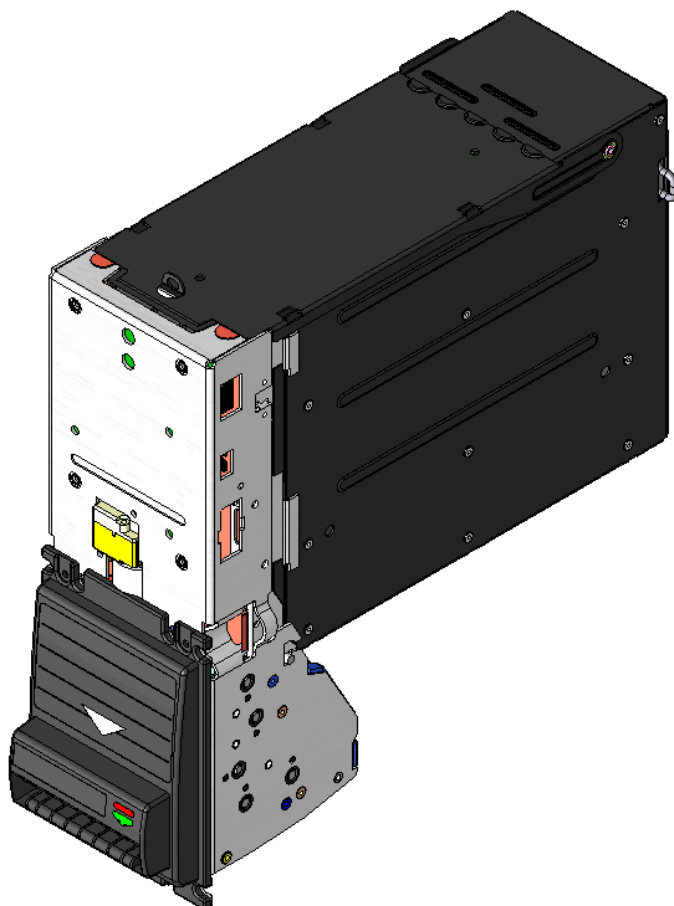
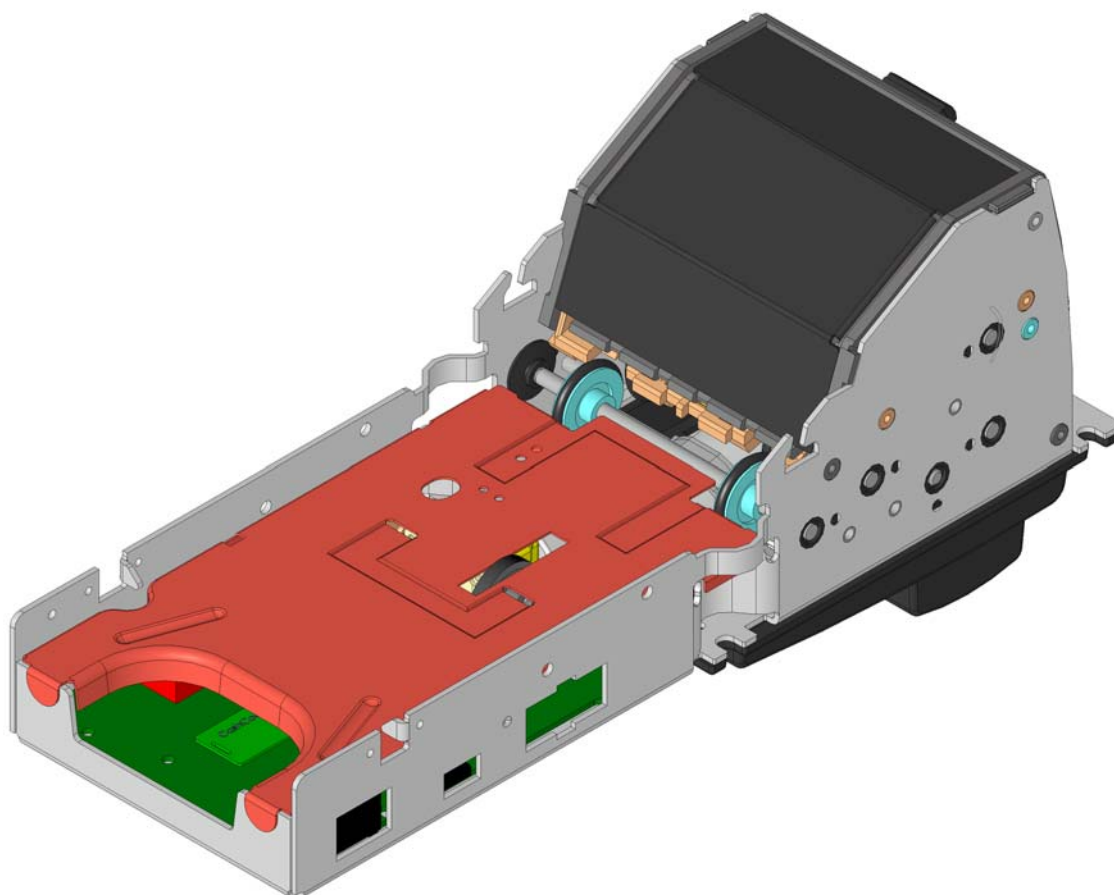


SM BACKLOAD BILL VALIDATOR

Operation and Service Manual

PART 2 TESTING AND REPAIR

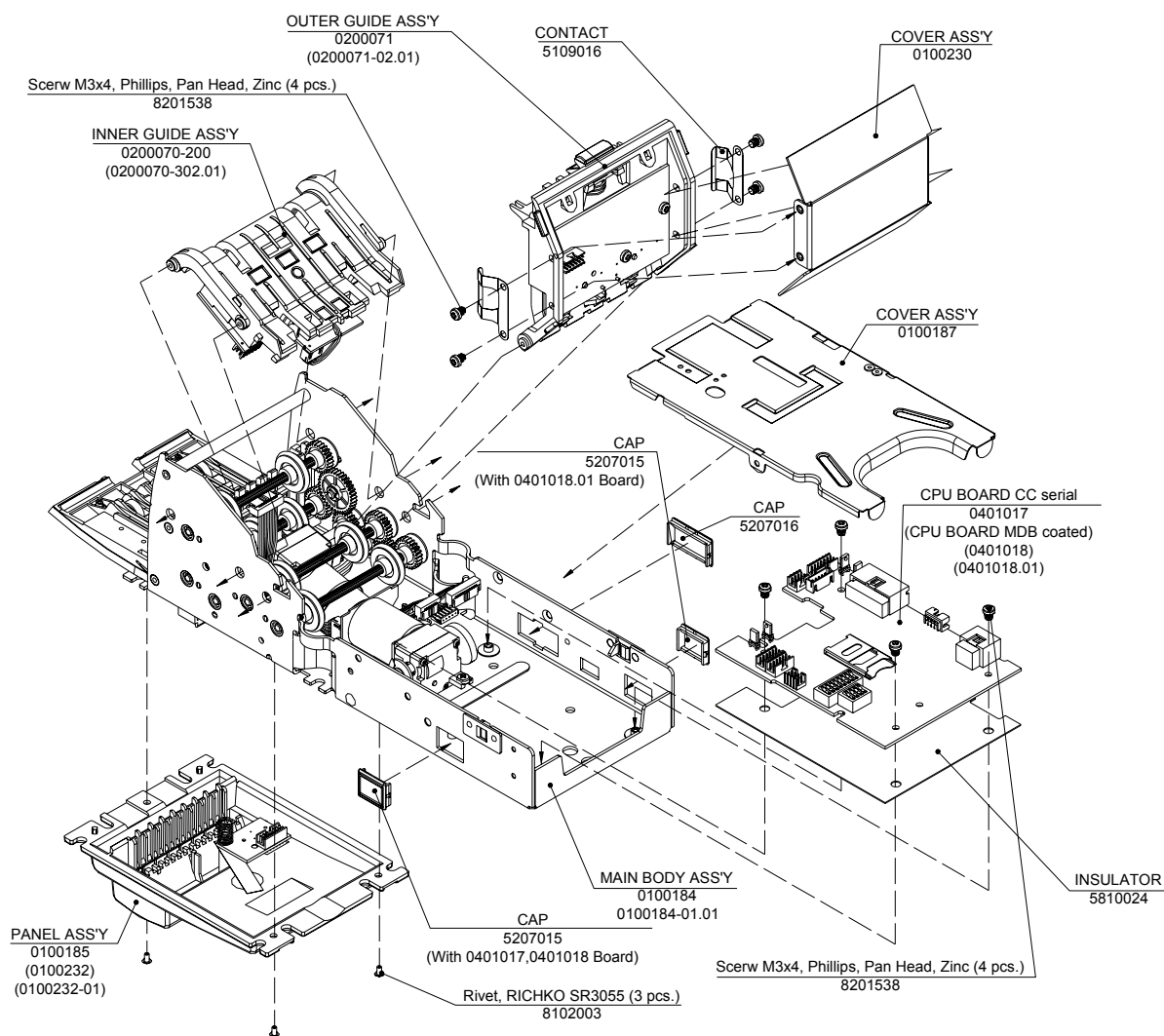


BILL VALIDATOR

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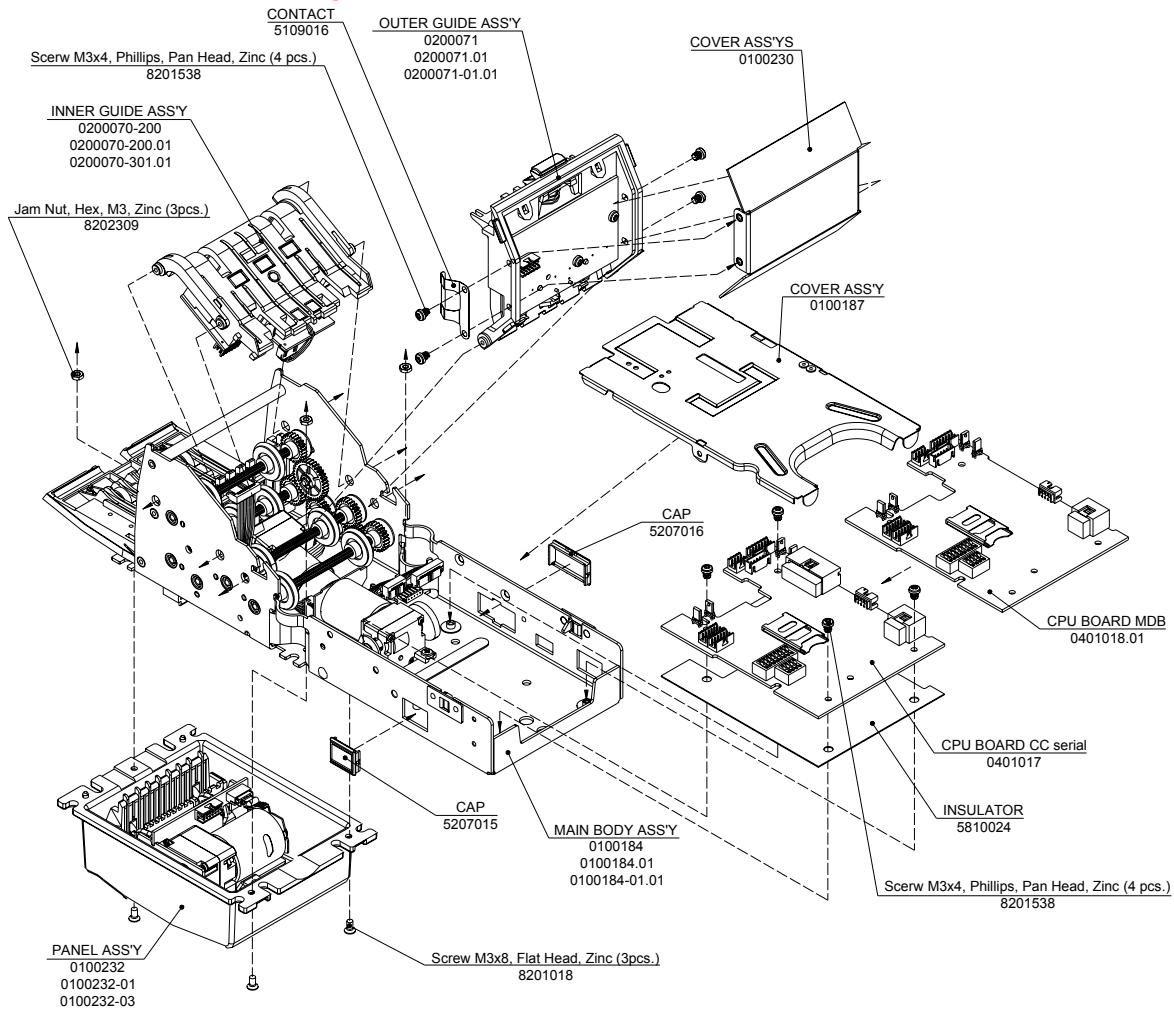
Exploded View of Bill Validator with Plastic Bezel



LIST OF SPARE PARTS AND ASSEMBLY FOR BILL VALIDATOR WITH PLASTIC BEZEL

Item	Part ID #	Part/Assembly Name	Quantity per assembly											
			SM-2005	SM-2006	SM-2007	SM-2008	SM-2013	SM-2017	SM-2018	SM-2019	SM-2020	SM-2021	SM-2033	SM-2034
1	0100184	MAIN BODY ASS'Y	1	1										
1	0100184.01	MAIN BODY ASS'Y						1	1			1		
1	0100184-01	MAIN BODY ASS'Y			1	1							1	
1	0100184-01.01	MAIN BODY ASS'Y								1	1			1
1	0100184G	MAIN BODY ASS'Y					1							
2	0100187	COVER ASS'Y	1	1	1	1	1	1	1	1	1	1	1	1
3	0100230	COVER ASS'Y	1	1	1	1	1	1	1	1	1	1	1	1
4	0100185	PANEL ASS'Y	1	1	1	1	1						1	
4	0100185.01	PANEL ASS'Y						1	1	1	1	1		1
5	0200070-200	INNER GUIDE ASS'Y	1				1							
5	0200070-200.01	INNER GUIDE ASS'Y						1				1		
5	0200070-202	INNER GUIDE ASS'Y		1										
5	0200070-202.01	INNER GUIDE ASS'Y							1					
5	0200070-300	INNER GUIDE ASS'Y			1									
5	0200070-300.01	INNER GUIDE ASS'Y								1				
5	0200070-301	INNER GUIDE ASS'Y											1	
5	0200070-301.01	INNER GUIDE ASS'Y												1
5	0200070-302	INNER GUIDE ASS'Y				1								
5	0200070-302.01	INNER GUIDE ASS'Y									1			
6	0200071	OUTER GUIDE ASS'Y	1		1		1							
6	0200071.01	OUTER GUIDE ASS'Y						1		1		1		
6	0200071-01	OUTER GUIDE ASS'Y											1	
6	0200071-01.01	OUTER GUIDE ASS'Y												1
6	0200071-02	OUTER GUIDE ASS'Y		1		1								
6	0200071-02.01	OUTER GUIDE ASS'Y							1		1			
7	0401017	CPU BOARD CC serial	1	1	1	1	1						1	
7	0401017.01	CPU BOARD CC serial										1		
7	0401018.01	CPU Board MDB coated						1	1	1	1			1
8	5109016	CONTACT	1	1	1	1	1	1	1	1	1	1	1	1
9	5207015	CAP	1	1	1	1	1	1	1	1	1	1	1	1
10	5207016	CAP						1	1	1	1			1
11	5810024	INSULATOR	1	1	1	1	1	1	1	1	1	1	1	1
12	8102003	Richco Snap Rivet SR-3055B RMS#21	3	3	3	3	3	3	3	3	3	3	3	3
13	8201538	Scerw M3x4, Phillips, Pan Head, Zinc	8	8	8	8	8	8	8	8	8	8	8	8

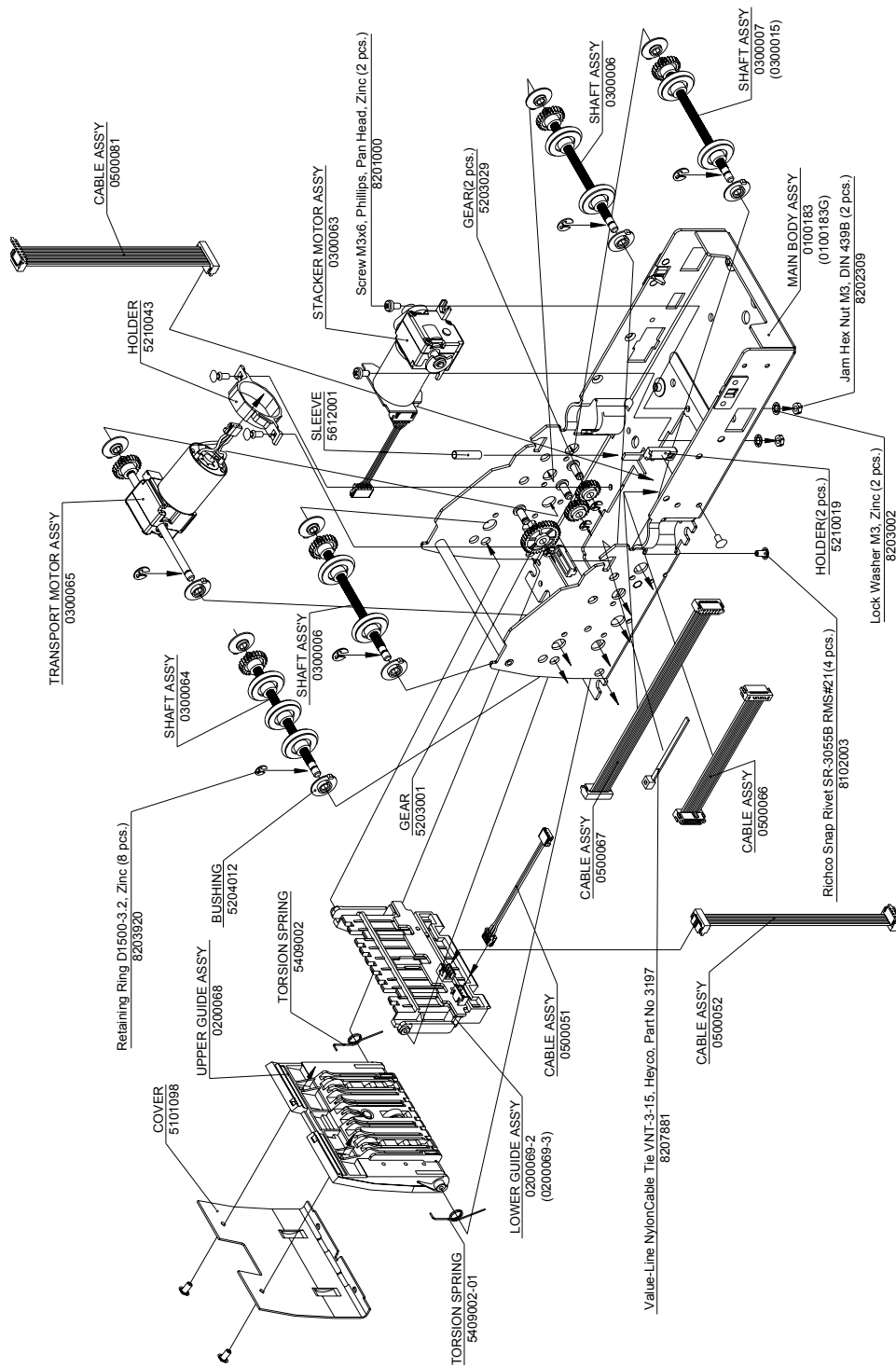
Exploded View of Bill Validator with Metal Bezel



LIST OF SPARE PARTS AND ASSEMBLY FOR BILL VALIDATOR WITH METAL BEZEL

Item	Part ID #	Part/Assembly Name	Quantity per assembly						
			SM-2105	SM-2117	SM-2134	SM-2155	SM-2205	SM-2217	SM-2234
1	0100184	MAIN BODY ASS'Y	1			1	1		
1	0100184.01	MAIN BODY ASS'Y		1				1	
1	0100184-01.01	MAIN BODY ASS'Y			1				1
2	0100187	COVER ASS'Y	1	1	1	1	1	1	1
3	0100230	COVER ASS'Y	1	1	1	1	1	1	1
4	0100232	PANEL ASS'Y					1	1	1
4	0100232-01	PANEL ASS'Y	1	1	1				
4	0100232-03	PANEL ASS'Y				1			
5	0200070-200	INNER GUIDE ASS'Y	1			1	1		
5	0200070-200.01	INNER GUIDE ASS'Y		1				1	
5	0200070-301.01	INNER GUIDE ASS'Y			1				1
6	0200071	OUTER GUIDE ASS'Y	1			1	1		
6	0200071.01	OUTER GUIDE ASS'Y		1				1	
6	0200071-01.01	OUTER GUIDE ASS'Y			1				1
7	0401017	CPU BOARD CC serial	1			1	1		
7	0401018.01	CPU BOARD MDB		1	1			1	1
8	5109016	CONTACT	1	1	1	1	1	1	1
9	5207015	CAP	1	1	1	1	1	1	1
10	5207016	CAP		1	1			1	1
11	5810024	INSULATOR	1	1	1	1	1	1	1
12	8202309	Jam Nut, Hex, M3, Zinc	3	3	3	3	3	3	3
13	8201538	Screw M3x4, Phillips, Pan Head, Zinc	8	8	8	8	8	8	8
14	8201018	Screw M3x8, Flat Head, Zinc	3	3	3	3	3	3	3

