

PITNEY BOWES
Sure-Feed Engineering

ROTARY INSERTER 10X13

Parts Manual



SURE-FEED ENGINEERING

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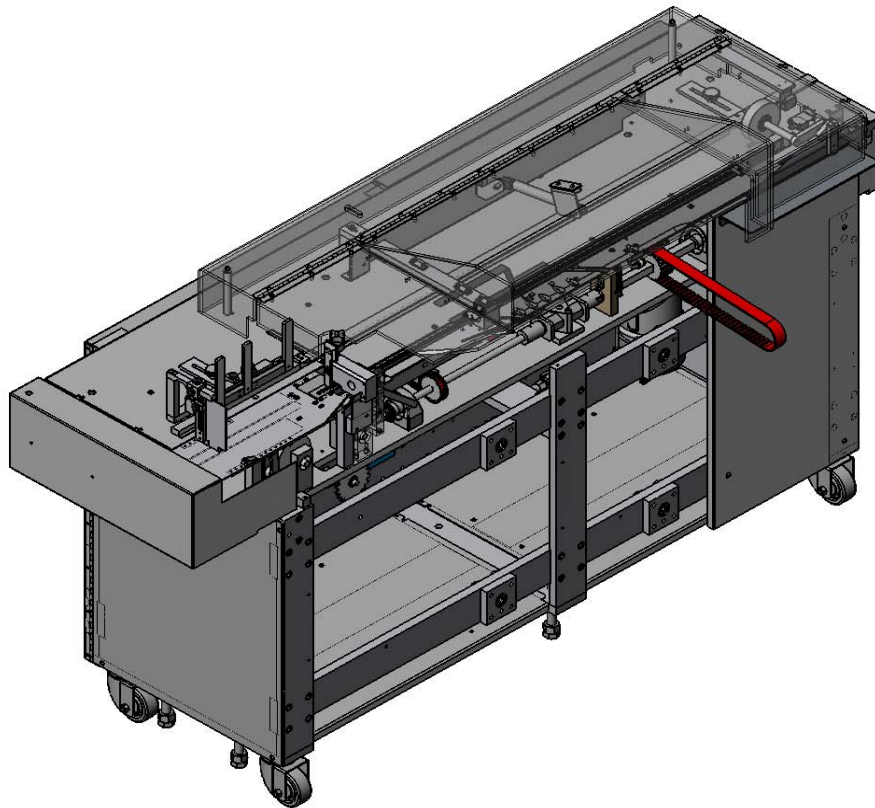
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FRONT TABLE ***10X13***

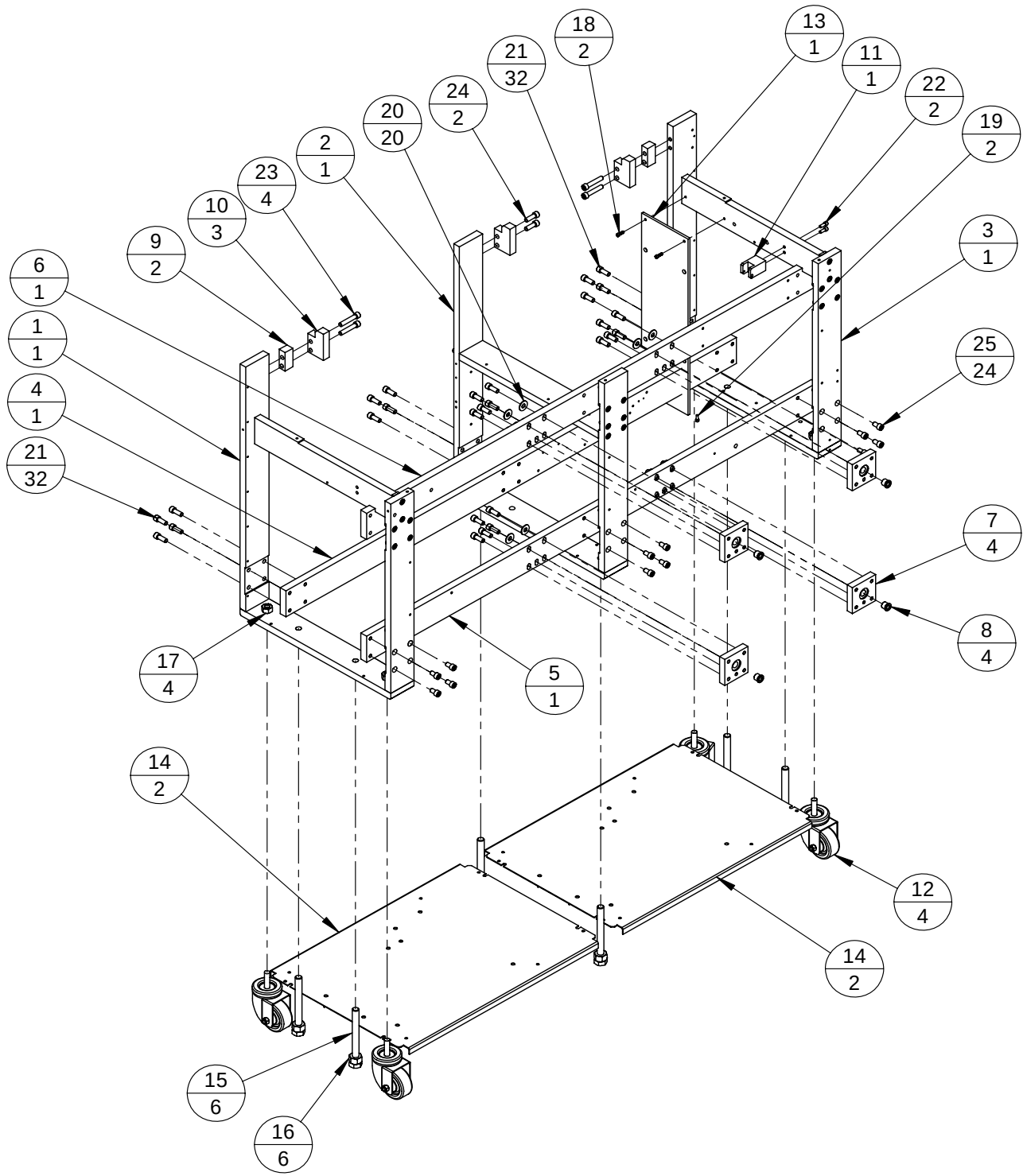


**FRONT TABLE - FRAME ASSEMBLY (Fig. 1-1)
(18020-002)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18020-264	1	ASSEMBLY, RH LEG
2	18020-265	1	ASSEMBLY, CENTER LEG
3	18020-266	1	ASSEMBLY, LH LEG
4	18008-040	1	BAR, LOWER FRONT BRACE
5	18008-039	1	BAR, LOWER REAR BRACE
6	18008-038	1	BAR, UPPER REAR BRACE
7	18011-011	4	BLOCK, COLLATOR ALIGNMENT
8	99006-007	4	LINEAR LOCATING PIN
9	18012-018	2	SPACER, FRONT TABLE SUPPORT
10	18007-044	3	BLOCK, TABLE SUPPORT
11	18007-038	1	BLOCK, ACTUATOR MTG.
12	99010-005	4	CASTOR, 1/2-13 STEM
13	18011-037	1	PLATE, WATER BOTTLE MTG.
14	18013-072	2	COVER, LOWER FLOOR
15	-	6	BOLT, HEX HEAD, 5/8-11 X 6
16	-	6	NUT, HEX, 5/8-11
17	-	4	NUT, HEX, 1/2-13
18	-	2	SCREW, SKT HEAD, #10-24 X 5/8
19	-	2	SCREW, SKT HEAD, #10-24 X 1/2
20	-	20	WASHER, FLAT, 3/8
21	-	32	BOLT, SKT HEAD, 3/8-16 X 1
22	-	2	BOLT, SKT HEAD, 1/4-20 X 5/8
23	-	4	BOLT, SKT HEAD, 3/8-16 X 1-1/2
24	-	2	BOLT, SKT HEAD, 3/8-16 X 1-1/8
25	-	24	BOLT, SKT HEAD, 3/8-16 X 3/4

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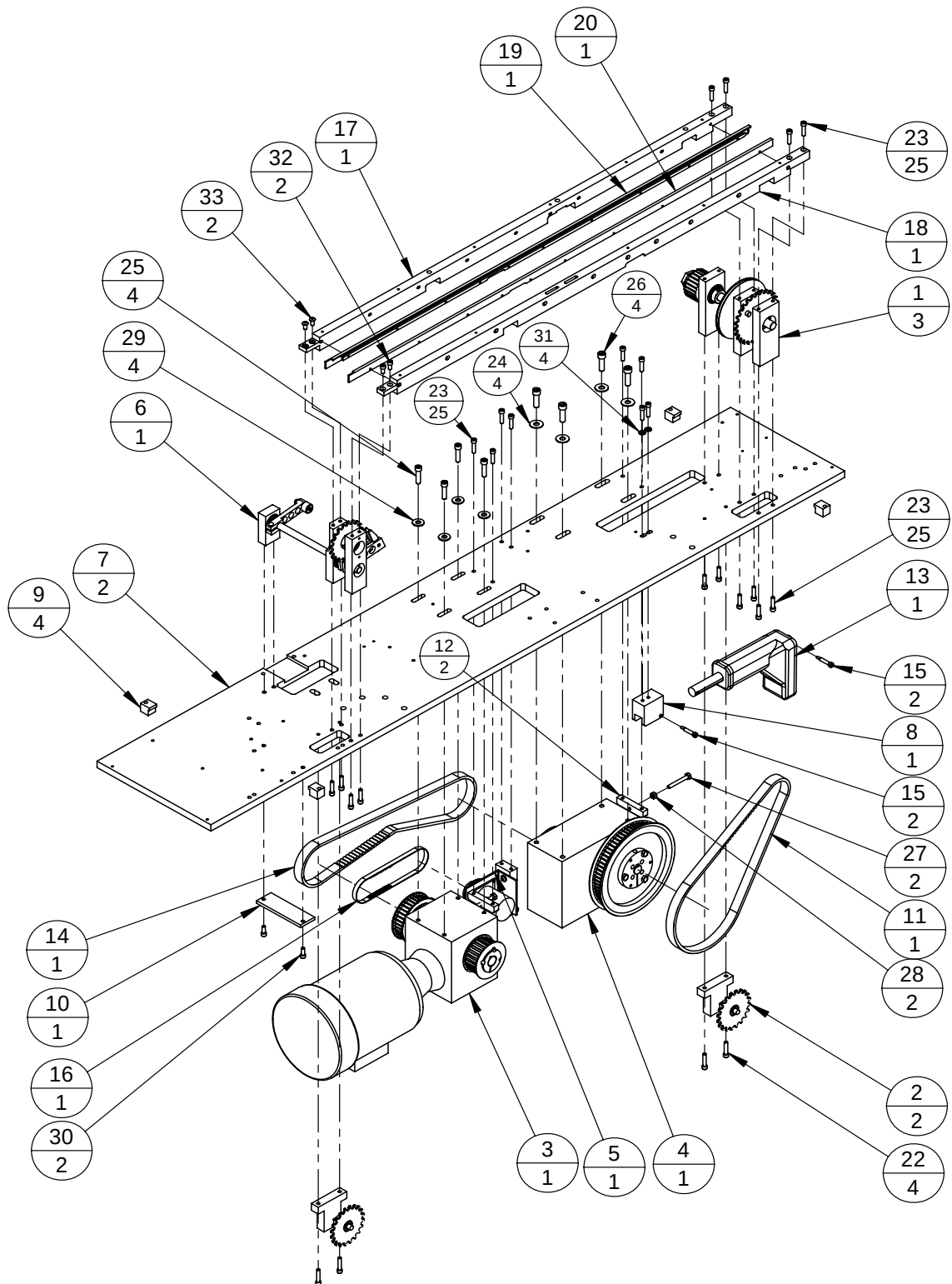


FRONT TABLE (Fig. 1-2)
ENVELOPE CHAIN DRIVE ASSEMBLY (18020-384)

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 1-4	1	ASSEMBLY, CHAIN DRIVE (18020-267)
2	SEE FIG. 1-5	2	ASSEMBLY, CHAIN TENSIONER (18020-058)
3	SEE FIG. 1-3	1	ASSY, REDUCE - MOTOR COMBO, 16K (18020-385)
4	SEE FIG. 1-3	1	ASSEMBLY, INDEXING BOX (18020-057)
5	SEE FIG. 1-5	1	ASSEMBLY, TENSIONER W/ ENCODER (18020-386)
6	SEE FIG. 1-4	1	ASSEMBLY, RH JAW OPENER (18020-011)
7	18011-028	1	PLATE, FRONT TABLE
8	18007-091	1	BLOCK, ACTUATOR MTG.
9	18011-010	4	BLOCK, GIB, DRIVE PLATE GUIDE
10	18007-105	1	BLOCK, FRONT TABLE STOP
11	99000-016	1	BELT, TIMING, 920-8M-20
12	18007-078	2	BLOCK, TAKE UP
13	99014-002	1	LINEAR ACTUATOR, 4"
14	99000-055	1	BELT, TIMING, 1040-8M-20 SH
15	99033-001	1	SHOULDER BOLT, 1/4 X 1
16	99000-336	1	BELT, TIMING, 170XL025
17	18003-019	1	BAR, CHAIN GUIDE SUPPORT
18	18003-021	1	BAR, CHAIN GUIDE SUPPORT W/ SLOT
19	18005-039	1	GUIDE, ENVELOPE CHAIN, LH
20	18005-038	1	GUIDE, ENVELOPE CHAIN, RH
21	18014-009	1	ASSY, ENVELOPE GRIPPER CHAIN (NOT SHOWN)
22	-	4	BOLT, SKT HEAD, 1/4-20 X 1-1/8
23	-	24	BOLT, SKT HEAD, 1/4-20 X 1
24	-	4	WASHER, FLAT, 3/8
25	-	4	BOLT, SKT HEAD, 5/16-18 X 1-1/4
26	-	4	BOLT, SKT HEAD, 3/8-16 X 1-1/4
27	-	2	BOLT, HEX HEAD, 1/4-20 X 3/4
28	-	2	NUT, HEX, 1/4-20
29	-	4	WASHER, FLAT, 5/16
30	-	2	BOLT, SKT HEAD, 1/4-20 X 5/8
31	-	2	WASHER, FLAT, 1/4
32	-	2	BOLT, SKT HEAD, 1/4-20 X 1/2
33	-	2	BOLT, BUTTON HEAD, 1/4-20 X 1/2

