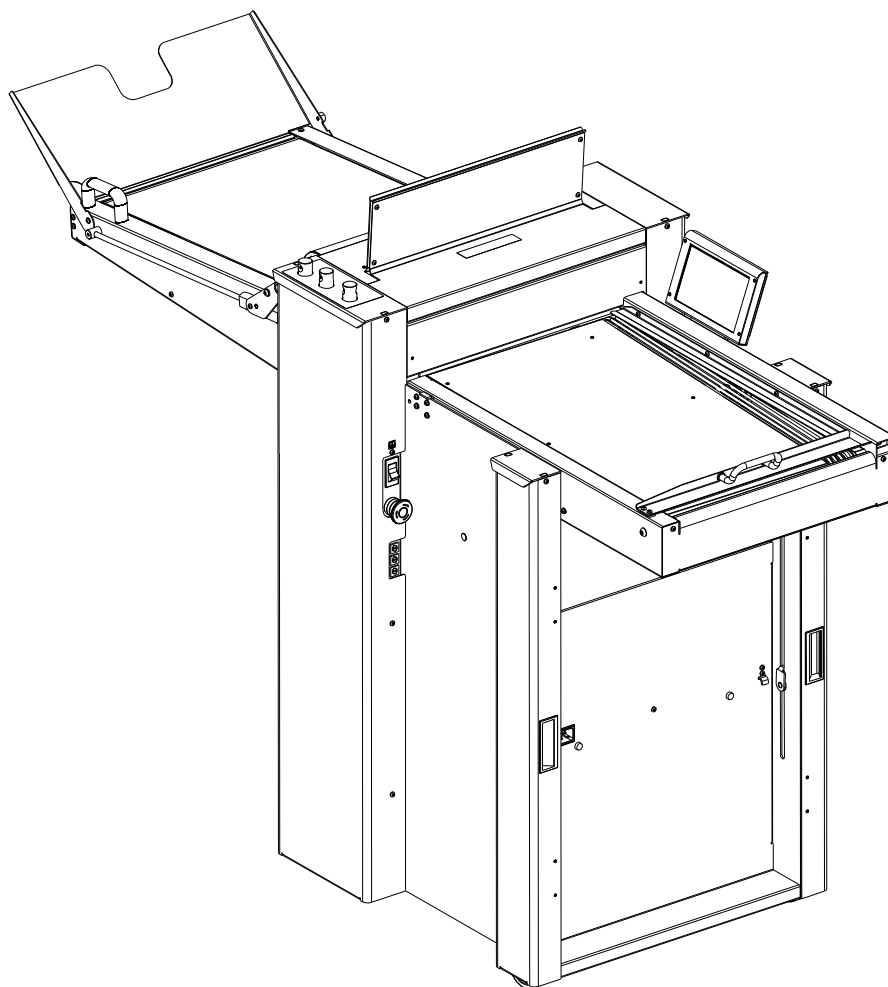




AutoFold Pro



DOCUMENT FOLDING MACHINE

ILLUSTRATED PARTS MANUAL

Morgana Systems Limited United Kingdom
Telephone: (01908) 608888 Facsimile: (01908) 692399
Website: www.morgana.co.uk

ISSUE 6 SEPTEMBER 2011

184-010

morgana

AutoFold Pro

ILLUSTRATED PARTS MANUAL

The Illustrated Parts Manual has been designed to assist when selecting a part or assembly which may be required to service or repair your machine.

The index on page four lists all of the major assemblies in the order in which the machine is constructed.

The following page demonstrates how to recognise a part from a sub-assembly and shows the quantity contained within the major assembly.

The major assembly number and description is listed at the top of the page and should always be quoted when ordering parts or when seeking technical advice.

Before ordering parts confirm that the model number of the machine (listed at the top of page four) is identical to the number stamped on the specification plate. Whilst checking this, make a note of the serial number also stamped on the plate.

Some components will not be made available individually as they form part of a sub-assembly which may require specialist tools and knowledge to dismantle. The machine may not perform correctly if attempts are made to repair sub-assemblies of this type.

NOTE....

**ALWAYS READ THE OPERATORS MANUAL BEFORE MAKING ANY
ADJUSTMENTS TO YOUR MACHINE AND ALWAYS DISCONNECT THE POWER
SUPPLY BEFORE REMOVING ANY COVERS.**

USING THIS MANUAL.....

CIRCLED ITEM NUMBERS IN LISTS & ON ILLUSTRATIONS INDICATE SUB ASSEMBLIES.

ITEMS LISTED ARE AVAILABLE INDIVIDUALLY AS SPARE PARTS.

10			
11	92 - 039	1	SLIDE FRAME ASSEMBLY - Low
12	95-046	1	SWITCH ASSEMBLY - Set-up
13	95-047	1	SWITCH ASSEMBLY - Feed
14	95-049	1	SWITCH ASSEMBLY - Rotary Setting Dial
15	95-058	1	SWITCH ASSEMBLY - Push Button 1
16	95-059	1	SWITCH ASSEMBLY - Push Button 2
17	95-060	1	SWITCH ASSEMBLY - Push Button 3
18	95-064	1	SWITCH ASSEMBLY - Push Button 4
19			
30			

QUANTITY PER ASSEMBLY

NOTE....

Some sections have footnotes to explain various aspects of the parts lists and accompanying illustrations. They may also include warnings about the fitting of parts, their removal, or the need to use special tools.

TIP....

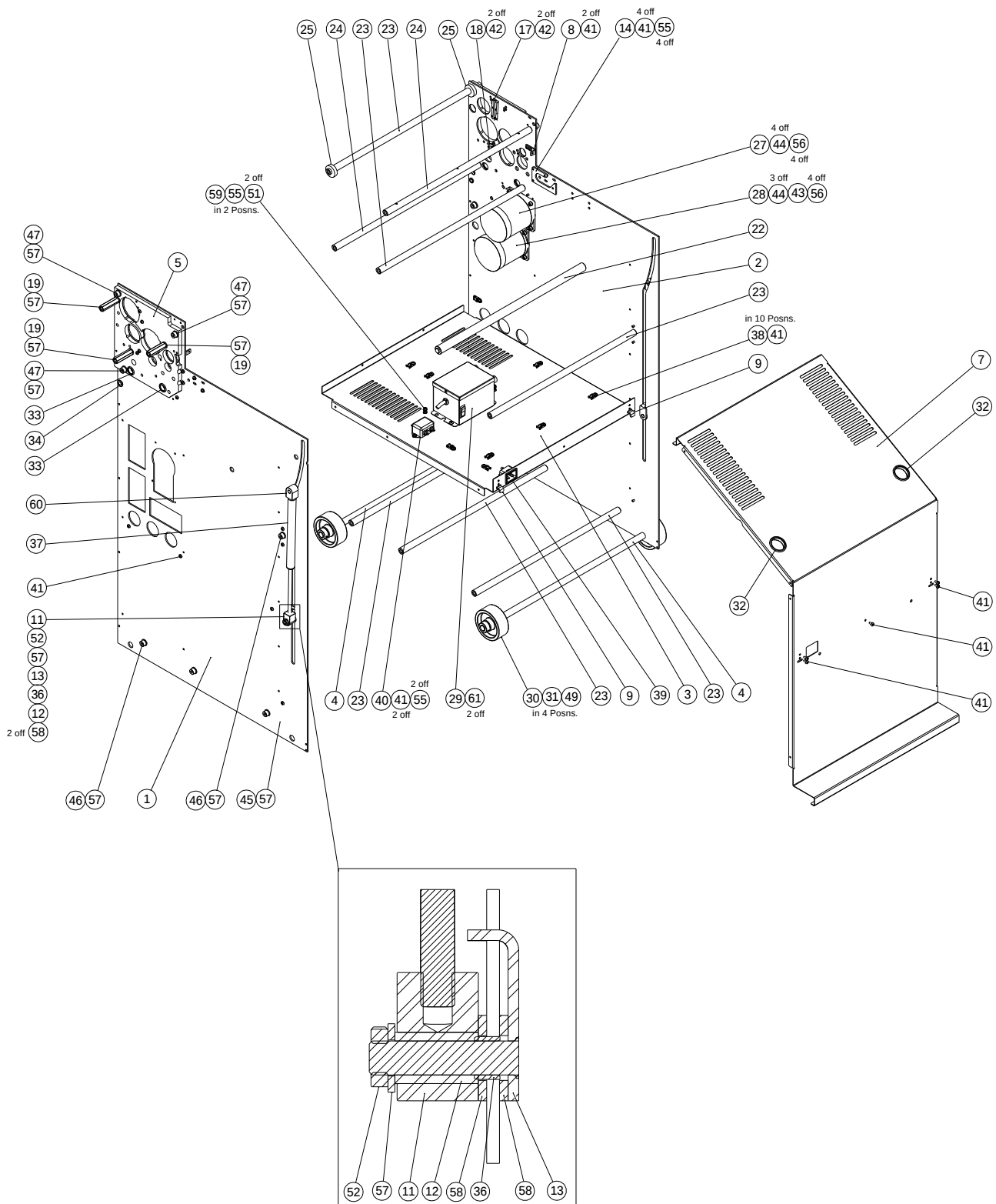
Some sections have tips to assist you in choosing spare parts for your machine or advice about keeping certain parts readily available to minimise downtime.

WARNING.....

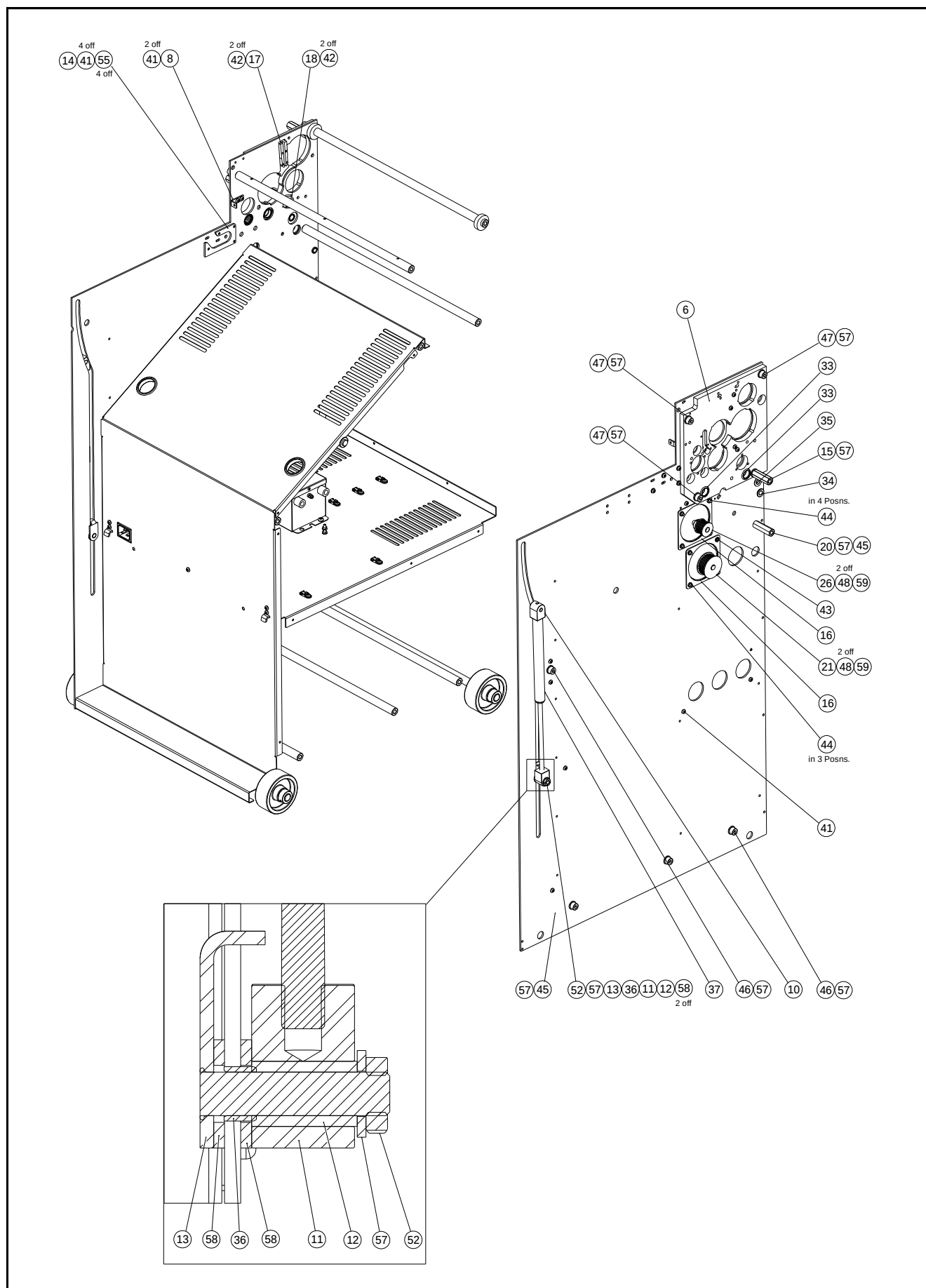
SOME SECTIONS HAVE WARNING NOTICES TO ADVISE YOU ABOUT ACTIONS WHICH MAY IMPAIR YOUR MACHINES PERFORMANCE OR CAUSE UNNECESSARY DAMAGE.

