1	BB01.17.100
0900016	Box Detector Assembly	1	FL05.05.000
0900017	Switch Assembly	1	FL05.06.000
0900020	Overlap Sensor Board	1	BB01.17.200
5101133	Cover	1	BB01.10.001
5107002	Cap	1	BB01.10.003
5107003	Cap	1	BB01.10.007
5110003-04	Washer	4	ST01.14.006-04
5201072	Guide	1	BB01.10.002
5201074	Guide	1	BB01.11.003
5203031	Gear	1	FL04.05.102
5203068	Gear	1	BB01.22.001
5308109	Shaft	1	BB01.10.006
5308109-01	Shaft	1	BB01.10.006-01
5310002	Bushing	4	FL05.00.012
5409008	Pressure Spring Lock	1	ST01.00.017
8102003	Nylon Push Rivet SR-3055B	7	
8201000	Screw M3x6, Phil., Pan Head, Zinc	12	
8201280	Wood Screw #2x1/2", PAN, Ph	2	
8201538	Screw M3x4, PAN Head, Ph, Zinc	18	
8201934	Screw M3x10, Phil, Pan Head, Zinc	2	
8201935	Screw M3x20, Phil, Pan Head, Zinc	3	
8201A42	Screw #4-40x5/16"	6	
8202940	Hex Nut M3, Zinc	1	
8203002	Lock Washer M3, Internal teeth	21	
8203920	Retaining Ring N D1500-3.2	4	
8208002	Nylon Unified Spacer #X341	2	
8208998	Spacer #10x0.5	1	
8208999	Steel flat washer #656-057	1	

Disassembly

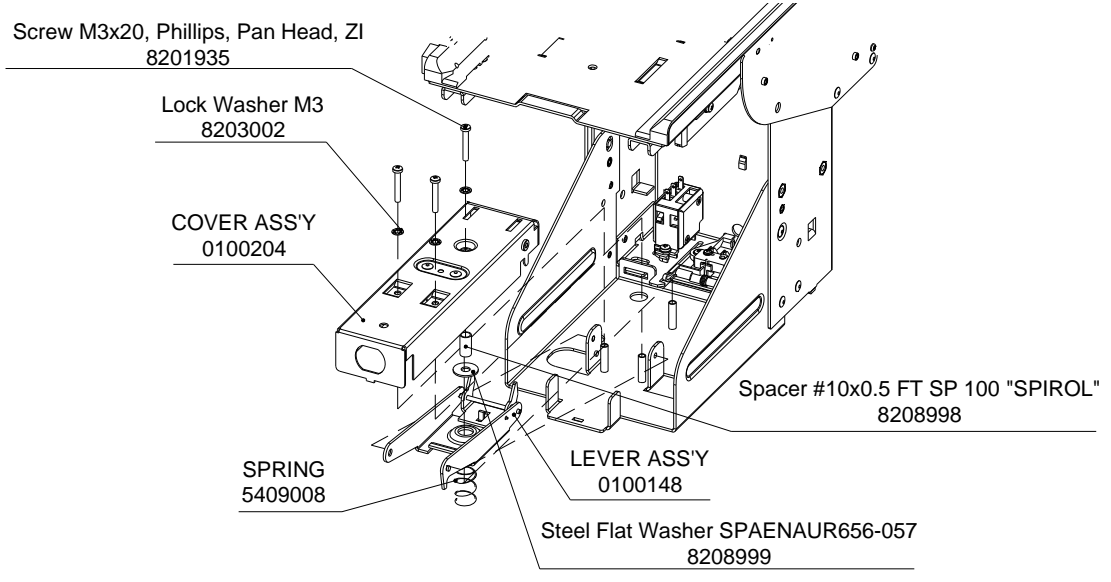
Tools required:

- Philips screwdriver #1

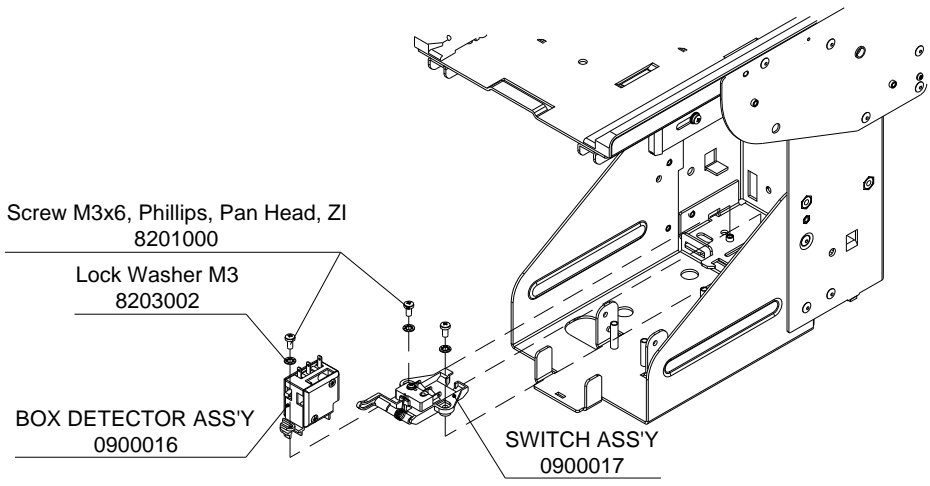
Step 1



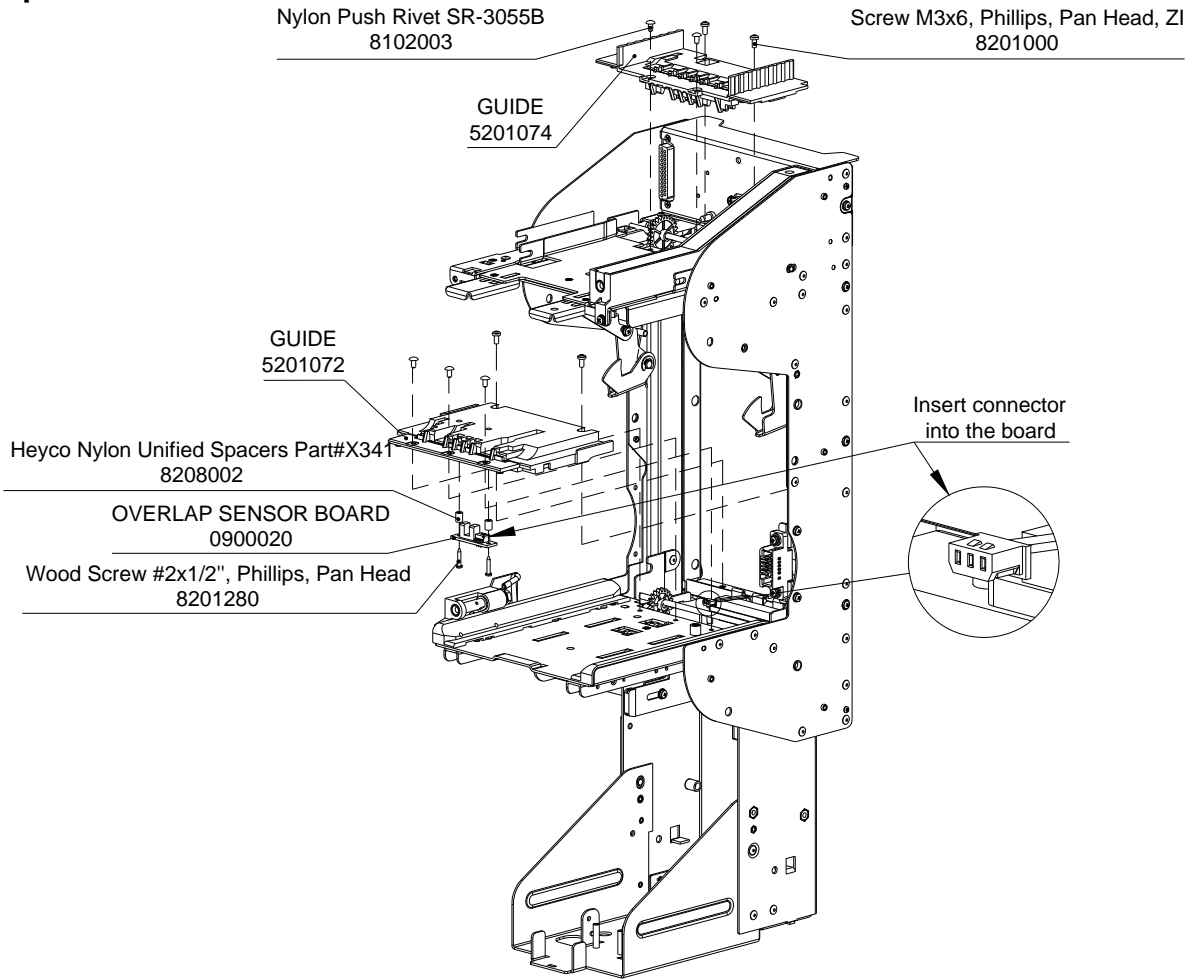
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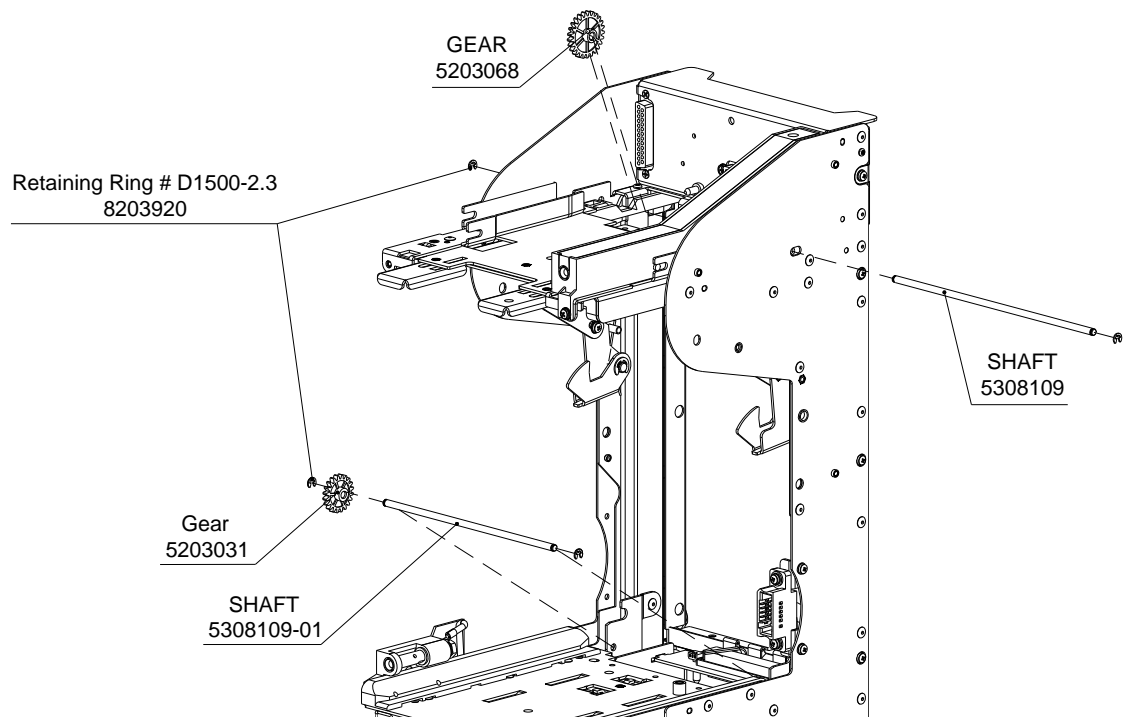
Step 3



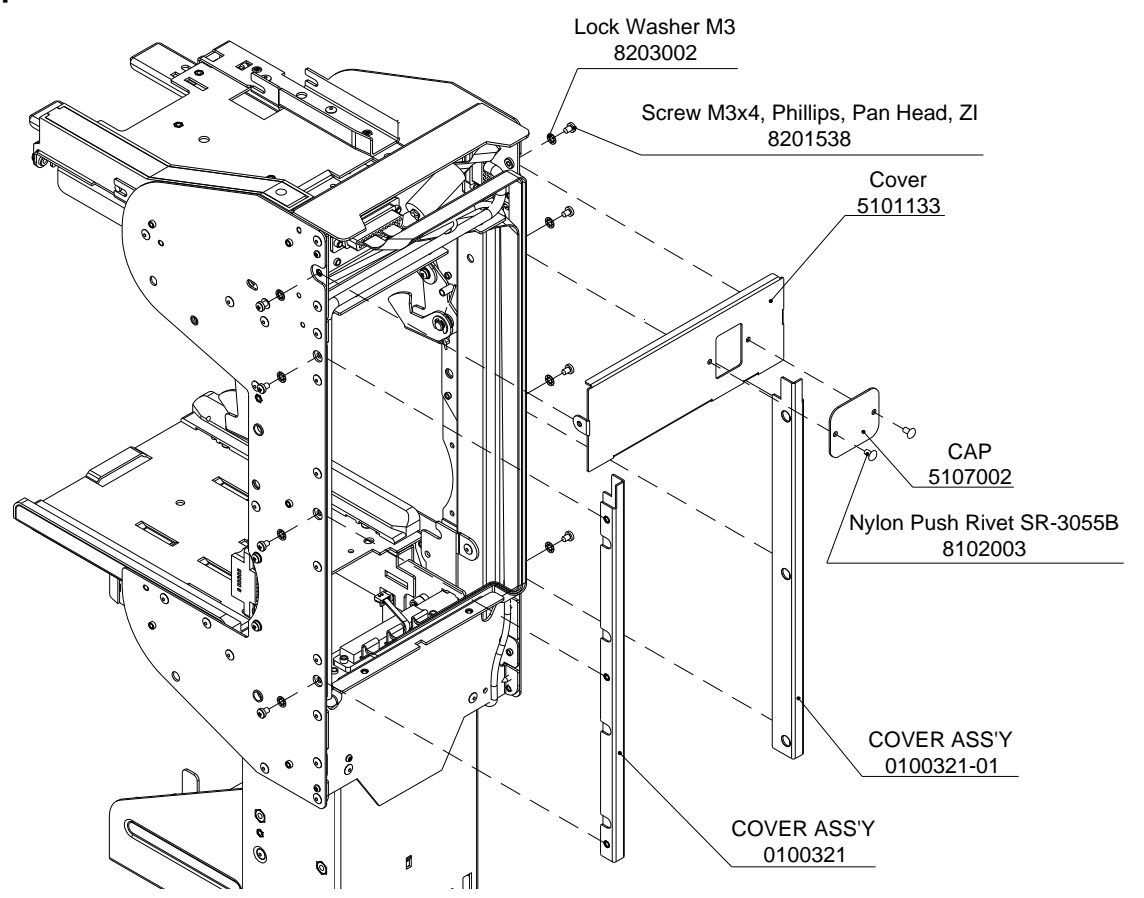
Step 4



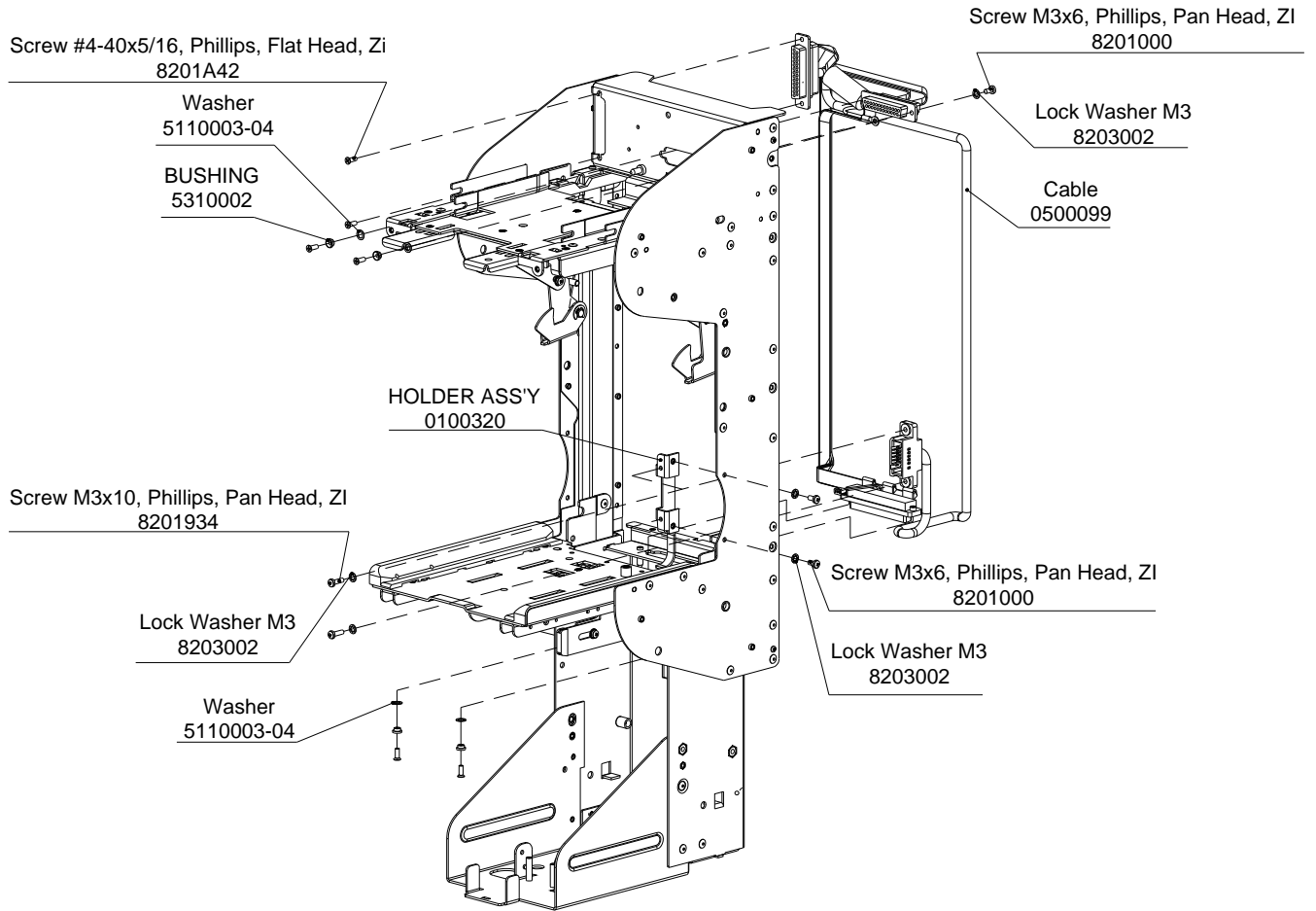
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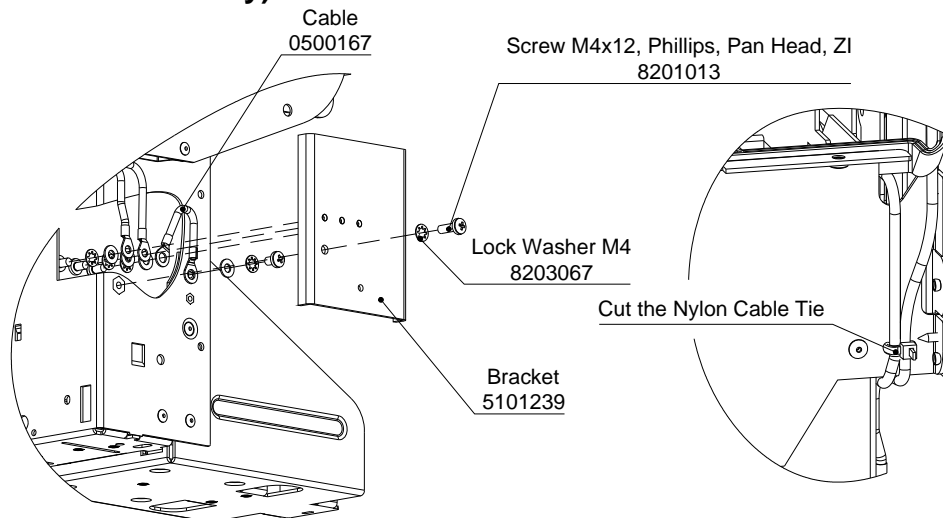
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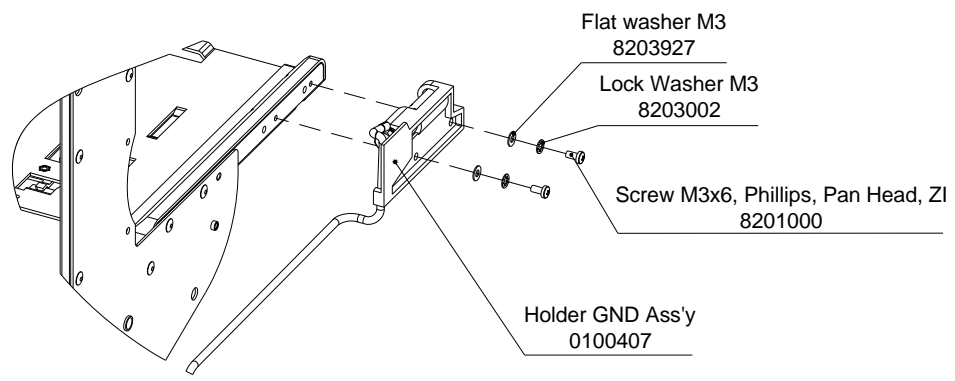
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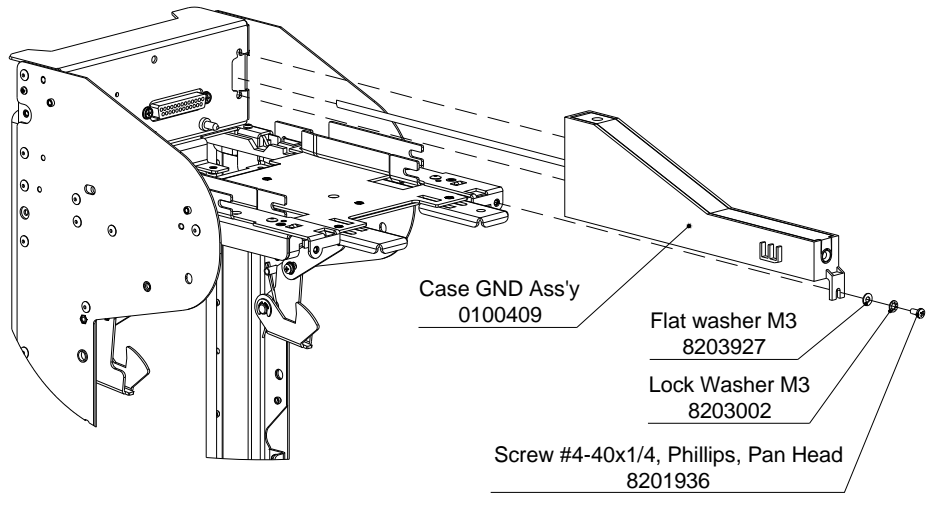
Step 8 (for BBHR3513 only)



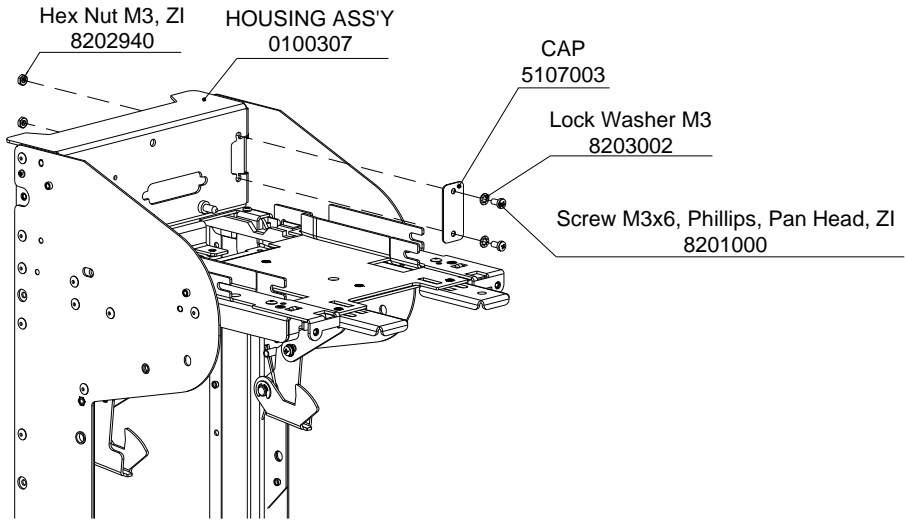
Step 9 (for BBHR3513 only)



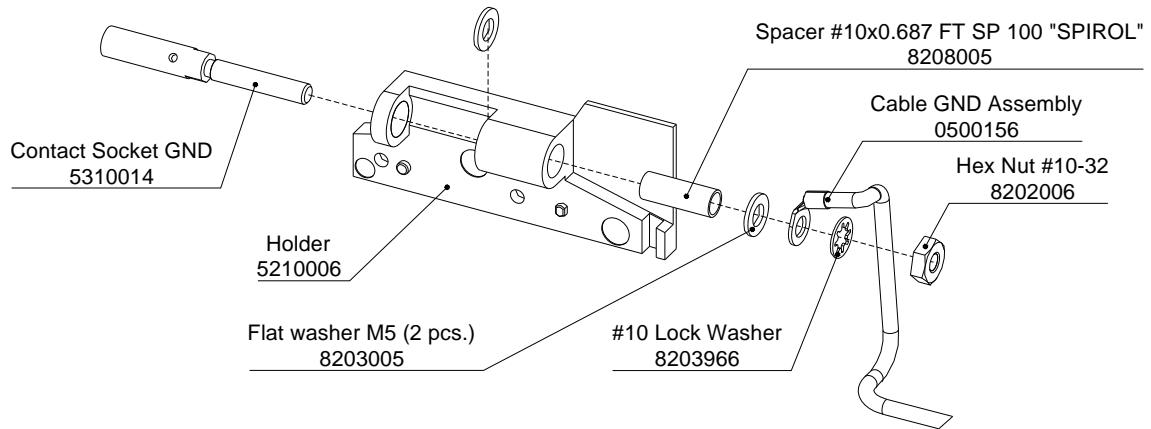
Step 10 (for BBHR3513 only)



Step 11 (for BBHR3512 only)



Holder GND (0100407) – Exploded view



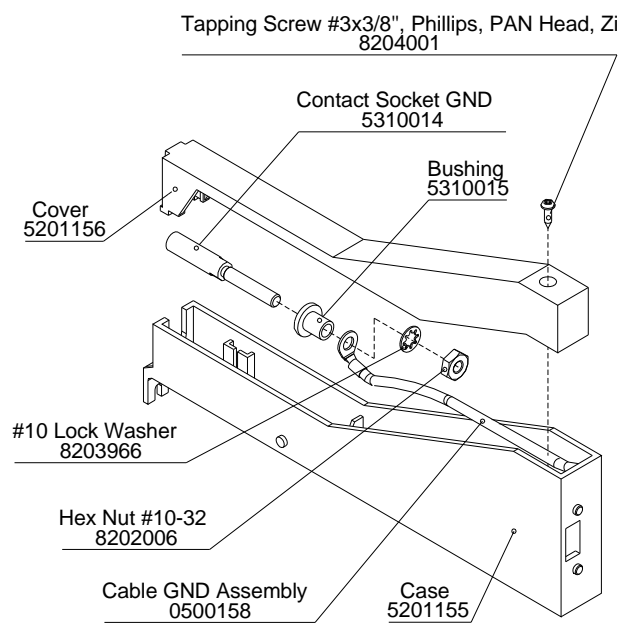
Part ID	Description	Qty.	
0500156	Cable Assembly	1	BB01.33.100
5210006	Holder	1	BB01.33.001
5310014	Contact GND	1	BB01.33.002
8202006	Hex Nut #10-32	1	
8203005	Flat Washer M5, Plain, Zink	2	
8203966	Lock washer #10(M5), Int tooth	1	
8208005	Spacer #10x11/16	1	

Disassembly

Tools required:

- Wrench
- Tweezers

Case GND (0100409) – Exploded view



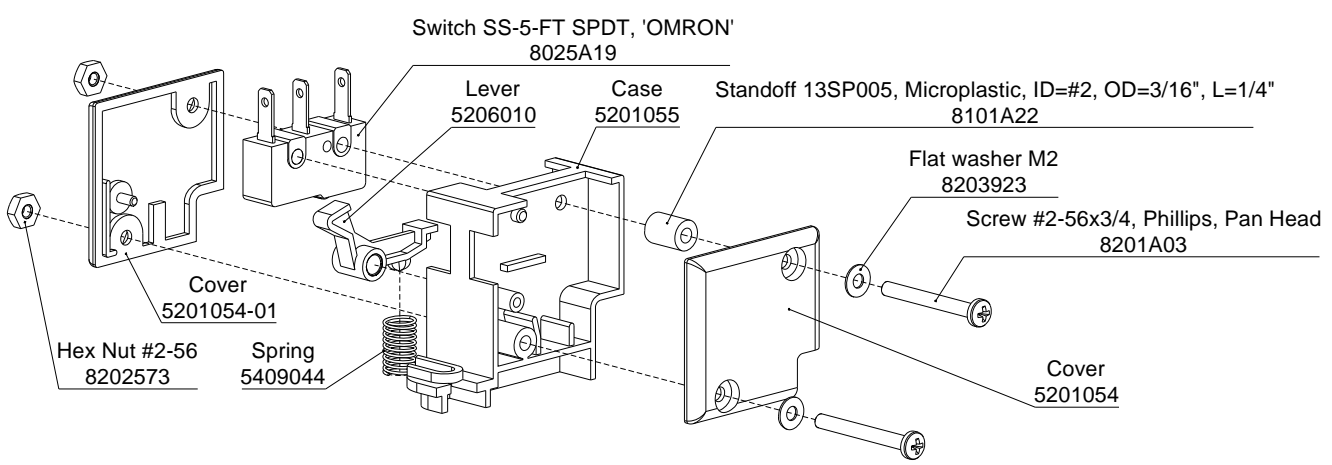
Part ID	Description	Qty.
0500158	Cable GND Assembly	1
5201155	Case	1
5201156	Cover	1
5310014	Contact GND	1
5310015	Bushing	1
8202006	Hex Nut #10-32	1
8203966	Lock washer #10(M5), Int tooth	1
8204001	Tapping Screw #3x3/8", Ph, Zi	1

Disassembly

Tools required:

- Philips screwdriver #1
- Wrench
- Tweezers

Box Detector (0900016) – Exploded view



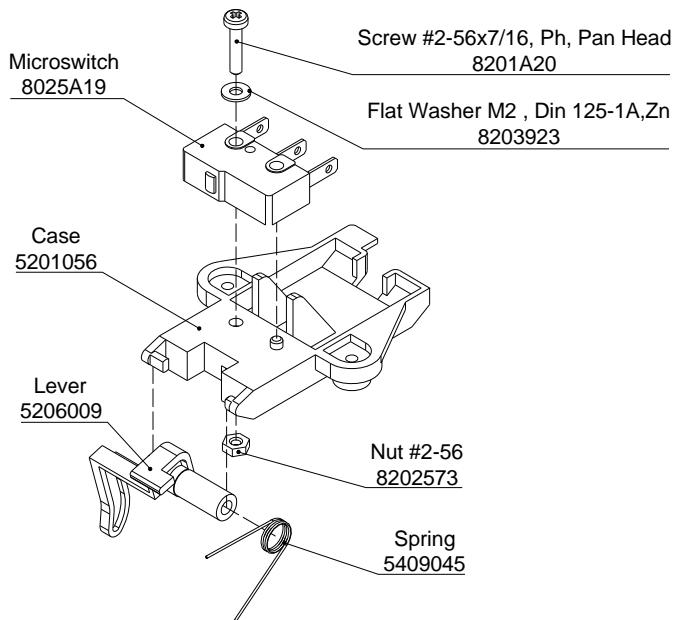
Part ID	Description	Qty.
5201054	Cover	1
5201054-01	Cover	1

FL05.05.002
FL05.05.002-01

5201055	Case	1	FL05.05.001
5206010	Lever	1	FL05.05.003
5409044	Spring	1	FL05.05.004
8025A19	Microswitch	1	1400
8101A22	Standoff 13SP005, Microplastic	1	8101A22
8201A03	Screw #2-56x3/4	2	8201A03
8202573	Nut #2-56	2	8202573
8203923	Flat Washer M2 , Din 125-1A,Zn	2	8203923

Disassembly

Switch (0900017) – Exploded view



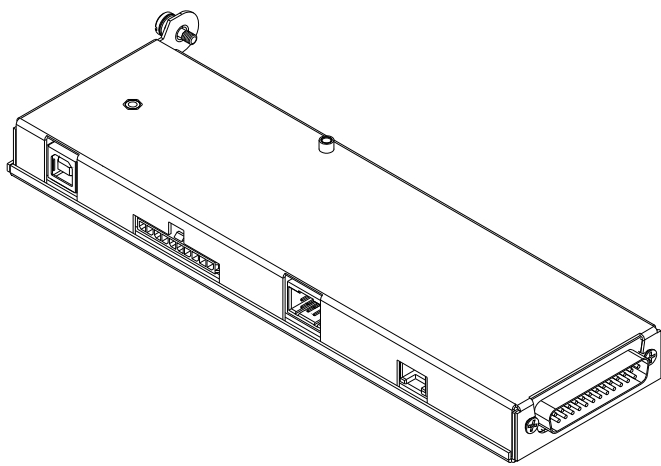
Part ID	Description	Qty.
5201056	Case	1
5206009	Lever	1
5409045	Spring	1
8025A19	Microswitch	1
8201A20	Screw #2-56x7/16, Ph, Pan Head	1
8202573	Nut #2-56	1
8203923	Flat Washer M2 , Din 125-1A,Zn	1

Disassembly

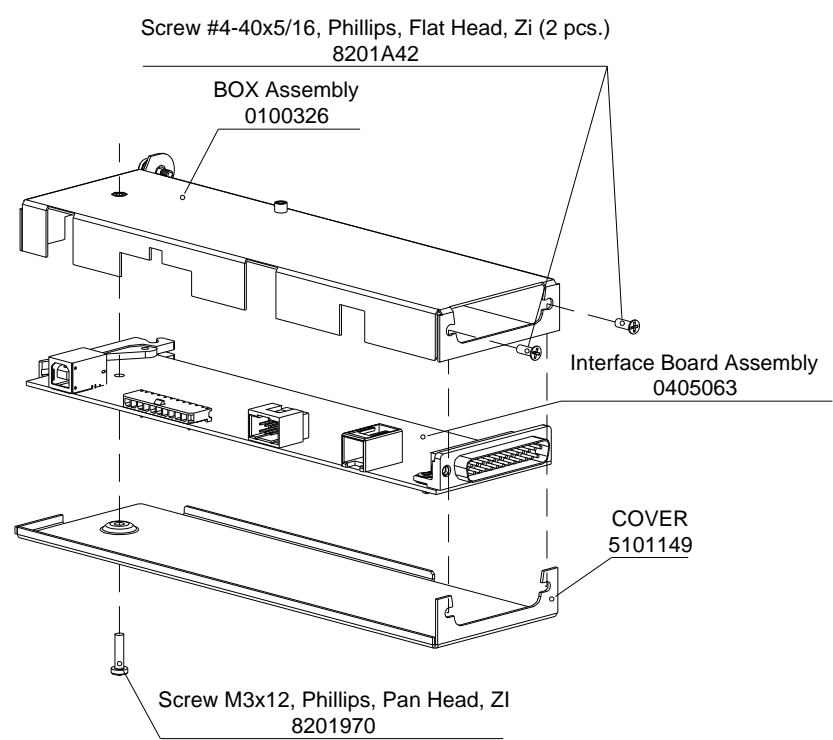
Tools required:

- Philips screwdriver #1
- Tweezers

B2B POWER INTERFACE MODULE



B2B Power Interface Module (BBPR5713) – Exploded view



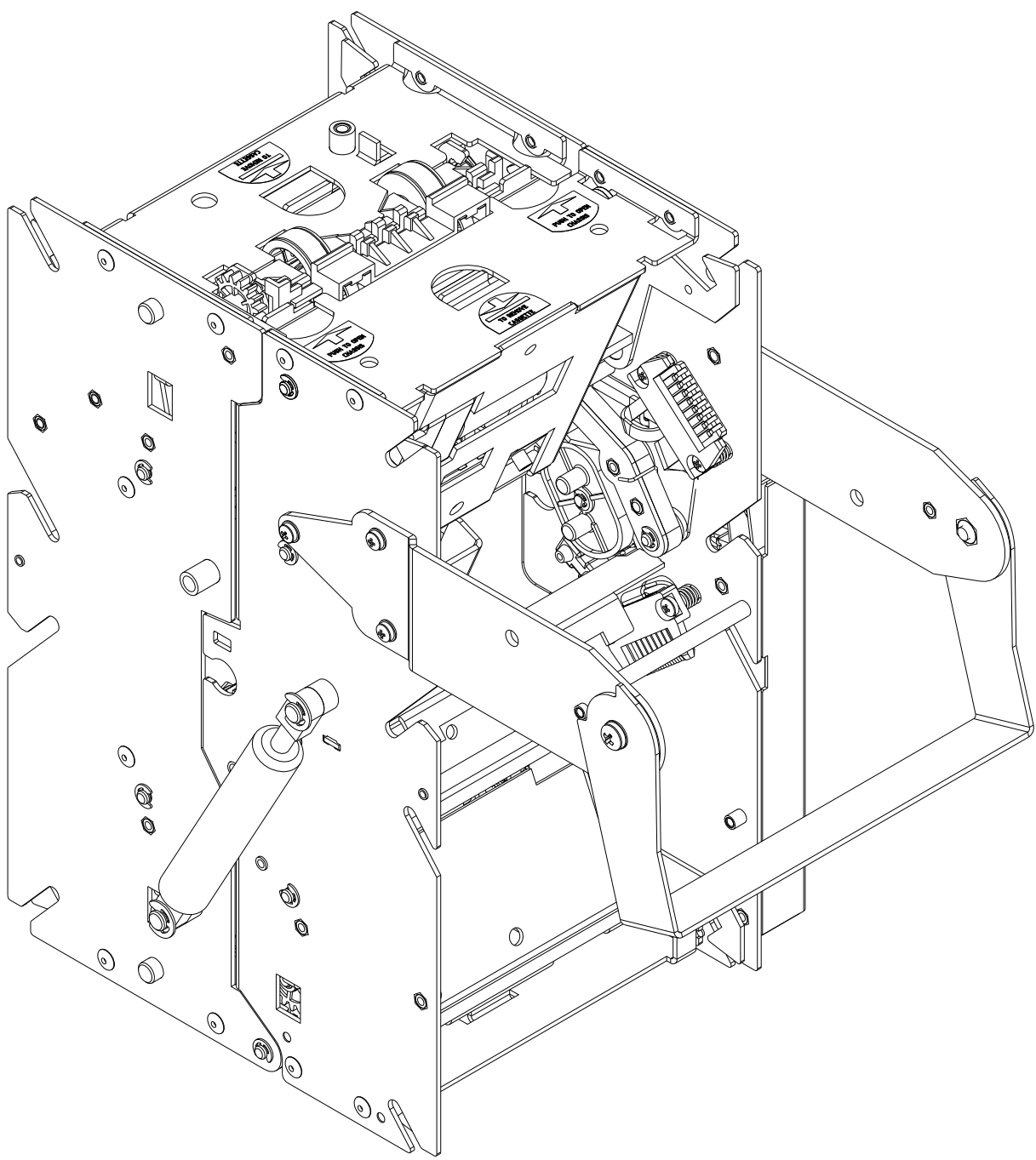
Part ID	Description	Qty.	
0100326	Box Assembly	1	BB01.31.000
0405063	Interface Board	1	BB01.54.310
5101149	Cover	1	BB01.30.001
8201970	Screw M3x12, Phil, Pan Head, Zinc	1	
8201A42	Screw #4-40x5/16"	2	

Disassembly

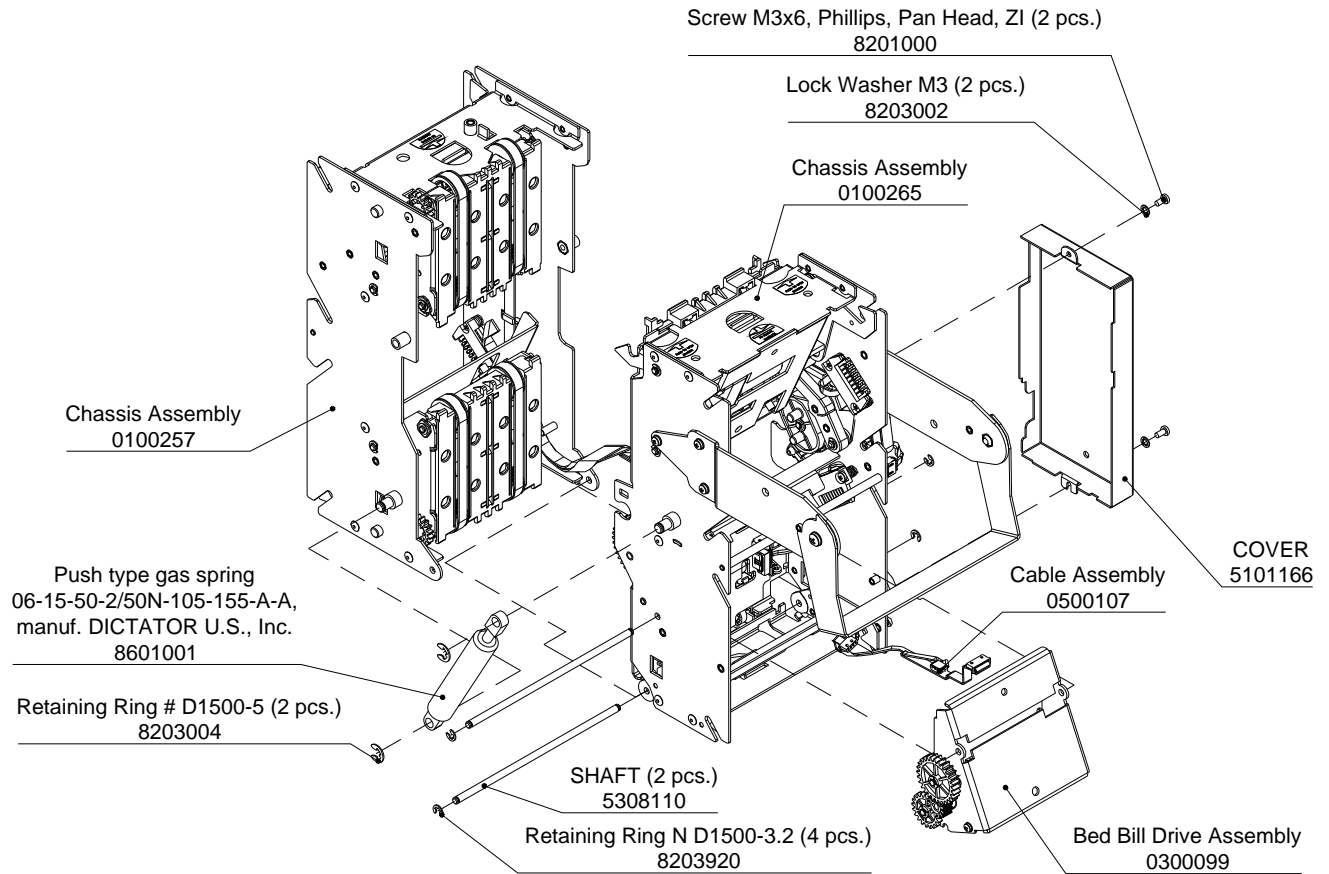
Tools required:

- Philips screwdriver #1

CHASSIS



Chassis (BBCR0110) – Exploded view



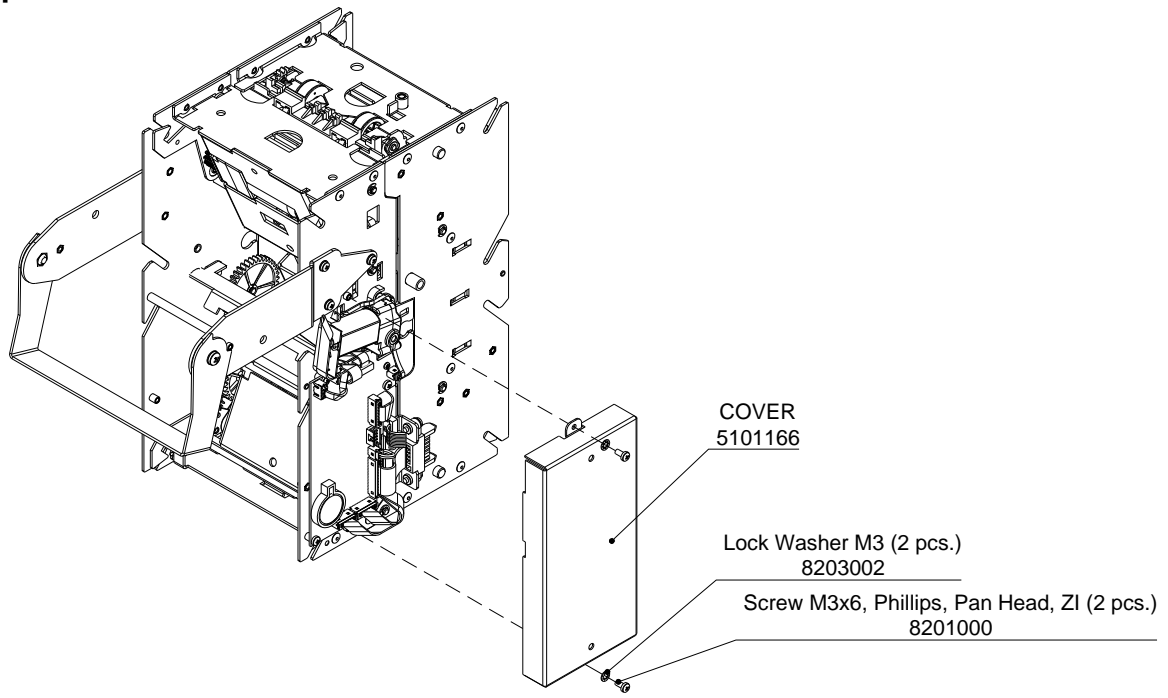
Part ID	Description	Qty.	
0100257	Chassis Assembly	1	BB01.22.000
0100265	Chassis Assembly	1	BB01.21.000
0300099	Bed Bill Drive Assembly	1	BB01.24.000
0500107	Cable Assembly	1	BB01.27.260
5101166	Cover	1	BB01.20.004
5308110	Shaft	2	BB01.21.003
8201000	Screw M3x6, Phil., Pan Head, Zinc	2	8201000
8203002	Lock Washer M3, Internal teeth	2	8203002
8203004	Retaining Ring #D1500-5.0	2	8203004
8203920	Retaining Ring N D1500-3.2	4	8203920
8601001	Gas Spring	1	8601001

Disassembly

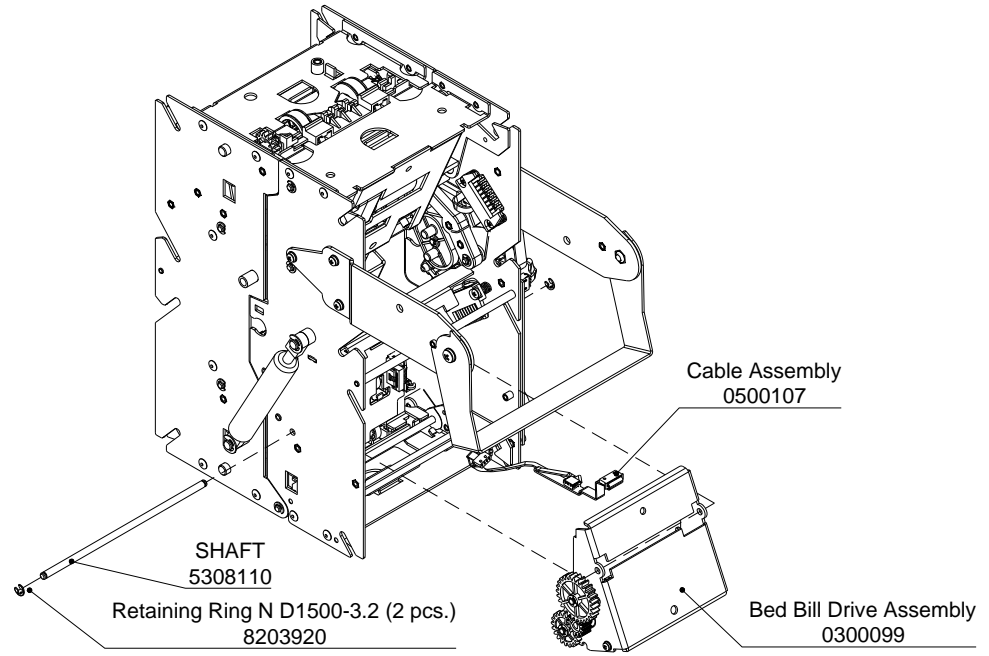
Tools required:

- Flat screwdriver
- Philips screwdriver #1
- Tweezers

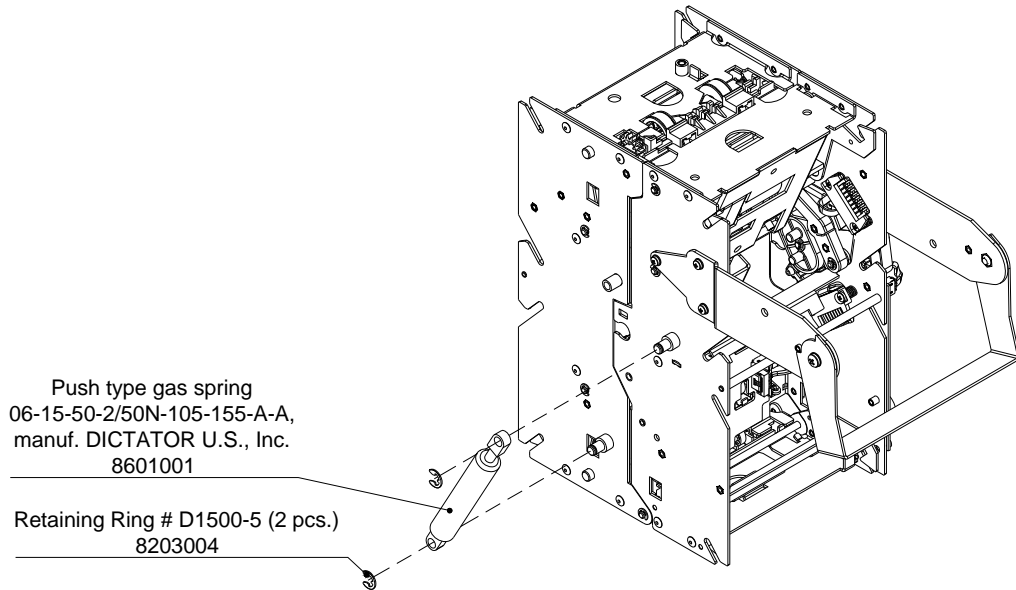
Step 1



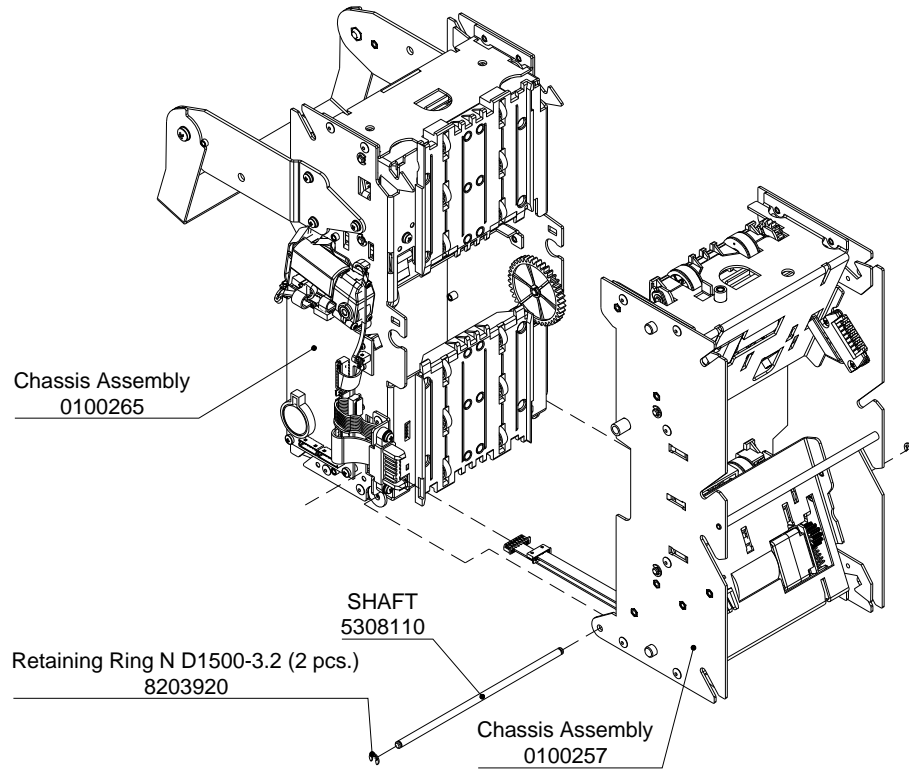
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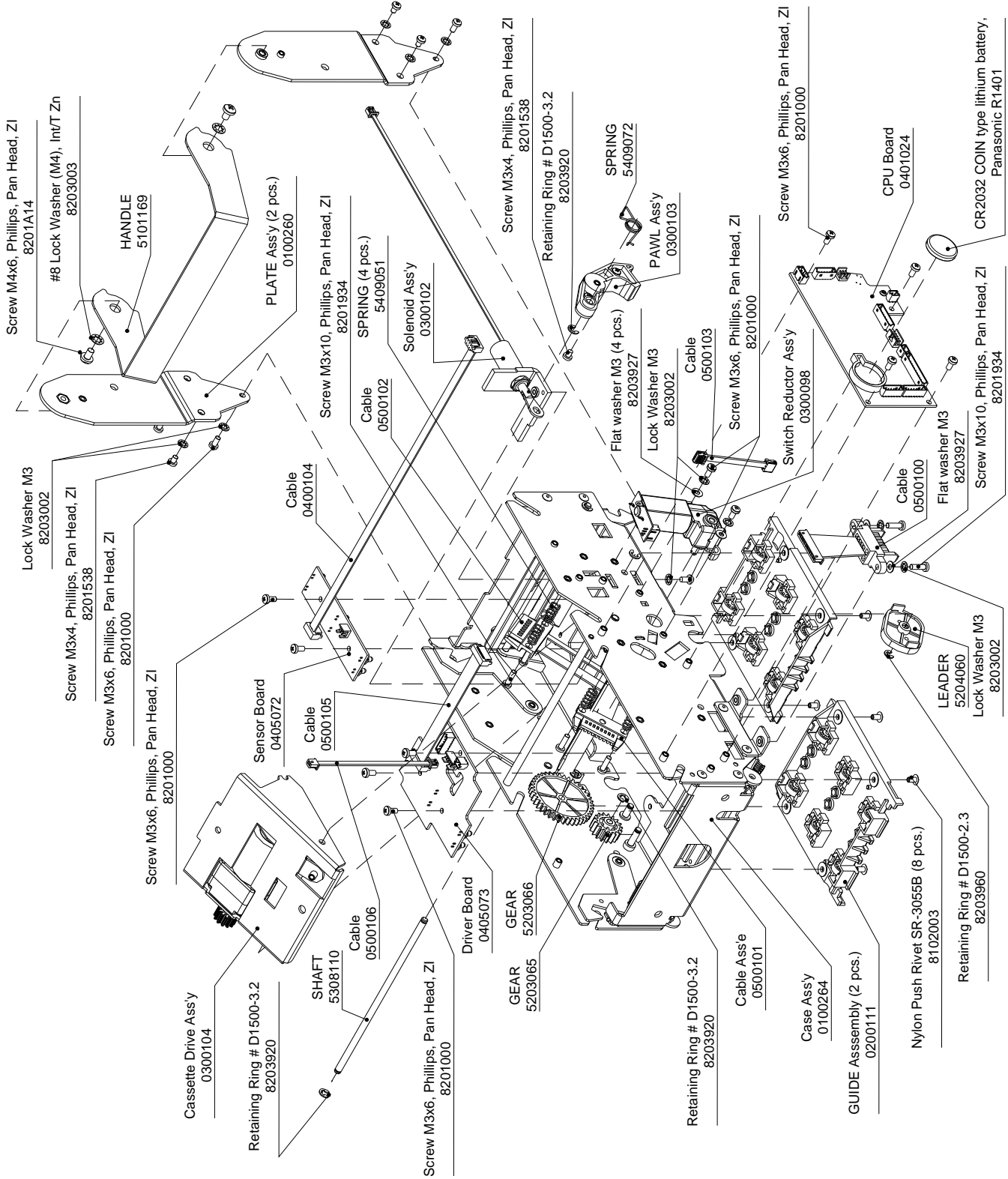
Step 3



Step 4



Chassis (0100265) – Exploded view



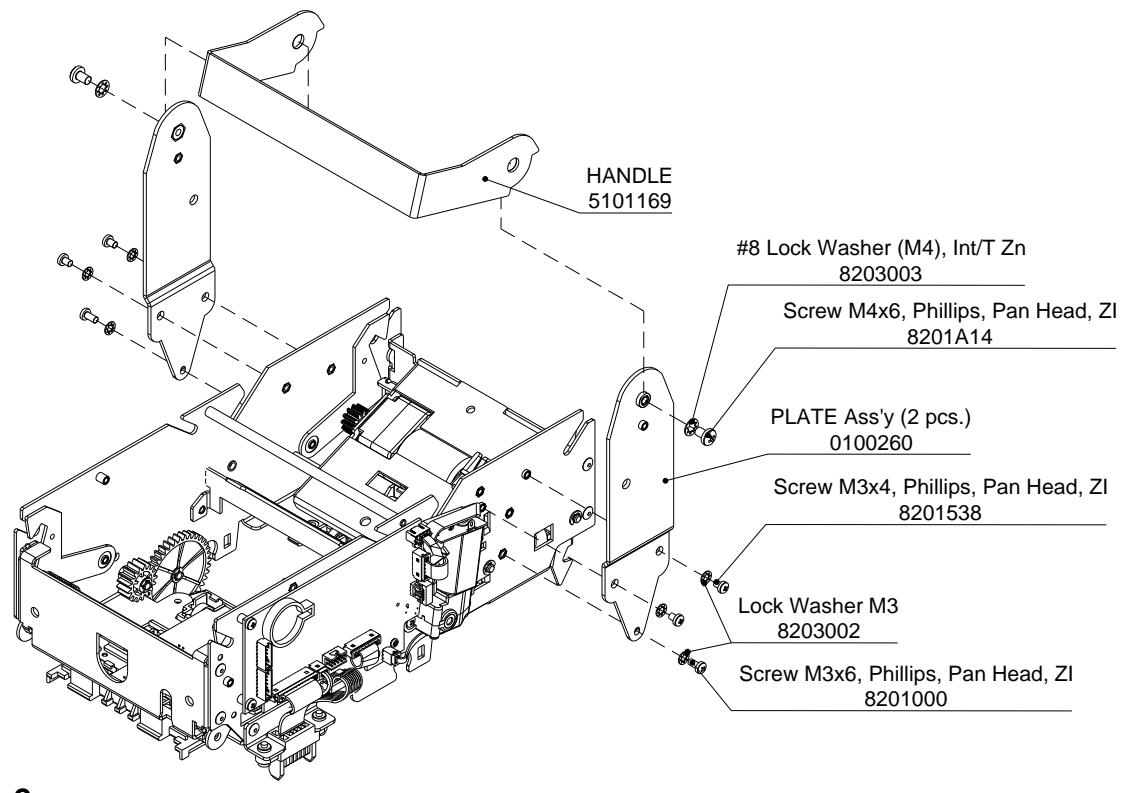
Part ID	Description	Qty.	
0100260	Plate Assembly	2	BB01.21.400
0100264	Case Assembly	1	BB01.21.100
0200111	Guide Assembly	2	BB01.21.300
0300098	Switch Reductor Assembly	1	BB01.28.000
0300102	Solenoid Assembly	1	BB01.21.950
0300103	Pawl Assembly	1	BB01.21.900
0300104	Cassette Drive Assembly	1	BB01.21.200
0401024-01	BB01 CPU Board	1	BB01.20.300-01
0405072	Sensor Board	1	BB01.21.600
0405073	Driver Board	1	BB01.21.500
0500100	Cable Assembly	1	BB01.27.100
0500101	Cable Assembly	1	BB01.27.200
0500102	Cable Assembly	1	BB01.27.210
0500103	Cable Assembly	1	BB01.27.220
0500104	Cable Assembly	1	BB01.27.230
0500105	Cable Assembly	1	BB01.27.240
0500106	Cable Assembly	1	BB01.27.250
5101169	Handle	1	BB01.20.021
5203065	Gear	1	BB01.23.014
5203066	Gear	1	BB01.23.015
5204060	Leader	1	BB01.23.001
5308110	Shaft	1	BB01.21.003
5409051	Spring	4	BB01.50.010
5409072	Spring	1	BB01.21.906
8102003	Nylon Push Rivet SR-3055B	8	8102003
8201000	Screw M3x6, Phil., Pan Head, Zinc	14	8201000
8201538	Screw M3x4, PAN Head, Ph, Zinc	5	8201538
8201934	Screw M3x10, Phil, Pan Head, Zinc	6	8201934
8201A14	Screw M4x6, Ph, Pan Head, Zinc	2	8201A14
8203002	Lock Washer M3, Internal teeth	11	8203002
8203003	#8 Lock Washer (M4), Int/T Zn	2	8203003
8203920	Retaining Ring N D1500-3.2	5	8203920
8203927	Flat Washer M3, Zinc	4	8203927
8203960	Retaining Ring #D1500-2.3	1	8203960
R1401	Lithium Memory Back-up Battery	1	R1401