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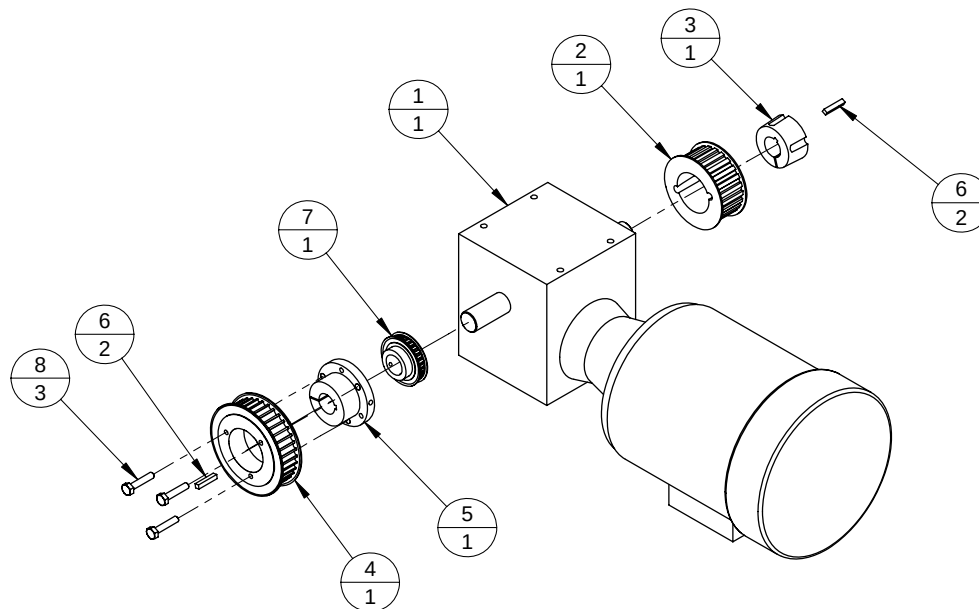
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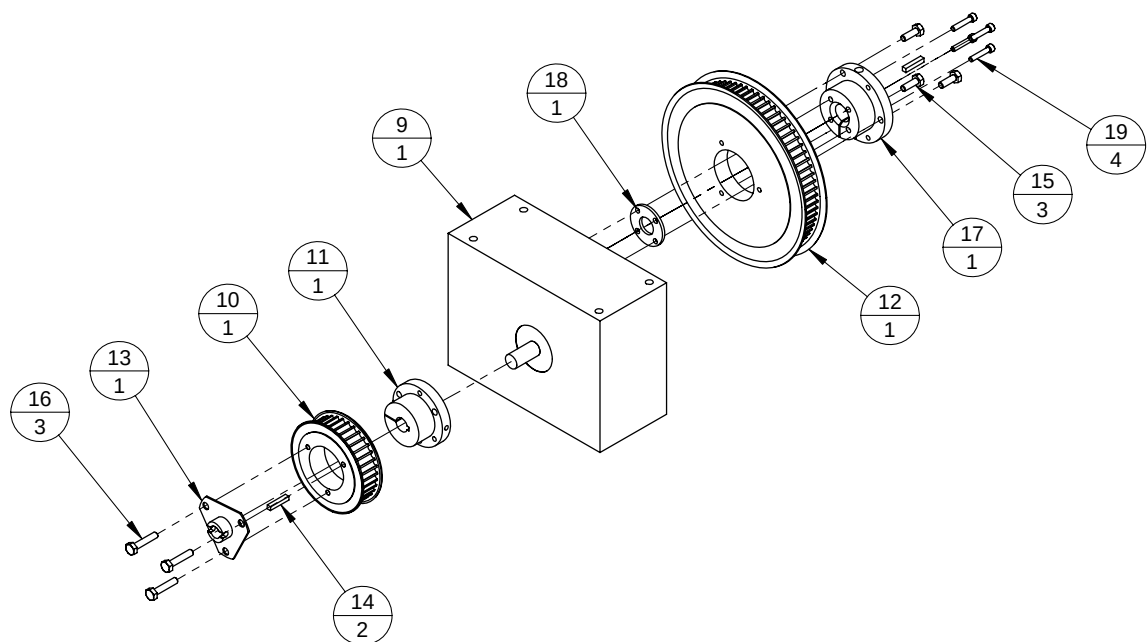
**FRONT TABLE - ENVELOPE CHAIN DRIVE (Fig. 1-3)
REDUCER – MOTOR COMBO, INDEXING BOX ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-385	1	ASSEMBLY, REDUCER-MOTOR COMBO
1	99001-024	1	GEAR MOTOR – REDUCER COMBO
2	99002-014	1	PULLEY, TIMING, TL24L100-SH (1210 TAPERLOCK)
3	99017-011	1	BUSHING, TAPERLOCK, 1210, 3/4 BORE
4	99002-012	1	PULLEY, TIMING, 36-8M-20 SH
5	99017-007	1	BUSHING, QD, SH 7/8 BORE
6	99034-002	2	KEY, SQUARE, 3/16 X 1
7	18006-153	1	PULLEY, TIMING, 30XL025, 7/8 BORE
8	-	3	BOLT, HEX HEAD, 1/4-20 X 1-1/4
	18020-057	1	ASSEMBLY, INDEXING BOX
9	99015-003	1	INDEXING BOX, CAMCO 3-180
10	99002-012	1	PULLEY, TIMING, 36-8M-20 SH
11	99017-008	1	BUSHING, QD, SH 5/8 BORE
12	99002-013	1	PULLEY, TIMING, 72-8M-20 SDS
13	18011-086	1	PLATE, DRIVE ADAPTER
14	99034-002	2	KEY, SQUARE, 3/16 X 1
15	-	3	BOLT, HEX HEAD, 1/4-20 X 3/4
16	-	3	BOLT, HEX HEAD, 1/4-20 X 1-1/4
17	18006-075	1	BUSHING, OUTPUT
18	18012-054	1	SPACER, TIMING PULLEY
19	-	4	SCREW, SKT HEAD, #10-24 X 1

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ASSY# 18020-385



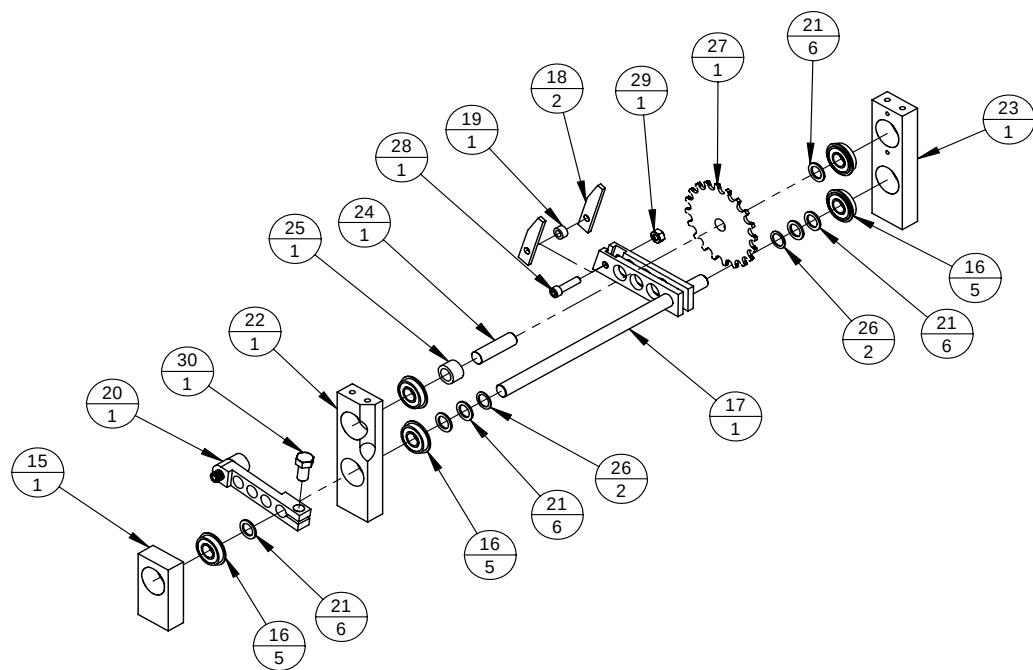
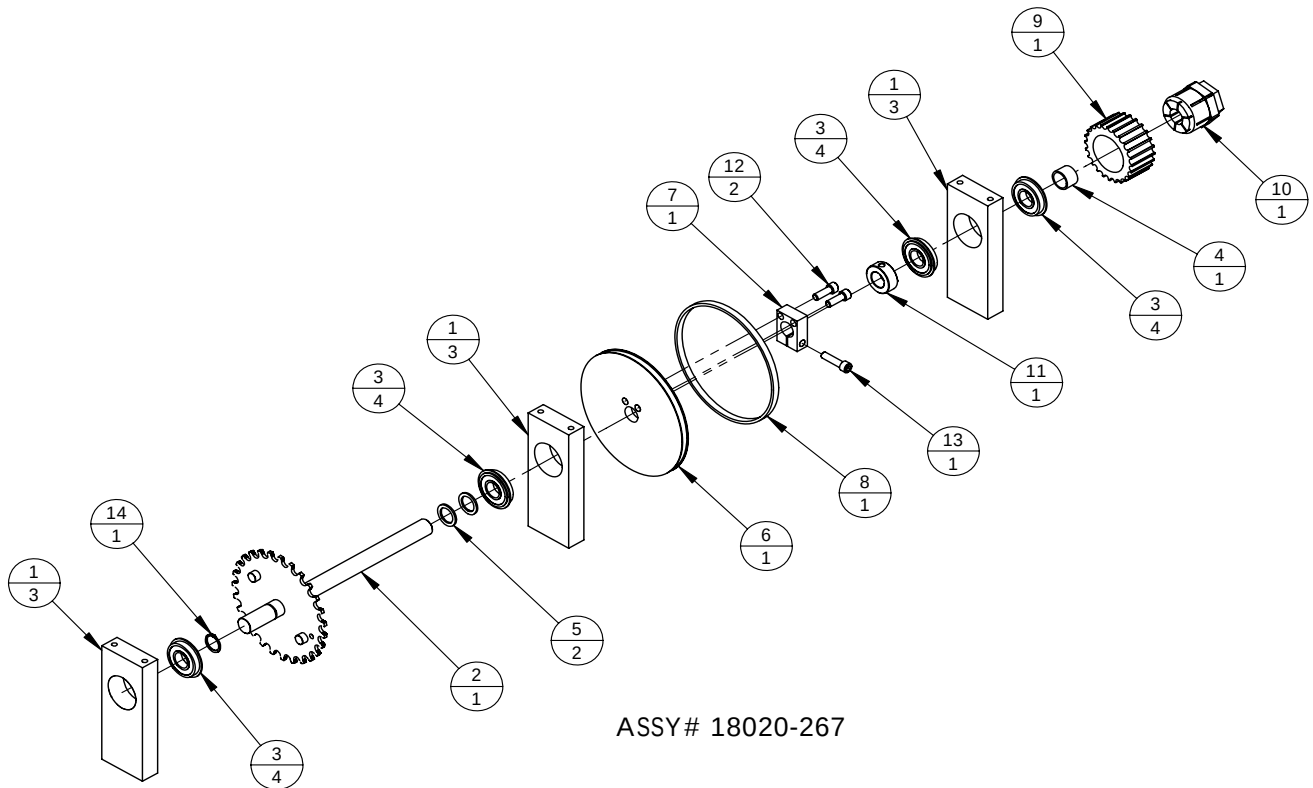
ASSY# 18020-057

**FRONT TABLE – ENVELOPE CHAIN DRIVE (Fig. 1-4)
 DRIVE SHAFT, RH JAW OPENER ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-267	1	ASSEMBLY, CHAIN DRIVE SHAFT
1	18007-076	3	BLOCK, BEARING, CHAIN SUPPORT
2	18004-054	1	SPROCKET – SHAFT ASSY, 27T
3	99003-006	4	BEARING, 5/8 X 1-3/8 SEALED W/ S.R.
4	99003-029	1	BUSHING, SL, 5/8 X 3/4 X 1/2
5	99003-021	2	WASHER, NYLON, 5/8 X 1/16
6	18006-035	1	ROLLER, ENVELOPE DISCHARGE
7	18007-107	1	BLOCK, CLAMP
8	18014-005	1	BELT, ENVELOPE CLOSE
9	18006-020	1	PULLEY, ENVELOPE CHAIN DRIVE
10	99017-010	1	TRANTORQUE, 5/8
11	99017-005	1	COLLAR, 5/8 SHAFT
12	-	2	BOLT, SKT HEAD, 1/4-20 X 3/4
13	-	1	BOLT, SKT HEAD, 1/4-20 X 1
14	99022-008	1	SNAP RING, 5/8 EXTERNAL
	18020-011	1	ASSEMBLY, RH JAW OPENER
15	18007-027	1	BLOCK, BEARING, SHORT
16	99003-007	5	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
17	18004-072	1	ASSEMBLY, RH JAW SHAFT
18	18008-048	2	BAR, RH JAW OPENER
19	99036-001	1	SPACER, RH JAW OPENER
20	18020-124	1	ASSEMBLY, ARM, RH JAW OPENER
21	99003-018	6	WASHER, NYLON, 1/2 X 1/16
22	18007-026	1	BLOCK, BEARING, CHAIN SUPPORT W/ CHAMFER
23	18007-046	1	BLOCK, BEARING, CHAIN SUPPORT
24	18004-030	1	SHAFT, IDLER, ENVELOPE CHAIN
25	99003-039	1	BUSHING, SL, 1/2 X 3/4 X 1/2
26	99003-032	2	WASHER, NYLON, 1/2 X 1/32
27	18015-005	1	SPROCKET, IDLER, 20T
28	-	1	SCREW, SKT HEAD, 1/4-20 X 1
29	-	1	NUT, HEX, 1/4-20
30	-	1	BOLT, HEX HEAD, 3/8-24 X 3/4