SECTION	ASSEMBLY	DESCRIPTION	PAGE
1	181-01-01	MAIN FRAME ASSEMBLY	6
2	185-01-01	MECHANISM	10
3	188-01-01	DELIVERY SYSTEM	26
4	1808202	FINAL ASSEMBLY	34

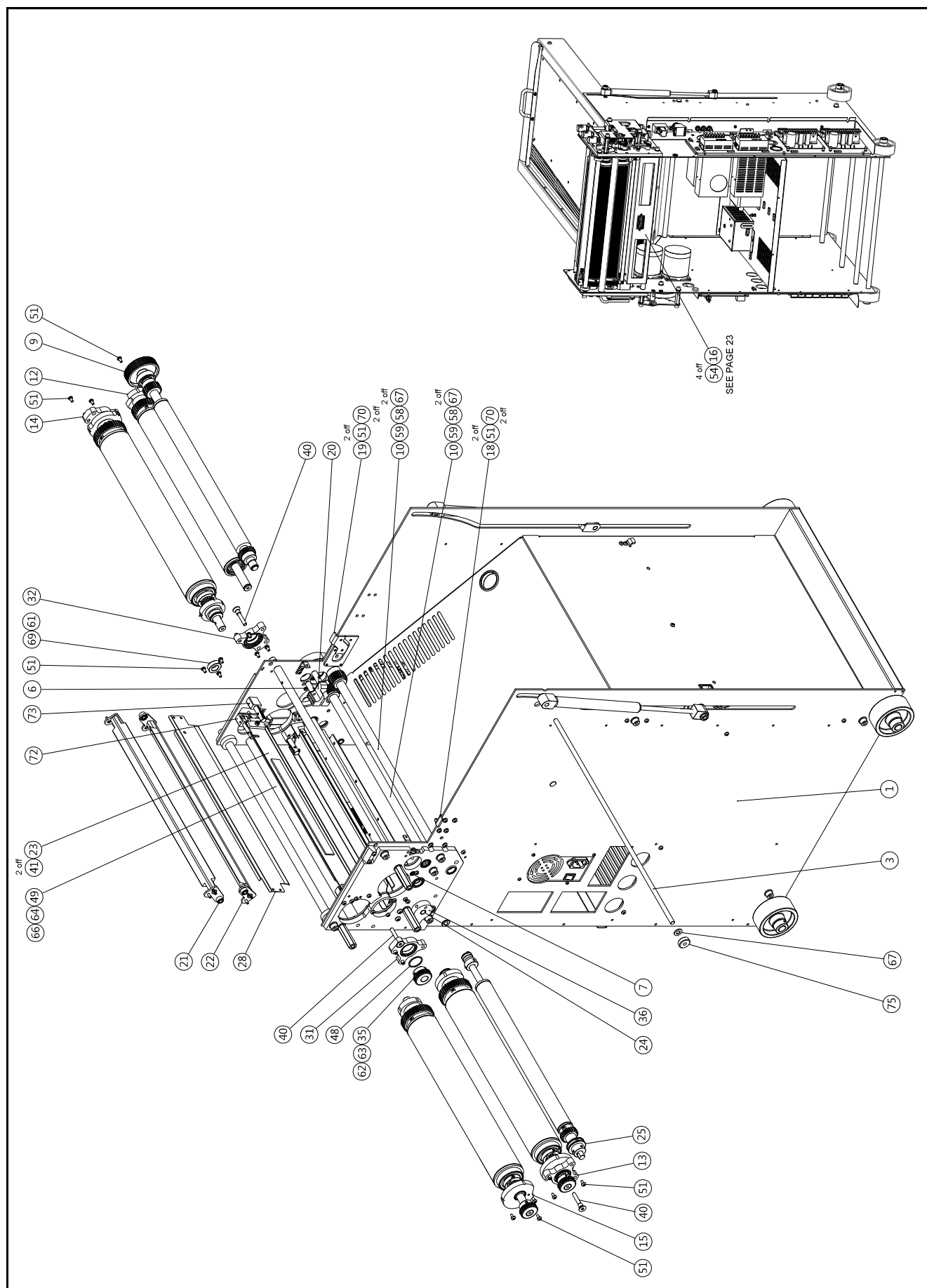
BLANK
PAGE



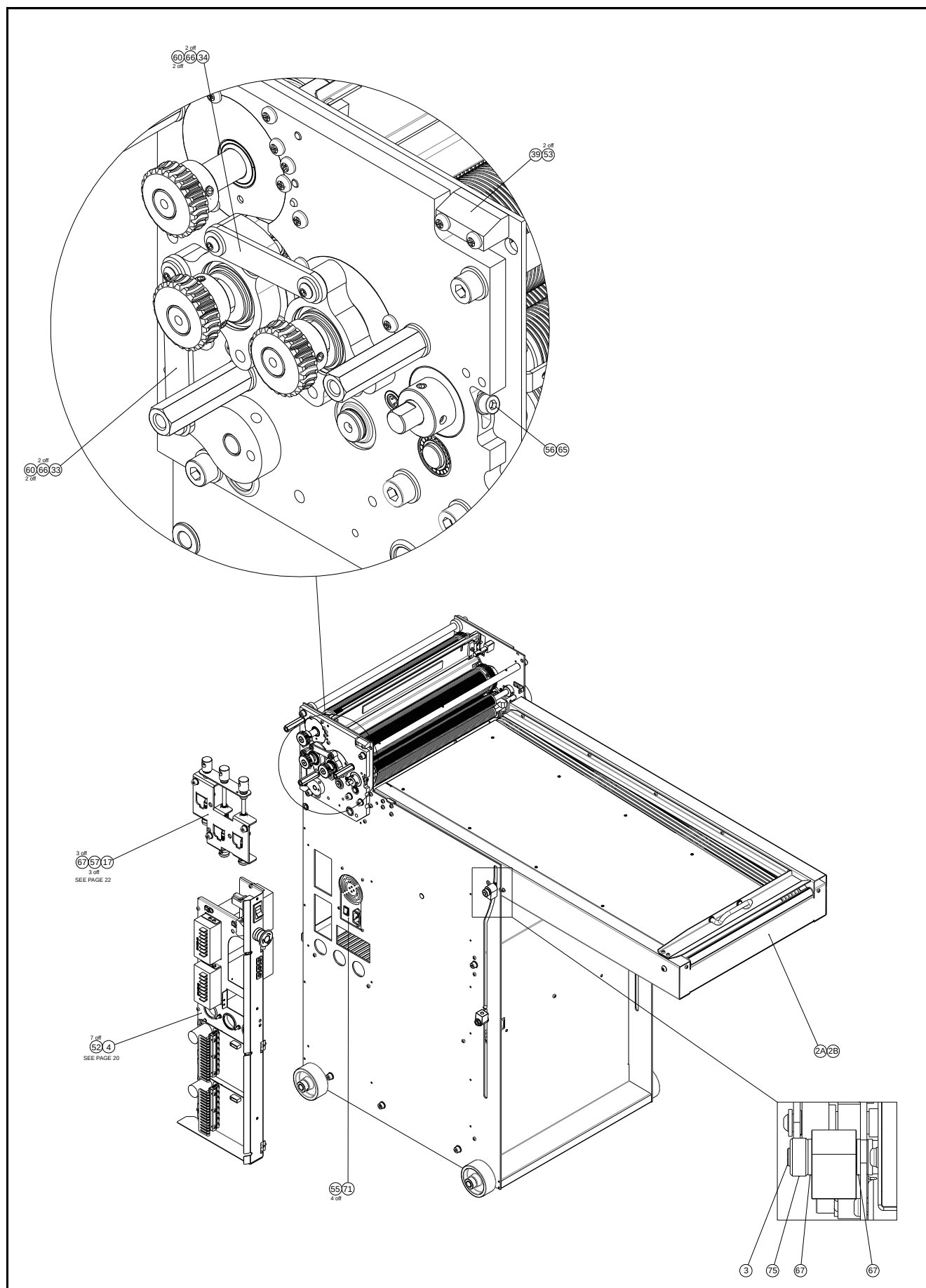
[illegible]