Disassembly

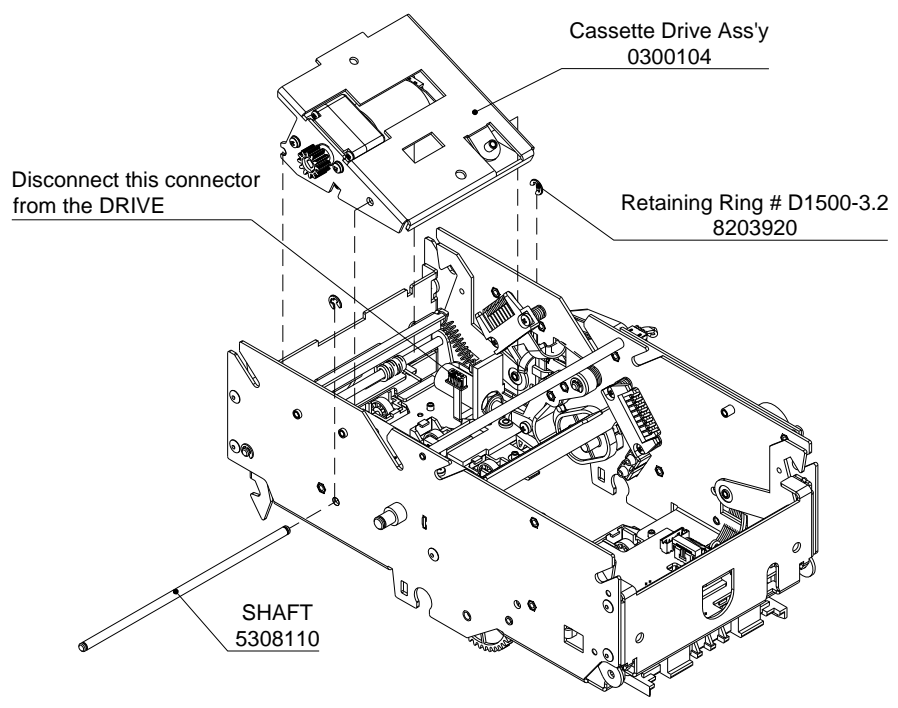
Tools required:

- Flat screwdriver
- Philips screwdriver #1

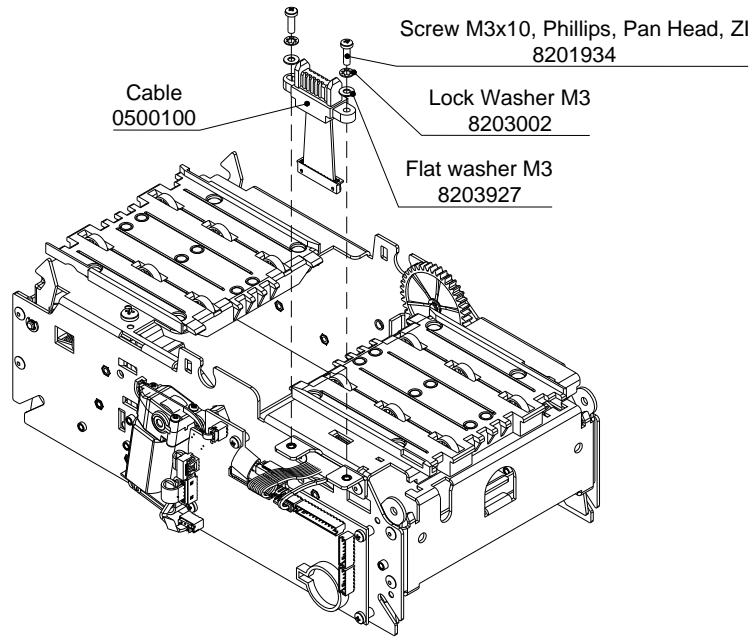
Step 1



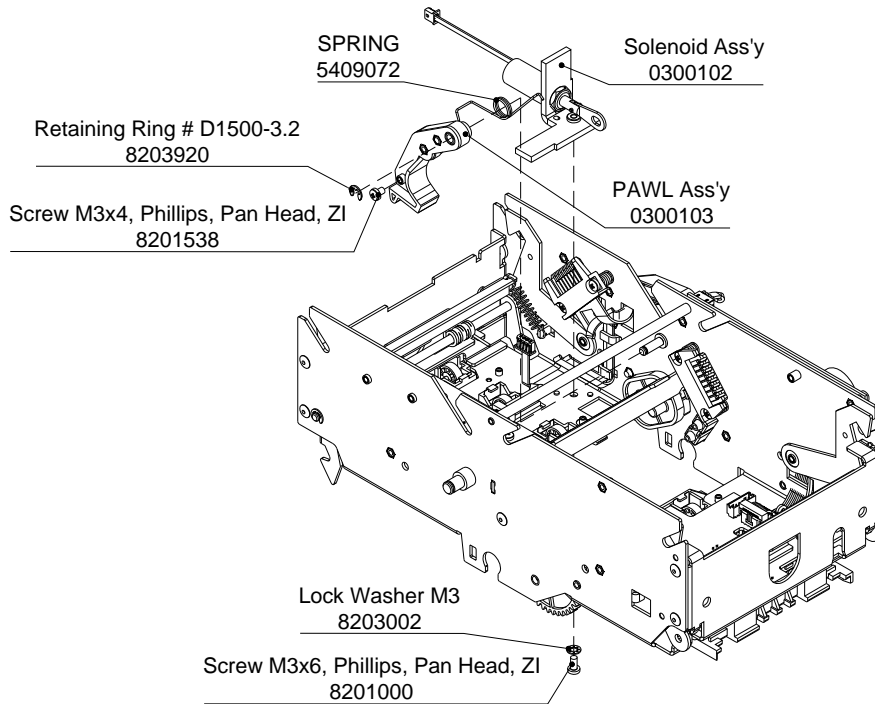
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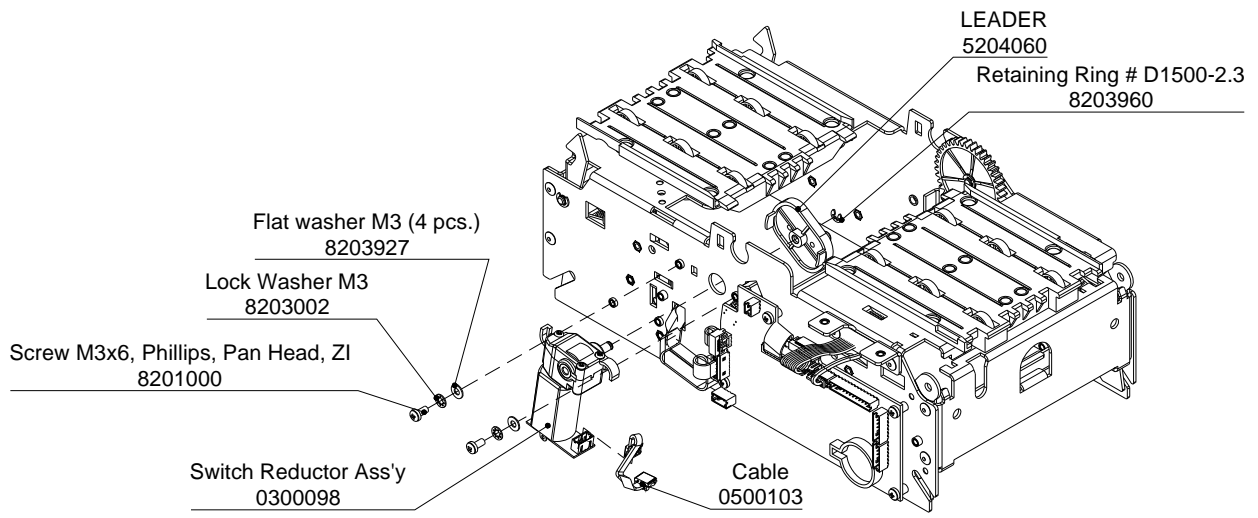
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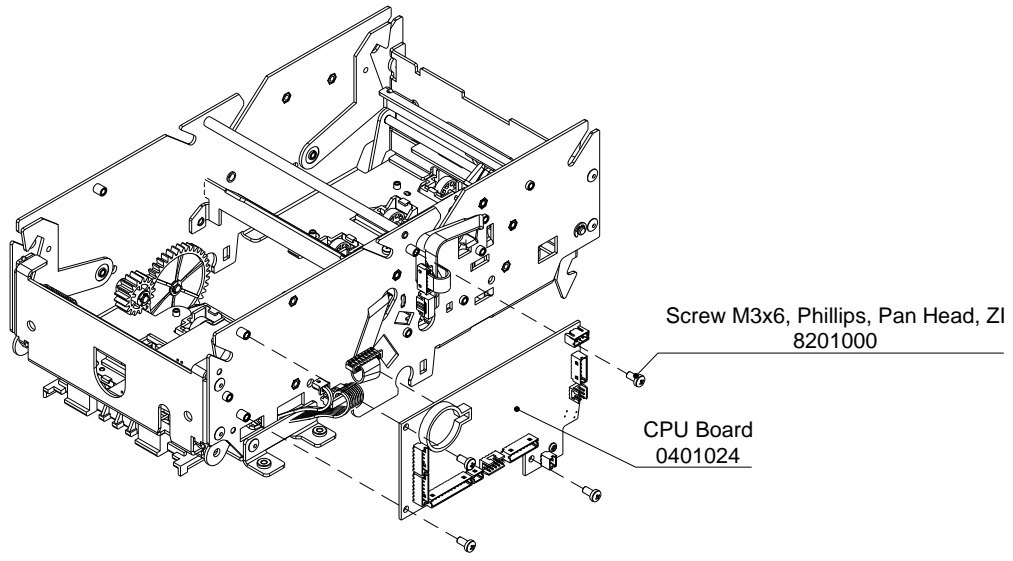
Step 4



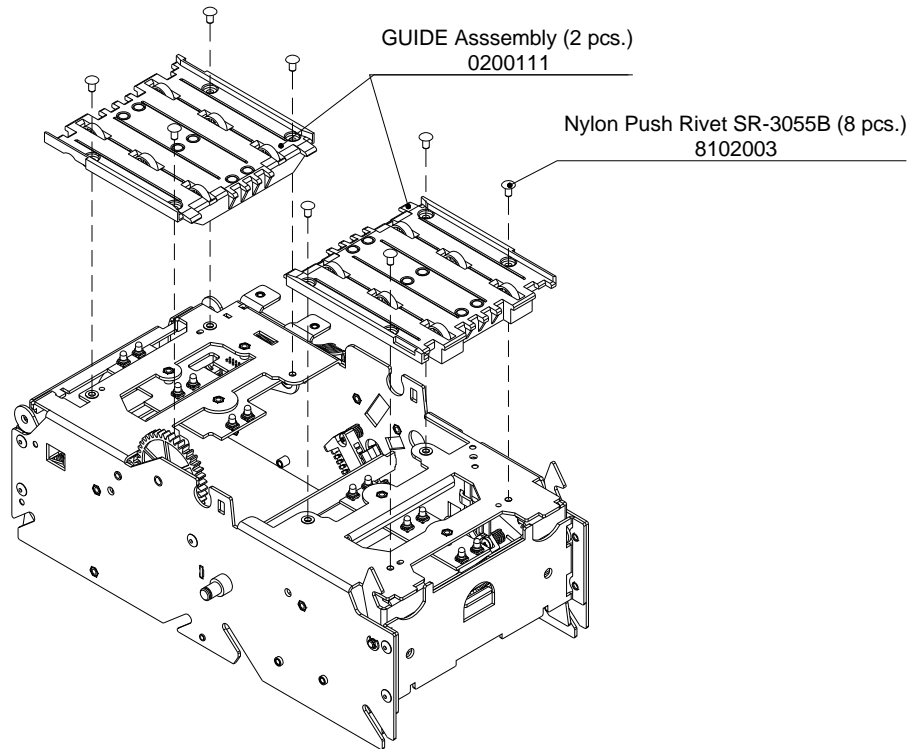
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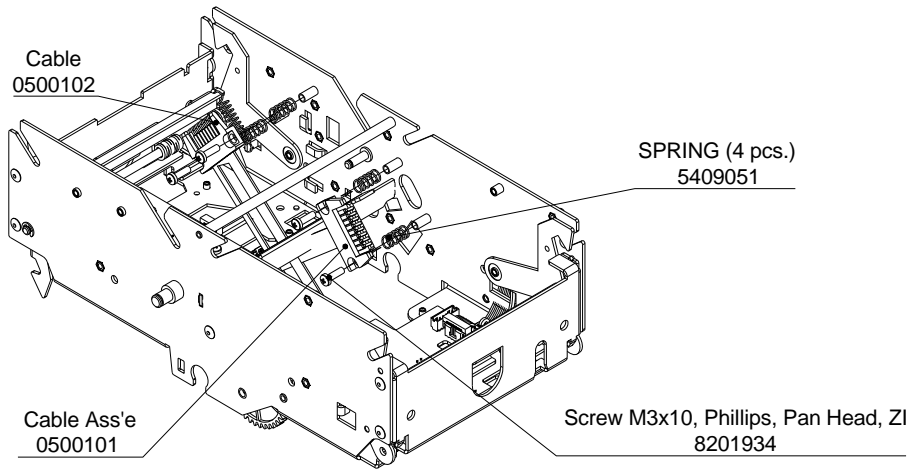
Step 6



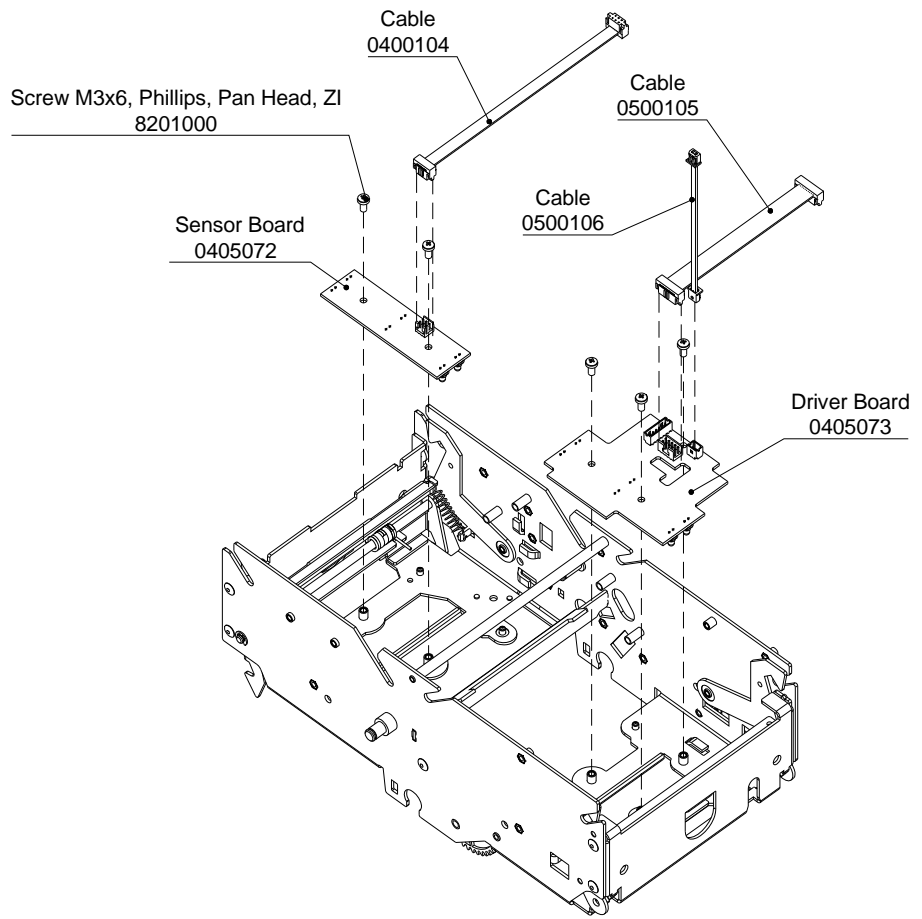
Step 7



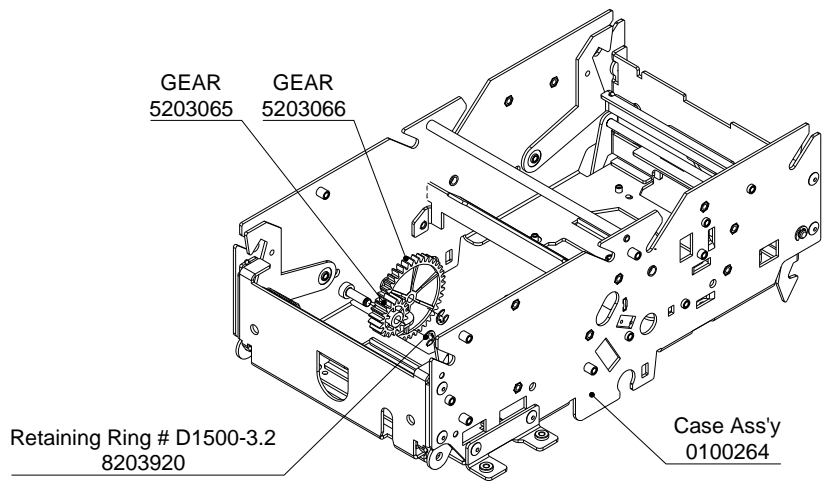
Step 8



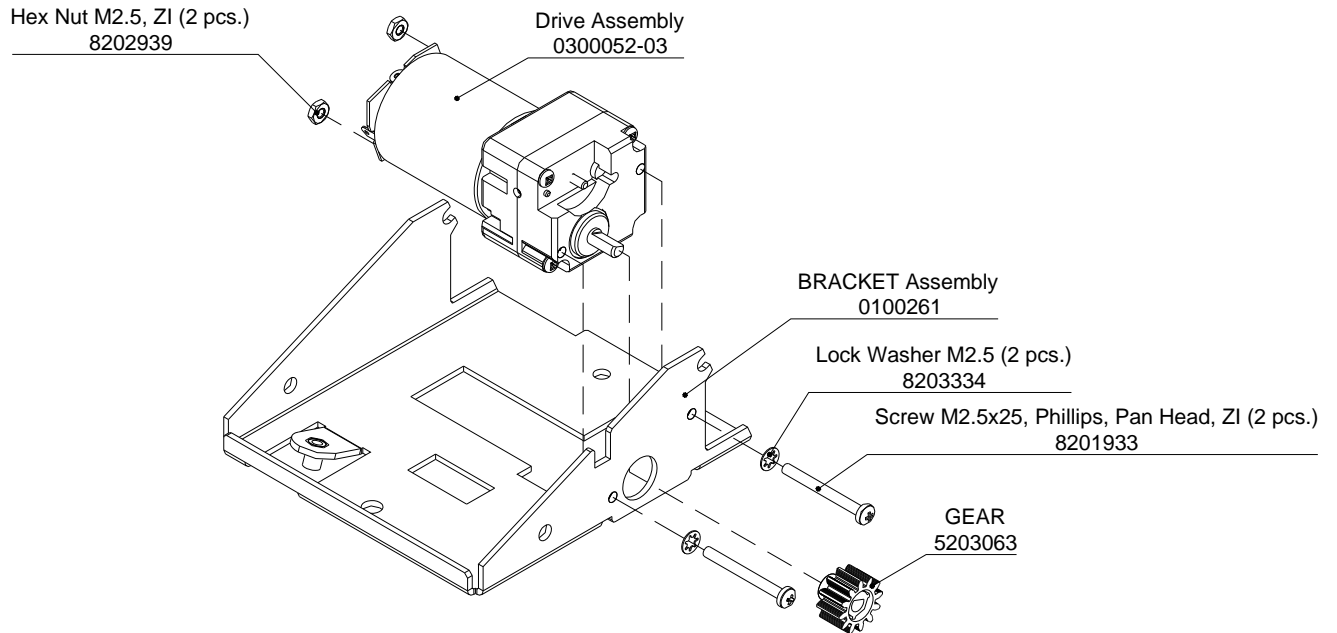
Step 9



Step 10



Cassette Drive (0300104) – Exploded view



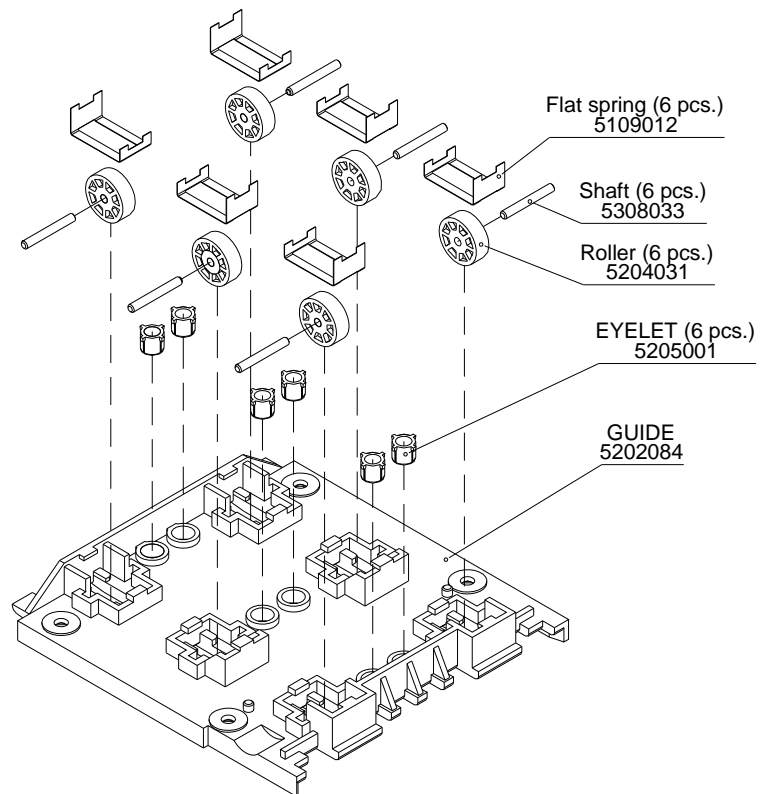
Part ID	Description	Qty.	
0100261	Bracket Assembly	1	BB01.21.210
0300052-03	Drive Assembly	1	FL04.20.000-03
5203063	Gear	1	BB01.77.003
8201933	Screw M2.5x25, Phil, Pan Head, Zi	2	8201933
8202939	Hex Nut M2.5, Zinc	2	8202939
8203334	Lock Washer M2.5, Int.Teeth, Zn	2	8203334

Disassembly

Tools required:

- Philips screwdriver #1

Guide (0200111) – Exploded view

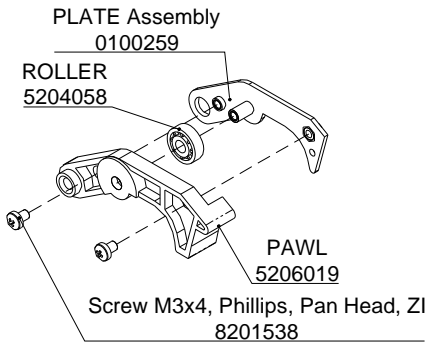


Part ID	Description	Qty.	
5109012	Flat Spring	6	SM01.00.026
5202084	Guide	1	BB01.21.301
5204031	Roller	6	SM01.00.025
5205001	Eyelet (Lens, 4 Tabs)	6	BV01.00.019
5308033	Shaft	6	SM01.00.024

Disassembly

Tools required:
- Tweezers

Pawl (0300103) – Exploded view



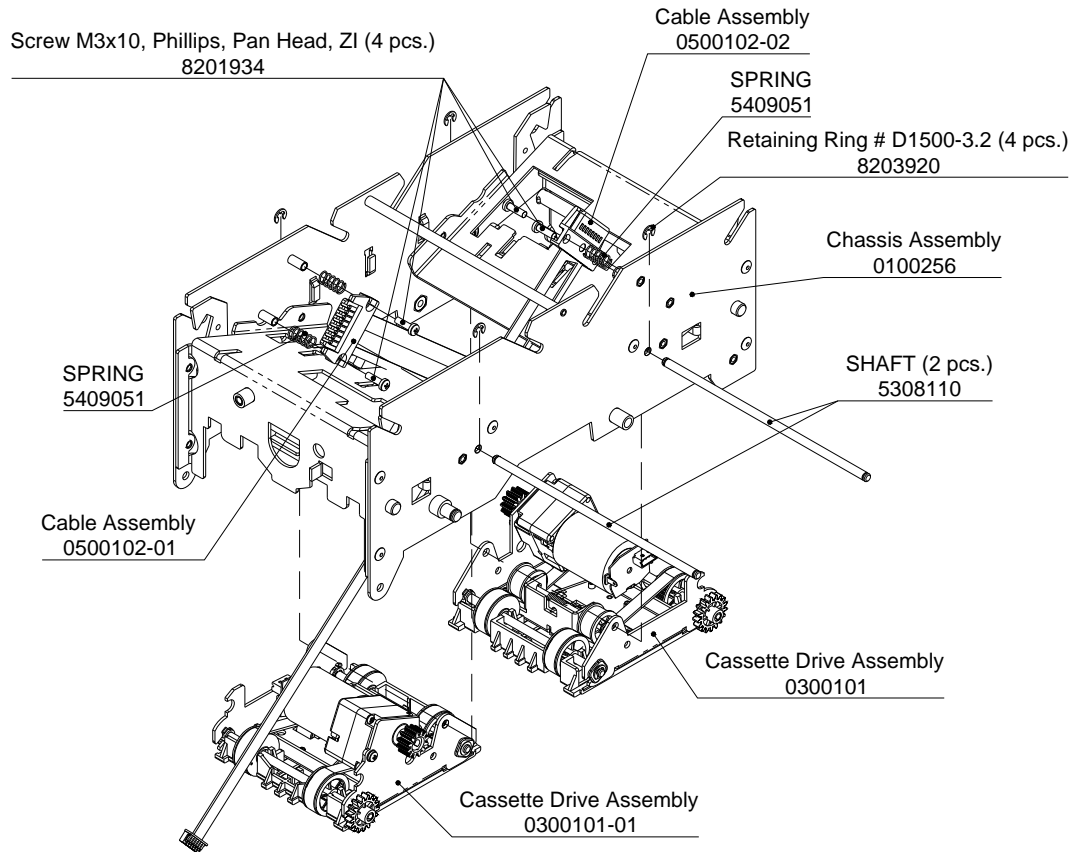
Part ID	Description	Qty.	
0100259	Plate Assembly	1	BB01.21.910
5204058	Roller	1	BB01.21.907
5206019	Pawl	1	BB01.21.901
8201538	Screw M3x4, PAN Head, Ph, Zinc	2	8201538

Disassembly

Tools required:

- Philips screwdriver #1

Chassis (0100257) – Exploded view



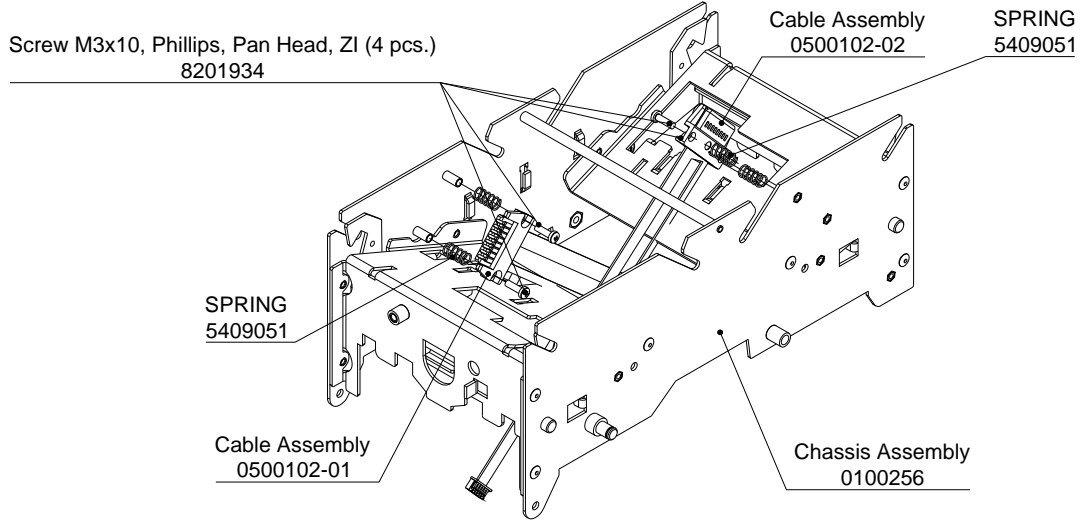
Part ID	Description	Qty.	
0100256	Chassis Assembly	1	BB01.22.100
0300101	Cassette Drive Assembly	1	BB01.22.200
0300101-01	Cassette Drive Assembly	1	BB01.22.200-01
0500102-01	Cable Assembly	1	BB01.27.210-01
0500102-02	Cable Assembly	1	BB01.27.210-02
5308110	Shaft	2	BB01.21.003
5409051	Spring	4	BB01.50.010
8201934	Screw M3x10, Phil, Pan Head, Zinc	4	8201934
8203920	Retaining Ring N D1500-3.2	4	8203920

Disassembly

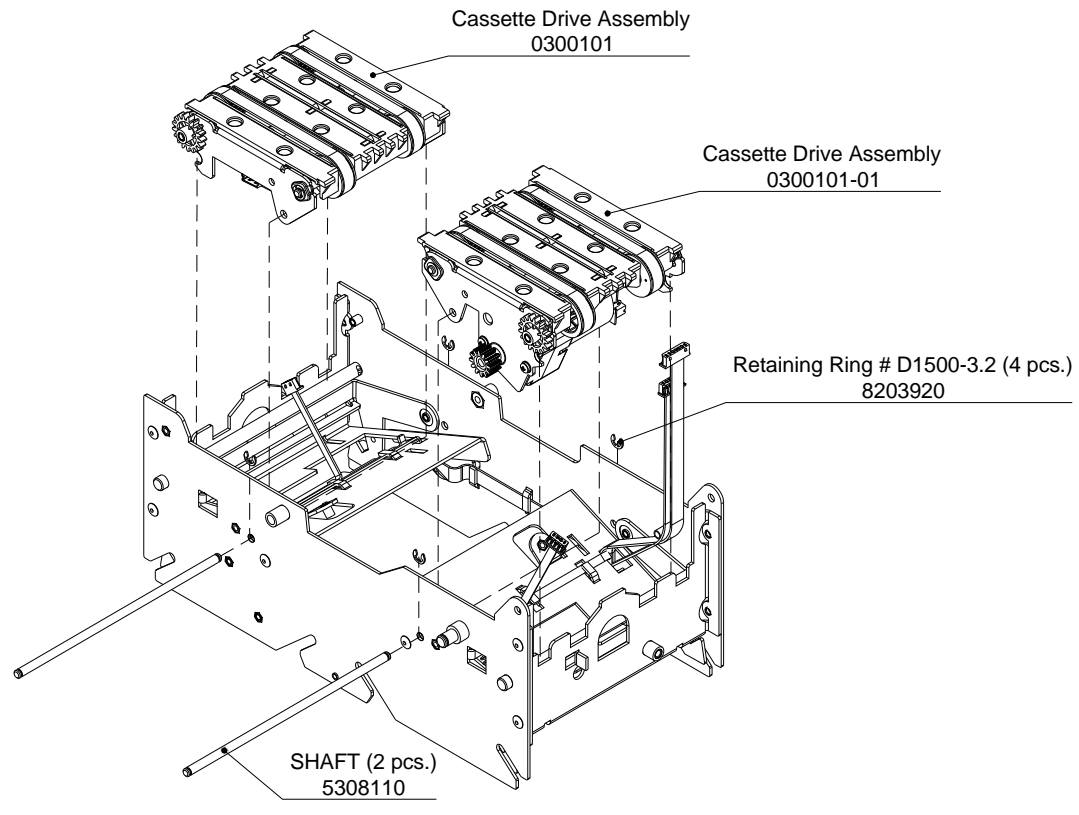
Tools required:

- Flat screwdriver
- Philips screwdriver #1

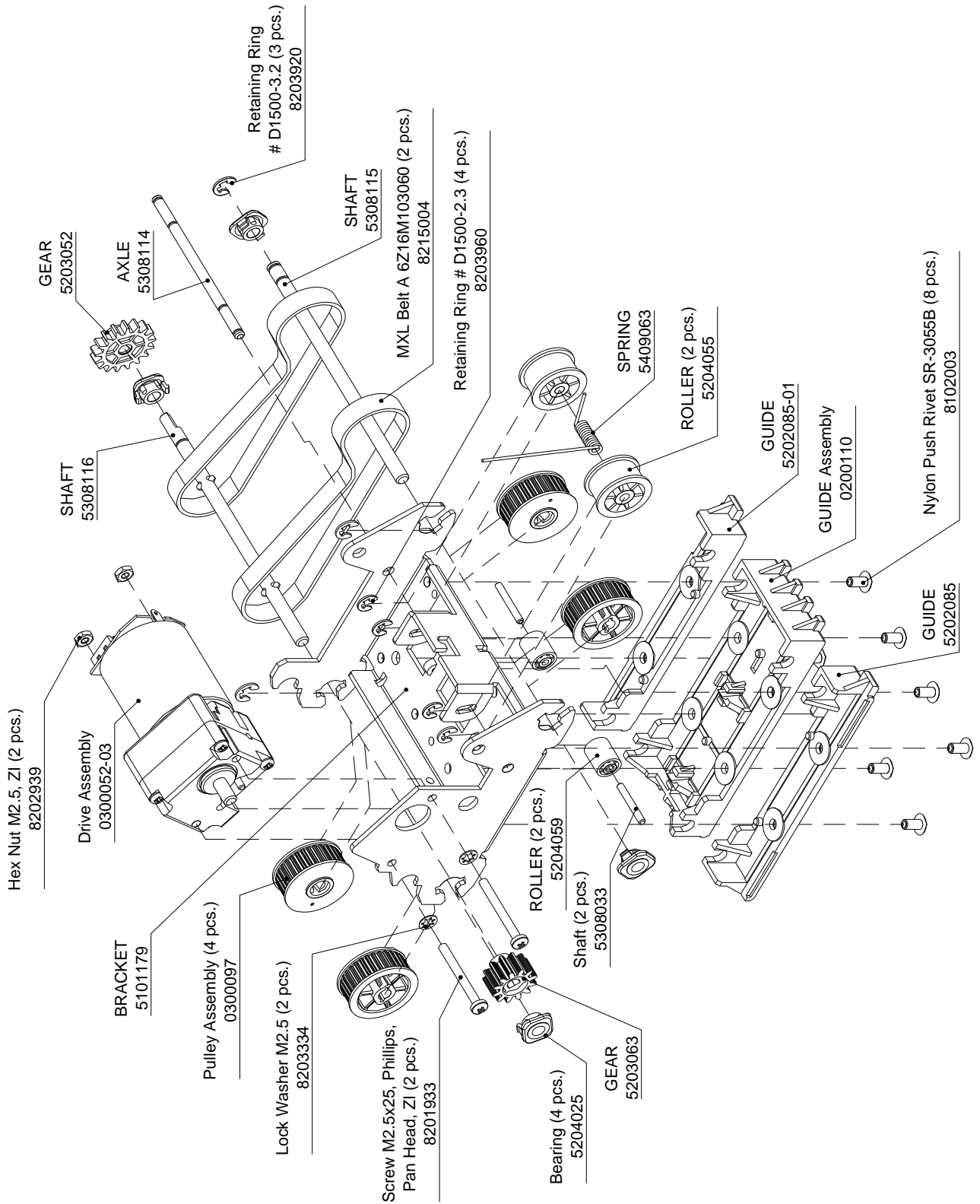
Step 1



Step 2



Cassette Drive (0300101, 0300101-01) – Exploded view



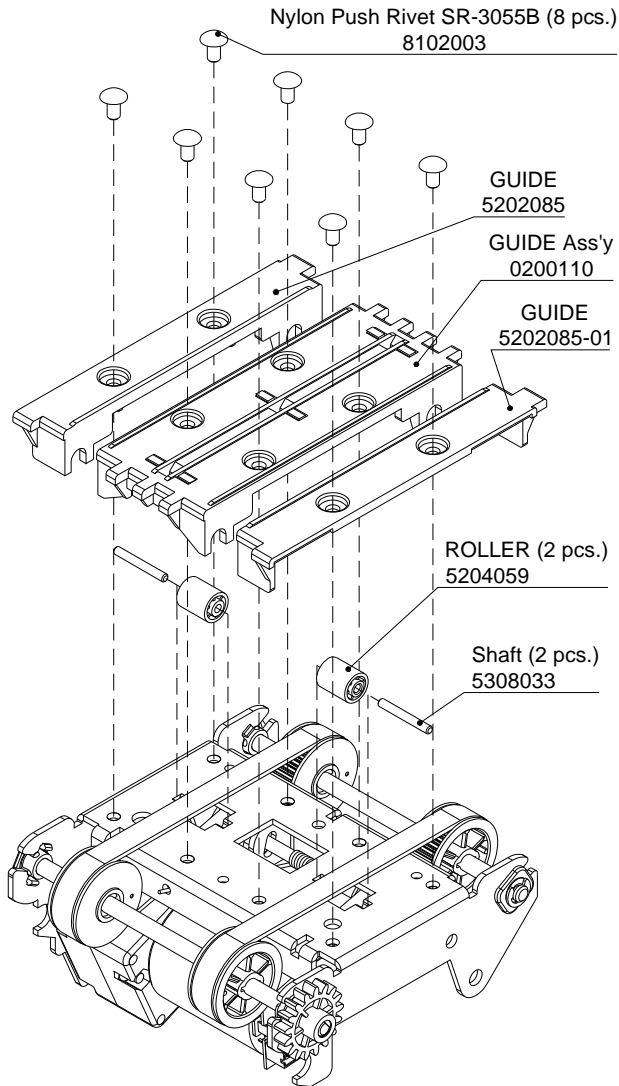
Part ID	Description	Qty.	
0200110	Guide Assembly	1	BB01.22.220
0300052-03	Drive Assembly	1	FL04.20.000-03
0300097	Pulley Assembly	4	BB01.64.000
5101179	Bracket	1	BB01.22.201
5202085	Guide	1	BB01.22.205
5202085-01	Guide	1	BB01.22.205-01
5203052	Gear	1	BB01.51.007
5203063	Gear	1	BB01.77.003
5204025	Bearing	4	VU01.05.001
5204055	Roller	2	BB01.22.202
5204059	Roller	2	BB01.22.209
5308033	Shaft	2	SM01.00.024
5308114	Axle	1	BB01.22.203
5308115	Shaft	1	BB01.22.206
5308116	Shaft	1	BB01.22.208
5409063	Spring	1	BB01.22.204
8102003	Nylon Push Rivet SR-3055B	8	8102003
8201933	Screw M2.5x25, Phil, Pan Head, Zi	2	8201933
8202939	Hex Nut M2.5, Zinc	2	8202939
8203334	Lock Washer M2.5, Int.Teeth, Zn	2	8203334
8203920	Retaining Ring N D1500-3.2	3	8203920
8203960	Retaining Ring #D1500-2.3	4	8203960
8215004	103MXL023 NG, A6Z16M103060	2	8215004

Disassembly

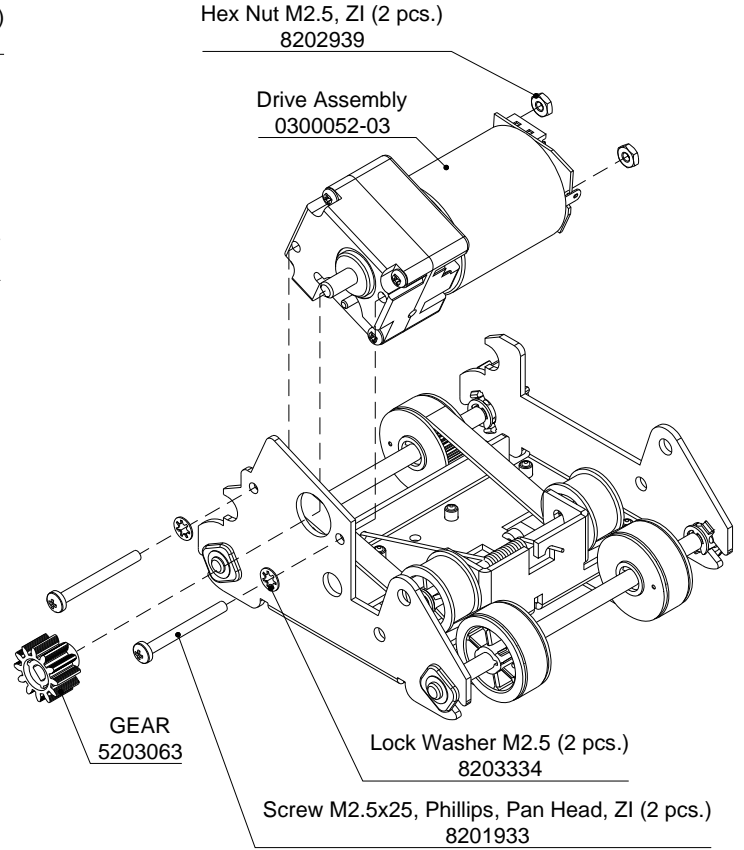
Tools required:

- Flat screwdriver
- Philips screwdriver #1
- Tweezers

Step 1



Step 2



Step 3

Retaining Ring # D1500-2.3 (4 pcs.)
8203960

ROLLER (2 pcs.)
5204055

SPRING
5409063

AXLE
5308114

Step 4

MXL Belt A 6Z16M103060 (2 pcs.)
8215004

Step 5

Pulley Assembly (4 pcs.)
0300097

SHAFT
5308116

GEAR
5203052

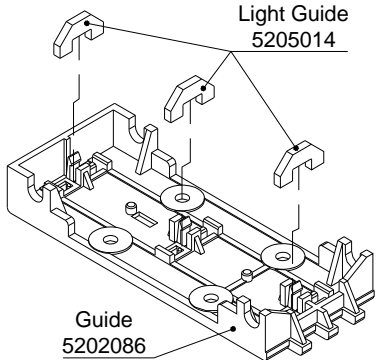
Bearing (4 pcs.)
5204025

SHAFT
5308115

Retaining Ring # D1500-3.2 (3 pcs.)
8203920

BRACKET
5101179

Guide (0200110) – Exploded view



Part ID	Description	Qty.
5202086	Guide	1
5205014	Light guide	3

BB01.22.221

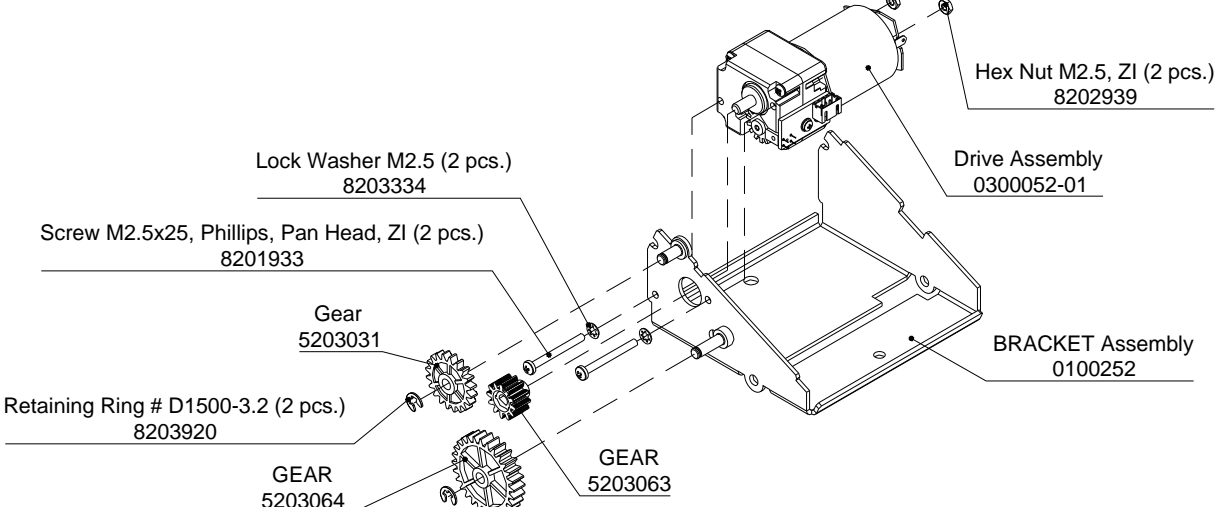
VU01.06.004

Disassembly

Tools required:

- Tweezers

Bed Bill Drive (0300099) – Exploded view



Hex Nut M2.5, ZI (2 pcs.)
8202939

Drive Assembly
0300052-01

Lock Washer M2.5 (2 pcs.)
8203334

Screw M2.5x25, Phillips, Pan Head, ZI (2 pcs.)
8201933

Gear
5203031

Retaining Ring # D1500-3.2 (2 pcs.)
8203920

GEAR
5203064

GEAR
5203063

BRACKET Assembly
0100252

Part ID	Description	Qty.
0100252	Bracket Assembly	1
0300052-01	Drive Assembly	1
5203031	Gear	1
5203063	Gear	1
5203064	Gear	1
8201933	Screw M2.5x25, Phil, Pan Head, Zi	2
8202939	Hex Nut M2.5, Zinc	2
8203334	Lock Washer M2.5, Int.Teeth, Zn	2
8203920	Retaining Ring N D1500-3.2	2

BB01.24.100

FL04.20.000-01

FL04.05.102

BB01.77.003

BB01.23.013

8201933

8202939

8203334

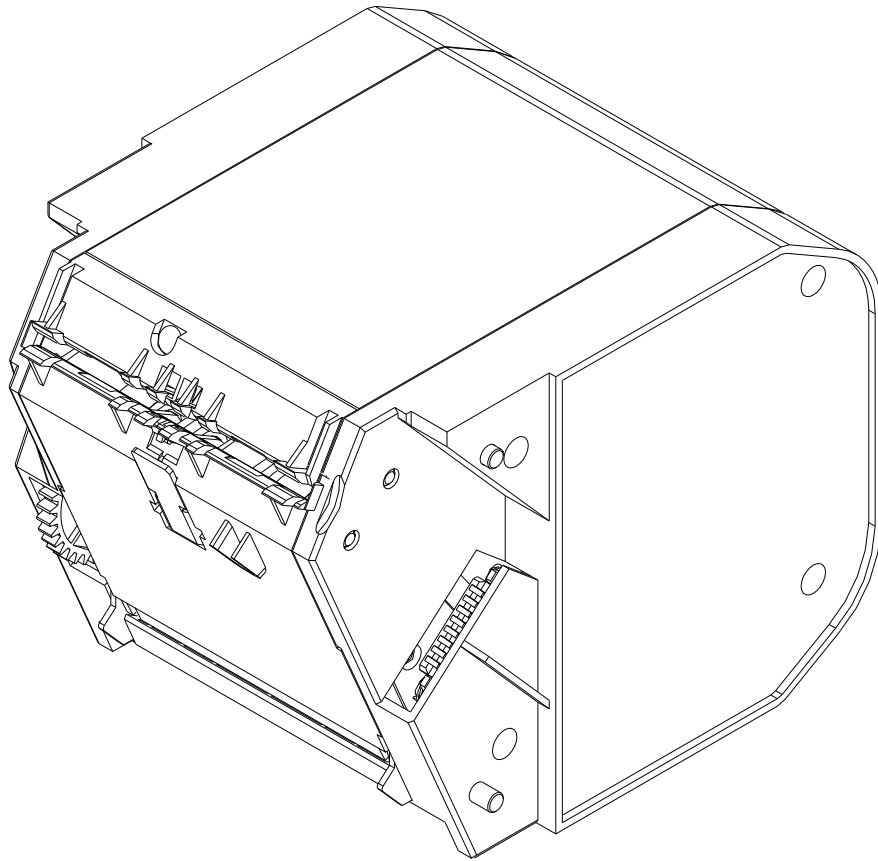
8203920

Disassembly

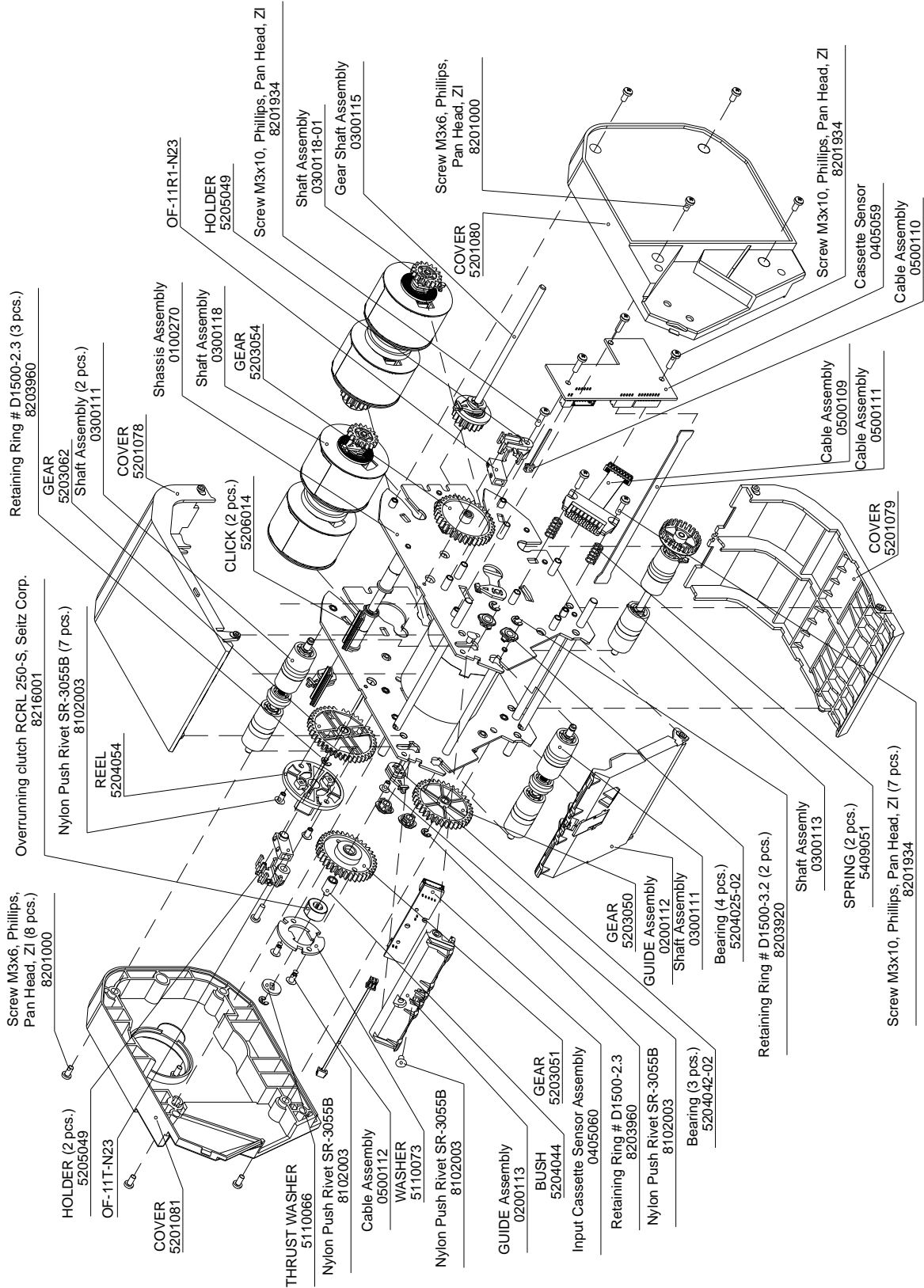
Tools required:

- Flat screwdriver
- Philips screwdriver #1

RECYCLING CASSETTE



Recycling Cassette (BRR0110) – Exploded view



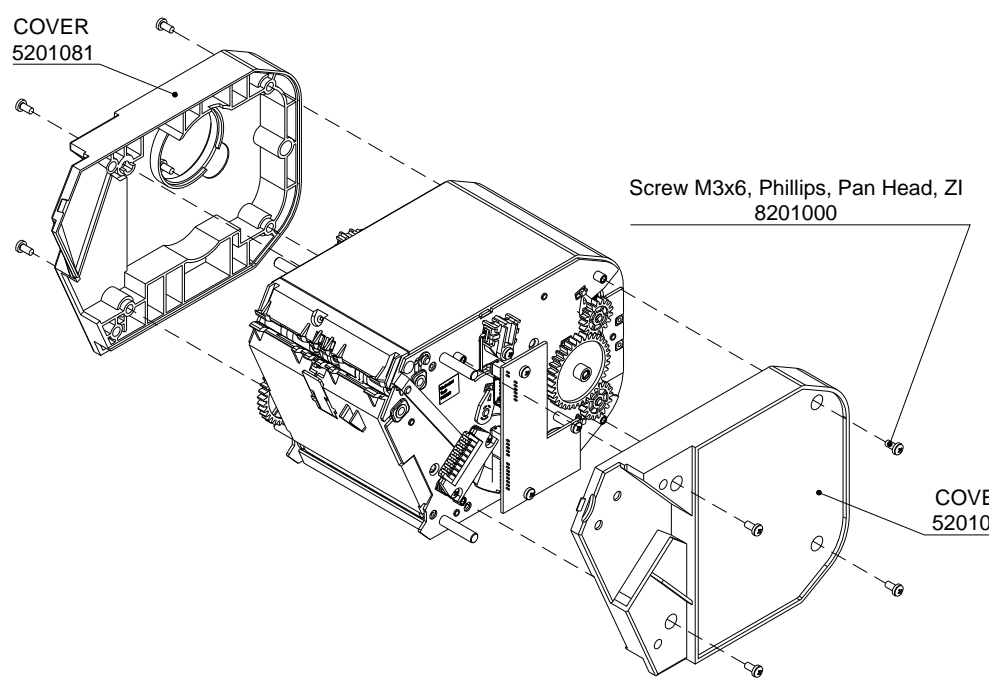
Part ID	Description	Qty.	
0100270	Chassis Assembly	1	BB01.57.000
0200112	Guide Assembly	1	BB01.56.000
0200113	Guide Assembly	1	BB01.50.200
0300111	Shaft Assembly	2	BB01.55.000
0300113	Shaft Assembly	1	BB01.54.000
0300115	Gear Shaft Assembly	1	BB01.52.000
0300118	Shaft Assembly	1	BB01.51.000
0300118-01	Shaft Assembly	1	BB01.51.000-01
0405059-02	Cassette Sensors Board	1	BB01.58.100-02
0405060	Enter Cassette Sensor	1	BB01.59.100
0500109	Cable Assembly	1	BB01.58.200
0500110	Cable Assembly	1	BB01.58.300
0500111	Cable Assembly	1	BB01.59.200
0500112	Cable Assembly	1	BB01.59.500
5110066	Thrust Washer	1	BB01.52.005
5110073	Washer	1	BB01.50.013
5201078	Cover	1	BB01.50.005
5201079	Cover	1	BB01.50.006
5201080	Cover	1	BB01.50.008
5201081	Cover	1	BB01.50.009
5203050	Gear	1	BB01.50.004
5203051	Gear	1	BB01.50.012
5203054	Gear	1	BB01.52.007
5203062	Gear	1	BB01.77.002
5204025-02	Bearing	4	VU01.05.001-02
5204042-02	Bearing	3	BB01.51.006-02
5204044	Bush	1	BB01.52.004
5204054	Reel	1	BB01.77.006
5205049	Holder	2	BB01.50.101
5206014	Click	2	BB01.51.102
5409051	Spring	2	BB01.50.010
8102003	Nylon Push Rivet SR-3055B	7	8102003
8201000	Screw M3x6, Phil., Pan Head, Zinc	8	8201000
8201934	Screw M3x10, Phil, Pan Head, Zinc	7	8201934
8203920	Retaining Ring #D1500-3.2	2	8203920
8203960	Retaining Ring #D1500-2.3	3	8203960
8216001	RCRL 250-S, Overrunning clutch	1	8216001
R1608	Separated Photointerrupt	1	R1608
R1609	Separated Photointerrupt	1	R1609

Disassembly

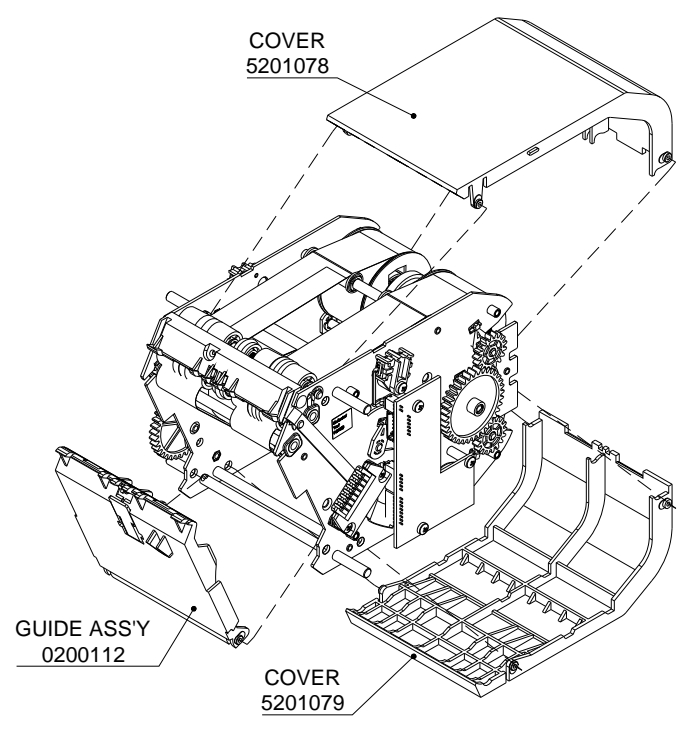
Tools required:

- Flat screwdriver
- Philips screwdriver #1
- Tweezers

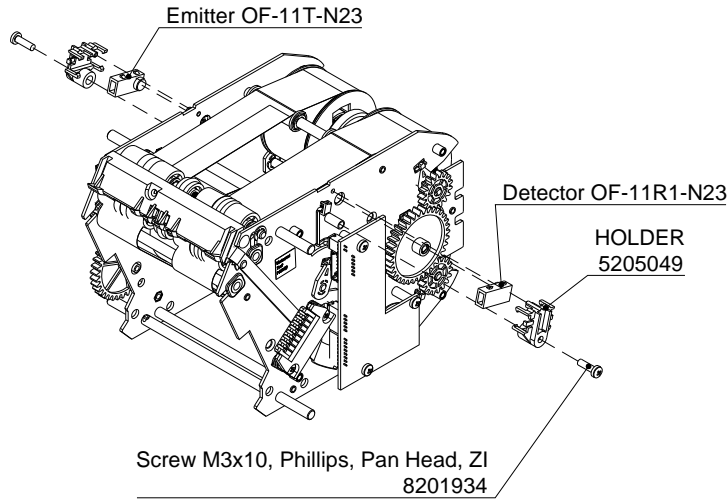
Step 1



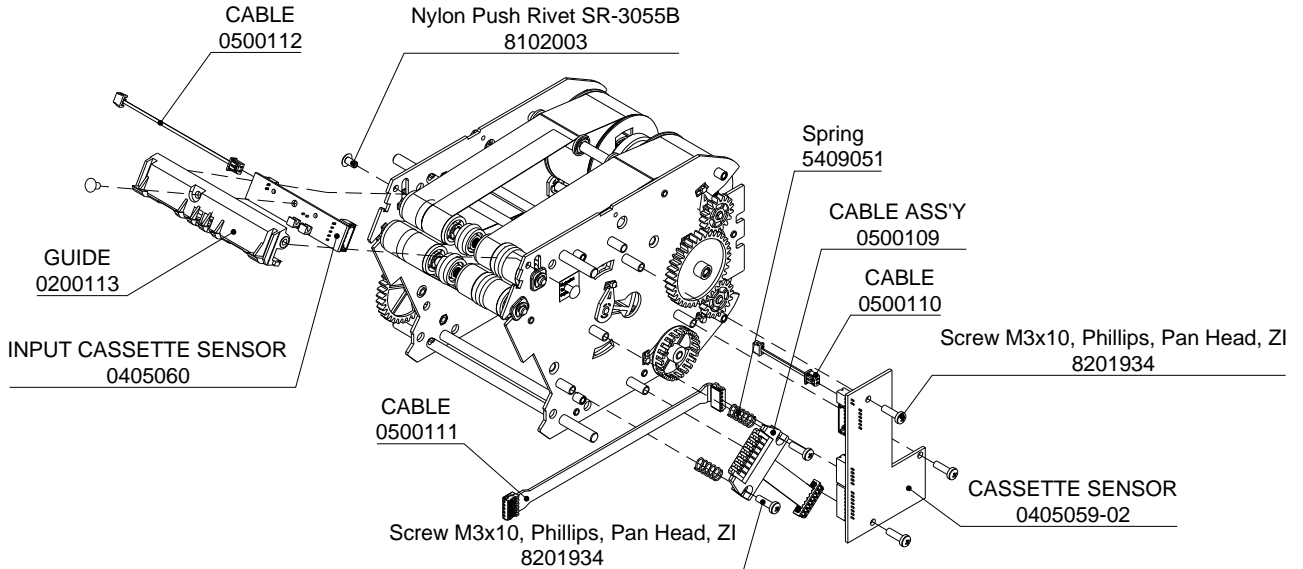
Step 2



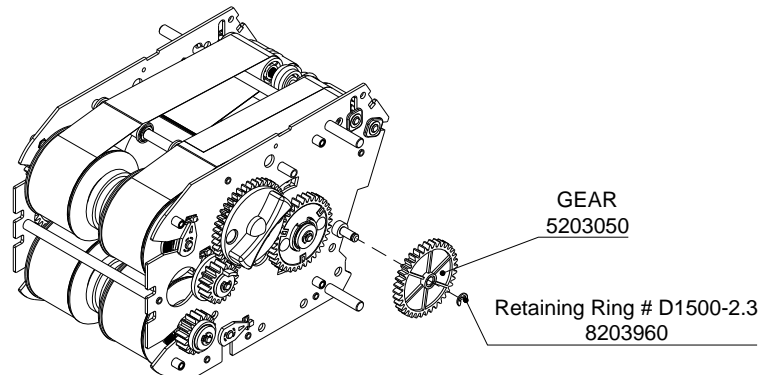
Step 3



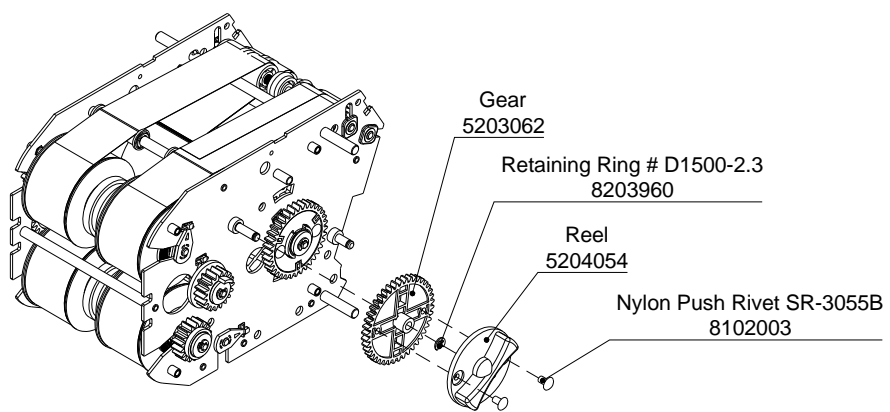
Step 4



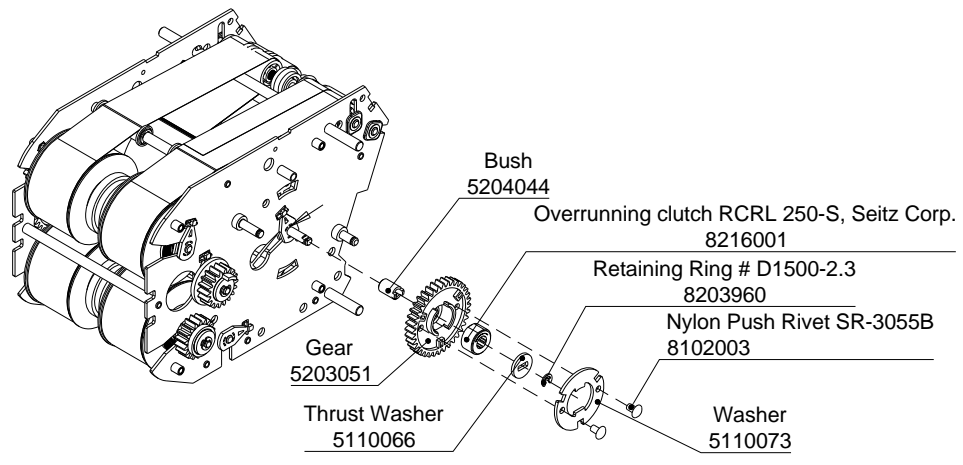
Step 5



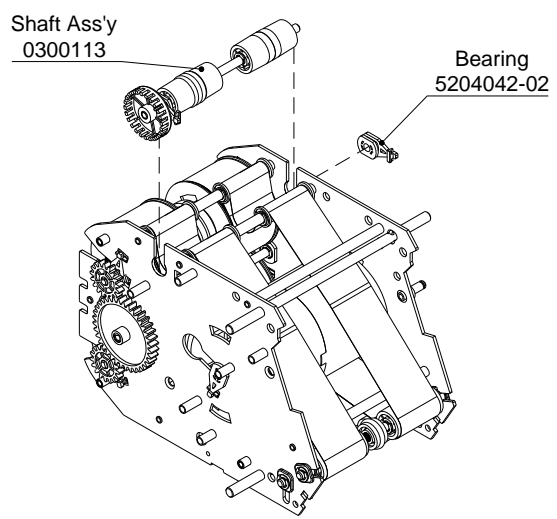
Step 6



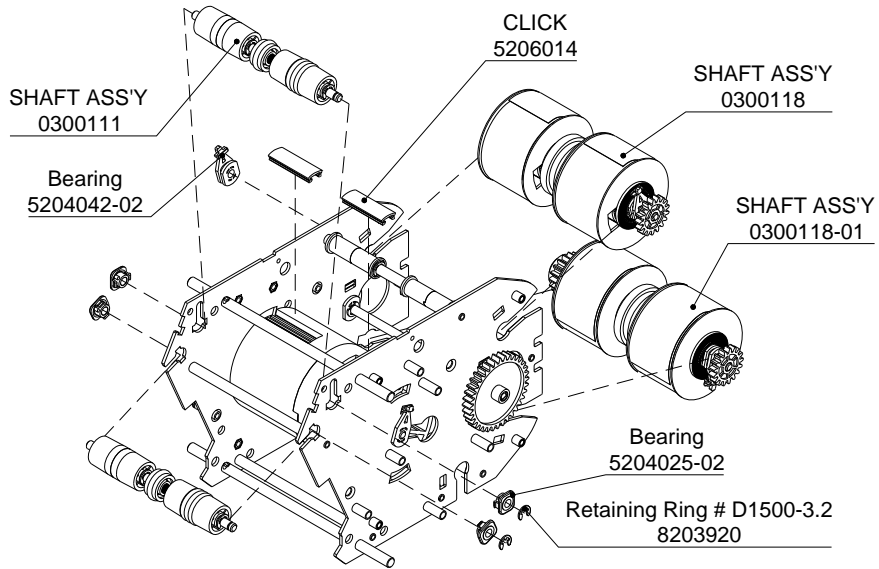
Step 7



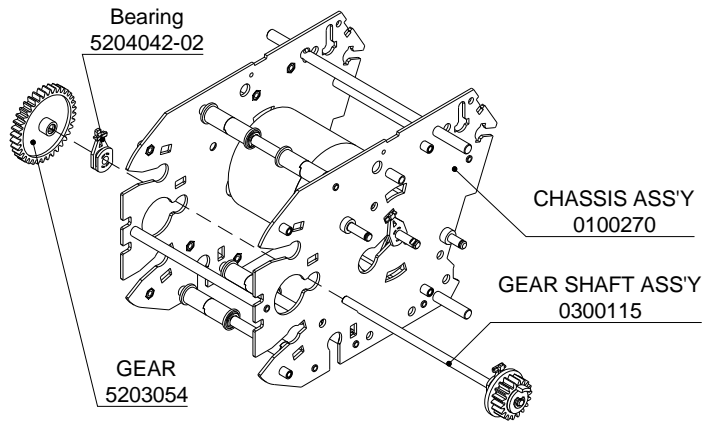
Step 8



Step 9

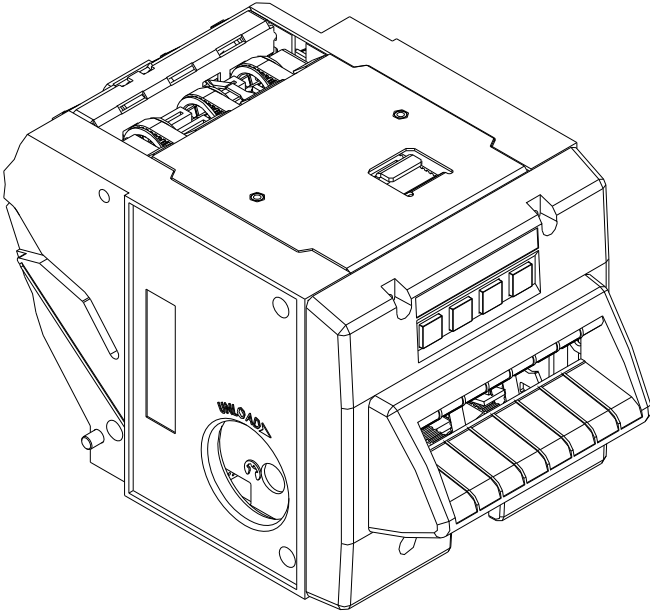


Step 10

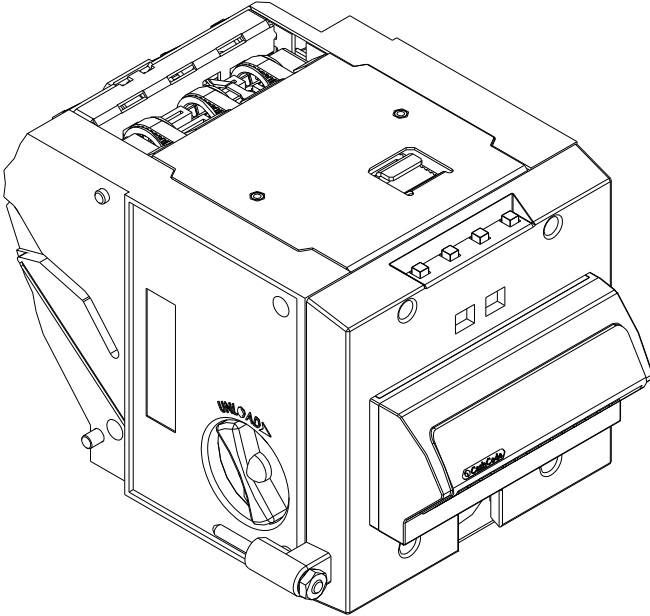


DISPENSING CASSETTE

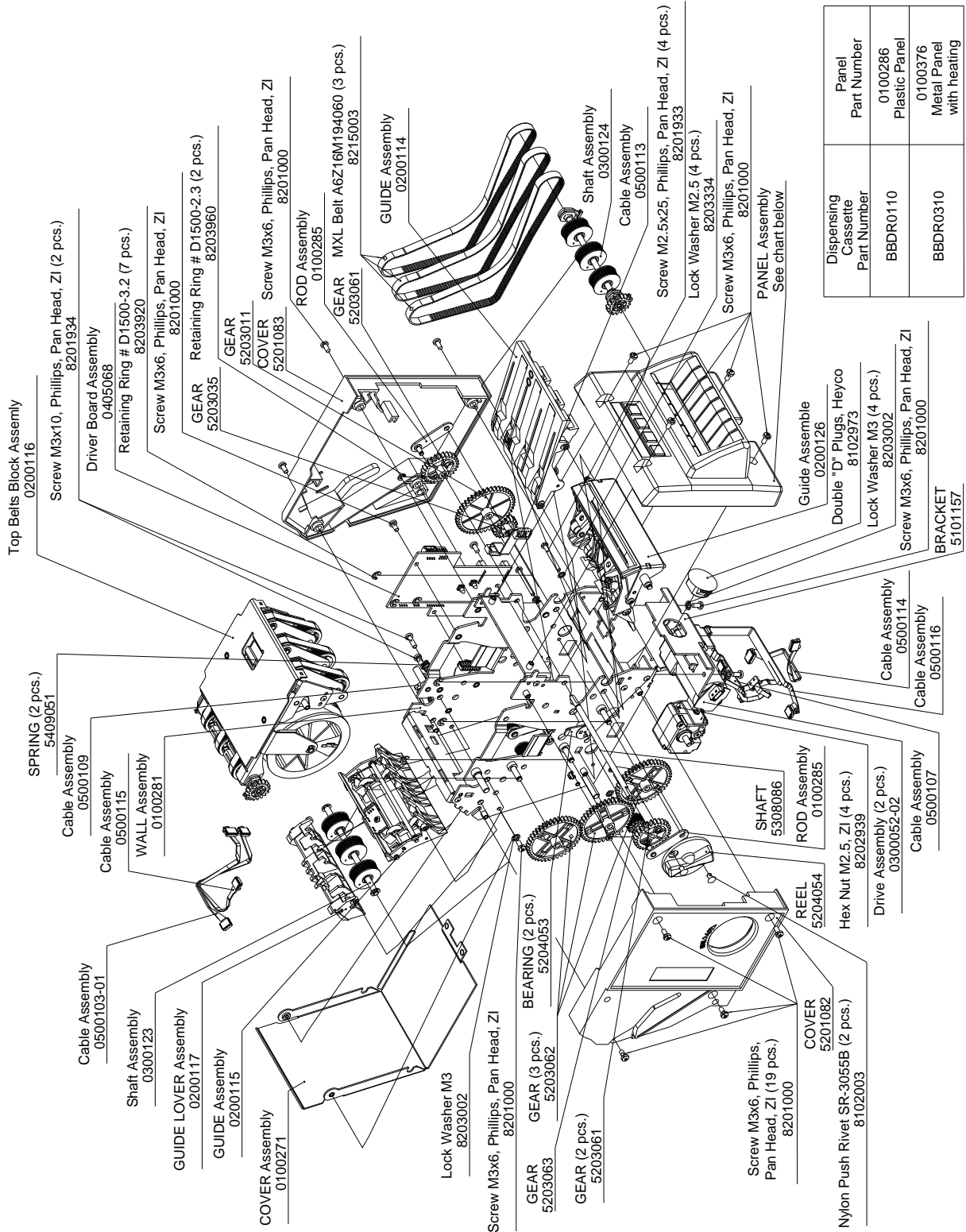
**Dispensing Cassette
Plastic Bezel (BBDR0110)**



**Dispensing Cassette
Metal Bezel, heating (BBDR0310)**



Dispensing Cassette (BBDR0110, BBDR0310) – Exploded view



Dispensing Cassette Part Number	Panel Part Number
BBDR0110	0100286 Plastic Panel
BBDR0310	0100376 Metal Panel with heating

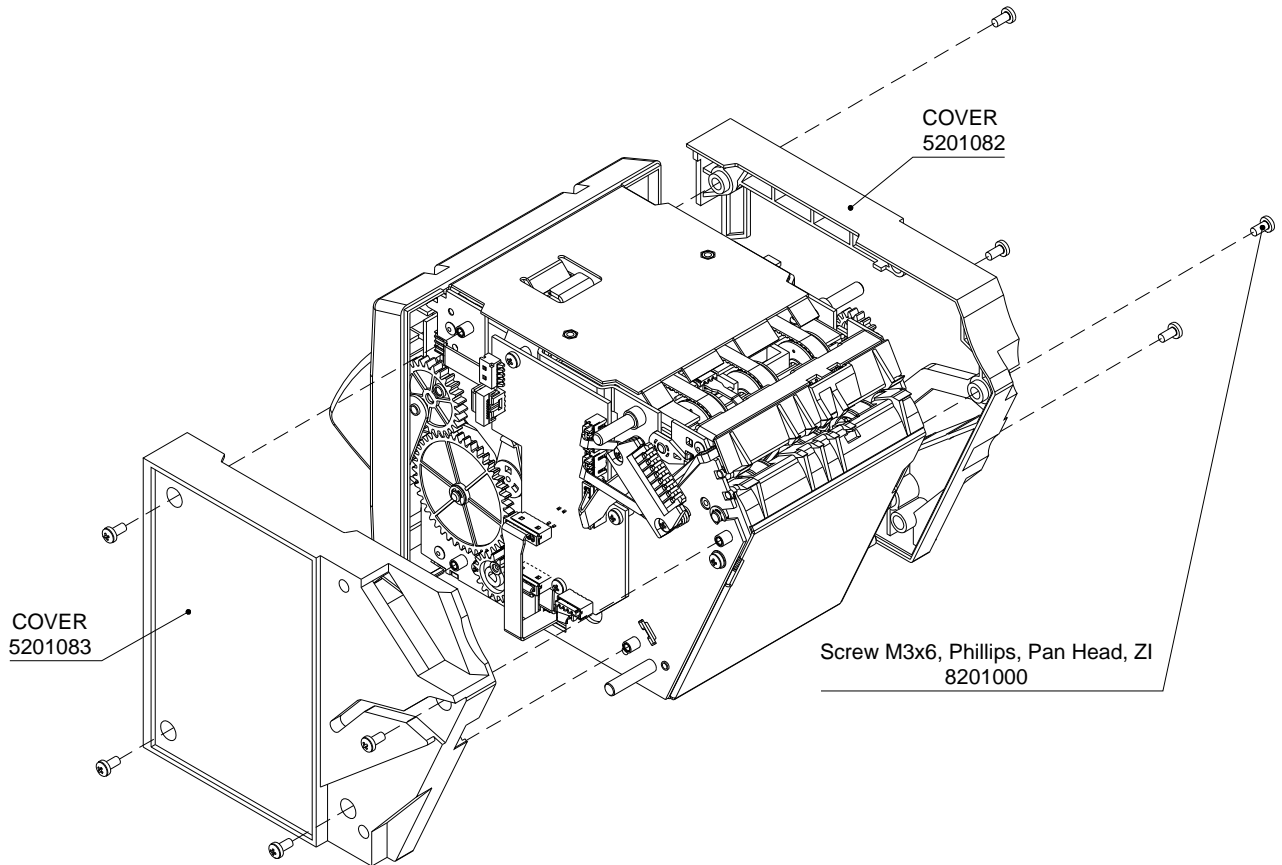
Part ID	Description	Qty.		
		BBDR0110	BBDR0310	
0100271	Cover Assembly	1	1	BB01.70.100
0100281	Wall Assembly	1	1	BB01.77.100
0100285	Rod Assembly	2	2	BB01.77.150
0100286	Panel Assembly	1		BB01.78.000
0100376	Panel Assembly		1	BB01.78.500
0200114	Guide Assembly	1	1	BB01.72.000
0200115	Guide Assembly	1	1	BB01.75.000
0200116	Top Belts Block Assembly	1	1	BB01.71.000
0200117	Guide Lower Assembly	1	1	BB01.79.000
0200126	Guide Assembly	1	1	BB01.74.000
0300052-02	Drive Assembly	2	2	FL04.20.000-02
0300123	Shaft Assembly	1	1	BB01.73.000
0300124	Drive Assembly	1	1	BB01.76.000
0405068-01	BB01 Packer Board	1	1	BB01.77.500-01
0500103-01	Cable Assembly	1	1	BB01.27.220-01
0500107	Cable Assembly	1	1	BB01.27.260
0500113	Cable Assembly	1	1	BB01.76.100
0500114	Cable Assembly	1	1	BB01.76.110
0500115	Cable Assembly	1	1	BB01.76.120
0500116	Cable Assembly	1	1	BB01.76.130
0500166	Cable Assembly	1	1	BB01.70.200
5101157	Bracket	1	1	BB01.70.004
5201082	Cover	1	1	BB01.70.001
5201083	Cover	1	1	BB01.70.002
5203011	Gear BV, Large	1	1	BV01.05.002
5203035	Gear	1	1	FL04.05.242
5203061	Gear	2	2	BB01.77.001
5203062	Gear	3	3	BB01.77.002
5203063	Gear	1	1	BB01.77.003
5204053	Bearing	2	2	BB01.77.004
5204054	Reel	1	1	BB01.77.006
5308086	Shaft	1	1	BB01.70.008
5409051	Spring	2	2	BB01.50.010
8102003	Nylon Push Rivet SR-3055B	2	2	8102003
8102973	Double "D" Plugs	1	1	8102973
8201000	Screw M3x6, Phil., Pan Head, Zinc	19	19	8201000
8201933	Screw M2.5x25, Phil, Pan Head, Zinc	4	4	8201933
8201934	Screw M3x10, Phil, Pan Head, Zinc	2	2	8201934
8202939	Hex Nut M2.5, Zinc	4	4	8202939
8203002	Lock Washer M3, Internal teeth	4	4	8203002
8203334	Lock Washer M2.5, Int. Teeth, Zinc	4	4	8203334
8203920	Retaining Ring N D1500-3.2	7	7	8203920
8203960	Retaining Ring #D1500-2.3	2	2	8203960
8215003	194MXL023 NG, A6Z16M194060	3	3	8215003

Disassembly

Tools required:

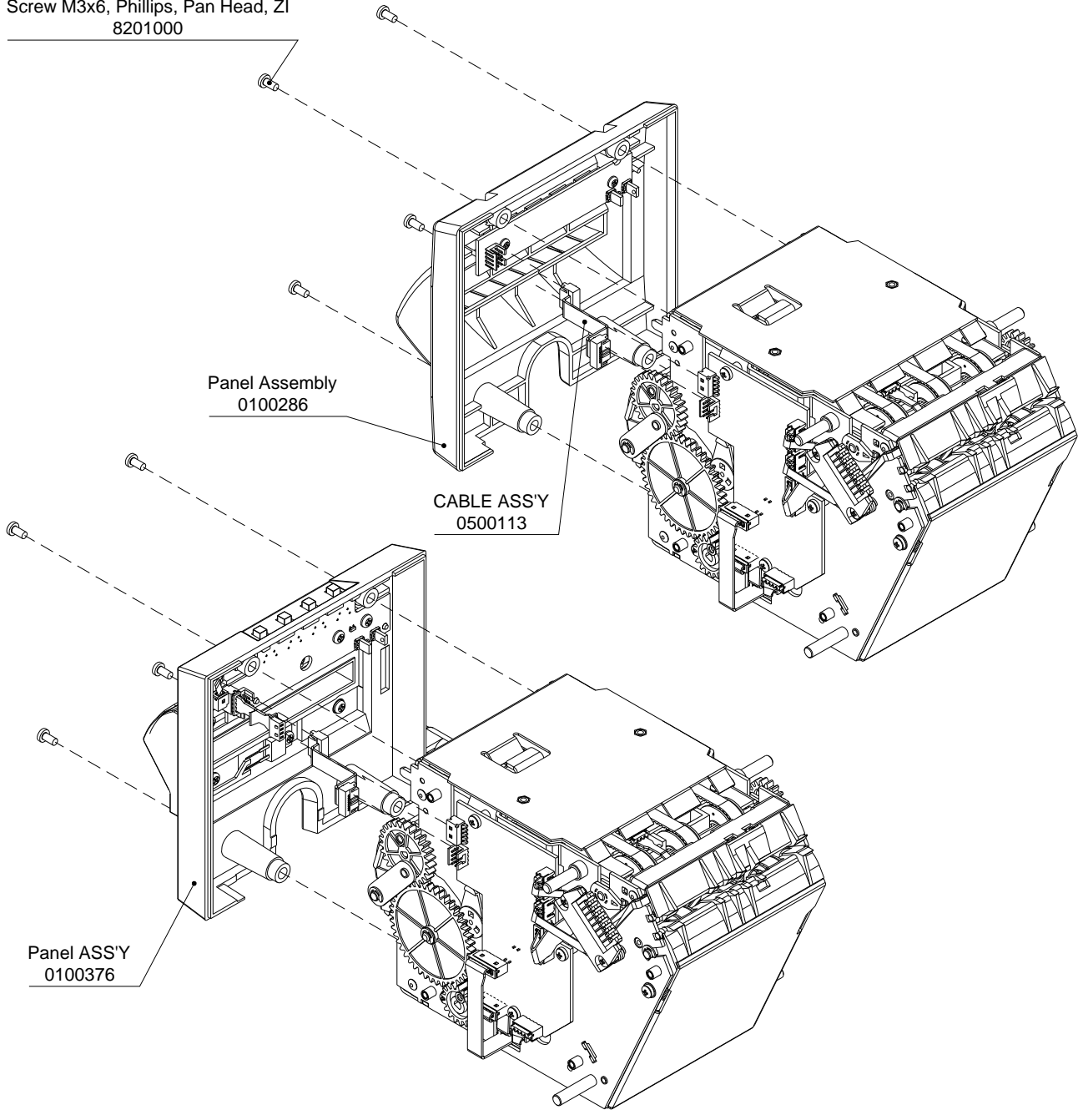
- Flat screwdriver
- Philips screwdriver #1
- Tweezers

Step 1



Step 2

Screw M3x6, Phillips, Pan Head, ZI
8201000



Panel Assembly
0100286

CABLE ASS'Y
0500113

Panel ASS'Y
0100376

Step 3

COVER ASS'Y
0100271

Lock Washer M3
8203002

Screw M3x6, Phillips, Pan Head, ZI
8201000

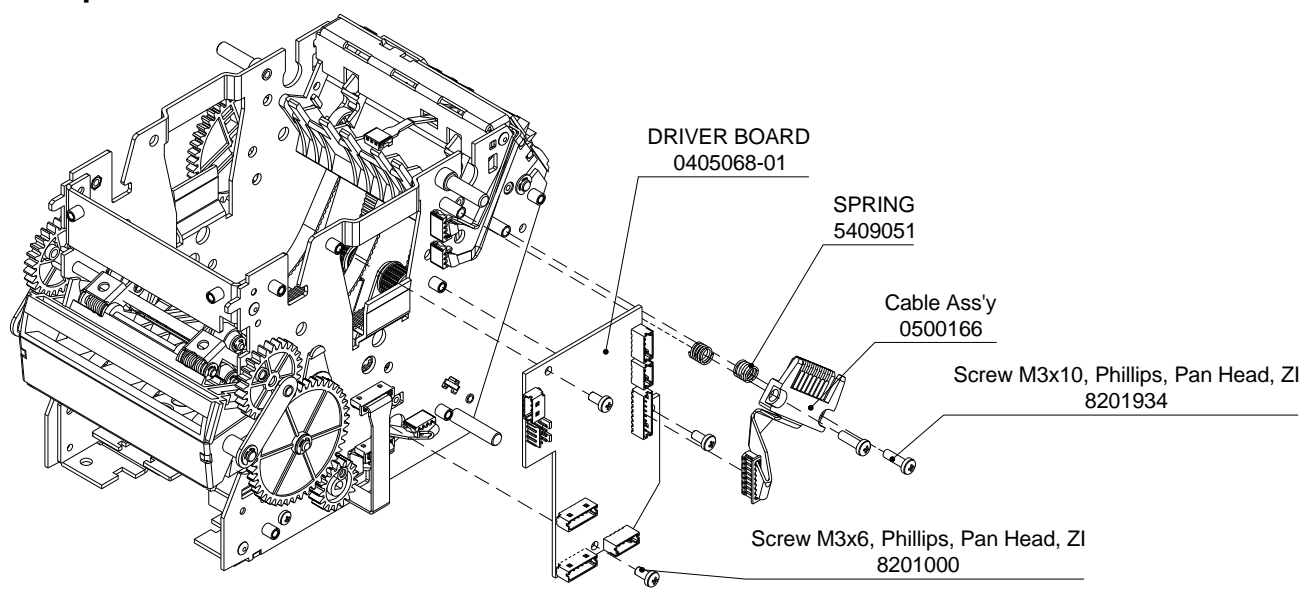
BRACKET
5101157

Double "D" Plugs, Heyco 2503
8102973

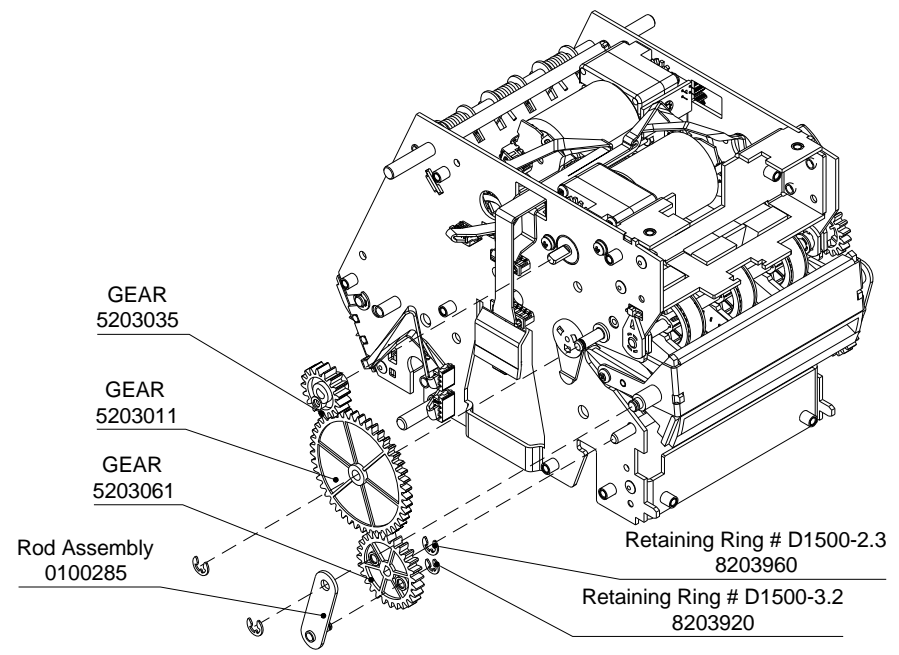
Step 4

TOP BELTS BLOCK ASS'Y
0200116

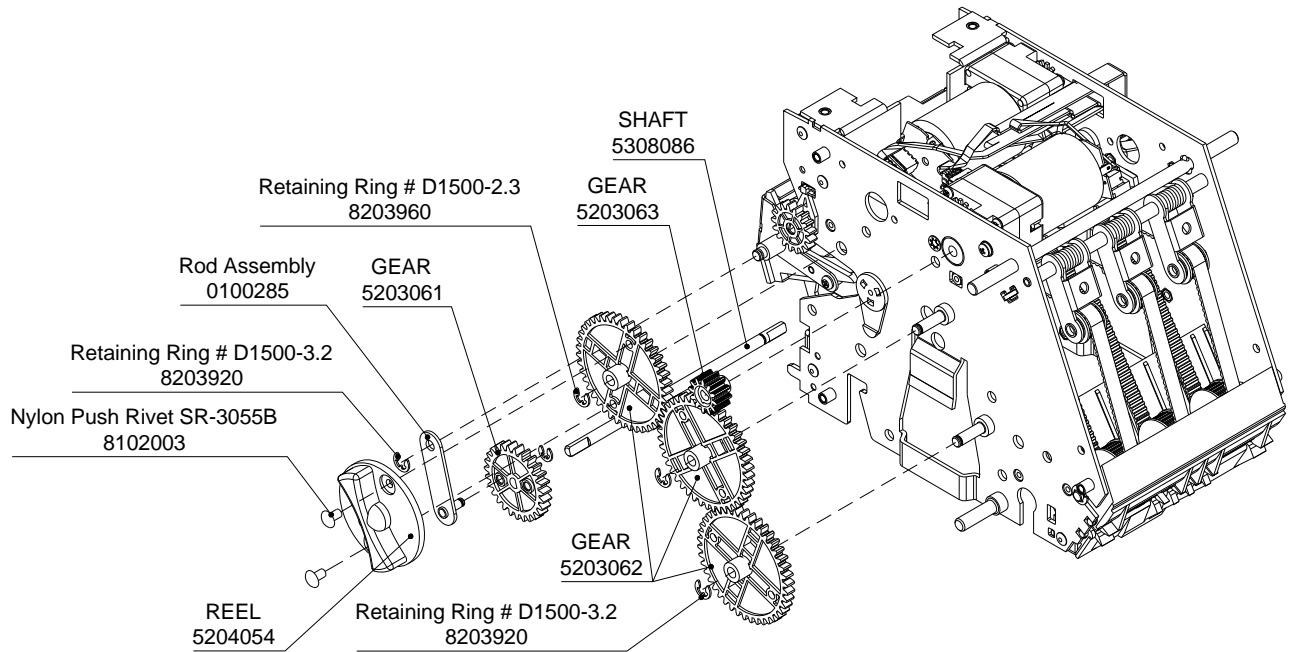
Step 5



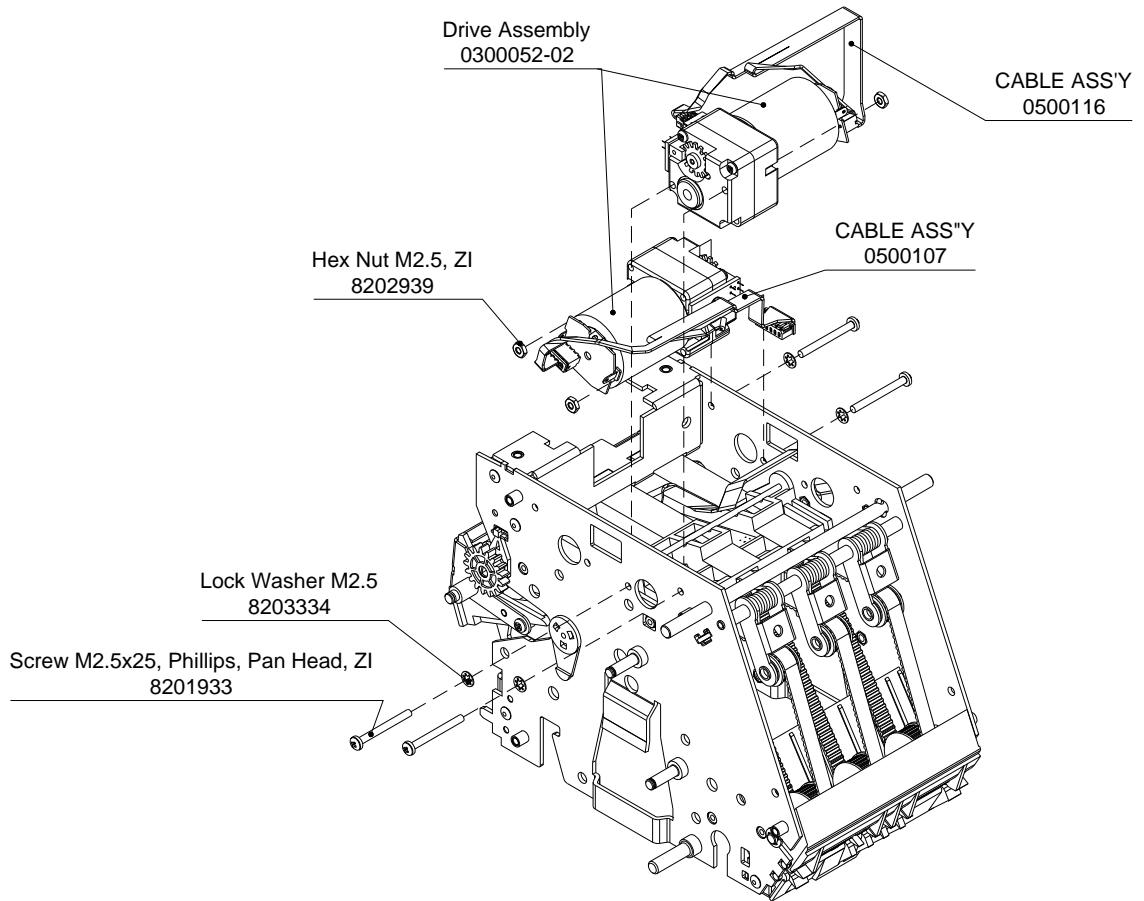
Step 6



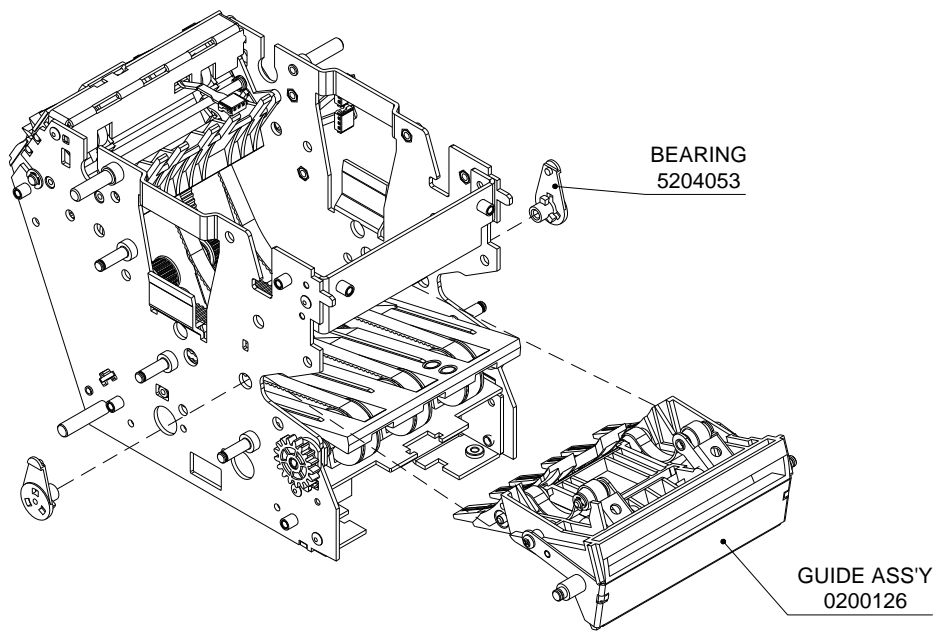
Step 7



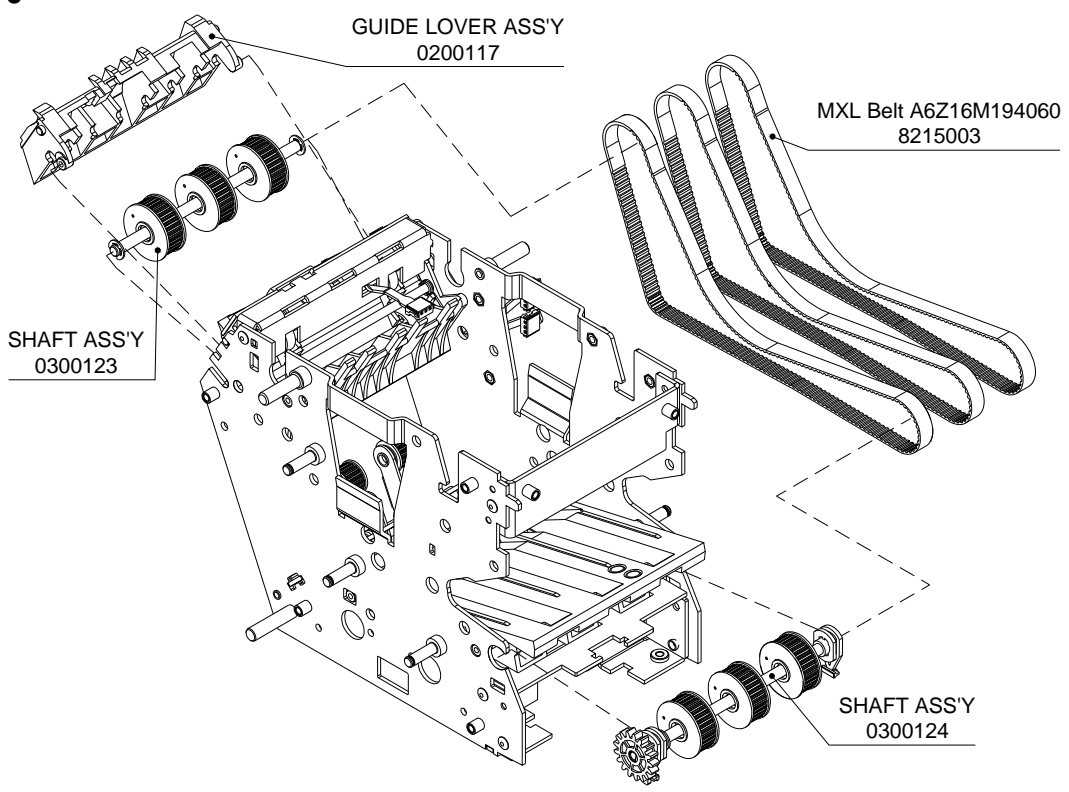
Step 8



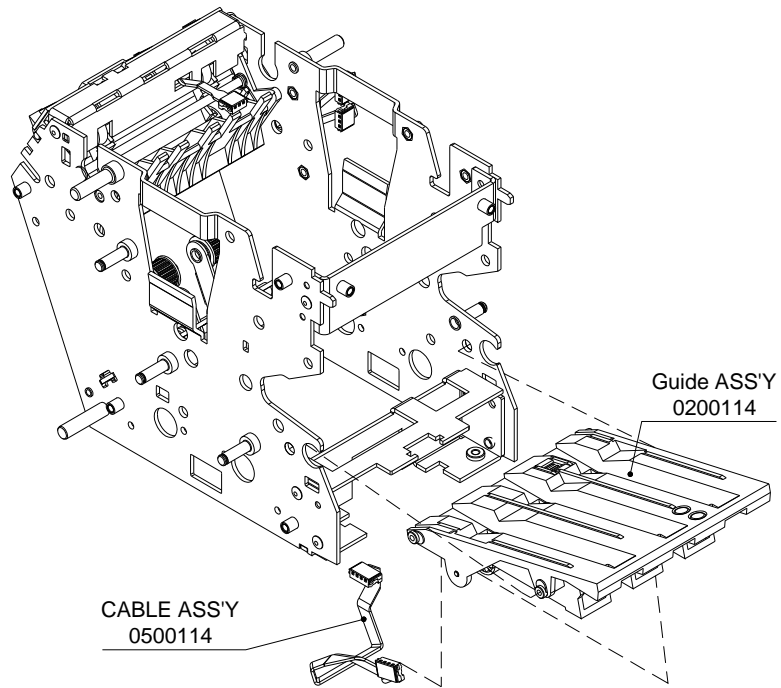
Step 9



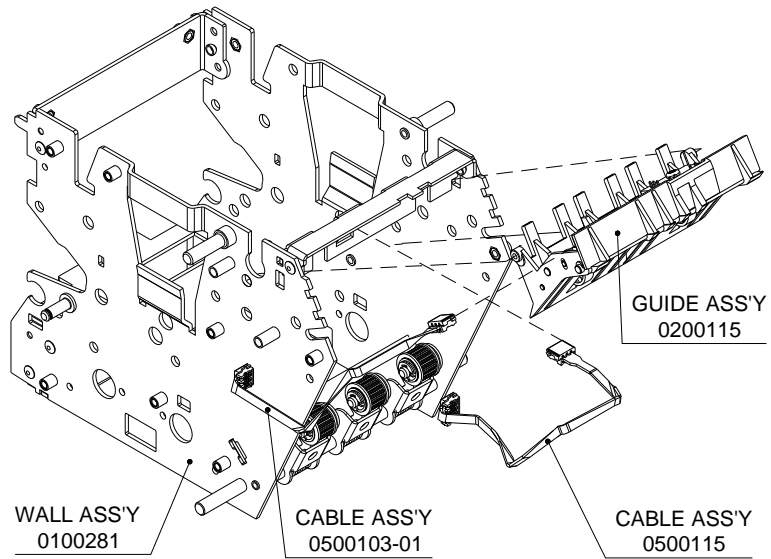
Step 10



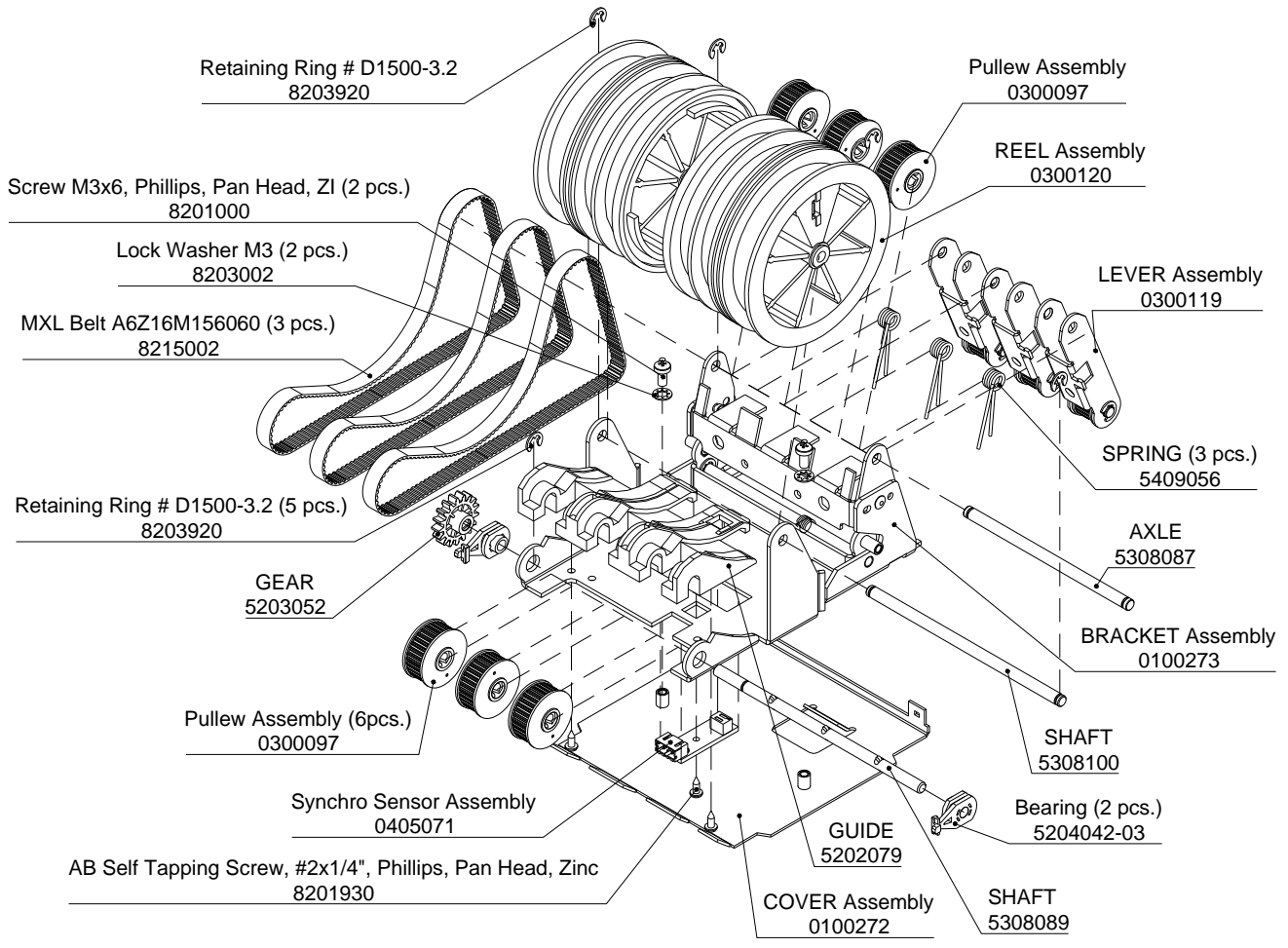
Step 11



Step 12



Top Belts Block (0200116) – Exploded view



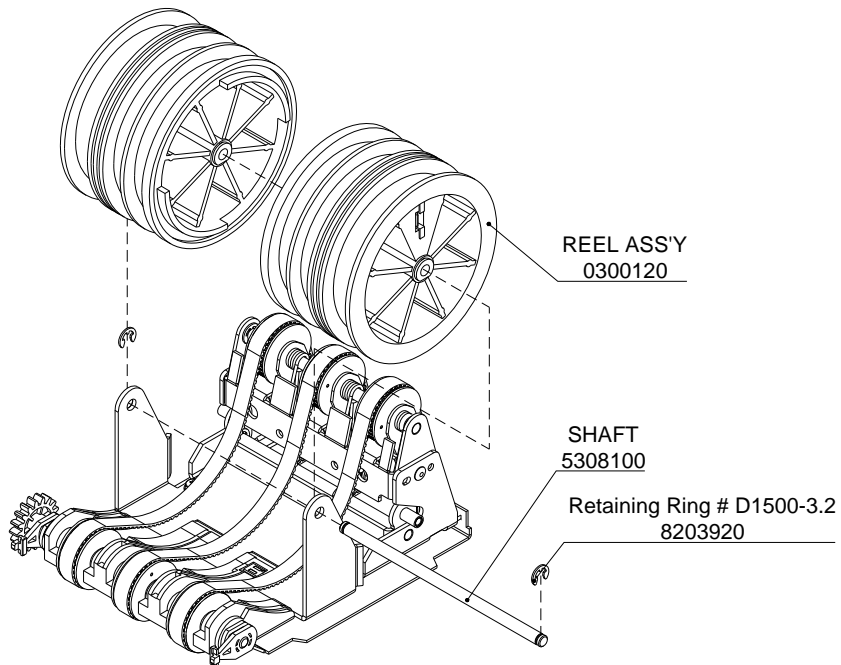
Part ID	Description	Qty.	BB01	Part ID	Description	Qty.	BB01
0100272	Cover Assembly	1	BB01	5308087	Axle	1	BB01.71.001
0100273	Bracket Assembly	1	BB01	5308089	Shaft	1	BB01.71.301
0300097	Pulley Assembly	6	BB01	5308100	Shaft	1	BB01.77.301
0300119	Lever Assembly	3	BB01	5409056	Spring	3	BB01.71.002
0300120	Reel Assembly	2	BB01	8201000	Screw M3x6, Phil., Pan Head, Zinc	2	8201000
0405071	BB01 Synchro Sensor	1	BB01	8201930	Tapping screw, #2x1/4, Pan, Ph	3	8201930
5202079	Guide	1	BB01	8203002	Lock Washer M3, Internal teeth	2	8203002
5203052	Gear	1	BB01	8203920	Retaining Ring N D1500-3.2	5	8203920
5204042-03	Bearing	2	BB01	8215002	156MXL023 NG, A6Z16M156060	3	8215002

Disassembly

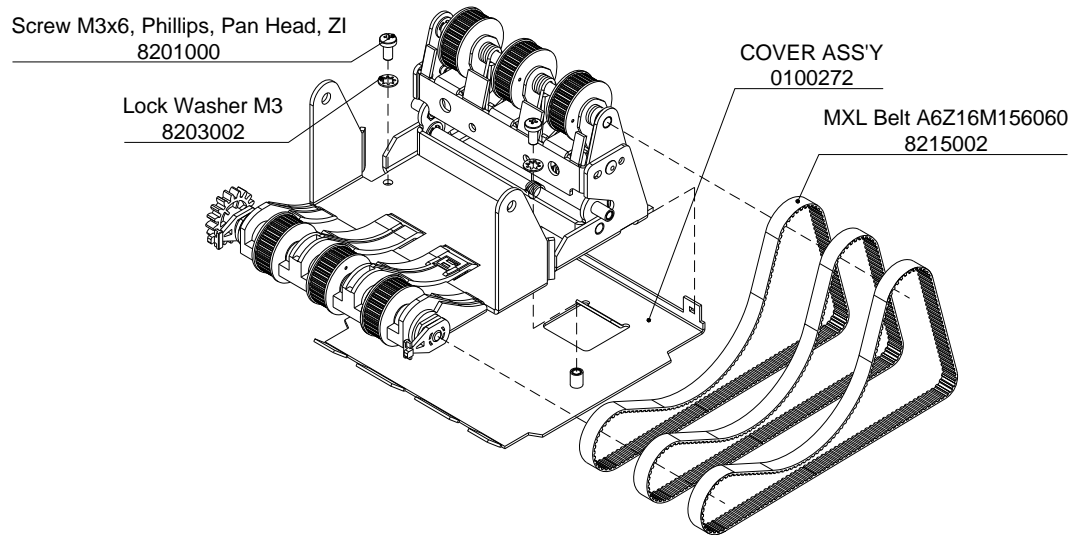
Tools required:

- Flat screwdriver
- Philips screwdriver #1
- Tweezers

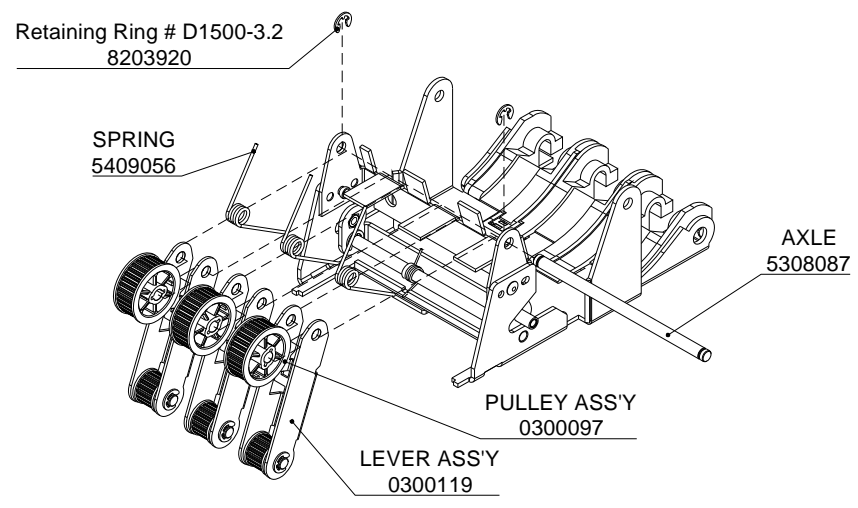
Step 1



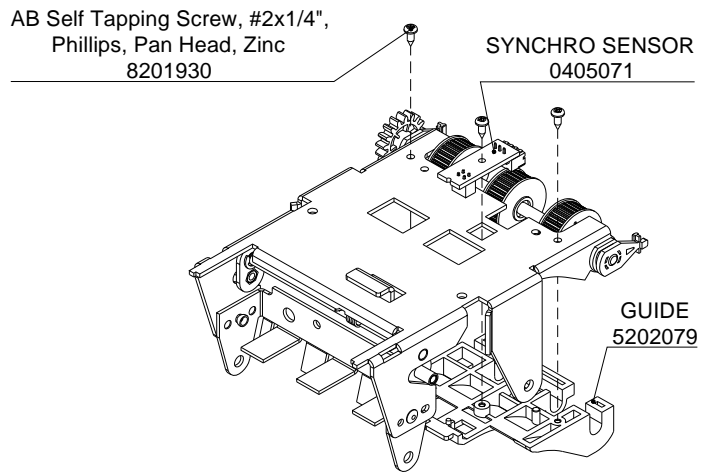
Step 2



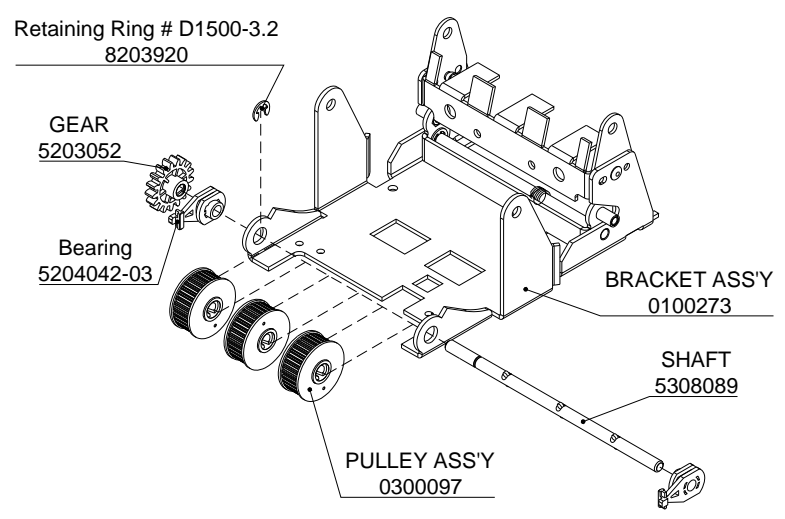
Step 3



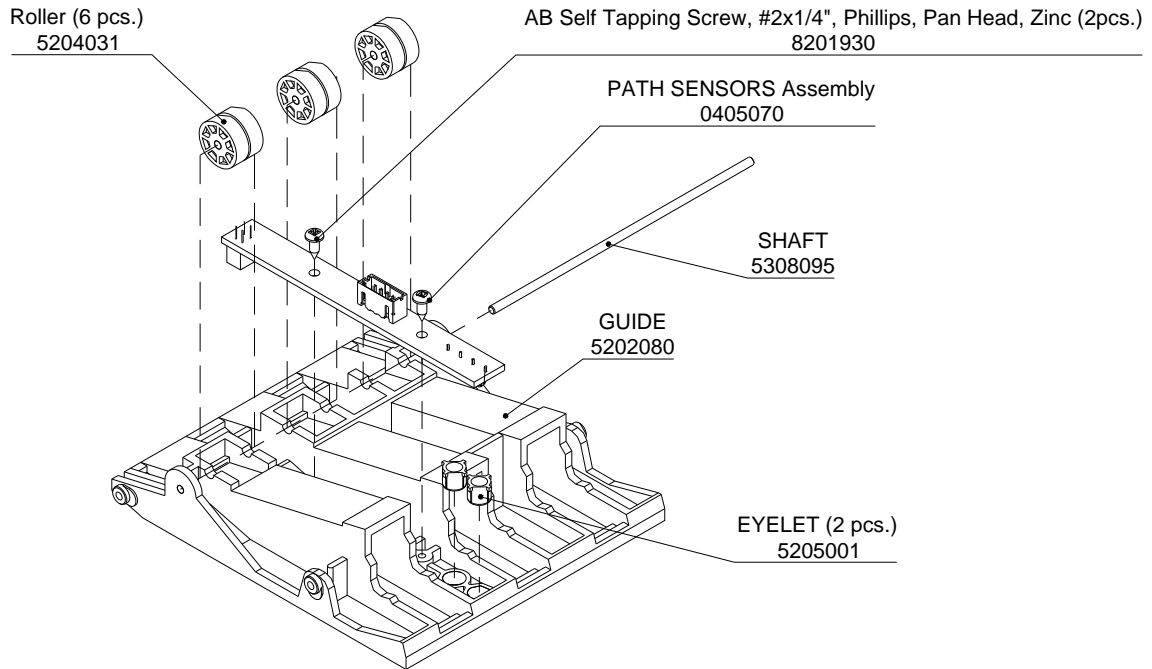
Step 4



Step 5



Guide (0200114) – Exploded view



Part ID	Description	Qty.	
0405070	Path Sensors, Board	1	BB01.72.500
5202080	Guide	1	BB01.72.001
5204031	Roller	6	SM01.00.025
5205001	Eyelet (Lens, 4 tabs)	2	BV01.00.019
5308095	Shaft	1	BB01.75.002
8201930	Tapping screw, #2x1/4, Pan, Ph	2	8201930