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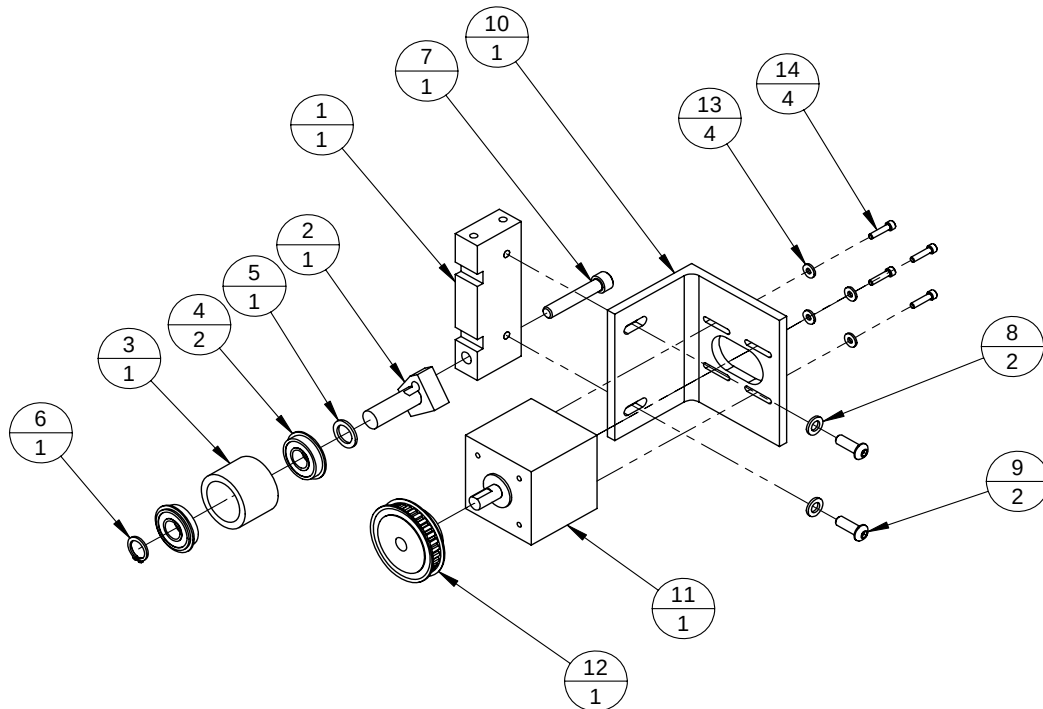


**FRONT TABLE - ENVELOPE CHAIN DRIVE (Fig. 1-5)
TENSIONER ASSEMBLIES**

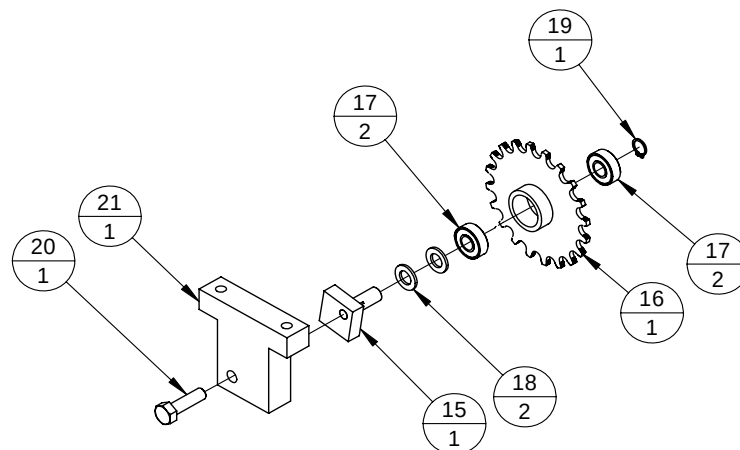
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-386	1	ASSEMBLY, TENSIONER W/ ENCODER
1	18007-031	1	BLOCK, TENSIONER MTG.
2	18004-022	1	SHAFT, ECCENTRIC IDLER, 1/2
3	18006-012	1	ROLLER, FLAT IDLER, 1-1/2 X 1-1/8
4	99003-007	2	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
5	99003-018	1	WASHER, NYLON, 1/2 X 1/16
6	99022-004	1	SNAP RING, 1/2
7	-	1	BOLT, SKT HEAD, 5/16-18 X 1-3/4
8	-	2	WASHER, FLAT, 1/4
9	-	2	BOLT, BUTTON HEAD, 1/4-20 X 3/4
10	18009-116	1	BRACKET, ENCODER (DANAHER)
11	98017-001	1	ENCODER, DANAHER
12	99002-152	1	PULLEY, TIMING, 30XL025, 3/8 BORE
13	-	4	FLAT WASHER, #6
14	-	4	SCREW, BUTTON HEAD, #6-32 X 5/8
	18020-058	2	ASSEMBLY, CHAIN TENSIONER
15	18004-024	1	SHAFT, ECCENTRIC IDLER, 3/8
16	18015-004	1	SPROCKET, IDLER, 20T
17	99003-008	2	BEARING, 3/8 X 7/8 SEALED
18	99003-017	2	WASHER, NYLON, 3/8 X 1/16
19	9902-003	1	SNAP RING, 3/8
20	-	1	BOLT, HEX HEAD, 5/16-18 X 3/4
21	18007-034	1	BLOCK, IDLER MTG.

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ASSY# 18020-386



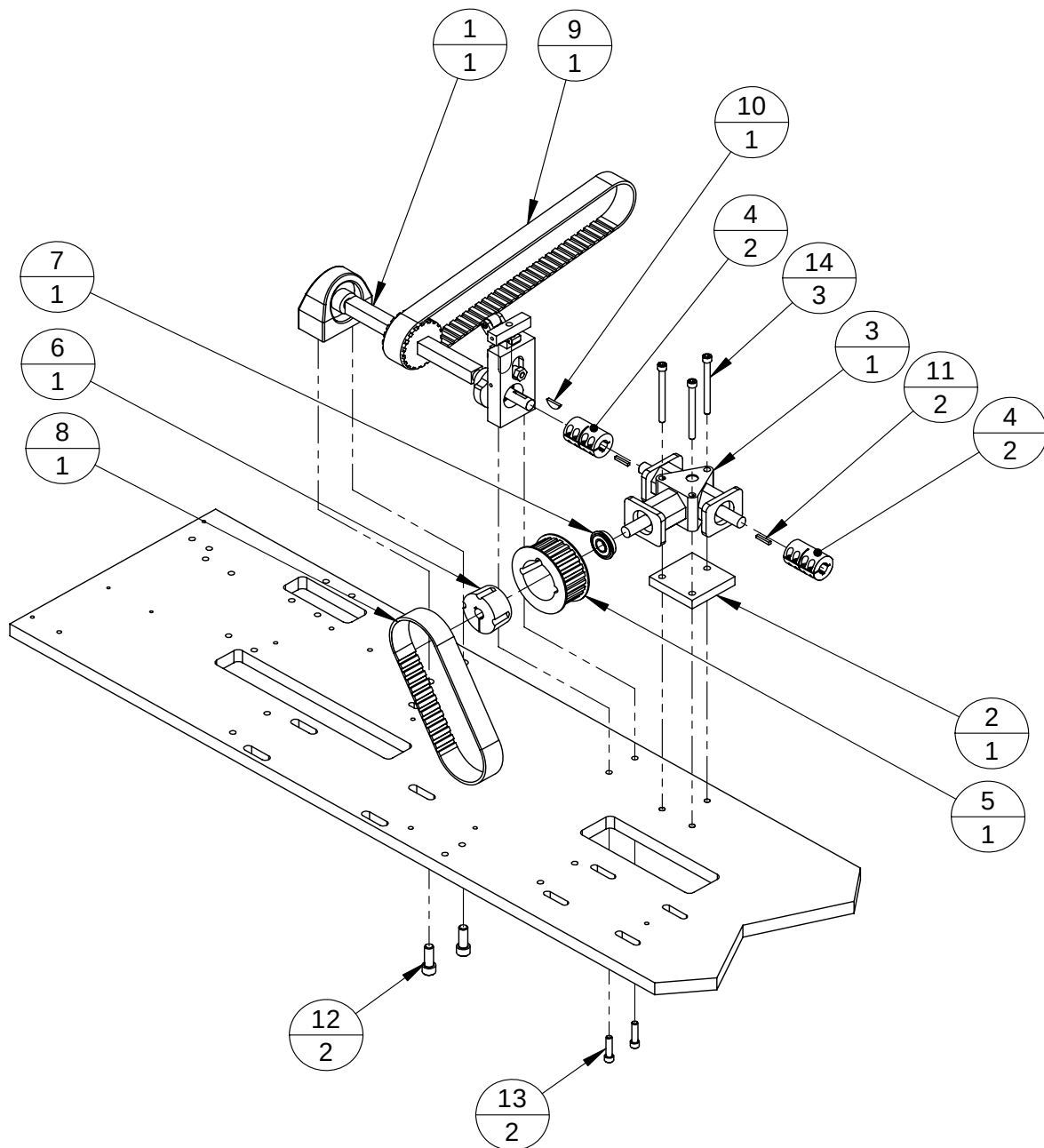
ASSY# 18020-058

**FRONT TABLE – CONVEYOR DRIVE ASSEMBLY (Fig. 1-6)
 (18020-006)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 1-7	1	ASSEMBLY, CONVEYOR DRIVE SHAFT (18020-088)
2	18011-009	1	SPACER, GEAR BOX
3	99015-002	1	GEAR BOX, RIGHT ANGLE
4	99017-001	2	COUPLING, 1/2" BORE, I PC CLAMP
5	99002-014	1	PULLEY, TL24L100-SH
6	99017-012	1	BUSHING, TAPERLOCK, 1210, 3/4 BORE
7	99003-007	1	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
8	99000-012	1	BELT, TIMING, 187L100
9	99000-015	1	BELT, TIMING, 300L075
10	99034-001	1	KEY, WOODRUF, 1/8 X 3/4
11	99034-003	2	KEY, SQUARE, 1/8 X 3/4
12	-	2	BOLT, SKT HEAD, 3/8-16 X 1
13	-	2	BOLT, SKT HEAD, 1/4-20 X 1
14	-	3	BOLT, SKT HEAD, 1/4-20 X 2-3/4

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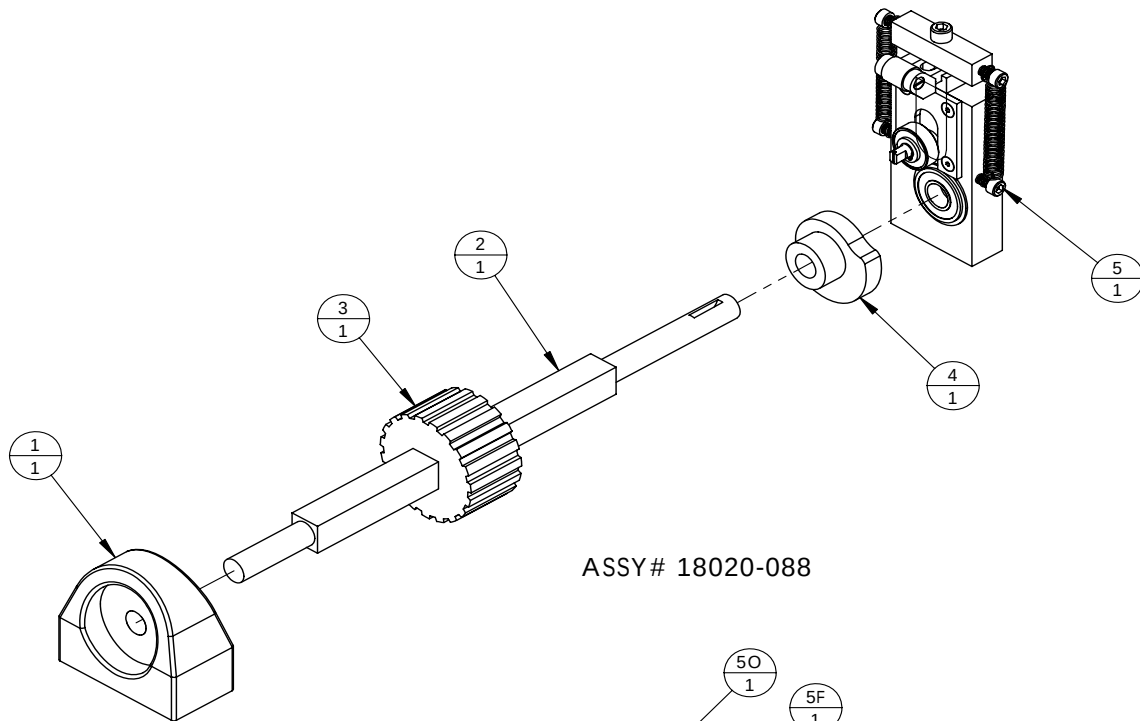


**FRONT TABLE - CONVEYOR DRIVE (Fig. 1-7)
 CONVEYOR DRIVE SHAFT ASSEMBLY (18020-088)**

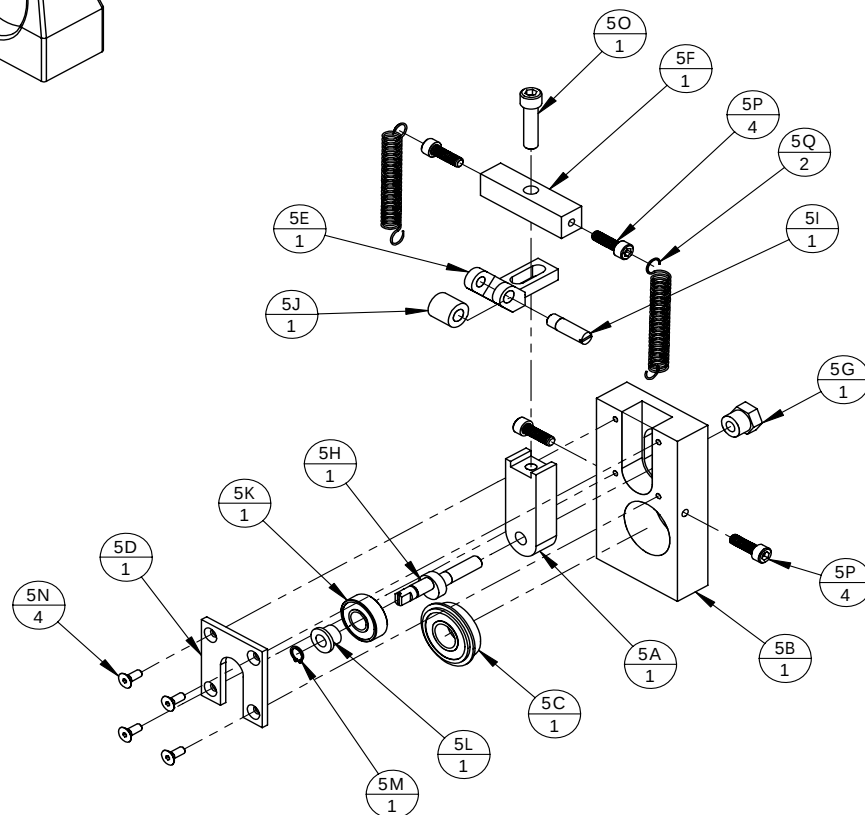
ITEM	PART NO.	QTY.	DESCRIPTION
1	99003-009	1	BEARING, PILLOW BLOCK, 1/2
2	18004-052	1	SHAFT, COLLATOR DRIVE
3	18006-038	1	PULLEY, COLLATOR DRIVE – 19L
4	18016-008	1	CAM, CENTER JAW OPENER
5	18020-010	1	ASSEMBLY, CENTER JAW OPENER
5A	18007-055	1	SLIDE, CENTER JAW OPENER
5B	18007-025	1	BLOCK, CTR JAW OPENER
5C	99003-007	1	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
5D	18005-024	1	GIB, CENTER JAW OPENER
5E	18009-031	1	BRACKET, ROLLER MTG.
5F	18009-004	1	BRACKET, SPRING MTG.
5G	99006-008	1	NUT, ECCENTRIC PIN
5H	99006-014	1	PIN, ECCENTRIC
5I	99006-015	1	PIN, CENTER JAW ROLLER
5J	99019-001	1	ROLLER, CENTER JAW OPENER
5K	99003-008	1	BEARING, 3/8 X 7/8 SEALED
5L	99003-102	1	BUSHING, FL, 1/4 X 3/8 X 7/8 X 1/4
5M	99022-001	1	SNAP RING, 1/4
5N	-	4	SCREW, FLAT HEAD, #6-32 X 3/8
5O	-	1	BOLT, SKT HEAD, 1/4-20 X 1
5P	-	4	SCREW, SKT HEAD, #10-24 X 5/8
5Q	99005-002	2	SPRING, EXTENSION