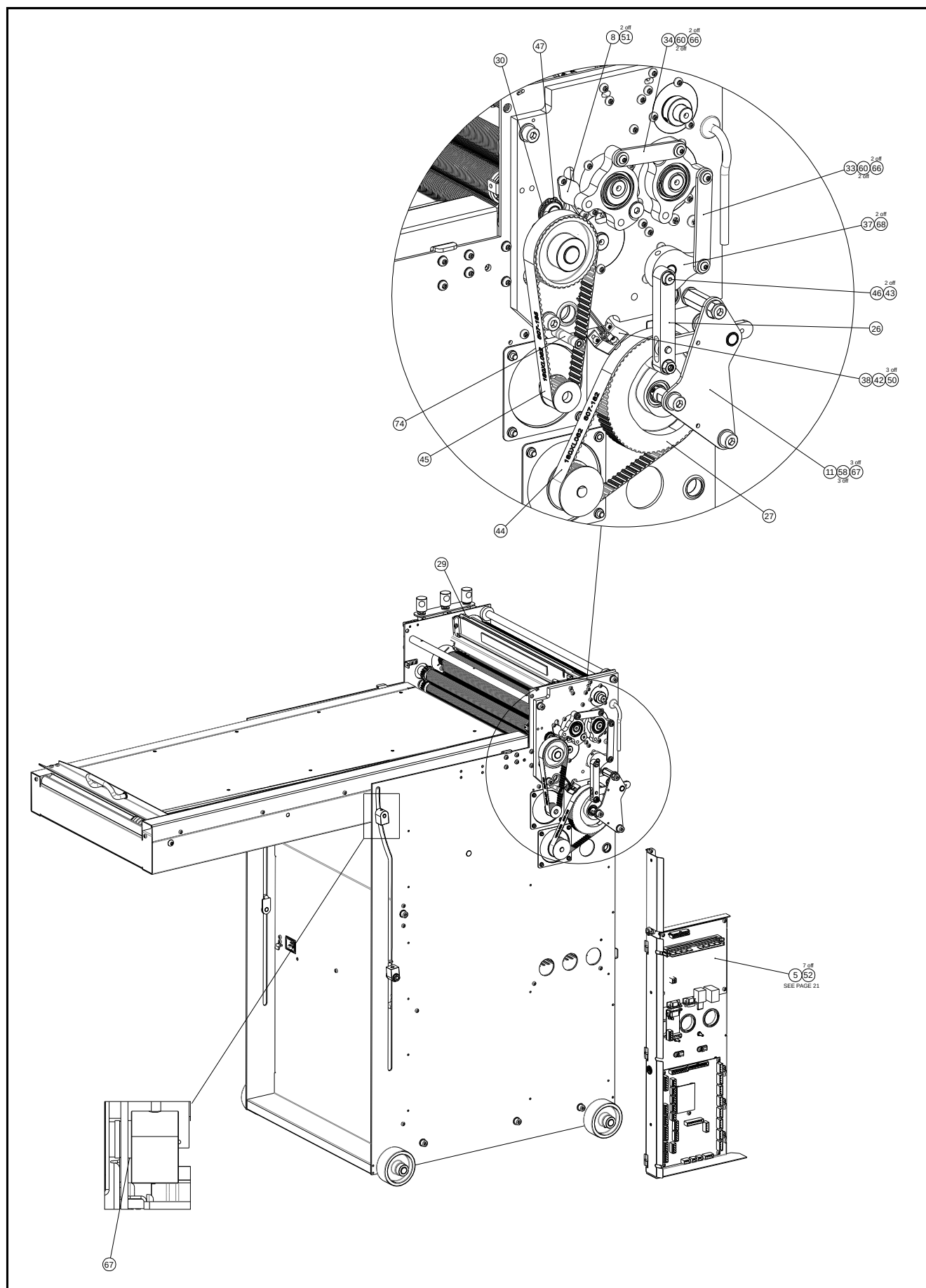


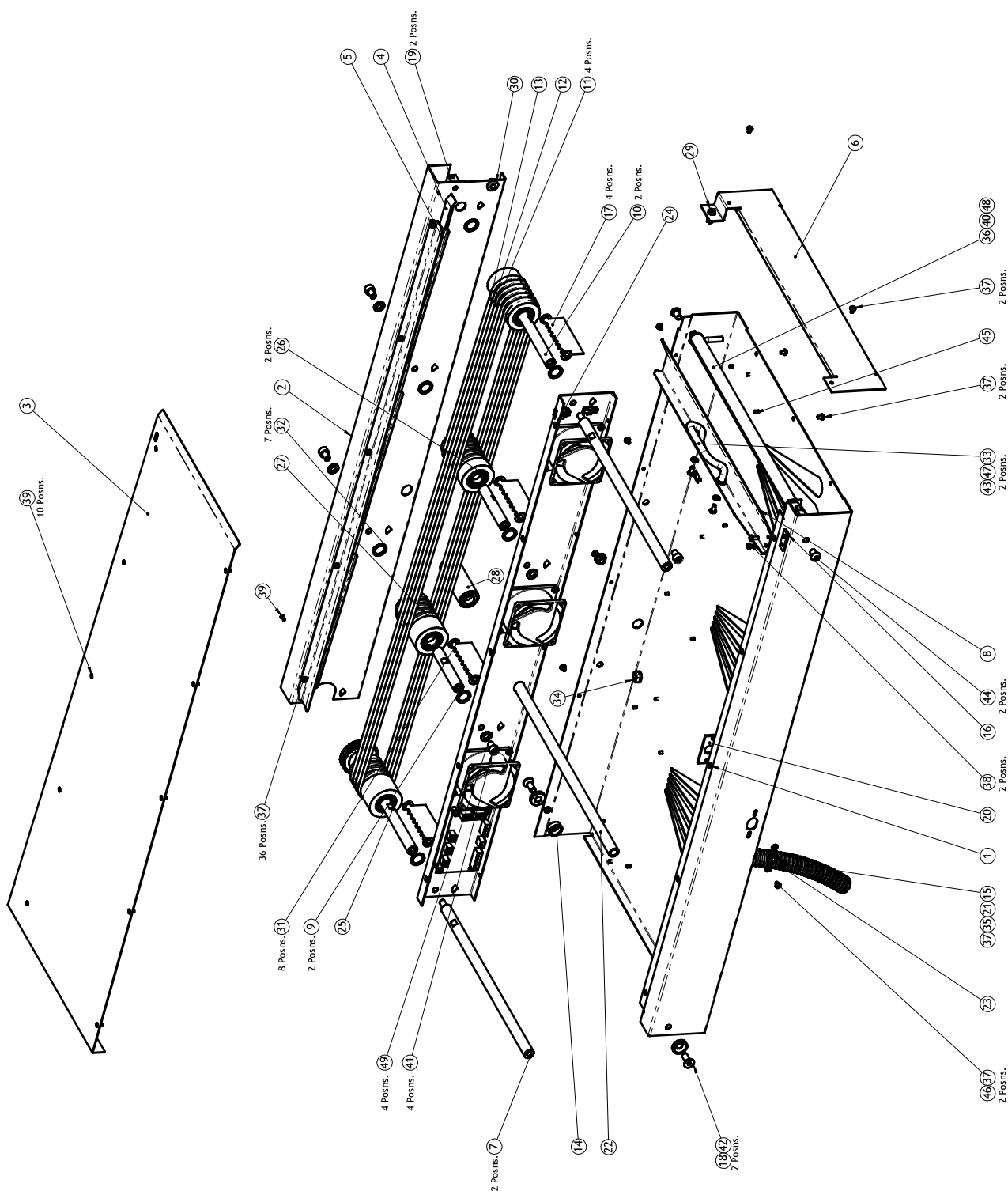
[illegible]



[illegible]

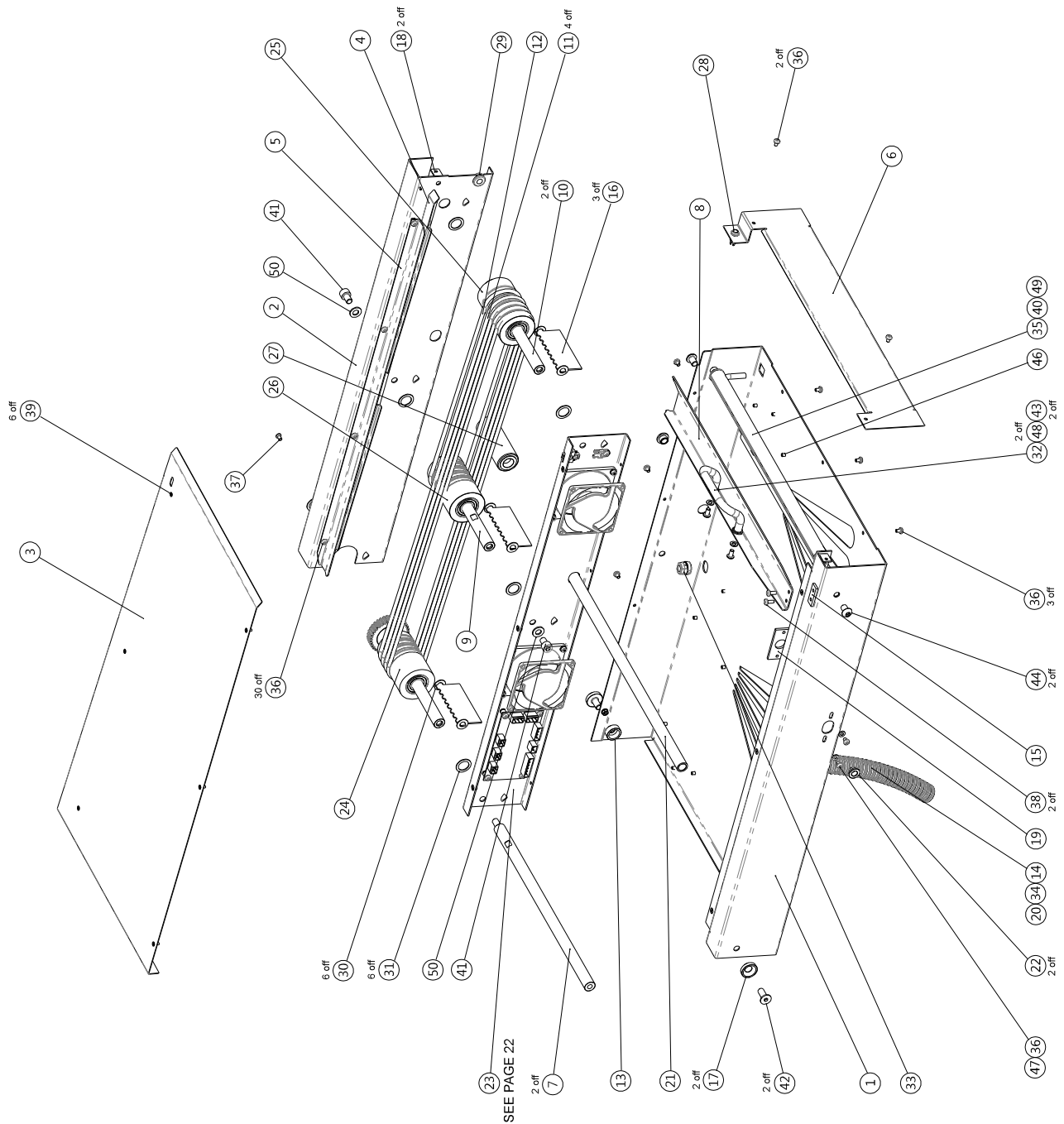






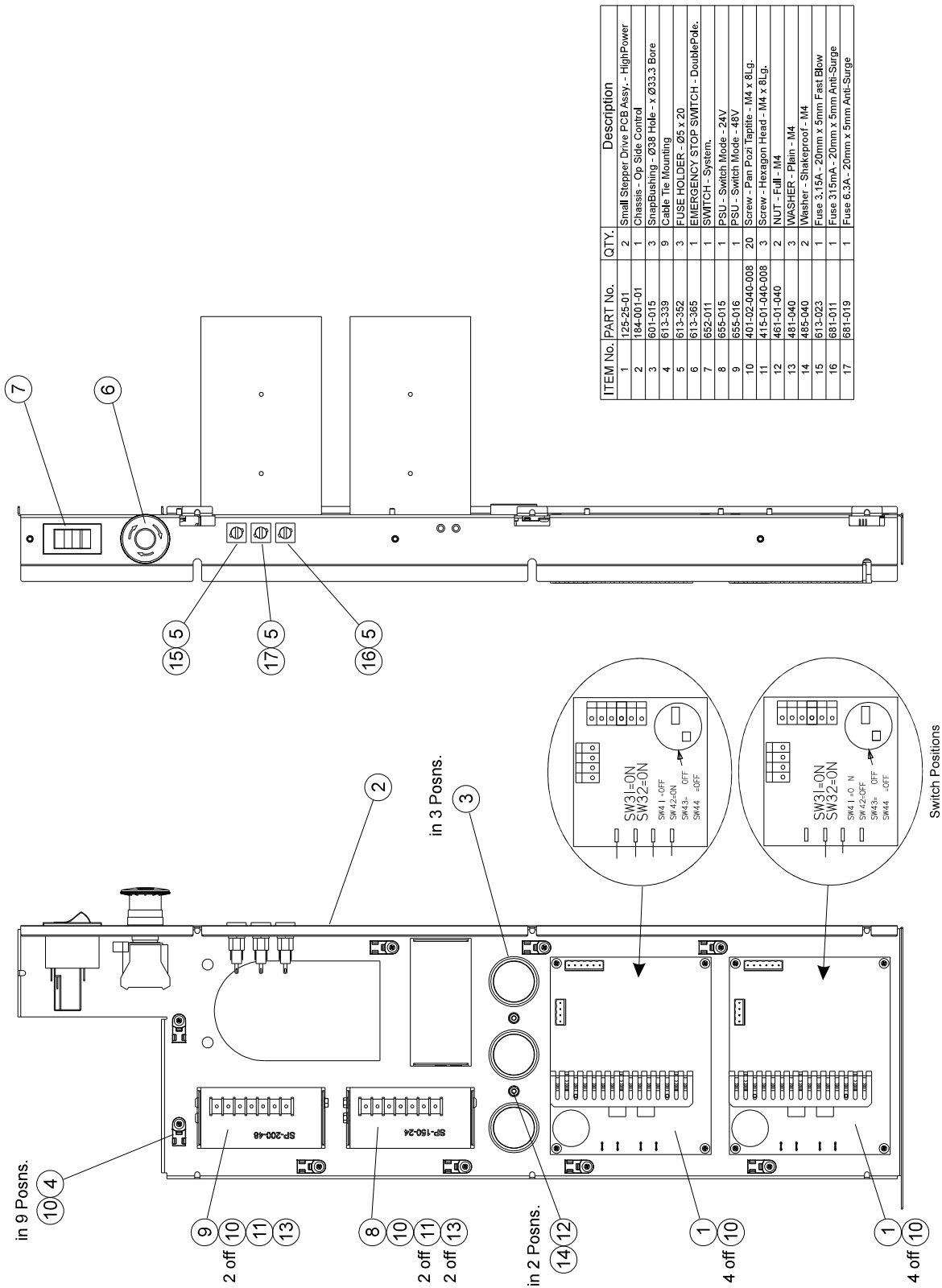
182-01-01 (Feed System Assy. - Long)