Disassembly

Tools required:

- Flat screwdriver

Lever (0300121) – Exploded view

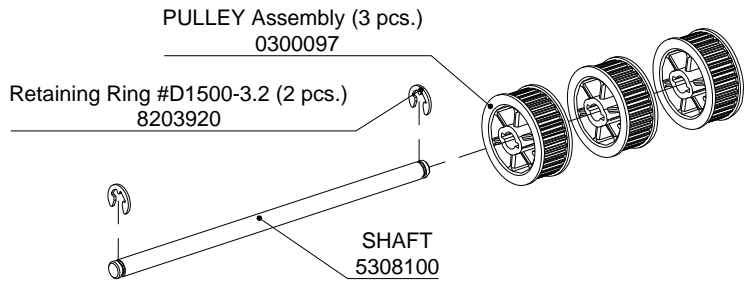
Part ID	Description	Qty.	
0300091	Pulley Assembly	1	BB01.65.000
0300122	Lever Assembly	1	BB01.72.110
8203920	Retaining Ring N D1500-3.2	1	8203920

Disassembly

Tools required:

- Flat screwdriver

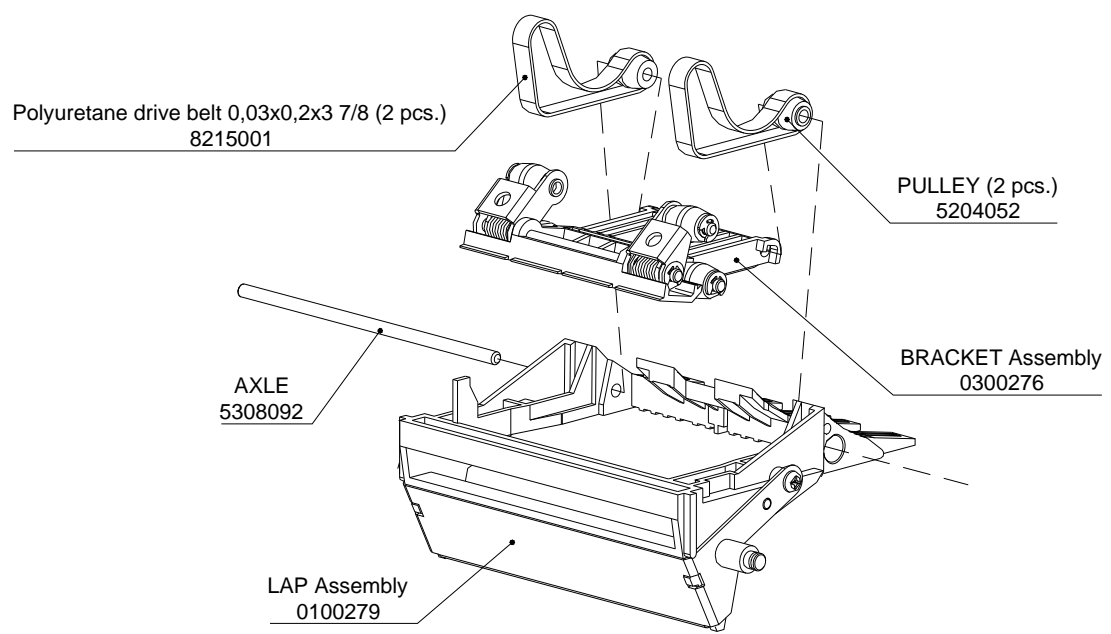
Shaft (0300123) – Exploded view



Part ID	Description	Qty.	
0300097	Pulley Assembly	3	BB01.64.000
5308100	Shaft	1	BB01.77.301
8203920	Retaining Ring N D1500-3.2	2	8203920

Disassembly
Tools required:
 - Flat screwdriver

Guide (0200126) – Exploded view

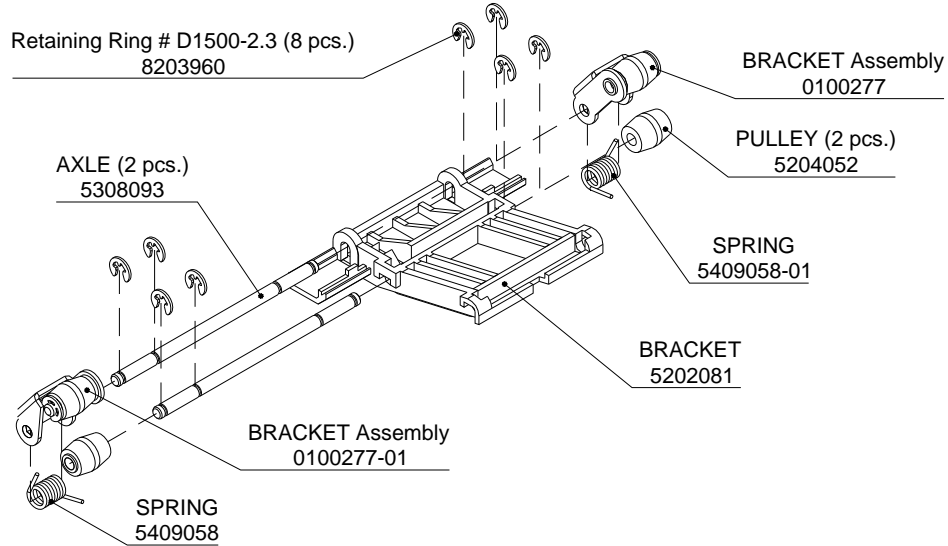


Part ID	Description	Qty.	
0100279	Pawl Assembly	1	BB01.74.200
0300276	Bracket Assembly	1	BB01.74.100
5204052	Pulley	2	BB01.74.001
5308092	Axle	1	BB01.74.004
8215001	U8300-200-03875, Flat belt	2	8215001

Disassembly

Tools required:

Bracket (0300276) – Exploded view



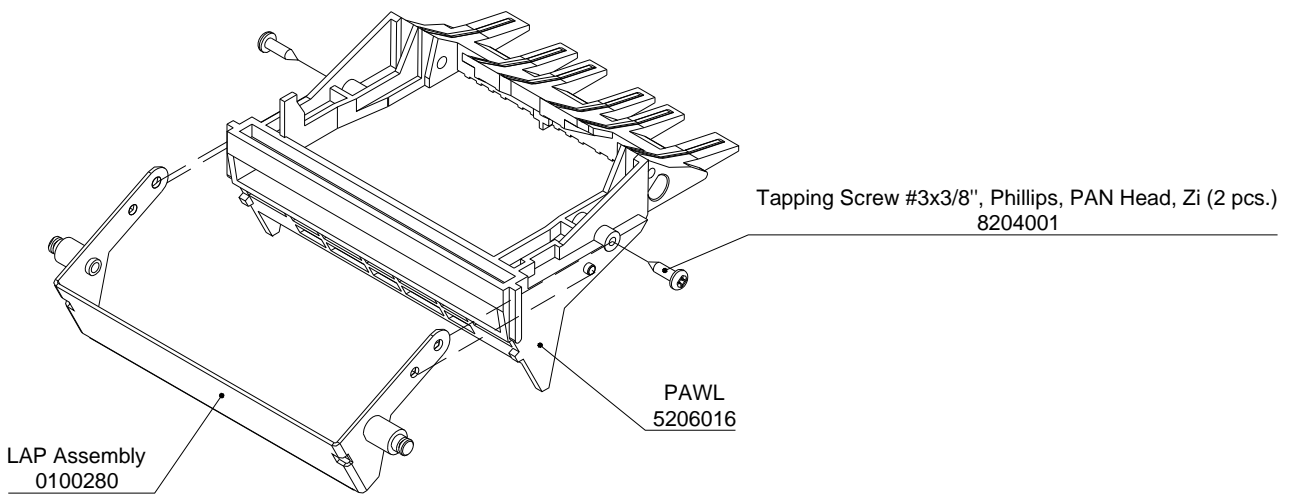
Part ID	Description	Qty.	
0100277	Bracket Assembly	1	BB01.74.110
0100277-01	Bracket Assembly	1	BB01.74.110-01
5202081	Bracket	1	BB01.74.101
5204052	Pulley	2	BB01.74.001
5308093	Axle	2	BB01.74.103
5409058	Spring	1	BB01.74.003
5409058-01	Spring	1	BB01.74.003-01
8203960	Retaining Ring #D1500-2.3	8	8203960

Disassembly

Tools required:

- Flat screwdriver

Pawl (0200279) – Exploded view



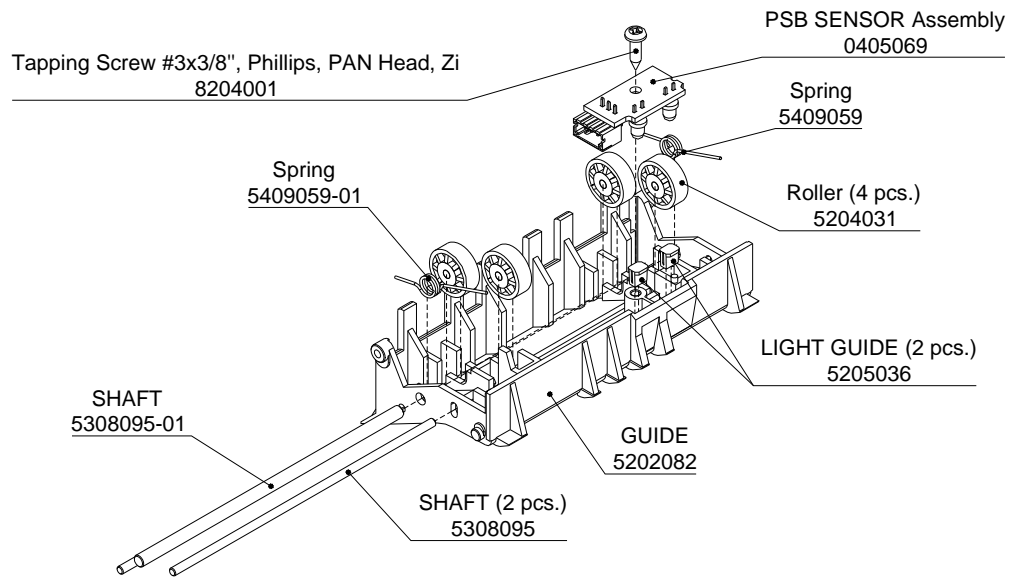
Part ID	Description	Qty.	
0100280	Lap Assembly	1	BB01.74.210
5206016	Pawl	1	BB01.74.201
8204001	Tapping Screw #3x3/8", Ph, Zi	2	8204001

Disassembly

Tools required:

- Philips screwdriver #1

Guide (0200115) – Exploded view



Part ID	Description	Qty.	
0405069	PCB Sensor	1	BB01.75.100
5202082	Guide	1	BB01.75.001
5204031	Roller	4	SM01.00.025
5205036	Light Guide	2	VU02.02.002

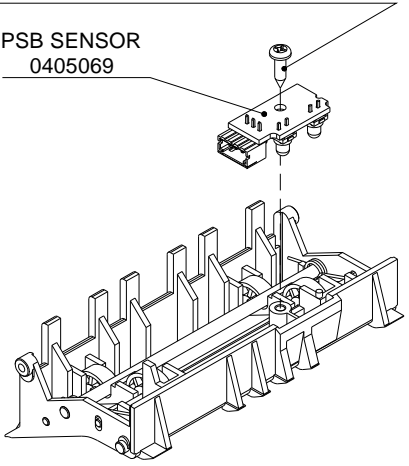
5308095	Shaft	2	BB01.75.002
5308095-01	Shaft	1	BB01.75.002-01
5409059	Spring	1	BB01.75.004
5409059-01	Spring	1	BB01.75.004-01
8204001	Tapping Screw #3x3/8", Ph, Zi	1	8204001

Disassembly

Step 1

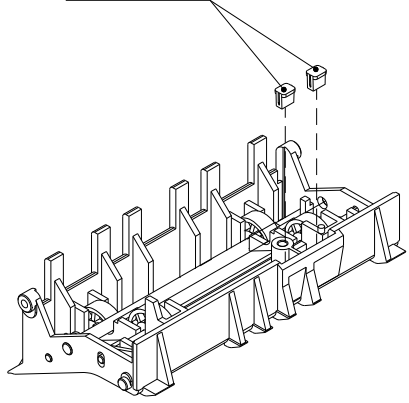
Tapping Screw #3x3/8", Phillips, PAN Head, Zi
8204001

PSB SENSOR
0405069



Step 2

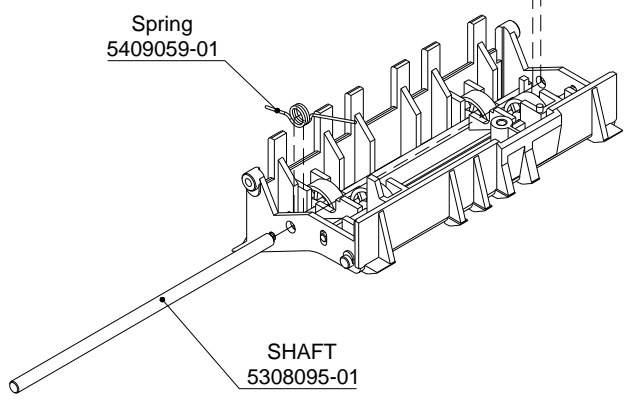
LIGHT GUIDE
5205036



Step 3

Spring
5409059-01

Spring
5409059

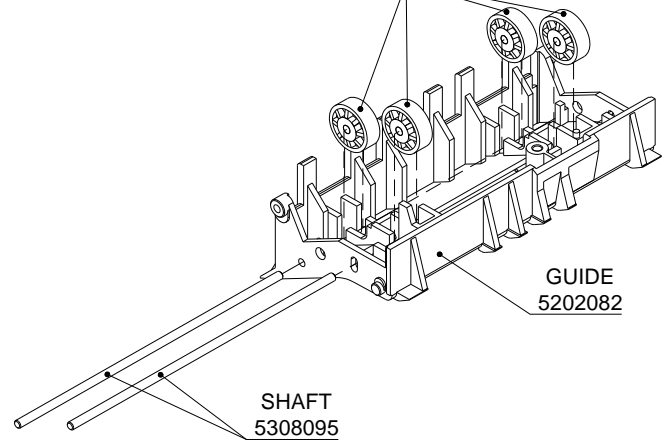


SHAFT
5308095-01

Step 4

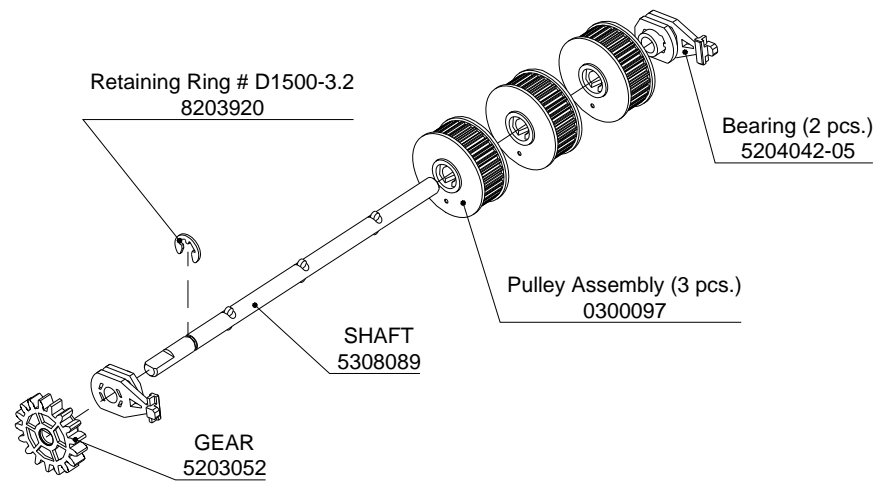
Roller
5204031

GUIDE
5202082



SHAFT
5308095

Drive (0300124) – Exploded view



Retaining Ring # D1500-3.2
8203920

Bearing (2 pcs.)
5204042-05

Pulley Assembly (3 pcs.)
0300097

SHAFT
5308089

GEAR
5203052

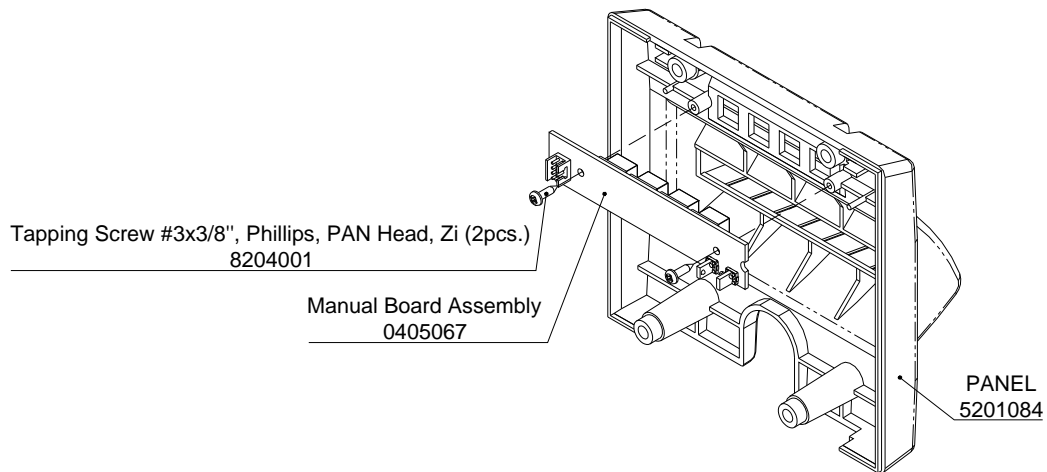
Part ID	Description	Qty.	
0300097	Pulley Assembly	3	BB01.64.000
5203052	Gear	1	BB01.51.007
5204042-03	Bearing	2	BB01.51.006-03
5308089	Shaft	1	BB01.71.301
8203920	Retaining Ring N D1500-3.2	1	8203920

Disassembly

Tools required:

- Flat screwdriver

Panel (0100286) – Exploded view



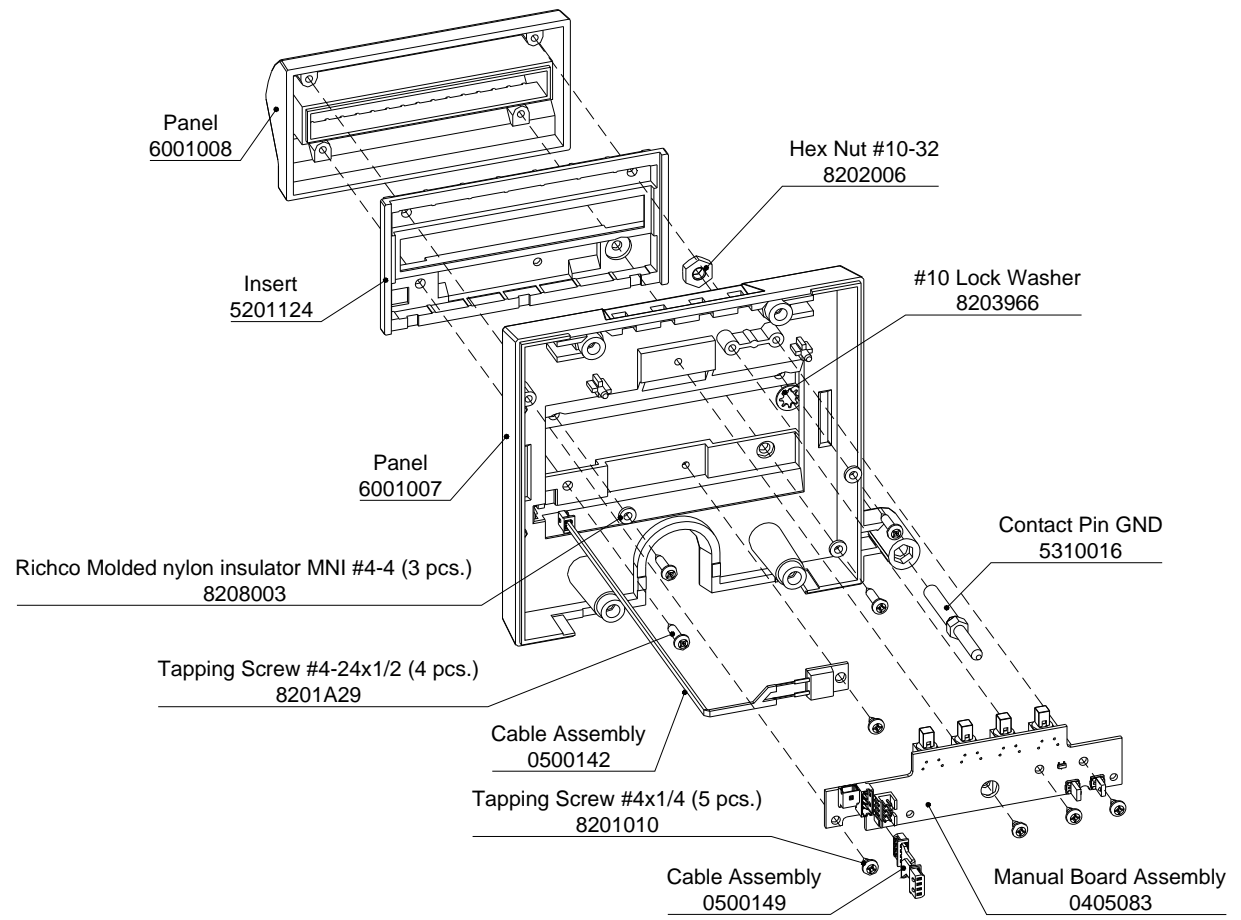
Part ID	Description	Qty.	
0405067	BB01 Manual Board	1	BB01.78.200
5201084	Panel	1	BB01.78.001
8204001	Tapping Screw #3x3/8\", Ph, Zi	2	8204001

Disassembly

Tools required:

- Philips screwdriver #1

Panel (0100376) – Exploded view



Part ID	Description	Qty.
0405083	Manual Board	1
0500142	Cable Assembly	1
0500149	Cable Assembly	1
5201124	Insert	1
5310016	Contact Pin GND	1
6001007	Panel	1

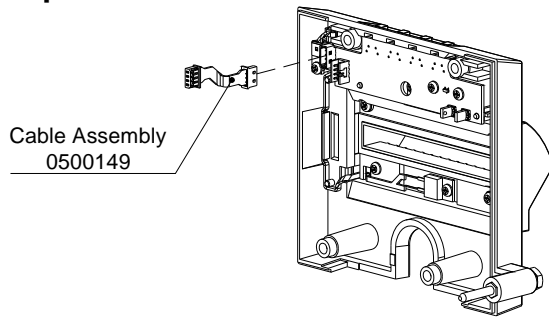
BB01.78.30	6001008	Panel	1	BB01.78.502
BB01.78.52	8201010	Tapping Screw #4-1/4	5	8201010
BB01.76.16	8201A29	Tapping Screw #4-24x1/2	4	8201A29
BB01.78.50	8202006	Hex Nut #10-32	1	8202006
BB01.78.50	8203966	Lock washer #10(M5), Int tooth	1	8203966
BB01.78.50	8208003	Nylon insulator MNI #4-4	3	8208003

Disassembly

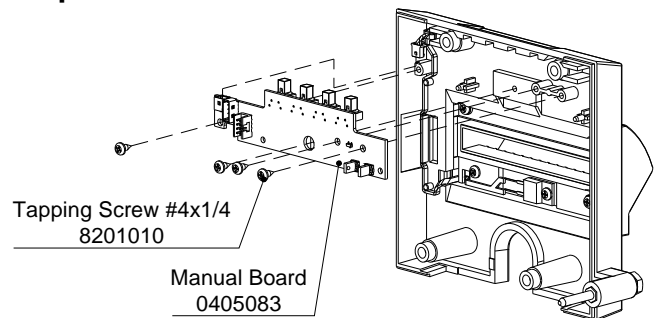
Tools required:

- Philips screwdriver #1

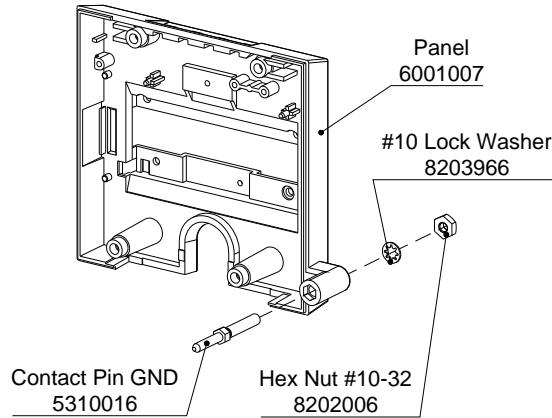
Step 1



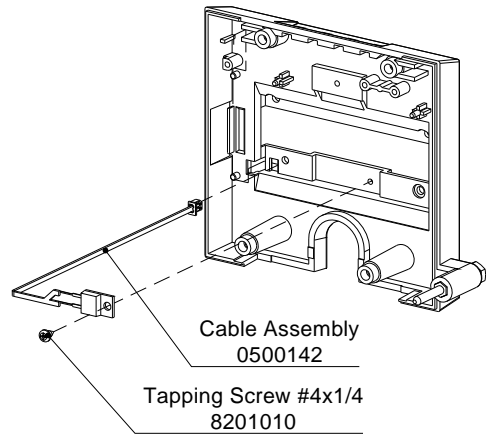
Step 2



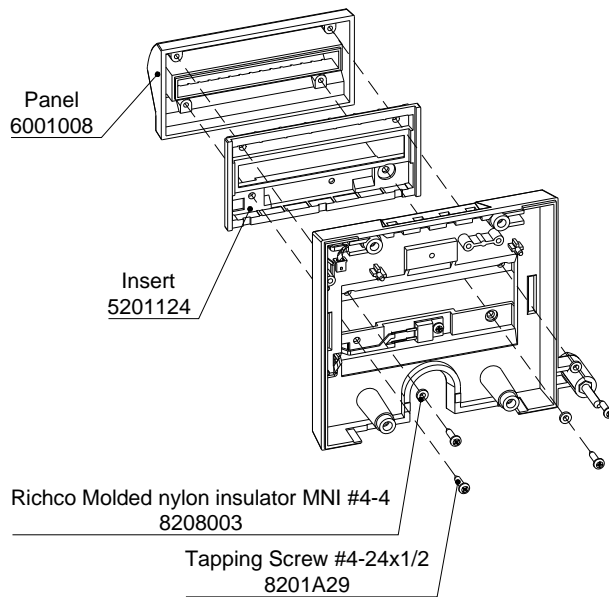
Step 3



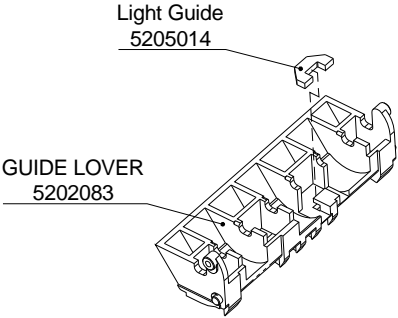
Step 4



Step 5



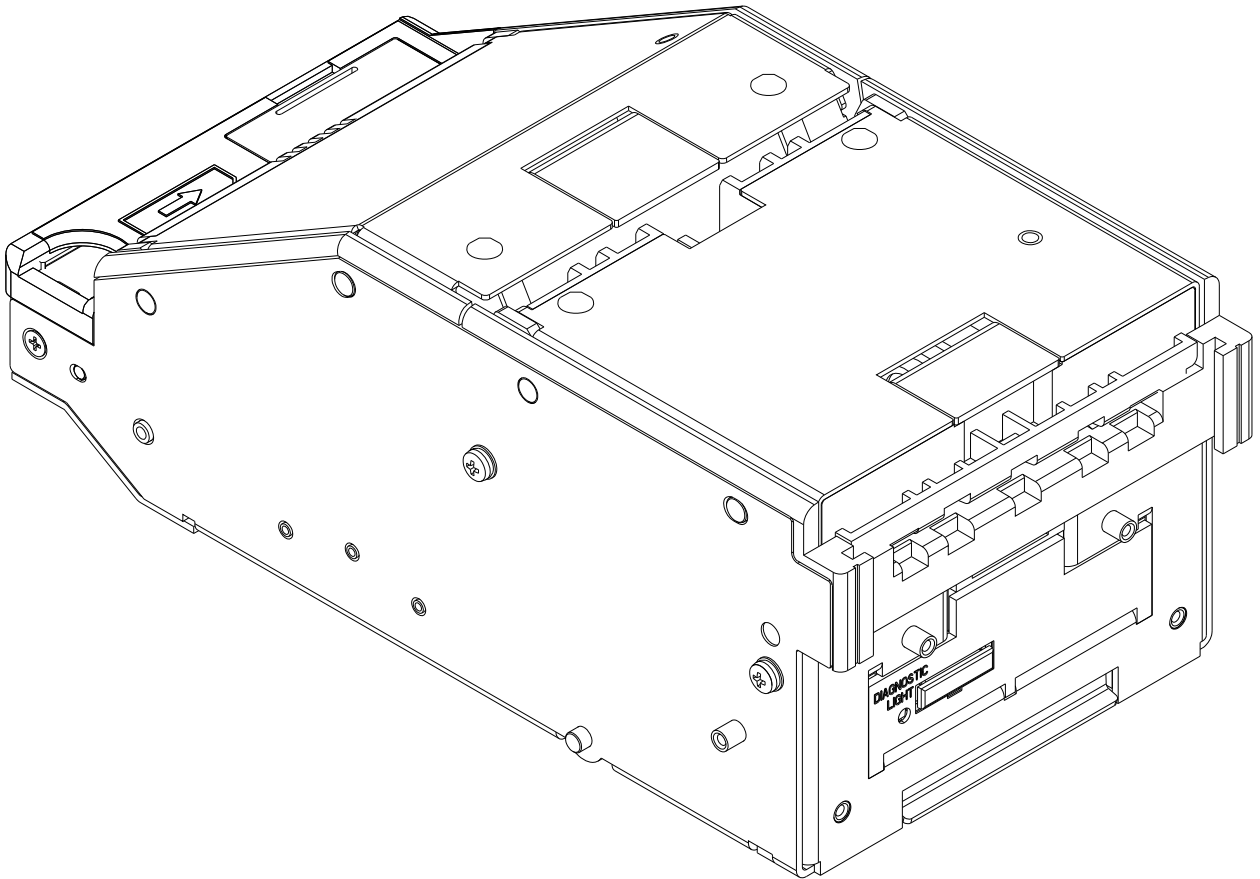
Guide Lover (0200117) – Exploded view



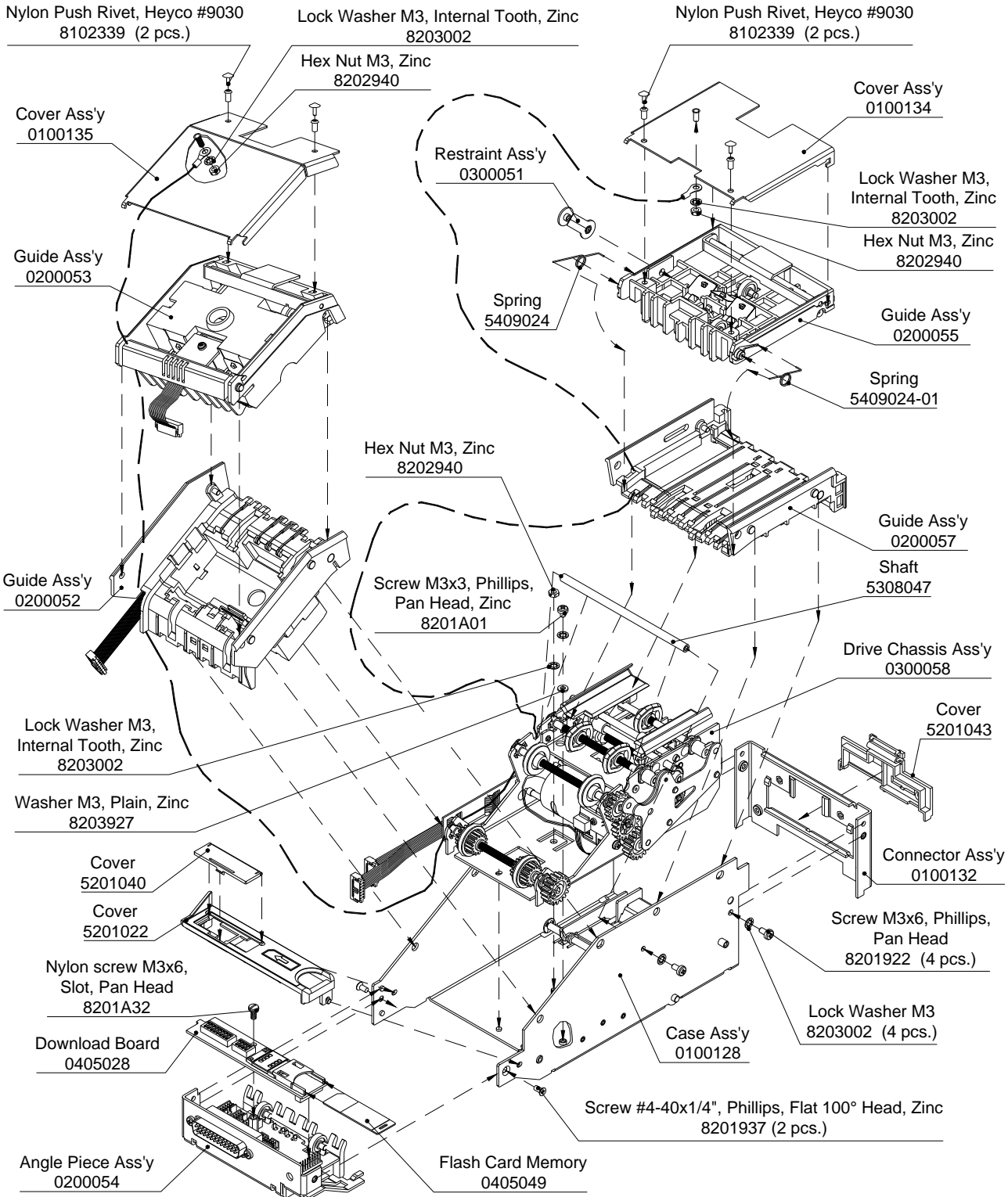
Part ID	Description	Qty.	
5202083	Guide Lower	1	BB01.79.001
5205014	Light guide	1	VU01.06.004

Disassembly
Tools required:
- Tweezers

VALIDATING HEAD



Validating Head (MFLVR2110) – Exploded view



Part ID	Description	Qty.	
0100128	Case Assembly	1	FL04.05.100
0100132	Connector Assembly	1	FL04.05.310
0100134	Cover Assembly	1	FL04.07.000
0100135	Cover Assembly	1	FL04.08.000
0200052	Guide Assembly	1	FL04.03.000
0200053	Guide Assembly	1	FL04.04.000
0200054	Angle piece Assembly	1	FL04.06.000
0200055	Guide Assembly	1	FL08.01.000
0200057	Guide Assembly	1	FL08.02.000
0300051	Restraint Assembly	1	FL04.09.000
0300058	Drive Chassis Assembly	1	FL08.05.200
0405028	FL02-59 Download Board	1	FL02.59.000
5110003	Washer	2	ST01.14.006
5201022	Cover	1	FL04.00.003
5201040	Cover	1	FL04.00.004
5201043	Cover	1	FL04.00.007
5308047	Shaft (Connector)	1	FL04.05.005
5409024	Spring	1	FL04.00.005
5409024-01	Spring	1	FL04.00.005-01
8102003	Nylon Push Rivet SR-3055B	4	8102003
8201000	Screw M3x6, Phil., Pan Head, Zinc	4	8201000
8201538	Screw M3x4, PAN Head, Ph, Zinc	1	8201538
8201937	Screw #4-40x1/4, Ph, Flat Head	2	8201937
8201A32	Nylon Screw M3x6	1	8201A32
8202309	Jam Nut, Hex, M3, Zn	3	8202309
8203002	Lock Washer M3, Internal teeth	8	8203002
8203927	Flat Washer M3, Zinc	1	8203927

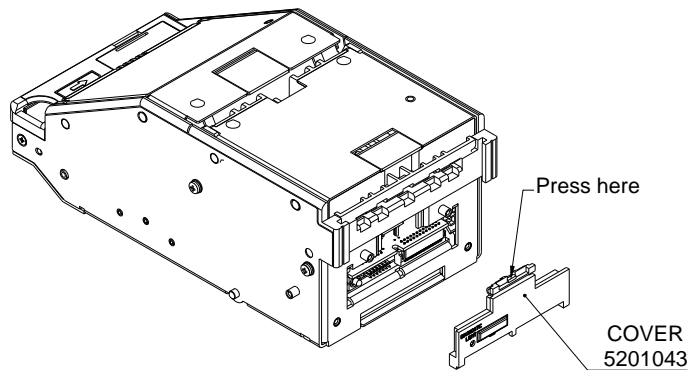
Disassembly

Tools required:

- Flat screwdriver
- Philips screwdriver #1
- Extractor #5110050
- Hex nut wrench (5.5 mm)
- Tweezers

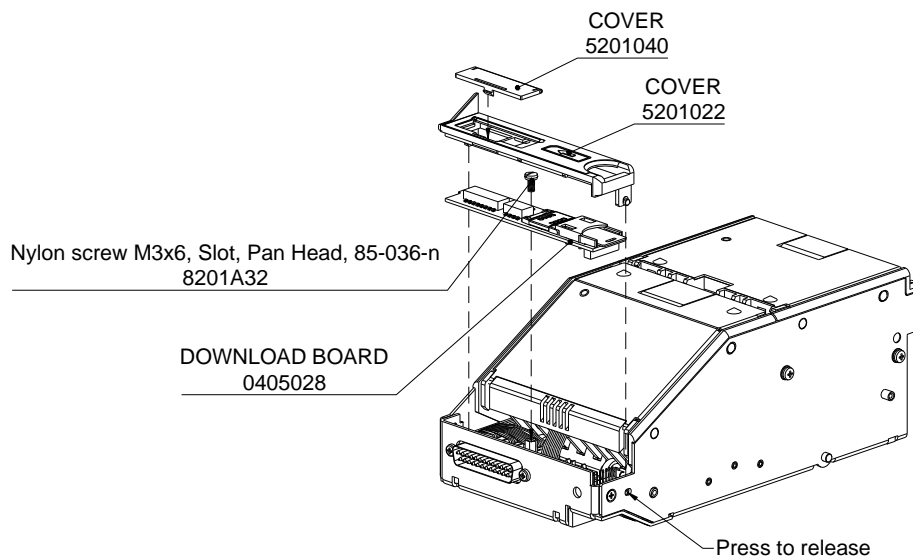
Step 1

Remove plastic cover by opening latch with screw-driver



Step 2

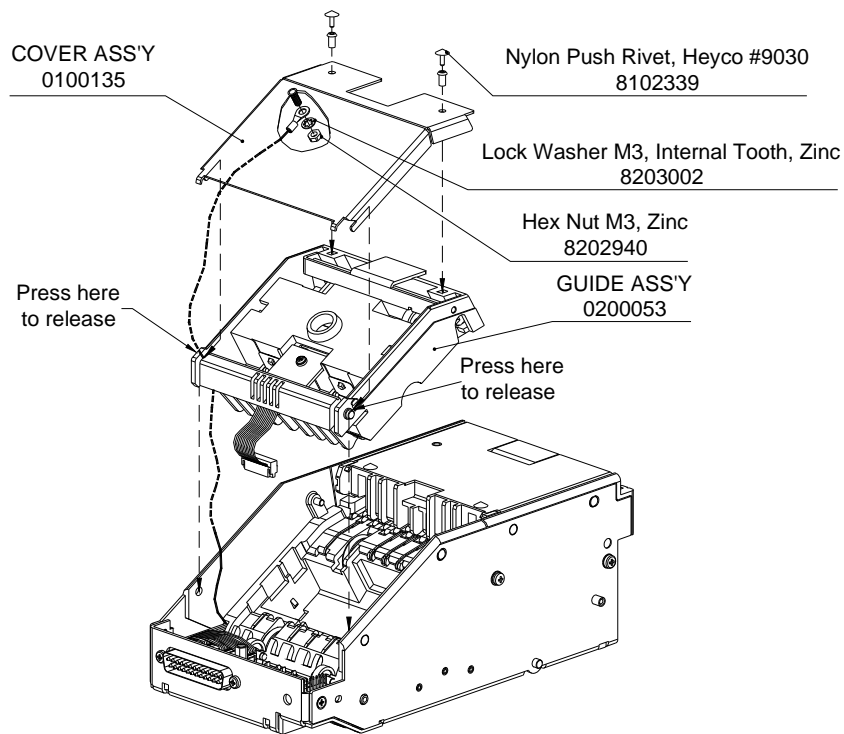
Remove covers and download board.



Step 3

Remove cover and guide, by following instructions below:

- Pull out two nylon push rivets and remove cover #0100135
- Remove hex nut and disconnect cable from the cover
- Disconnect ribbon cable
- Open the Guide by releasing the latch
- Press on the guide near the guide axis
- Remove the Guide

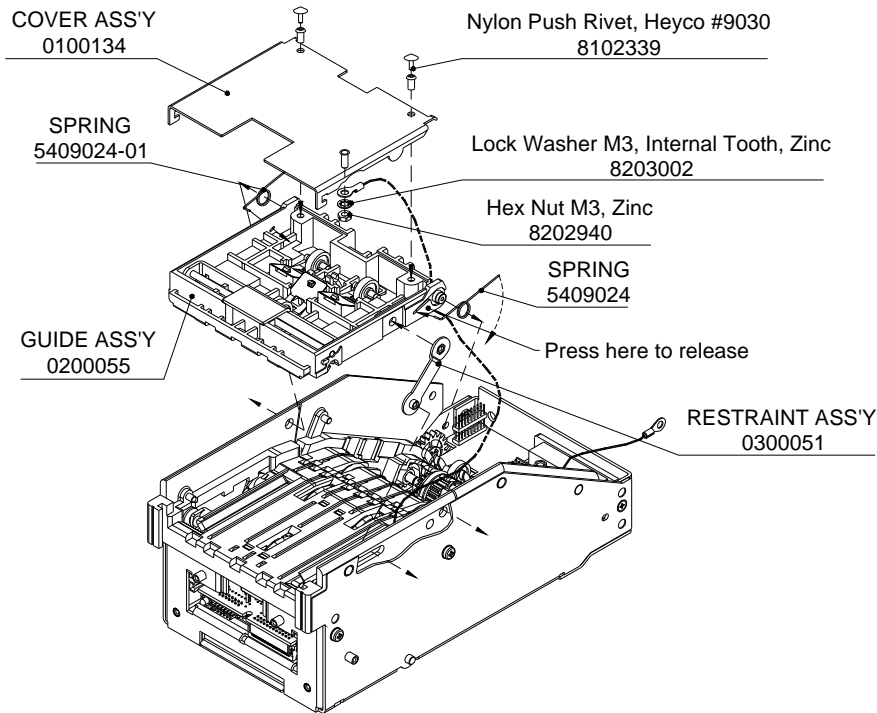


Step 4

Remove cover and guide, by following instructions below:

- Pull out two nylon push rivets and remove cover #0100134
- Remove hex nut and disconnect cable from the cover
- Open the guide by releasing the latch, and press on the guide near guide axis
- Remove the guide

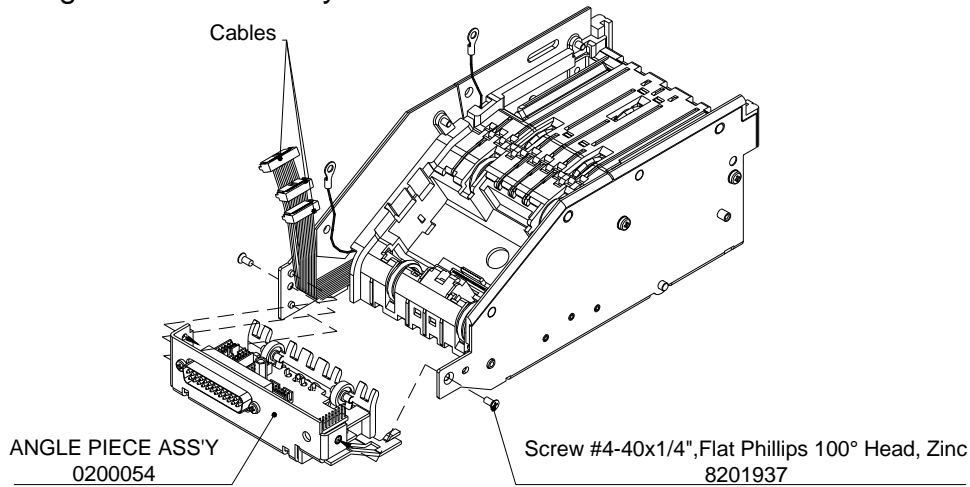
Pay attention! Restraint Assembly and springs are not secured to the guide.



Step 5

Remove angle piece assembly, by following instructions below:

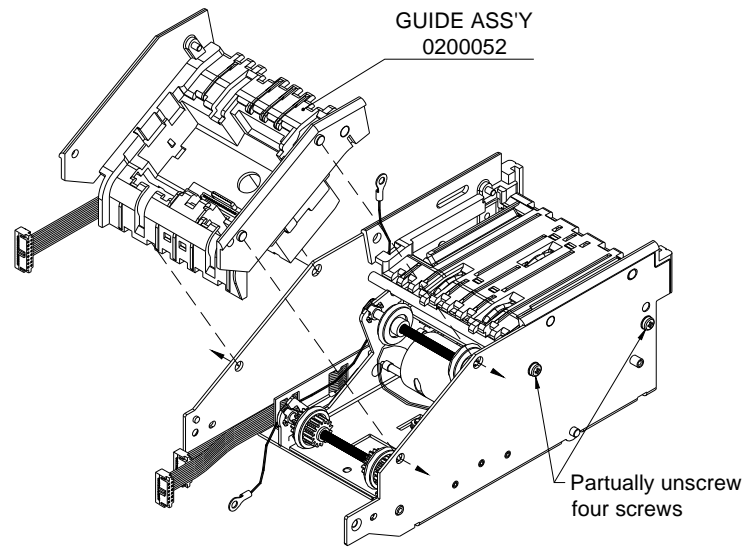
- Disconnect three cables from controller board
- Remove two screws
- Remove Angle Piece Assembly



Step 6

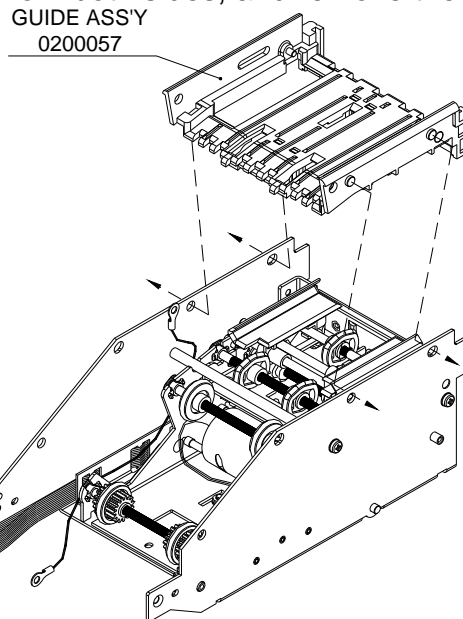
Remove Guide #0200052, by following instructions below:

- Partially remove four M3 screws
- Squeeze walls of the guide from both sides, and remove the guide from the case

**Step 7**

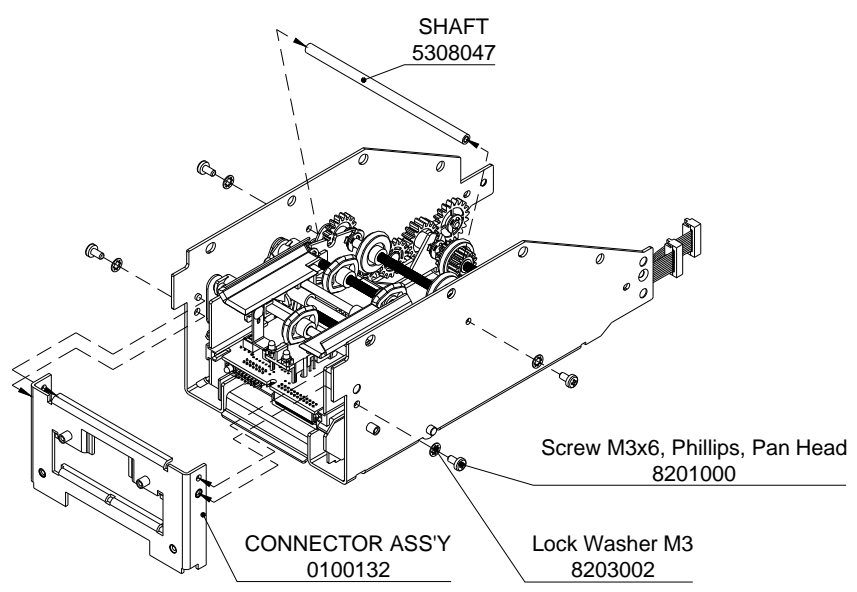
Remove guide #0200051, by following instructions below:

- Squeeze walls of the guide from both sides, and remove the guide from the Case.

**Step 8**

Remove connector #0100132, by following instructions below:

- Remove 4 M3x6 screws
- Remove connector
- Remove shaft

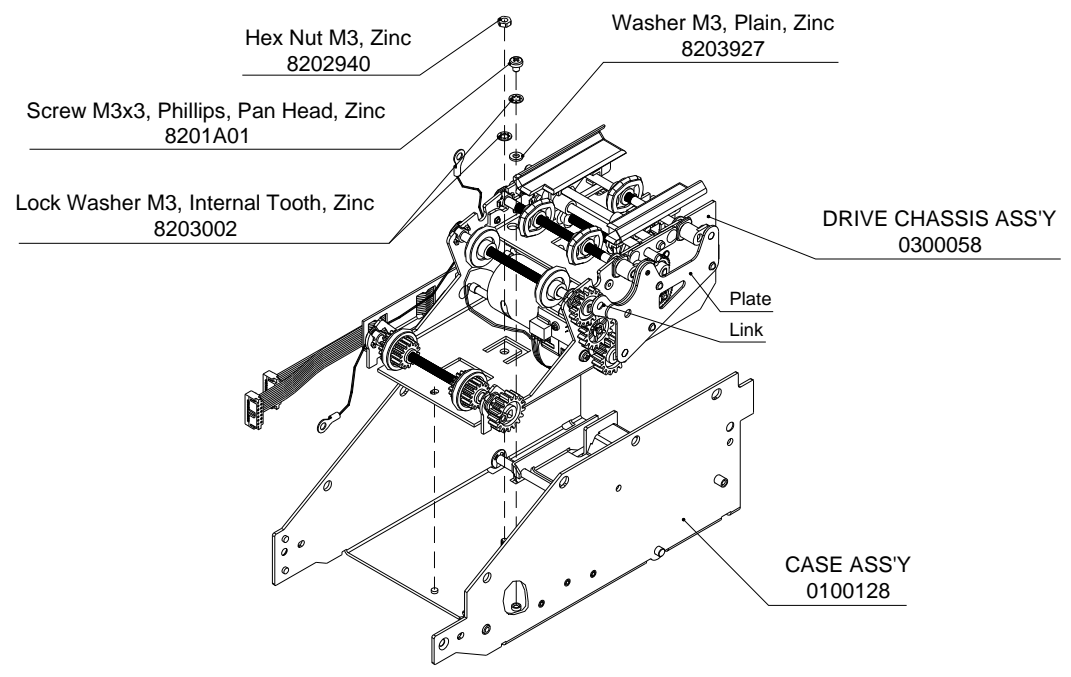


Step 9

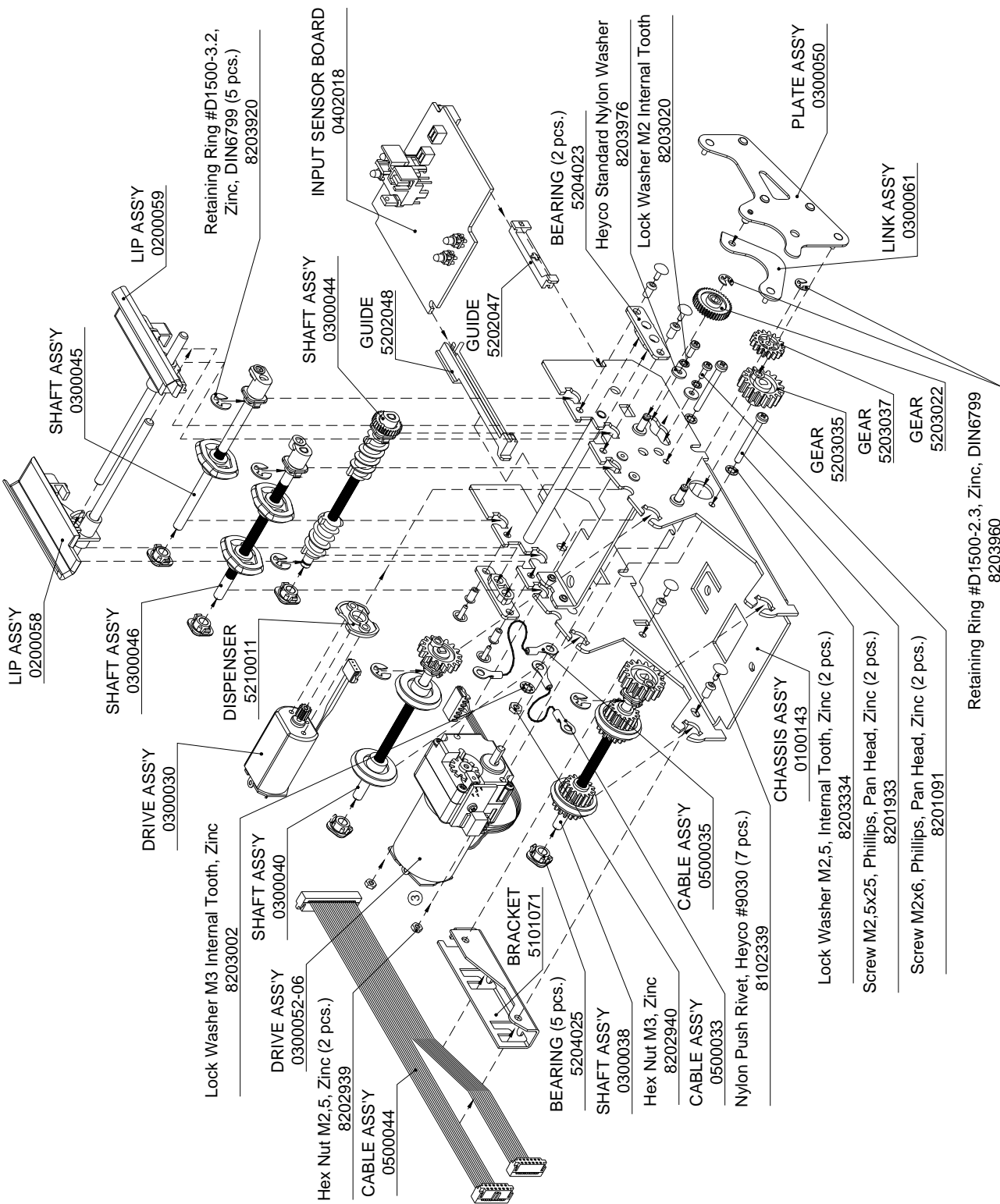
Remove Drive Chassis Assembly, by following instructions below:

- Remove M3x3 screw
- Remove M3 hex nut
- Remove drive chassis assembly

Pay attention! Plate and link are not secured to the drive chassis.



Drive Chassis (0300049) – Exploded view



Part ID	Description	Qty.	
0100143	Chassis Assembly	1	FL08.05.210
0200058	Lip Assembly	1	FL08.05.220
0200059	Lip Assembly	1	FL08.05.230
0300030-02	Drive Assembly	1	FL08.05.400-02
0300038	Shaft Assembly	1	FL04.05.240
0300040	Shaft Assembly	1	FL04.05.260
0300044	Shaft Assembly	1	FL08.05.240
0300045	Shaft Assembly	1	FL08.05.250
0300046	Shaft Assembly	1	FL08.05.290
0300050	Plate Assembly	1	FL04.05.230
0300052-06	Drive Assembly	1	FL04.20.000-06
0300061	Link Assembly	1	FL04.05.270
0402018	Input Sensor Board	1	FL02.60.000
0500032	Cable Assembly	1	FL08.05.420
0500033	Cable Assembly	1	FL04.05.400
0500035	Cable Assembly	1	FL04.05.300
0500044	Cable Assembly	1	FL04.05.280
0500062	Cable Assembly	1	FL04.20.200
5202047	Guide	1	FL04.05.214
5202048	Guide	1	FL04.05.215
5203022	Gear	1	FL08.05.201
5203035	Gear	1	FL04.05.242
5203037	Gear	1	FL04.05.206
5204023	Bearing	2	FL08.05.203
5204025	Bearing	5	VU01.05.001
5210011	Gasket (dispenser)	1	FL08.05.202
8102003	Nylon Push Rivet SR-3055B	6	8102003
8201922	Screw M2x6, Phil, Pan Head, Zinc	2	8201922
8201933	Screw M2.5x25, Phil, Pan Head, Zi	2	8201933
8202309	Jam Nut, Hex, M3, Zn	1	8202309
8202939	Hex Nut M2.5, Zinc	2	8202939
8203002	Lock Washer M3, Internal teeth	1	8203002
8203020	Lock Washer M2	2	8203020
8203334	Lock Washer M2.5, Int.Teeth, Zn	2	8203334
8203920	Retaining Ring N D1500-3.2	5	8203920
8203960	Retaining Ring #D1500-2.3	2	8203960
8203976	Standard Nylon Washer X050	2	8203976
8214003	Micro Wire Saddle MWSET2-2-01	2	8214003

Disassembly

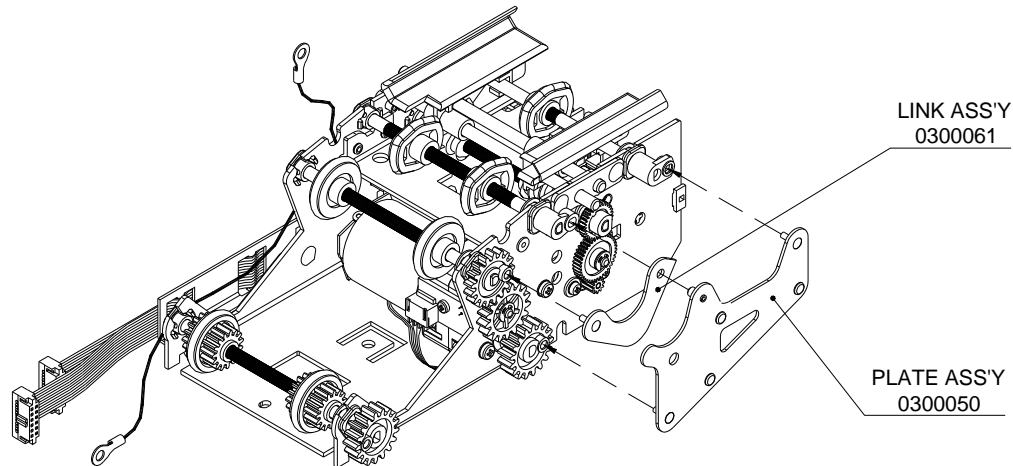
Tools required:

- Flat screwdriver
- Philips screwdriver #1
- Tweezers

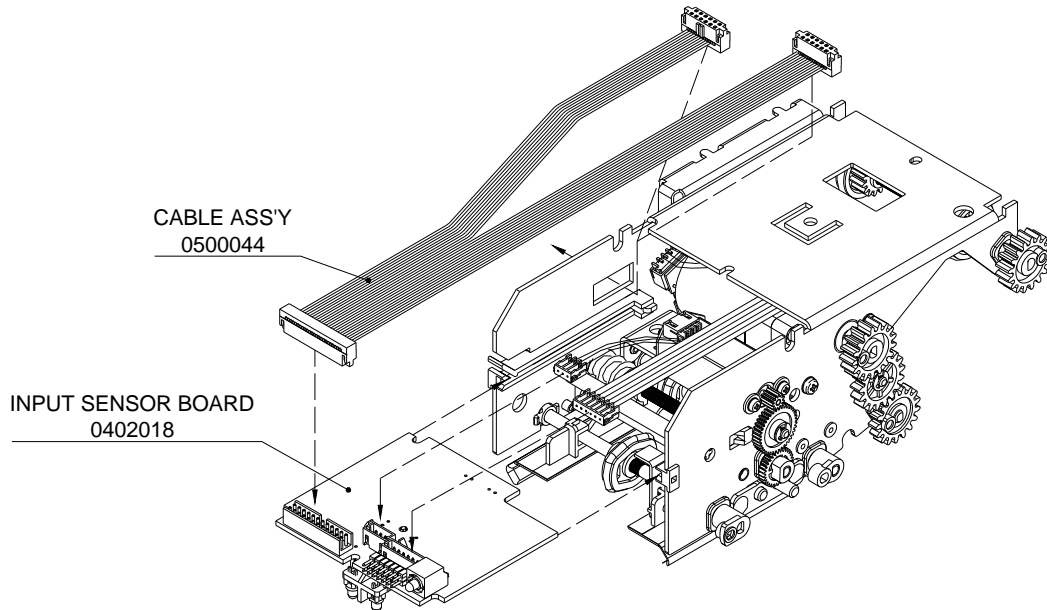
Step 1

Remove plate and link.