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ASSY# 18020-088



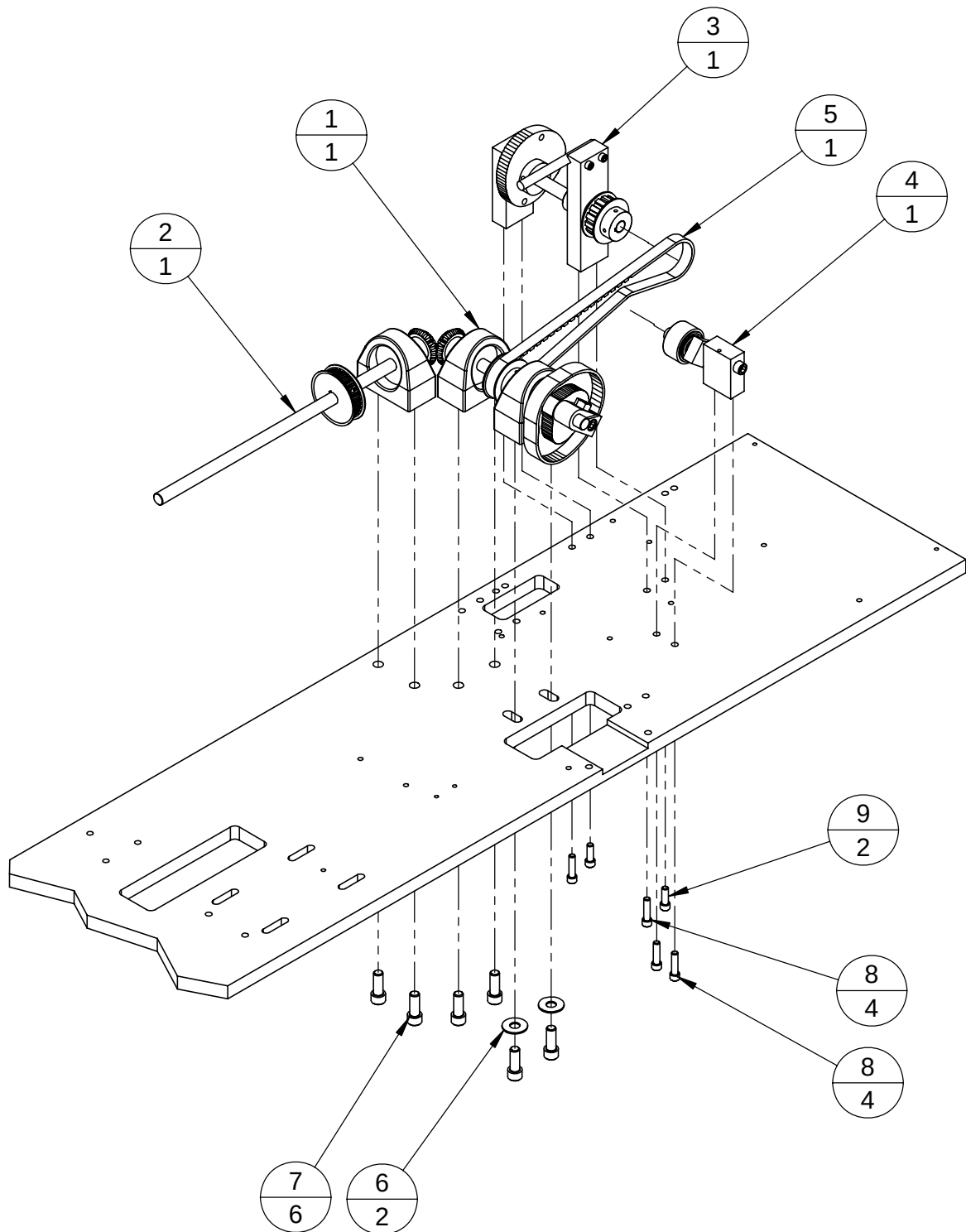
ASSY# 18020-010

FRONT TABLE – SHUTTLE DRIVE ASSEMBLY (Fig. 1-8)
(18020-268)

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 1-9	1	ASSEMBLY, SECONDARY SHUTTLE DRIVE (18020-381)
2	SEE FIG. 1-9	1	ASSEMBLY, PRIMARY SHUTTLE DRIVE (18020-382)
3	SEE FIG. 1-10	1	ASSEMBLY, SHUTTLE CAM DRIVE (18020-383)
4	SEE FIG. 1-10	1	ASSEMBLY, TENSIONER (18020-060)
5	99000-013	1	BELT, TIMING, 240L050
6	-	2	WASHER, FLAT, 3/8
7	-	6	BOLT, SKT HEAD, 3/8-16 X 1
8	-	4	BOLT, SKT HEAD, 1/4-20 X 1
9	-	2	BOLT, SKT HEAD, 1/4-20 X 3/4

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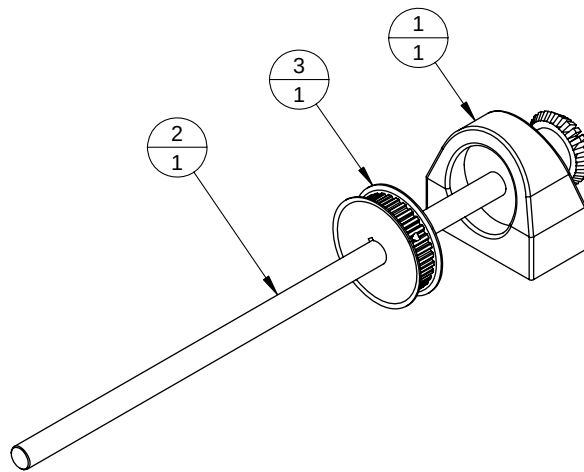


**FRONT TABLE –SHUTTLE DRIVE (Fig. 1-9)
 PRIMARY & SECONDARY DRIVE ASSEMBLIES**

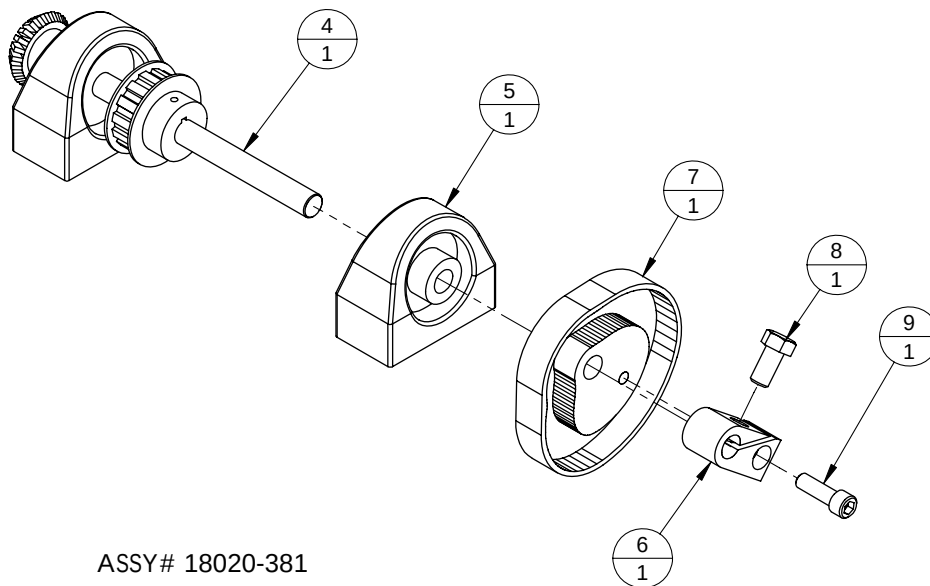
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-382	1	ASSEMBLY, PRIMARY SHUTTLE DRIVE
1	99003-009	1	BEARING, PILLOW BLOCK, 1/2
2	18004-061	1	SHAFT ASSY, PRIMARY SHUTTLE DRIVE
3	99002-017	1	PULLEY, TIMING, 32XL037, 1/2 BORE
	18020-381	1	ASSEMBLY, SECONDARY SHUTTLE DRIVE
4	18004-062	1	SHAFT ASSY, SECONDARY SHUTTLE DRIVE
5	99003-009	1	BEARING, PILLOW BLOCK, 1/2
6	18007-103	1	BLOCK, CLAMP, RH JAW CAM
7	18016-026	1	BOX CAM, RH JAW OPENER
8	-	1	BOLT, HEX HEAD, 3/8-16 X 3/4
9	-	1	BOLR, SKT HEAD, 5/16-18 X 1

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ASSY# 18020-382



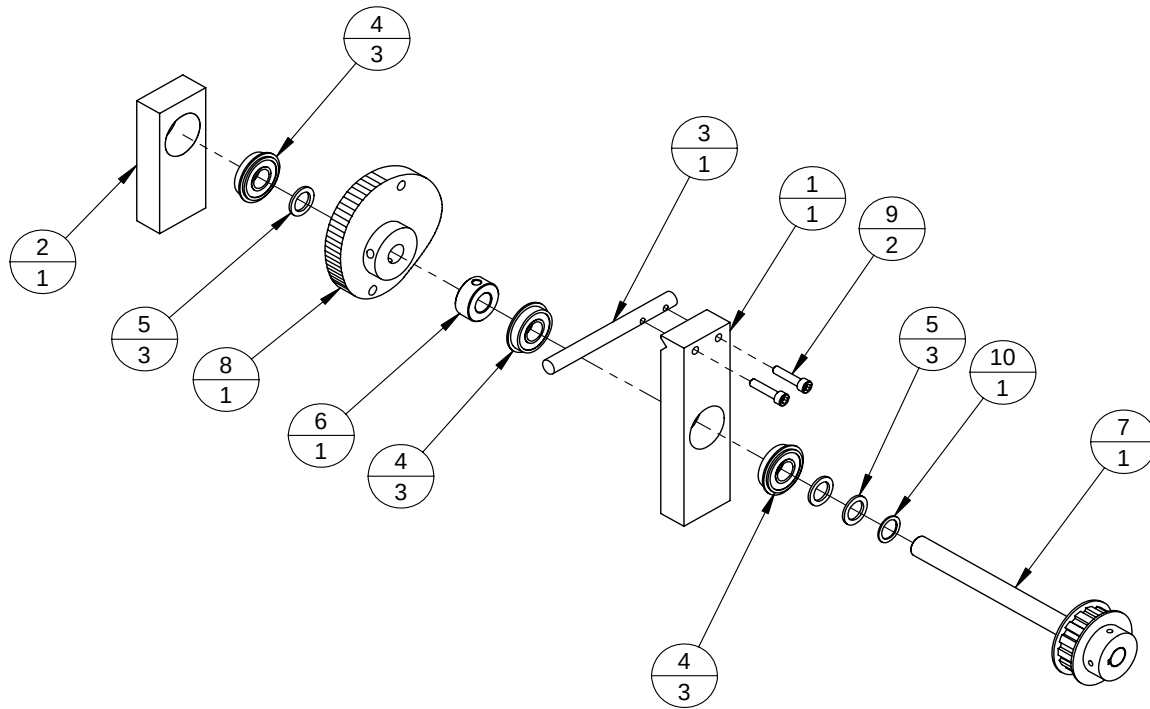
ASSY# 18020-381

**FRONT TABLE –SHUTTLE DRIVE (Fig. 1-10)
 SHUTTLE CAM DRIVE, TENSIONER ASSEMBLIES**

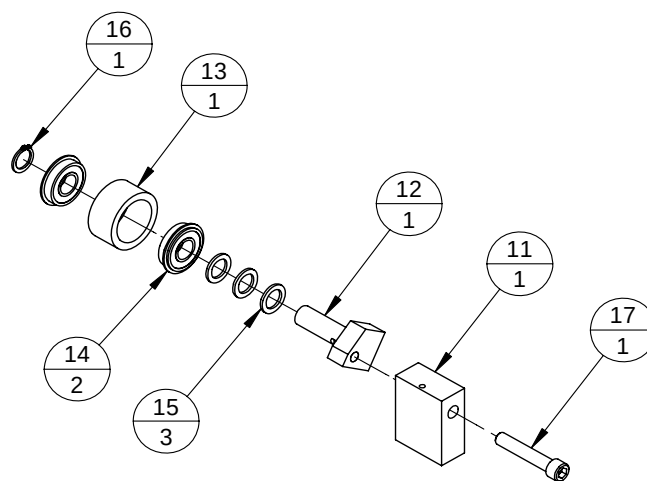
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-383	1	ASSEMBLY, SHUTTLE CAM DRIVE
1	18007-020	1	BLOCK, SHUTTLE GUIDE SUPPORT
2	18007-021	1	BLOCK, SHUTTLE DRIVE
3	18004-019	1	SHAFT, SHUTTLE SUPPORT
4	99003-007	3	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
5	99003-018	3	WASHER, NYLON, 1/2 X 1/16
6	99017-004	1	COLLAR, 1/2 SHAFT
7	18004-063	1	SHAFT, SHUTTLE DRIVE
8	18016-014	1	CAM, SHUTTLE, 16K
9	-	2	SCREW, SKT HEAD, #10-24 X 7/8
10	99003-032	1	WASHER, NYLON, 1/2 X 1/32
	18020-060	1	ASSEMBLY, TENSIONER
11	18007-030		BLOCK, TENSIONER
12	18004-022		SHAFT, ECCENTRIC IDLER, 1/2
13	18006-011		PULLEY, FLAT IDLER, 3/4" W
14	99003-007		BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
15	99003-018		WASHER, NYLON, 1/2 X 1/16
16	99022-004		SNAP RING, 1/2
17	-		BOLT, SKT HEAD, 5/16-18 X 1-3/4