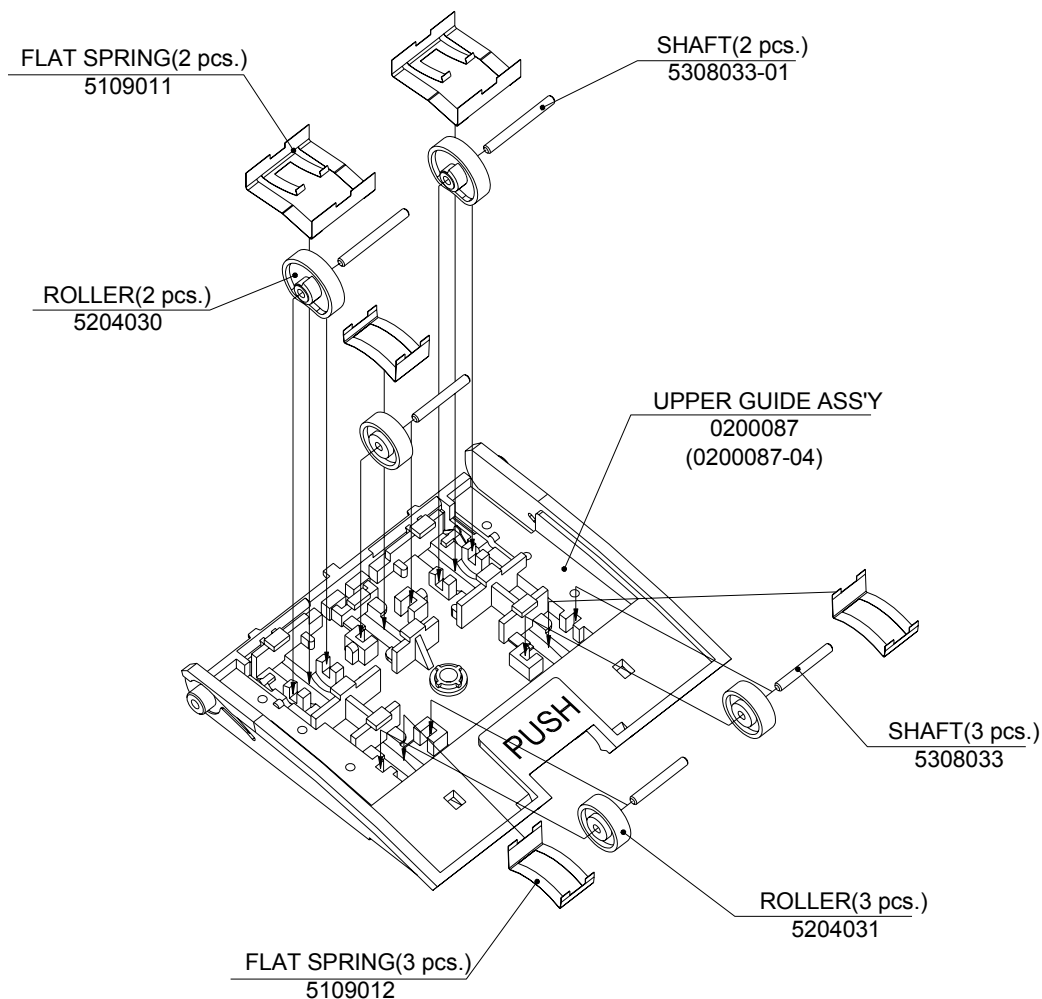
Exploded View of Main body Assembly (010084, 010084G, 010084-01.01, 010084-01G).



LIST OF SPARE PARTS AND ASSEMBLY FOR MAIN BODY ASS'Y (010084, 010084G, 010084-01, 010084-01G).

Item	Part ID #	Part/Assembly Name	Quantity per assembly			
			0100184	0100184G	0100184-01	0100184-01G
1	0500051	CABLE ASS'Y	1	1	1	1
2	0500052	CABLE ASS'Y	1	1	1	1
3	0300063	STACKER MOTOR ASS'Y	1	1	1	1
4	0300064	SHAFT ASS'Y	1	1	1	1
5	0100183	MAIN BODY ASS'Y	1		1	
5	0100183G	MAIN BODY ASS'Y		1		1
6	0300065	TRANSPORT MOTOR ASS'Y	1	1	1	1
7	0200068	UPPER GUIDE ASS'Y	1	1	1	1
8	0200069-2	LOWER GUIDE ASS'Y	1	1		
8	0200069-3	LOWER GUIDE ASS'Y			1	1
9	0500067	CABLE ASS'Y	1	1	1	1
10	0500066	CABLE ASS'Y	1	1	1	1
11	0500081	CABLE ASS'Y	1	1	1	1
12	0300006	SHAFT ASS'Y	2	2	2	2
13	0300007	SHAFT ASS'Y	1	1		
13	0300015	SHAFT ASS'Y			1	1
14	5204012	BUSHING	10	10	10	10
15	5101098	COVER	1	1	1	1
16	5210019	HOLDER	2	2	2	2
17	5203029	GEAR	2	2	2	2
18	5203001	GEAR	1	1	1	1
19	5409002	TORSION SPRING	1	1	1	1
20	5409002-01	TORSION SPRING	1	1	1	1
21	5210043	HOLDER	1	1	1	1
22	5612001	SLEEVE	1	1	1	1
23	8202309	Jam Hex Nut M3, DIN 439B	1	1	1	1
24	8203920	Retaining Ring D1500-3.2, Zinc	8	8	8	8
25	8102003	Richco Snap Rivet SR-3055B RMS#21	6	6	6	6
26	8201000	Screw M3x6, Phillips, Pan Head, Zinc	2	2	2	2
27	8203002	Lock Washer M3, Zinc	2	2	2	2
29	8207881	Value-Line Nylon Cable Tie VNT-3-15, Heyco, Part No 3197	1	1	1	1

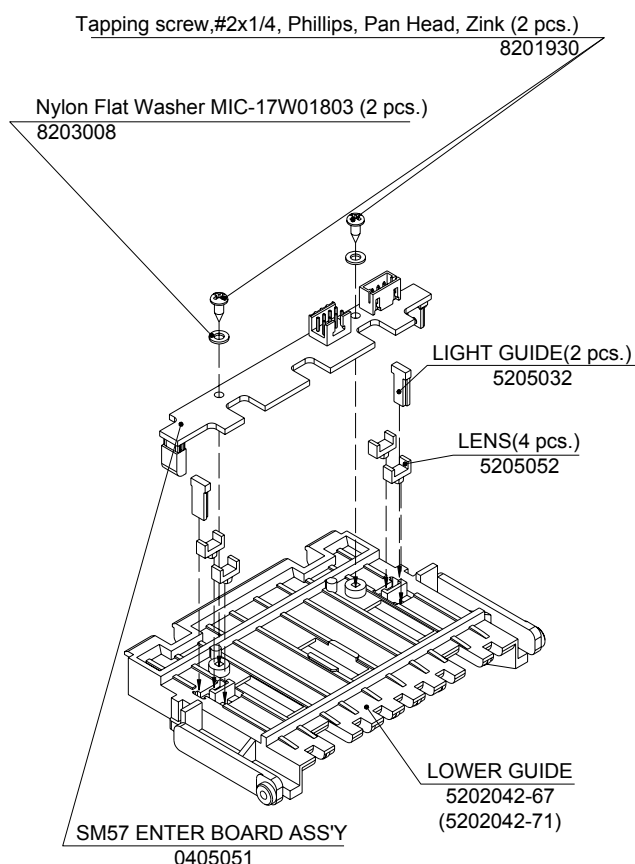
Exploded View of Upper Guide Assembly (0200068).



LIST OF SPARE PARTS AND ASSEMBLY FOR UPPER GUIDE ASS'Y (0200068).

Item	Part ID #	Part/Assembly Name
1	0200087	UPPER GUIDE ASS'Y
2	5204030	ROLLER
3	5109011	FLAT SPRING
4	5308033	SHAFT
5	5308033-01	SHAFT
6	5204031	ROLLER
7	5109012	FLAT SPRING

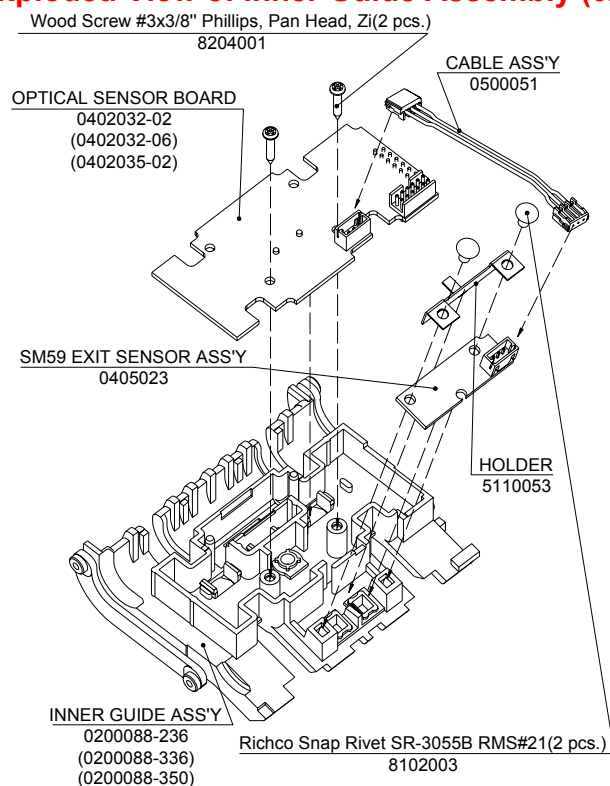
Exploded View of Lower Guide Assembly (0200069).



LIST OF SPARE PARTS AND ASSEMBLY FOR LOWER GUIDE ASS'Y (0200069).

Item	Part ID #	Part/Assembly Name	Quantity per assembly	
			0200069-2	0200069-3
1	0405051	SM57 ENTER BOARD ASS'Y	1	1
2	5202042-67	LOWER GUIDE	1	
2	5202042-71	LOWER GUIDE		1
3	5205052	LENS	4	4
4	5205032	LIGHT GUIDE	2	2
5	8201930	Tapping screw, #2x1/4, Phillips, Pan Head, Zink	2	2
6	8203008	Nylon Flat Washer MIC-17W01803	2	2

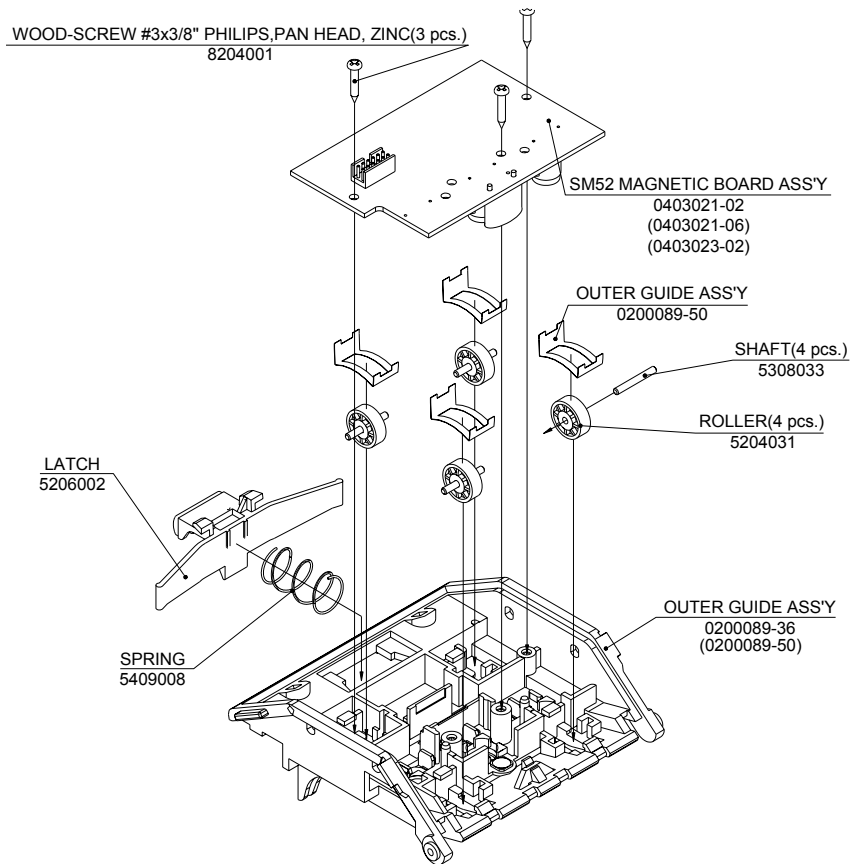
Exploded View of Inner Guide Assembly (0200070).



LIST OF SPARE PARTS AND ASSEMBLY FOR INNER GUIDE ASS'Y (0200070).

Item	Part ID #	Part/Assembly Name	Quantity per assembly				
			0200070-200	0200070-202	0200070-300	0200070-301	0200070-302
1	0500051	CABLE ASS'Y	1	1	1	1	1
2	0402032-02	OPTICAL SENSOR BOARD	1		1		
2	0402032-06	OPTICAL SENSOR BOARD		1			1
2	0402035-02	OPTICAL SENSOR BOARD				1	
3	0405023	SM59 EXIT SENSOR ASS'Y	1	1	1	1	1
4	0200088-236	INNER GUIDE ASS'Y	1	1			
4	0200088-336	INNER GUIDE ASS'Y			1		1
4	0200088-350	INNER GUIDE ASS'Y				1	
5	5110053	HOLDER	1	1	1	1	1
6	8102003	Richco Snap Rivet SR-3055B RMS#21	2	2	2	2	2
7	8204001	Wood Screw #3x3/8" Phillips, Pan Head, Zi	2	2	2	2	2

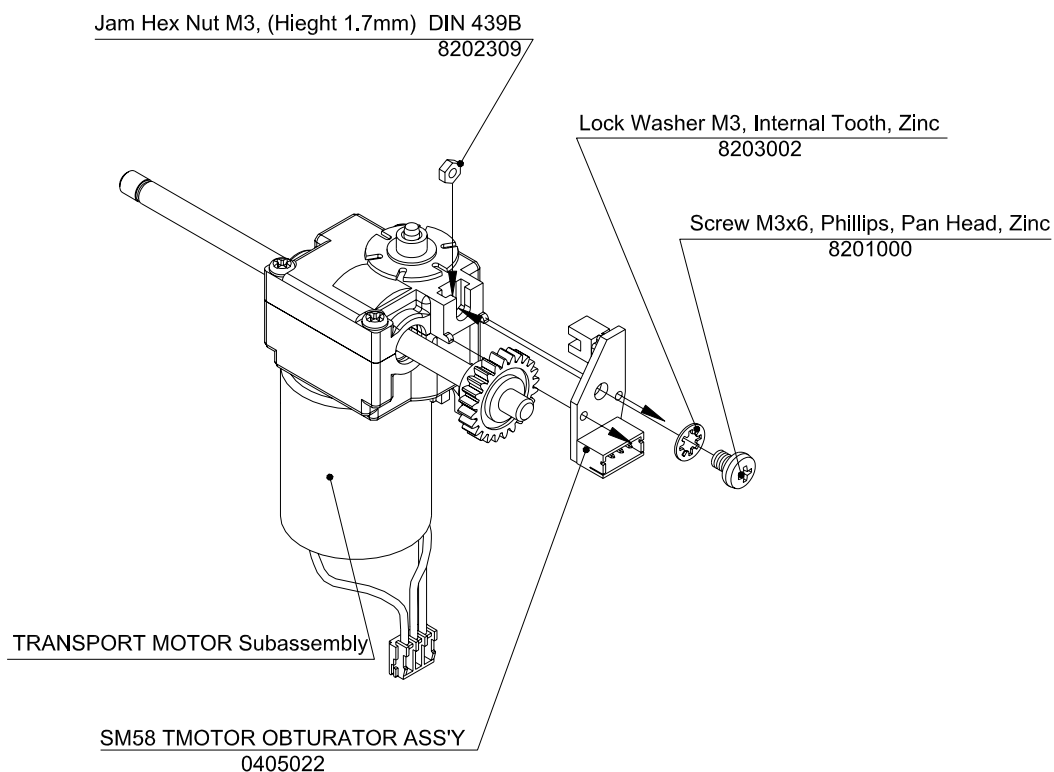
Exploded View of Outer Guide Assembly (0200071).



LIST OF SPARE PARTS AND ASSEMBLY FOR OUTER GUIDE ASS'Y (0200071).

Item	Part ID #	Part/Assembly Name	Quantity per assembly		
			0200071	0200071-01	0200071-02
1	0403021-02	SM52 MAGNETIC BOARD ASS'Y	1		
1	0403021-06	SM52 MAGNETIC BOARD ASS'Y			1
1	0403023-02	SM52 MAGNETIC BOARD ASS'Y		1	
2	0200089-36	OUTER GUIDE ASS'Y	1		1
5	0200089-50	OUTER GUIDE ASS'Y		1	
3	5308033	SHAFT	4	4	4
4	5204031	ROLLER	4	4	4
5	5109012	FLAT SPRING	4	4	4
6	5206002	LATCH	1	1	1
7	5409008	SPRING	1	1	1
8	8204001	WOOD-SCREW #3x3/8" PHILIPS,PAN HEAD, ZINC	3	3	3

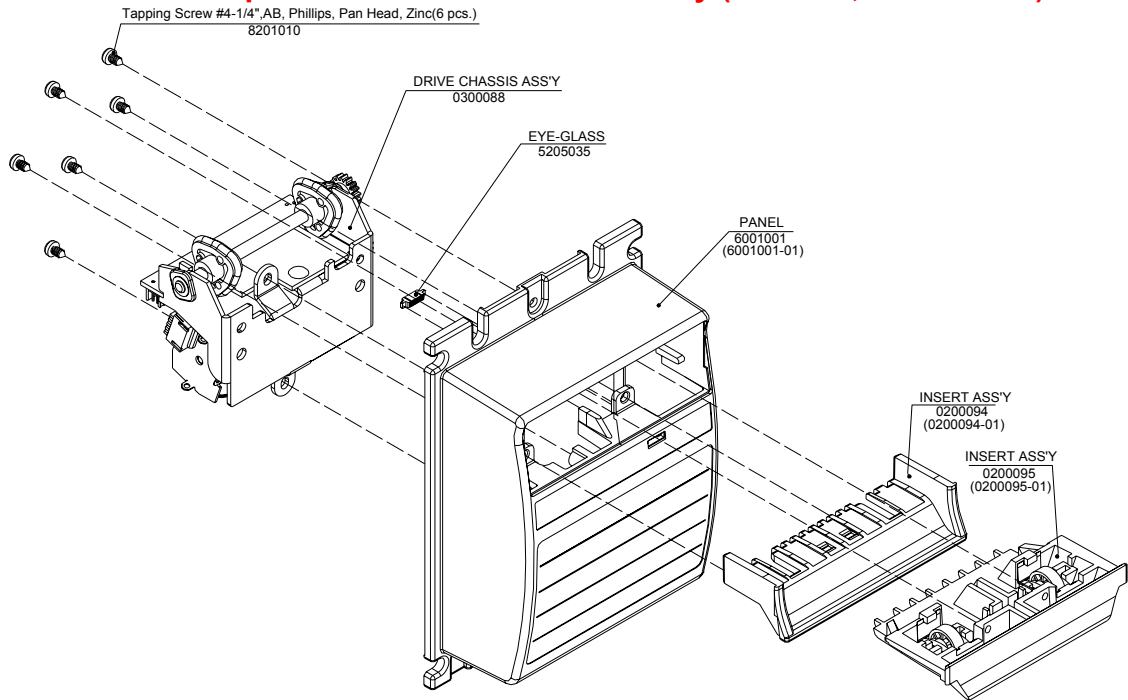
Exploded View of Transport Motor Assembly (0300065).



LIST OF SPARE PARTS FOR TRANSPORT MOTOR ASS'Y ASS'Y (0300065).