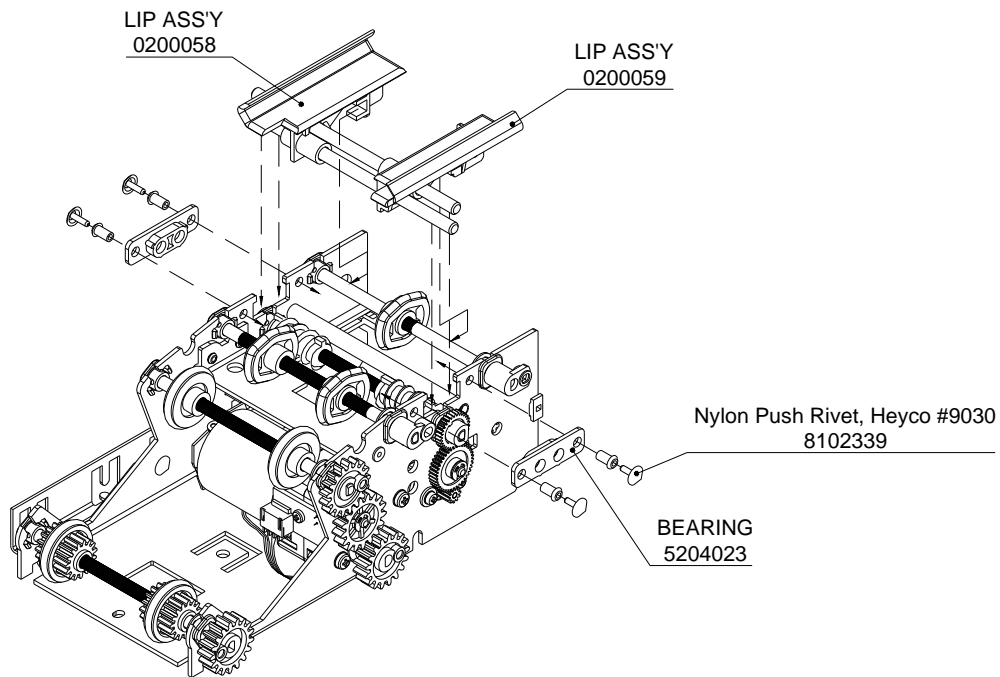
When assembling, pay attention that all 4 pins are properly seated in their holes.

**Step 2**

- Remove input sensor board and cables
- Remove the input sensor board by pressing on the latch
- When assembling, place cable #0500044 as shown for drive chassis #0300049.

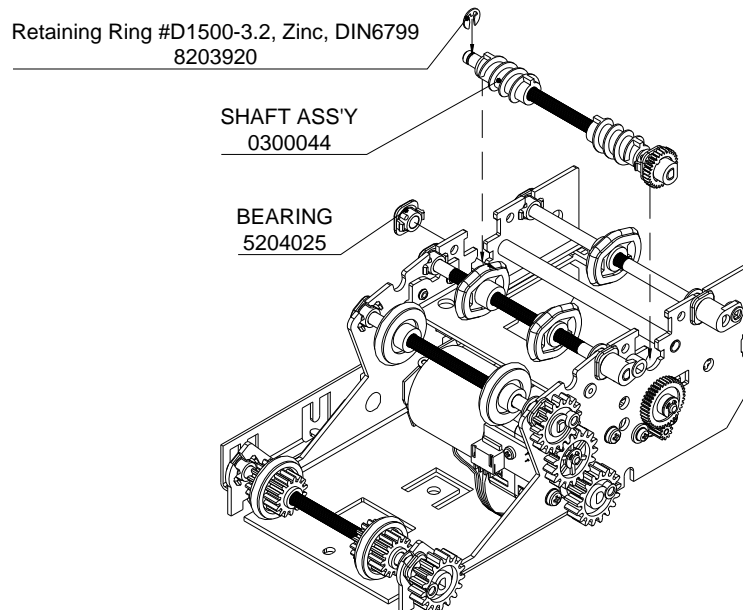
**Step 3**

- Pull out four nylon push rivets, by removing the bearings and lips
- When assembling; ensure the lips are properly positioned on the roller shaft



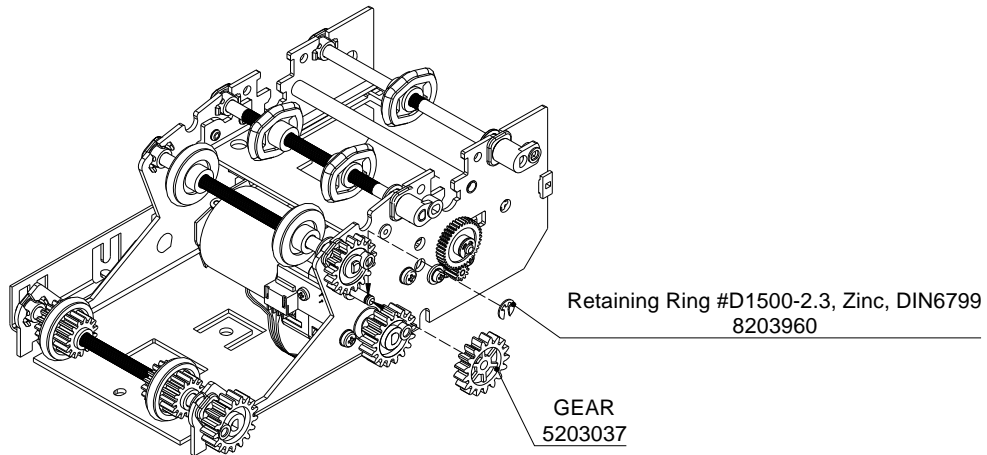
Step 4

- Remove retaining ring by pressing the latches on the bearings
- Remove them with the shafts from the chassis
- When assembling, add Super Lube with Syncon (PTFE) lubricant to all bearings and gears— except O-Rings



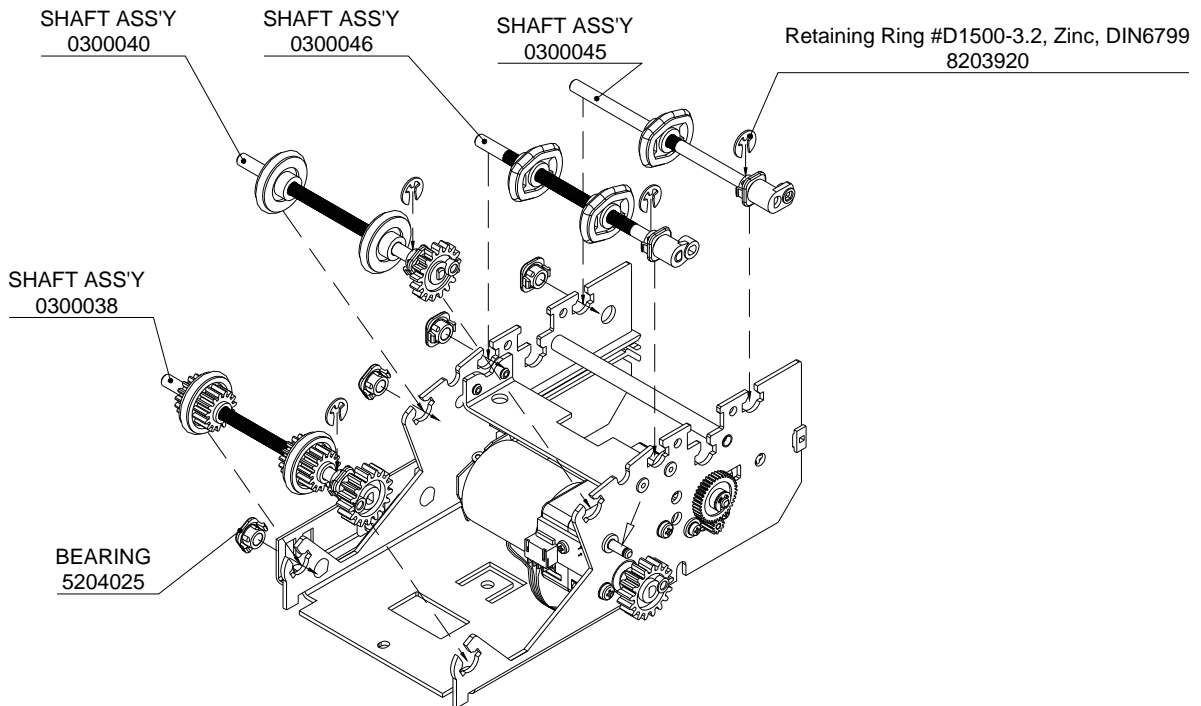
Step 5

- Remove the retaining ring and gear
- When assembling, both mating gears must be oriented in the same direction



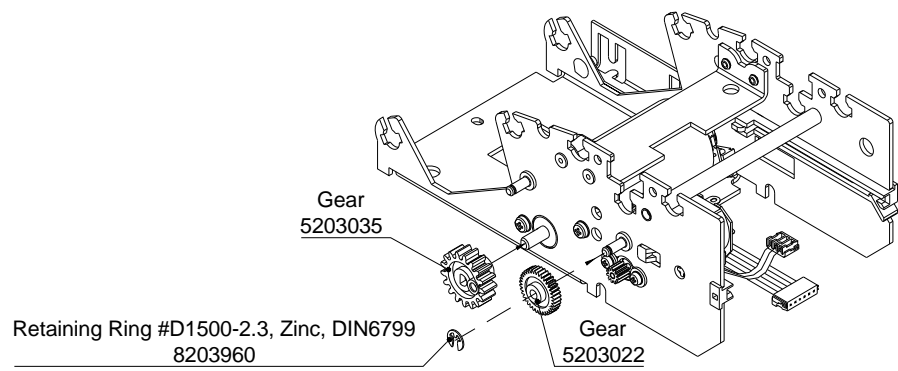
Step 6

- Remove retaining ring by pressing on the latches on the bearings
- Remove them with the shafts from the chassis
- When assembling, add Super Lube with Syncolon (PTFE) lubricant to all bearings and gears— except O-Rings



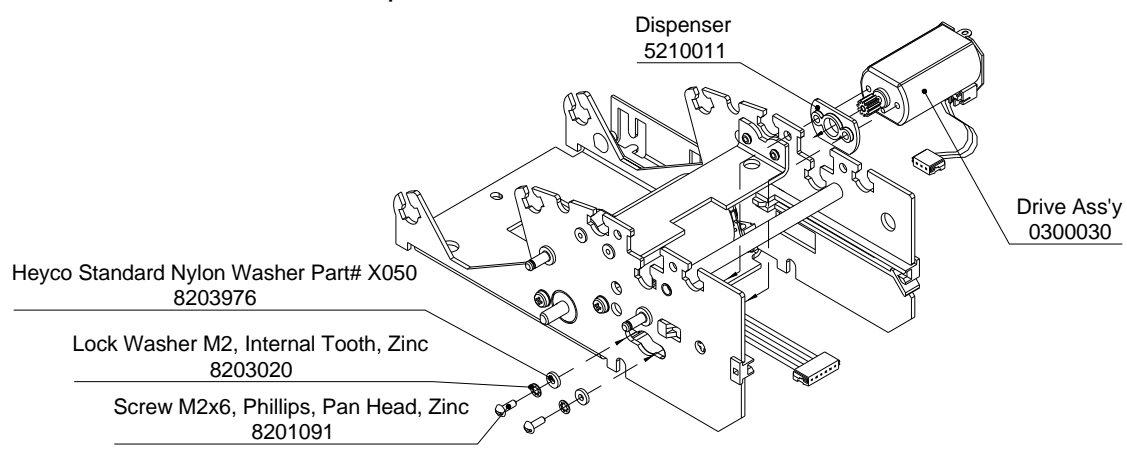
Step 7

- Remove the gear from the shaft of the drive
- Remove retaining ring
- Remove the other gear



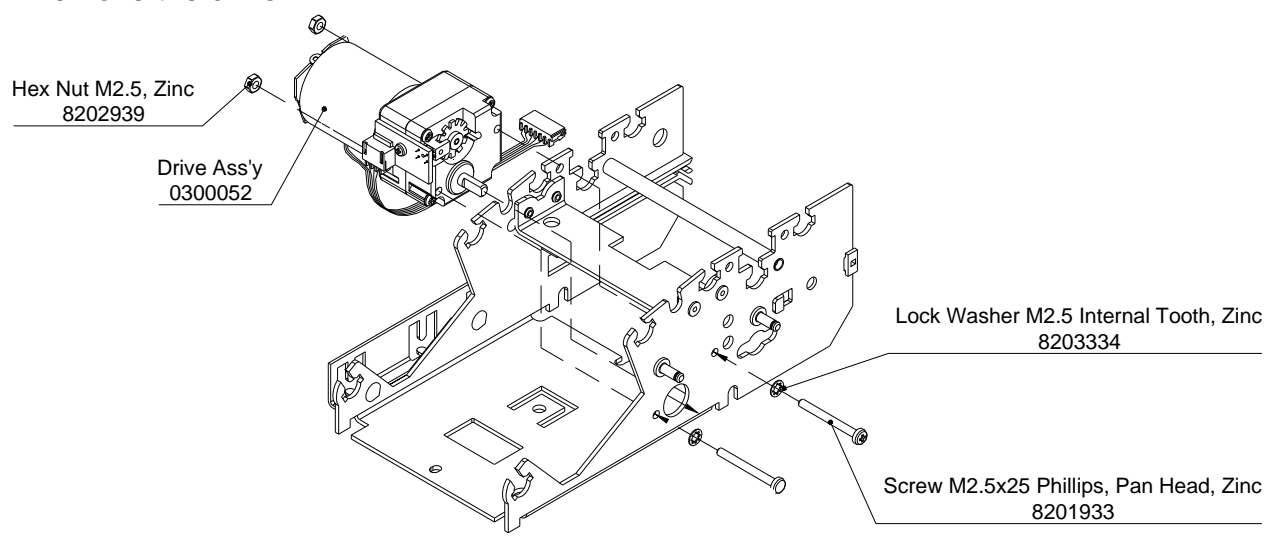
Step 8

- Remove two screws
- Remove the drive and the dispenser

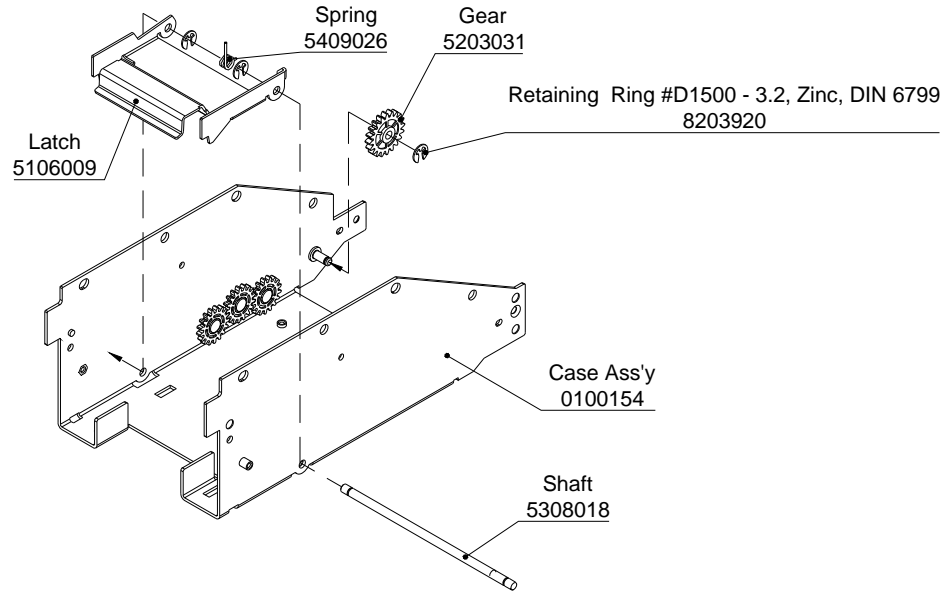


Step 9

- Remove two screws
- Remove the drive



Case (0100128) – Exploded view



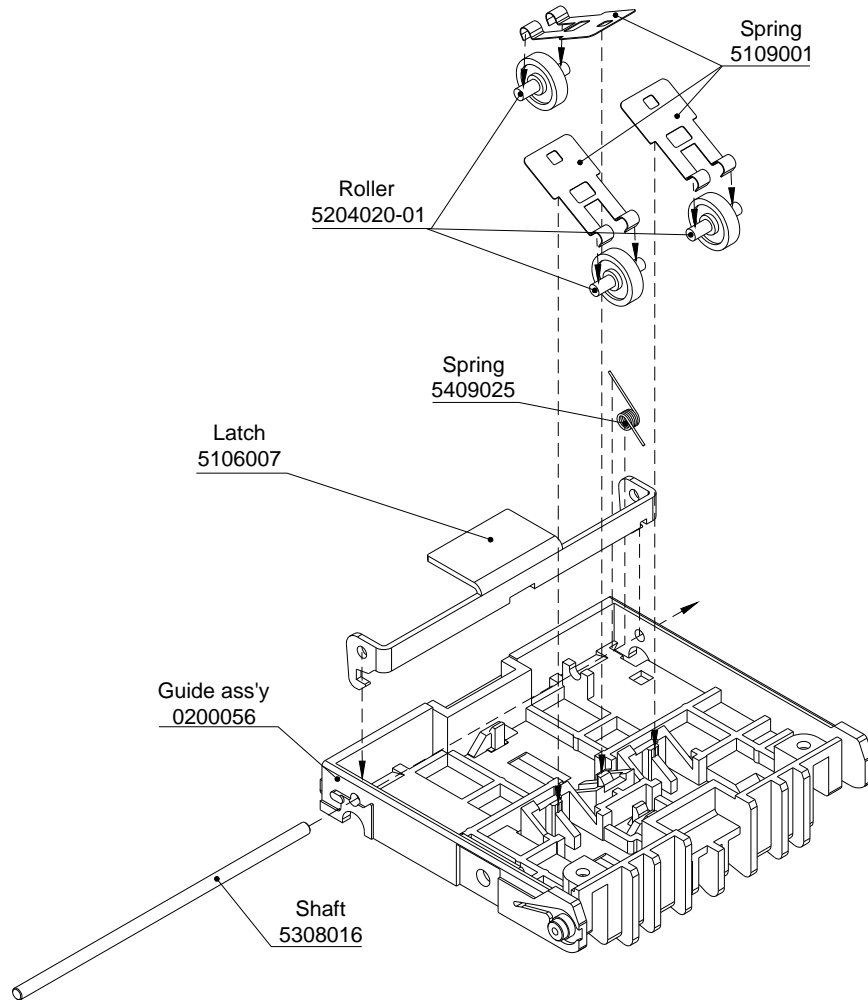
Part ID	Description	Qty.	
0100154	Case Assembly	1	FL04.05.110
5106009	Latch	1	FL04.05.001
5203031	Gear	1	FL04.05.102
5308018	Shaft	1	FL04.05.002
5409026	Spring	1	FL04.05.003
8203920	Retaining Ring N D1500-3.2	3	8203920

Disassembly

Tools required:

- Flat screwdriver
- Tweezers

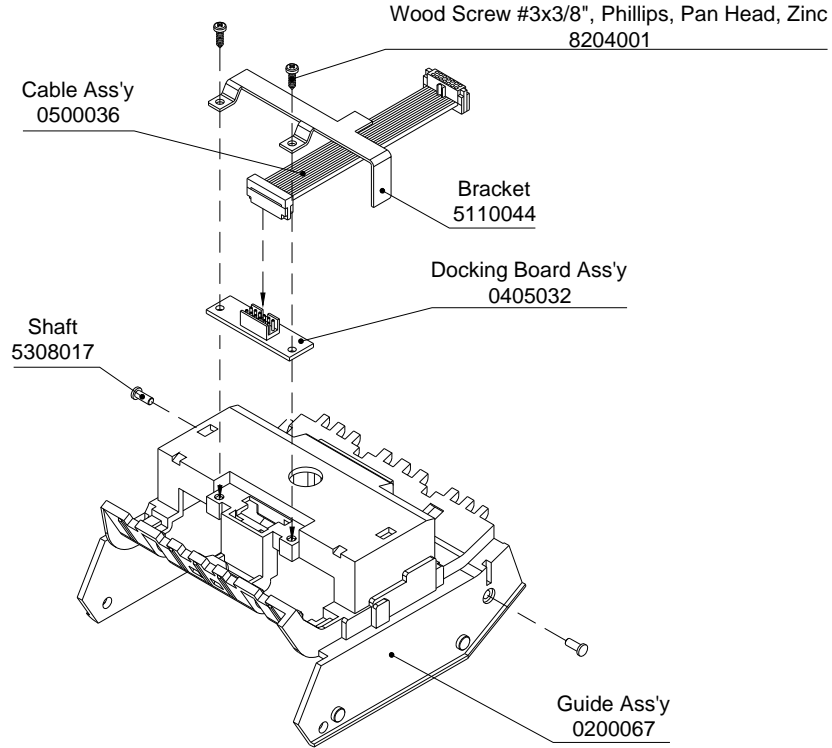
Guide (0200055) – Exploded view



Part ID	Description	Qty.	
0200056	Guide Assembly	1	FL08.01.100
5106007	Latch	1	FL04.01.002
5109001	Flat spring	3	ST01.00.014
5204020-01	Roller	3	FL04.06.002-01
5308016	Shaft	1	FL04.01.004
5409025	Spring	1	FL04.01.005

Disassembly

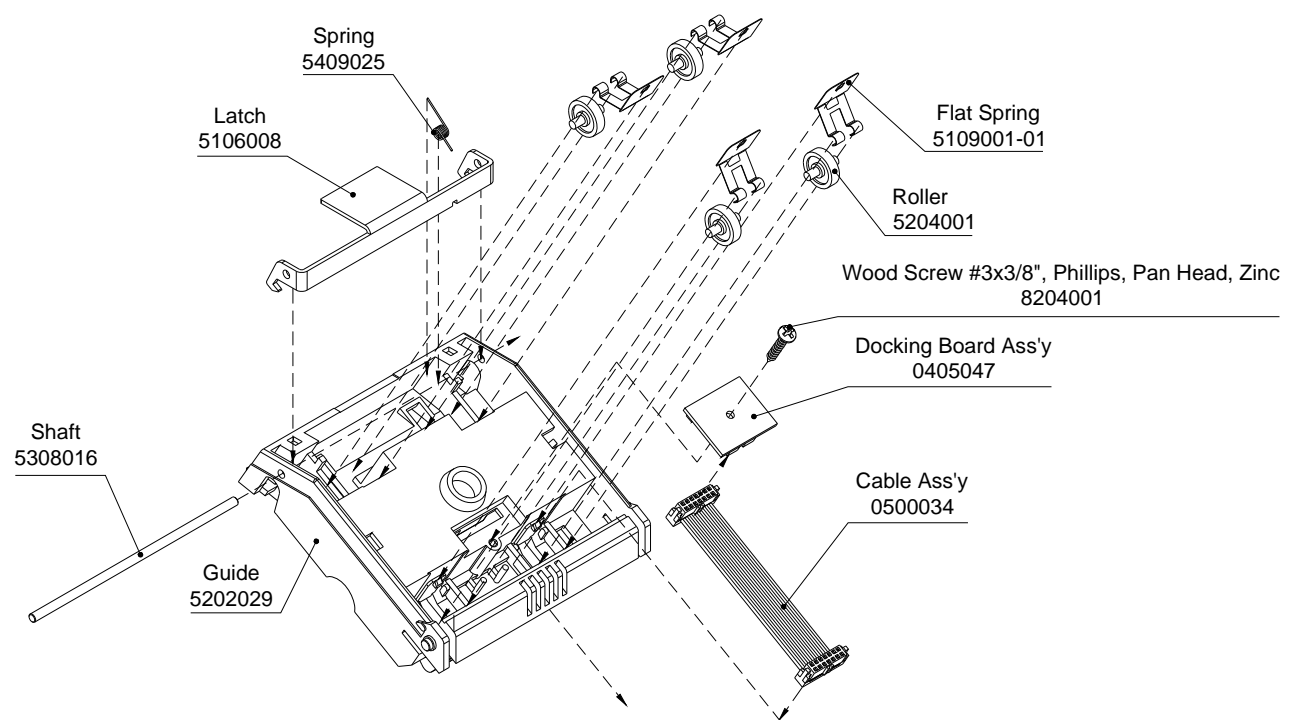
Guide (020052) – Exploded view



Part ID	Description	Qty.	
0200067	Guide Assembly	1	FL04.03.100
0405032	Docking Board	1	FL02.52.000
0500036	Cable Assembly	1	FL04.12.000
5110044	Bracket	1	FL04.03.010
5308017	Shaft	2	FL04.02.002
8203334	Lock Washer M2.5, Int.Teeth, Zn	2	8203334
8204001	Tapping Screw #3x3/8", Ph, Zi	2	8204001

Disassembly

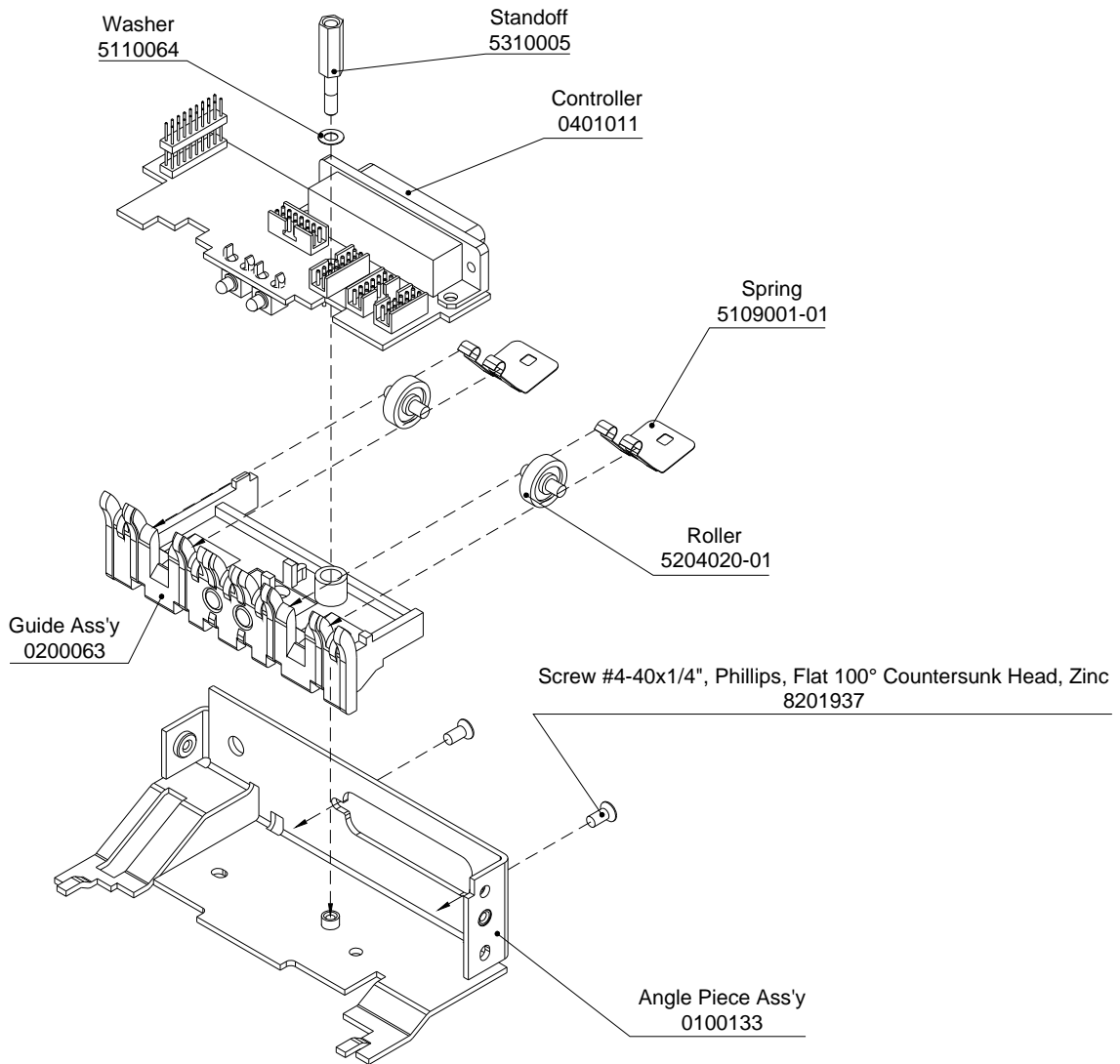
Guide (020053) – Exploded view



Part ID	Description	Qty.	
0405047	Docking Board	1	FL02.53.000
0500034	Cable Assembly	1	FL04.11.000
5106008	Latch	1	FL04.04.002
5109001-01	Spring	4	ST01.00.014-01
5202029	Guide	1	FL04.04.001
5204001	Roller, U/G	4	BV01.00.007
5308016	Shaft	1	FL04.01.004
5409025	Spring	1	FL04.01.005
8204001	Tapping Screw #3x3/8", Ph, Zi	1	8204001

Disassembly

Angle Piece (020054) – Exploded view



Part ID	Description	Qty.	
0100133	Angle piece Assembly	1	FL04.06.200
0200063	Guide Assembly	1	FL04.06.100
0401011	FL02-51 CPU Board	1	FL02.51.000
5109001-01	Spring	2	ST01.00.014-01
5110064	Washer	1	FL04.06.004
5204020-01	Roller	2	FL04.06.002-01
5310005	StandOff	1	FL04.06.003
8201937	Screw #4-40x1/4, Ph, Flat Head	2	8201937

Disassembly

SENSE-A-CLICK SENSOR SET

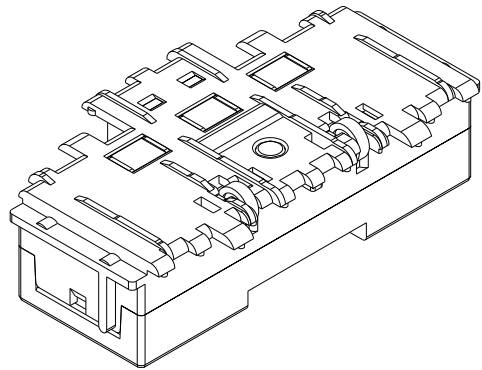
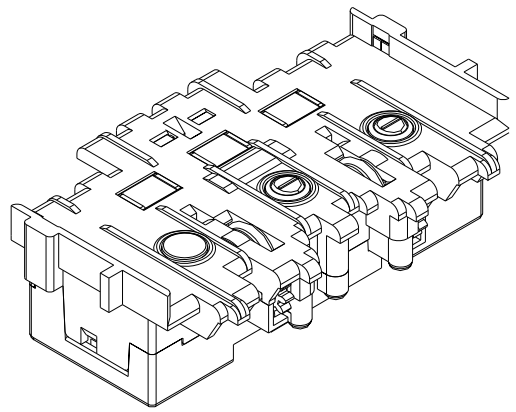
LOWER MODULES

UPPER MODULES

FLSR1704
FLSR1705

FLSR1704L
FLSR1705L

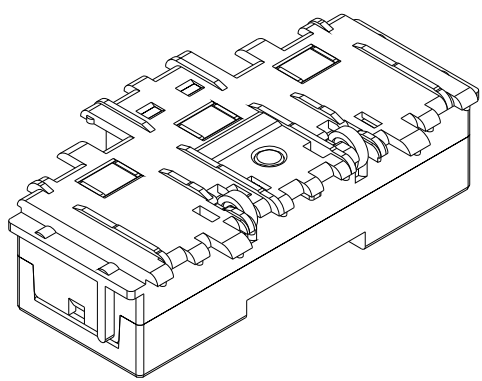
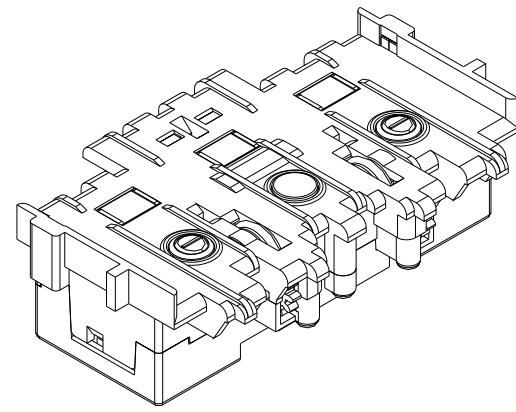
FLSR1704U
FLSR1705U



FLSR1801

FLSR1801L

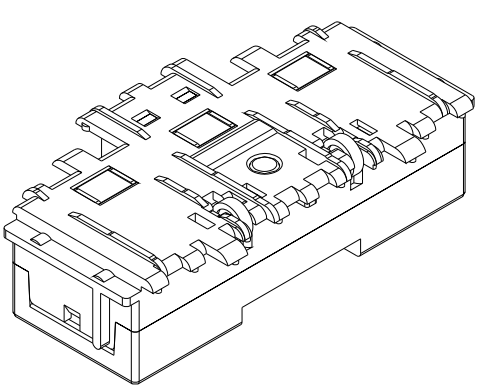
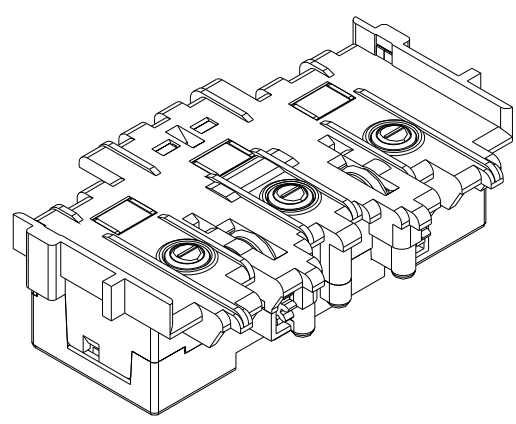
FLSR1801U



FLSR1901

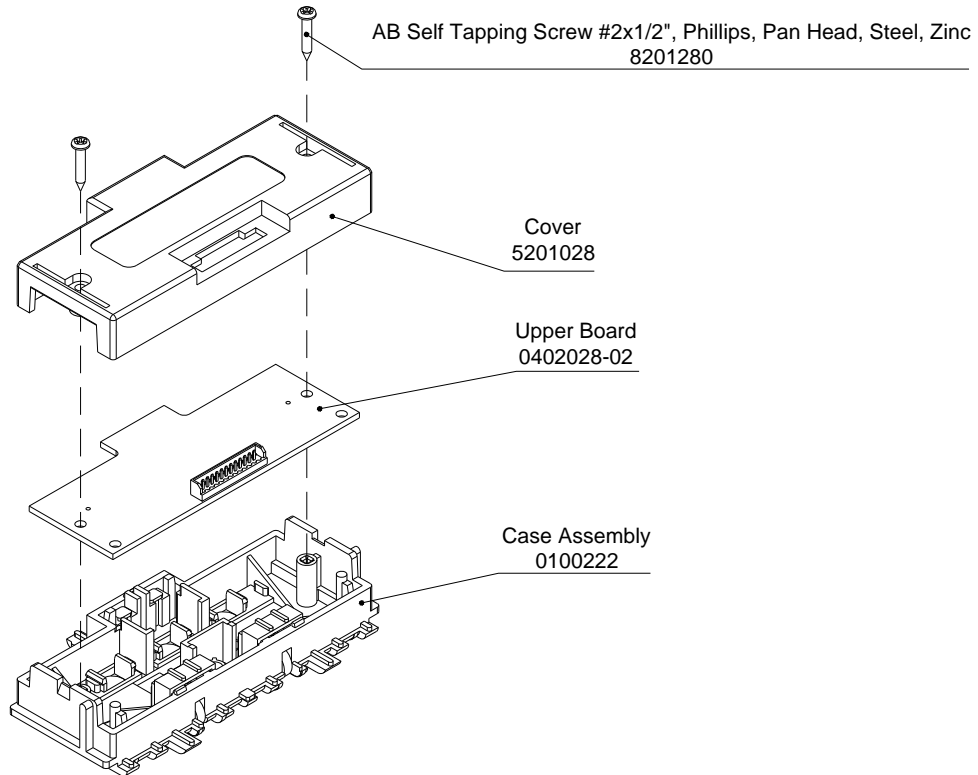
FLSR1901L

FLSR1901U



For Sense-a-Click modules, designations refer to pages 1-15 of the Operations Manual

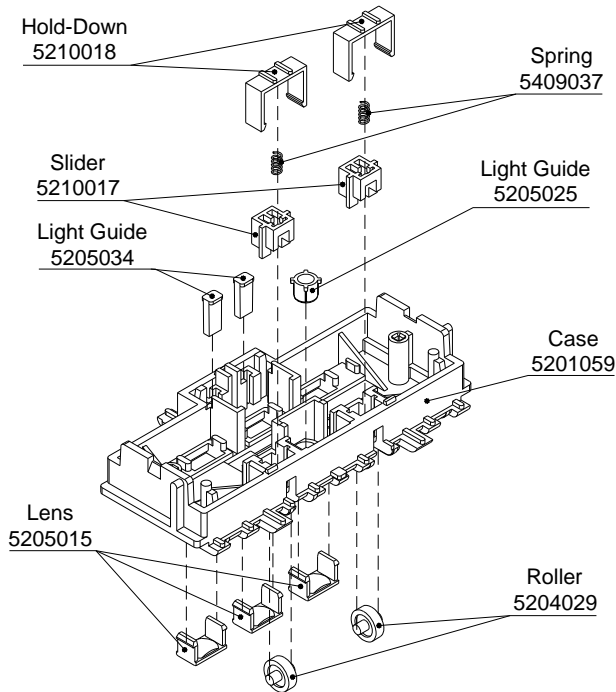
Upper Sense-a-Click module (FLSR1704U, FLSR1705U, FLSR1801U, FLSR1901U) – Exploded view



Part ID	Description	Qty.				
		FLSR1704U	FLSR1705U	FLSR1801U	FLSR1901U	
0100222	Case Assembly	1	1			SB06.100
0100222-01	Case Assembly			1	1	SB06.100-01
0402028-02	Upper Board	1		1		SB17.53.000-02
0402028-06	Upper Board		1			SB17.53.000-06
0402031-02.01	Coated PCB				1	SB19.53.000-02.01
5201028	Cover	1	1	1	1	SB02.002
8201280	Wood Screw #2x1/2", PAN, Ph	2	2	2	2	8201280

Disassembly

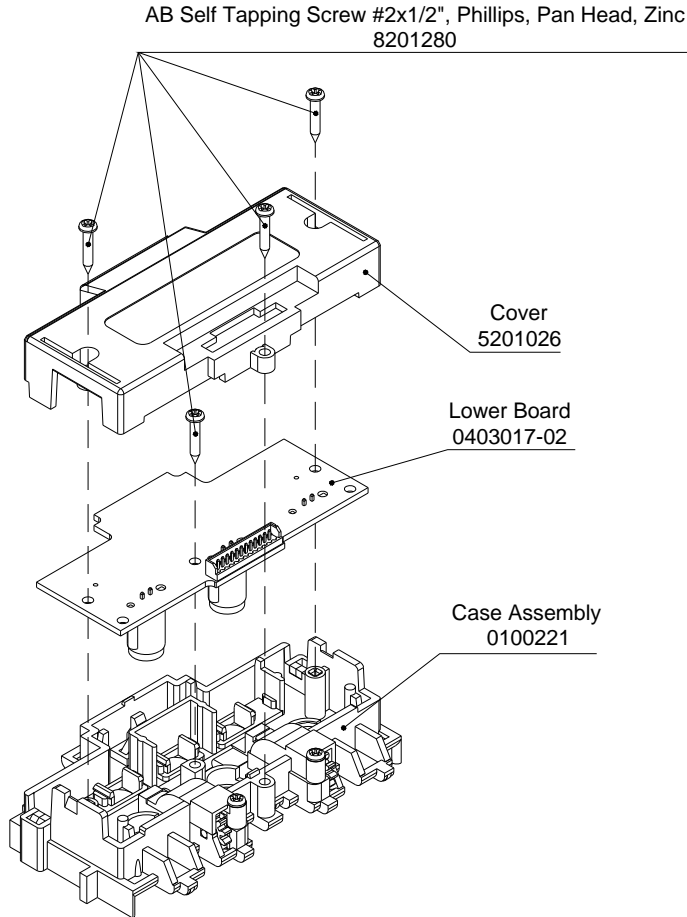
Case (0100222) – Exploded view



Part ID	Description	Qty.		
		SB06.100	SB06.100-01	
5201059	Case	1		SB06.001
5201059-01	Case		1	SB06.001-01
5204029	Roller	2	2	SB04.003
5205015	Lens	3	3	SM01.00.035
5205025	Light Guide	1	1	SM01.00.041
5205034	Light Guide	2	2	SB06.002
5210017	Slider	2	2	SB04.004
5210018	Hold-Down	2	2	SB04.005
5409037	Spring	2	2	SB04.007

Disassembly

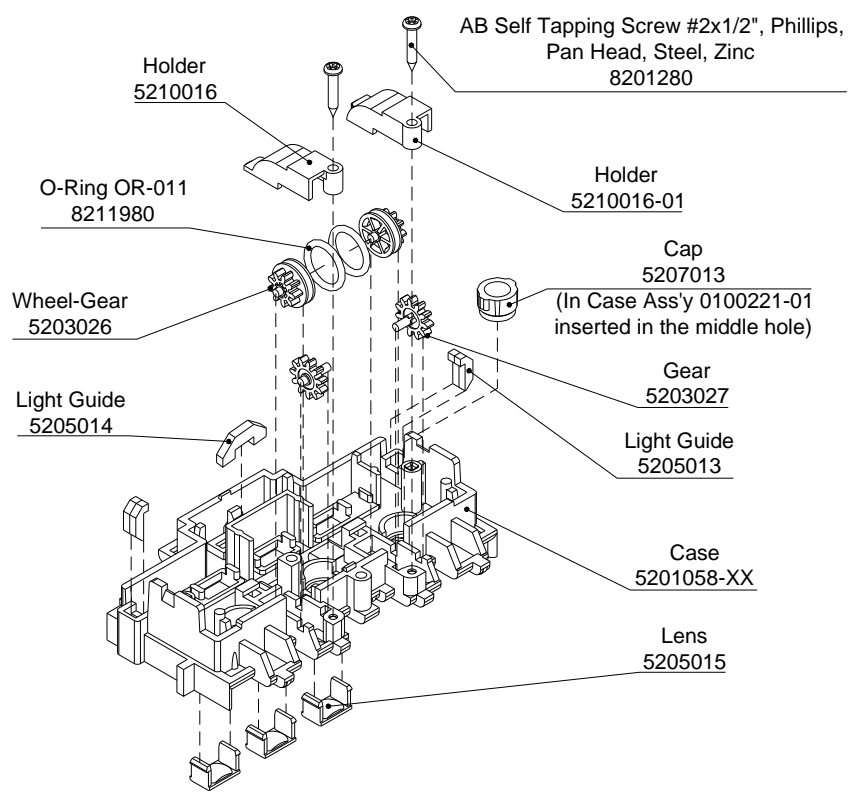
**Lower Sense-a-Click module
(FLSR1704L, FLSR1705L, FLSR1801L, FLSR1901L) – Exploded view**



Part ID	Description	Qty.				
		FLSR1704L	FLSR1705L	FLSR1801L	FLSR1901L	
0100221	Case Assembly	1	1			SB05.100
0100221-01	Case Assembly			1		SB05.100
0100221-02	Case Assembly				1	SB05.100
0403017-02	Lower Board	1		1		SB17.52.00
0403017-06	Lower Board		1			SB17.52.00
0403017-02.01	Lower Board				1	SB17.52.00
5201026	Cover	1	1	1	1	SB01.002
8201280	Wood Screw #2x1/2", PAN, Ph	4	4	4	4	8201280

Disassembly

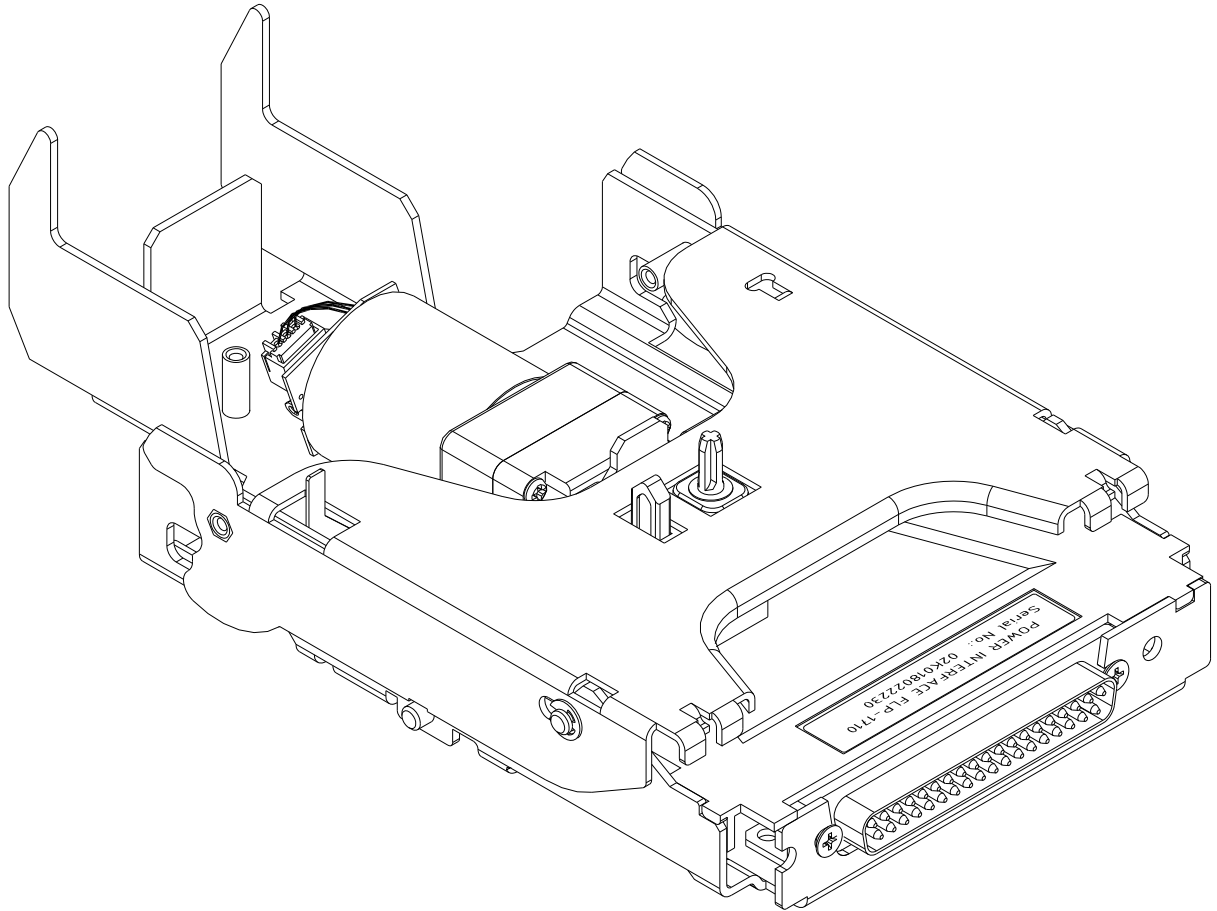
Case (0100221) – Exploded view



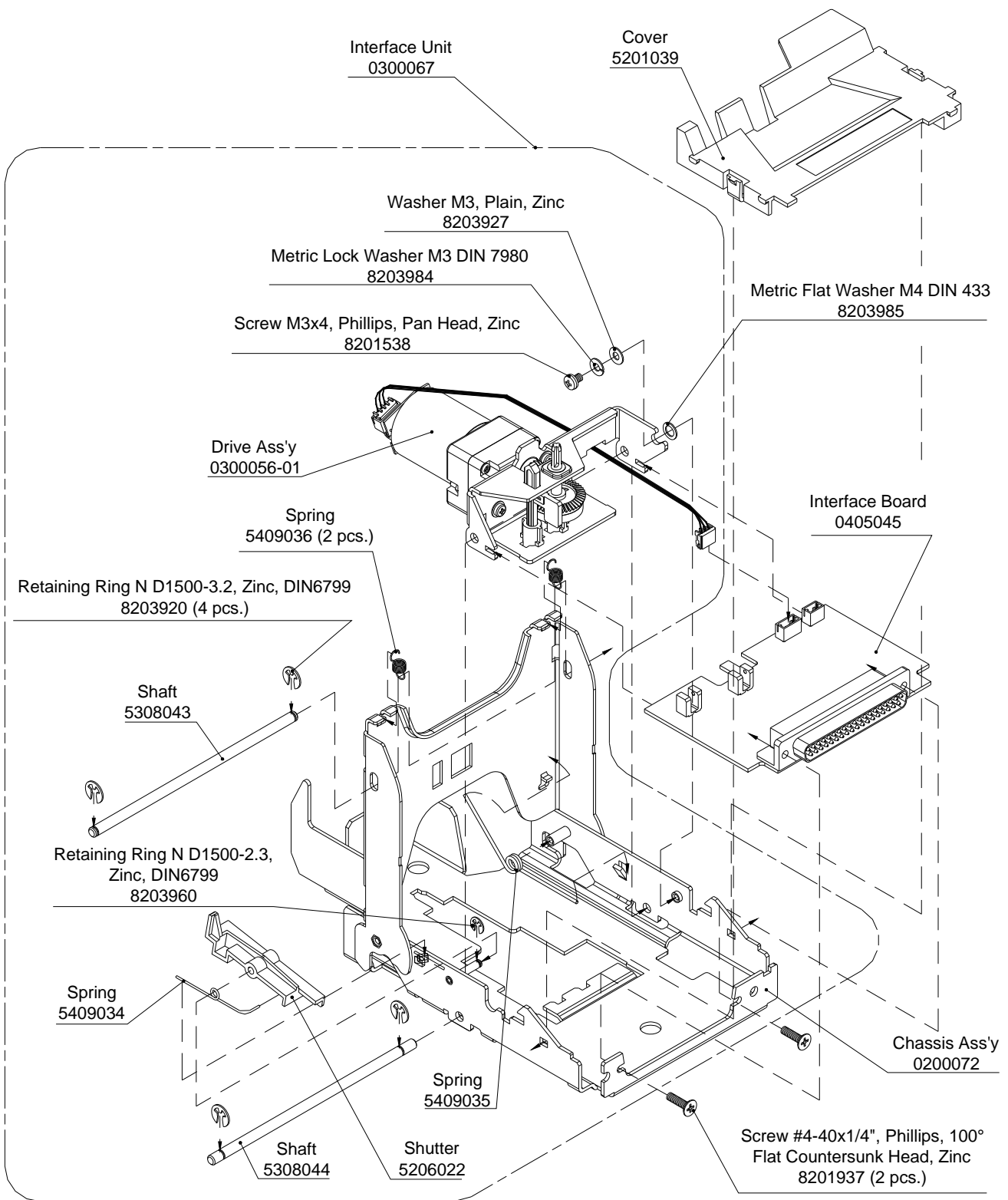
Part ID	Description	Qty.			
		SB05.100	SB05.100-01	SB05.100-02	
5201058	Case	1			SB05.001
5201058-01	Case		1	1	SB05.001-01
5203026	Wheel-Gear	2	2	2	SB03.003
5203027	Gear	2	2	2	SB03.004
5205013	Light guide	4	4	4	SB01.003
5205014	Light guide	1	1	1	VU01.06.004
5205015	Lens	3	3	3	SM01.00.035
5207013	Cap	1	1		SM01.00.033
5210016	Holder	1	1	1	SB03.002
5210016-01	Holder	1	1	1	SB03.002-01
8201280	Wood Screw #2x1/2", PAN, Ph	2	2	2	8201280
8211980	O-Ring OR-011, E300-70-011	2	2	2	8211980

Disassembly

POWER INTERFACE MODULE



Power Interface Module (FLPR5711) – Exploded view



Part ID	Description	Qty.	
0200072	Chassis Assembly	1	FL05.10.100
0300056-01	Drive Assembly	1	FL05.14.000-01
0405045	FL54.31 CCRS 232 Interface Brd	1	FL02.54.310
5201039	Cover	1	FL05.10.004
5206022	Shutter	1	FL05.10.011
5308043	Shaft	1	FL05.10.105
5308044	Shaft	1	FL05.10.106
5409034	Spring	1	FL05.10.005
5409035	Spring	1	FL05.10.003
5409036	Spring	2	FL05.10.002
8201937	Screw #4-40x1/4, Ph, Flat Head	2	8201937
8203920	Retaining Ring N D1500-3.2	4	8203920
8203960	Retaining Ring #D1500-2.3	1	8203960

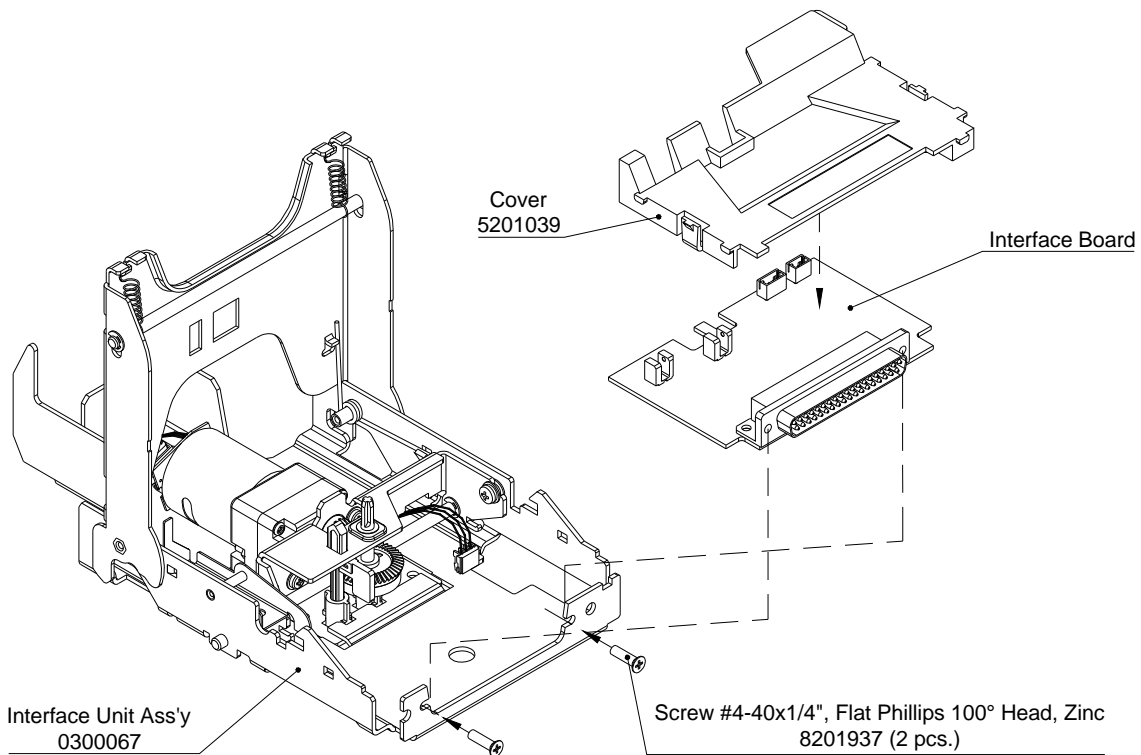
Disassembly

Tools required:

- Flat screwdriver
- Philips screwdriver #1
- Applicator tools for retaining rings (DIN 6799 #877-324 and #877-325)

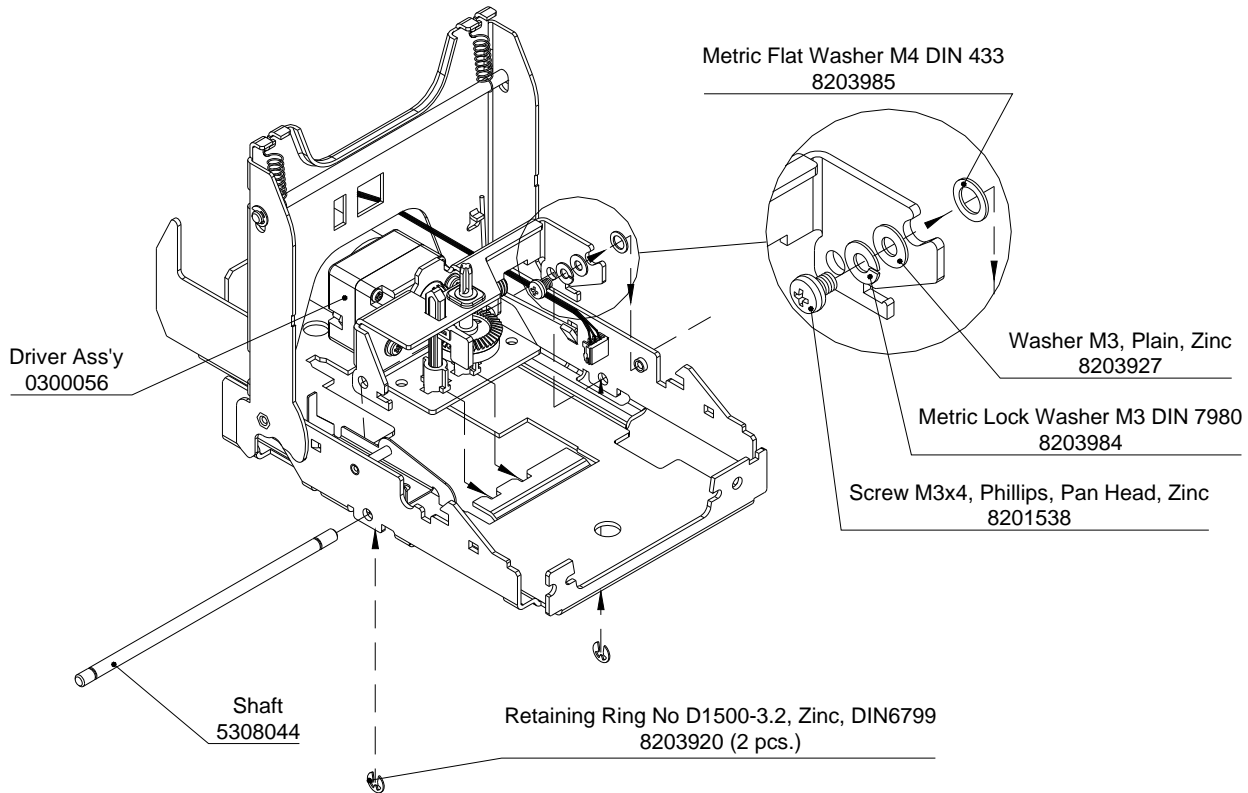
Step 1

- Press on the latches of the cover from both sides and remove it
- Disconnect the cable from the board
- Remove two screws and remove interface board



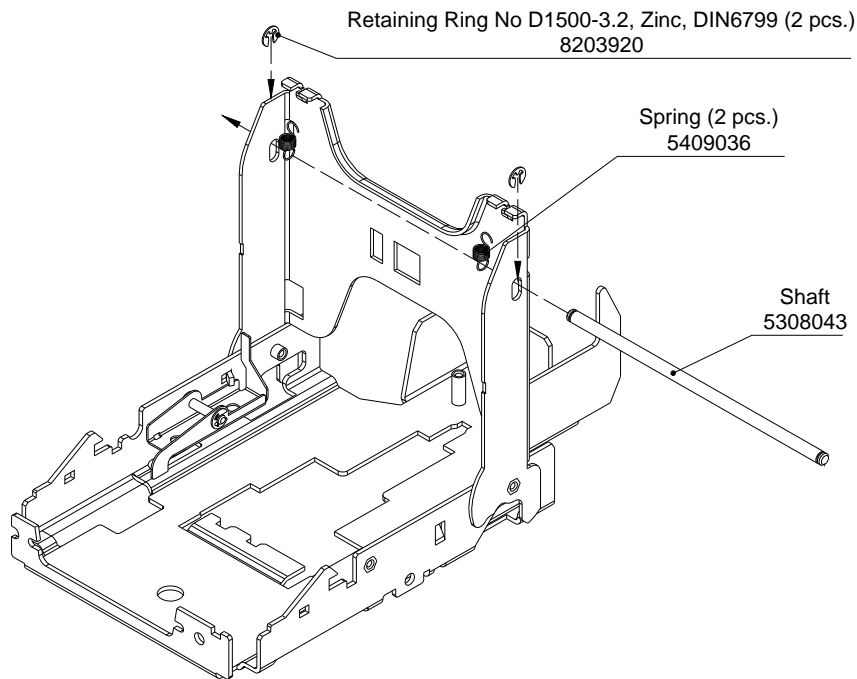
Step 2

- Remove one M3x4 screw
- Remove retaining rings
- Pull out the shaft
- Detach the drive

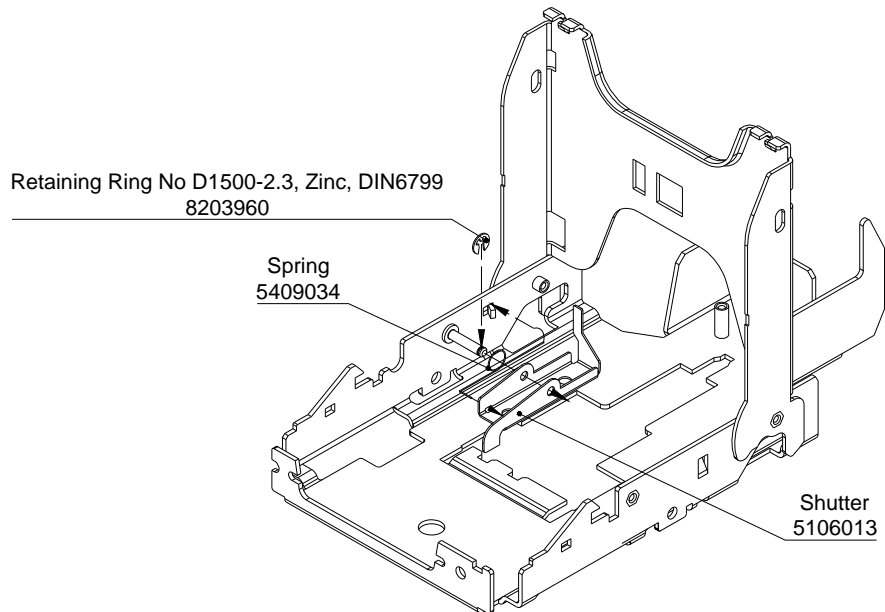


Step 3

Release the springs, remove the retaining rings and pull out the shaft.