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ASSY# 18020-383



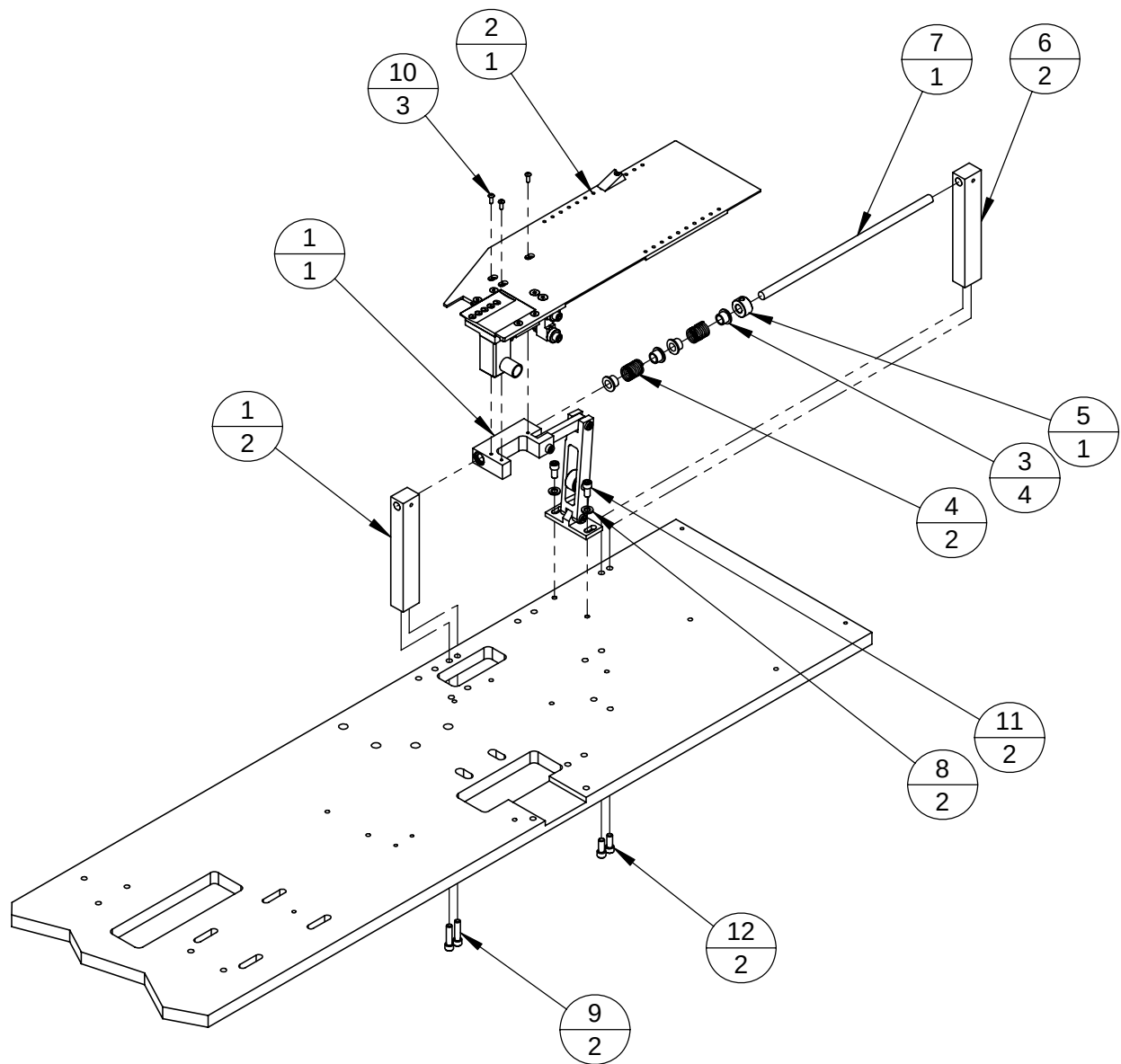
ASSY# 18020-060

**FRONT TABLE – SHUTTLE ASSEMBLY (Fig. 1-11)
 (18020-198)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 1-12	1	ASSEMBLY, SHUTTLE GUIDE (18020-199)
2	SEE FIG. 1-13	1	ASSEMBLY, SHUTTLE PLATE (18020-089)
3	99003-022	4	BUSHING, FL, 3/8 X 1/2 X 3/8
4	99005-005	2	SPRING, COMPRESSION
5	99017-003	1	COLLAR, 3/8 SHAFT
6	18007-019	2	POST, SHUTTLE SUPPORT
7	18004-018	1	SHAFT, SHUTTLE GUIDE
8	-	2	WASHER, FLAT, 1/4
9	-	2	BOLT, SKT HEAD, 1/4-20 X 1
10	-	3	SCREW, BUTTON HEAD, #6-32 X 3/8
11	-	2	BOLT, SKT HEAD, 1/4-20 X 1/2
12	-	2	BOLT, SKT HEAD, 1/4-20 X 5/8

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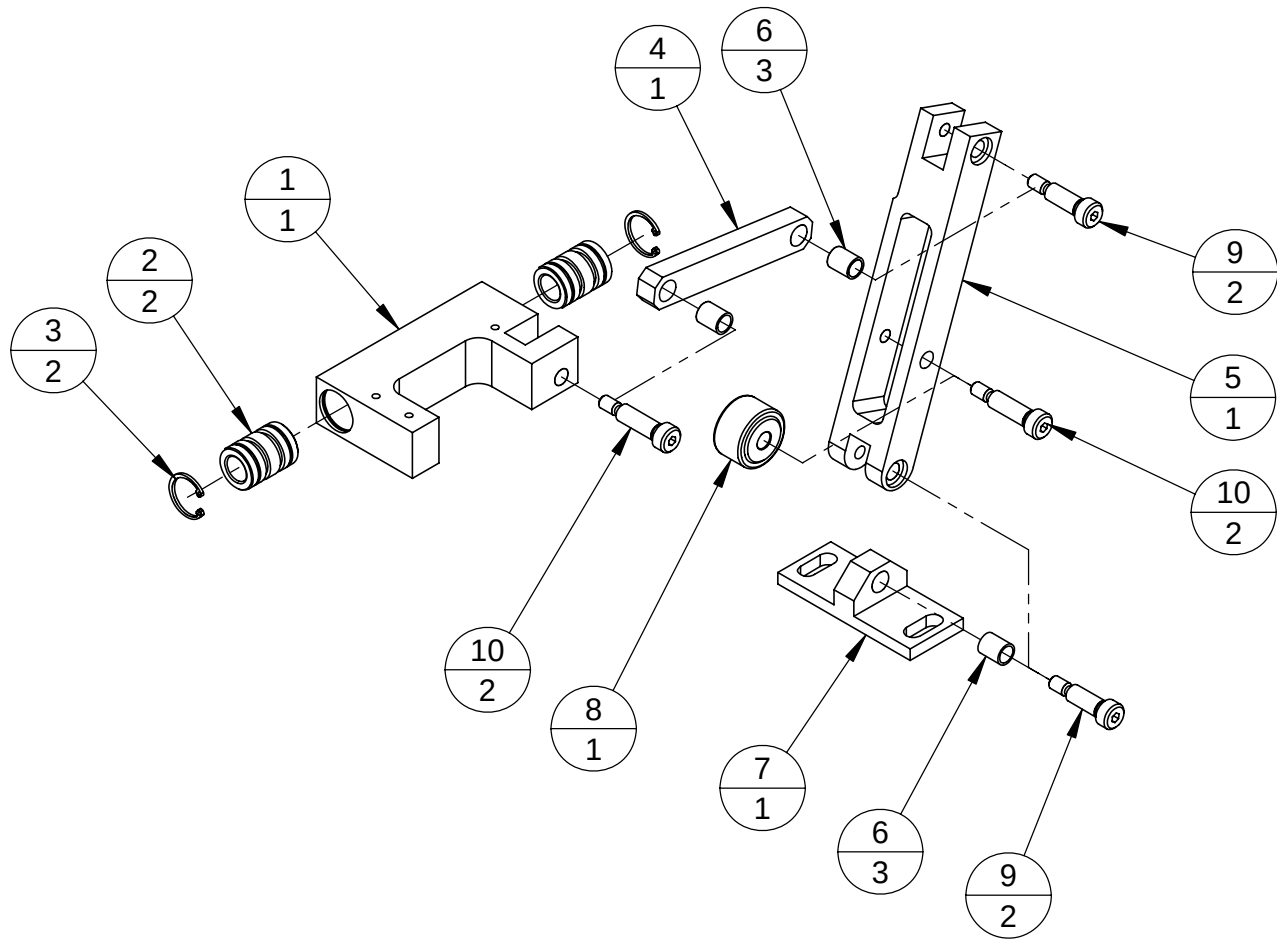


FRONT TABLE – SHUTTLE (Fig. 1-12)
SHUTTLE GUIDE ASSEMBLY (18020-199)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18007-023	1	BLOCK, BEARING, SHUTTLE GUIDE
2	99003-010	2	BEARING, LINEAR, 3/8 BORE
3	99022-006	2	SNAP RING, 5/8 INTERNAL
4	18008-018	1	LINK, SHUTTLE DRIVE
5	18008-099	1	ARM, SHUTTLE DRIVE, 16K
6	99003-011	3	BUSHING, SL, 1/4 X 5/16 X 3/8
7	18007-022	1	BLOCK, PIVOT ARM MTG.
8	99003-081	1	ROLLER YOKE, 1/4 X 7/8 X .563
9	99033-002	2	SHOULDER BOLT, 1/4 X 5/8
10	99033-005	2	SHOULDER BOLT, 1/4 X 3/4

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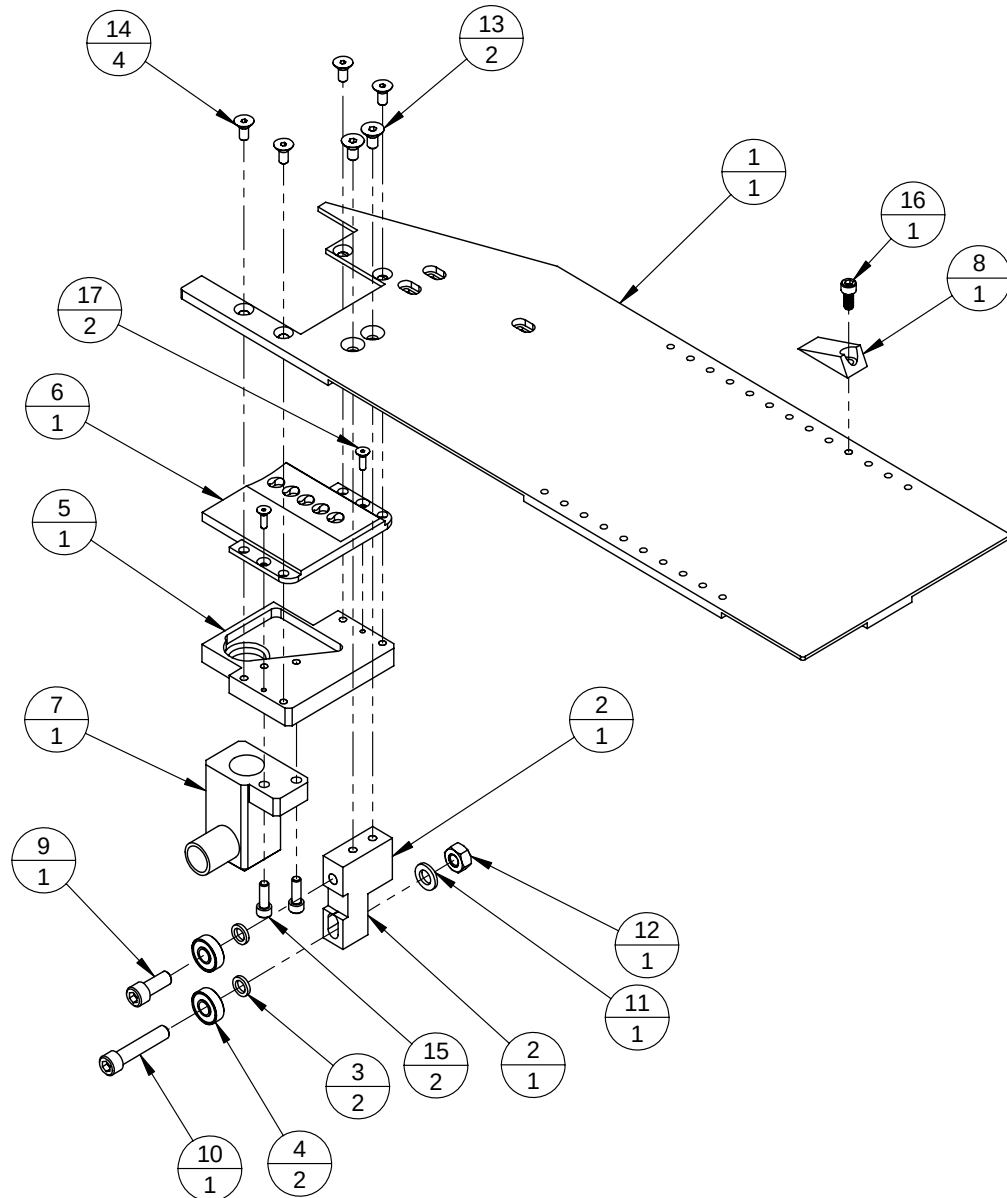


**FRONT TABLE – SHUTTLE (Fig. 1-13)
 SHUTTLE PLATE ASSEMBLY (18020-089)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18011-029	1	PLATE, SHUTTLE
2	18007-024	1	BLOCK, CAM ROLLER
3	99036-002	2	WASHER, HARDENED, 1/4 X 3/8 X 1/16
4	99003-002	2	BEARING, 1/4 X 5/8 SEALED
5	18011-131	1	PLATE, ENVELOPE VACUUM
6	18011-048	1	PLATE, VACUUM TOP
7	18007-146	1	BLOCK, MANIFOLD
8	18007-077	1	BLOCK, VIBRATOR
9	-	1	BOLT, SKT HEAD, 1/4-20 X 5/8
10	-	1	BOLT, SKT HEAD, 1/4-20 X 1-1/8
11	-	1	WASHER, FLAT, 1/4
12	-	1	NUT, HEX, 1/4-20
13	-	2	SCREW, FLAT HEAD, #10-24 X 3/8
14	-	4	SCREW, FLAT HEAD, #8-32 X 3/8
15	-	2	SCREW, SKT HEAD, #8-32 X 1/2
16	-	1	SCREW, SKT HEAD, #8-32 X 3/8
17	-	2	SCREW, FLAT HEAD, #4-40 X 3/8