Item	Part ID #	Part/Assembly Name	Quantity
1	0300066	DRIVE ASS'Y	1
2	0500054	CABLE ASS'Y	1
3	0405022	SM58 TMOTOR OBTURATOR ASS'Y	1
4	5612004	SLEEVE, Alpha PVC Tubing Nom. Inside Dia 2.41(0.095"), Part No PVC-105-11, L=8mm.	2
5	5612009	SLEEVE, Alpha PVC Tubing Nom. Inside Dia 3.00(0.118"), Part No PVC-105-9, L=8mm.	1
6	5110004	CONTACT	1
7	8202309	Jam Hex Nut M3, (Hieght 1.7mm) DIN 439B	1
8	8201000	Screw M3x6, Phillips, Pan Head, Zinc	1
9	8203002	Lock Washer M3, Internal Tooth, Zinc	1

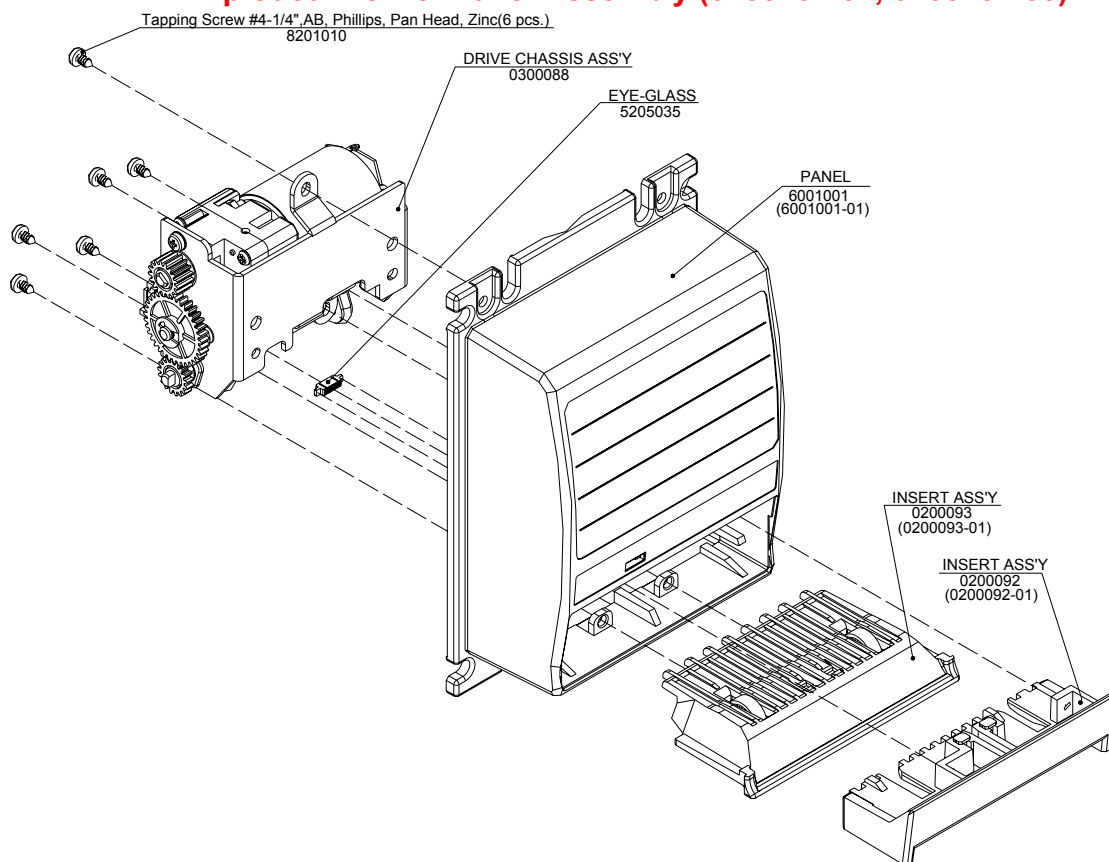
Exploded View of Panel Assembly (0100232, 0100232-02).



LIST OF SPARE PARTS FOR PANEL ASS'Y (0100232, 0100232-02).

Item	Part ID #	Part/Assembly Name	Quantity per assembly	
			0100232	0100232-02
1	0200094	INSERT ASS'Y	1	
1	0200094-01	INSERT ASS'Y		1
2	0200095	INSERT ASS'Y	1	
2	0200095-01	INSERT ASS'Y		1
3	0300088	DRIVE CHASSIS ASS'Y	1	1
4	5205035	EYE-GLASS	1	1
5	6001001	PANEL	1	
5	6001001-01	PANEL		1
6	8201010	Tapping Screw #4-1/4",AB, Phillips, Pan Head, Zinc	6	6

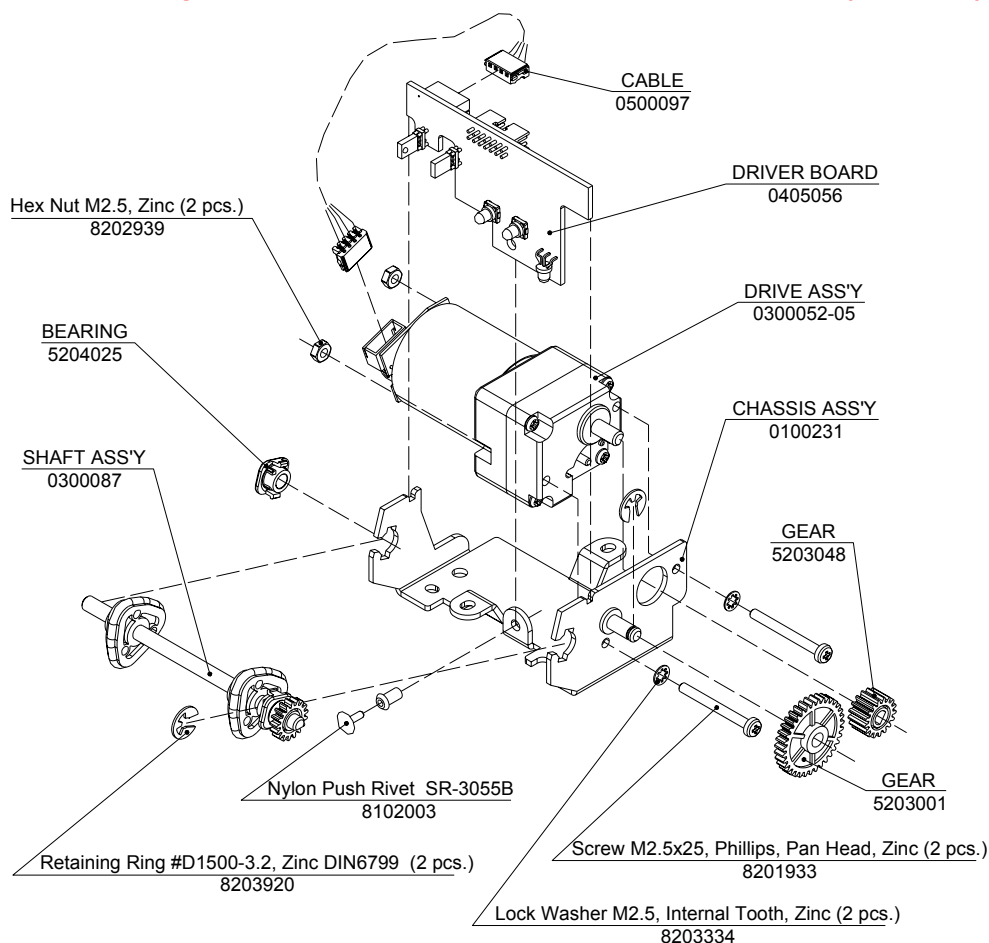
Exploded View of Panel Assembly (0100232-01, 0100232-03).



LIST OF SPARE PARTS FOR PANEL ASS'Y (0100232-01, 0100232-03).

Item	Part ID #	Part/Assembly Name	Quantity per assembly	
			0100232-01	0100232-03
1	0200092	INSERT ASS'Y	1	
1	0200092-01	INSERT ASS'Y		1
2	0200093	INSERT ASS'Y	1	
2	0200093-01	INSERT ASS'Y		1
3	0300088	DRIVE CHASSIS ASS'Y	1	1
4	5205035	EYE-GLASS	1	1
5	6001001	PANEL	1	
5	6001001-01	PANEL		1
6	8201010	Tapping Screw #4-1/4", AB, Phillips, Pan Head, Zinc	6	6

Exploded View of DRIVE CHASSIS ASSEMBLY (0300088).



LIST OF SPARE PARTS FOR DRIVE CHASSIS ASS'Y (0300088).

Item	Part ID #	Part/Assembly Name	Qty
1	0300052-05	DRIVE ASS'Y	1
2	0300087	SHAFT ASS'Y	1
3	0100231	CHASSIS ASS'Y	1
4	0405056	DRIVER BOARD	1
5	0500097	CABLE	1
6	5203001	GEAR	1
7	5204025	BEARING	1
8	5203048	GEAR	1
9	8202939	Hex Nut M2.5, Zinc	2
10	8203334	Lock Washer M2.5, Internal Tooth, Zinc	1
11	8203920	Retaining Ring #D1500-3.2, Zinc DIN6799	1
12	8102003	Nylon Push Rivet SR-3055B	1
13	8201933	Screw M2.5x25, Phillips, Pan Head, Zinc	2

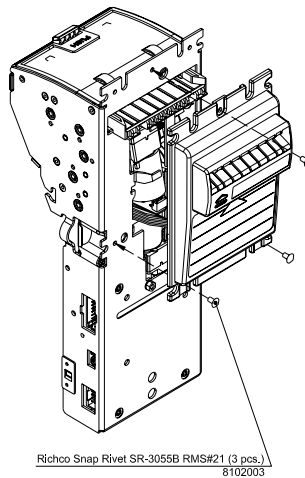
DISASSEMBLY OF BILL VALIDATOR AND SUBASSEMBLIES

Tools required:

- Electro - screwdriver
- Applicator Tools for DIN 6799 N 877-325
- Tweezers

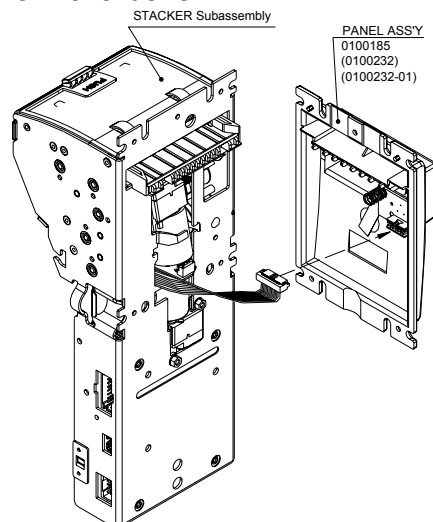
Step 1

- Remove bezel, by following instructions bellow
- Pull out 3 nylon push rivets
- Draw aside the bezel



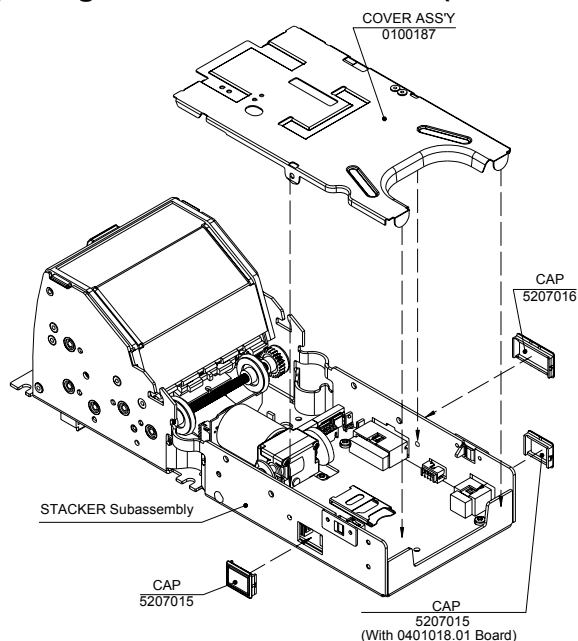
Step 2

- Disconnect the cable from the bezel



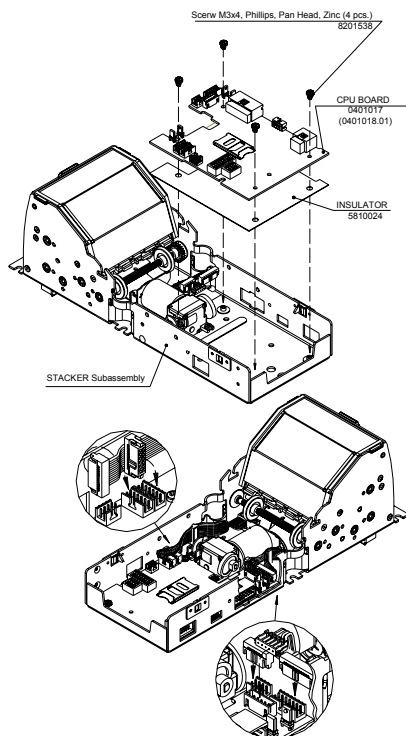
Step 3

- Remove cover #0100187
- Remove 2 caps by opening latch with screwdriver (for SM02,2005 only #5207015)

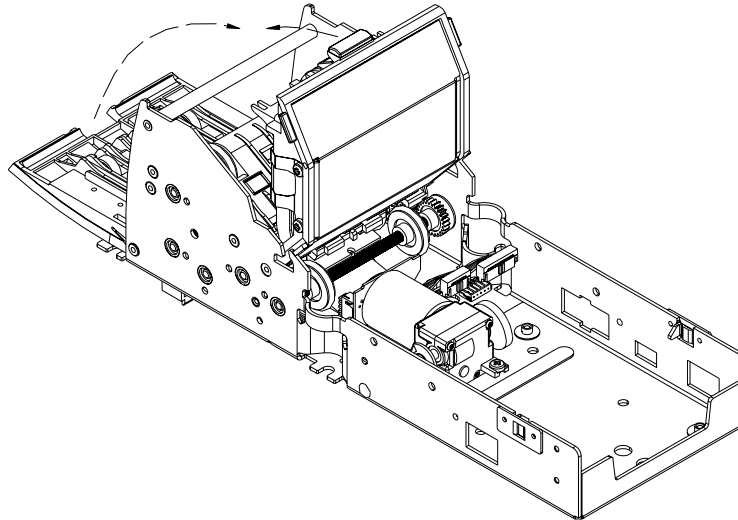


Step 4

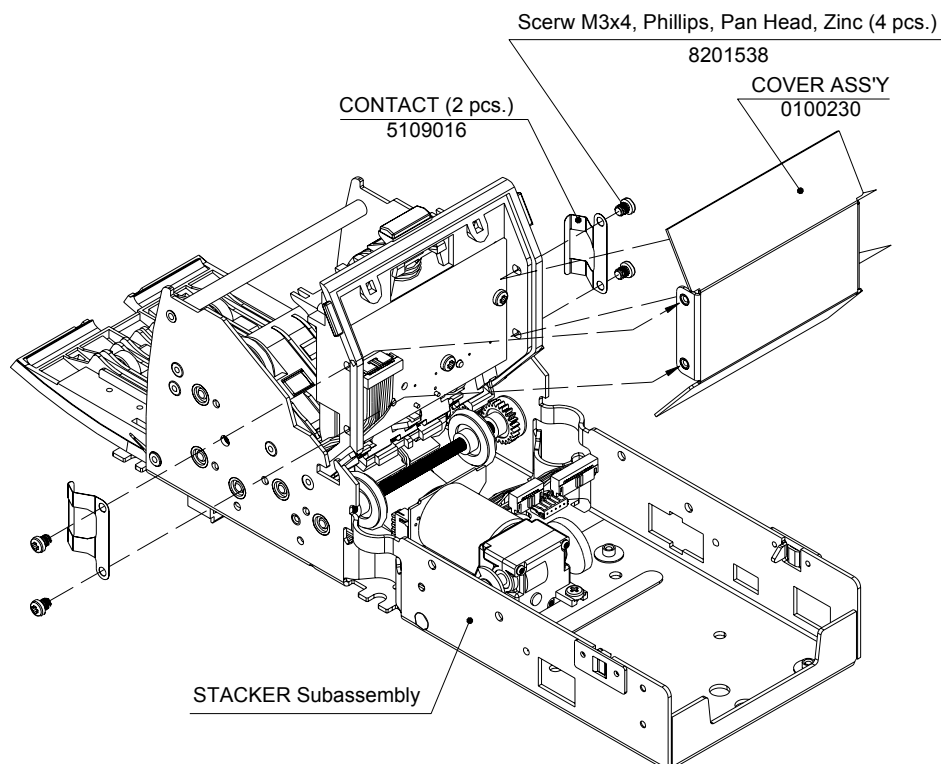
- Remove M3x4 screws
- Disconnect the cables from CPU Board
- Remove CPU Board



Step 5
-Open outer guide

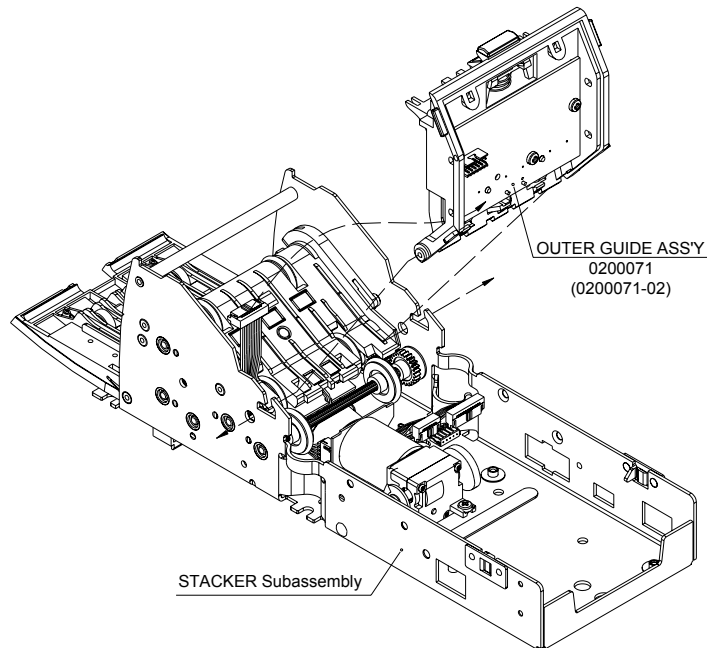


Step 6
- Remove 4 M3x4 screw
-Remove Cover and 2 Contacts



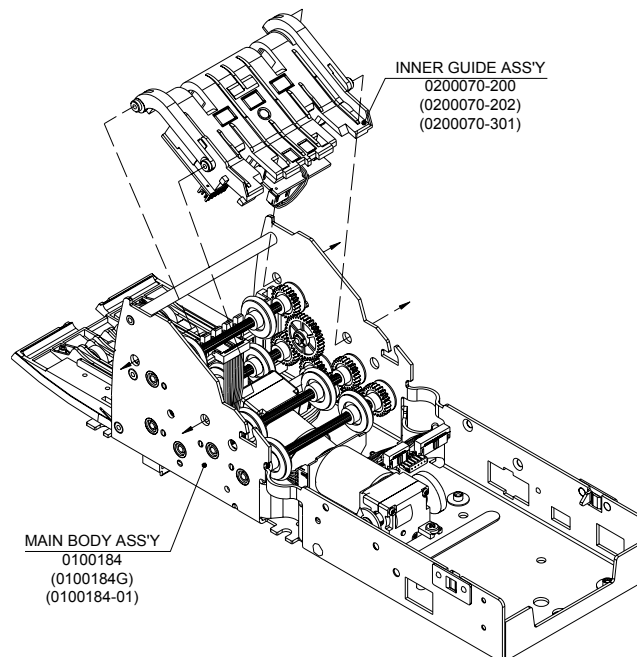
Step7

- Press on the outer Guide near the Guide axis
- Remove outer Guide
- Disconnect the cables from outer Guide



Step 8.

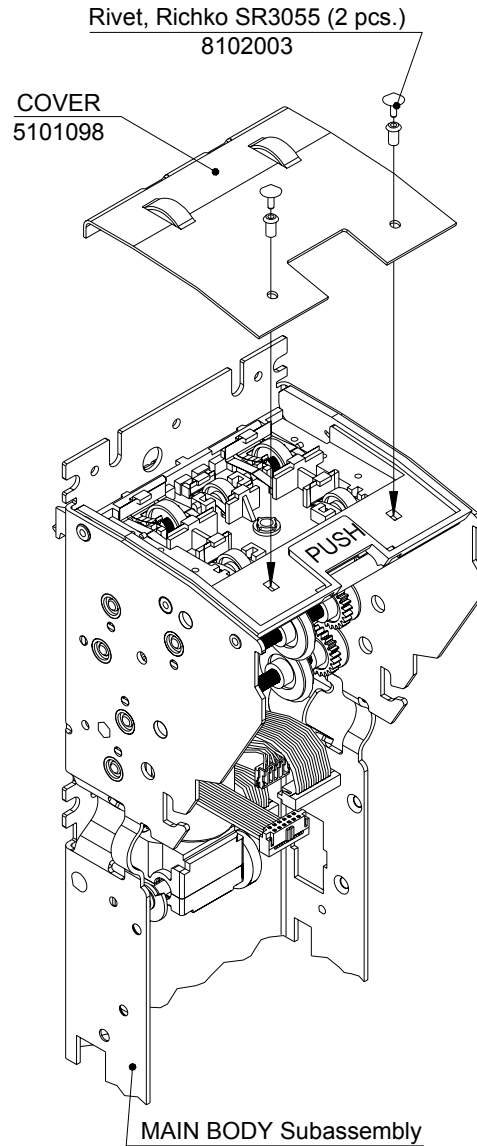
- Press on the inner Guide near the Guide axis
- Remove inner guide
- Disconnect the cables from Inner guide



Step 9.