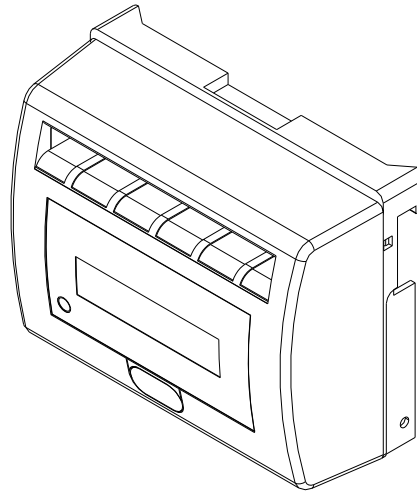
Step 4
Remove the retaining ring and take off the shutter.



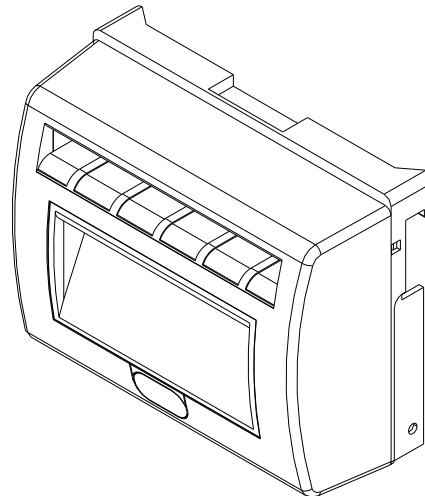
BEZEL

Standard Crane Payment Solutions Bezel
(MFLBR2401)

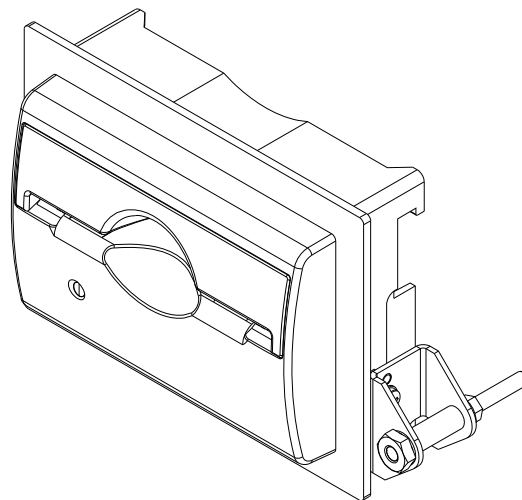
Crane Payment Solutions Bezel with Running Lights
(MFLBR2201)



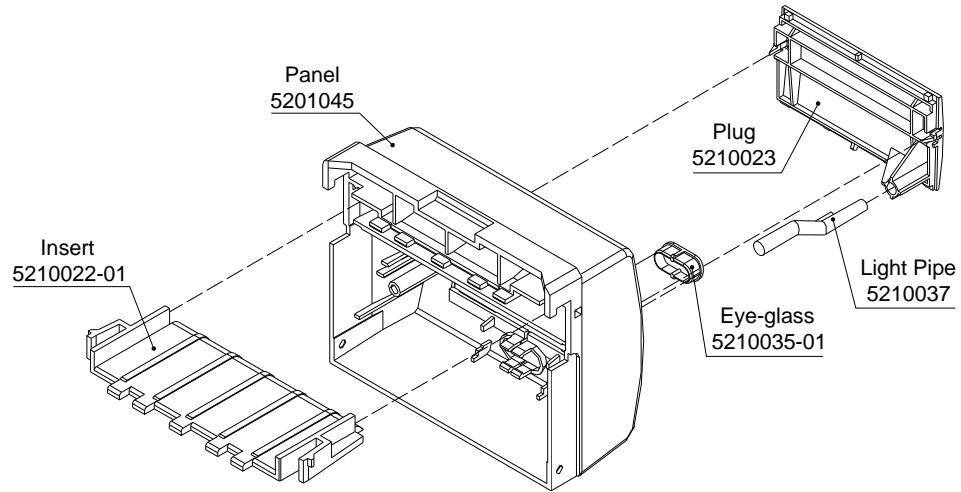
Crane Payment Solutions Bezel with Running Lights
and Digital Display (MFLBR3201)



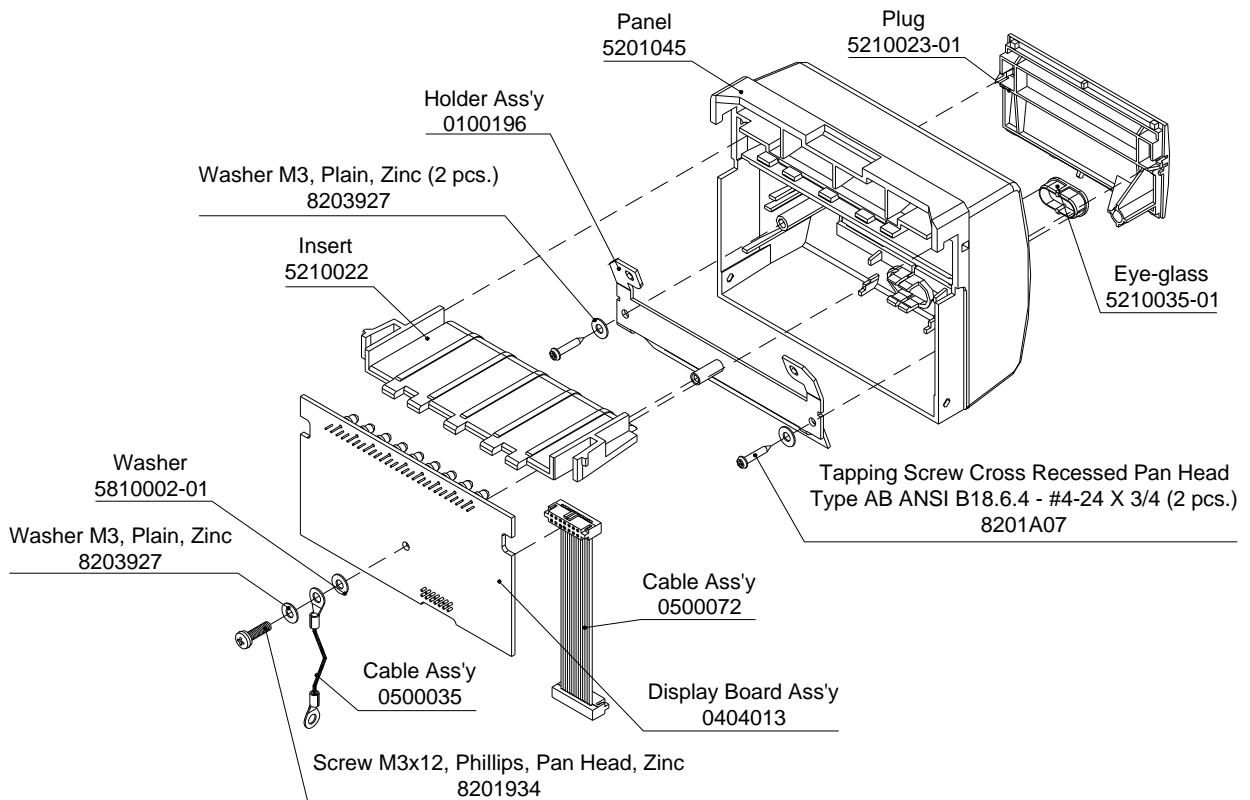
Metal Bezel (MFLBR7102)



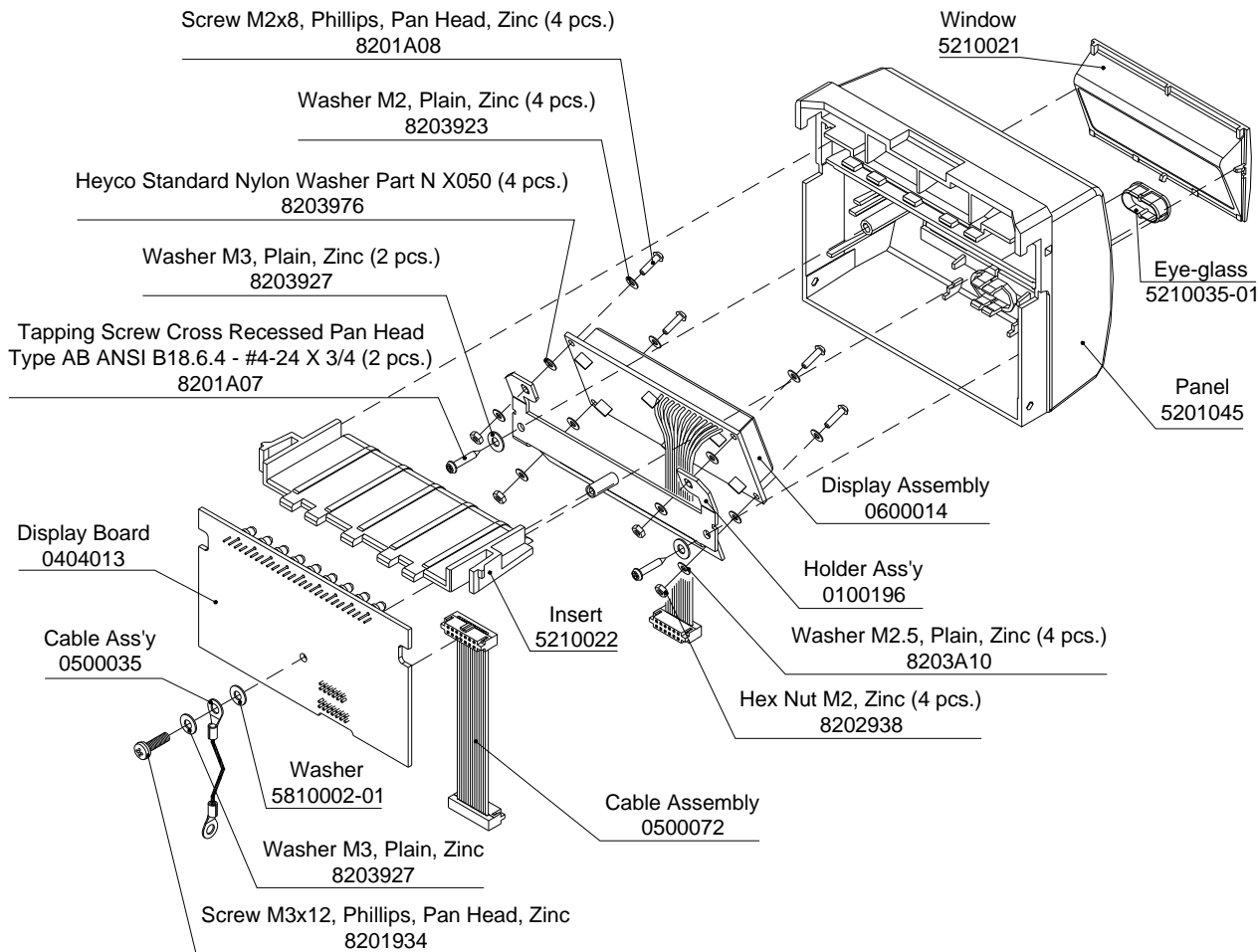
Standard Bezel (MFLBR2401) – Exploded view



Bezel with Running Lights (MFLBR2201) – Exploded view



Bezel with Running Lights and Digital Display (MFLBR3201)



Part ID	Description	Qty.			
		MFLBR2201	MFLBR2401	MFLBR3201	
0100196	Holder Assembly	1		1	FL10.200
5201045	Panel	1	1	1	FL10.021
5210022	Insert (83)	1		1	FL10.023
5210022-01	Insert (83)		1		FL10.023-01
0404013-01	Display Board Assembly			1	FL10.10.000-01
0404013-02	Display Board Assembly	1			FL10.10.000-02
0500035	Cable Assembly	1		1	FL04.05.300
0500072	Cable Assembly	1		1	FL10.300
0600014	Cable Assembly			1	FL10.400
5210021	Window			1	FL10.022
5210023	Plug		1		FL10.024
5210023-01	Plug	1			FL10.024-01
5210035-01	Eye-glass	1	1	1	FL10.220-01
5210037	Light Pipe		1		FL10.025
5810002-01	#4 Nylon Flat Washer	1		1	5810002-01

8201970	Screw M3x12, Phil, Pan Head, Zinc	1		1	8201970
8201A07	Tapping Screw #4-24x3/4, Zn	2		2	8201A07
8201A08	Screw M2x8, Zn, Pan, Phillips			4	8201A08
8202938	Hex Nut M2, Zinc			4	8202938
8203923	Flat Washer M2 , Din 125-1A, Zn			4	8203923
8203927	Flat Washer M3, Zinc	3		3	8203927
8203976	Standard Nylon Washer X050			4	8203976
8203A10	Flat Washer M2.5			4	8203A10

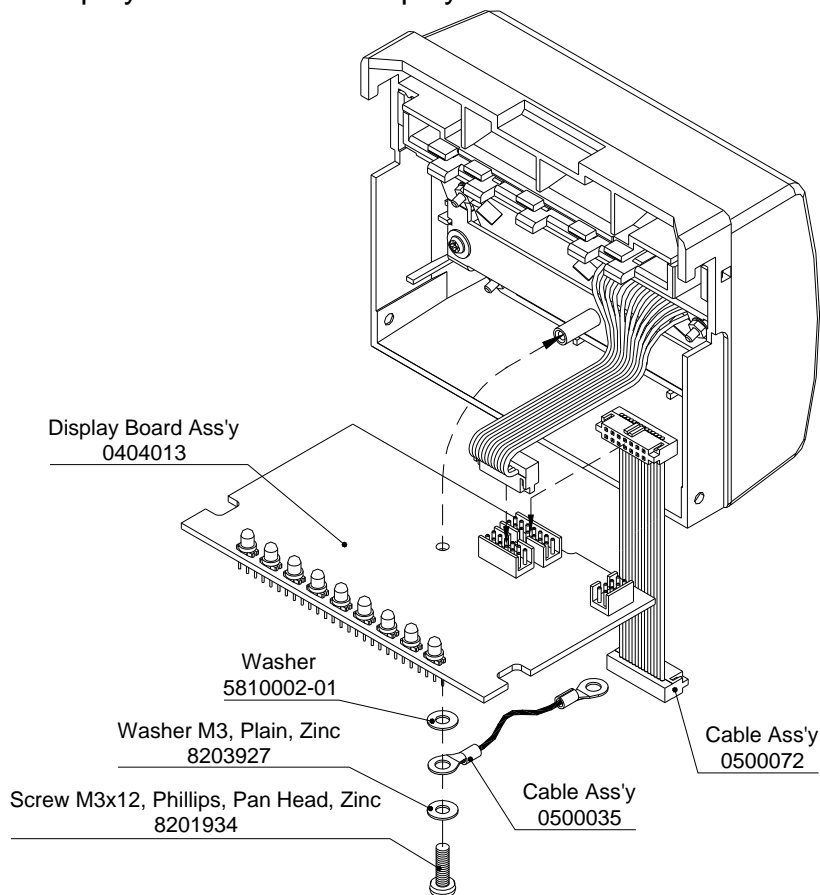
Disassembly

Tools required:

- Two flat screwdrivers
- Phillips screwdriver #1

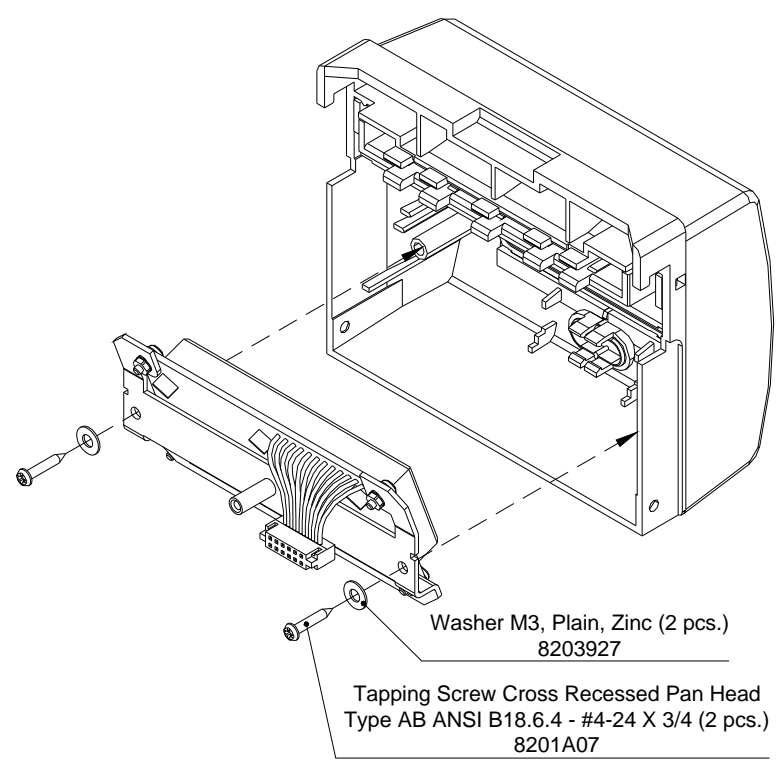
Step 1

- Remove one screw
- Remove display board and cable
- Disconnect the cable from the display board
- Disconnect the display cable from the display board



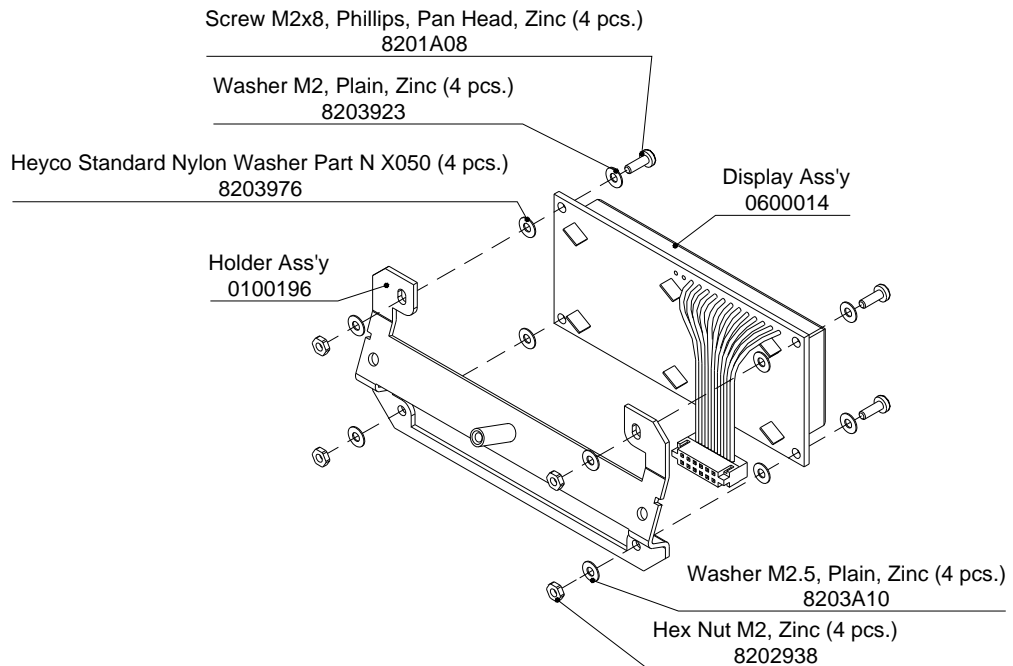
Step 2

- Remove two screws
- Remove holder assembly with display



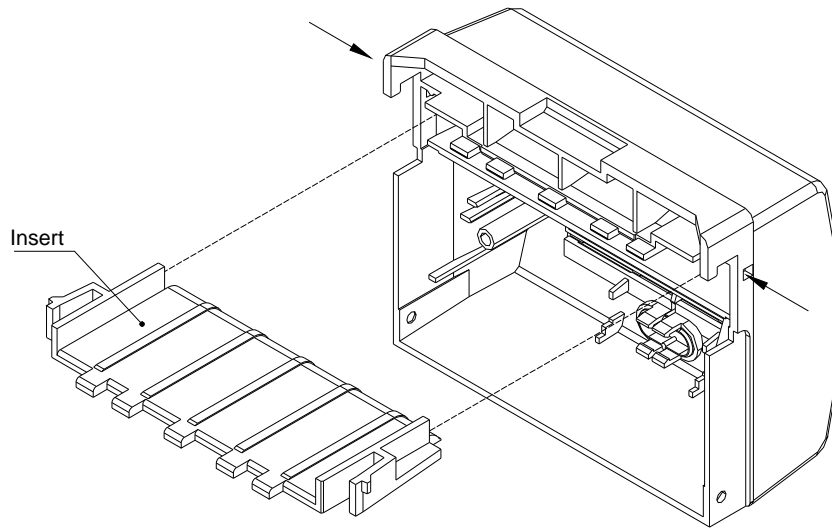
Step 3

- Remove four screws
- Disassemble holder assembly and display



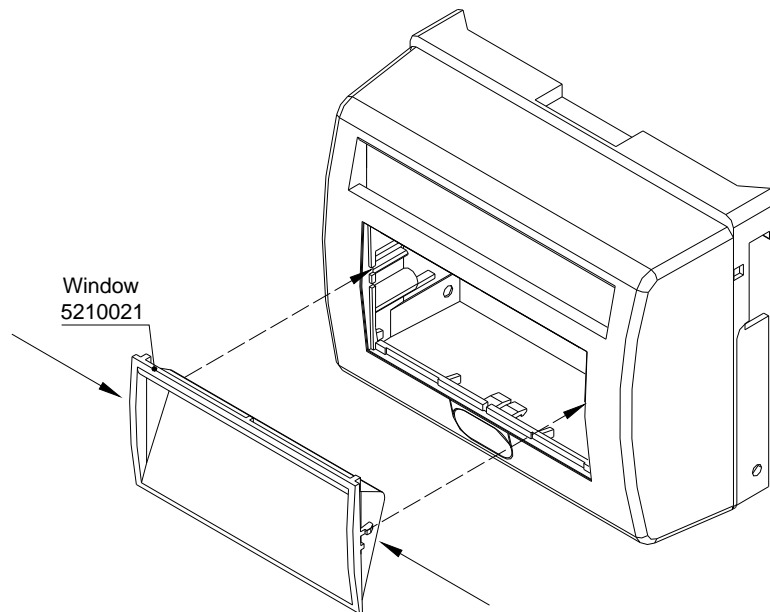
Step 4

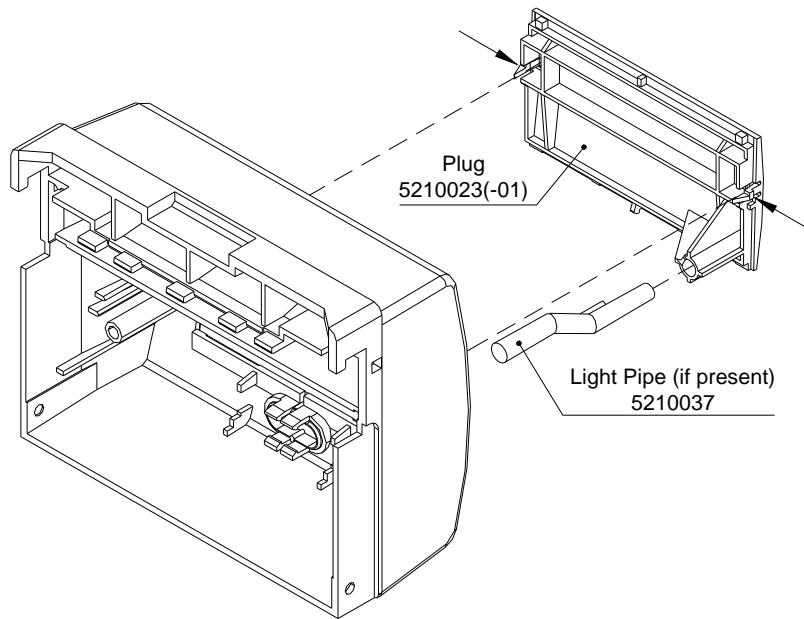
- Press on the latches of the insert, as shown by arrows
- Release the latches and remove the insert



Step 5

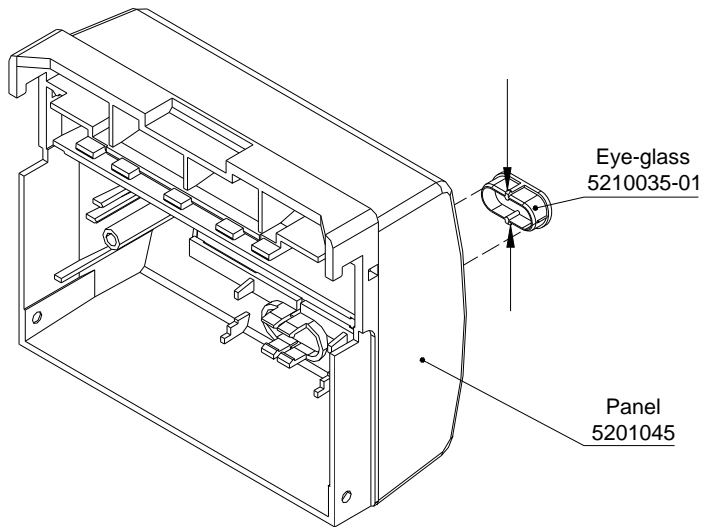
- Press on latches of the window as, shown by arrows
- Release the latches and remove the window





Step 6

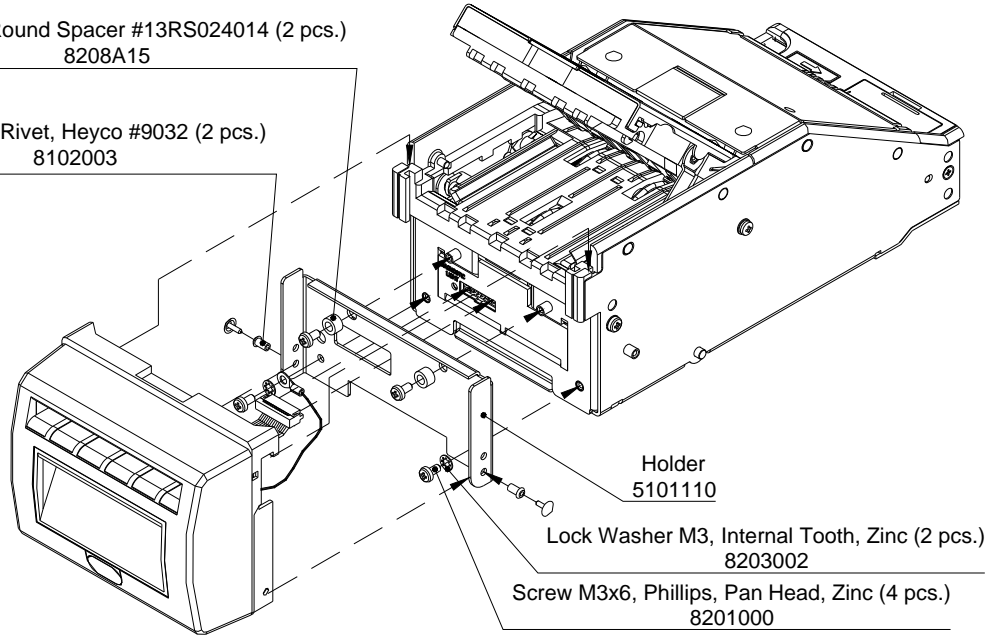
- Press on the latches of the eye-glass, as shown by arrows
- Release the latches and remove the eye-glass



Mounting Kit for Plastic Bezel installation (OPT-MKFL-B01)

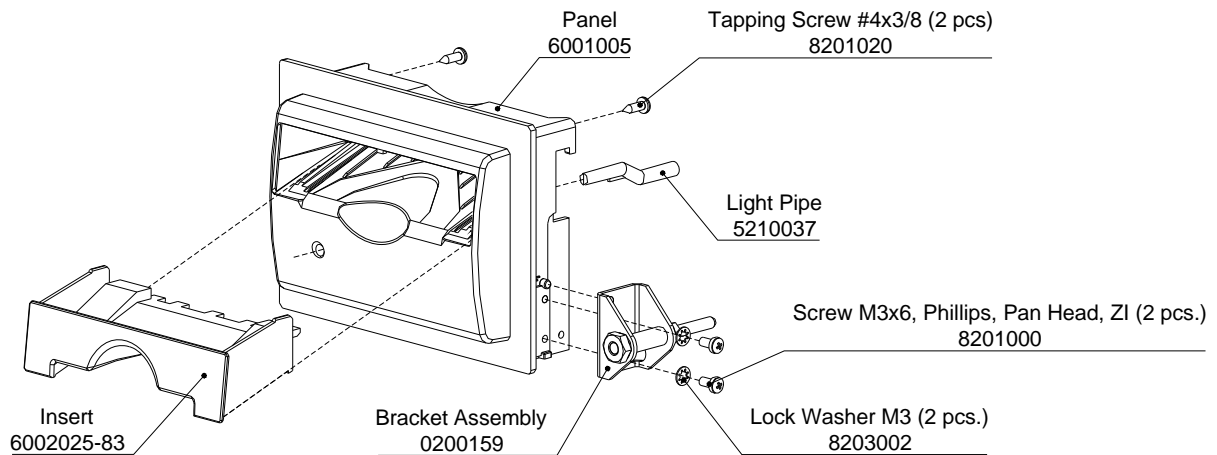
Microplastic Round Spacer #13RS024014 (2 pcs.)
8208A15

Nylon Push Rivet, Heyco #9032 (2 pcs.)
8102003



Part ID	Description	Qty.
5101110	Holder	1
8102003	Nylon Push Rivet SR-3055B	2
8201000	Screw M3x6, Phil., Pan Head, Zinc	4
8203002	Lock Washer M3, Internal teeth	2
8208A15	Microplastic Round Spacer	2

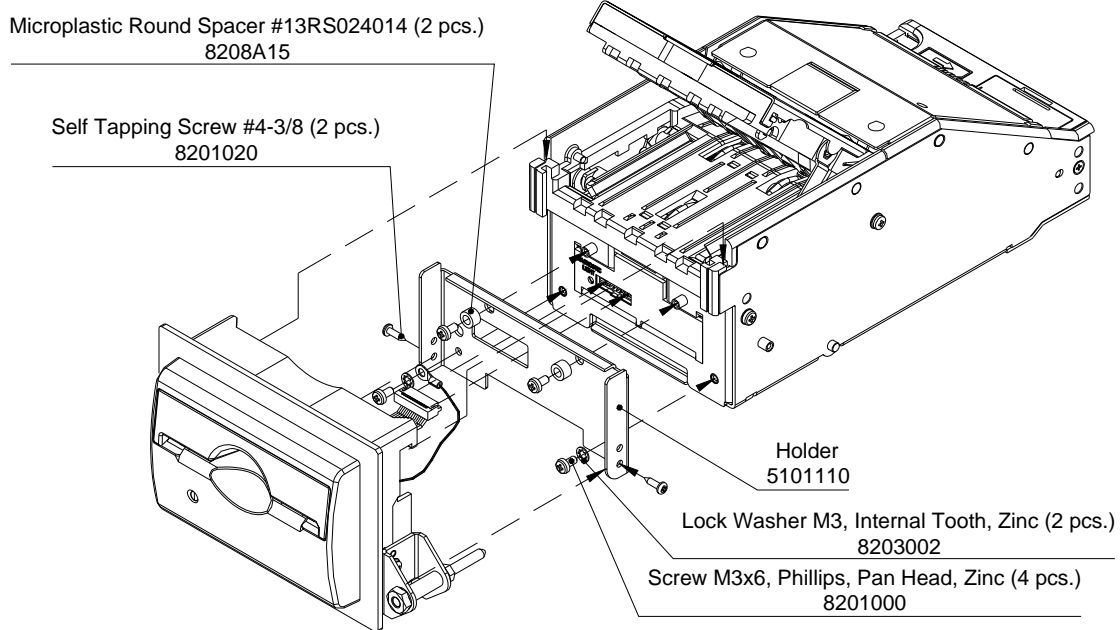
Metal Bezel (MFLBR7102) – Exploded view



Part ID	Description	Qty.
0200159	Bracket Assembly	1
5210037	Light Pipe	1
6001005	Panel	1
6002025-83	Insert	1

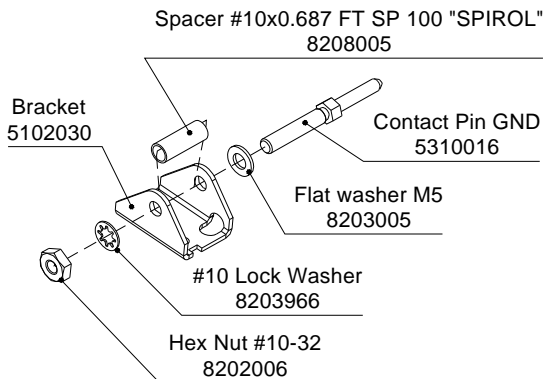
Disassembly

Mounting Kit for Metal Bezel installation (OPT-MKFL-B04) – Exploded view



Part ID	Description	Qty.
5101110	Holder	1 FL10.001
8201000	Screw M3x6, Phil., Pan Head, Zinc	4 8201000
8201020	Self Tapping Screw #4-3/8	2 8201020
8203002	Lock Washer M3, Internal teeth	2 8203002
8208A15	Microplastic Round Spacer	2 8208A15

Bracket (0200159) – Exploded view

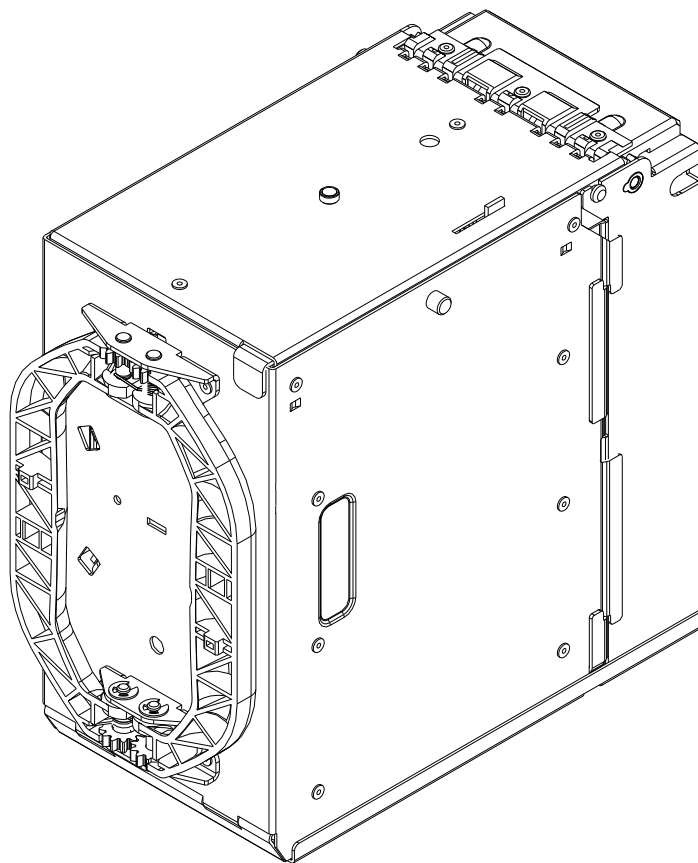


Part ID	Description	Qty.
5102030	Bracket	1 FL21.101
5310016	Contact Pin GND	1 BB01.78.504
8202006	Hex Nut #10-32	1 8202006
8203005	Flat Washer M5, Plain, Zink	1 8203005
8203966	Lock washer #10(M5), Int tooth	1 8203966
8208005	Spacer #10x11/16	1 8208005

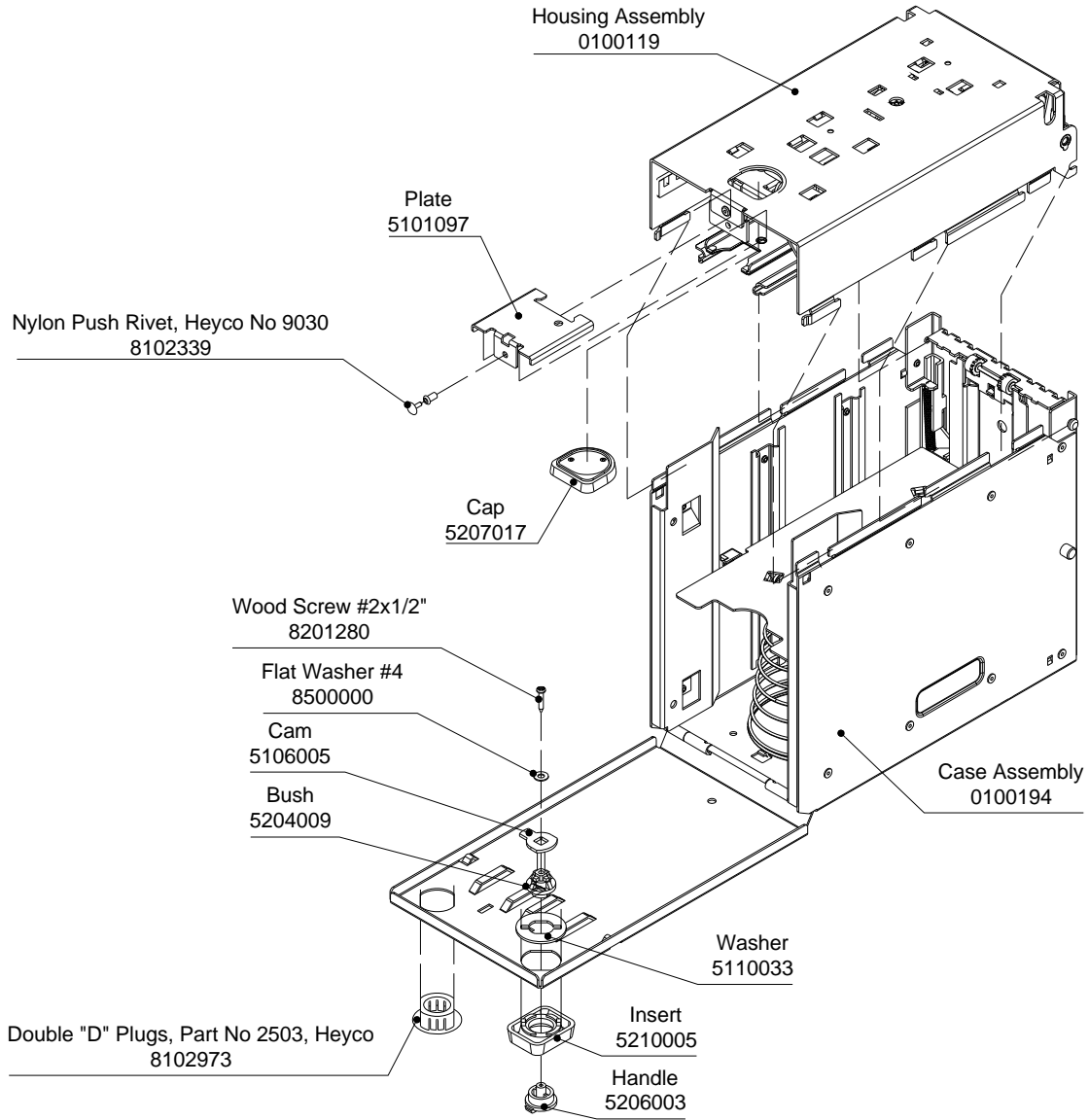
Disassembly

DROP CASSETTE

FLCR603 (1000 bills, bill length 140-172 mm)



Cassette (FLCR603) – Exploded view



Part ID	Description	Qty.
0100119	Housing Assembly	1
0100193	Foldable Handle Assembly	1
0100194	Case Assembly	1
5101097	Plate	1
5106005	Cam	1
5110033	Washer	1
5204009	Bushing	1
5206003	Handle	1

5207017	Cap	1
5210005	Insert	1
8102339	Nylon Push Rivet SR-3045B	1
8102973	Double "D" Plugs	1
8201280	Wood Screw #2x1/2", PAN, Ph	1
8201931	Screw M3x6, Ph, Flat Counters.	2
8203927	Flat Washer M3, Zinc	1
8210324	Closed End POP Rivet AD42H	4

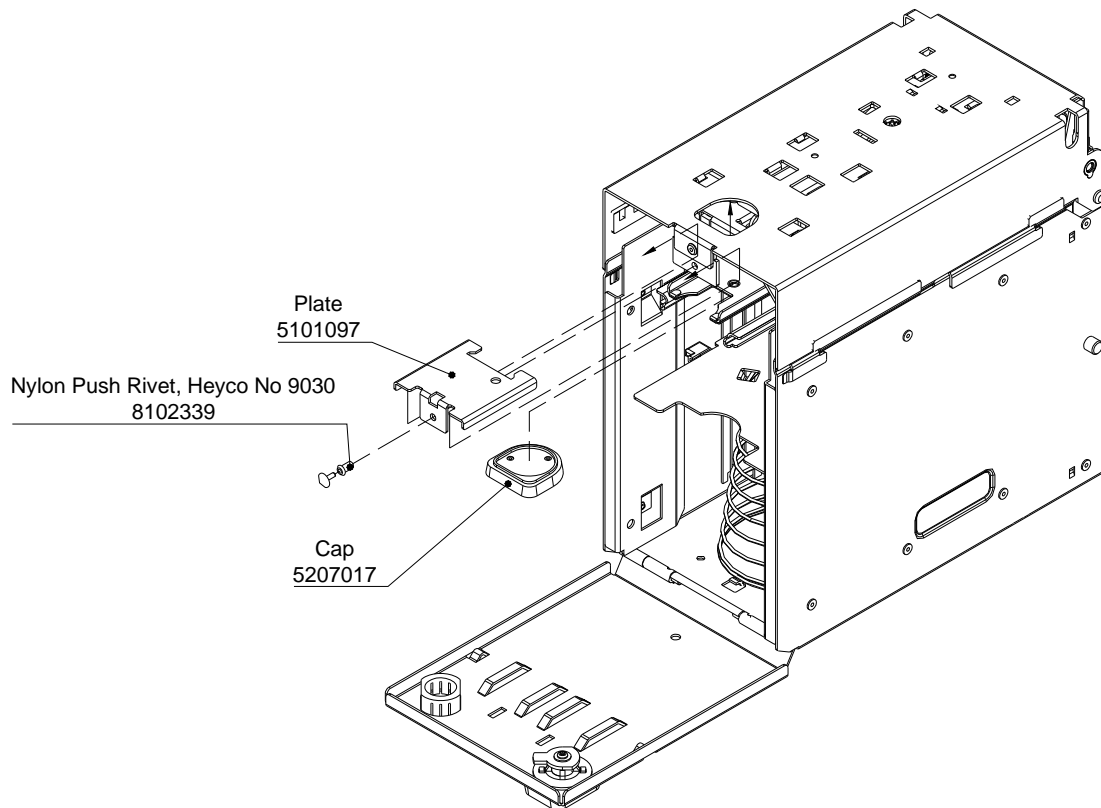
Disassembly

Tools required:

- Flat screwdriver
- Philips screwdriver #1

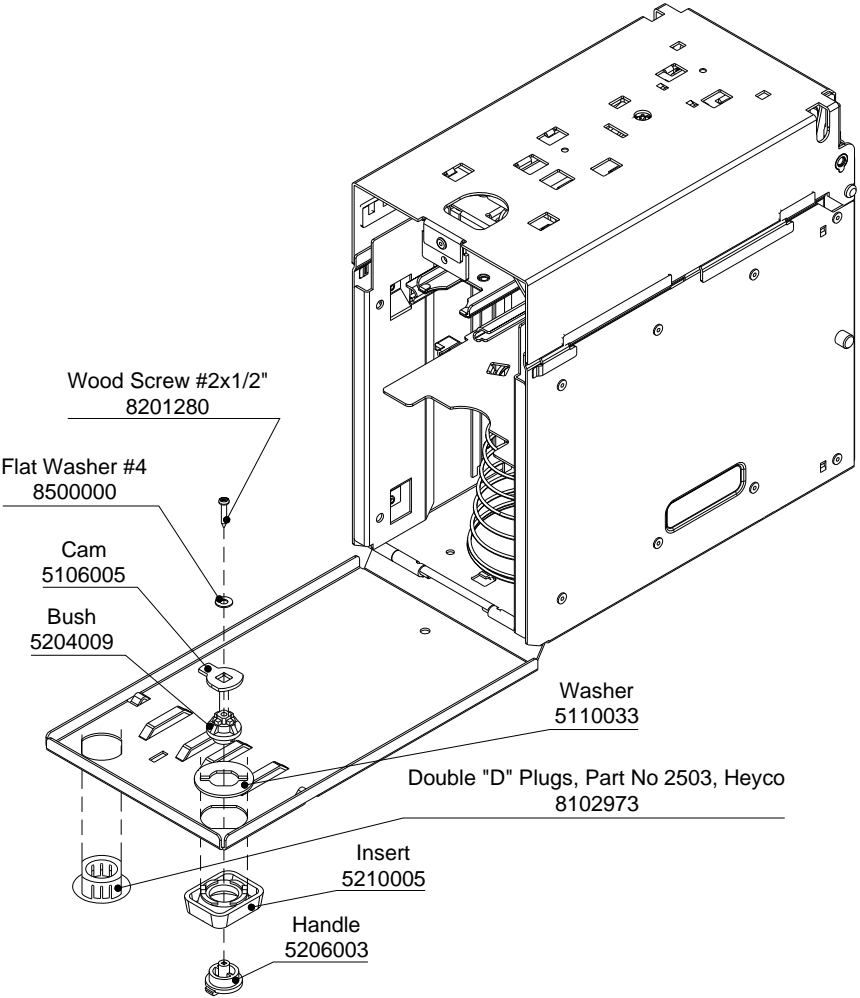
Step 1

- Open the cover and pull out the rivet
- Remove the plate and the cap



Step 2

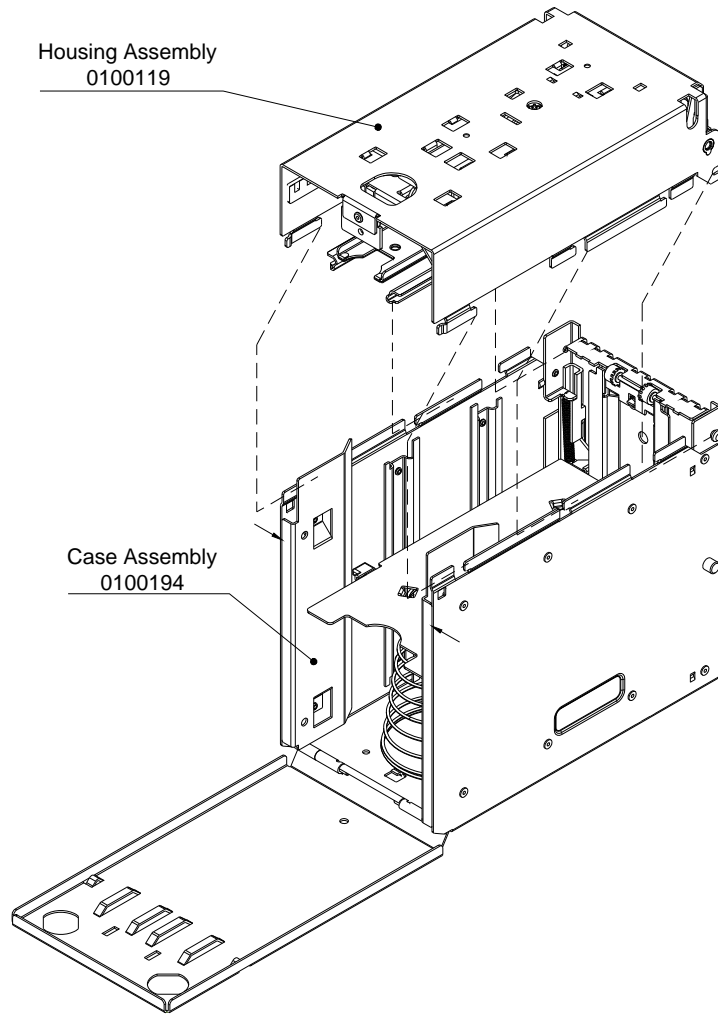
- Remove the wood screw
- Remove parts



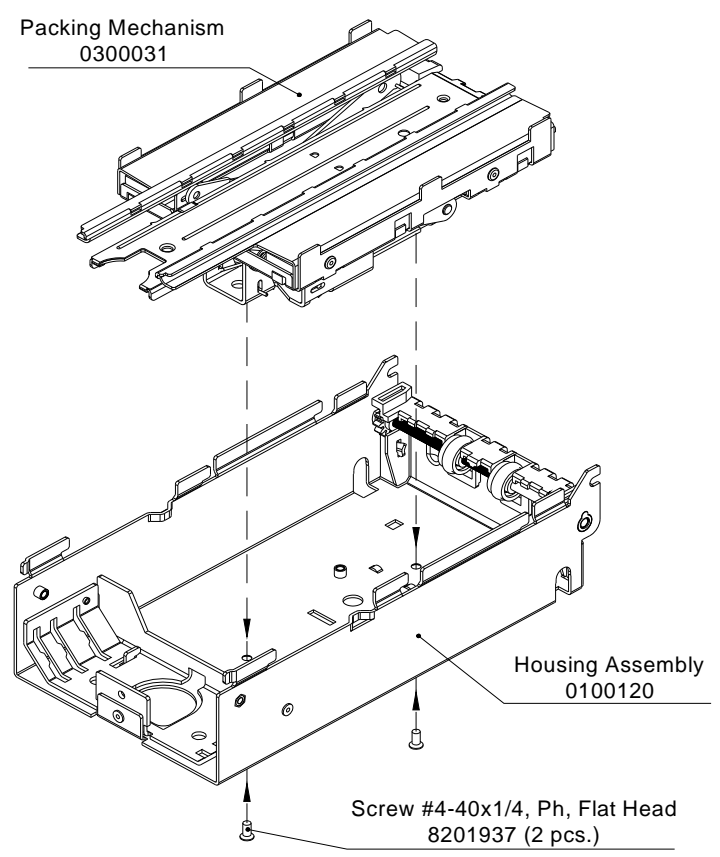
Note: Typically, one or two 3/4" tubular locks are installed on a cassette. Instructions regarding Disassembly and installation of these locks can be found in "Part. 1 Operation Manual"

Step 3

- Press on the walls of the case, as shown by arrows
- Shift housing towards the open cover and remove it

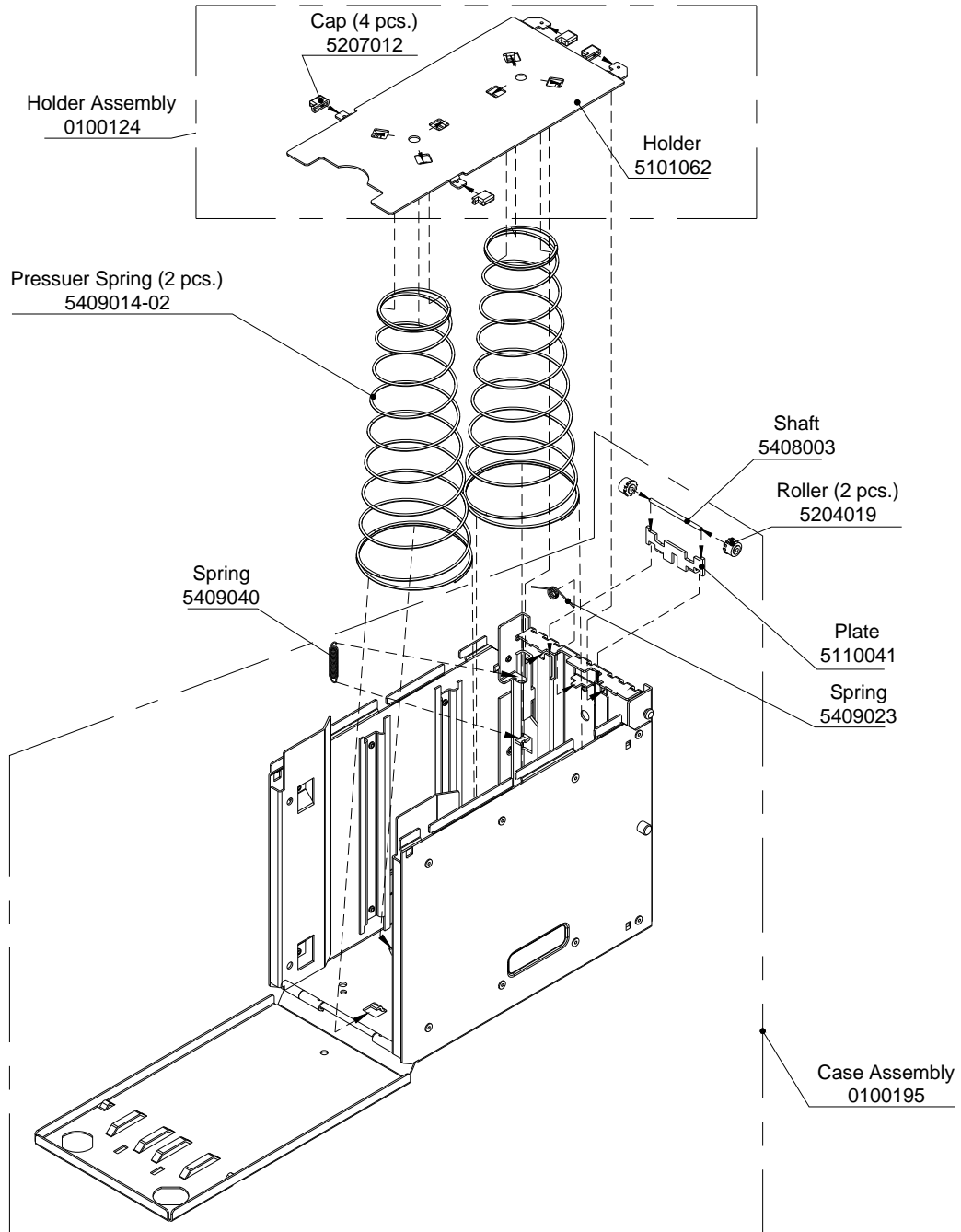


Housing (0100119) – Exploded view



Part ID	Description	Qty.	
0100120	Housing Assembly	1	BX31.10.100
0300031	Packing Mechanism Assembly	1	BX31.11.000
8201937	Screw #4-40x1/4, Ph, Flat Head	2	8201937

Case (0100194) – Exploded view



Part ID	Description	Qty.	
0100124	Holder Assembly 1	1	BX31.50.100
0100195	Case Assembly 2	1	BX33.55.000
5409014-02	Pressure Spring V1000	2	BX15.00.002-02

1- Holder Assembly

Part ID	Description	Qty.
5101062	Holder	1
5207012	Cap	4

2- Case Assembly

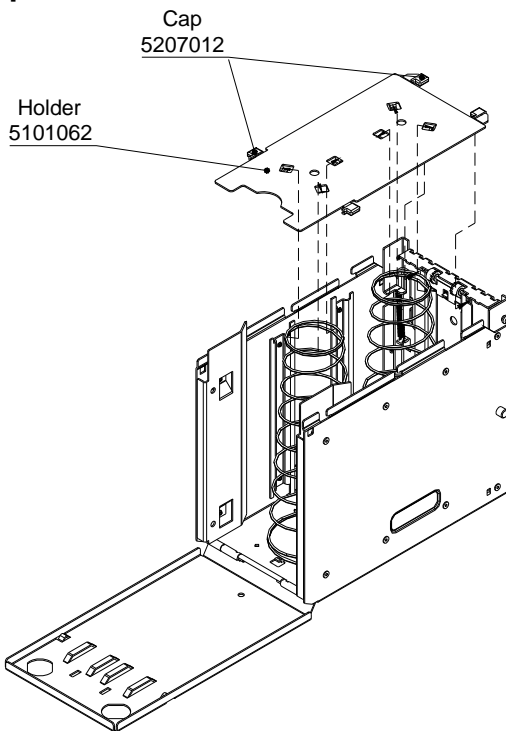
Part ID	Description	Qty.
5110041	Plate	1
5204019	Roller	2
5408003	Shaft	1
5409023	Spring	1
5409040	Spring	1

Disassembly

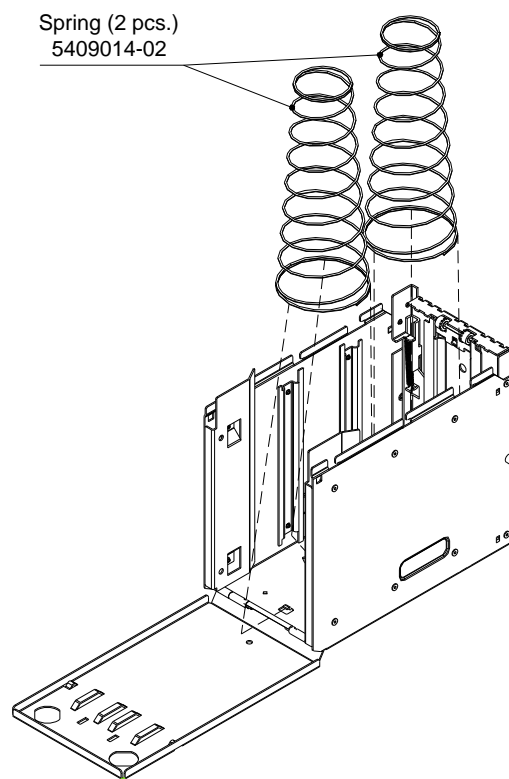
Tools required:

Tweezers.