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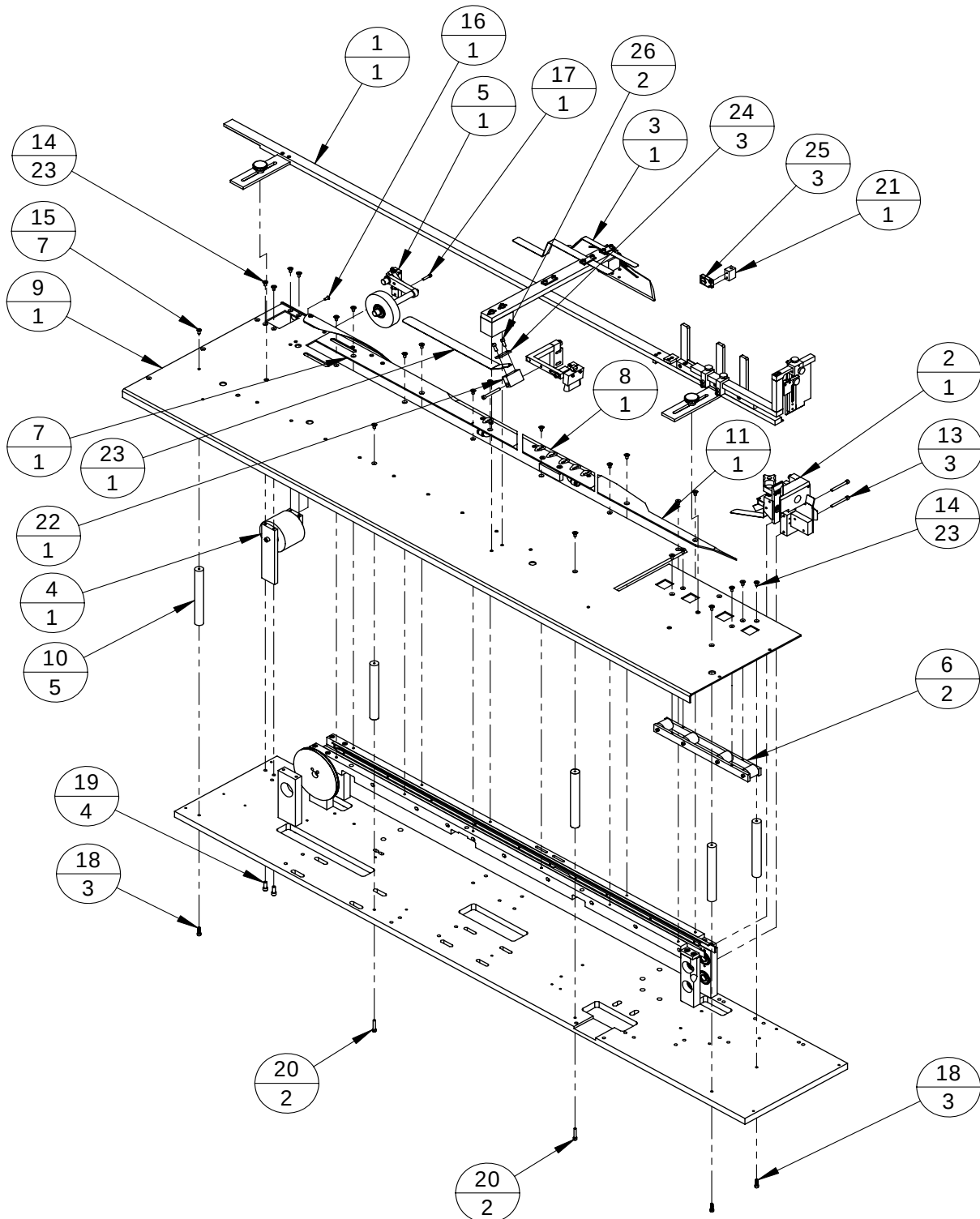


**FRONT TABLE – TOP GUIDE ASSEMBLY (Fig. 1-14)
 (18020-016)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 1-15	1	ASSEMBLY, PAPER GUIDE (18020-090)
2	SEE FIG. 1-17	1	ASSEMBLY, GATE (18020-064)
3	SEE FIG. 1-18	1	ASSEMBLY, ENVELOPE PLOW (18020-092)
4	SEE FIG. 1-19	1	ASSEMBLY, DISCHARGE ROLLER (18020-066)
5	SEE FIG. 1-19	1	ASSEMBLY, EXIT ROLLER (18020-093)
6	SEE FIG. 1-19	1	ASSEMBLY, ENVELOPE ROLLER (18020-094)
7	SEE FIG. 1-20	1	ASSEMBLY, INSERT GUIDE RAIL (W/ CANOLLI) (18020-270)
8	SEE FIG. 1-20	1	ASSEMBLY, ADJ, INSERT GUIDE RAIL (18020-269)
9	18011-035	1	PLATE, TOP
10	18012-008	5	STANDOFF, TOP PLATE
11	18011-034	1	RAIL, INSERT GUIDE
13	-	3	SCREW, SKT HEAD, #10-24 X 7/8
14	-	23	SCREW, FLAT HEAD, #10-24 X 3/8
15	-	1	SCREW, BUTTON HEAD, #10-24 X 3/8
16	-	1	SCREW, BUTTON HEAD, #8-32 X 3/8
17	-	1	SCREW, SKT HEAD, #8-32 X 3/4
18	-	3	SCREW, SKT HEAD, #10-24 X 5/8
19	-	2	BOLT, SKT HEAD, #10-24 X 5/8
20	-	2	SCREW, SKT HEAD, #10-24 X 1
21	18007-064	1	BLOCK, PE MTG @ ENV. OPEN
22	18007-061	1	BLOCK, CLOSER STRAP MTG.
23	18005-076	1	GUIDE, SPRING STEEL @ CLOSE
24	18009-016	1	PLATE, SPRING STEEL CLAMP, 1"
25	98009-001	1	SENSOR, AN7
26	-	2	SCREW, SKT HEAD, #10-24 X 1/2

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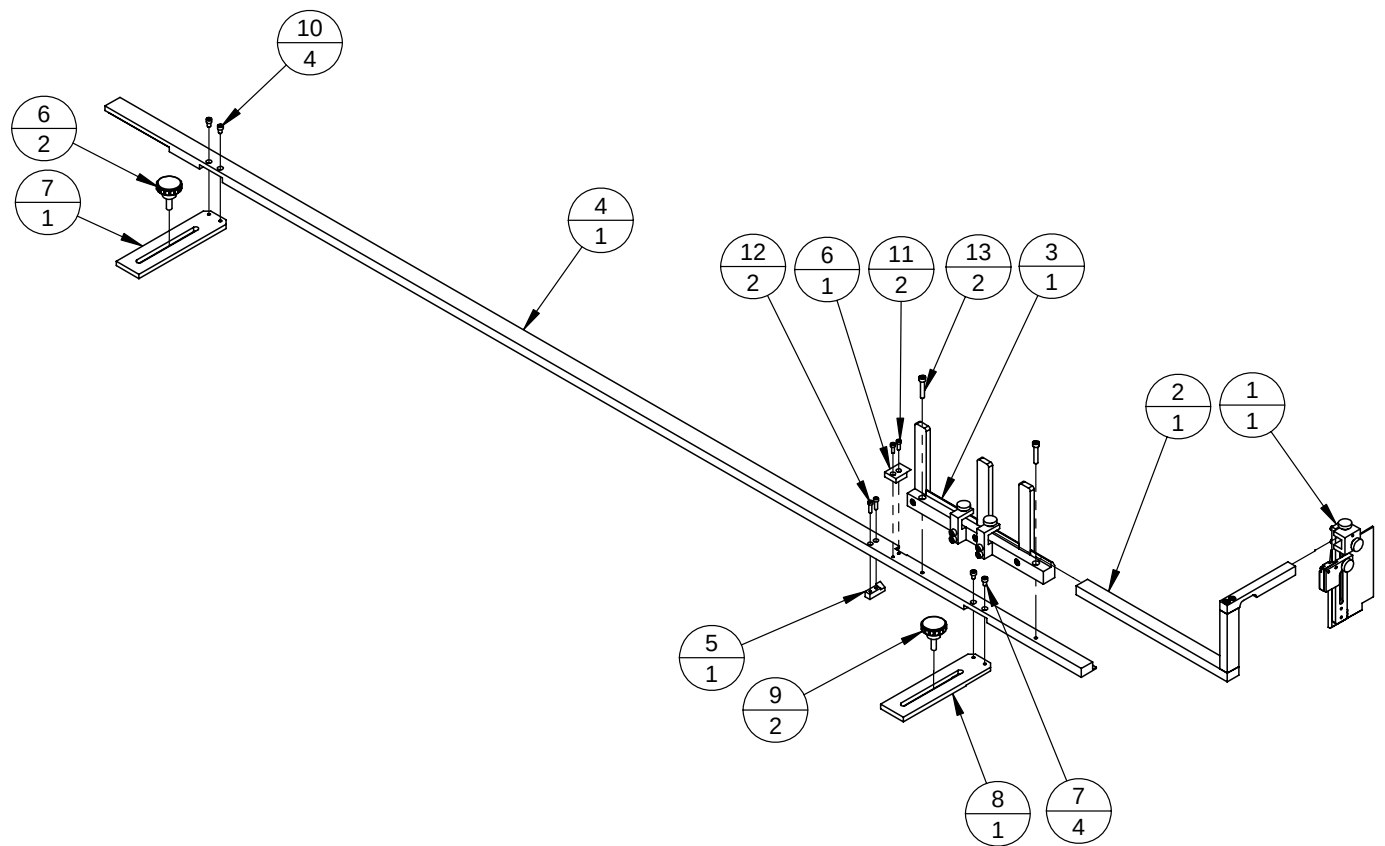


**FRONT TABLE – TOP GUIDE (Fig. 1-15)
 PAPER GUIDE ASSEMBLY (18020-090)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 1-16	1	ASSEMBLY, ADJUSTABLE SIDE GUIDE (18020-387)
2	SEE FIG. 1-16	1	ASSEMBLY, ADJ. SIDE GUIDE MTG. (18020-388)
3	SEE FIG. 1-16	1	ASSEMBLY, HOPPER GUIDE (18020-389)
4	18005-040	1	RAIL, ENVELOPE GUIDE
5	18005-050	1	GUIDE, ENVELOPE CORNER, LOWER
6	18005-053	1	GUIDE, ENVELOPE CORNER, TOP
7	18008-019	1	BAR, RAIL MTG.
8	18008-026	1	BAR, RAIL MTG W/ RECESS
9	99004-004	2	KNOB, #10-24 FEMALE
10	-	4	SCREW, SKT HEAD, #6-32 X 1/4
11	-	2	SCREW, SKT HEAD, #6-32 X 3/8
12	-	2	SCREW, SKT HEAD, #6-32 X 1/2
13	-	2	SCREW, SKT HEAD, #10-24 X 1

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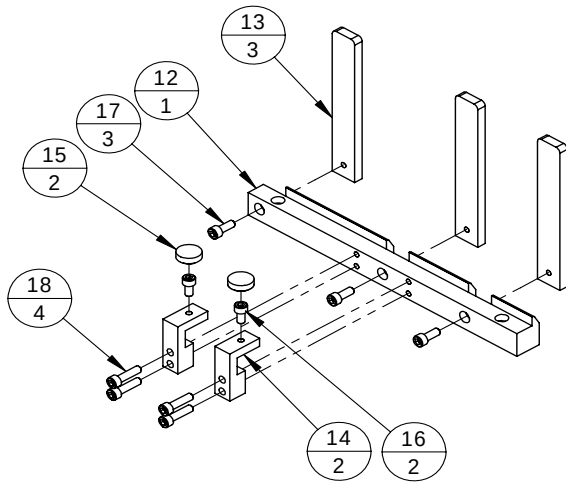


**FRONT TABLE – TOP GUIDE (Fig. 1-16)
 SIDE & HOPPER GUIDE ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-387	1	ASSEMBLY, ADJ. SIDE GUIDE
1	18007-047	1	CLAMP, REAR GUIDE MTG.
2	18008-073	1	BAR, HOPPER GUIDE MTG.
3	18009-005	1	BRACKET, SENSOR MTG.
4	98009-001	1	SENSOR, BANNER, AN7
5	18005-087	1	GUIDE, HOPPER INFEED
6	99004-002	3	KNOB, #10 SCREW
7	-	3	SCREW, SKT HEAD, #10-24 X 3/8
8	-	2	SCREW, SKT HEAD, #4-40 X 3/8
9	-	2	SCREW, SKT HEAD, #8-32 X 1/4
10	-	4	SCREW, SKT HEAD, #6-32 X 1/2
11	-	1	HEX NUT, #10-24
	18020-389	1	ASSEMBLY, HOPPER GUIDE
12	18007-035	1	BLOCK, PAPER GUIDE MTG.
13	18005-014	3	GUIDE, ENVELOPE HOPPER
14	18007-036	2	CLAMP, REAR GUIDE ADJ.
15	99004-002	2	KNOB, #10 SCREW
16	-	2	SCREW, SKT HEAD, #10-24 X 3/8
17	-	3	SCREW, SKT HEAD, #10-24 X 1/2
18	-	4	SCRW, SKT HEAD, #10-24 X 3/4
	18020-388	1	ASSEMBLY, SIDE GUIDE MTG.
19	18008-074	1	POST, REAR GUIDE SUPPORT
20	18008-041	1	BAR, REAR GUIDE SUPPORT
21	18008-021	1	BAR, PAPER GUIDE ADJ.
22	-	4	SCRWE, SKT HEAD, #10-24 X 3/4