ITEM No.	PART No.	QTY.	DESCRIPTION
1	182-001-01	1	Feed Bed Frame - Long
2	182-002-01	1	Side Lay Frame - Long
3	182-004-01	1	Feed Bed - Short
4	182-005-01	1	Paper Guide - Long Lower
5	182-006-01	1	Paper Guide - Long Upper
6	182-008-02	1	Rear Input Panel - Anti-Static
7	182-009-01	2	Tie Bar - Feed Frame
8	182-010-01	1	Input Guide
9	182-011-01	1	Belt Roller Shaft - Idler
10	182-011-02	2	Belt Roller Shaft - Drive
11	182-014-01	4	Belt - Paper Transport - Long
12	182-014-02	1	Belt - Paper Transport - Medium
13	182-014-03	1	Belt - Paper Transport - Short
14	182-016-01	1	Cord Drive Spacer
15	182-017-01	1	Input Table Conduit
16	182-018-01	1	Spacer - Input Guide
17	182-019-01	4	Vac Relief Flap
18	182-022-01	2	Support Disk
19	182-023-01	2	Bracket - Symetric - Rear Panel
20	182-025-01	1	Alignment Plate
21	182-026-01	1	Cable Entry Plate
22	182-031-01	1	Support Tube
23	182-032-01	2	Support Bush - Flanged
24	182-02-01	1	Fan and Support Assembly - Long
25	182-03-01	1	Cord Drive Assembly
26	182-04-01	2	Cord Idler Assembly - Standard
27	182-04-02	1	Cord Idler Assembly - Short
28	182-07-01	1	Belt Support Roller Assembly
29	76-309	1	LEAD - Autofold / Autocreaser Link
30	601-122	1	Grommet
31	605-004	8	Thrust Washer - Ø8 x Ø15.88 x 0.79
32	605-049	7	Nylon Washer - Ø15 x Ø21 x 1
33	606-045	1	Delivery Grab Handle
34	613-138	1	Strain Relief Bush
35	613-388	1	Tie Wrap - Long
36	626-009	1	Anti - Static Spyder Bar - Female
37	401-02-040-006	36	Screw - Pan Pozi Taptite - M4 x 6 Lg.
38	401-02-040-010	2	Screw - Pan Pozi Taptite - M4 x 10 Lg.
39	402-02-030-008	11	Screw - Csk Hd. Taptite - M3 x 8 Lg.
40	403-01-060-010	2	Screw - Socket Cap Hd. - M6 x 10 Lg.
41	403-01-080-012	4	Screw - Socket Cap Hd. - M8 x 12 Lg.
42	404-01-080-020	2	Screw - Skt Csk Hd. - Flat Pt. - M8 x 20 Lg.
43	405-01-050-010	2	Screw - Skt Button Hd. - M5 x 10 Lg.
44	405-01-080-012	2	Screw - Skt Button Hd. - M8 x 12 Lg.
46	418-01-040-008	1	Earth Screw - Pan Pozi Taptite - M4 x 8 Lg.
47	481-040	2	WASHER - Plain M4
48	481-050	2	WASHER - Plain M5
49	481-060	2	WASHER - Plain M6
50	481-080	4	WASHER - Plain M8



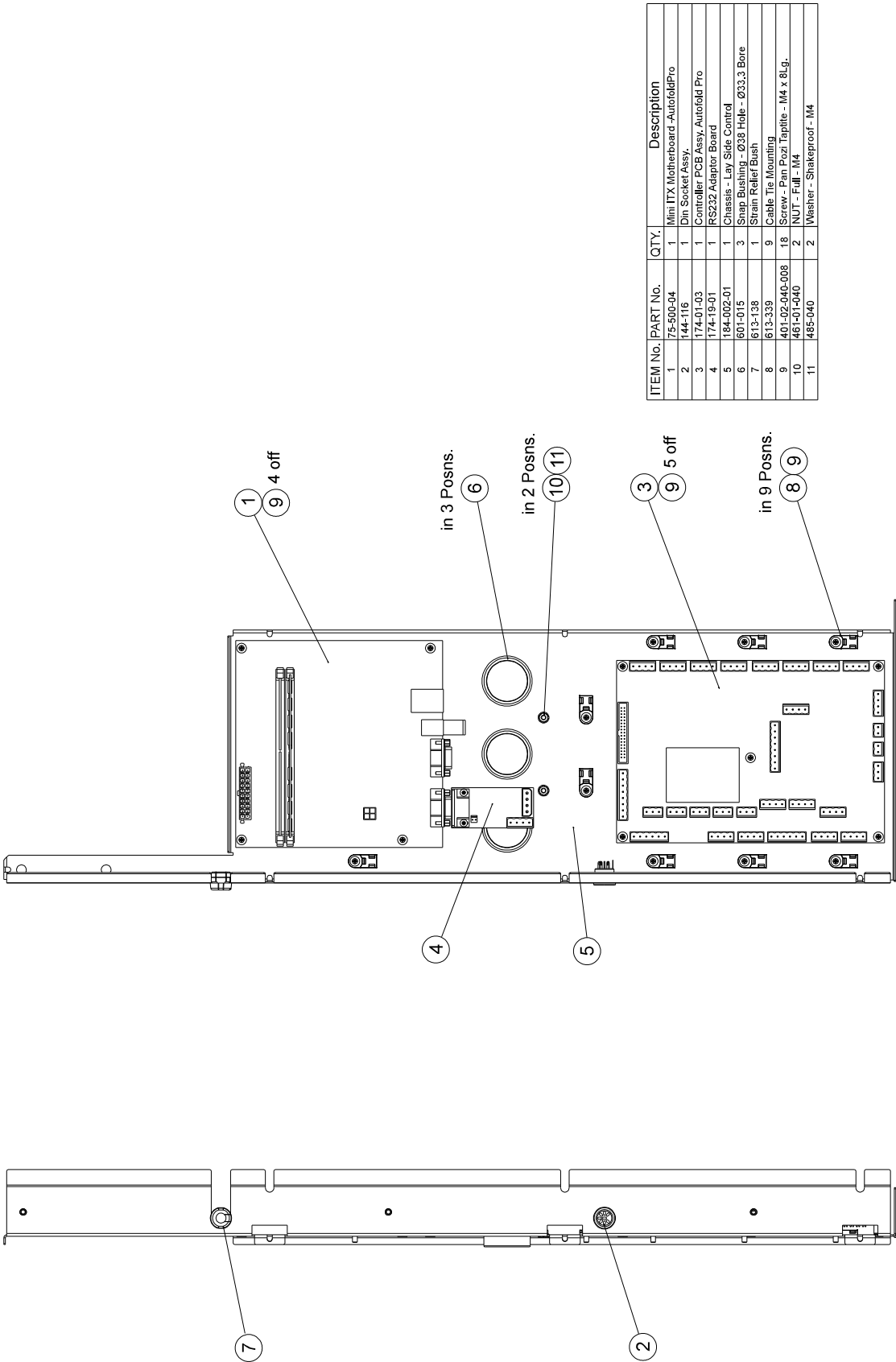
182-01-02 (Feed System Assy. - Short)

ITEM No.	PART No.	QTY.	DESCRIPTION
1	182-001-02	1	Feed Bed Frame -Short
2	182-002-02	1	Side Lay Frame - Short
3	182-004-03	1	Feed Bed - Short
4	182-005-02	1	Paper Guide - Short Lower
5	182-006-02	1	Paper Guide - Upper
6	182-008-02	1	Rear Input Panel - Anti-Static
7	182-009-01	2	Tie Bar - Feed Frame
8	182-010-01	1	Input Guide
9	182-011-01	1	Belt Roller Shaft - Idler
10	182-011-02	2	Belt Roller Shaft - Drive
11	182-014-02	4	Belt - Paper Transport - Medium
12	182-014-03	1	Belt - Paper Transport - Short
13	182-016-01	1	Cord Drive Spacer
14	182-017-01	1	Input Table Conduit
15	182-018-01	1	Spacer - Input Guide
16	182-019-01	3	Vac Relief Flap
17	182-022-01	2	Support Disk
18	182-023-01	2	Bracket - Symetric - Rear Panel
19	182-025-01	1	Alignment Plate
20	182-026-01	1	Cable Entry Plate
21	182-031-01	1	Support Tube
22	182-032-01	2	Support Bush - Flanged
23	182-02-02	1	Fan and Support Assembly - Short
24	182-03-01	1	Cord Drive Assembly
25	182-04-01	1	Cord Idler Assembly - Standard
26	182-04-02	1	Cord Idler Assembly - Short
27	182-07-01	1	Belt Support Roller Assembly
28	76-309	1	LEAD - Autofold / Autocreaser Link
29	601-122	1	Grommet
30	605-004	6	Thrust Washer - Ø8 x Ø15.88 x 0.79
31	605-049	6	Nylon Washer - Ø15 x Ø21 x 1
32	606-045	1	Delivery Grab Handle
33	613-138	1	Strain Relief Bush
34	613-388	1	Tie Wrap - Long
35	626-009	1	Anti - Static Spyder Bar - Female
36	401-02-040-006	31	Screw - Pan Pozi Taptite - M4 x 6 Lg.
37	402-02-030-008	1	Screw - Csk Hd. Taptite - M3 x 8 Lg.
38	401-02-040-010	2	Screw - Pan Pozi Taptite - M4 x 10 Lg.
39	402-02-030-008	6	Screw - Csk Hd. Taptite - M3 x 8 Lg.
40	403-01-060-010	2	Screw - Socket Cap Hd. - M6 x 10 Lg.
41	403-01-080-012	2	Screw - Socket Cap Hd. - M8 x 12 Lg.
42	404-01-080-020	2	Screw - Skt Csk Hd. - Flat Pt. - M8 x 20 Lg.
43	405-01-050-010	2	Screw - Skt Button Hd. - M5 x 10 Lg.
44	405-01-080-012	2	Screw - Skt Button Hd. - M8 x 12 Lg.
46	418-01-040-008	1	Earth Screw - Pan Pozi Taptite - M4 x 8 Lg.
47	481-040	2	WASHER - Plain M4
48	481-050	2	WASHER - Plain M5
49	481-060	2	WASHER - Plain M6
50	481-080	2	WASHER - Plain M8