Step 1

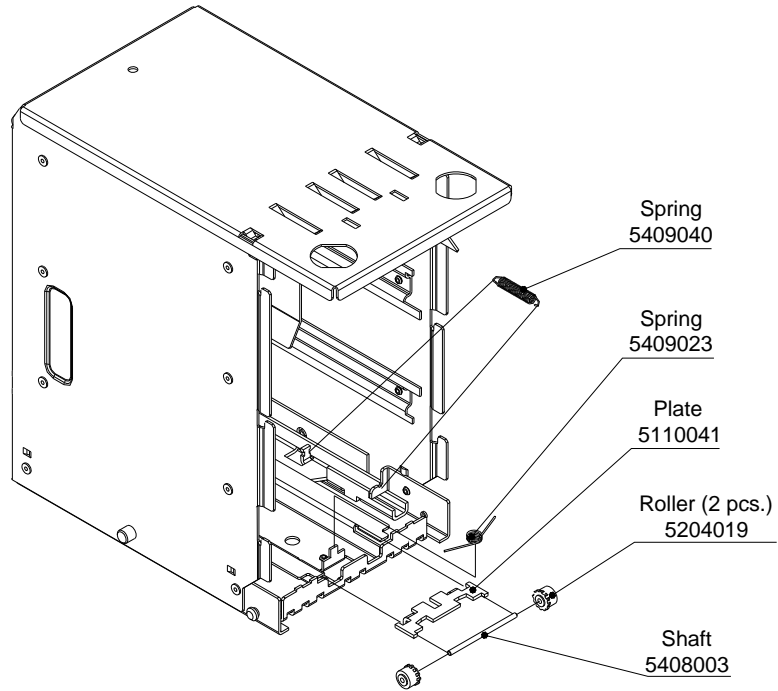


Step 2

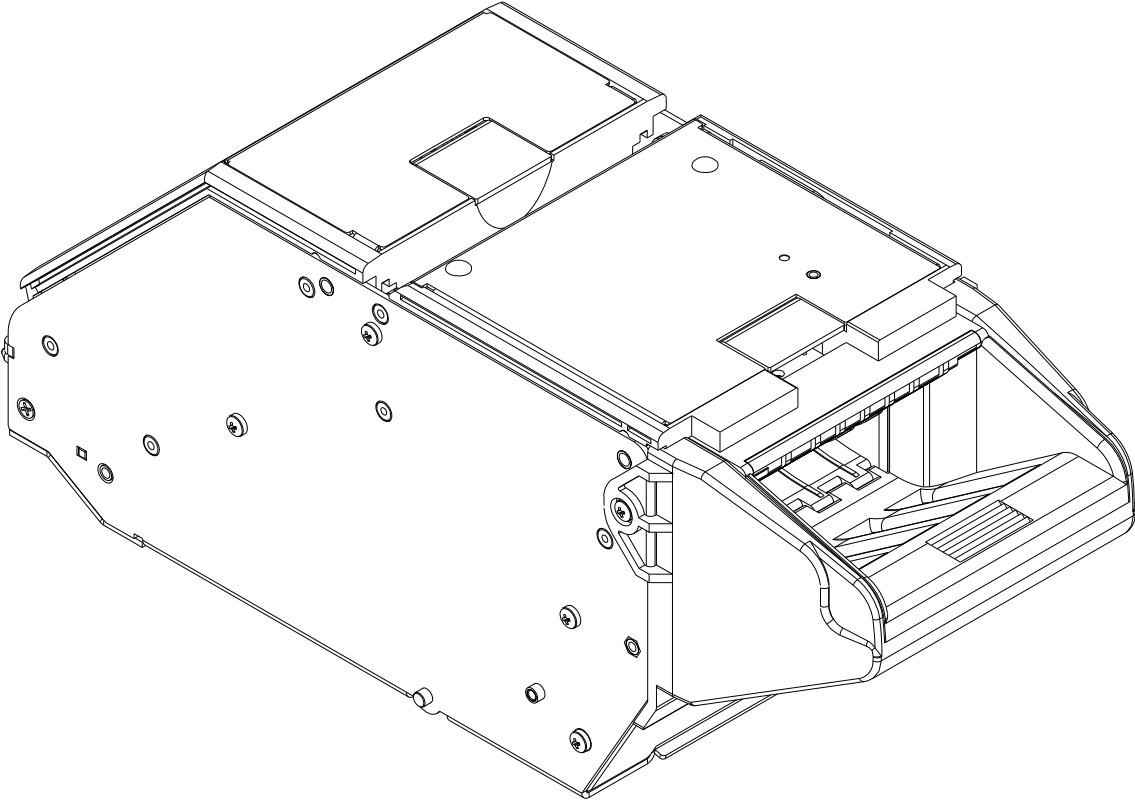


Step 3

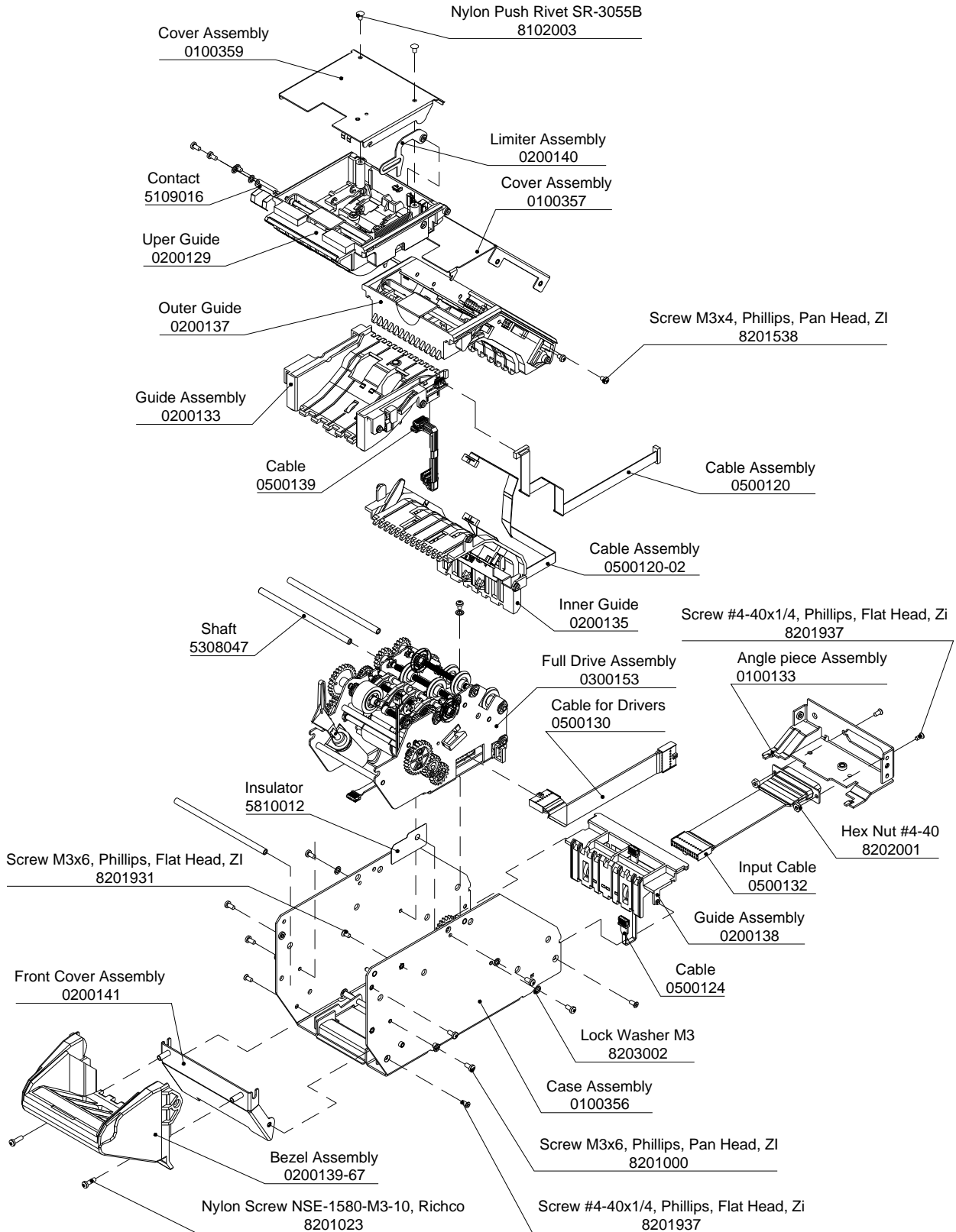
- Remove the spring
- Shift the plate inside the case and slide the shaft along its axis
- Remove the shaft and the rollers from the case



VALIDATING HEAD WITH LOADER



Validating Head with Loader (SLR0001) – Exploded view



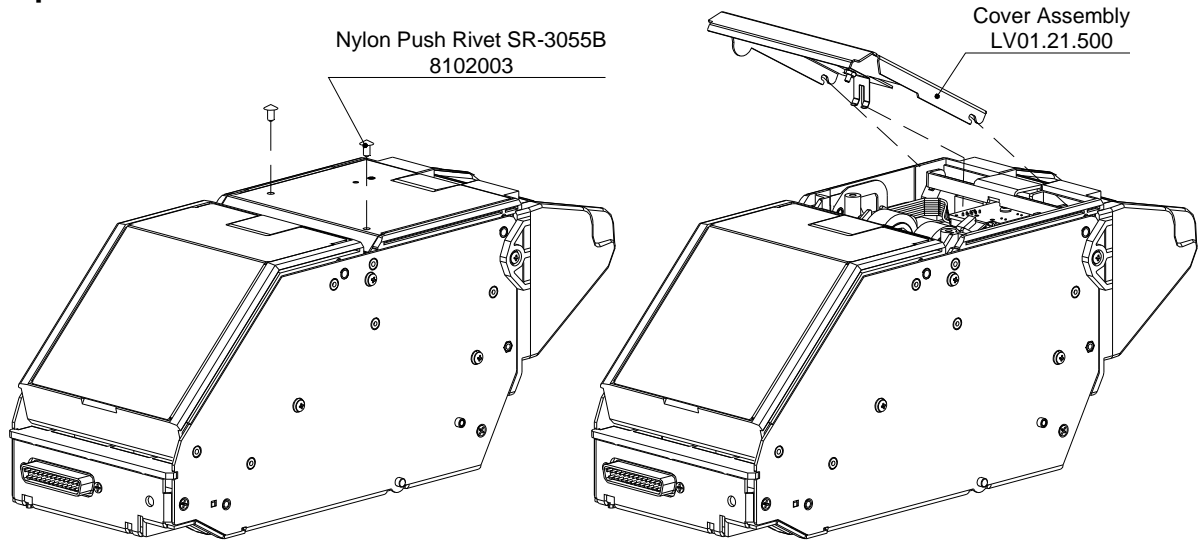
Part ID	Description	Qty.	
0100133	Angle piece Assembly	1	FL04.06.200
0100356	Case Assembly	1	LV01.19.000
0100357	Outer Cover Assembly	1	LV01.06.000
0100359	Cover Assembly	1	LV01.21.500
0200129	Upper Guide Assembly	1	LV01.21.000
0200133-67	Guide Assembly	1	LV01.22.000-67
0200135-36	Inner Guide Assembly	1	LV01.23.000-36
0200137	Outer Guide Assembly	1	LV01.24.000
0200138	Guide Assembly	1	LV01.25.000
0200139-67	Bezel Assembly	1	LV01.15.000-67
0200140	Limiter Assembly	1	LV01.27.000
0200141	Front Cover Assembly	1	LV01.19.200
0300153	Full Drive Assembly	1	LV01.18.000
0500120	Cable Assembly	1	MM01.10.100
0500120-02	Cable Assembly	1	MM01.10.100-02
0500124	Cable Assembly	1	MM01.10.500
0500130	Cable Assembly	1	LV01.10.200
0500132	Cable Assembly	1	LV01.10.300
0500139	Cable Assembly	1	LV01.10.150
5109016	Contact	1	SM01.00.005
5308047	Shaft (Connector)	3	FL04.05.005
5810012	Insulator	1	3033A
8102003	Nylon Push Rivet SR-3055B	2	8102003
8201000	Screw M3x6, Phil., Pan Head, Zinc	10	8201000
8201023	Nylon Screw NSE-1580-M3-10	2	8201023
8201538	Screw M3x4, PAN Head, Ph, Zinc	4	8201538
8201931	Screw M3x6, Ph, Flat Counters.	1	8201931
8201937	Screw #4-40x1/4, Ph, Flat Head	6	8201937
8202001	Hex Nut #4-40	2	8202001
8203002	Lock Washer M3, Internal teeth	9	8203002

Disassembly

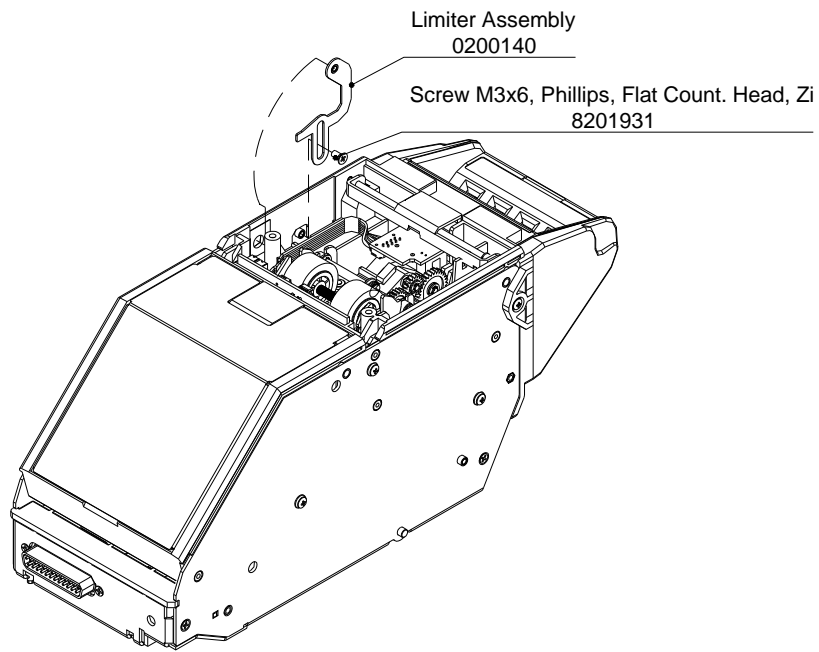
Tools required:

- Flat screwdriver
- Philips screwdriver #1
- Tweezers

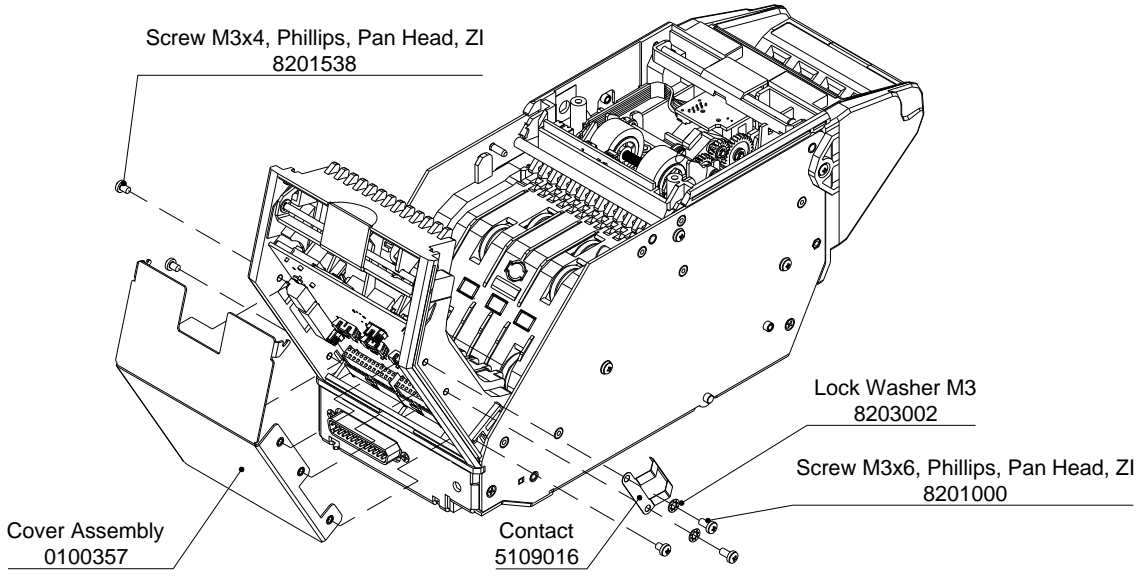
Step 1



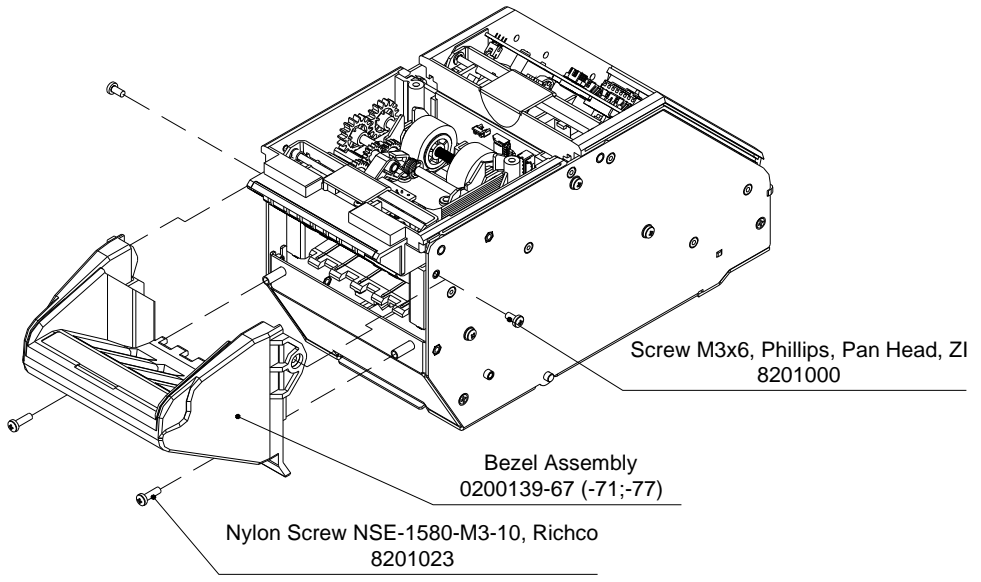
Step 2



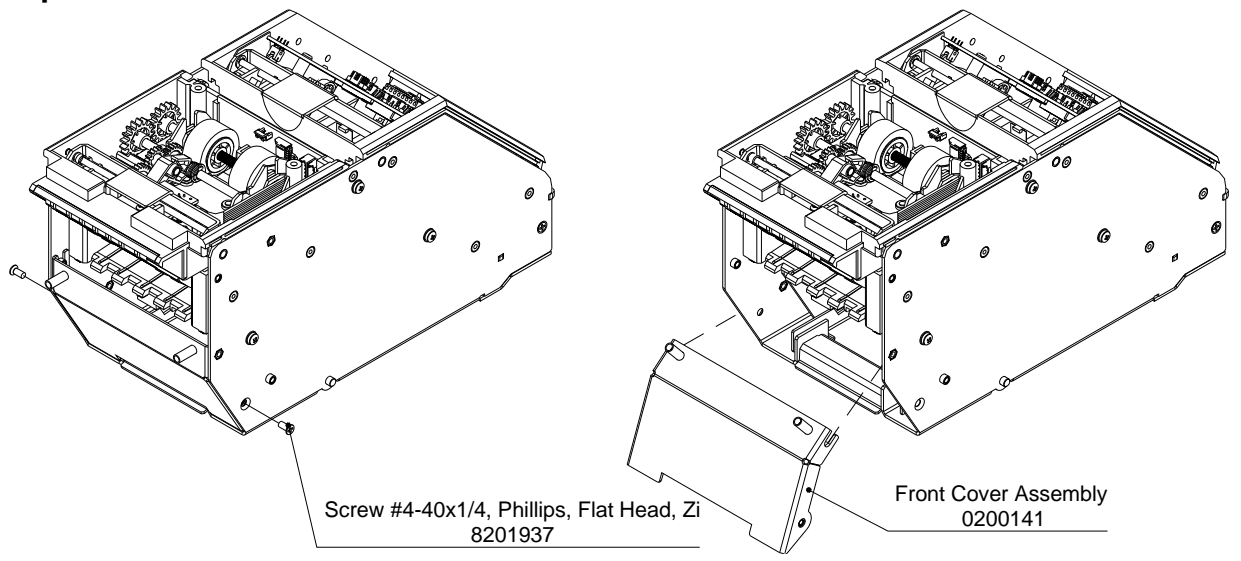
Step 3



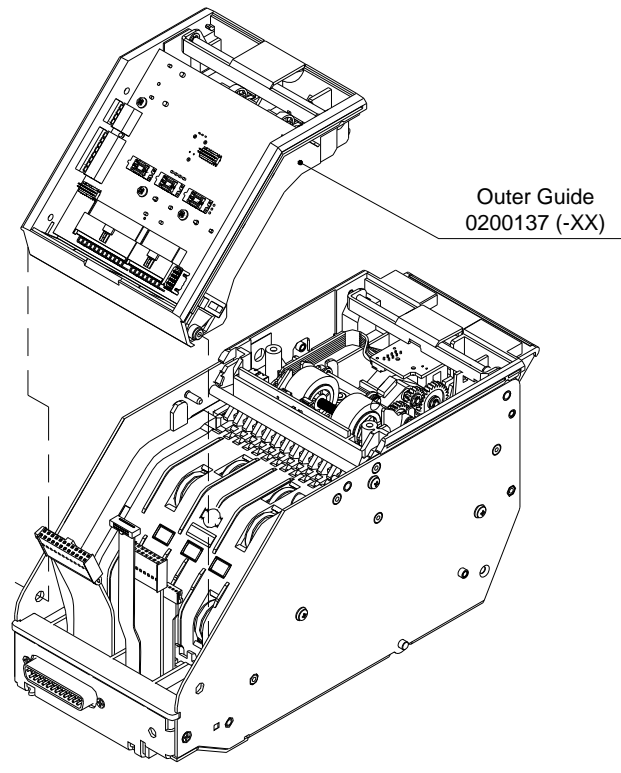
Step 4



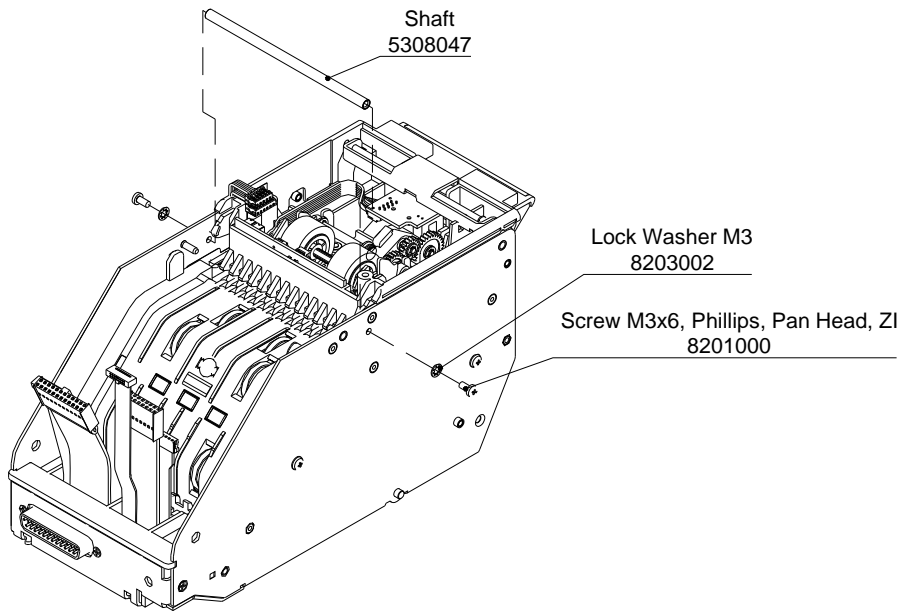
Step 5



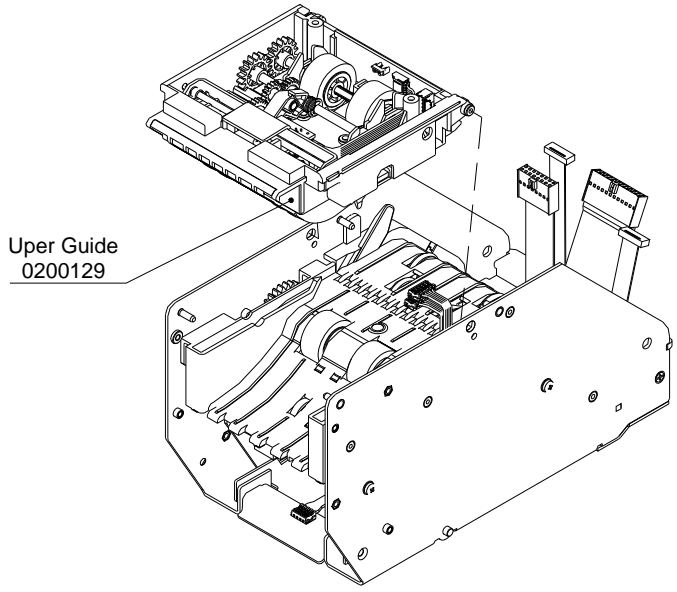
Step 6



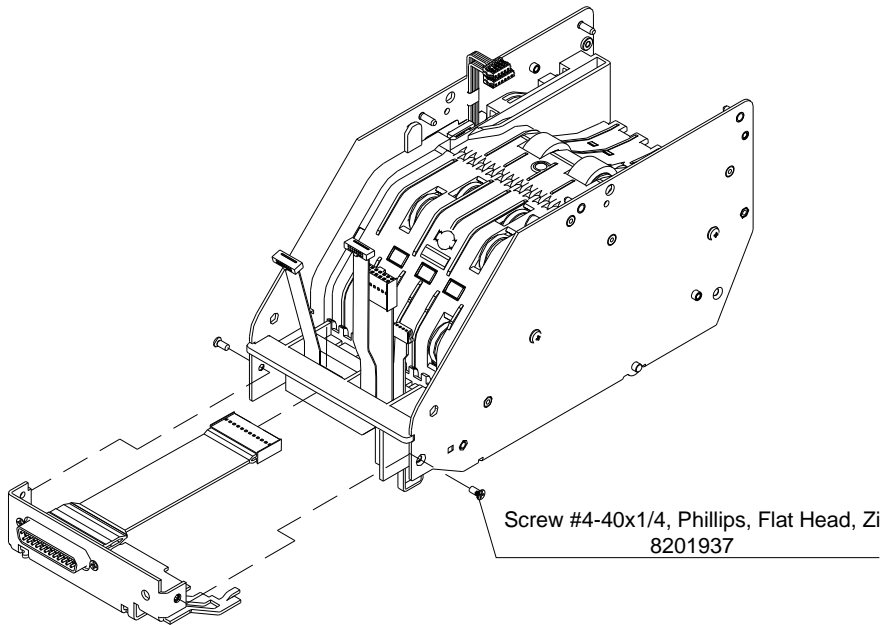
Step 7



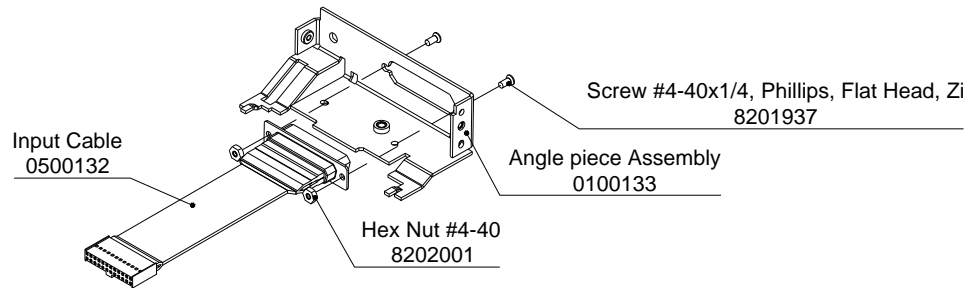
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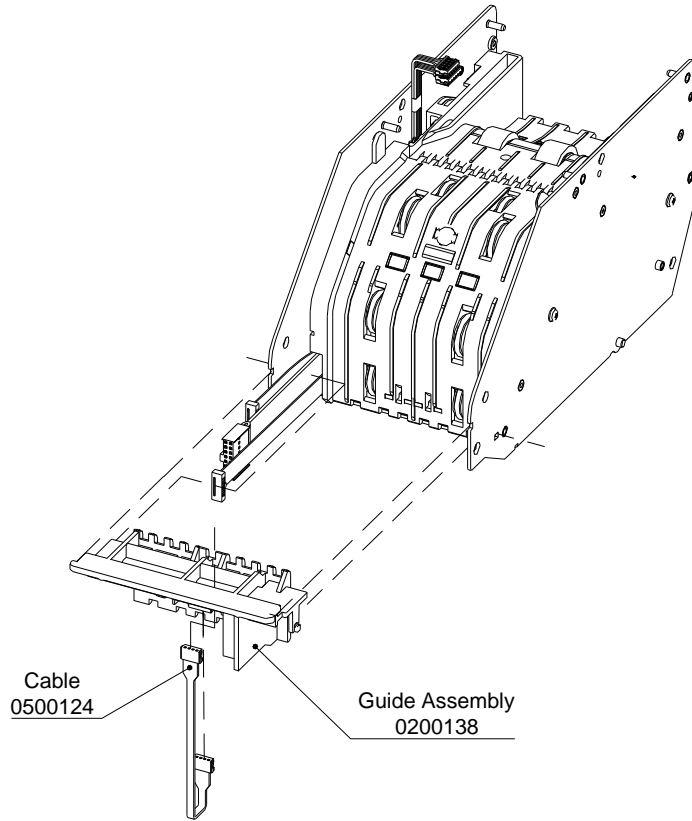
Step 9



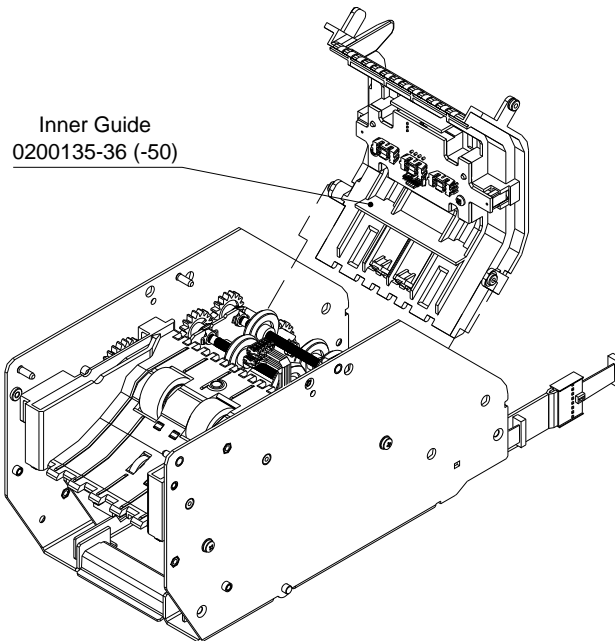
Step 10



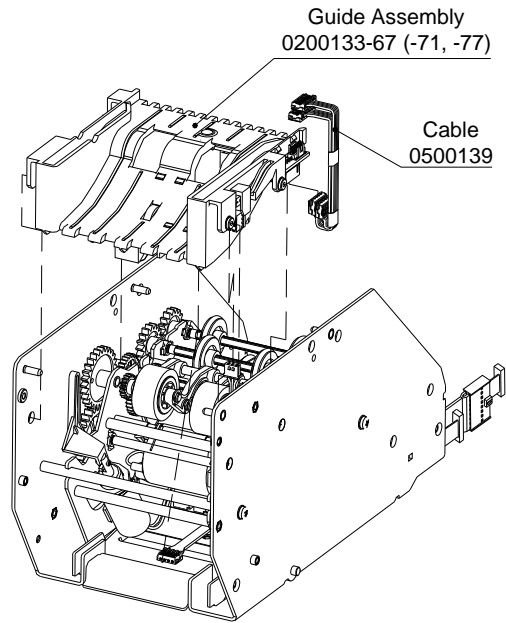
Step 11



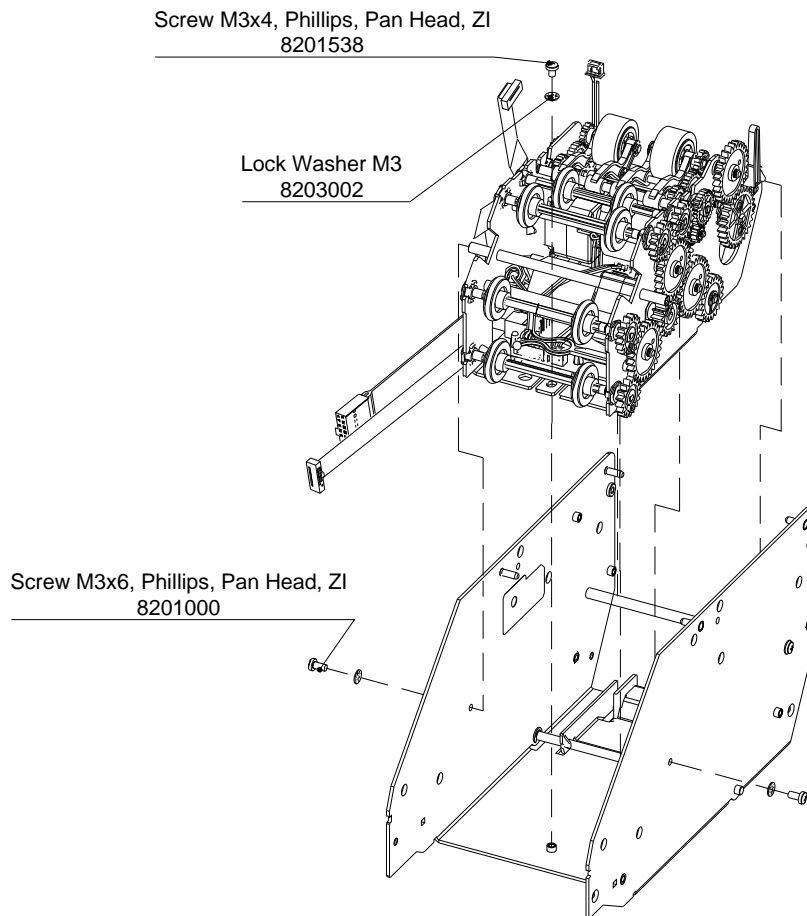
Step 12



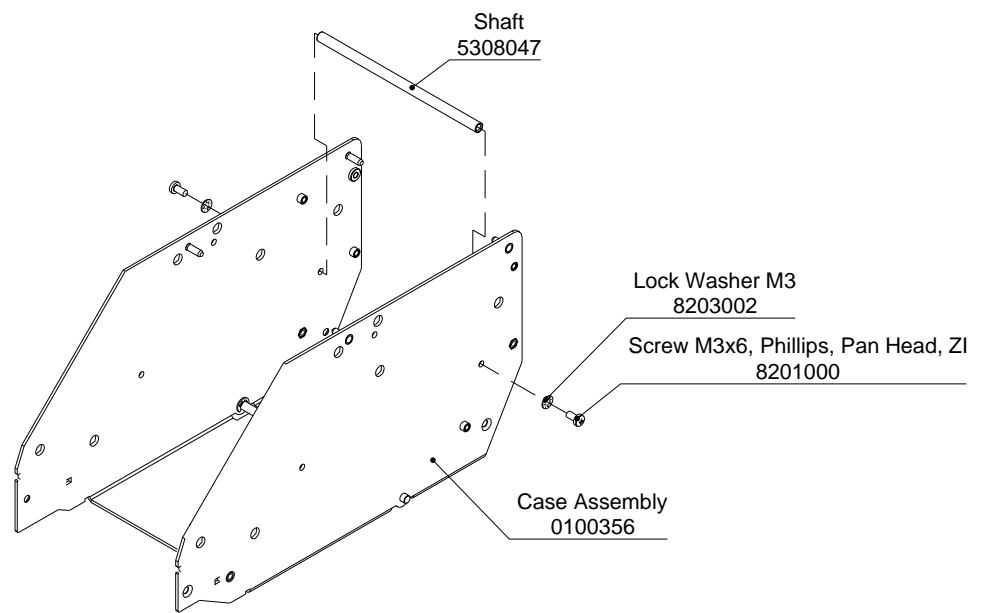
Step 13



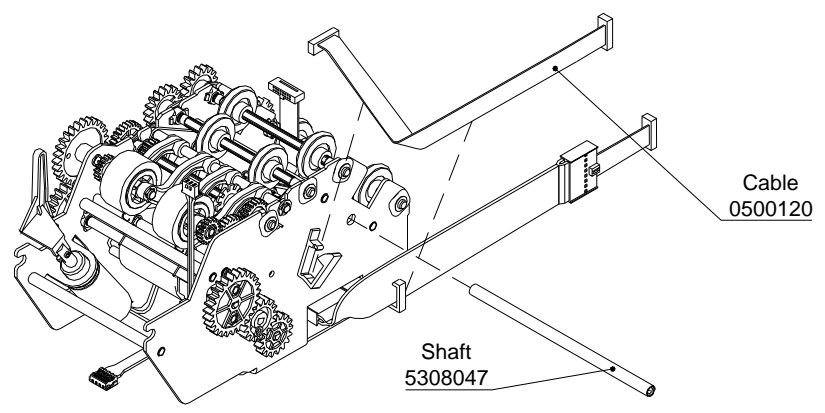
Step 14



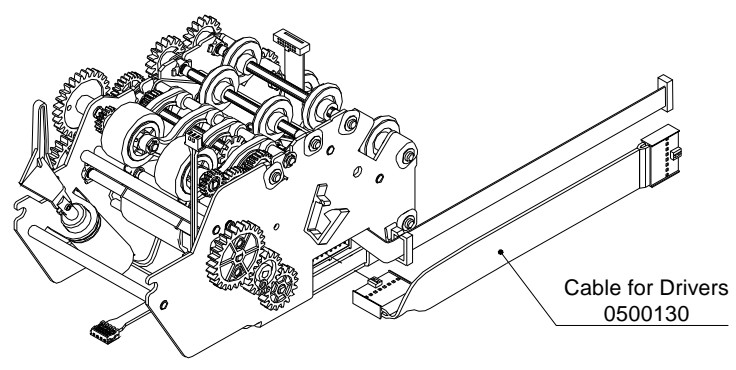
Step 15



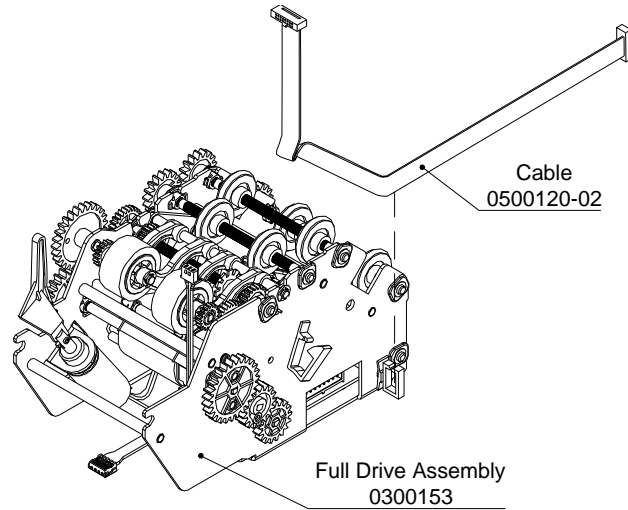
Step 16



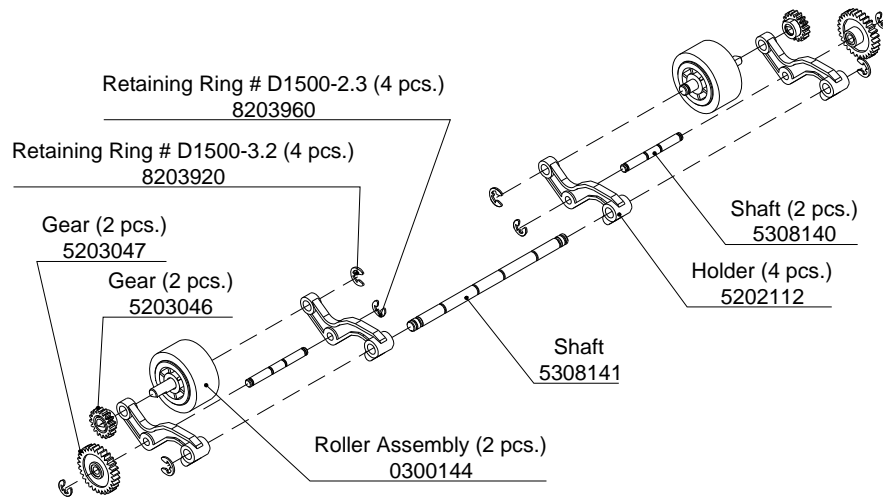
Step 17



Step 20



Separate Rollers' (0300145) – Exploded view



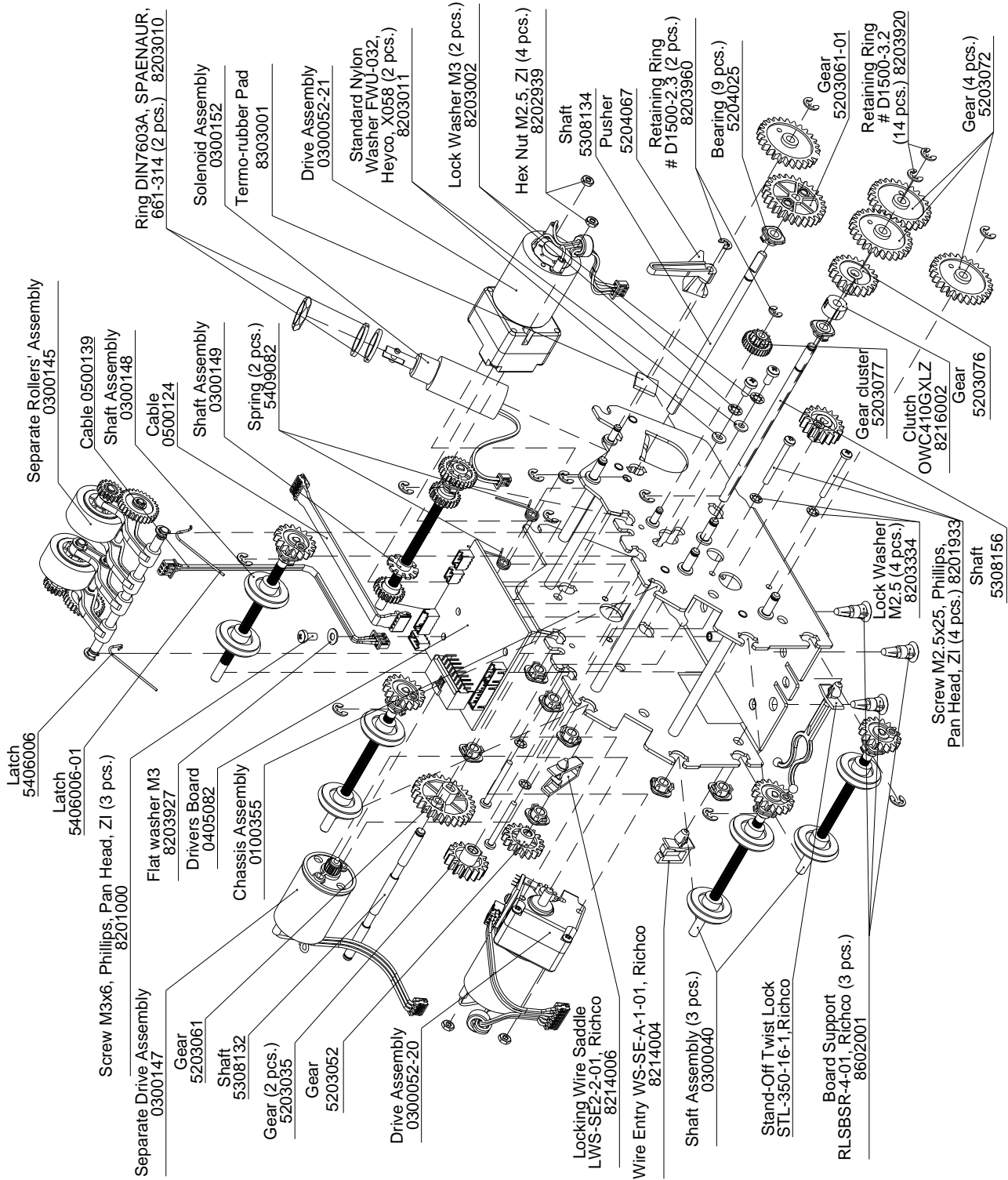
Part ID	Description	Qty.	
0300144	Roller Assembly	2	LV01.11.510
5202112	Holder	4	LV01.11.112
5203046	Gear	2	VU02.10.001
5203047	Gear	2	VU02.10.002
5308140	Shaft	2	LV01.11.004
5308141	Shaft	1	LV01.11.501
8203920	Retaining Ring N D1500-3.2	4	8203920
8203960	Retaining Ring #D1500-2.3	4	8203960

Disassembly

Tools required:

- Flat screwdriver

Full Drive (0300153) – Exploded view



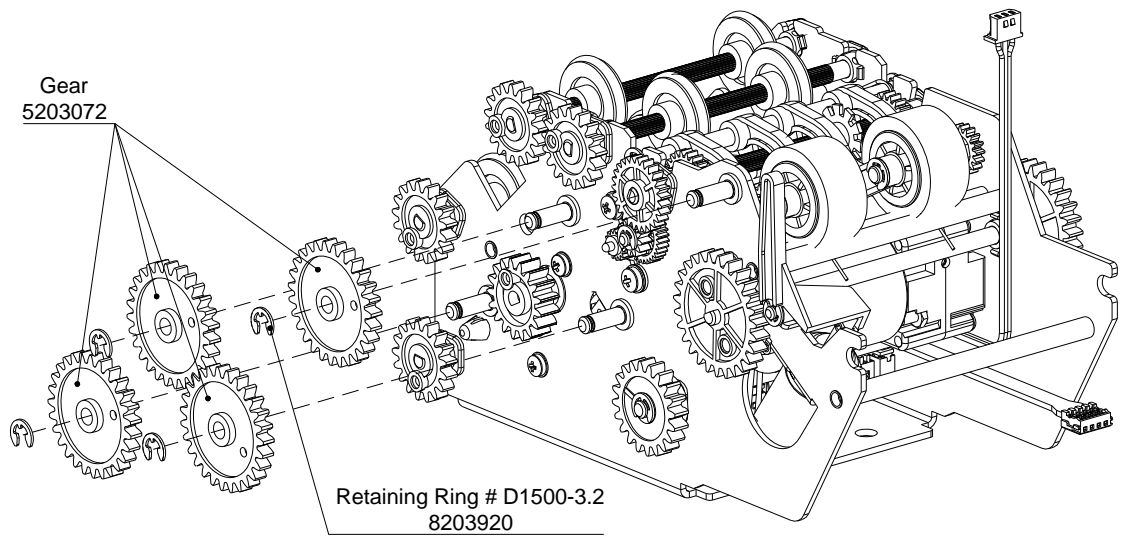
Part ID	Description	Qty.	
0100355	Chassis Assembly	1	LV01.18.100
0300040	Shaft Assembly	3	FL04.05.260
0300052-20	Drive Assembly	1	FL04.20.000-20
0300052-21	Drive Assembly	1	FL04.20.000-21
0300145	Separate Rollers' Assembly	1	LV01.11.500
0300146	Separate Drive Assembly	1	LV01.20.000
0300148	Shaft Assembly	1	LV01.18.260
0300149	Shaft Assembly	1	LV01.18.400
0300152	Solenoid Assembly	1	LV01.18.010
0405082	LDR3 Driver Board	1	LV01.59.000
0500124	Cable Assembly	1	MM01.10.500
0500155	Cable Assembly	1	LV01.10.400
5203035	Gear	2	FL04.05.242
5203052	Gear	1	BB01.51.007
5203061	Gear	1	BB01.77.001
5203061-01	Gear	1	BB01.77.001-01
5203072	Gear	4	LV01.18.005
5203076	Gear	1	LV01.18.102
5203077	Gear cluster	1	LV01.18.007
5204025	Bearing	9	VU01.05.001
5204067	Pusher	1	LV01.18.008
5308132	Shaft	1	LV01.18.011
5308134	Shaft	1	LV01.18.015
5308136	Shaft	1	LV01.18.301
5406006	Latch	1	LV01.18.013
5406006-01	Latch	1	LV01.18.013-01
5409082	Spring	2	LV01.18.003
8201000	Screw M3x6, Phil., Pan Head, Zinc	3	8201000
8201933	Screw M2.5x25, Phil, Pan Head, Zi	4	8201933
8202939	Hex Nut M2.5, Zinc	4	8202939
8203002	Lock Washer M3, Internal teeth	2	8203002
8203010	Sealing Ring 12x16	2	8203010
8203011	Nylon Washer FWU 4-032	2	8203011
8203334	Lock Washer M2.5, Int. Teeth, Zn	4	8203334
8203920	Retaining Ring N D1500-3.2	14	8203920
8203927	Flat Washer M3, Zinc	1	8203927
8203960	Retaining Ring #D1500-2.3	2	8203960
8214004	Side Entry WS-SE-A-1-01	1	8214004
8214006	Wire Saddle LWS-SE2-2-01	1	8214006
8214009	Stand-Off STL-350-16-01	1	8214009
8216002	Overrunning Clutch OWC410GXLZ	1	8216002
8303001	Pad	1	LV01.18.016
8602001	Board Support RLCBSPR-4-01	3	8602001

Disassembly

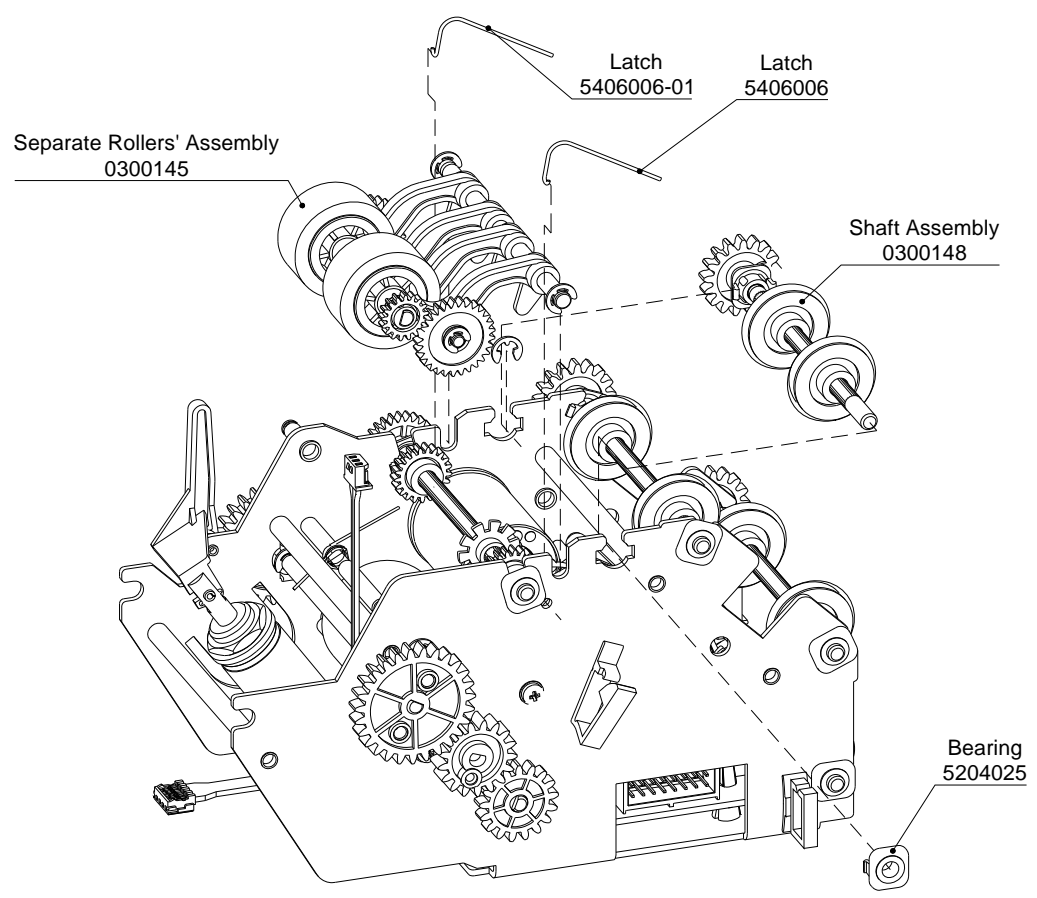
Tools required:

- Flat screwdriver
- Philips screwdriver #1
- Tweezers

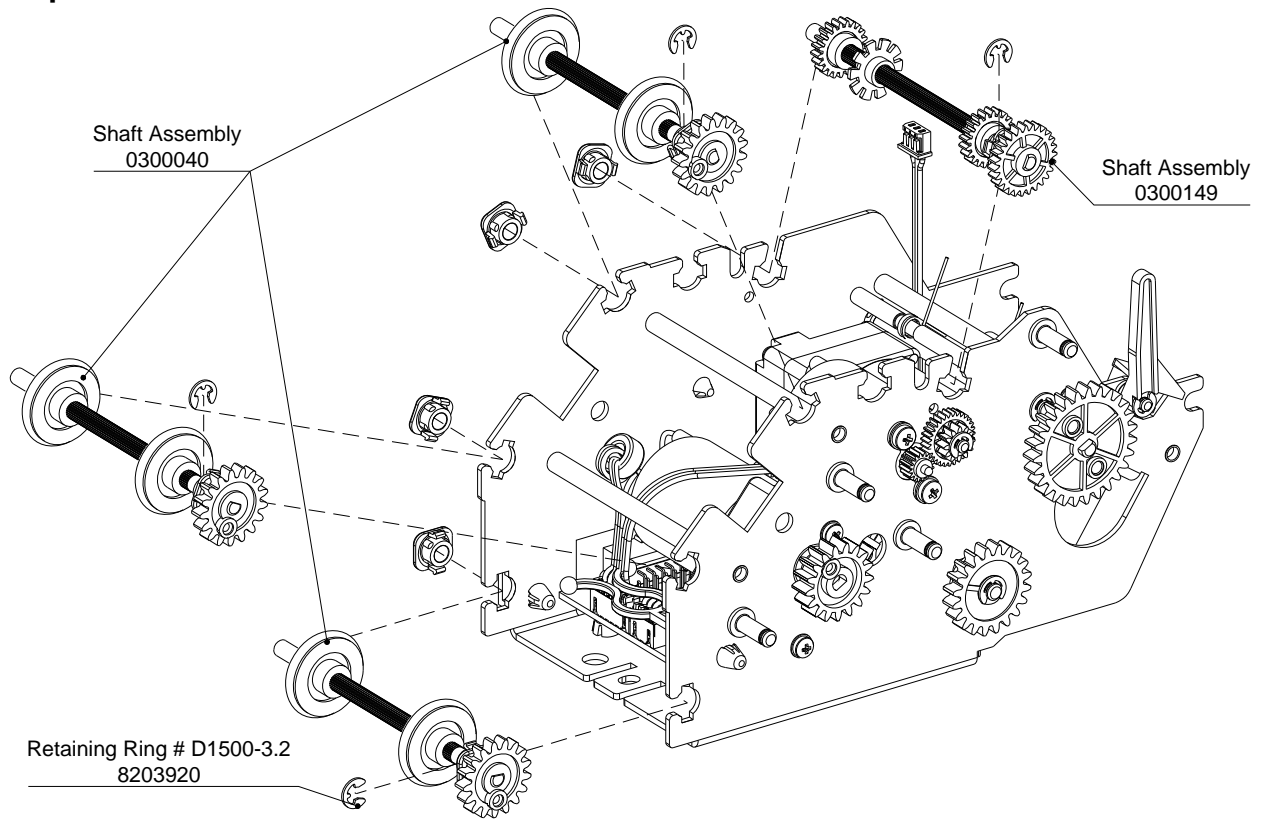
Step 1



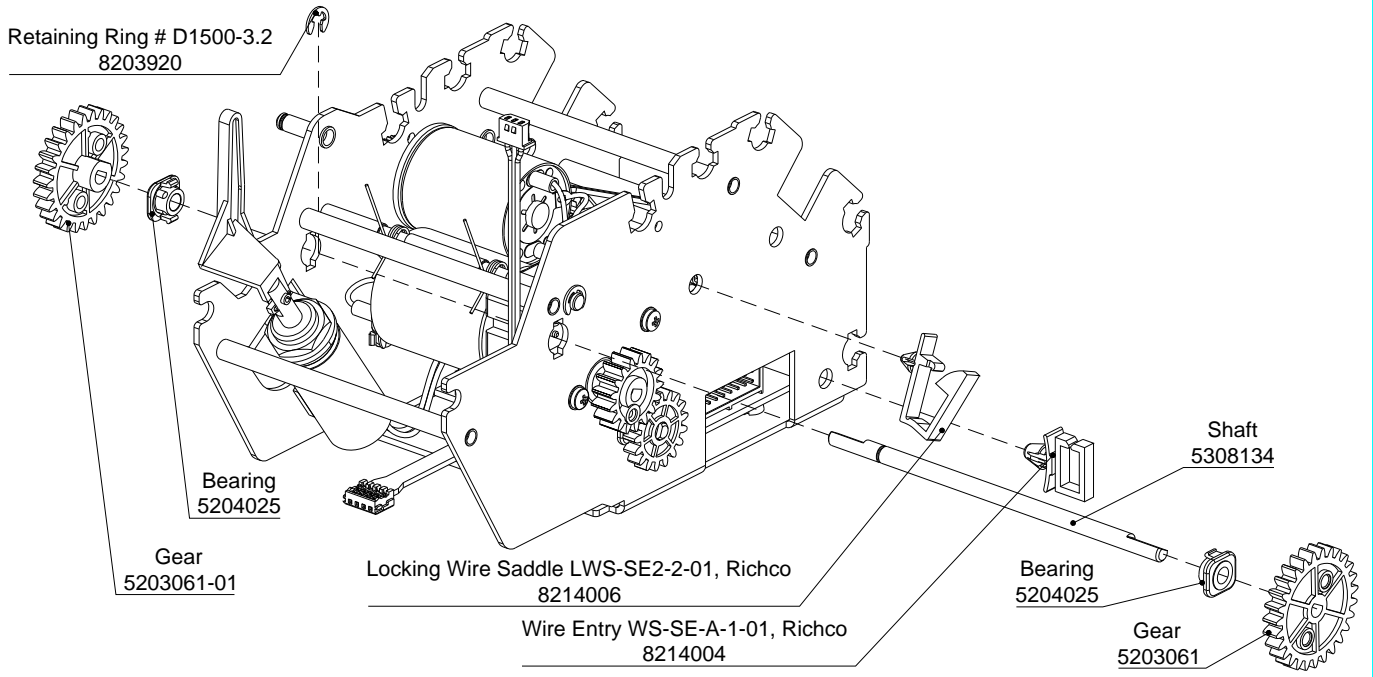
Step 2



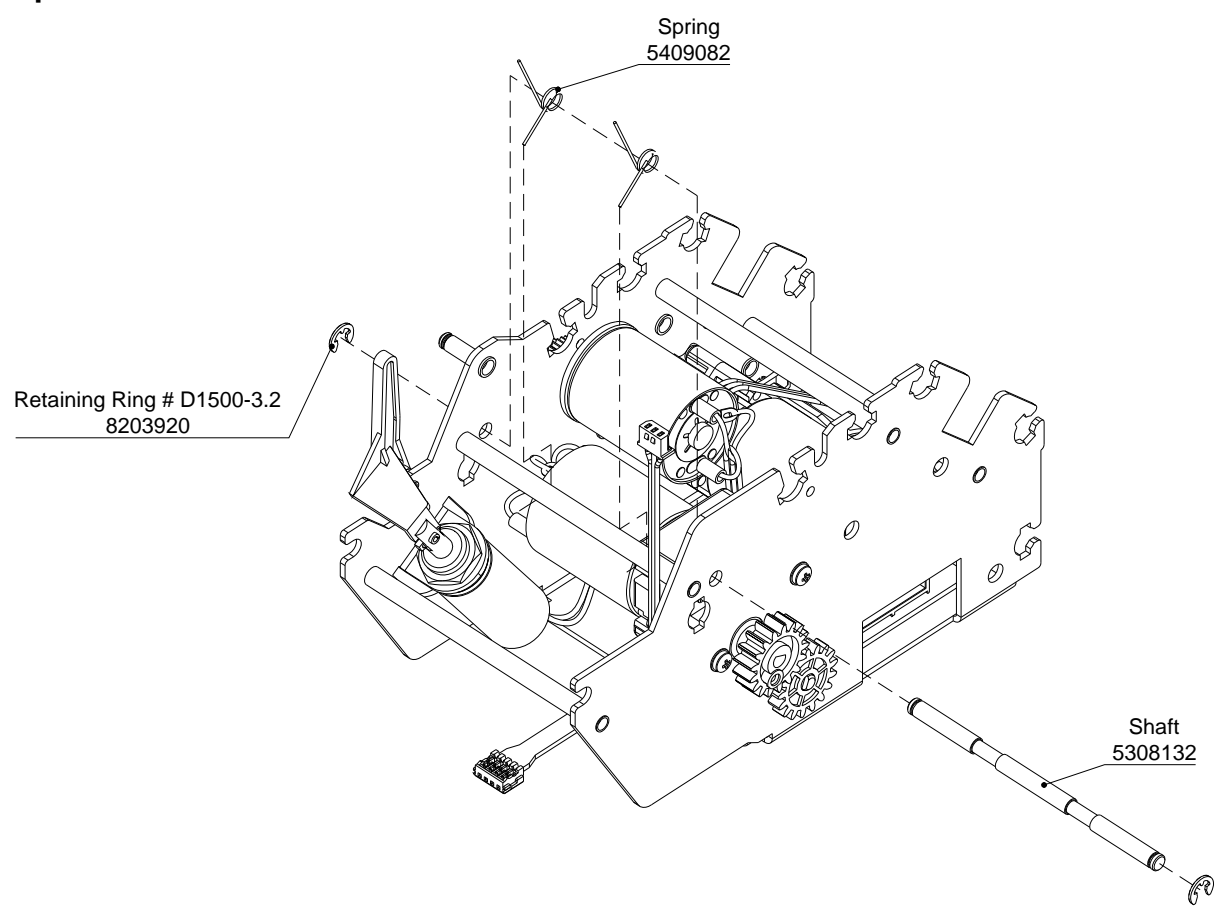
Step 3



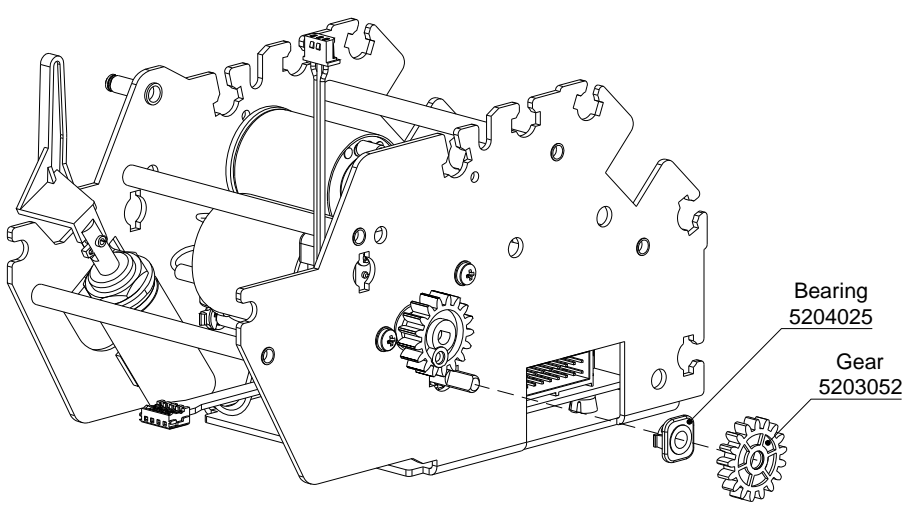
Step 4

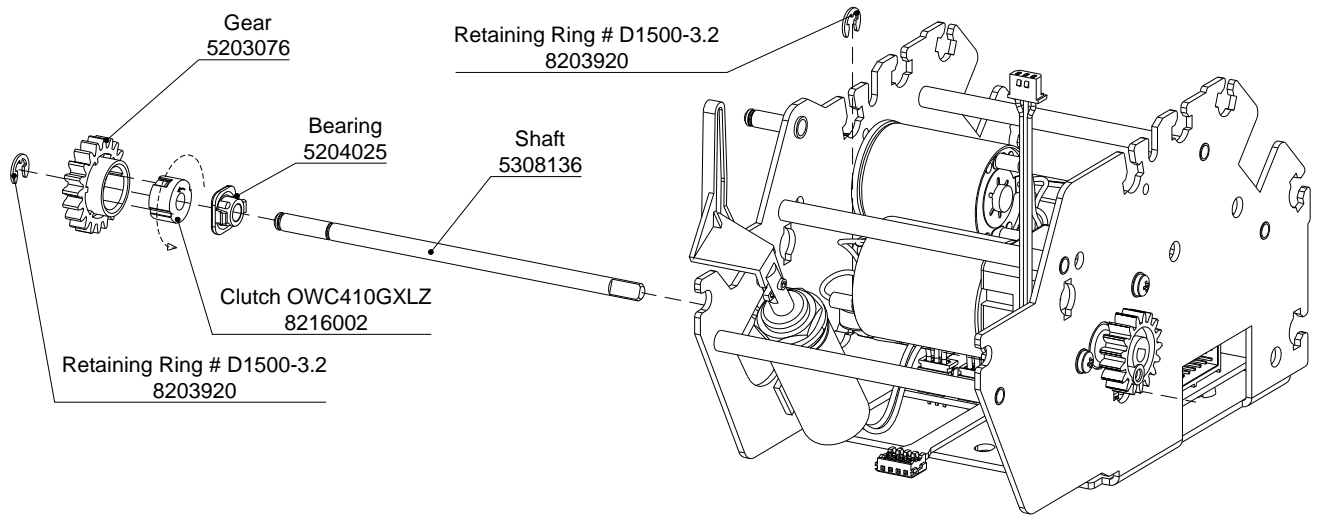


Step 5

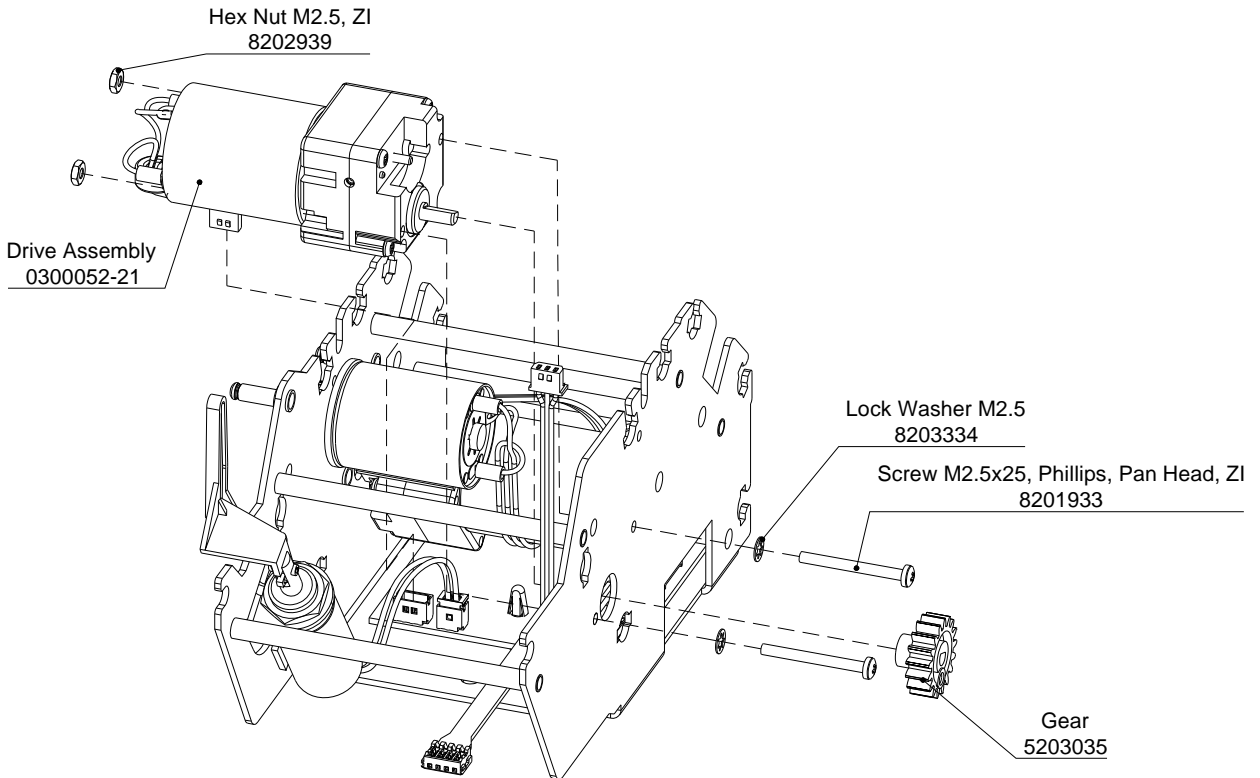


Step 6

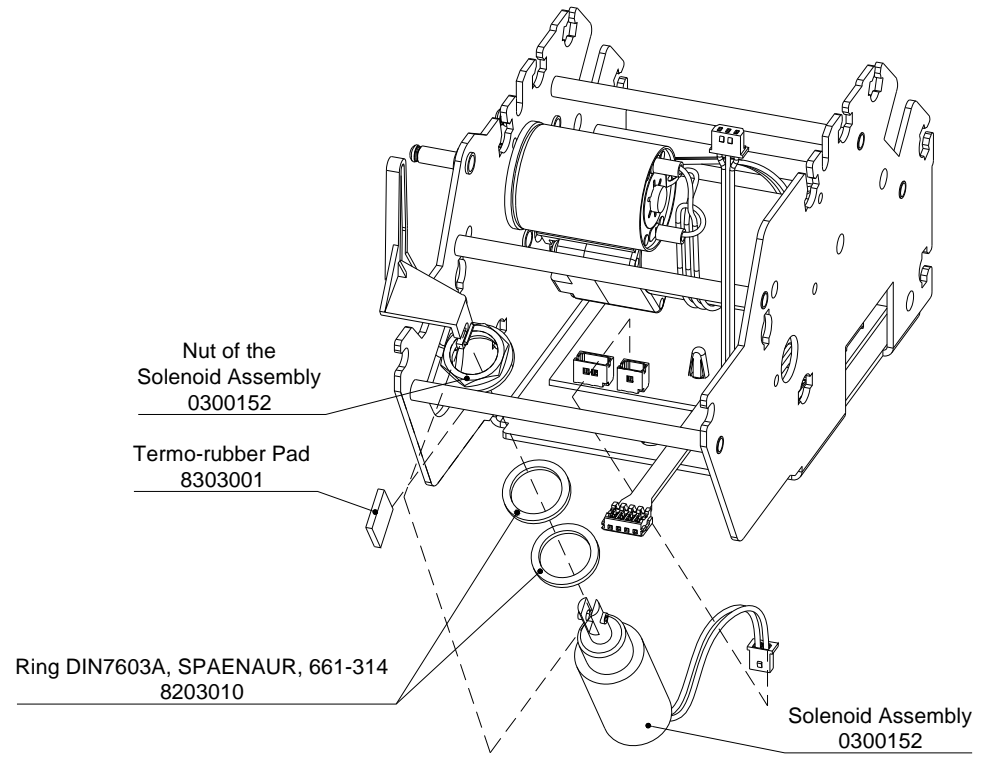




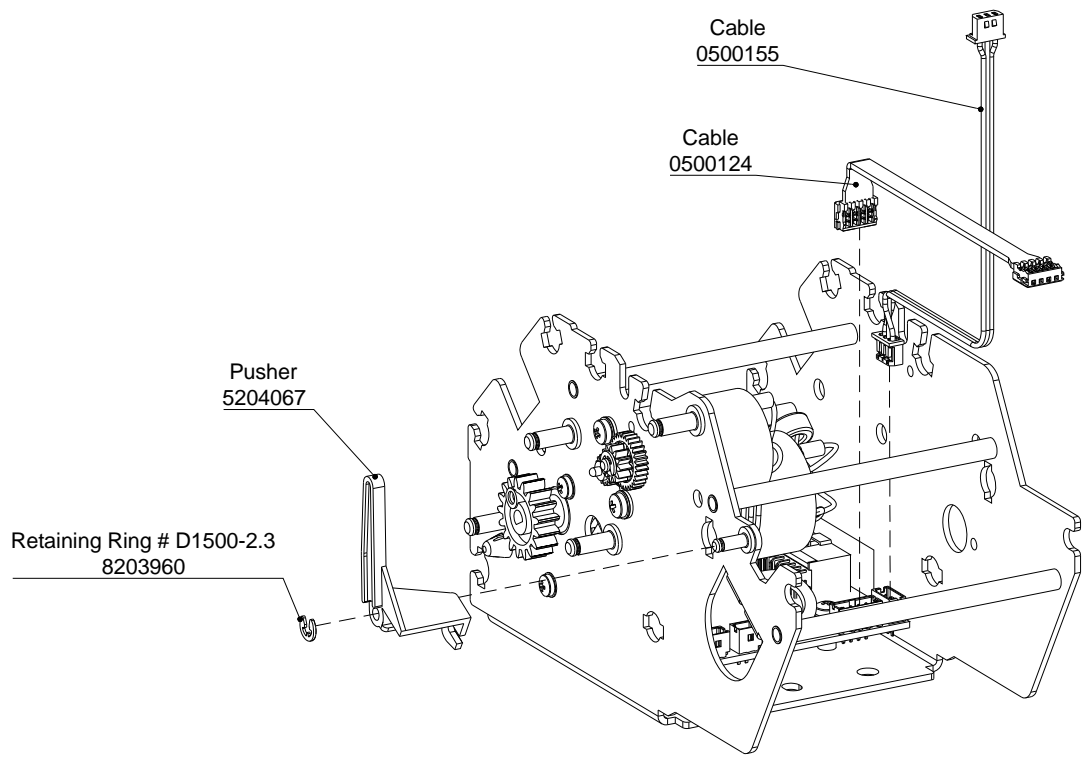
Step 7



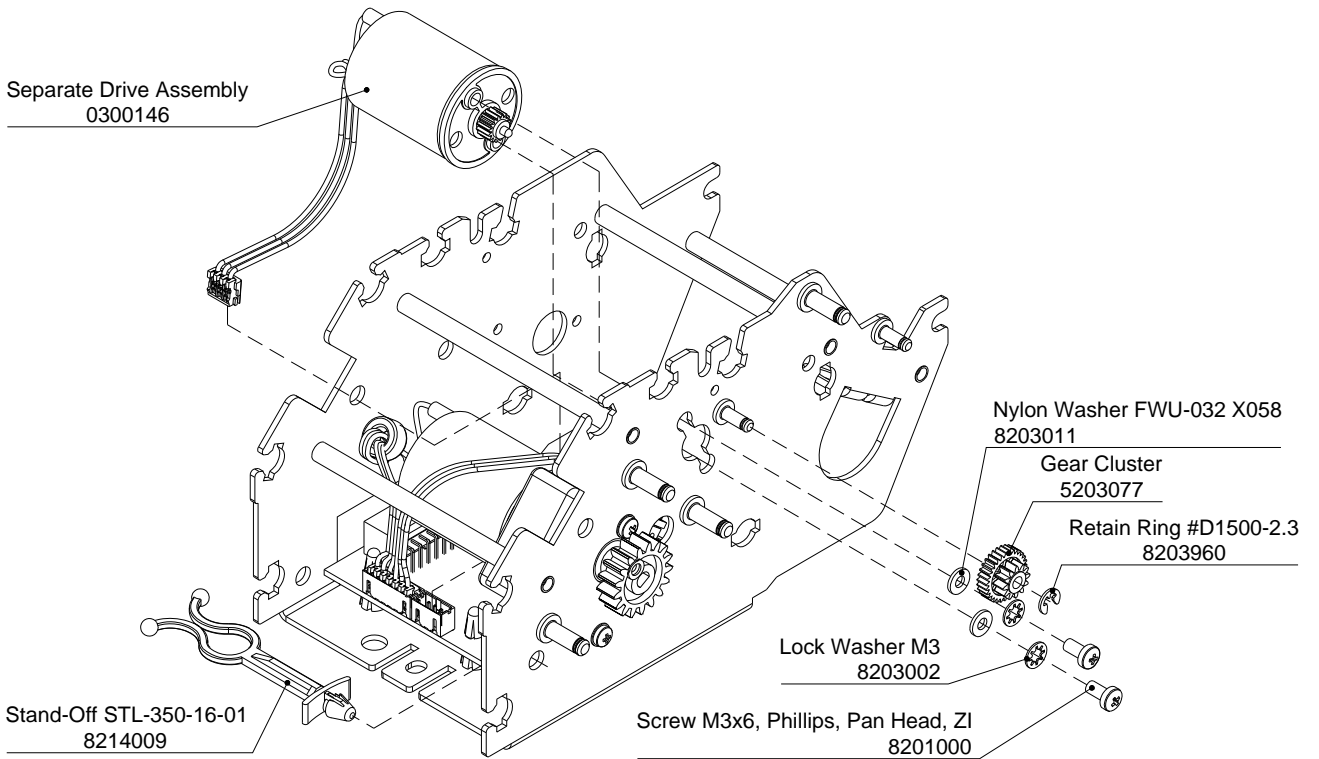
Step 8



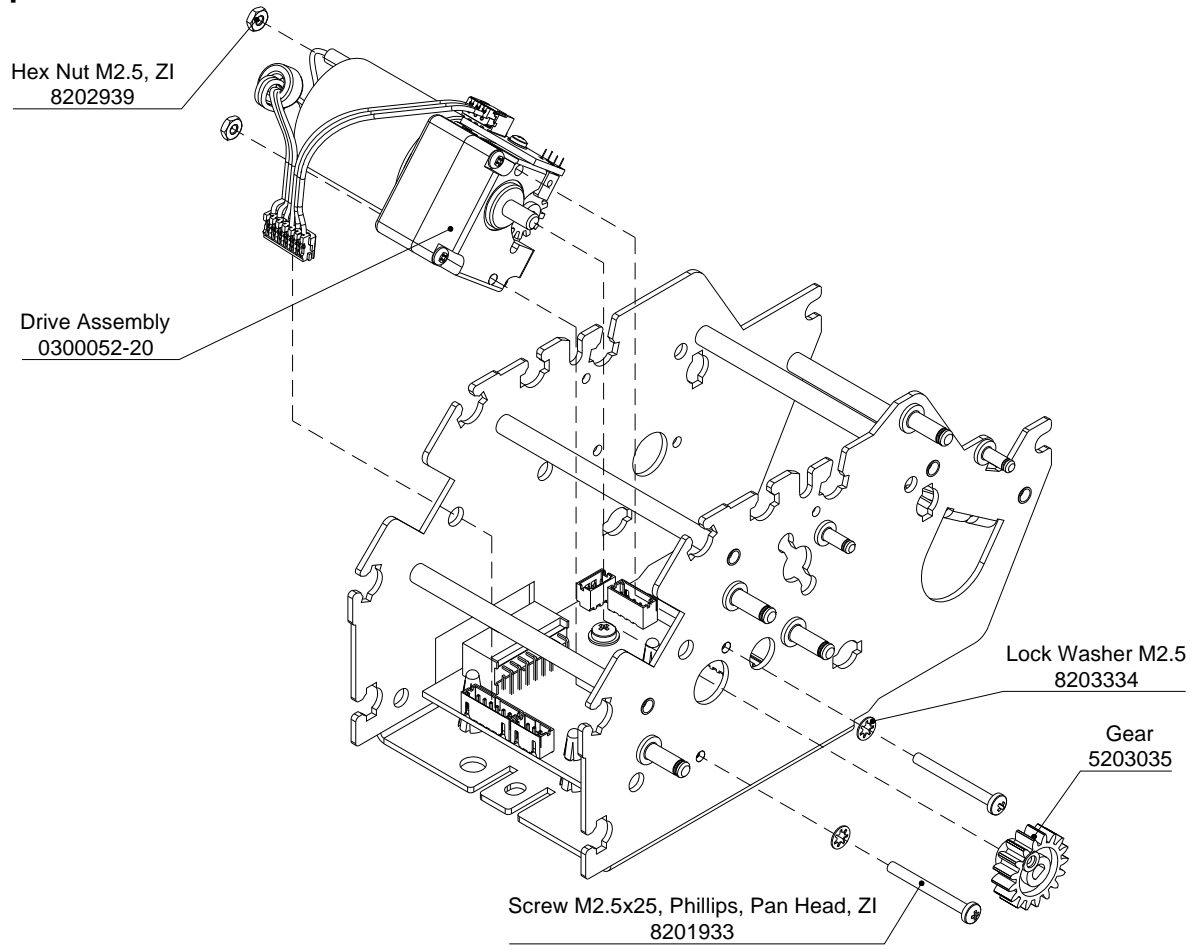
Step 9



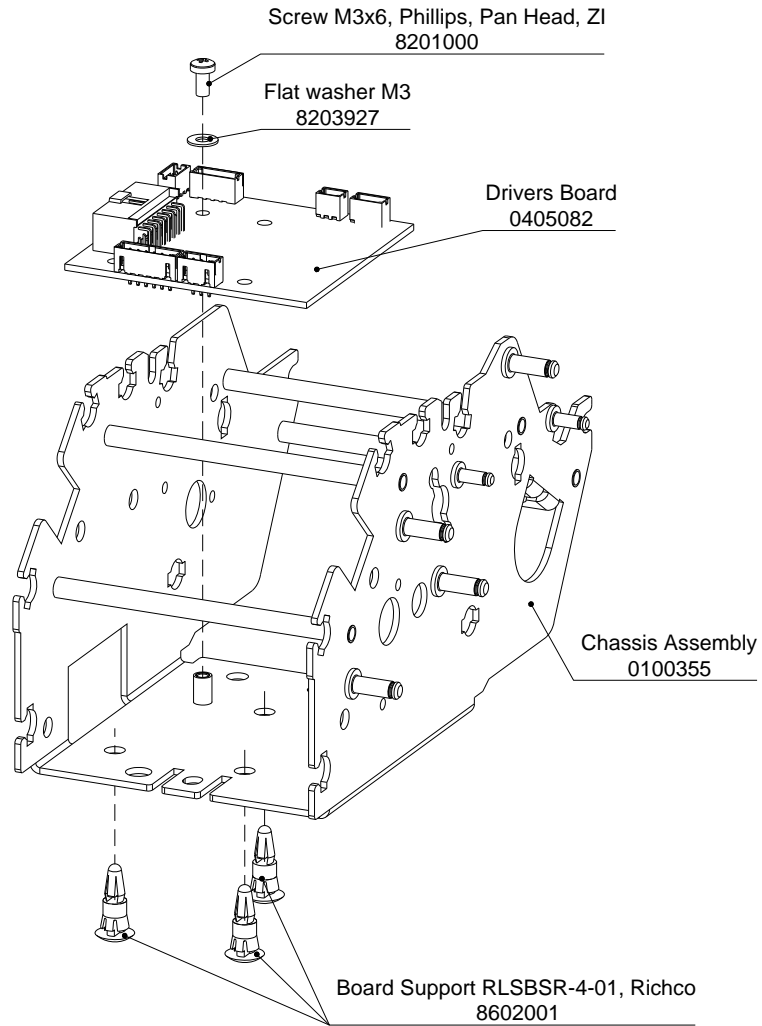
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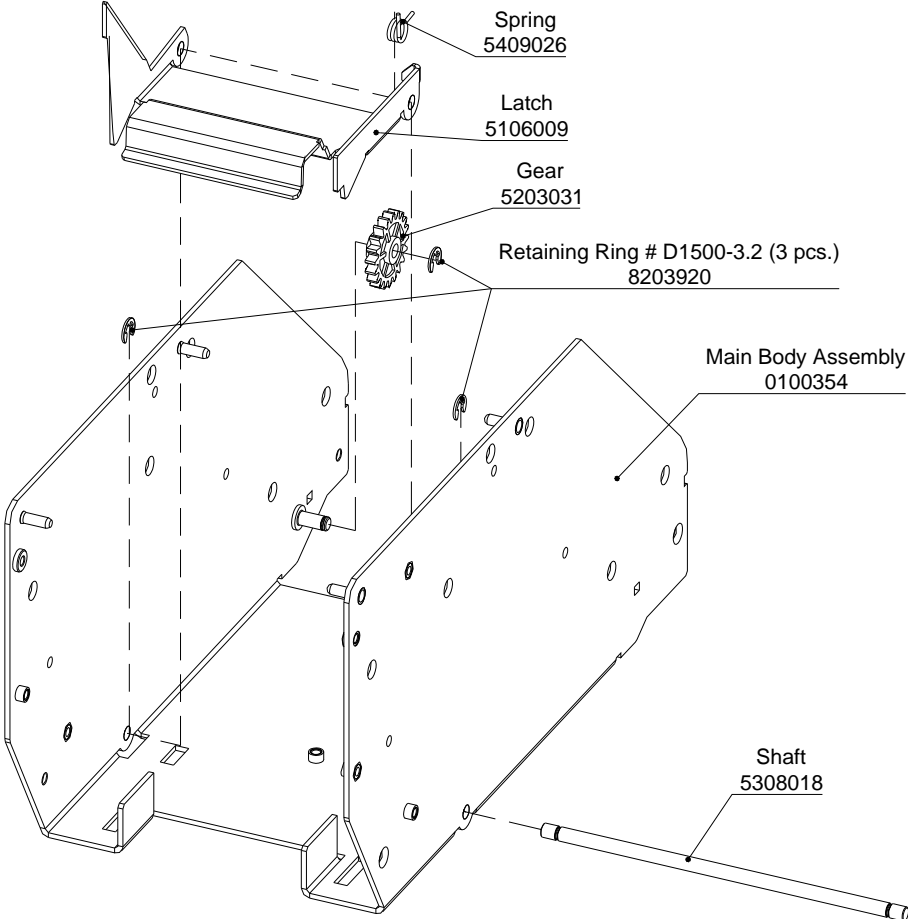
Step 11



Step 12



Case (0100356) – Exploded view



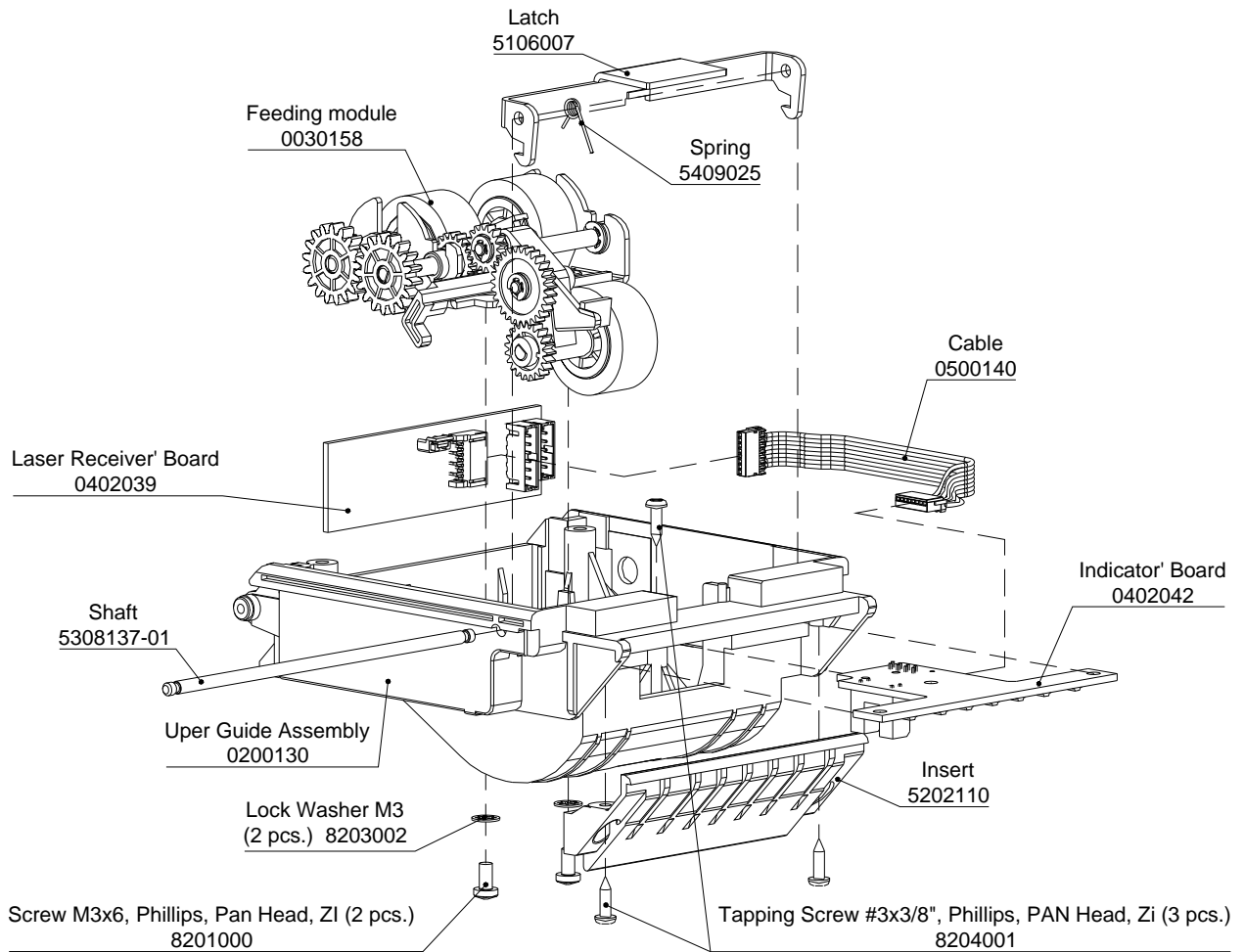
Part ID	Description	Qty.	
0100354	Main Body Assembly	1	LV01.19.100
5106009	Latch	1	FL04.05.001
5203031	Gear	1	FL04.05.102
5308018	Shaft	1	FL04.05.002
5409026	Spring	1	FL04.05.003
8203920	Retaining Ring N D1500-3.2	3	8203920

Disassembly

Tools required:

- Flat screwdriver

Upper Guide (0200129) – Exploded view



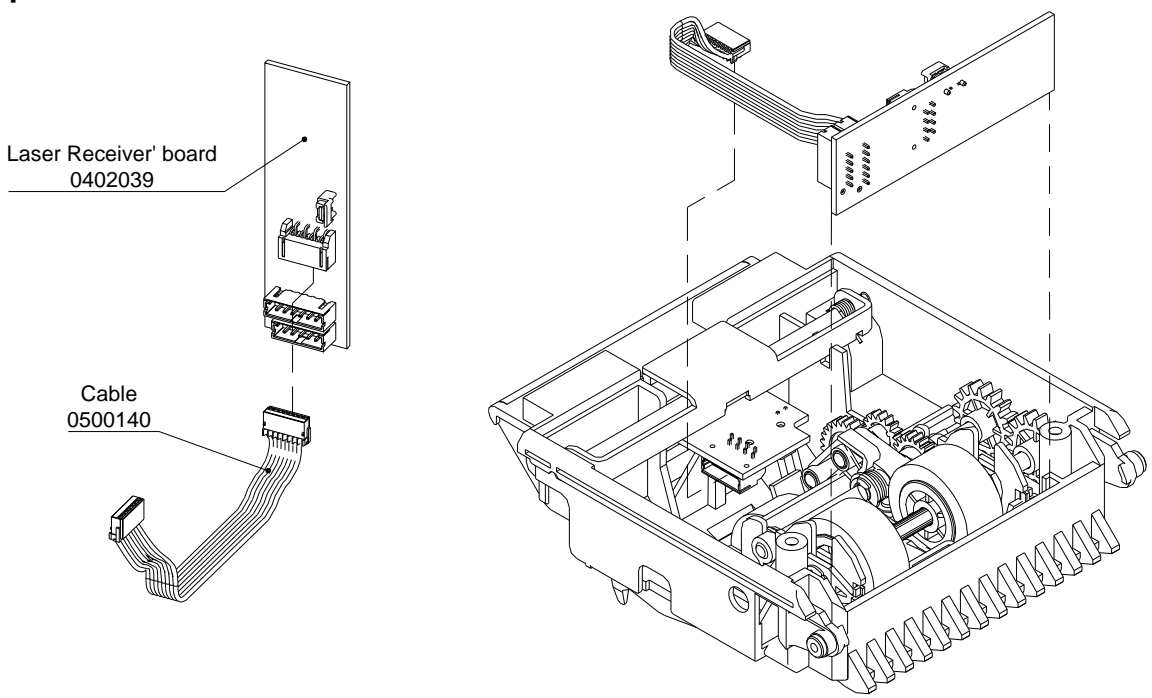
Part ID	Description	Qty.	
0200130	Upper Guide Assembly	1	LV01.21.100
0300158	Feeding Module Assembly	1	LV01.21.300
0402039	Laser Receivers Board	1	LV01.58.000
0402042	Sensors Board	1	LV01.61.000
0500140	Cable Assembly	1	LV01.21.150
5106007	Latch	1	FL04.01.002
5202110	Insert	1	LV01.21.004
5308137-01	Shaft	1	LV01.00.009-01
5409025	Spring	1	FL04.01.005
8201000	Screw M3x6, Phil., Pan Head, Zinc	2	8201000
8203002	Lock Washer M3, Internal teeth	2	8203002
8204001	Tapping Screw #3x3/8", Ph, Zi	3	8204001

Disassembly

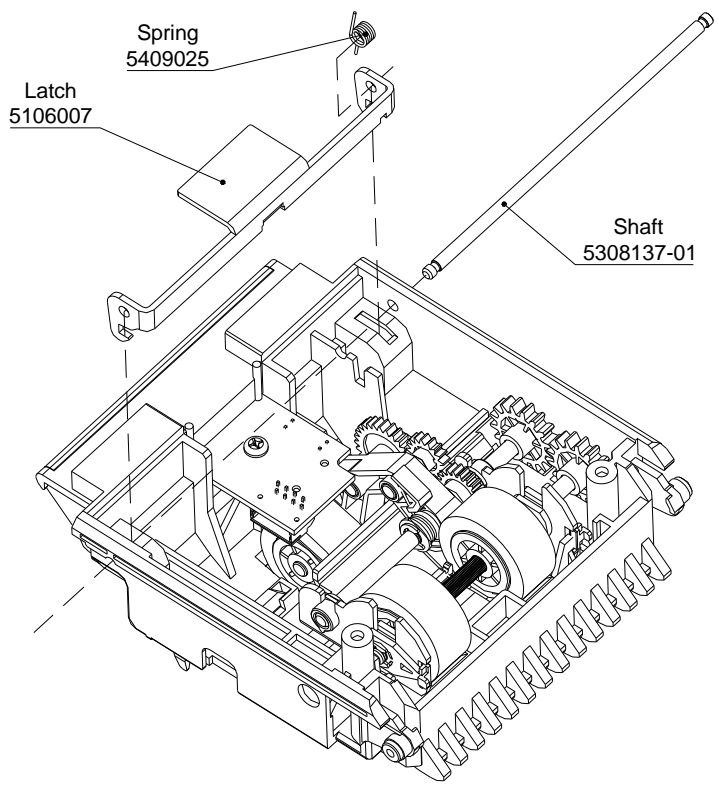
Tools required:

- Philips screwdriver #1

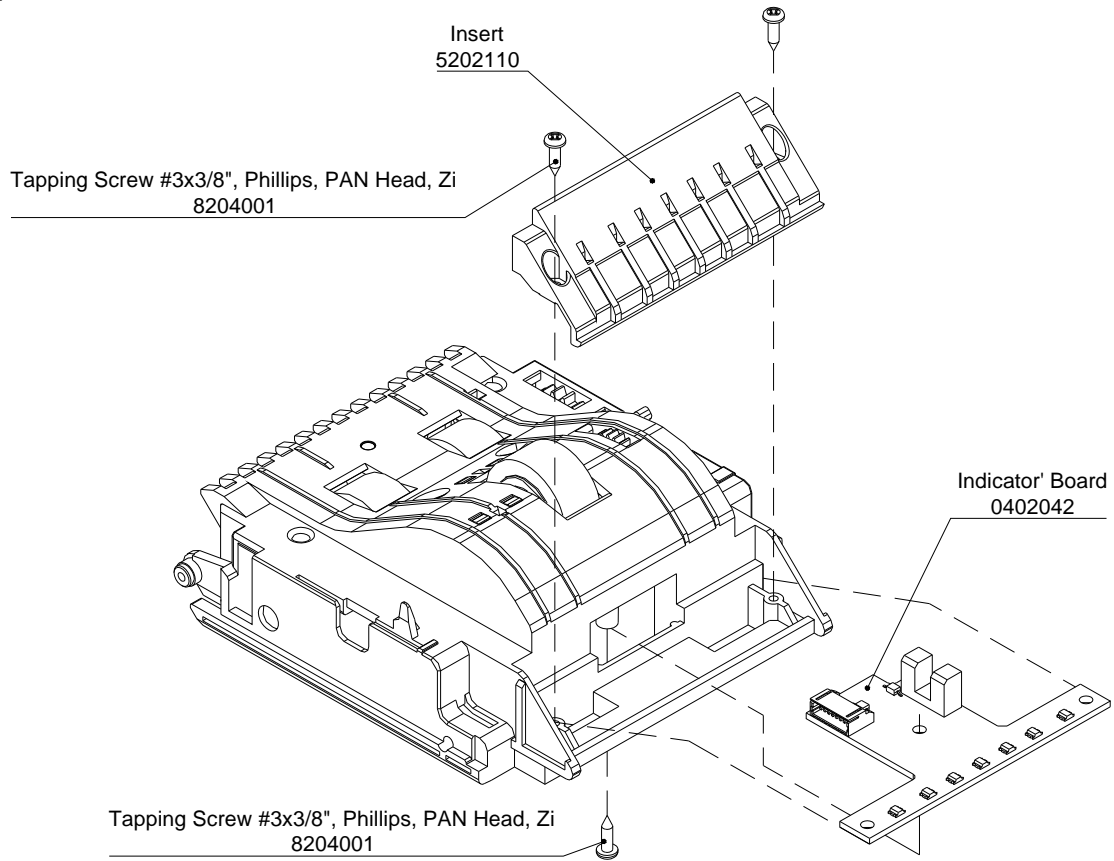
Step 1



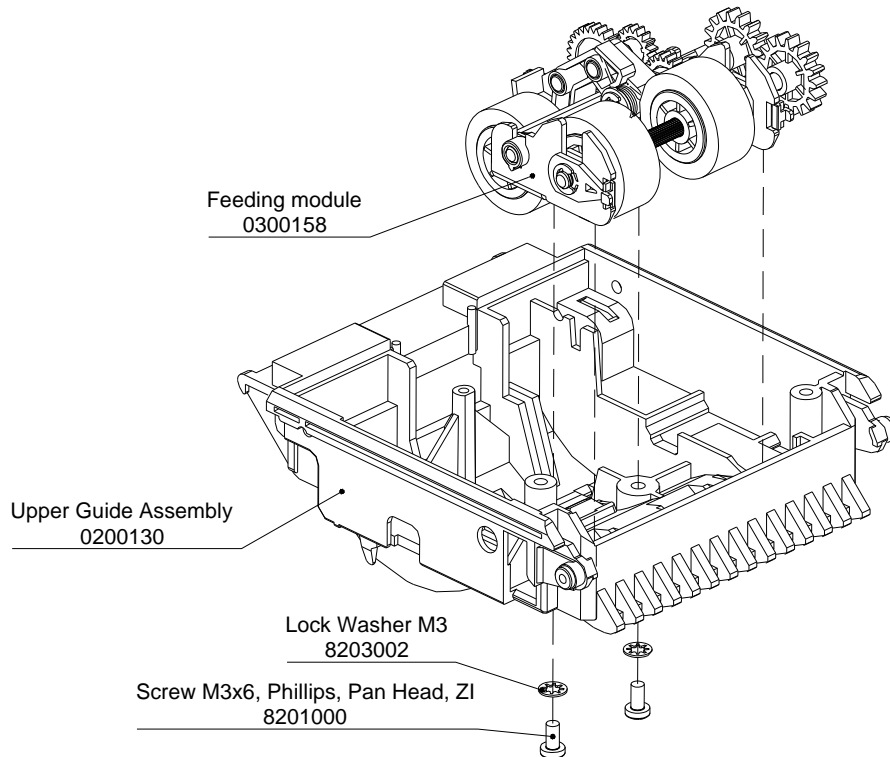
Step 2



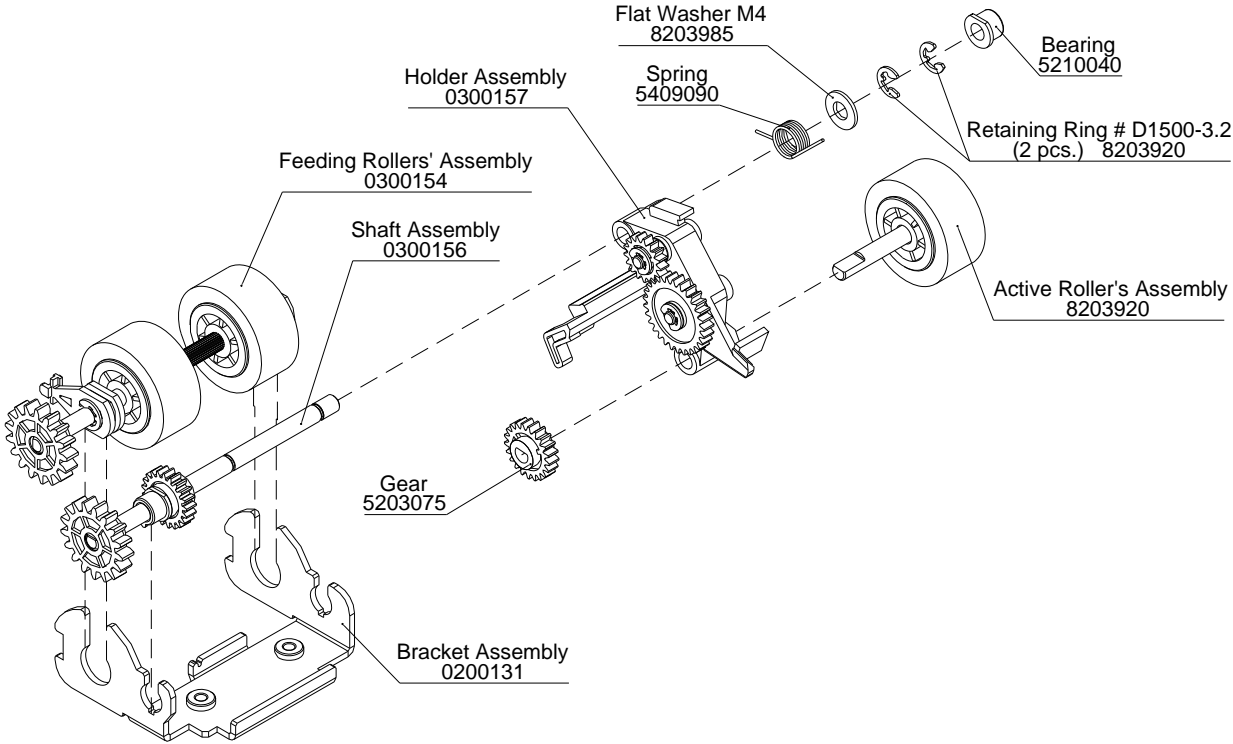
Step 3



Step 4



Feeding module (0300158) – Exploded view



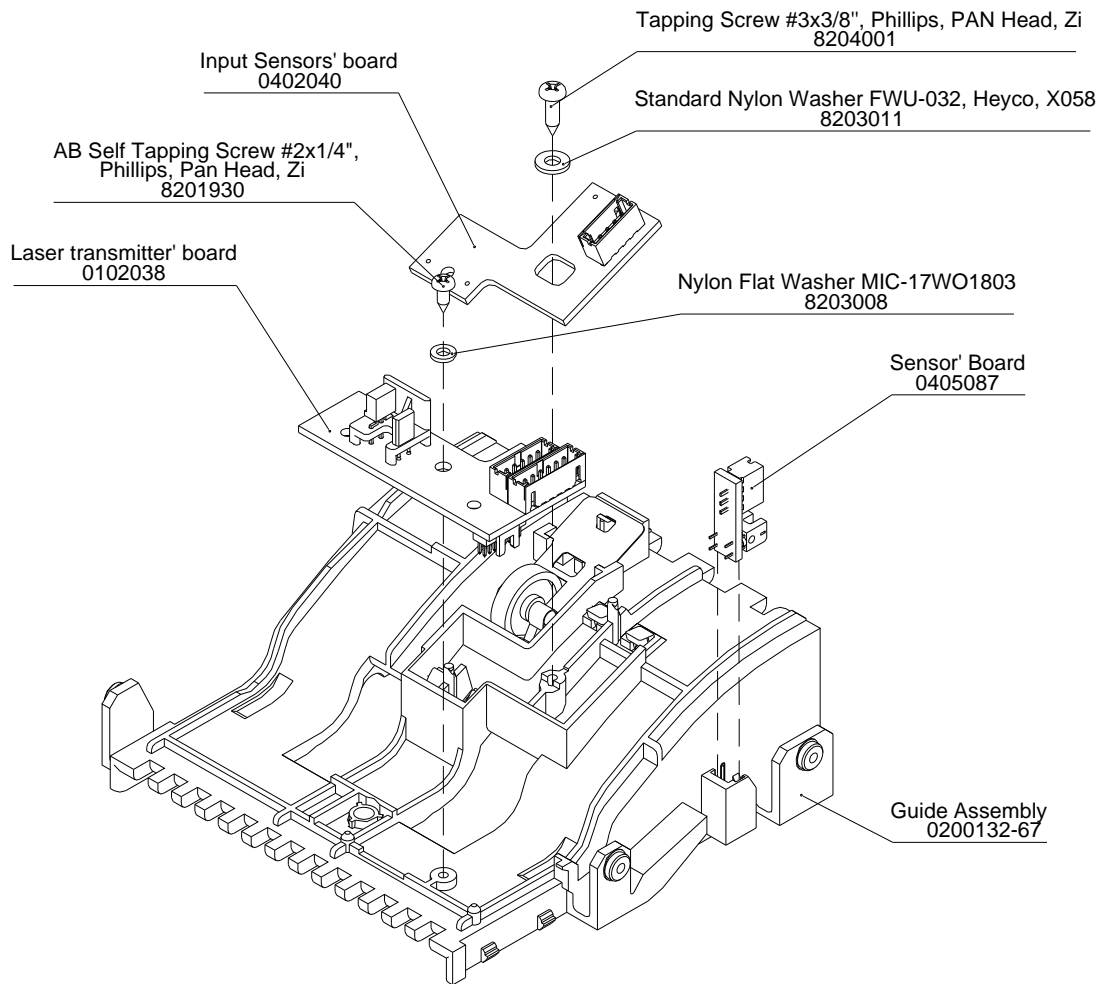
Part ID	Description	Qty.	
0200131	Bracket Assembly	1	LV01.21.330
0300154	Feeding Rollers' Assembly	1	LV01.21.230
0300155	Active Roller's Assembly	1	LV01.21.320
0300156	Shaft Assembly	1	LV01.21.250
0300157	Holder Assembly	1	LV01.21.310
5203075	Gear	1	LV01.11.002
5210040	Bear	1	BB01.61.302
5409090	Spring	1	LV01.21.303
8203920	Retaining Ring N D1500-3.2	2	8203920
8203985	Flat Washer M4	1	8203985

Disassembly

Tools required:

- Flat screwdriver

Guide (0200133) – Exploded view



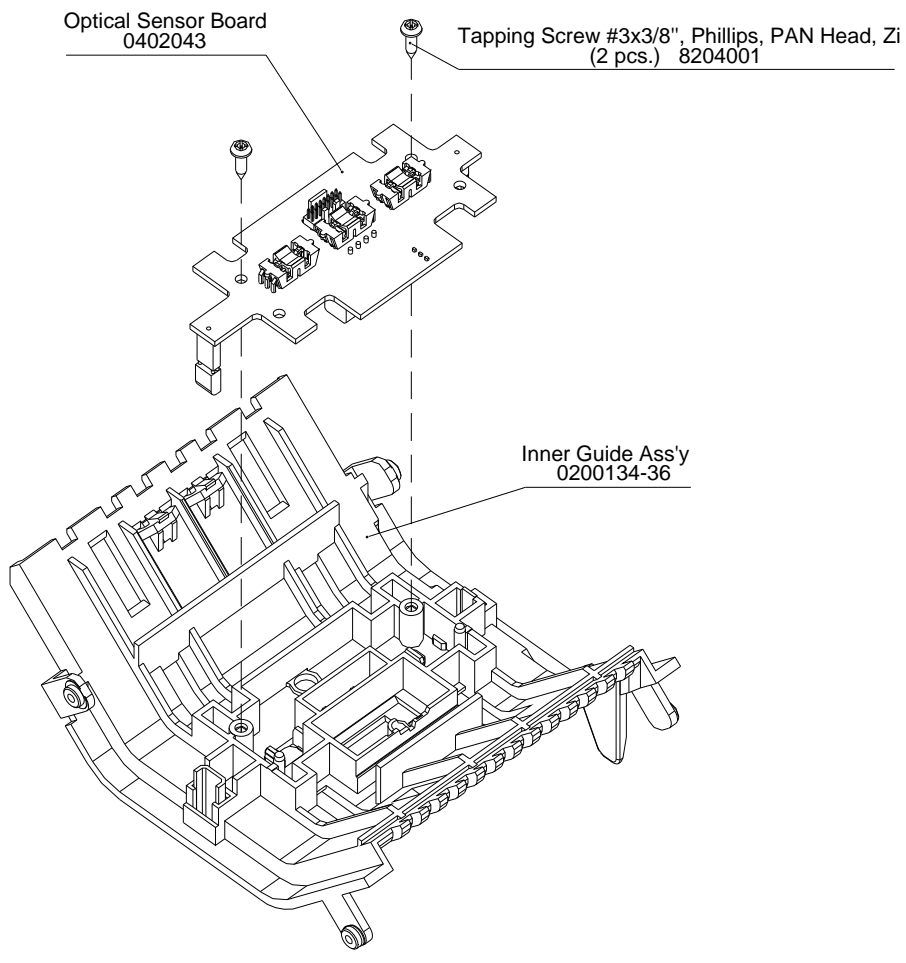
Part ID	Description	Qty.	
0200132-67	Guide Assembly	1	LV01.22.100-67
0402038	Laser Transmitters Board	1	LV01.57.000
0402040	Input Sensors Board	1	LV01.56.000
0405087	Sensors Board	1	LV01.55.000
8201930	Tapping screw, #2x1/4, Pan, Ph	1	8201930
8203008	Nylon Flat Washer MIC-17W01803	1	8203008
8203011	Nylon Washer FWU 4-032	1	8203011
8204001	Tapping Screw #3x3/8", Ph, Zi	1	8204001

Disassembly

Tools required:

- Philips screwdriver #1

Inner Guide (0200135) – Exploded view



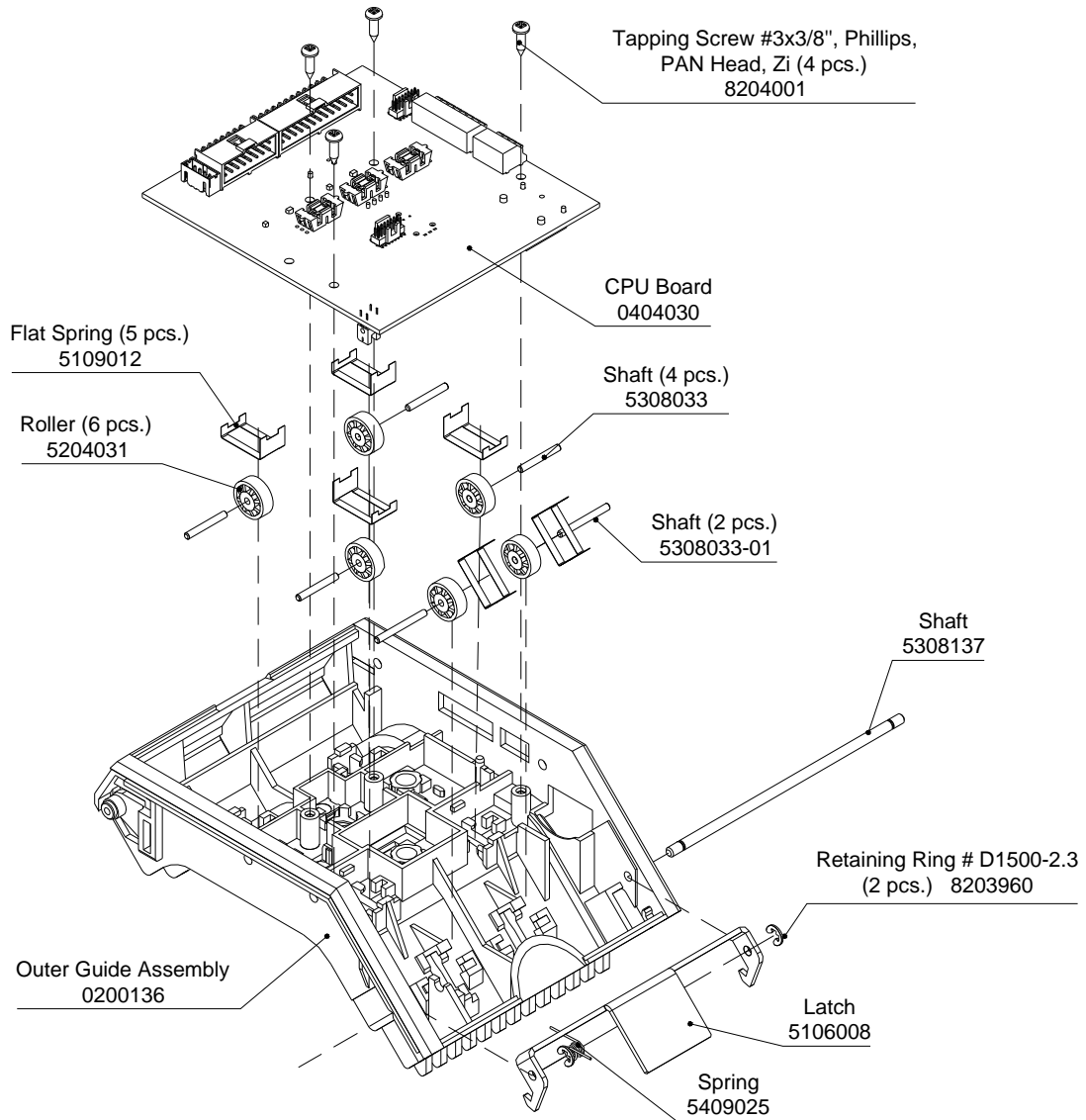
Part ID	Description	Qty.	
0200134-36	Inner Guide Assembly	1	LV01.23.100-36
0402043	Optical Sensor Board	1	LV01.53.000
8204001	Tapping Screw #3x3/8", Ph, Zi	2	8204001

Disassembly

Tools required:

- Philips screwdriver #1

Outer Guide (0200137) – Exploded view



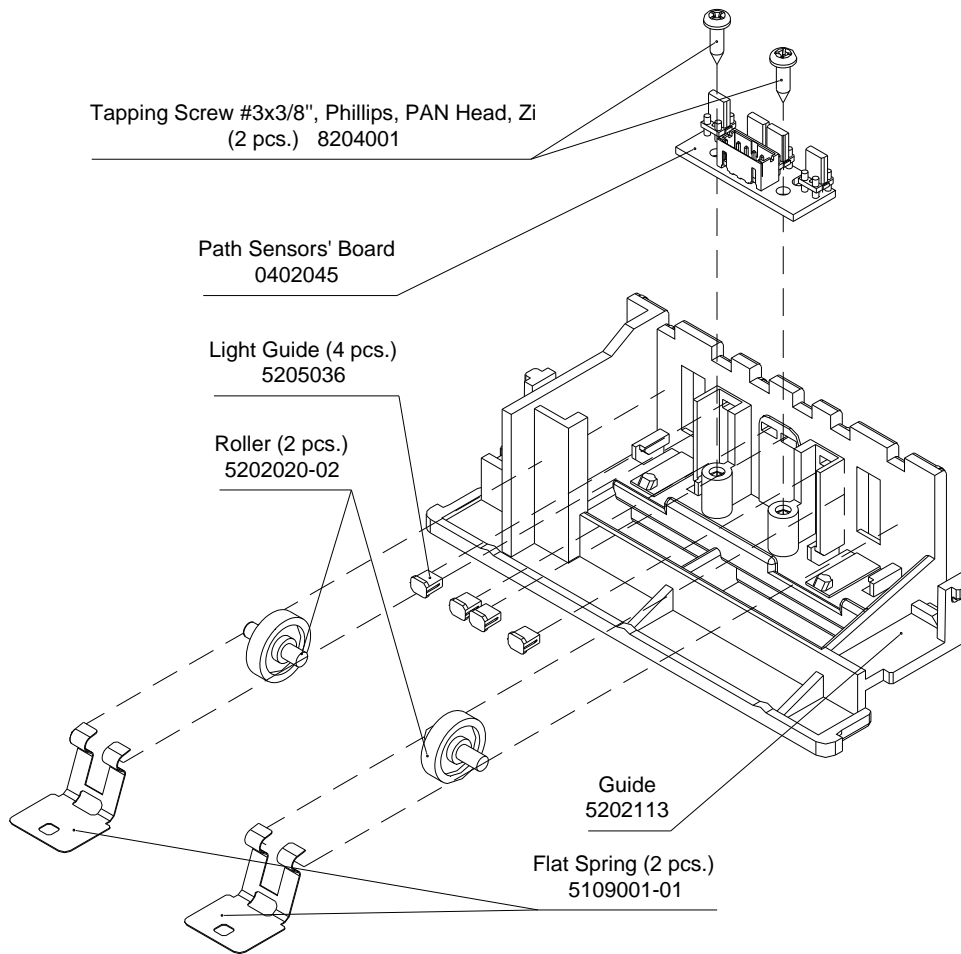
Part ID	Description	Qty.	
0200136	Outer Guide Assembly	1	LV01.24.100
0401030	CPU Board	1	LV01.51.000
5106008	Latch	1	FL04.04.002
5109012	Flat Spring	6	SM01.00.026
5204031	Roller	6	SM01.00.025
5308033	Shaft	4	SM01.00.024
5308033-01	Shaft	2	SM01.00.024-01
5308137	Shaft	1	LV01.00.009
5409025	Spring	1	FL04.01.005
8203960	Retaining Ring #D1500-2.3	2	8203960
8204001	Tapping Screw #3x3/8", Ph, Zn	4	8204001

Disassembly

Tools required:

- Flat screwdriver
- Philips screwdriver #1
- Tweezers

Guide (0200138) – Exploded view



Part ID	Description	Qty.	
0402045	Path Sensors Board	1	LV01.54.000
5109001-01	Spring	2	ST01.00.014-01
202113	Guide	1	LV01.00.005
5204020-02	Roller	2	FL04.06.002-02
5205036	Light Guide	4	VU02.02.002
8204001	Tapping Screw #3x3/8", Ph, Zi	2	8204001

Disassembly

Tools required:

- Philips screwdriver #1
- Tweezers

CONTACT:

2720 Steeles Avenue West, Unit 2-3
Concord, Ontario, Canada L4K 4S3

Phone: 1-905-303-8874

1-800-584-2633 Toll Free

Fax: 1-905-303-8875

1-800-593-2633 Toll Free

E-mail: support@cashcode.com

Website: support.cashcode.com