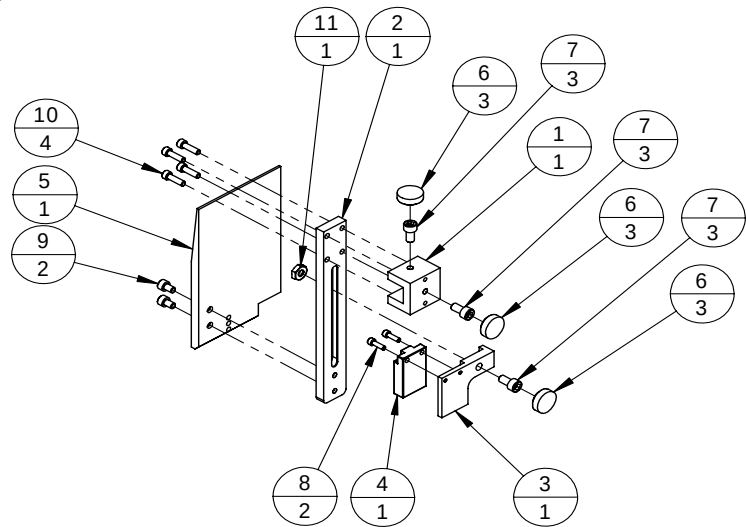
PITNEY BOWES

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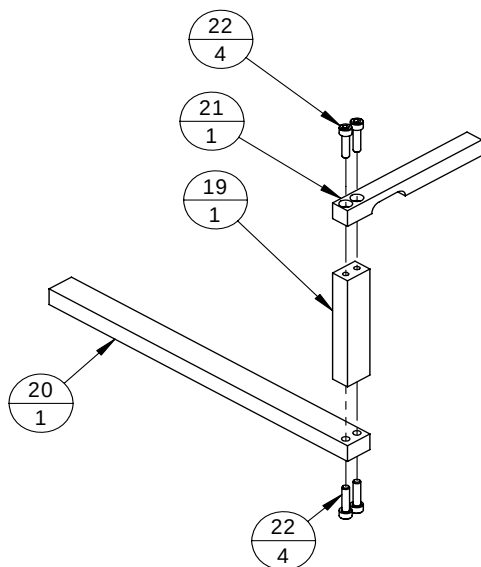


ASSY#18020-389

ASSY#18020-387



ASSY#18020-388

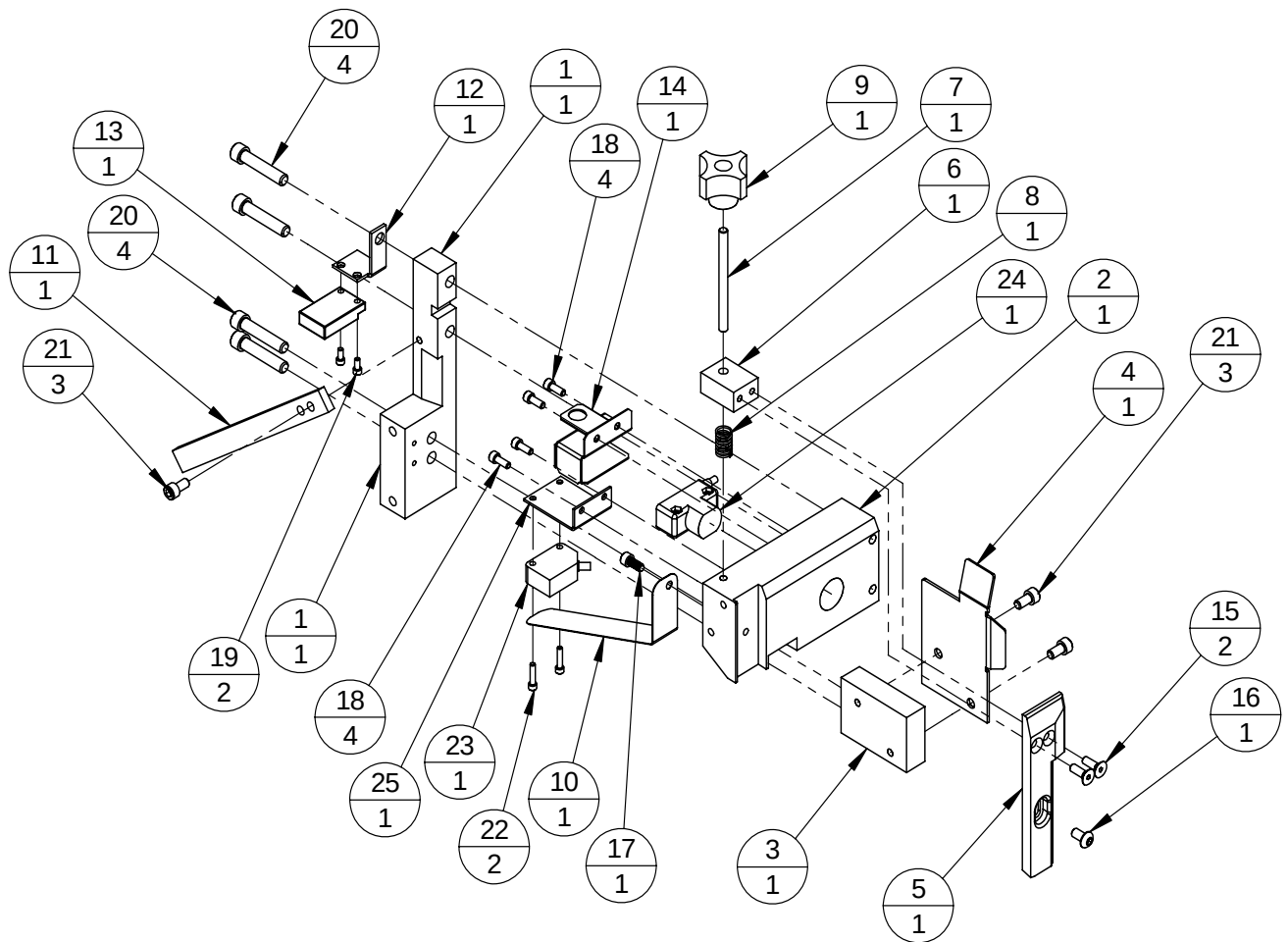


**FRONT TABLE – TOP GUIDE (Fig. 1-17)
 GATE ASSEMBLY (18020-064)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18008-042	1	BLOCK, GATE SUPPORT
2	18007-079	1	BLOCK, GATE MTG.
3	18007-127	1	BLOCK, LOWER GUIDE MTG.
4	18005-160	1	GUIDE, LOWER ENVELOPE
5	18005-077	1	GATE, ENVELOPE HOPPER
6	18007-045	1	BLOCK, GATE ADJ.
7	99032-004	1	STUD, #10-32 X 2-1/2
8	99005-007	1	SPRING GATE ADJ.
9	99004-005	1	KNOB, FEMALE, #10-32
10	18005-025	1	GUIDE, SPRING STEEL @ GATE
11	18005-073	1	GUIDE, ENVELOPE PRE OPEN
12	18009-046	1	BRACKET, FLAP SENSOR MTG.
13	98009-001	1	SENSOR, BANNER, AN7
14	18009-040	1	BRACKET, ENVELOPE SENSOR
15	-	2	SCREW FLAT HEAD, #8-32 X 1/2
16	-	1	SCREW, BUTTON HEAD, #10-24 X 3/8
17	-	1	SCREW, SKT HEAD, #6-32 X 3/8
18	-	4	SCREW, SKT HEAD, #6-32 X 3/8
19	-	2	SCREW, SKT HEAD, #4-40 X 1/4
20	-	4	BOLT, SKT HEAD, 1/4-20 X 1-1/4
21	-	3	SCREW, SKT HEAD, #10-24 X 3/8
22	-	2	SCREW, SKT HEAD, #4-40 X 1/2
23	98009-037	1	SENSOR, RECIEVER, THRU BEAM
24	98009-017	1	SENSOR / CABLE ASSY
25	99018-008	1	BRACKET, SENSOR MTG.

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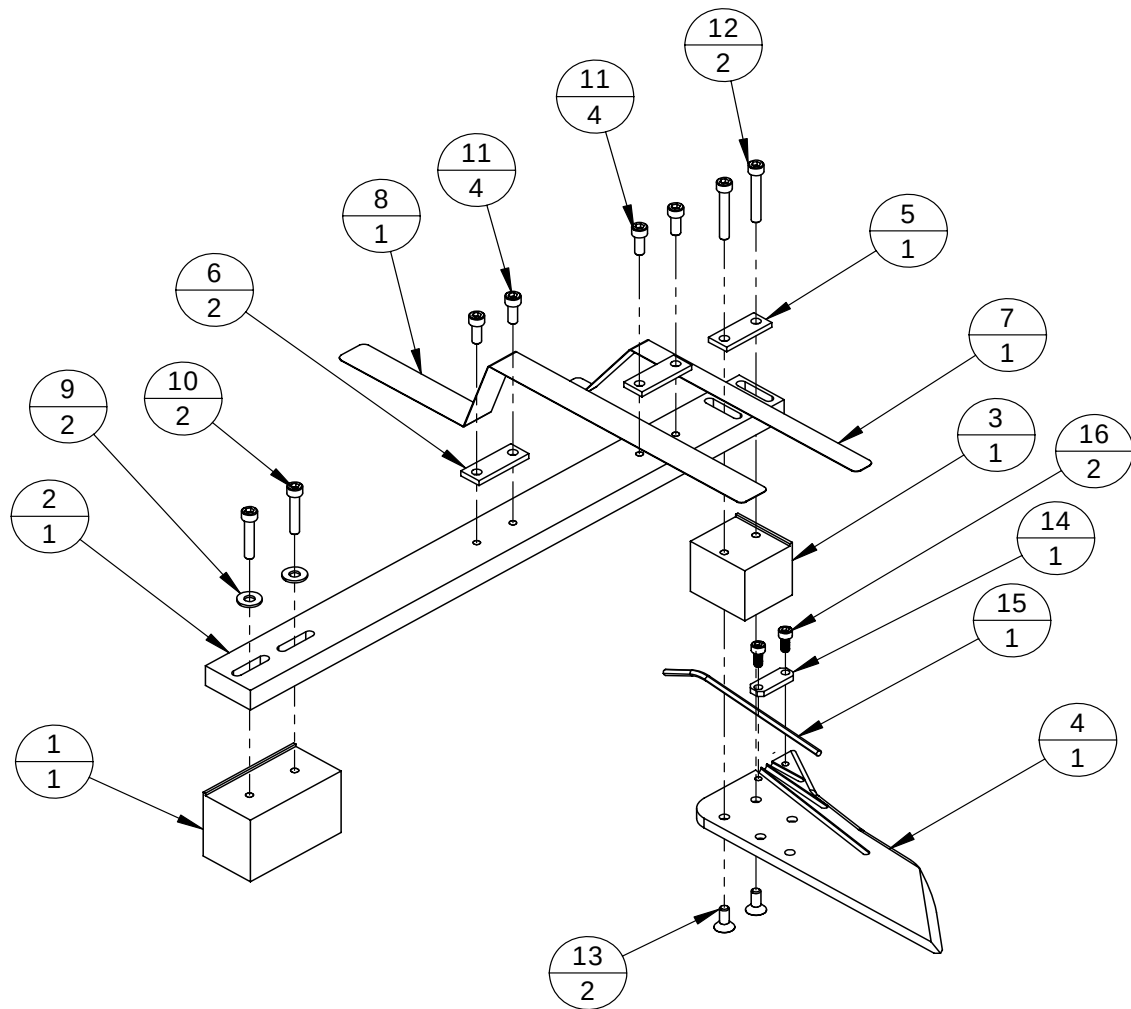


**FRONT TABLE –TOP GUIDE (Fig. 1-18)
 ENVELOPE PLOW ASSEMBLY (18020-092)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18007-041	1	BLOCK, PLOW SUPPORT
2	18008-044	1	BAR, PLOW SUPPORT
3	18007-010	1	BLOCK, PLOW MTG, FIXED
4	18005-021	1	PLOW, ENVELOPE OPENER
5	18009-015	1	PLATE, SPRING STEEL CLAMP, 7/8"
6	18009-016	1	PLATE, SPRING STEEL CLAMP, 1"
7	18005-074	1	GUIDE, SPRING STEEL @ PLOW
8	18005-075	1	GUIDE, SPRING STEEL @ INSERT
9	-	2	FLAT WASHER, #10
10	-	2	SCREW, SKT HEAD, #10-24 X 1
11	-	4	SCREW, SKT HEAD, #10-24 X 1/2
12	-	2	SCREW, SKT HEAD, #10-24 X 1-1/4
13	-	2	SCREW, FLAT HEAD, #10-24 X 1/2
14	18009-007	1	PLATE, GUIDE WIRE CLAMP
15	18005-060	1	GUIDE WIRE @ PLOW
16	-	2	SCREW, SKT HEAD, #6-32 X 3/8

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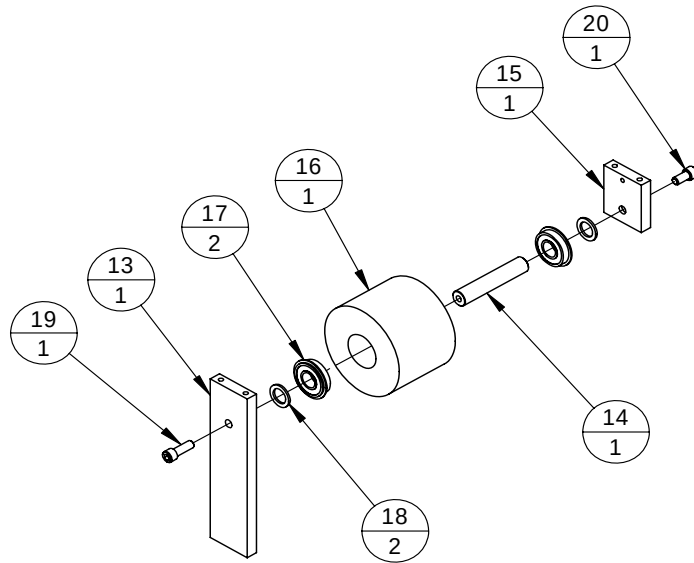


**FRONT TABLE – TOP GUIDE (Fig. 1-19)
 ROLLER ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-093	1	ASSEMBLY, EXIT ROLLER
1	18007-087	1	BLOCK, WHEEL ADJ.
2	18004-030	1	SHAFT, IDLER
3	99003-031	1	BUSHING, 1/2 X 5/8 X 1/2
4	18007-088	1	BLOCK, WHEEL ADJ.
5	20008-002	1	BAR, EXIT ROLLER
6	99022-004	3	SNAP RING, 1/2
7	18004-059	1	SHAFT, WHEEL @ ENVELOPE CLOSE
8	20006-003	1	ROLLER, EXIT
9	99003-007	2	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
10	-	1	BOLT, SKT HEAD, 1/4-20 X 3/4
11	-	2	SCREW, SKT HEAD, #10-24 X 3/4
12	-	1	SCREW, SKT HEAD, 1/4-20 X 1
	18020-066	1	ASSEMBLY, DISCHARGE ROLLER
13	18007-032	1	BLOCK, BEARING, EXIT ROLLER SUPPORT
14	18004-023	1	SHAFT, DISCHARGE ROLLER
15	18007-033	1	BLOCK, BEARING, EXIT ROLLER MTG.
16	18006-013	1	ROLLER, ENVELOPE DISCHARGE
17	99003-007	2	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
18	99003-018	2	WASHER, NYLON, 1/2 X 1/16
19	-	1	BOLT, SKT HEAD, 1/4-20 X 3/4
20	-	1	BOLT, SKT HEAD, 1/4-20 X 1/2
	18020-094	1	ASSEMBLY, ENVELOPE ROLLER
21	18011-039	2	PLATE, ENVELOPE ROLLER MTG.
22	10012-003	4	SPACER, TONGUE
23	10006-016	4	ROLLER, TONGUE
24	-	8	SCREW, SKT HEAD, #8-32 X 1/2