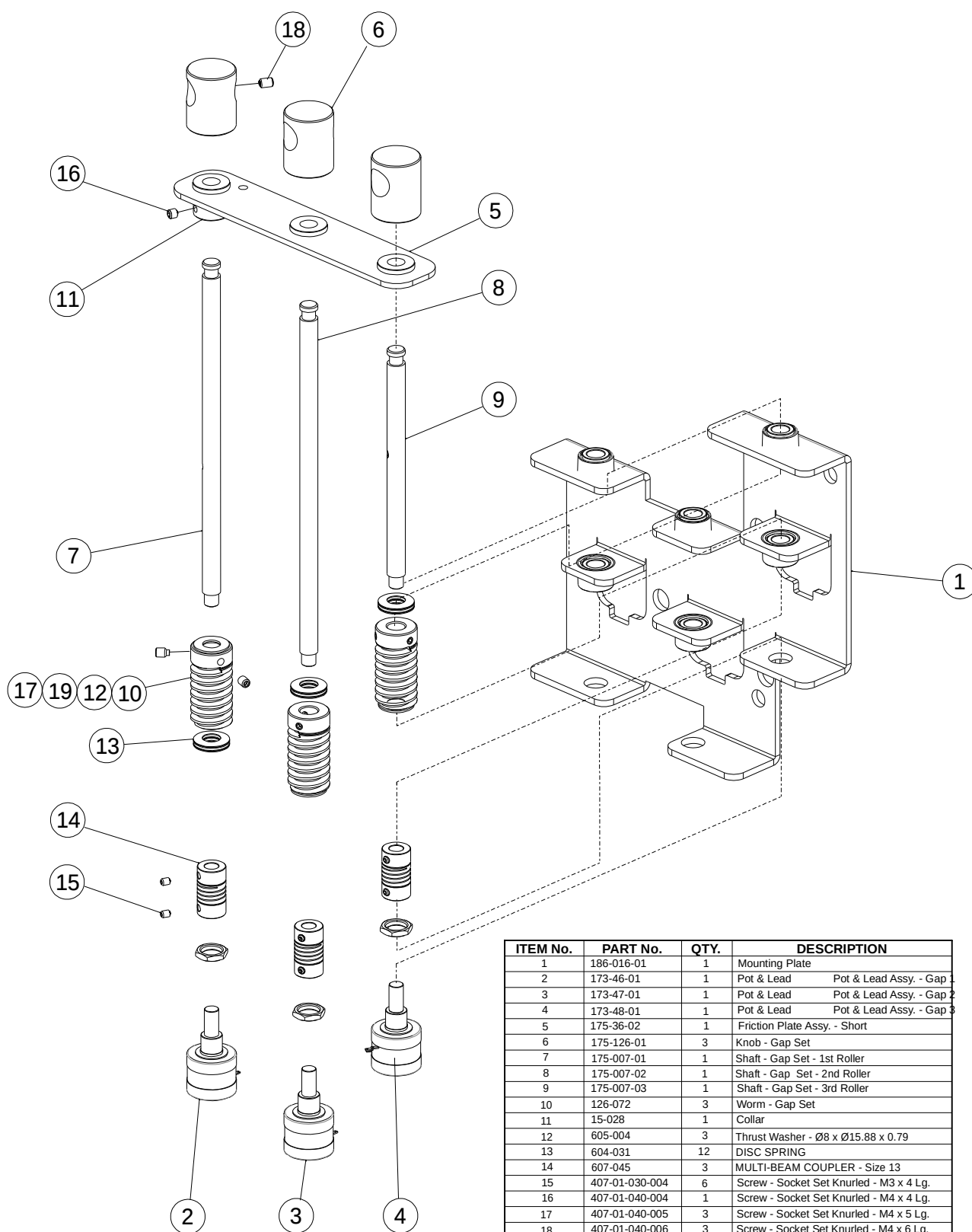
ITEM No.	PART No.	QTY.	Description
1	125-25-01	2	Small Stepper Drive PCB Assy. - HighPower
2	184-001-01	1	Chassis - Op Side Control
3	601-015	3	SnapBushing - Ø38 Hole - x Ø33.3 Bore
4	613-339	9	Cable Tie Mounting
5	613-352	3	FUSE HOLDER - Ø5 x 20
6	613-365	1	EMERGENCY STOP SWITCH - DoublePole.
7	652-011	1	SWITCH - System.
8	655-015	1	PSU - Switch Mode - 24V
9	655-016	1	PSU - Switch Mode - 48V
10	401-02-940-008	20	Screw - Pan Flt Taplite - M4 x 8lg.
11	415-01-040-008	3	Screw - Hexagon Head - M4 x 8lg.
12	461-01-040	2	NUT - Full - M4
13	481-040	3	WASHER - Plain - M4
14	485-040	2	Washer - Shakeproof - M4
15	613-023	1	Fuse 3.15A - 20mm x 5mm Fast Blow
16	613-023	1	Fuse 3.15mA - 20mm x 5mm Anti-Surge
17	661-019	1	Fuse 6.3A - 20mm x 5mm Anti-Surge

184-01-01 (Control System - Op Side)

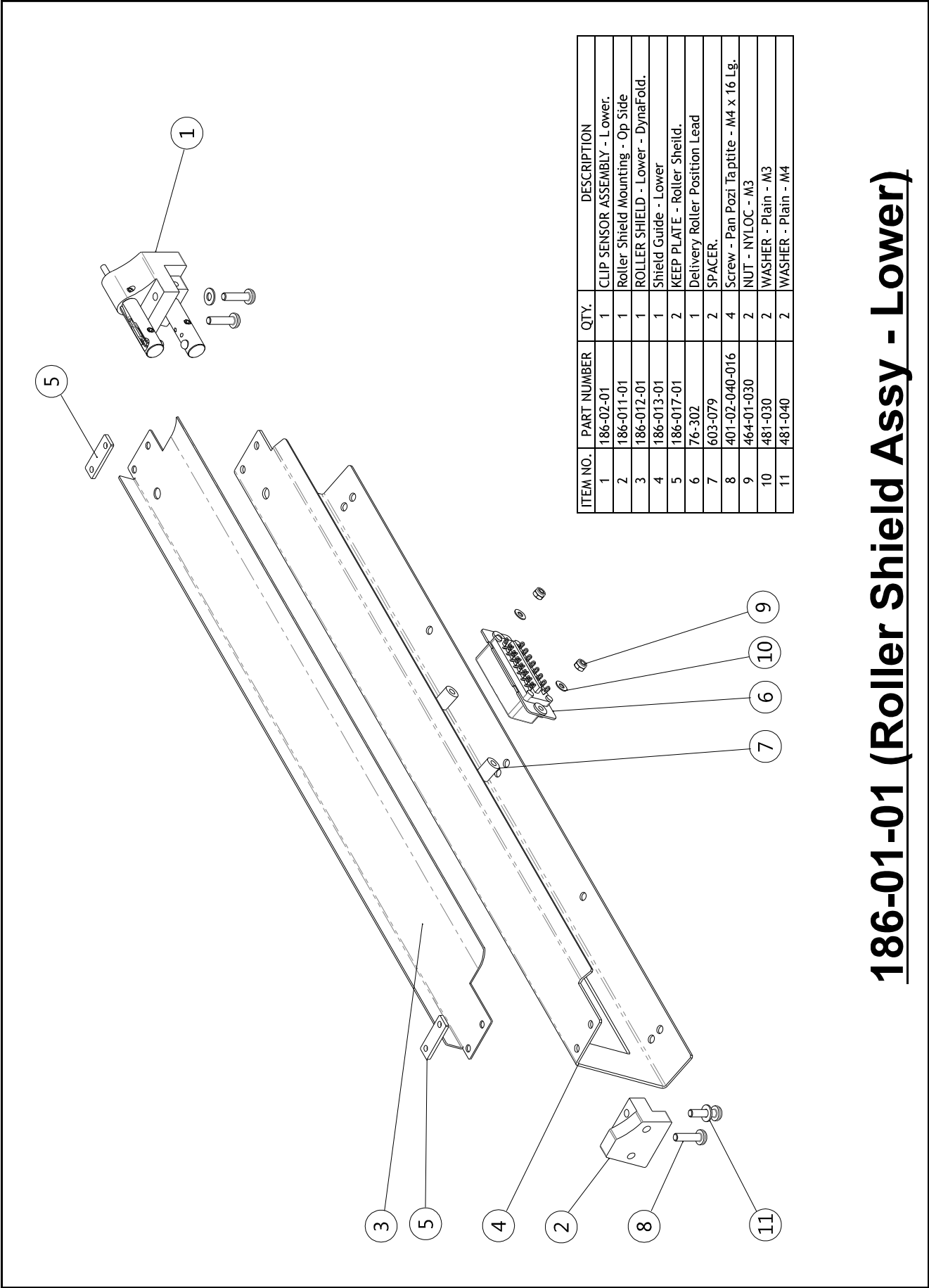


ITEM No.	PART No.	QTY.	Description
1	75-500-04	1	Mini ITX Motherboard - AutofoldPro
2	144-116	1	Din Socket Assy.
3	174-01-03	1	Controller PCB Assy Autofold Pro
4	174-19-01	1	RS232 Adaptor Board
5	184-002-01	1	Chassis - Lay Side Control
6	601-015	3	Snap Bushing - Ø38 Hole - Ø33.3 Bore
7	613-138	1	Strain Relief Bush
8	613-339	9	Cable Tie Mounting
9	401-02-040-008	18	Screw - Pan Pozl Tapble - M4 x 8Lg.
10	461-01-040	2	NUT - Full - M4
11	485-040	2	Washer - Shakeproof - M4

184-02-01 (Control System - Lay Side)



186-03-01 (Gap Set Assembly)



186-01-01 (Roller Shield Assy - Lower)

ITEM No.	PART No.	QTY.	DESCRIPTION
1	182-003-01	1	Centre Support
2	184-04-01	1	Fan Control Board Assy
3	613-339	1	CABLE TIE MOUNTING
4	401-02-030-008	2	Screw - Pan Pozil Tapitite - M3 x 8 Lg.
5	401-02-040-008	5	Screw - Pan Pozil Tapitite - M4 x 8 Lg.
6	403-01-040-010	6	SCREW - Socket Cap Head - M4 x 10 Lg.
7	481-030	2	WASHER - Plain - M3
8	481-040	6	WASHER - Plain - M4
9	76-277	1	Sensor & Lead Assy
10	76-282	1	FAN & LEAD ASSY.
11	76-281	1	FAN & LEAD ASSY.
12	76-283	1	FAN & LEAD ASSY.