-Pull out 2 nylon rivets

-Turn inside out and remove Cover

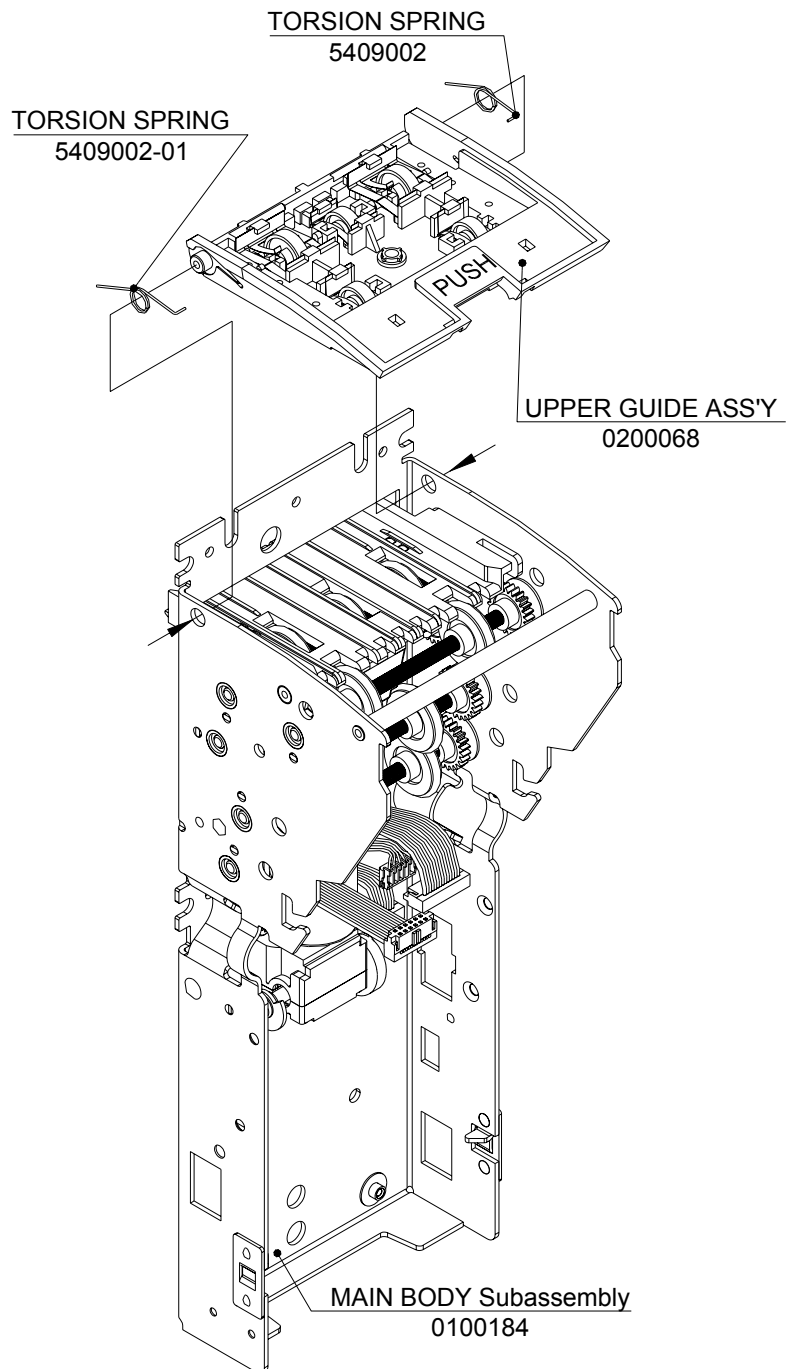


Step 10.

-Press on the upper Guide near the Guide axis

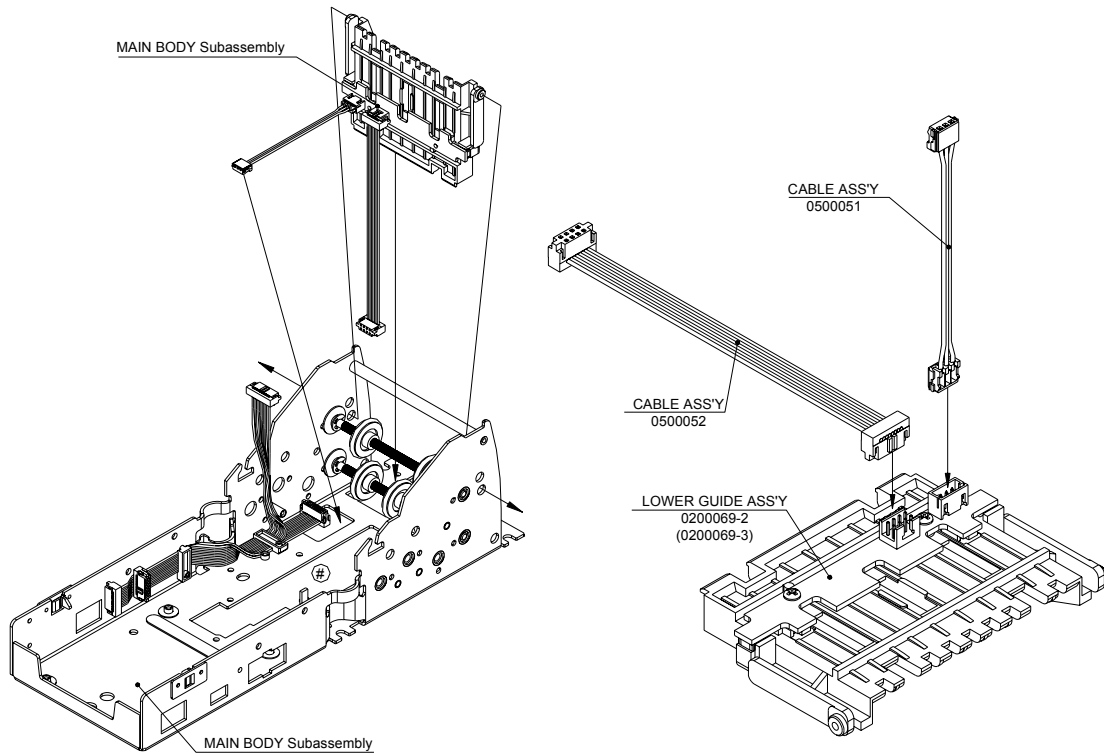
-Remove the upper Guide (with 2 Springs)

Pay attention! Restraint Assembly and spring are not secured to the Guide.



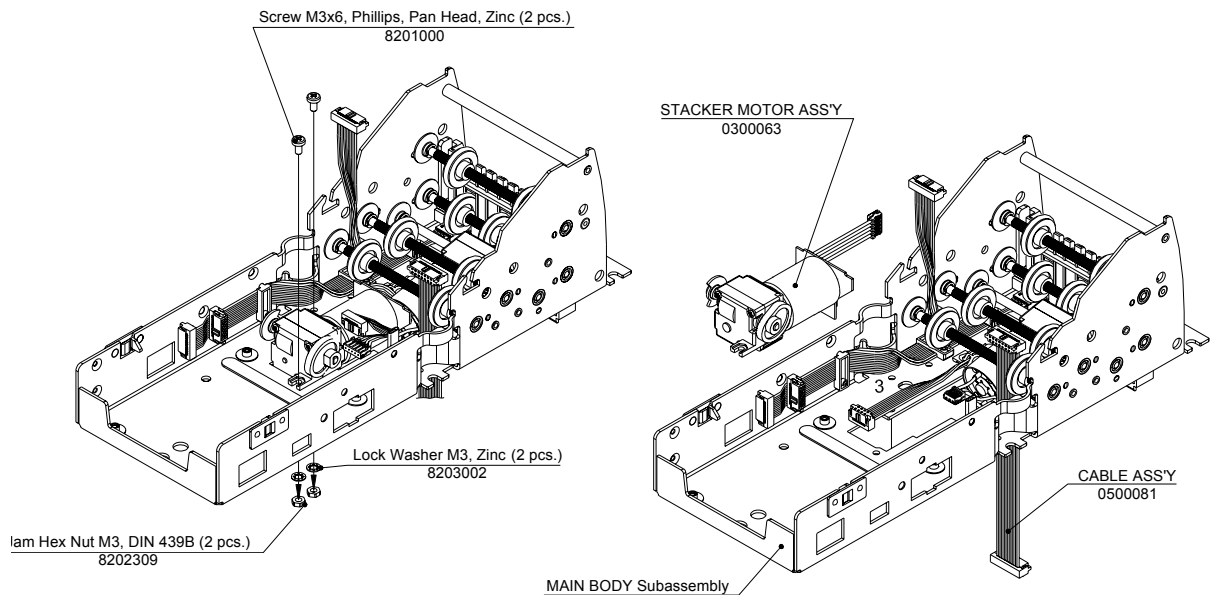
Step 11.

- Press on the lower guide near the guide axis
- Remove the lower guide
- Remove two cables



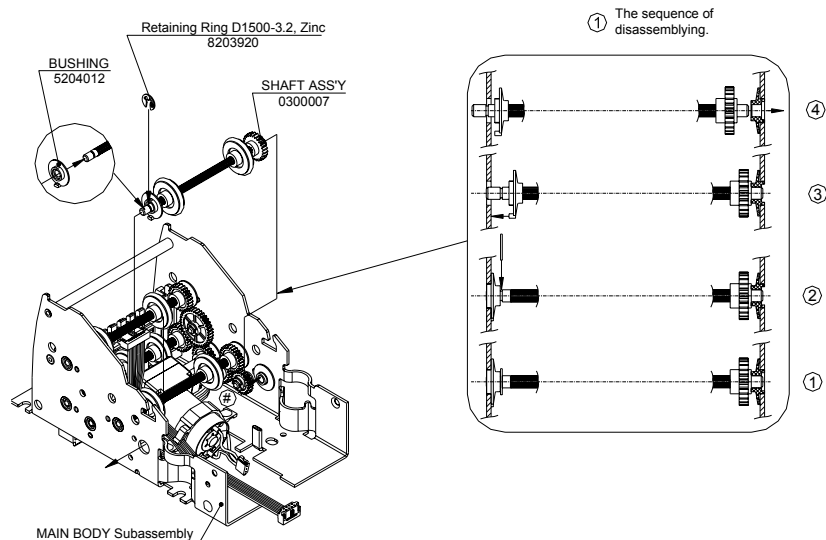
Step 12.

- Remove Stacker Motor Assembly, by following instructions bellow:
- Remove two screw M3x6, two M3 hex nut and two lock washer M3
- Disconnect Transport Motor cable from Stacker Motor cable
- Remove Stacker Motor Assembly
- Remove cable 0500081
- Disconnect cable 0500053 from motor

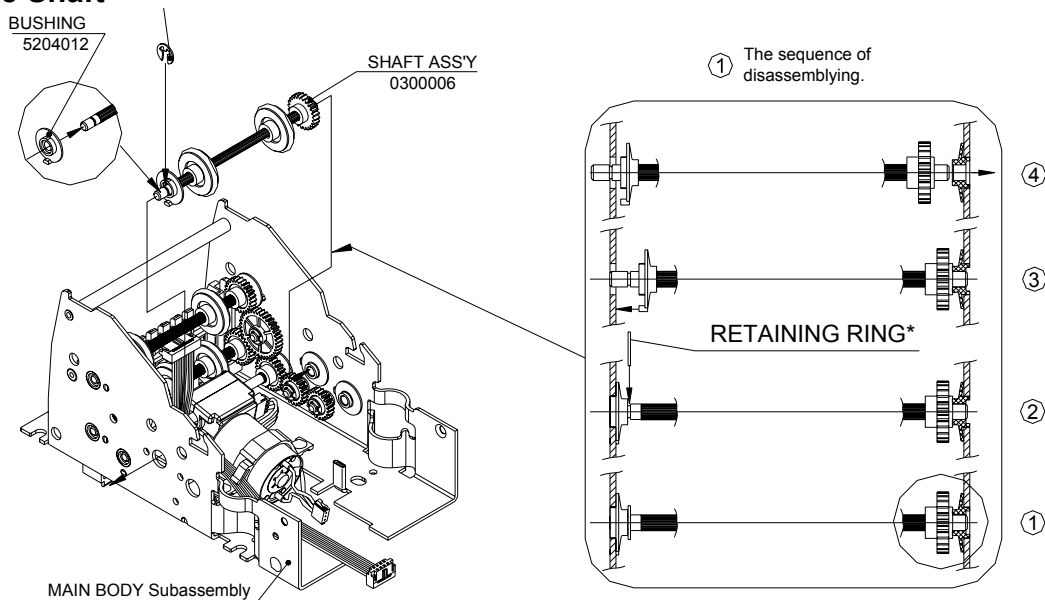


Step 13.

- Remove Shaft assembly, by following instructions bellow:
- Remove retaining ring
- Move Bushing
- Remove Shaft

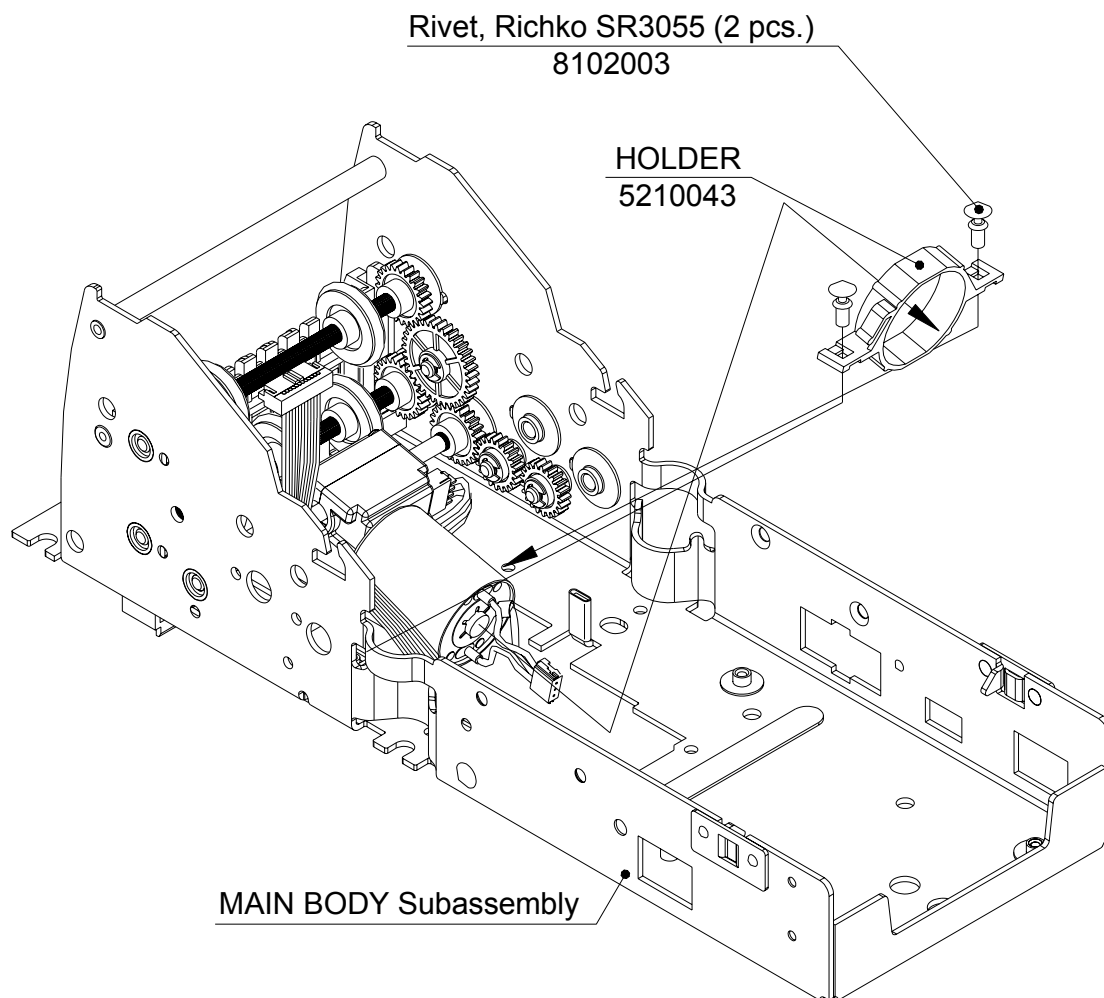

Step 14.

- Remove Shaft assembly, by following instructions bellow:
- Remove retaining ring
- Move Bushing
- Remove Shaft



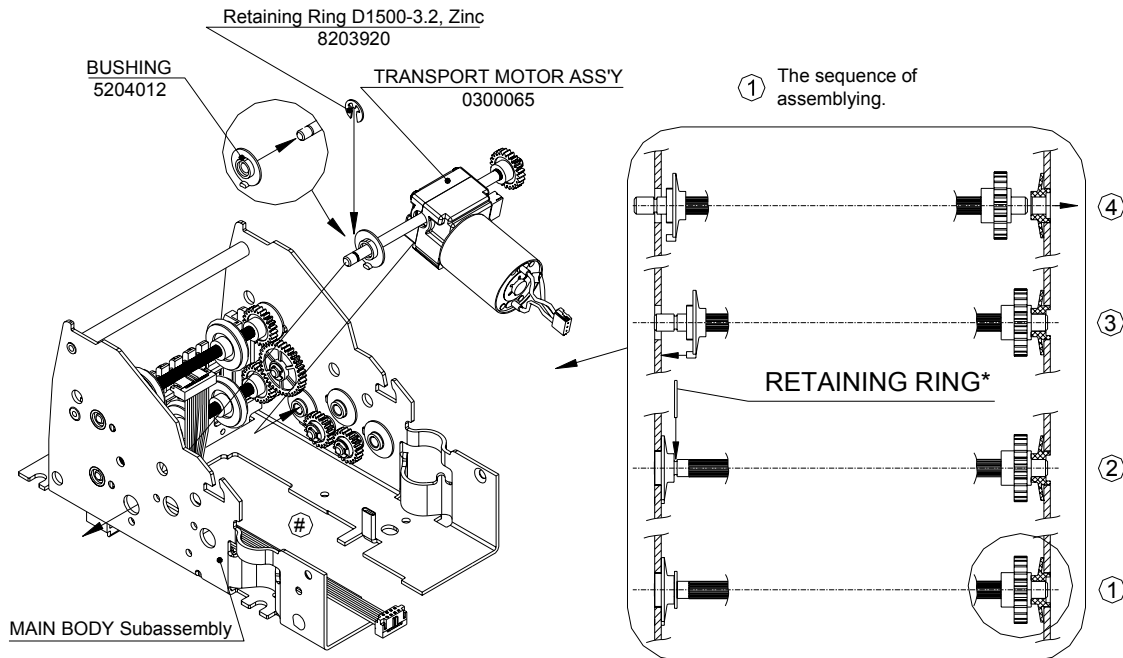
Step 15.

- Pull out 2 nylon push rivets
- Remove Holder

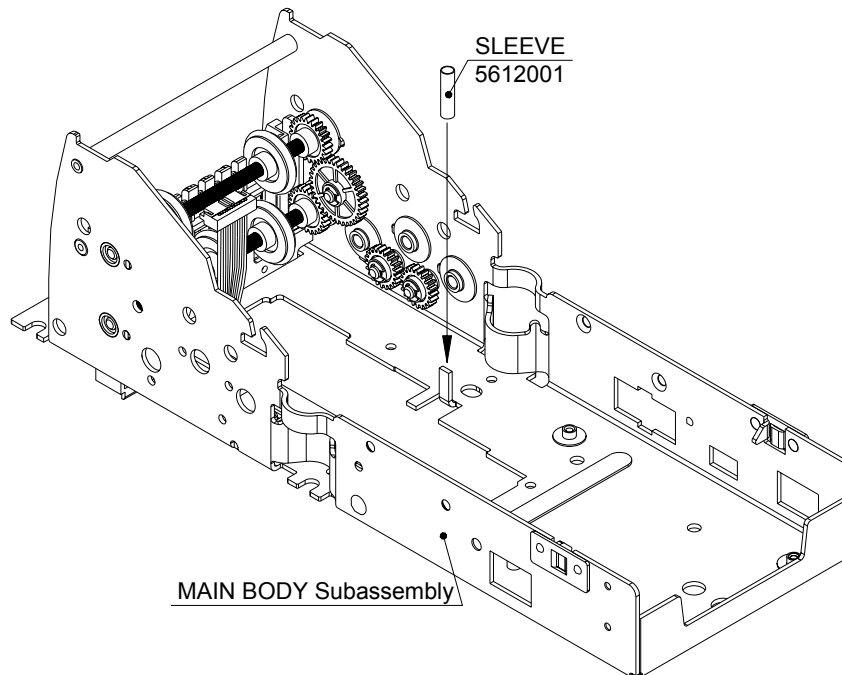


Step 16.

- Remove retaining ring
- Move Bushing
- Remove Transport Motor with Holder

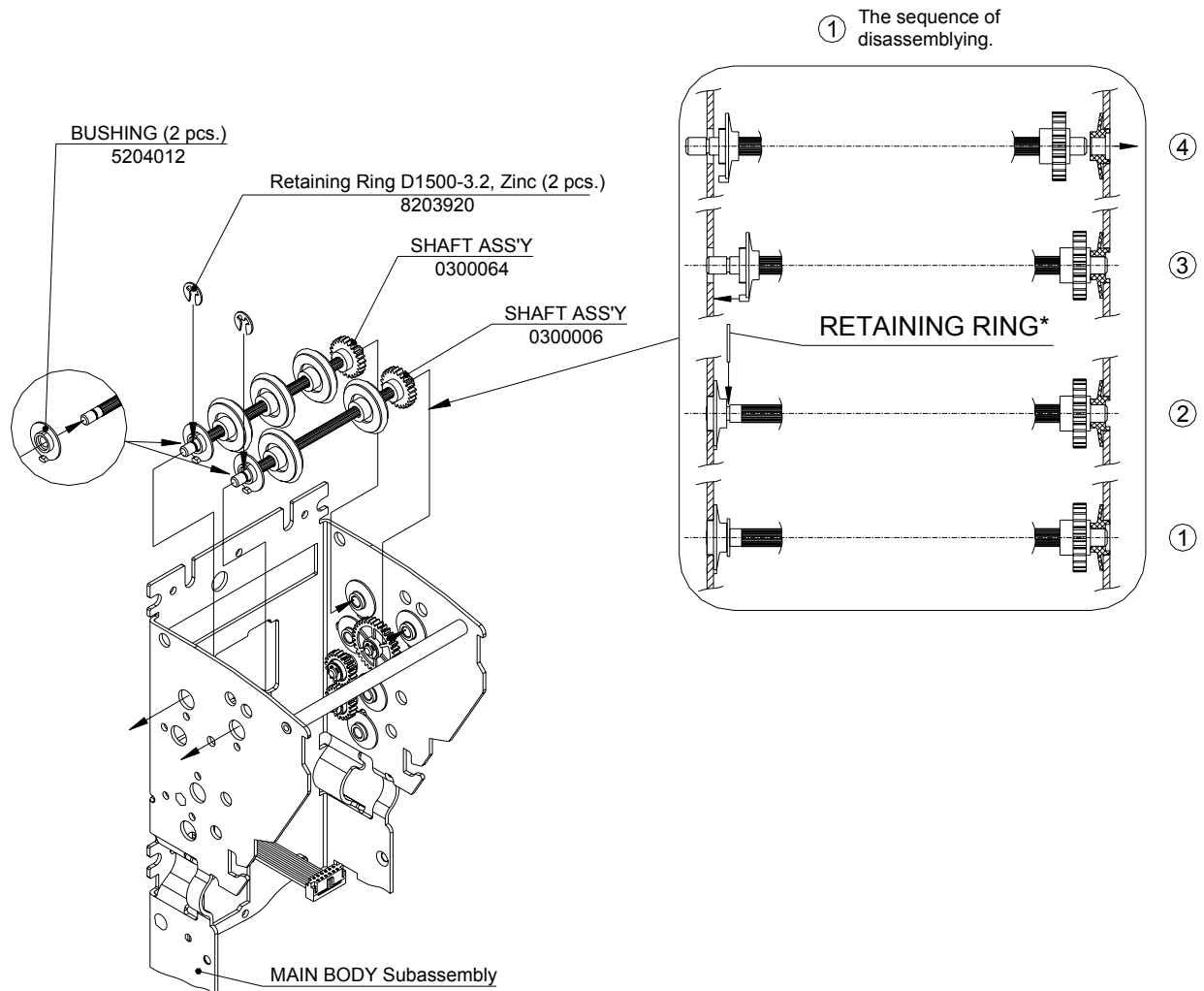

Step 17.

- Remove Sleeve



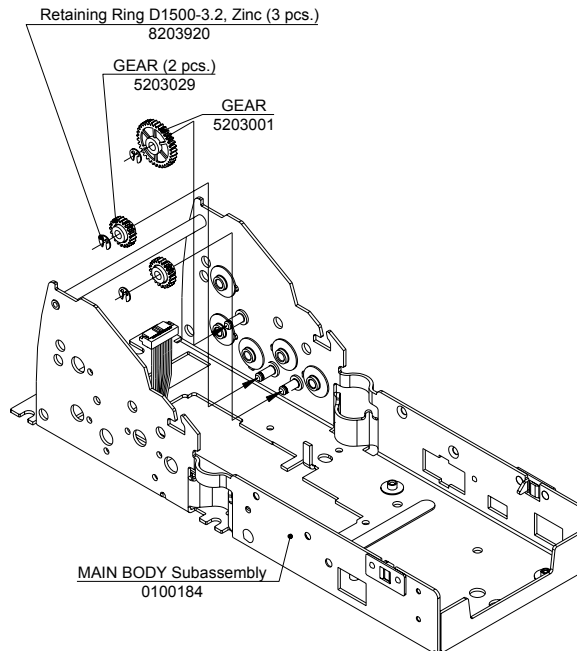
Step 18.

- Remove two Shaft assemblies, by following instructions bellow:
- Remove two retaining rings
- Move Bushings
- Remove Shafts



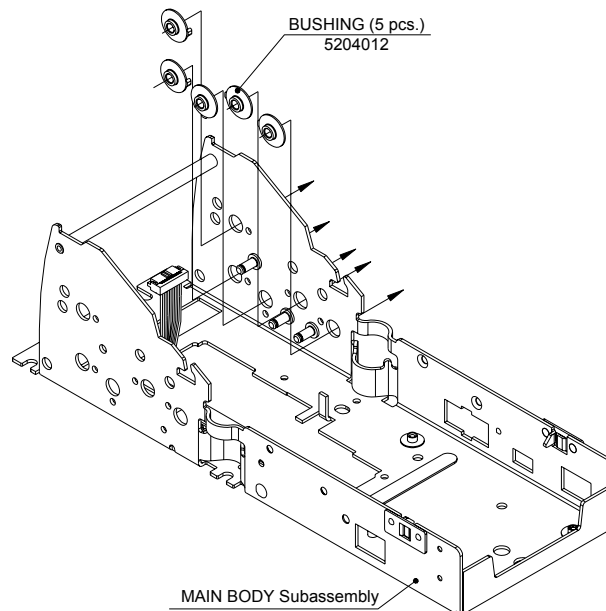
Step 19.

- Remove three Gears, by following instructions bellow:
- Remove three retaining rings
- Remove Gears



Step 20.

- Remove five Bushings.



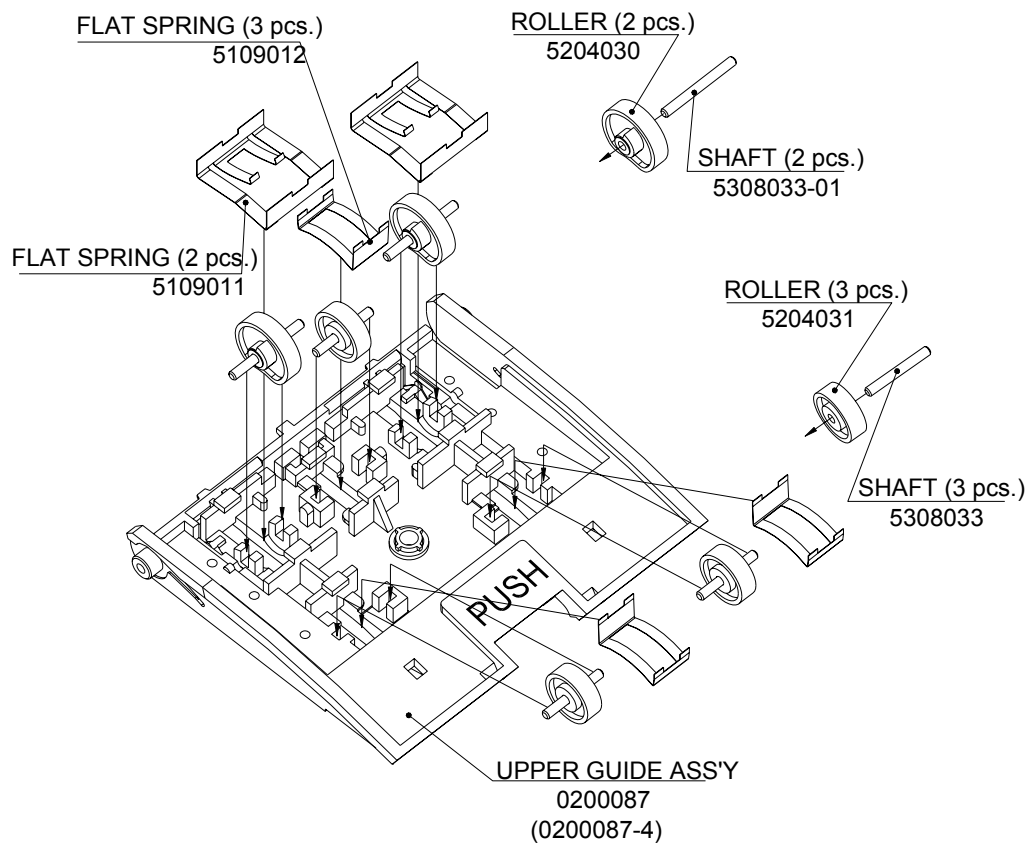
DISASSEMBLY OF APPER GUIDE #0200068

Tools required:

- Tweezers

- Remove five flat Spring

- Remove five Rollers with Shafts



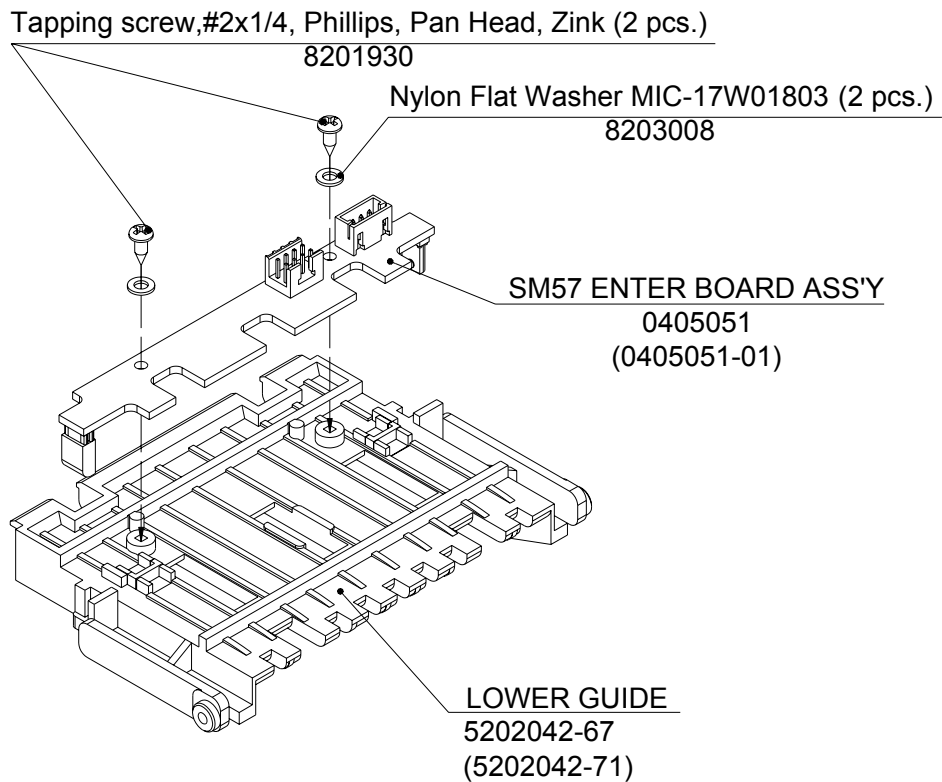
DISASSEMBLY OF LOWER GUIDE #0200069

Tools required:

- Electroscrowdriver

-Remove two screw

-Remove Enter Board



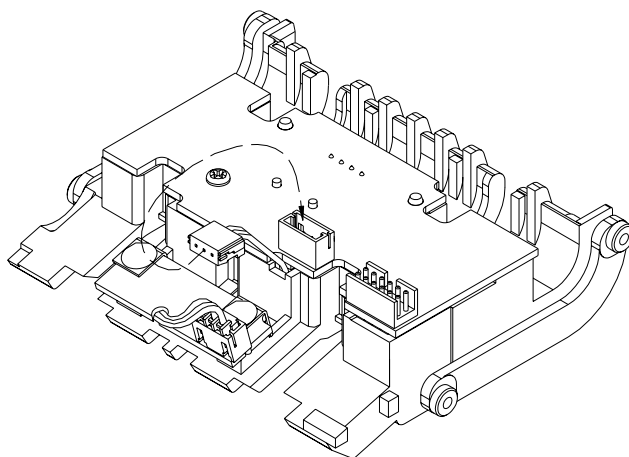
DISASSEMBLY OF INNER GUIDE #0200070

Tools required:

- Electroscrowdriver

Step 1.

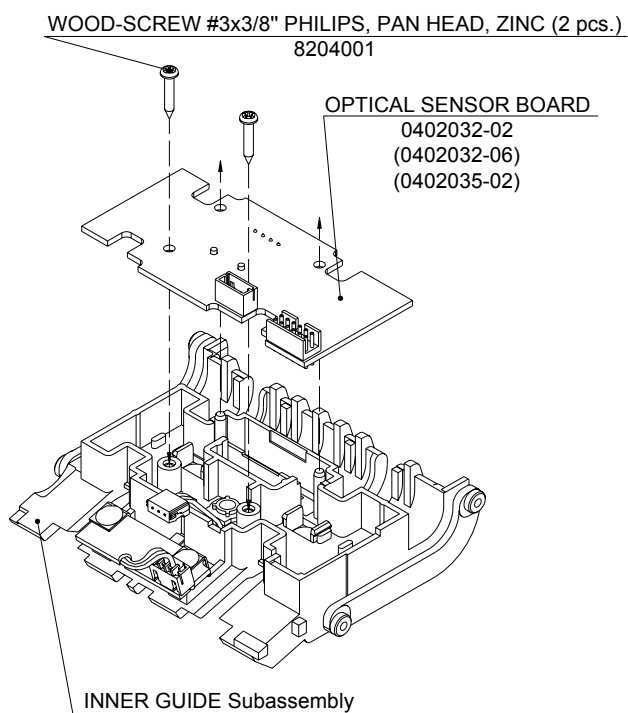
Disconnect cable from optical board



Step 2.

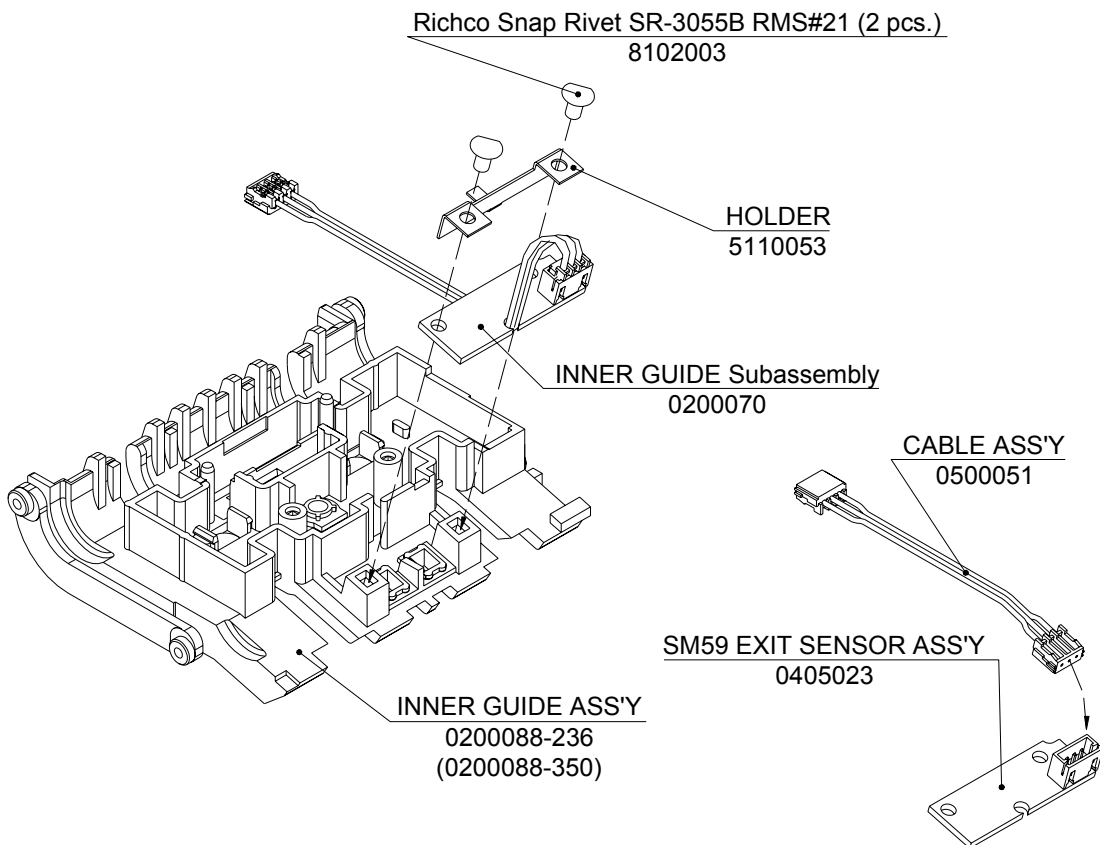
—Remove two screw

—Remove optic board



Step 3.

- Remove two rivets
- Remove holder
- Remove exit sensor board with cable
- Remove cable



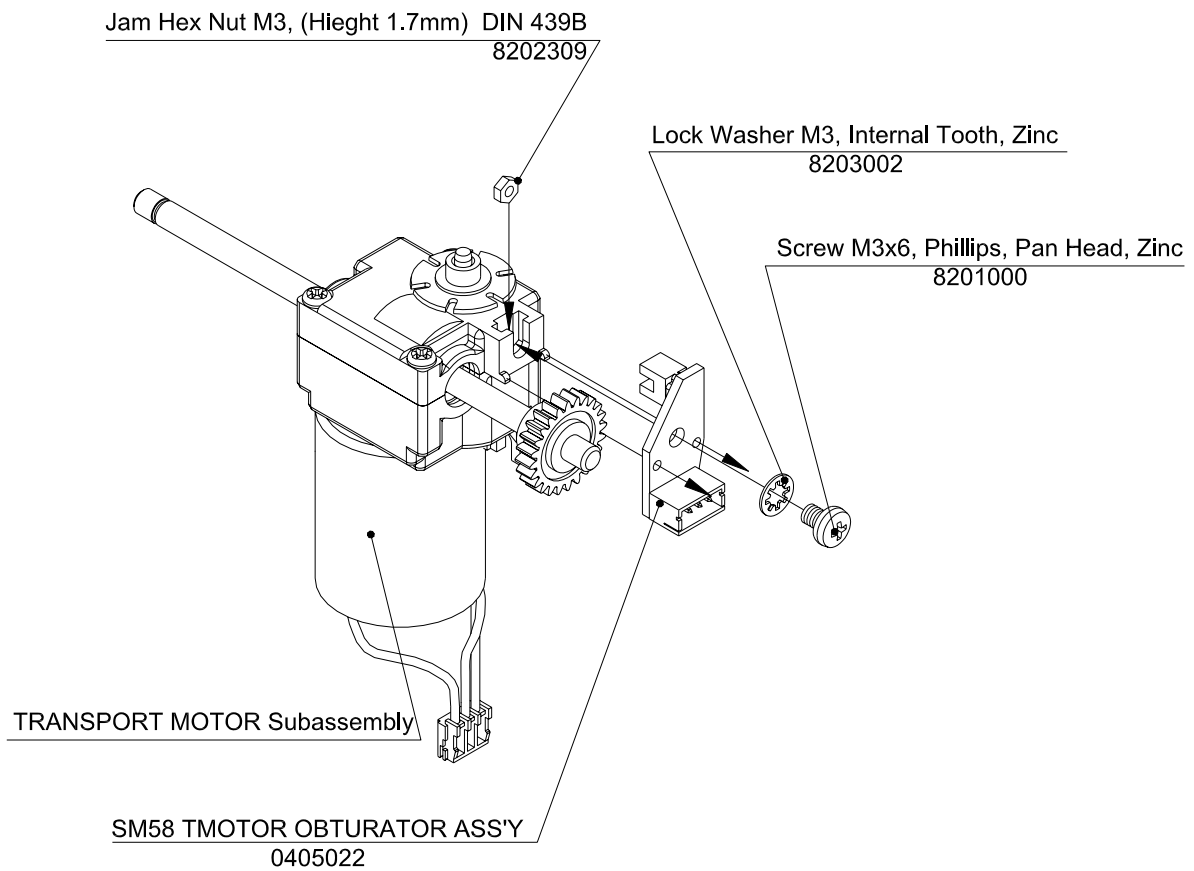
DISASSEMBLY OF TRANSPORT MOTOR

Tools required:

- Electroscrowdriver

-Remove Screw M3x6, Washer and Nut

-Remove transport motor obturator Board



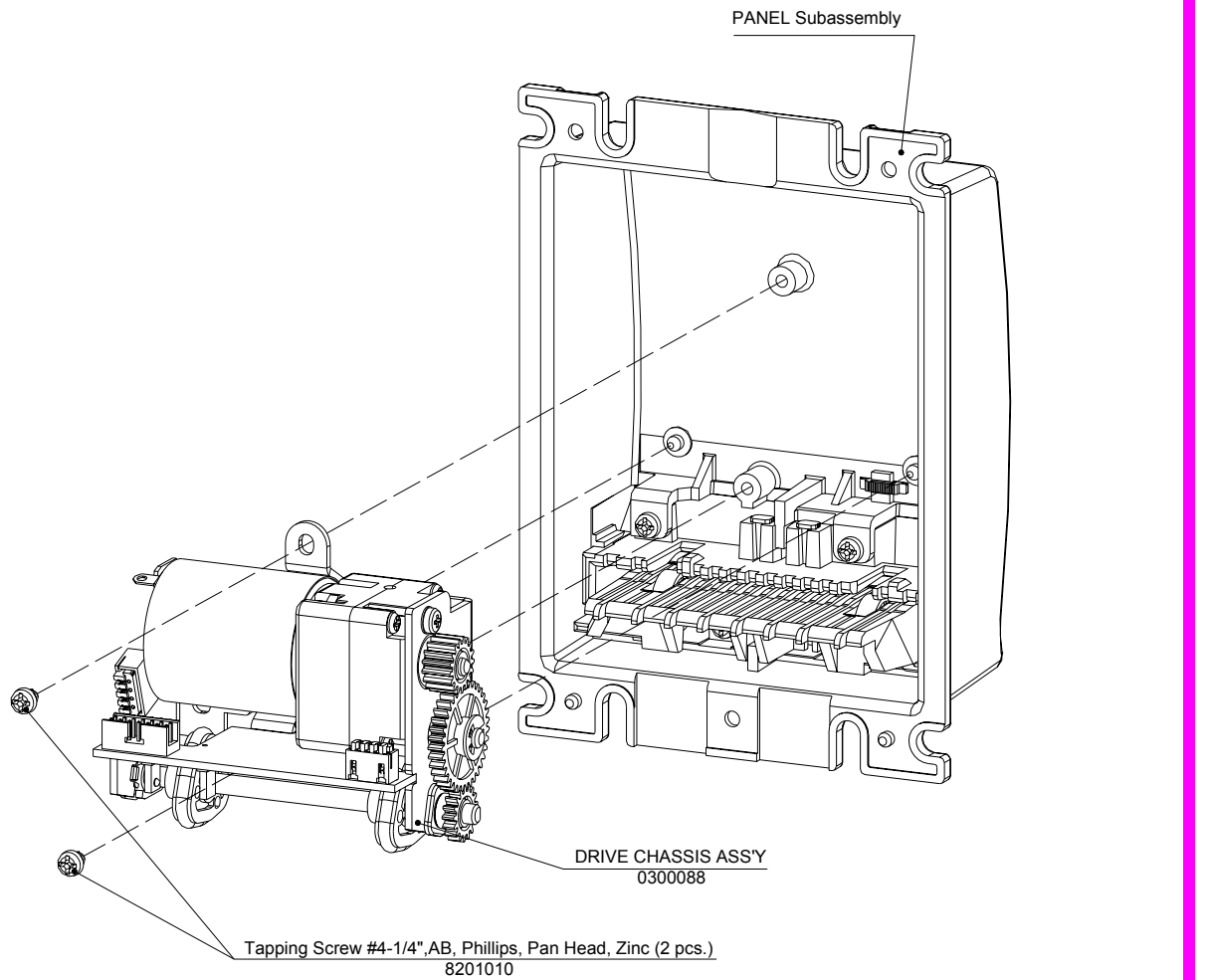
DISASSEMBLY OF DOWN METAL BAZEL 0200232-01

Tools required:

- Electroscrowdriver

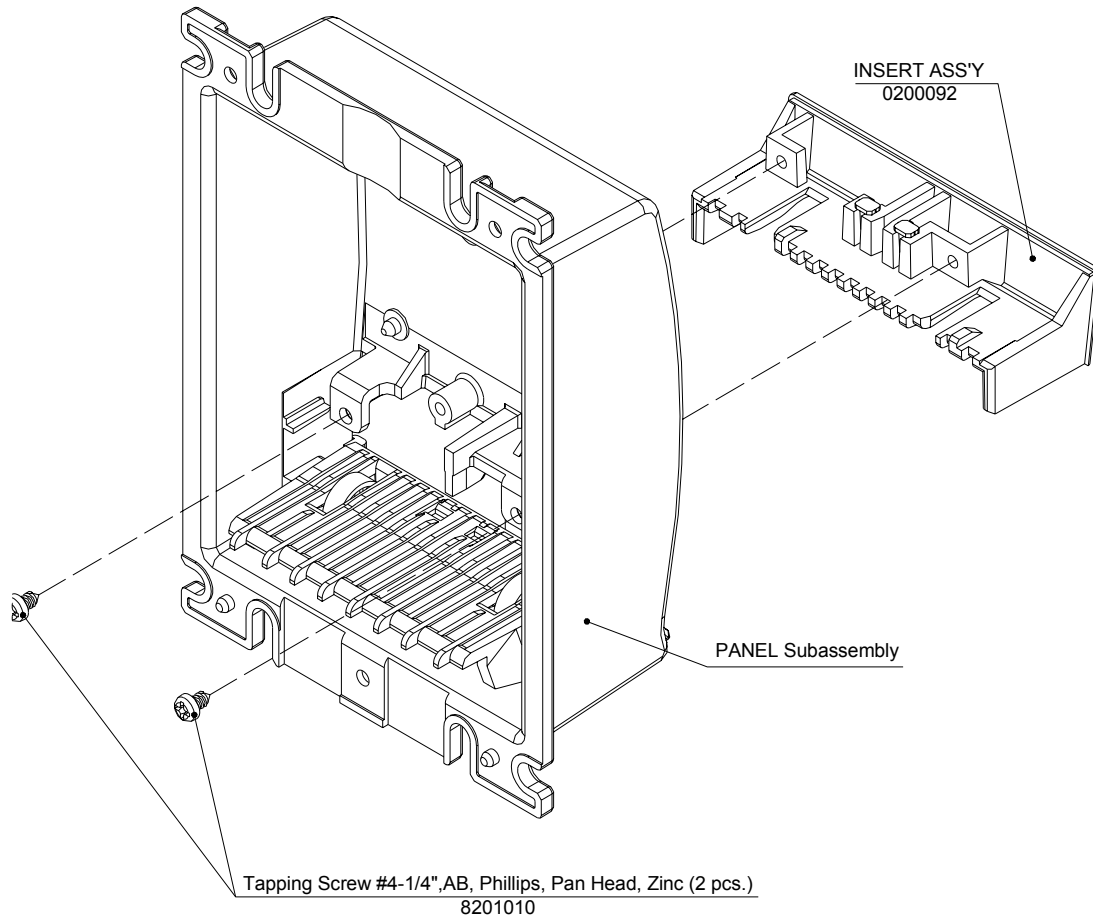
Step 1.

- Remove 2 tapping screws
- Remove drive chassis



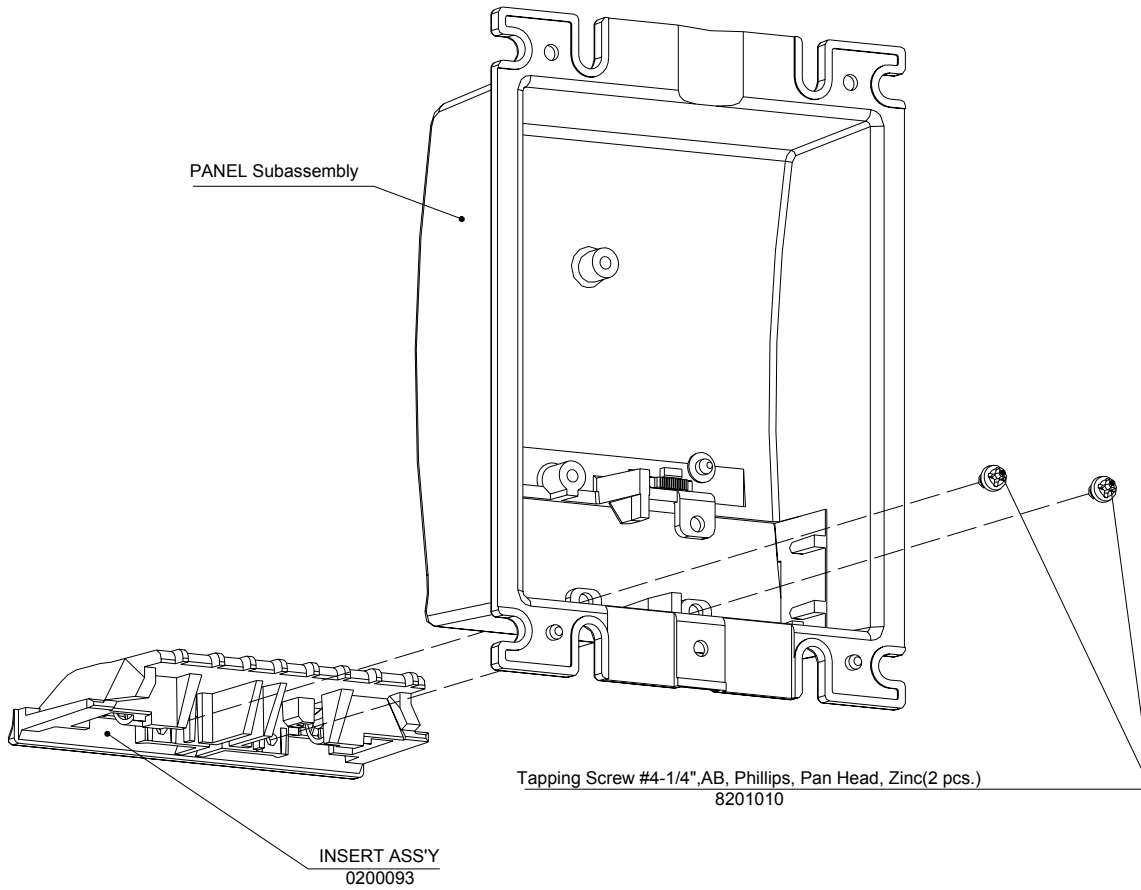
Step 2.

- Remove 2 tapping screws
- Remove insert.



Step 3.

- Remove 2 tapping screws
- Remove insert.



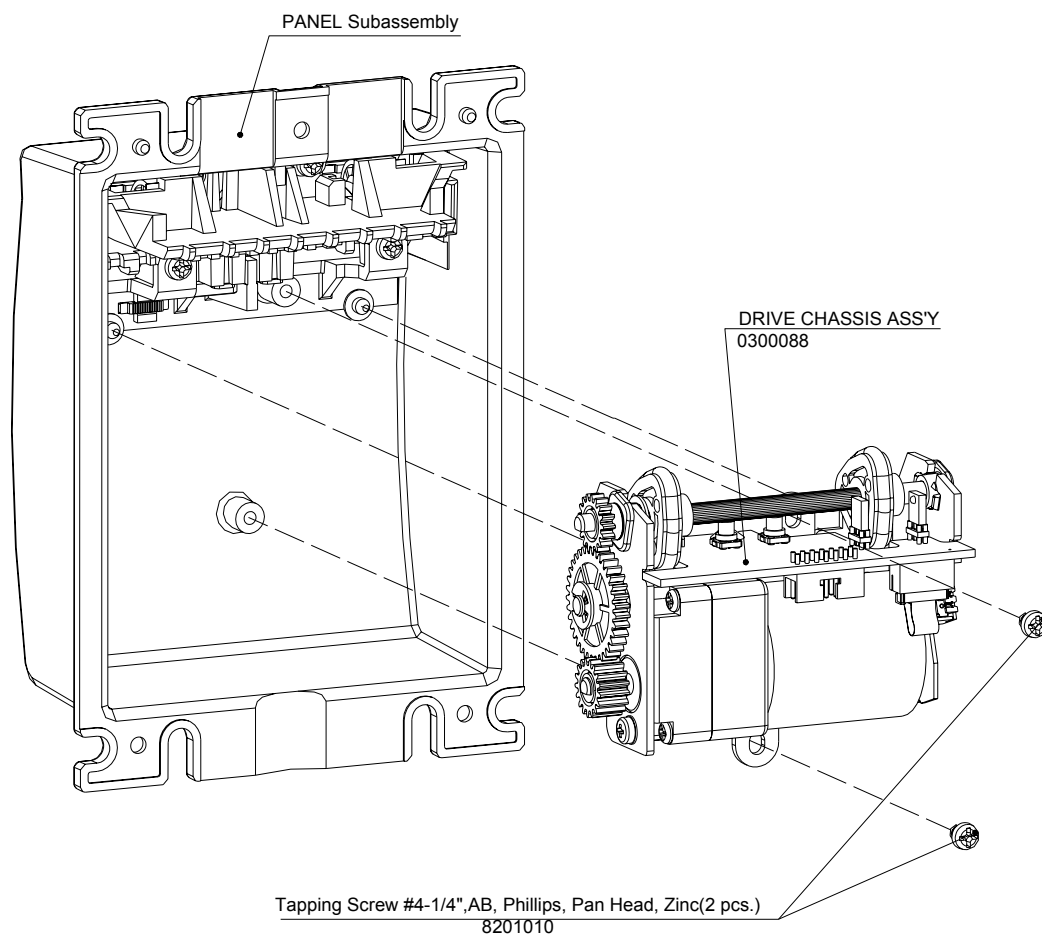
DISASSEMBLY OF UP METAL BAZEL 0100232

Tools required:

- Electroscrowdriver

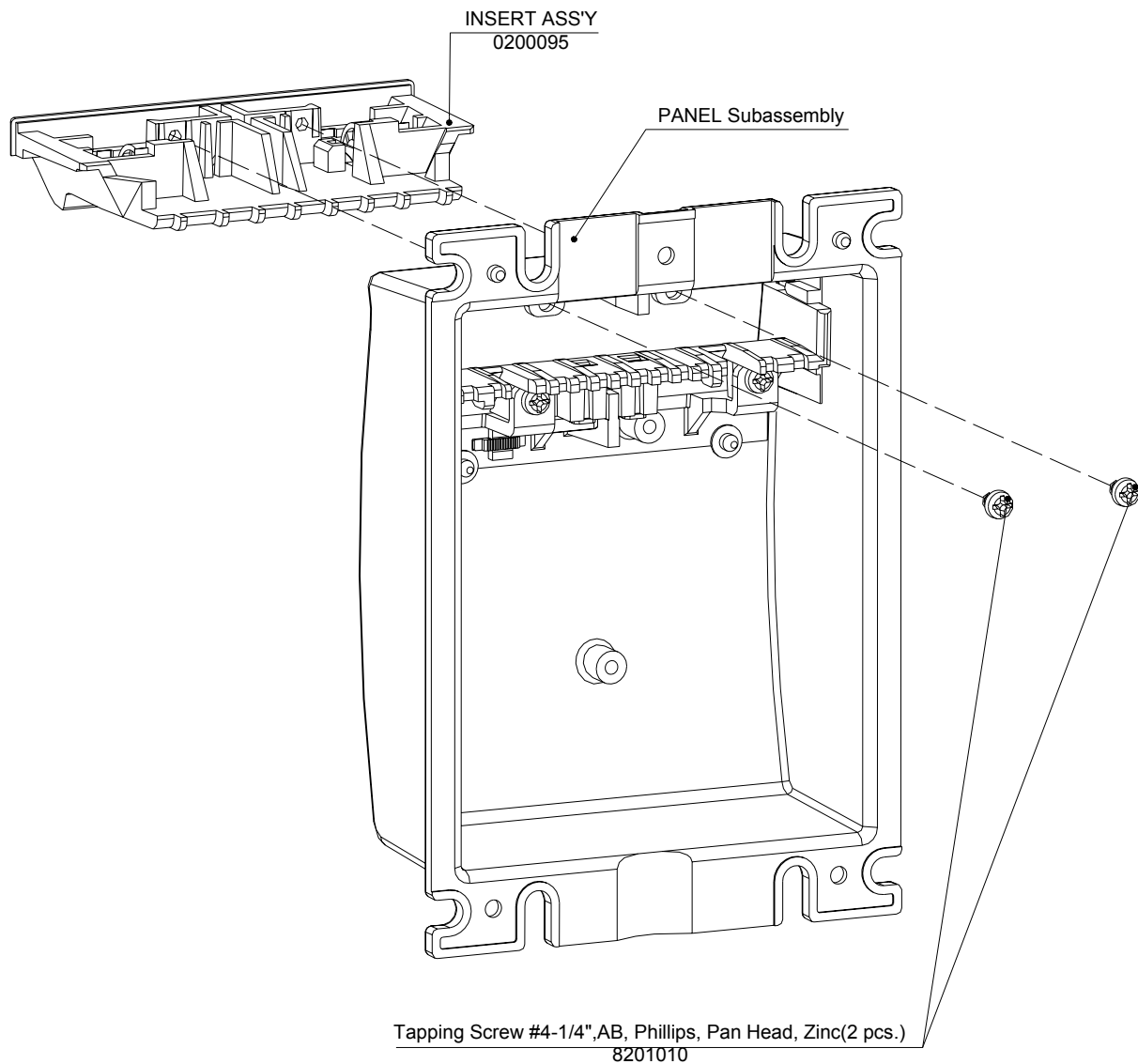
Step 1

- Remove 2 Tapping Screws
- Remove Drive Chassis



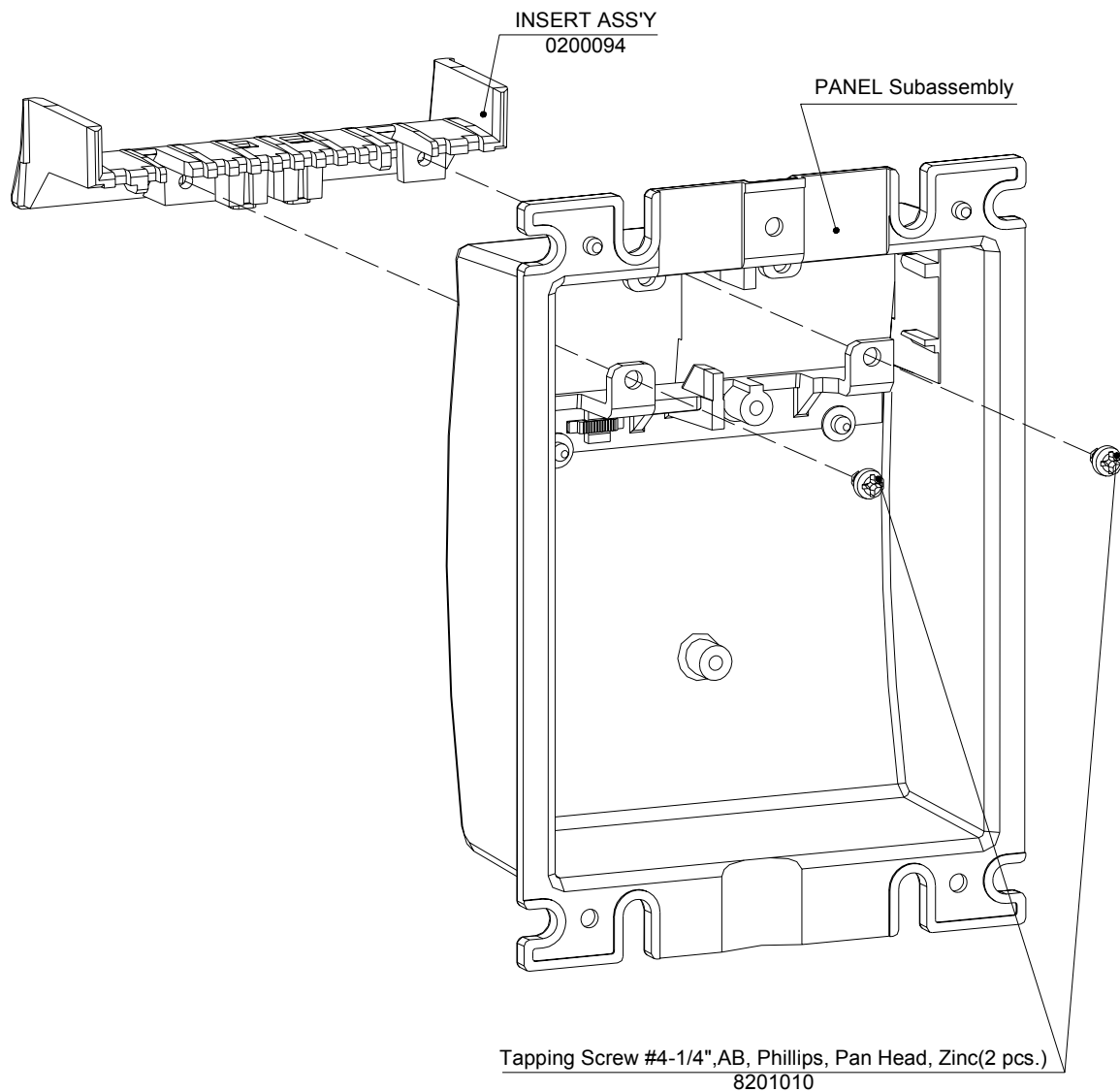
Step 2.