1

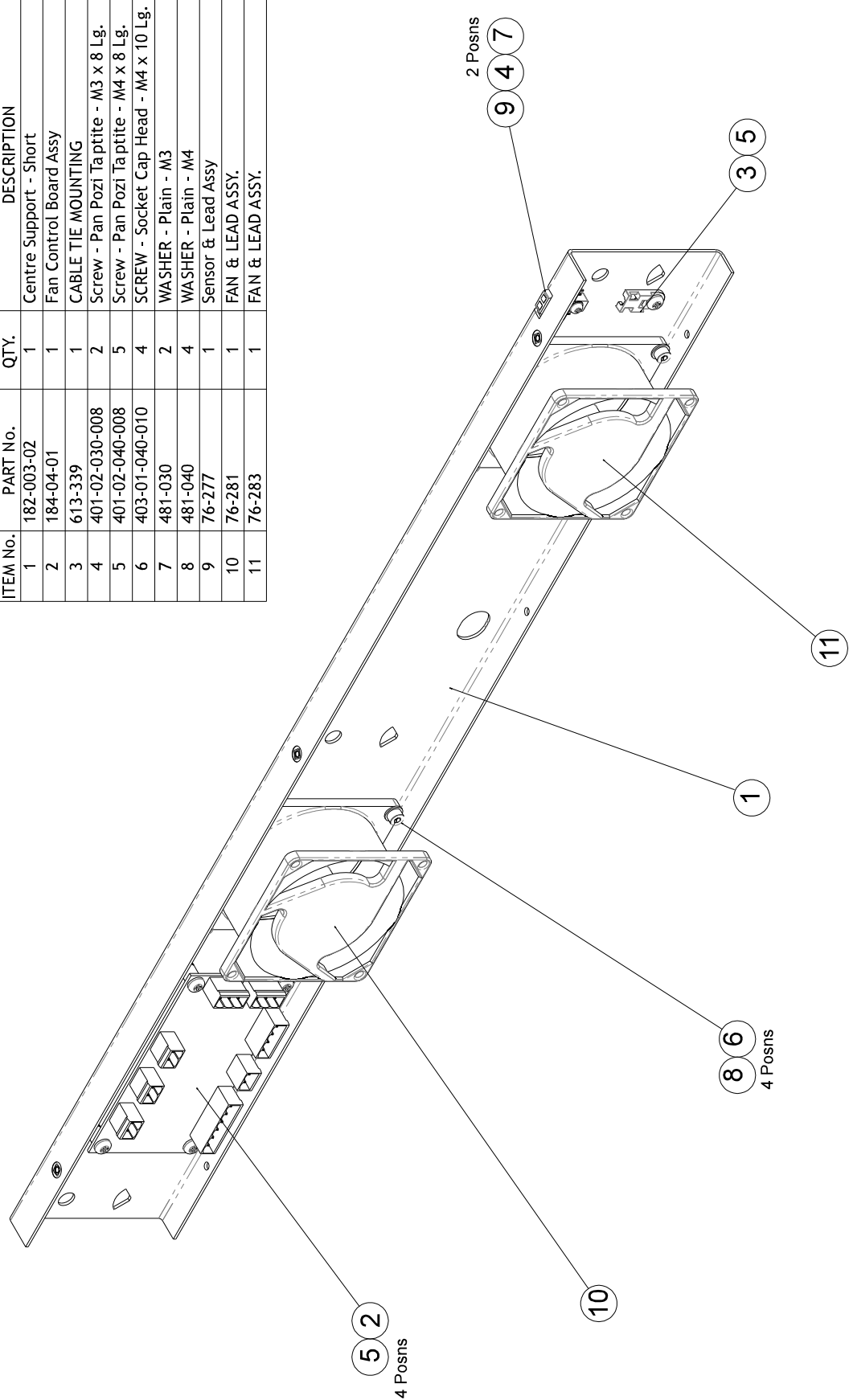
4 Posns
(2) (5)

6 Posns
(6) (11) (12)

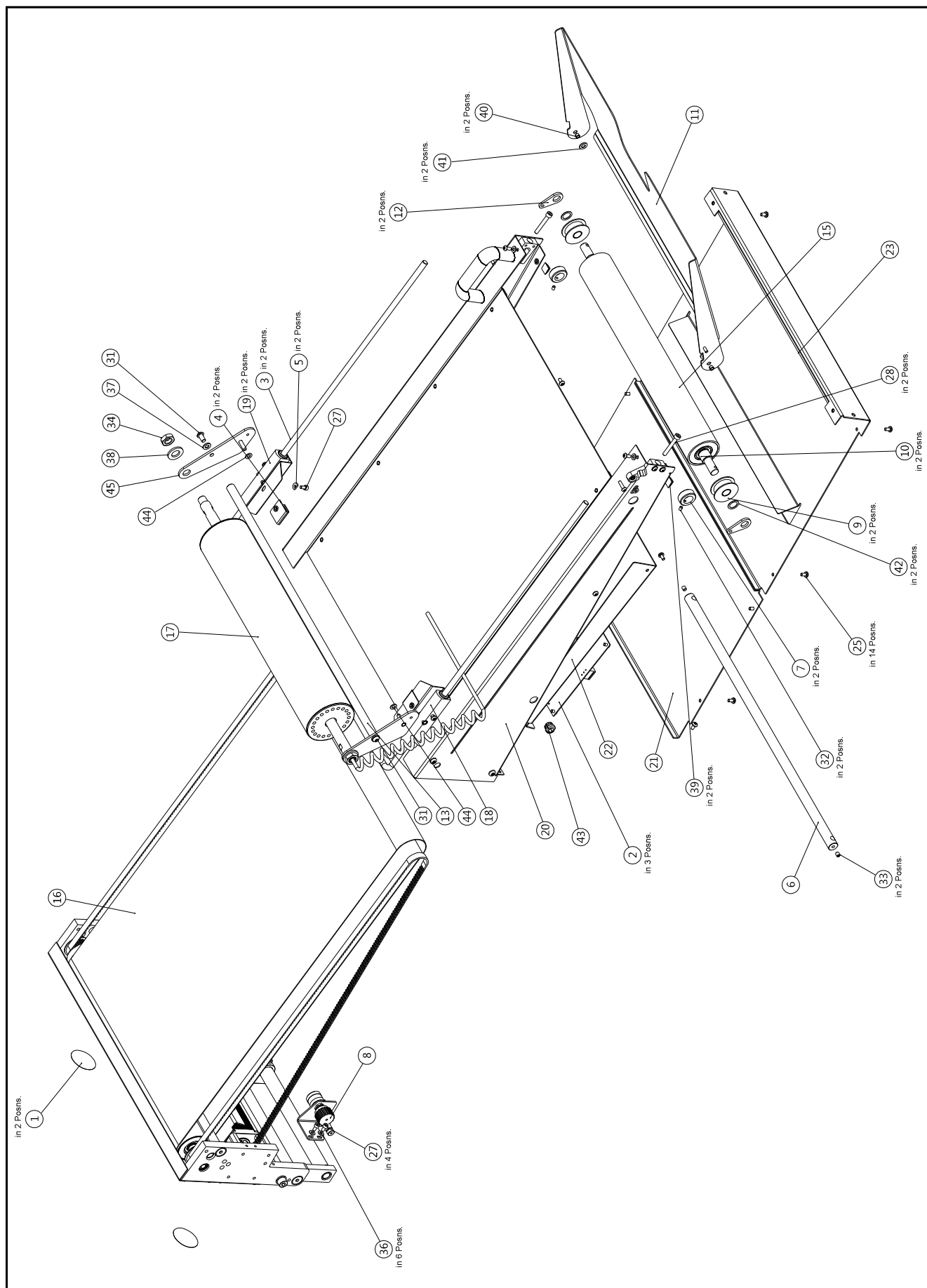
2 Posns
(9) (4) (7)

182-02-01 (Fan & Support Assy. - Long)

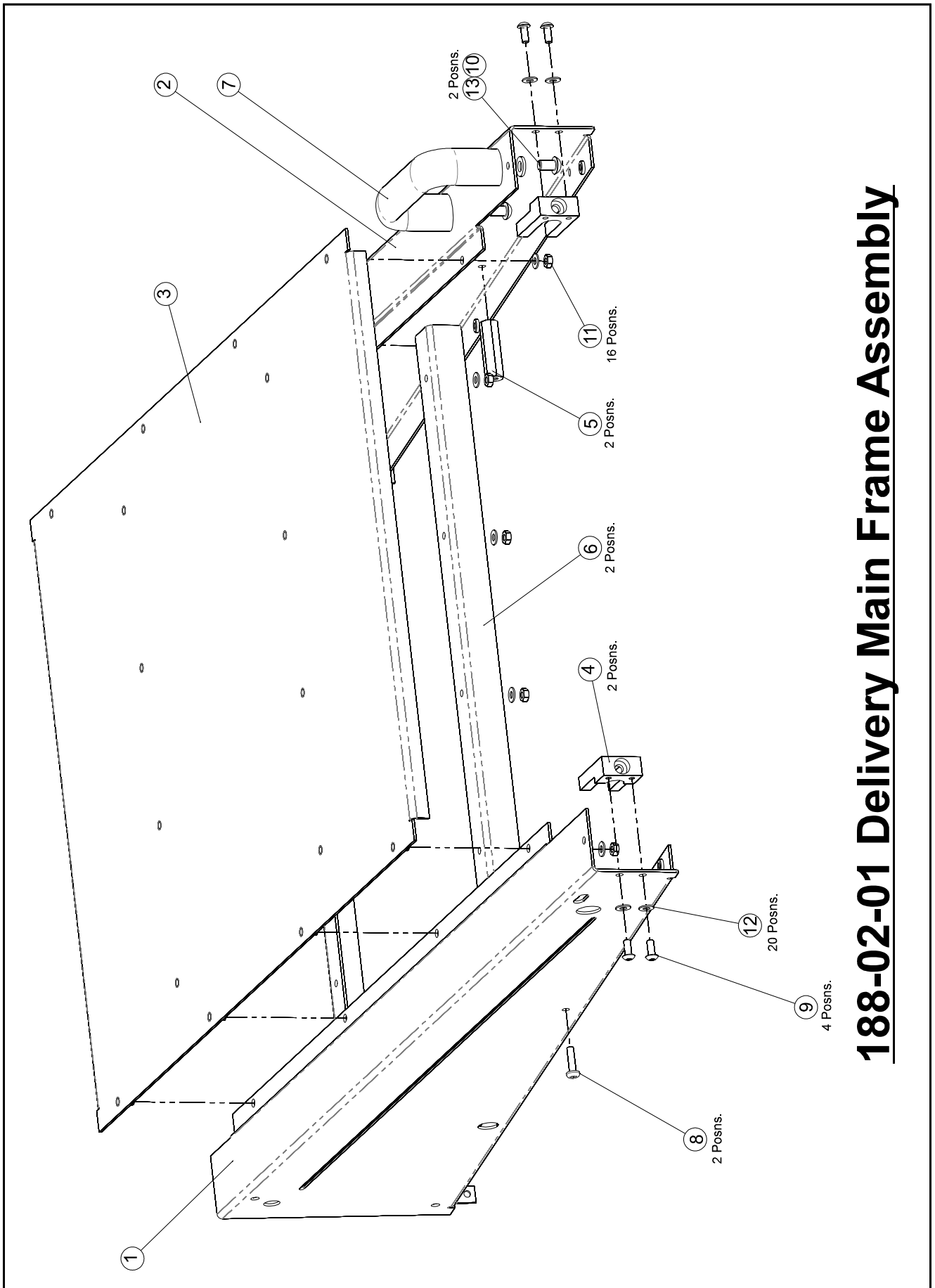
ITEM No.	PART No.	QTY.	DESCRIPTION
1	182-003-02	1	Centre Support - Short
2	184-04-01	1	Fan Control Board Assy
3	613-339	1	CABLE TIE MOUNTING
4	401-02-030-008	2	Screw - Pan Pozi Taplite - M3 x 8 Lg.
5	401-02-040-008	5	Screw - Pan Pozi Taplite - M4 x 8 Lg.
6	403-01-040-010	4	SCREW - Socket Cap Head - M4 x 10 Lg.
7	481-030	2	WASHER - Plain - M3
8	481-040	4	WASHER - Plain - M4
9	76-277	1	Sensor & Lead Assy
10	76-281	1	FAN & LEAD ASSY.
11	76-283	1	FAN & LEAD ASSY.



182-02-02 (Fan & Support Assy. - Short)

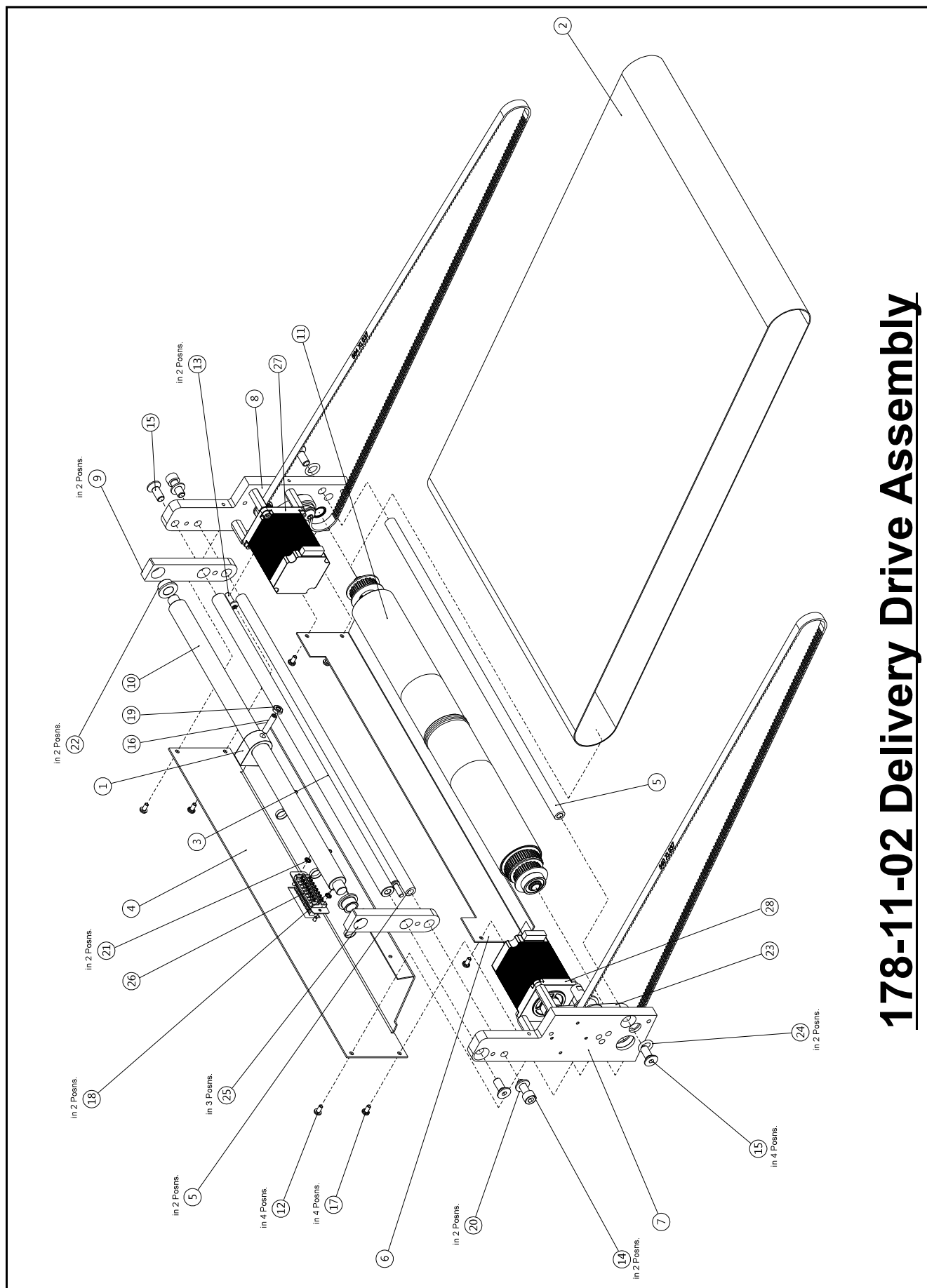


ITEMNo.	PARTNo.	QTY.	DESCRIPTION
1	173-018	2	DO NOT TOUCH_LABEL
2	174-06-01	3	Small Stepper Driver PCB Assy.
3	178-022-01	2	Roller Guide Bar
4	178-028-01	2	Belt Clamp plate - Delivery
5	178-029-01	2	D - Spacer - Belt Clamp
6	178-032-01	1	Roller Pivot Shaft - Delivery
7	178-033-01	2	COLLAR - Wheel Spacer.
8	178-04-01	1	Positioning Pot Assy
9	178-05-02	2	Idler Pulley Assy - Size 20
10	178-057-01	2	SPACER.
11	178-078-01	1	Stacker Pivot Plate
12	178-079-01	2	Stacker Lock Plate
13	178-081-01	1	Delivery Roller Tie Bar
14	178-082-01	1	Stacker Plate Clip
15	178-09-01	1	Delivery Idler Roller Assy
16	178-11-02	1	Delivery Drive Assy
17	178-16-01	1	Driven Roller 3"
18	178-17-01	1	Roller Guide Assy - Lay Side
19	178-17-02	1	Roller Guide Assy - Op Side
20	188-02-01	1	Delivery Main Frame Assy.
21	188-002-01	1	Delivery Stepper Cover
22	188-003-01	1	Inner Catch Tray
23	188-004-01	1	Delivery - Undercover
24	401-02-040-006	12	Screw - Pan Pozi Taptite - M4 x 6 Lg.
25	401-02-040-008	17	Screw - Pan Pozi Taptite - M4 x 8 Lg.
26	401-02-050-016	4	Screw - Pan Pozi Taptite - M5 x 16 Lg.
27	403-01-040-008	4	SCREW - Cap Hd. - M4 x 8Lg.
28	403-01-050-035	2	SCREW - Socket Cap Head - M5 x 35Lg.
29	405-01-040-010	2	SCREW - Socket Button Head - M4 x 10Lg.
30	405-01-040-016	2	SCREW - Socket Button Head - M4 x 16Lg.
31	405-01-060-012	2	SCREW - Socket Button Head - M8 x 12Lg.
32	409-01-040-006	2	Screw - Skt Set Screw - Flat Pt. - M4 x 6Lg.
33	409-01-050-006	2	Screw - Skt Set Screw - Flat Pt. - M5 x 6Lg.
34	462-01-120	1	NUT - Half - M12
35	464-01-040	3	NUT - NYLOC - M4
36	481-040	8	WASHER - Plain - M4
37	481-060	2	WASHER - Plain - M6
38	481-120	1	WASHER - Plain - M12
39	601-018	2	Square Foot - 12.6mm
40	603-041	2	SPIROLSPACER - Ø4 x Ø5.65 x 4 Lg.
41	605-021	2	Thrush Washer - Ø8 x Ø15.88 x 0.79
42	605-022	2	NYLON WASHER - Ø12.2 X 17.1 X 0.79
43	613-219	1	STRAIN RELIEF BUSH
44	481-050	2	WASHER - Plain - M5
45	178-076-02	1	Roller Guide Plate - Lay Side



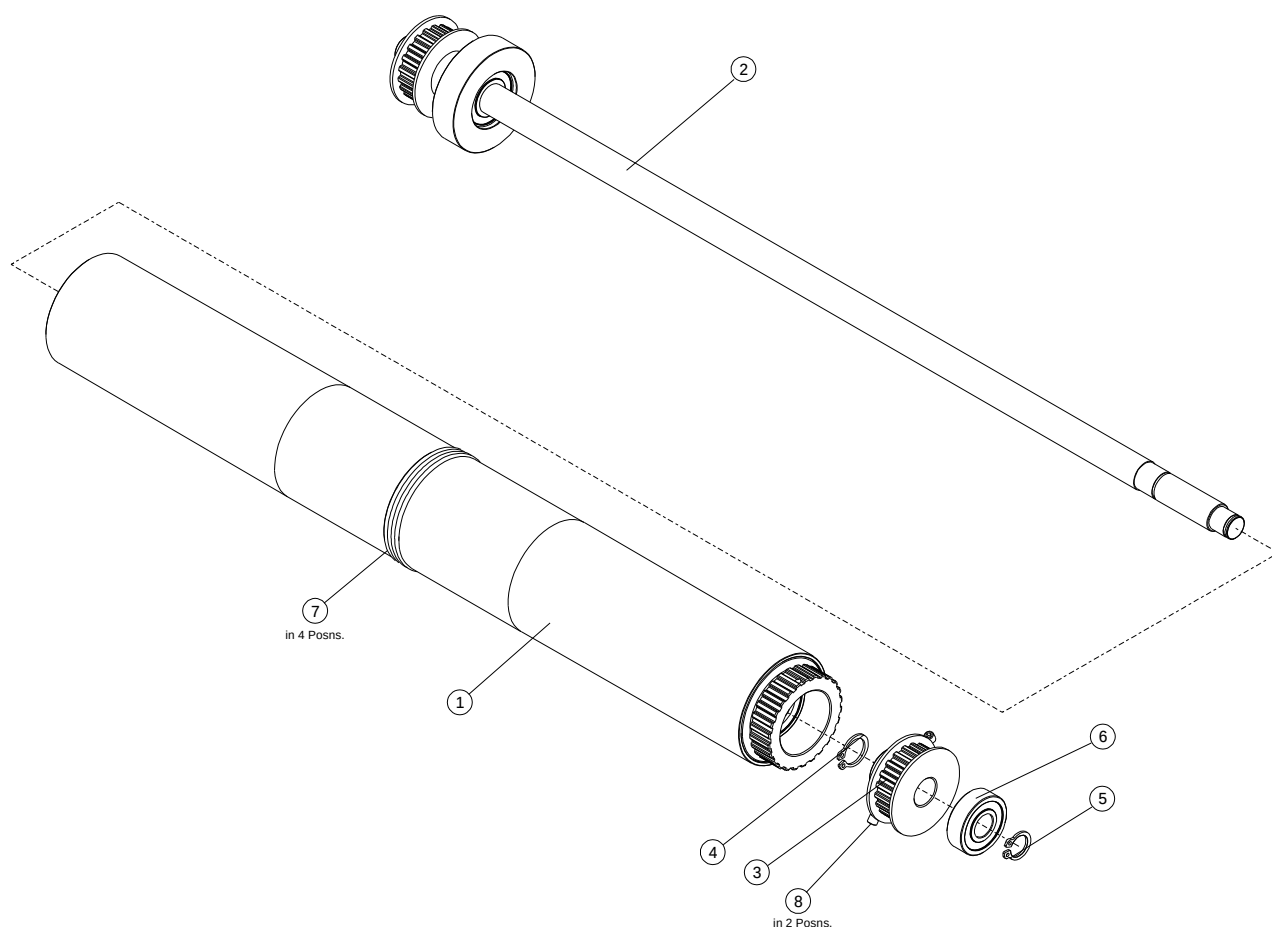
188-02-01 Delivery Main Frame Assembly

ITEM No.	PART No.	QTY.	DESCRIPTION
1	188-001-01	1	Delivery - Lay Side
2	188-001-02	1	Delivery - Op. Side
3	178-002-01	1	Conveyor Bed
4	178-006-02	2	Tension Block - Dynafold
5	178-030-01	2	HEX PILLAR - M8 x 30 Lg.
6	178-083-01	2	STIFFENER - Delivery Conveyor Bed.
7	606-046	1	Grab Handle
8	401-02-040-016	2	Screw - Pan Pozi Taptite - M4 x 16 Lg.
9	405-01-040-010	4	SCREW - Socket Button Head - M4 x 10 Lg.
10	405-01-060-010	2	SCREW - Socket Button Head - M6 x 10 Lg.
11	461-01-040	16	NUT - Full - M4
12	481-040	20	WASHER - Plain - M4
13	481-060	2	WASHER - Plain - M6