- Remove 2 Tapping Screws**
- Remove Insert.**



Step 3.

- Remove 2 Tapping Screws
- Remove Insert.



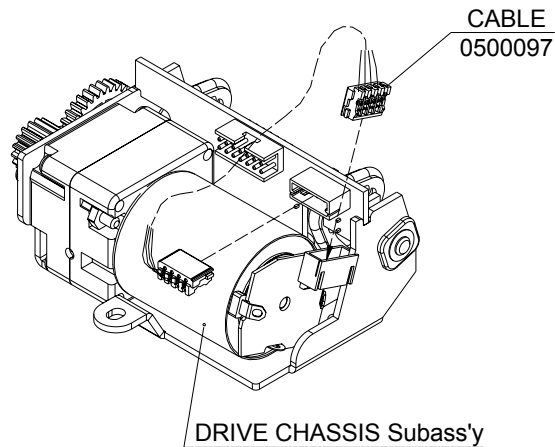
DISASSEMBLY OF DRIVE CHASSIS 0300088

Tools required:

- Electroscrowdriver

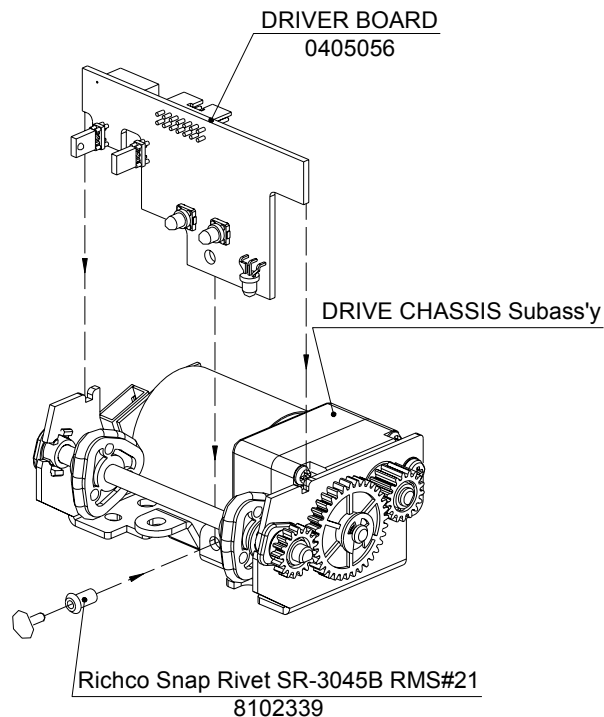
Step 1.

- Disconnect cable from Motor Board



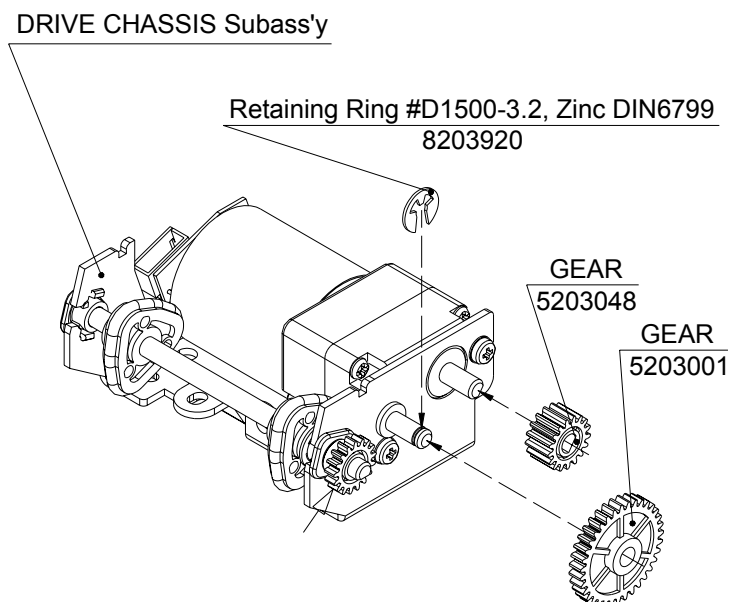
Step 2.

- Remove Snap Rivet
- Remove Driver Board



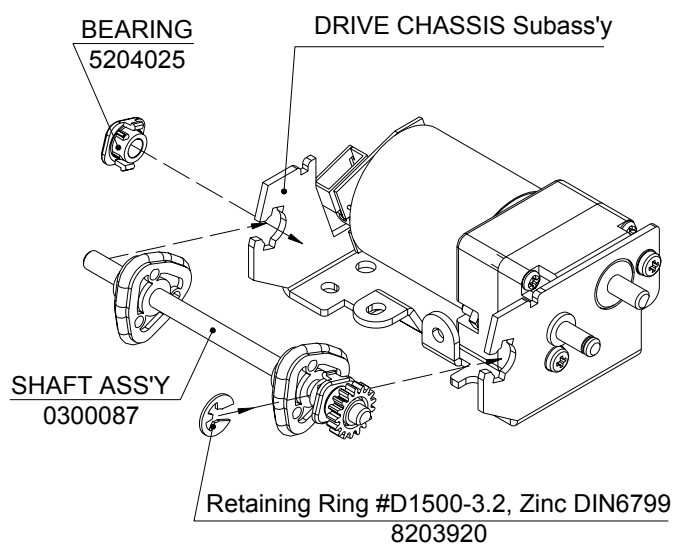
Step 3.

- Remove Retaining Ring
- Remove two Gears



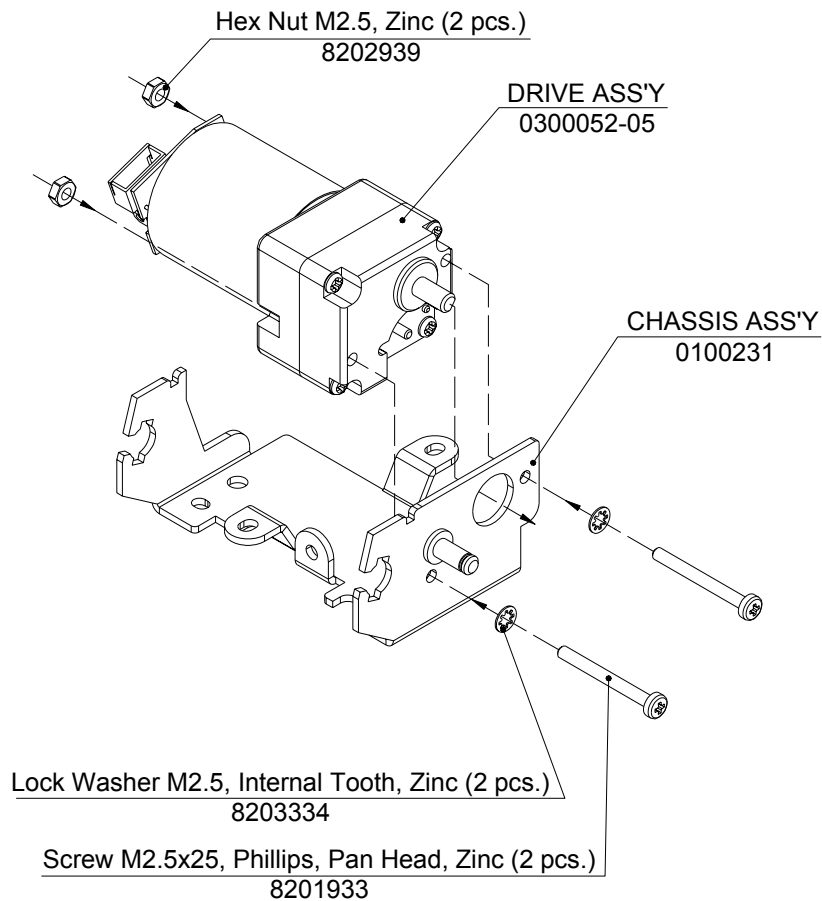
Step 4.

- Remove Retaining Ring
- Remove Bearing and Shaft Ass'y



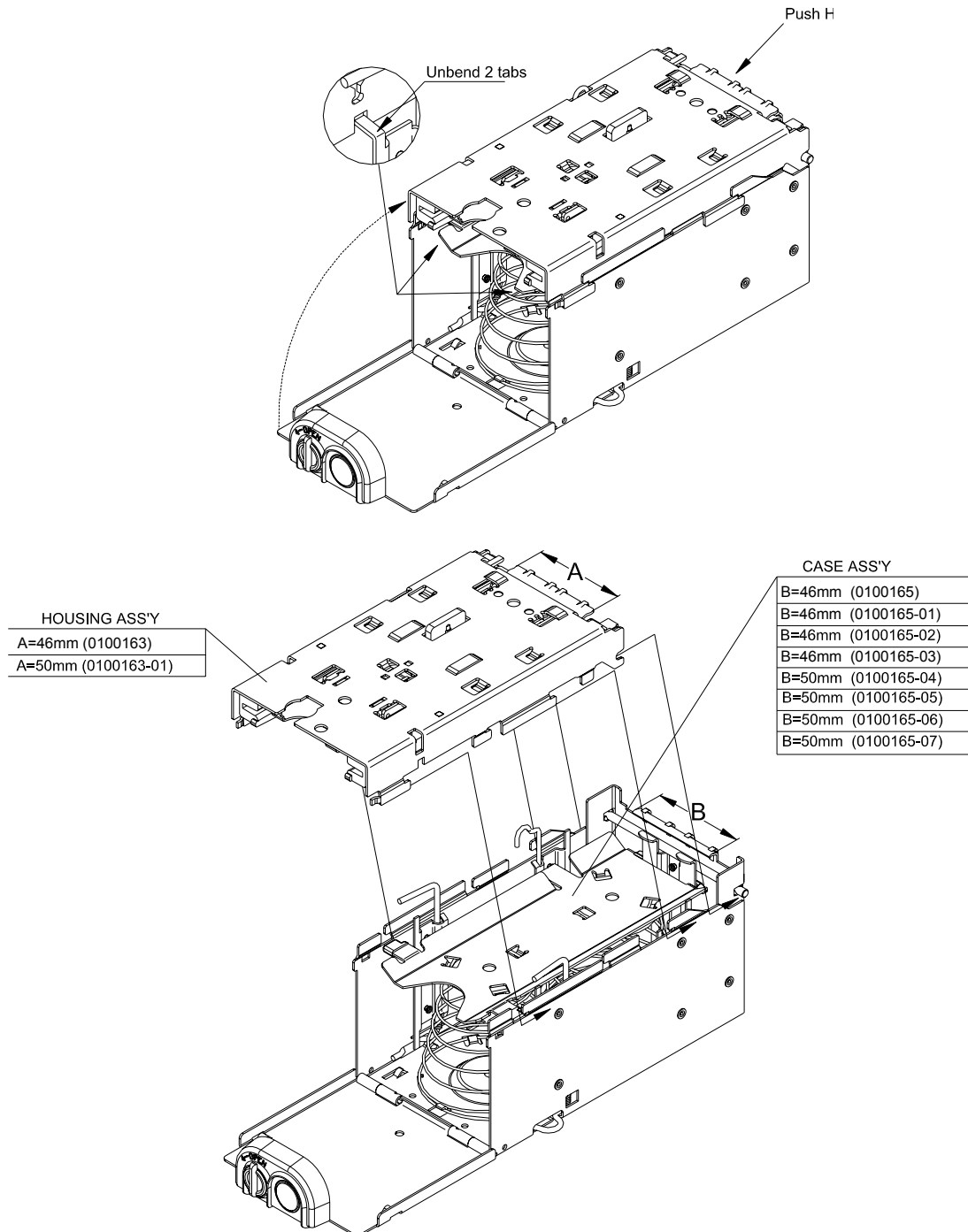
Step 5.