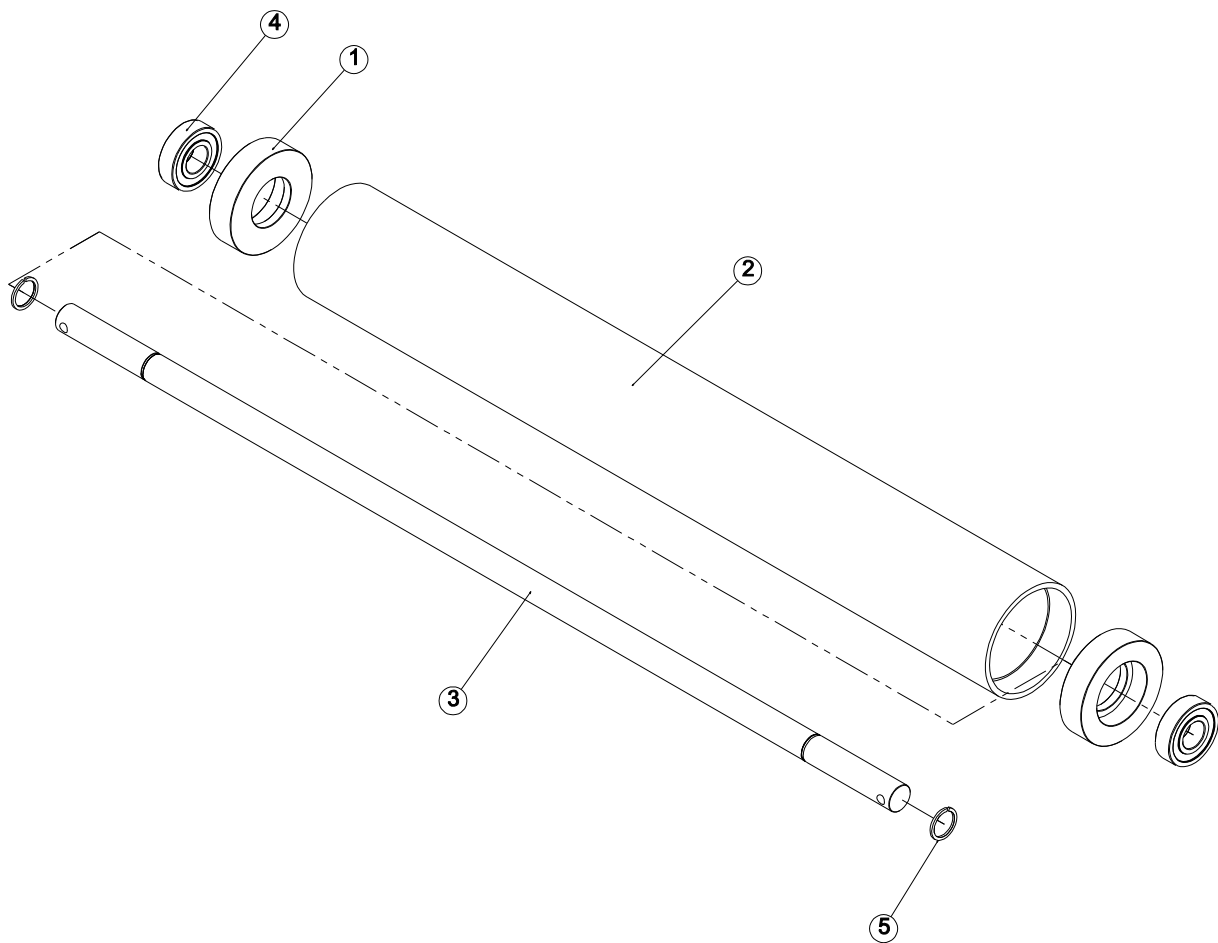
178-11-02 Delivery Drive Assembly

ITEM No.	PART No.	QTY.	DESCRIPTION
1	121-013-02	1	GAS STRUT EYE.
2	128-026-03	1	385 Belt - 2 Ply - Paper Transport
3	141-003-04	1	Tie Bar - Gas Spring - Digifold Mk2
4	178-005-02	1	Delivery End Cover
5	178-026-02	1	Sheet Guide
6	178-025-01	2	Tie Bar - Drive Assy
7	178-03-03	1	Stepper Plate Assy - Op Side
8	178 03 04	1	Stepper Plate Assy - Lay Side
9	178-051-01	2	Delivery Beam Extension
10	178-052-01	1	Action Shaft- Beam Extension
11	178-06-02	1	Crowned Drive Shaft Assy
12	401-02-040-008	4	Screw - Pan Pozi Taptite - M4 x 8 Lg.
13	401-02-050-016	2	Screw - Pan Pozi Taptite - M5 x 12 Lg.
14	403-01-080-020	2	SCREW - Socket Cap Head - M8 x 20 Lg.
15	404-01-080-020	4	SCREW - Socket Countersunk Head - M8 x 20 Lg.
16	409-01-060-025	1	Screw - Skt Set Screw - Flat Pt. - M6 x 25 Lg.
17	418-01-040-008	4	Earthing Screw - Pan Pozi Taptite - M4 x 8 Lg.
18	461-01-040	2	NUT - Full - M4
19	462-01-060	1	NUT - Half - M6
20	481-080	2	WASHER - Plain - M8
21	485-030	2	M3 Washer Shakeproof- Ext
22	602-172	2	Flanged Iglidur Bush - Ø12 x Ø16 x 10
23	607-005	1	100 XL Timing Belt
24	609-029	2	'O' Ring Ø8 x Ø3
25	650-028	3	CABLE TIE MTG. - Push Fit.
26	76-260	1	Delivery Connector & Lead Assembly
27	76-258	1	BELT DRIVE MOTOR
28	76-259	1	ROLLER POSITION MOTOR



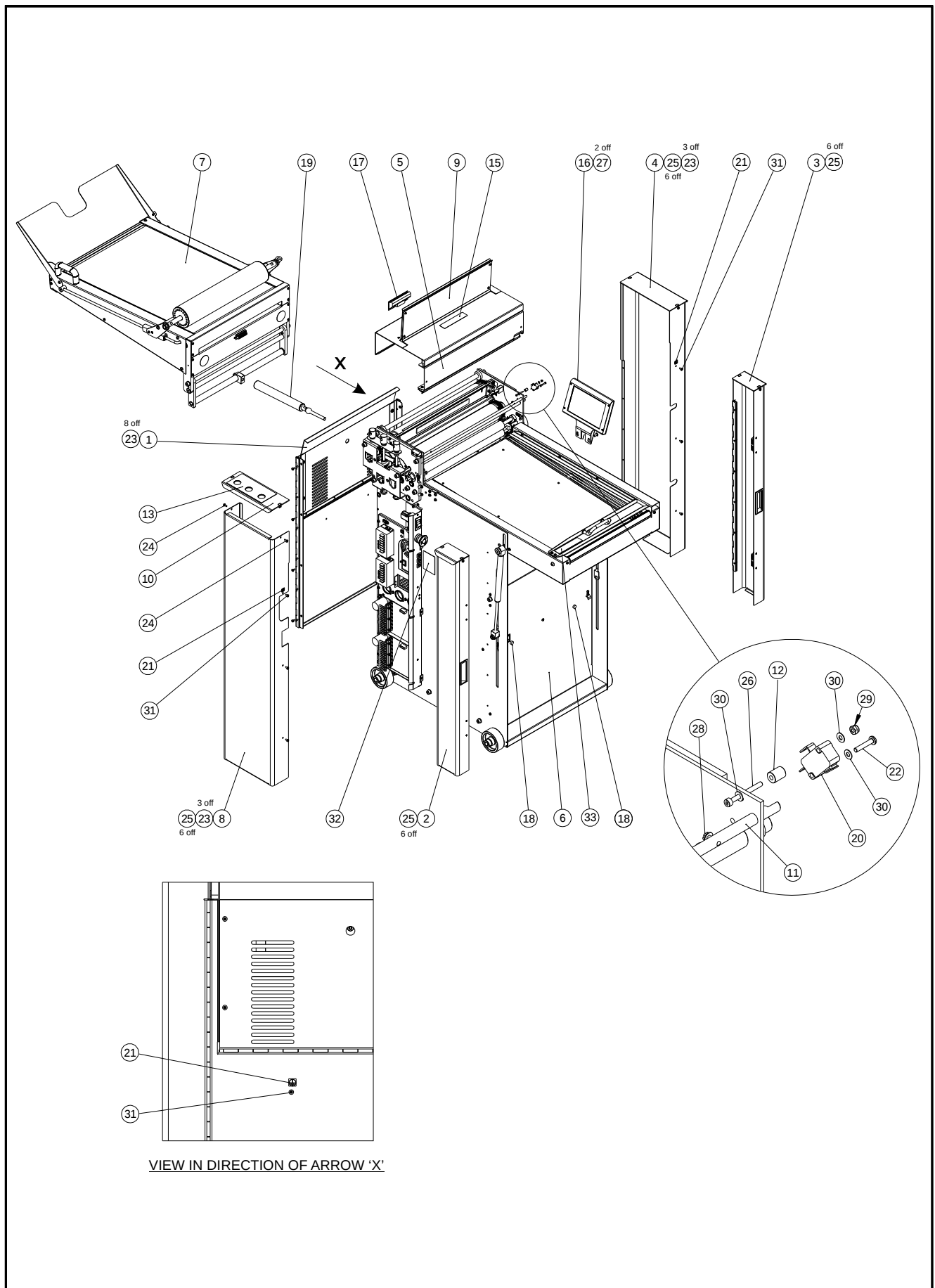
ITEMNo.	PARTNo.	QTY.	DESCRIPTION
1	178-07-02	1	Crowned Roller Assy
2	178-08-02	1	Crowned Roller Shaft Assy
3	178-027-01	1	Roller Drive Pulley - 20XL
4	615-015	1	CIRCLIP - External - Ø12
5	615-010	1	CIRCLIP - External - Ø10
6	602-001	1	BEARING - Deep Groove Ball - 6000-ZZ
7	609-031	4	'O' Ring
8	409-01-040-004	2	Screw - Skt Set Screw - Flat Pt. - M4 x 4Lg.

178-06-02 (Crowned Drive Shaft Assy)



ITEMNo.	PARTNo.	QTY.	DESCRIPTION
1	128-055	2	Bearing Plug - Idler Drum
2	128-058-02	1	Extended Belt Drum - Idler
3	178-021-01	1	Delivery Idler Shaft
4	602-003	2	BEARING - Deep Groove Ball - 6001-ZZ
5	615-039	2	RETAINING RING - External - Ø12

178-09-01 (Delivery Idler Roller Assy)



ITEM No.	PART No.	QTY.	Description
1	183-01-02	1	Rear Panel - With Access Door
2	183-02-01	1	Column Assy - Op Side
3	183-03-01	1	Column Assy - Lay Side
4	183-05-01	1	Door Assembly - Lay Side
5	183-06-01	1	Entry Guard Assy.
6	185-01-01	1	Dynafold Mechanism
7	188-01-01	1	Delivery Assembly
8	183-002-01	1	Door - Op Side
9	183-021-01	1	Top Cover - Dynafold
10	183-007-01	1	Top Cover - Op Side Door
11	173-012-01	1	Shaft - Top Cover
12	173-013-01	1	Spacer
13	183-009-01	1	Gap Set Label
14	181-011-01	1	Label - Autofold Pro
15	123-059	1	Label - Safety Warnings
16	75-06-02	1	Touch Screen Assembly - 7" (New Controller)
17	601-134	1	Handle - Pocket Pull
18	601-166	2	Grommet Foot
19	604-103	1	Gas Spring - Locking
20	613-351	1	Microswitch
21	613-498	3	Earth Label
22	401-02-030-016	1	Screw - Pan Pozi Taptite - M3 x 16 Lg.
23	401-02-040-008	16	Screw - Pan Pozi Taptite - M4 x 8 Lg.
24	401-02-040-010	2	Screw - Pan Pozi Taptite - M4 x 10 Lg.
25	402-02-040-008	24	Screw - Csk Head. Taptite - M4 x 8 Lg.
26	403-01-030-030	1	Screw - Socket Cap Head. - M3 x 30 Lg.
27	405-01-060-010	2	Screw - Socket Button Head. - M6 x 10 Lg.
28	406-01-040-006	2	Screw - Tamperproof - M4 x 6 Lg.
29	464-01-030	1	NUT - NYLOC - M3
30	481-030	3	WASHER - Plain - M3
31	418-01-040-008	3	Earth Screw - Pan Pozi Taptite - M4 x 8 Lg.
32	183-023-01	1	Label UL- Fuse Ratings - Autofold Pro
33	123-038	2	Label - Anti-Static / Sharp Blades