- Remove 2 Screws, 2 Hex Nuts, 2 Lock Washers
- Remove Chassis Ass'y



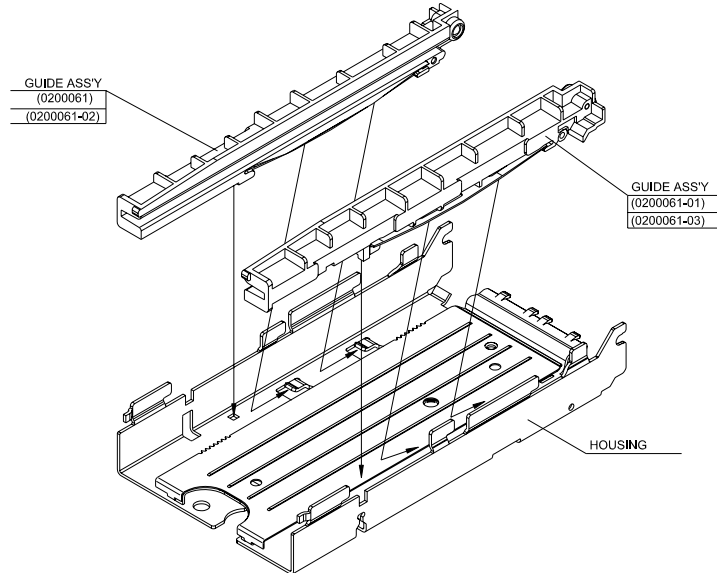
DISASSEMBLY OF CASSETE AND SUBASSEMBLIES

Step 1 -Remove Housing from Case

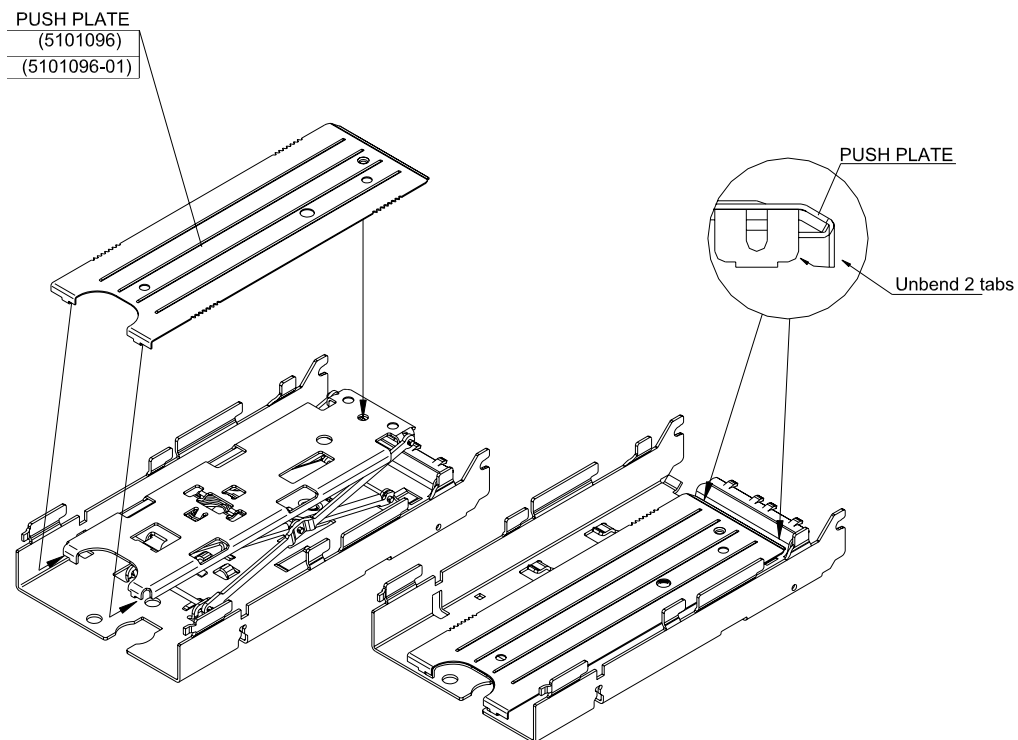


DISASSEMBLY OF HOUSING

Step 2 -Remove Guides

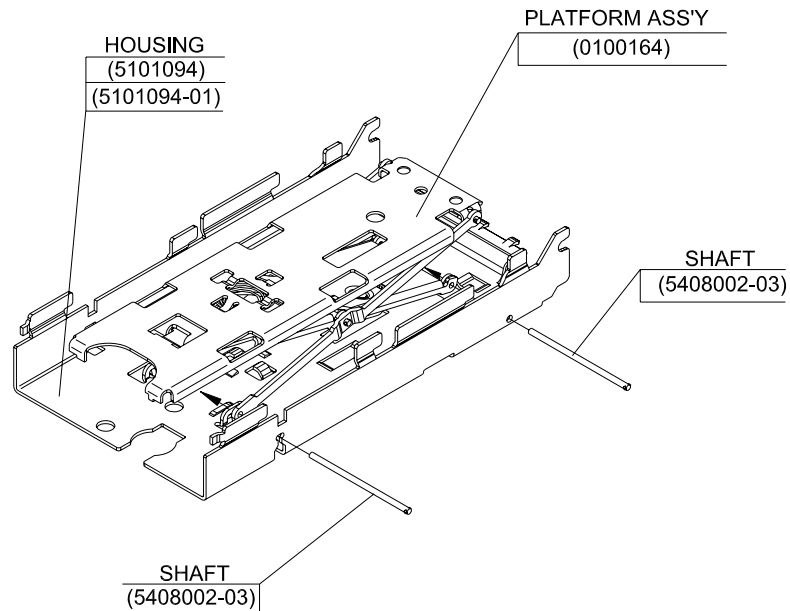


Step 3 -Remove Push Plate by following unbend 2 tabs



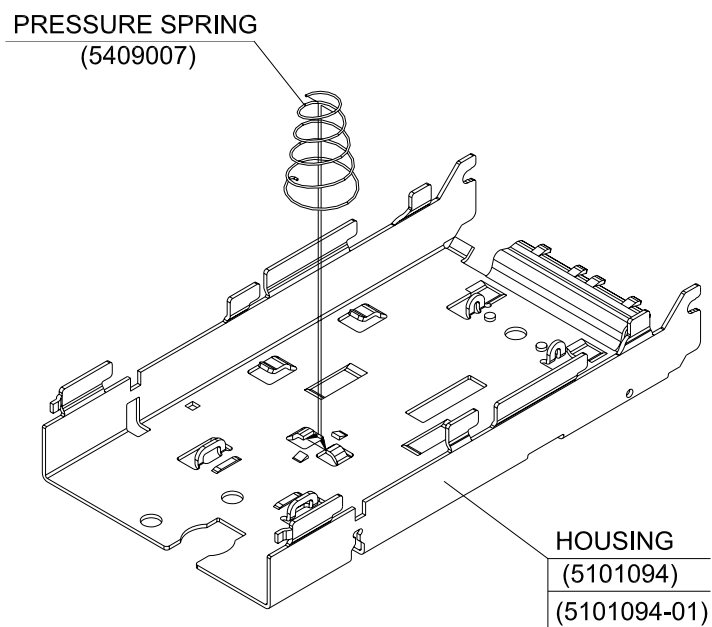
Step 4

- Remove two shaft
- Remove platform ass'y



Step 5

- Remove pressure spring

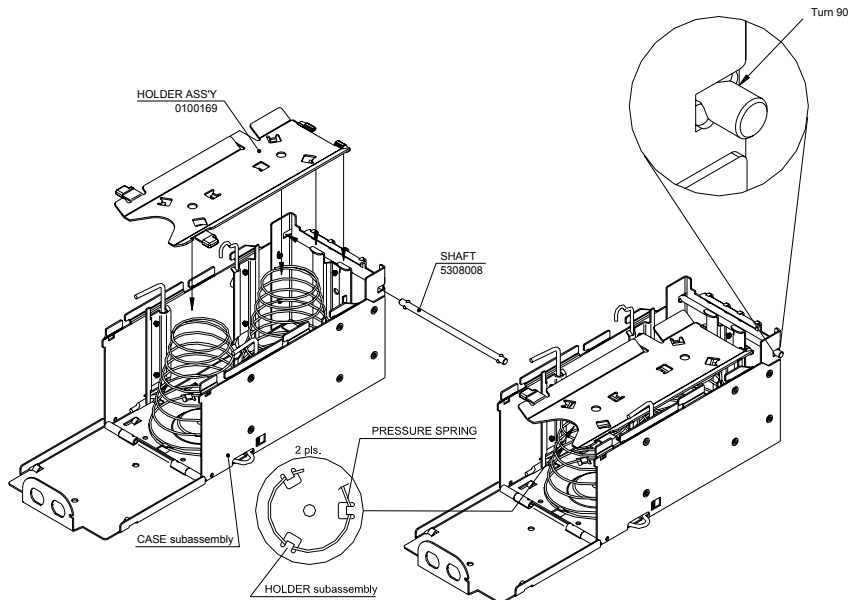


DISASSEMBLY OF 170; 400; 600; 1000 CAPACITY CASE AND SUBASSEMBLIES

Step 1

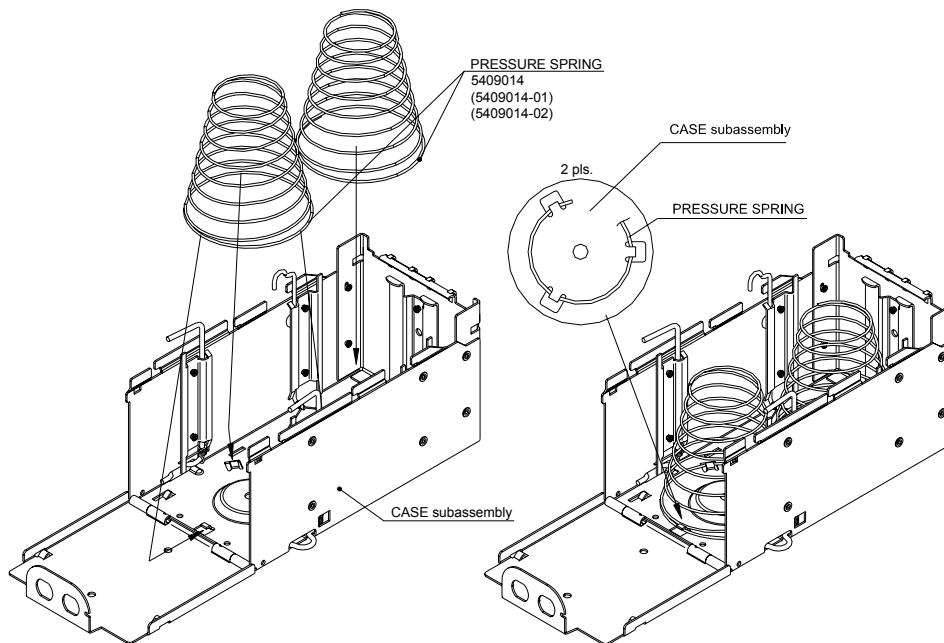
-Remove Shaft

-Remove Holder by to following exempt from Pressure Springs



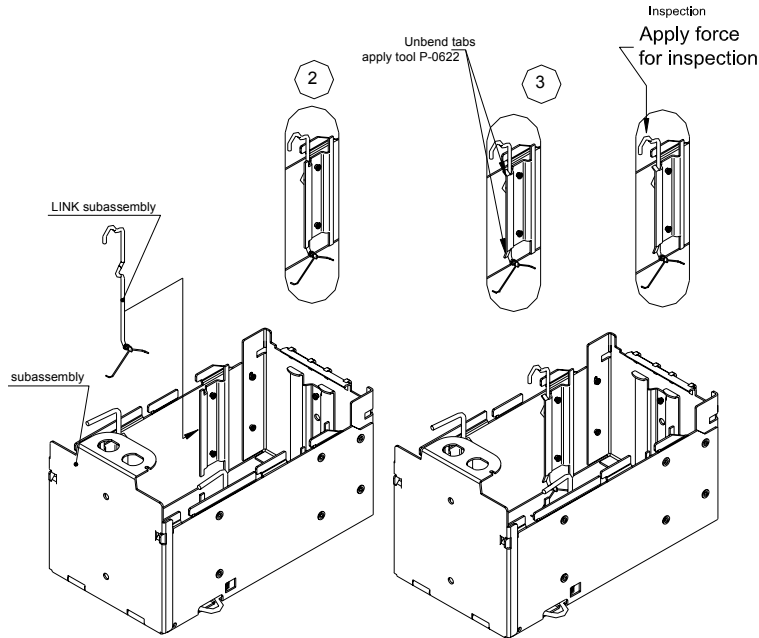
Step 2

-Remove Pressure Springs



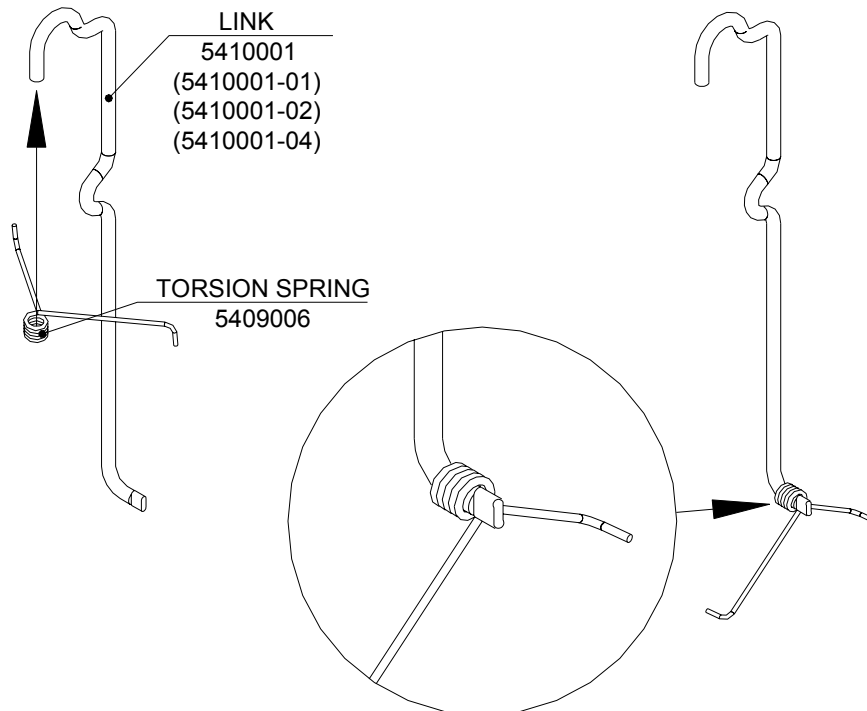
Step 3

-Remove Link with Spring by to following unbend tab



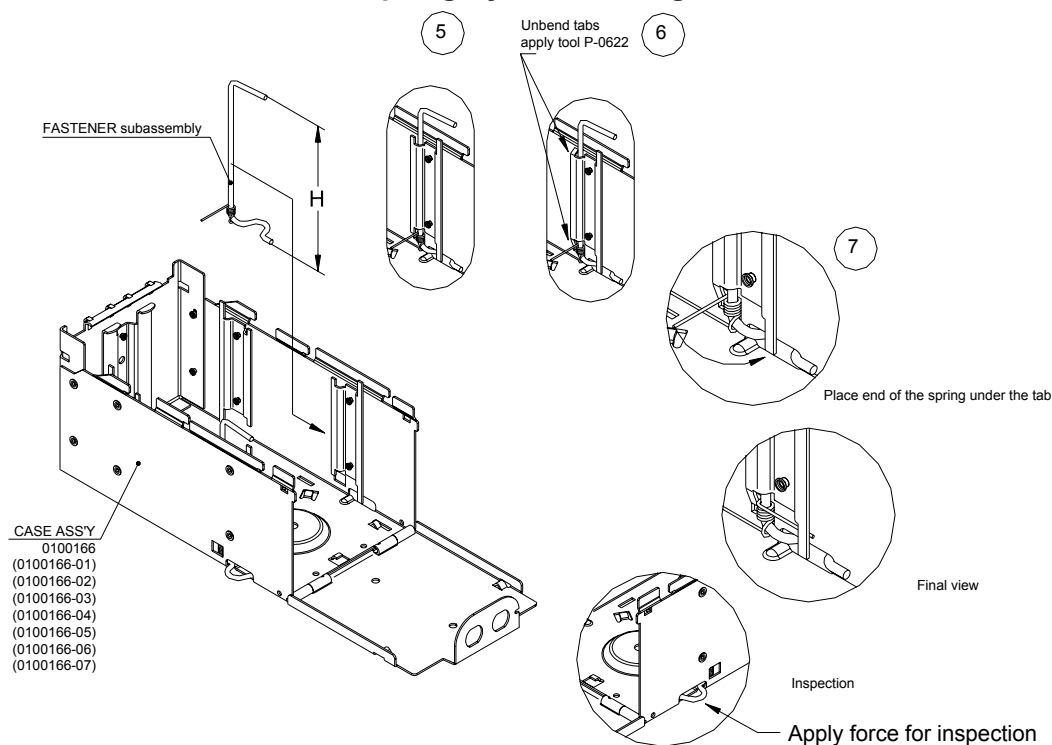
Step 4

-Remove Torsion Springs



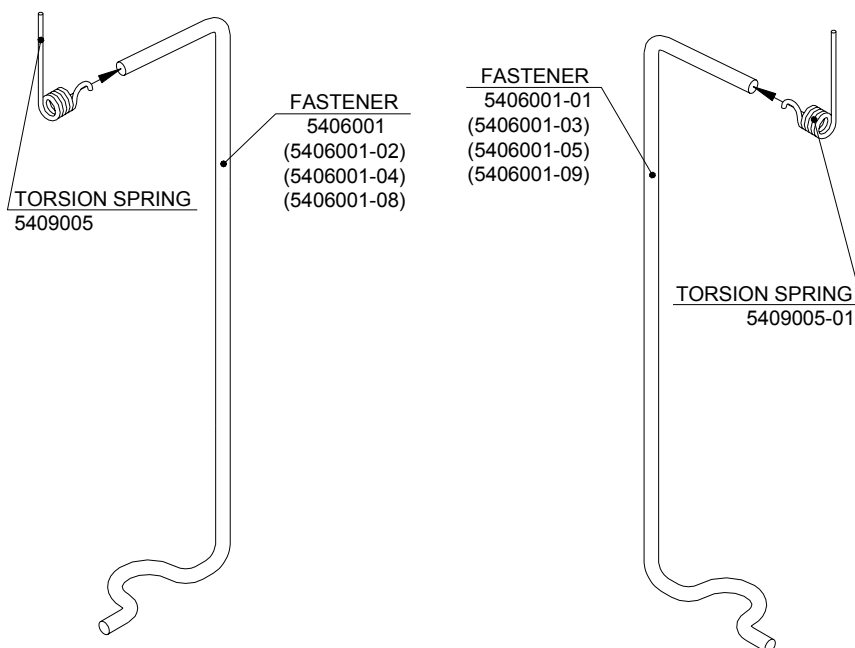
Step 5

-Remove two Fasteners with Spring by following unbend tab



Step 6

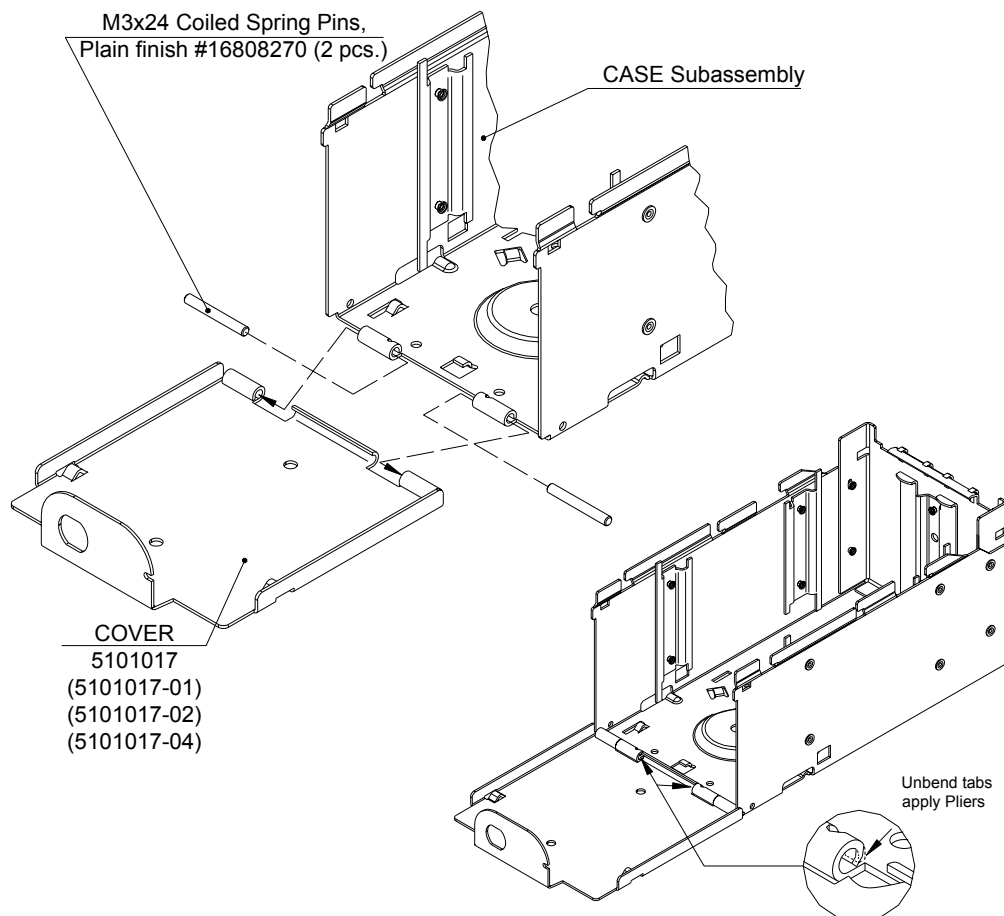
-Remove Torsion Springs



Step 7

-Remove two Coiled Spring Pins by to following unbend 2 tabs

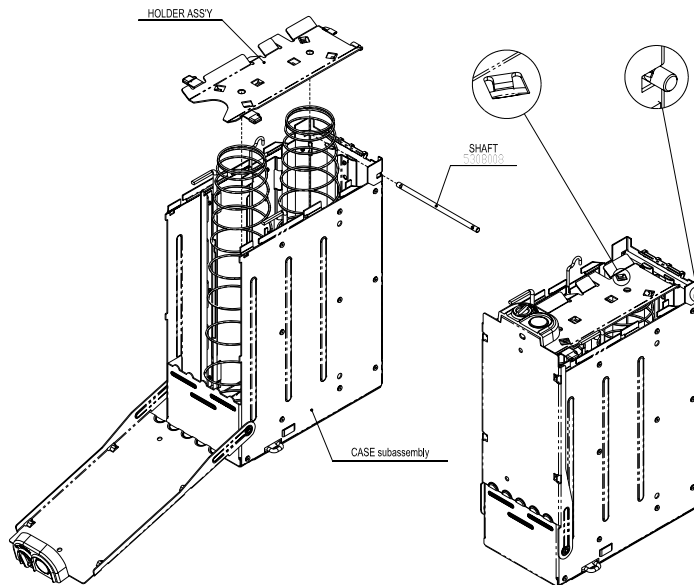
-Remove Cover



DISASSEMBLY OF 1500 CAPACITY CASE AND SUBASSEMBLIES

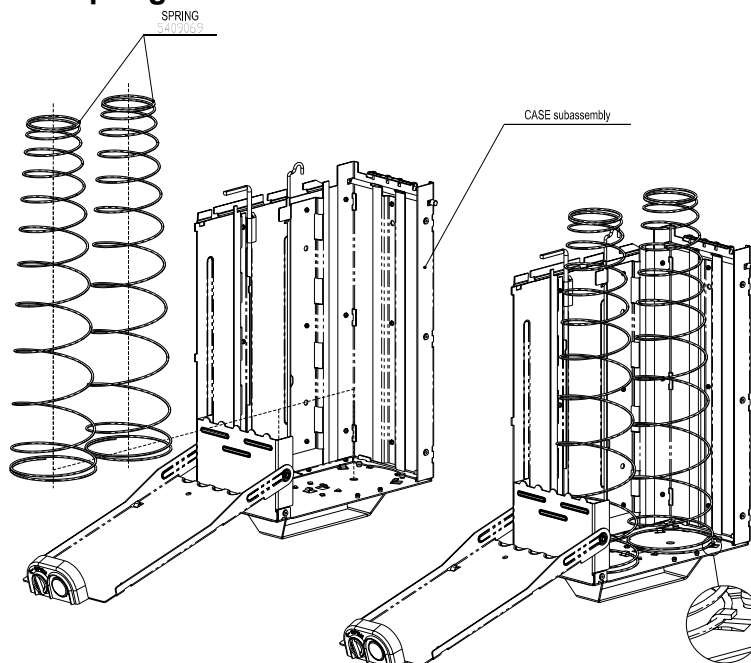
Step 1

- Remove Shaft
- Remove Holder by following exempt from Pressure Springs
- Remove Pressure Springs



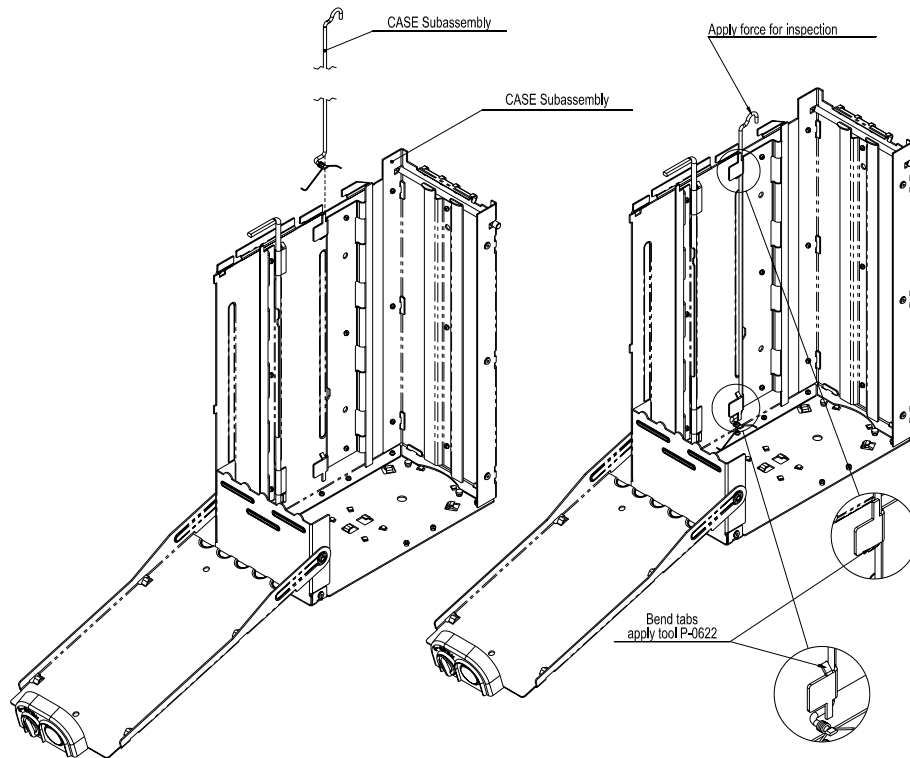
Step 2

- Remove Pressure Springs



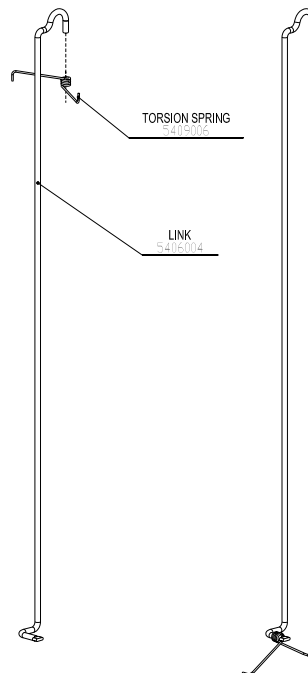
Step 3

-Remove Link with Spring by to following unbend tab



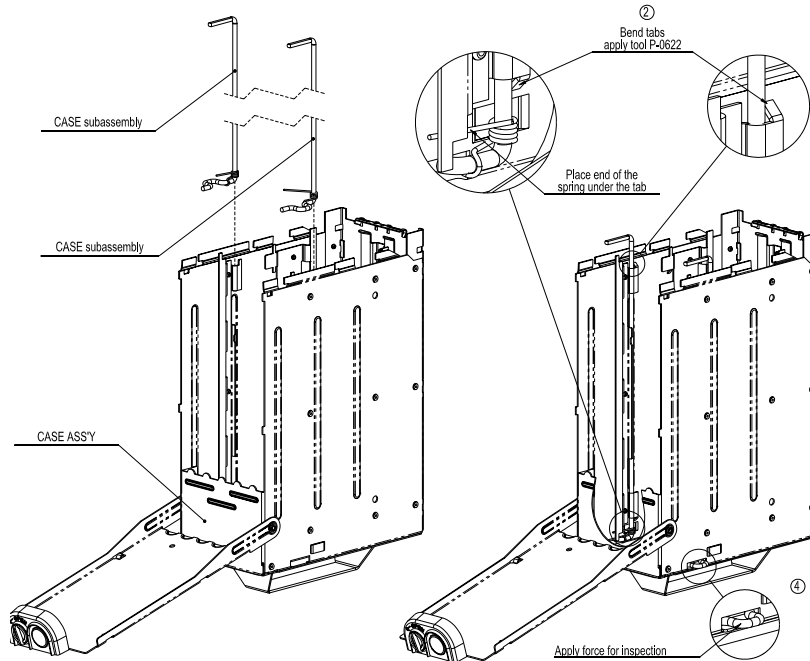
Step 4

-Remove Torsion Spring



Step 5

- Remove two Fasteners with Spring by following unbend tab
- Remove two Caps and two Shrinkable Tubing



Step 4

- Remove Torsion Springs