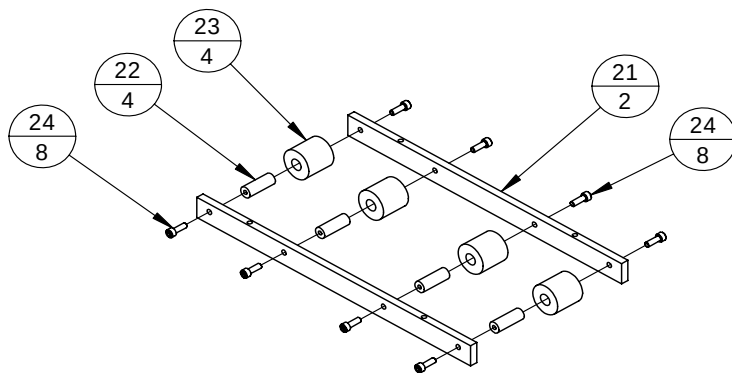
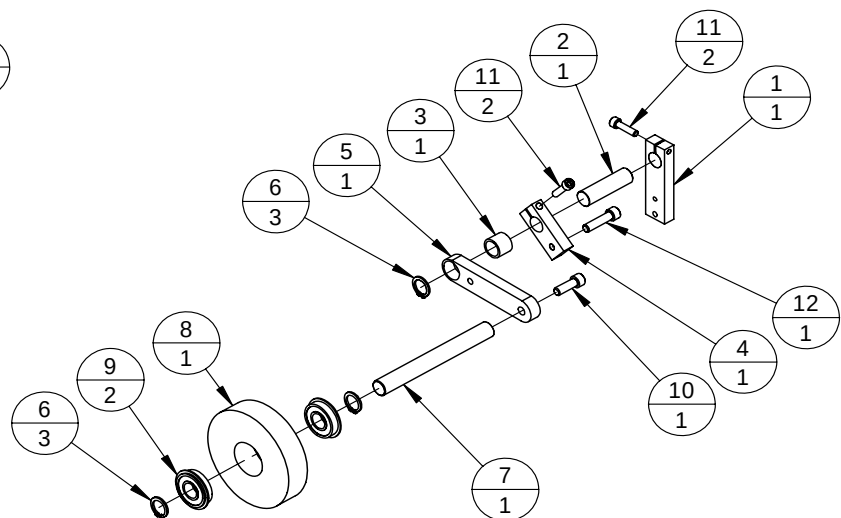
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ASSY# 18020-066

ASSY# 18020-093



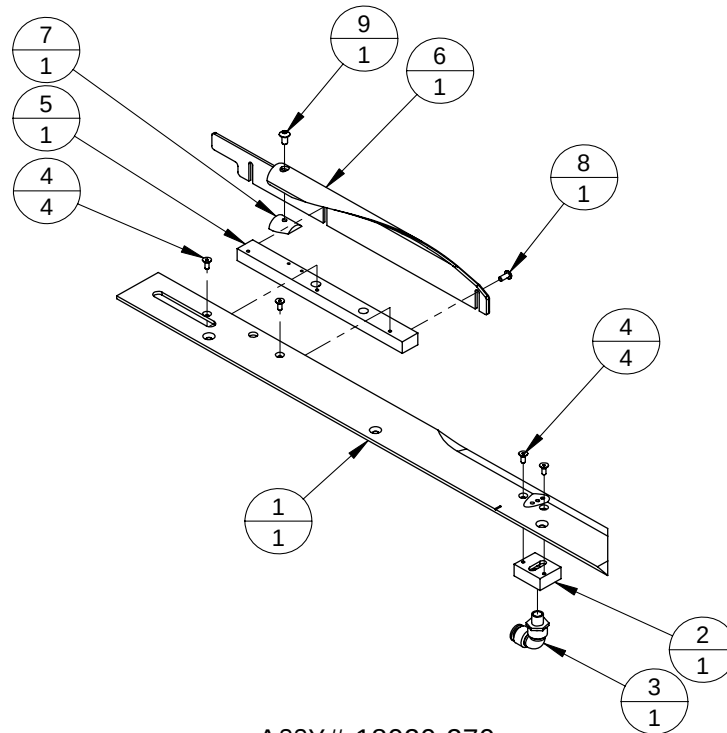
ASSY# 18020-094

**FRONT TABLE – TOP GUIDE (Fig. 1-20)
 GUIDE RAIL ASSEMBLIES**

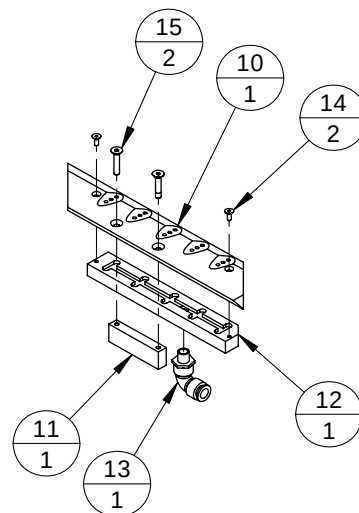
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-270	1	ASSEMBLY, INSERT GUIDE RAIL W/ CANOLLI
1	18011-032	1	RAIL, INSERTER GUIDE @ DISCHARGE
2	18007-081	1	BLOCK, MANIFOLD, FIXED
3	99028-084	1	FITTING, ELBOW, 3/8 TUBE X 1/8 NPT
4	-	4	SCREW, FLAT HEAD, #6-32 X 3/8
5	18007-052	1	BLOCK, ENVELOPE CLOSER MTG.
6	18005-179	1	CANNOLI (10X13)
7	18005-180	1	GUIDE, ENVELOPE FLATTENER
8	-	1	SCREW, BUTTON HEAD, #8-32 X 3/8
9	-	1	SCREW, BUTTON HEAD, #10-24 X 3/8
	18020-269	1	ASSEMBLY, ADJ. INSERT GUIDE RAIL
10	18011-033	1	RAIL, INSERT GUIDE (ADJ.)
11	18008-043	1	BAR, SLIDING NUT
12	18007-082	1	BLOCK, MANIFOLD
13	99028-084	1	FITTING, ELBOW, 3/8 TUBE X 1/8 NPT
14	-	2	SCREW, FLAT HEAD, #6-32 X 3/8
15	-	2	SCREW, SKT HEAD, #10-24 X 1

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ASSY# 18020-270



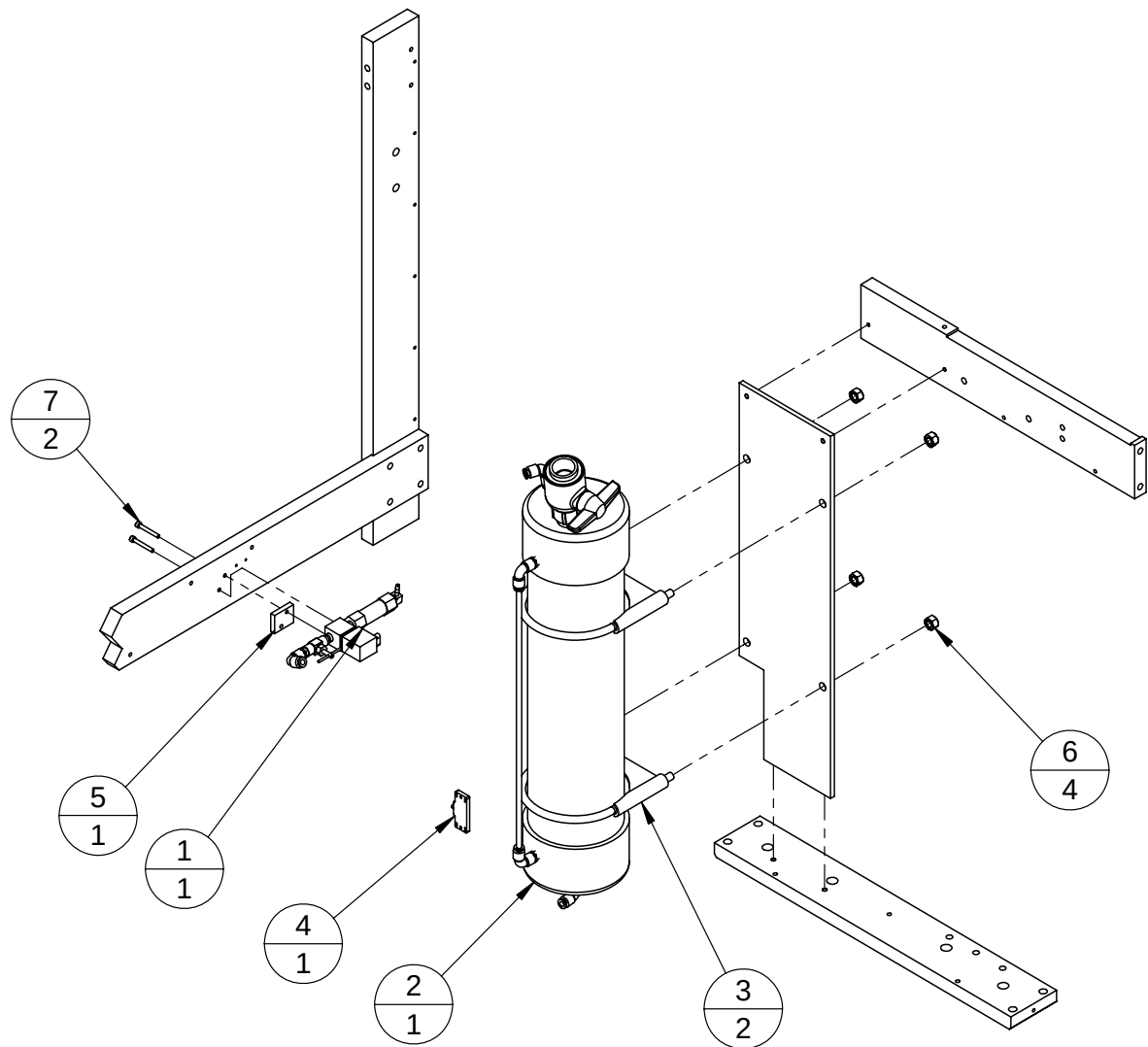
ASSY# 18020-269

**FRONT TABLE – WATER SUPPLY ASSEMBLY (Fig. 1-21)
(18020-035)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 1-22	1	ASSEMBLY, WATER SOLENOID (18020-083)
2	SEE FIG. 1-22	1	ASSEMBLY, WATER TANK (18020-084)
3	99024-001	2	U-BOLT, 4" PIPE
4	98009-019	1	SENSOR, WATER LEVEL
5	18012-019	1	SPACER, WATER SOLENOID
6	-	4	NUT, HEX, 3/8-16
7	-	2	SCREW, SKT HEAD, #8-32 X 1-1/4
8	99031-013	6 ft	HOSE, BLACK, 1/4 (NOT SHOWN)

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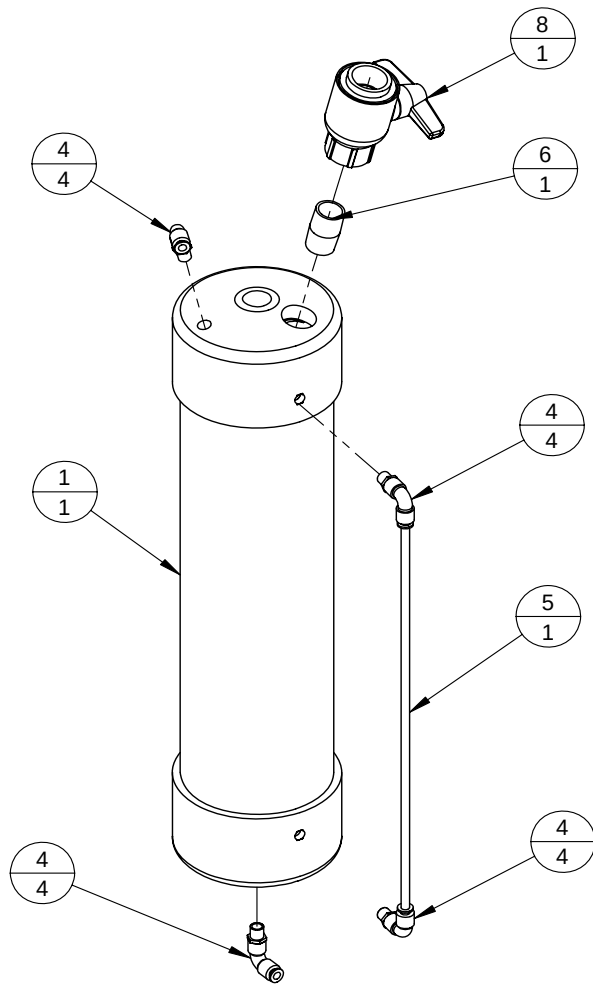


**FRONT TABLE – WATER SUPPLY (Fig. 1-22)
 TANK & SOLENOID ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-083	1	ASSEMBLY, WATER SOLENOID
1	99025-007	1	VLAVE, WATER SOLENOID, 24 VDC
2	99028-041	2	NIPPLE, CLOSE, 1/8
3	99028-044	1	VALVE, PETCOCK
4	99028-074	1	FITTING, ELBOW, 1/4 TUBE X 1/8 NPT
5	99027-003	1	STRAINER, 1/8 NPT
6	99028-043	1	BARB, ELBOW, 1/8 NPT X 1/8 TUBE
	18020-084	1	ASSEMBLY, WATER TANK
7	18019-008	1	WATER TANK
8	99028-074	4	FITTING, ELBOW, 1/4 TUBE X 1/8 NPT
9	99031-012	1	HOSE, CLEAR, 1/4
10	99028-081	1	NIPPLE, 3/4 NPT
11	99025-008	1	BALL VALVE, PVC-3/4 NPT

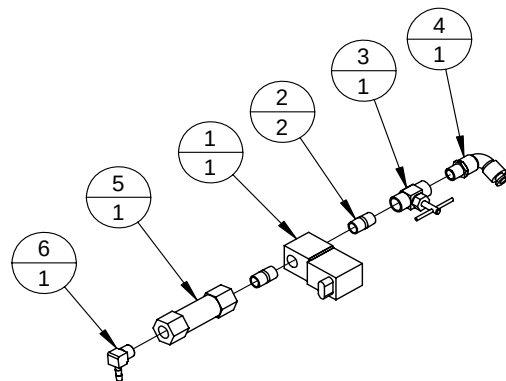
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ASSY# 18020-084

ASSY# 18020-083

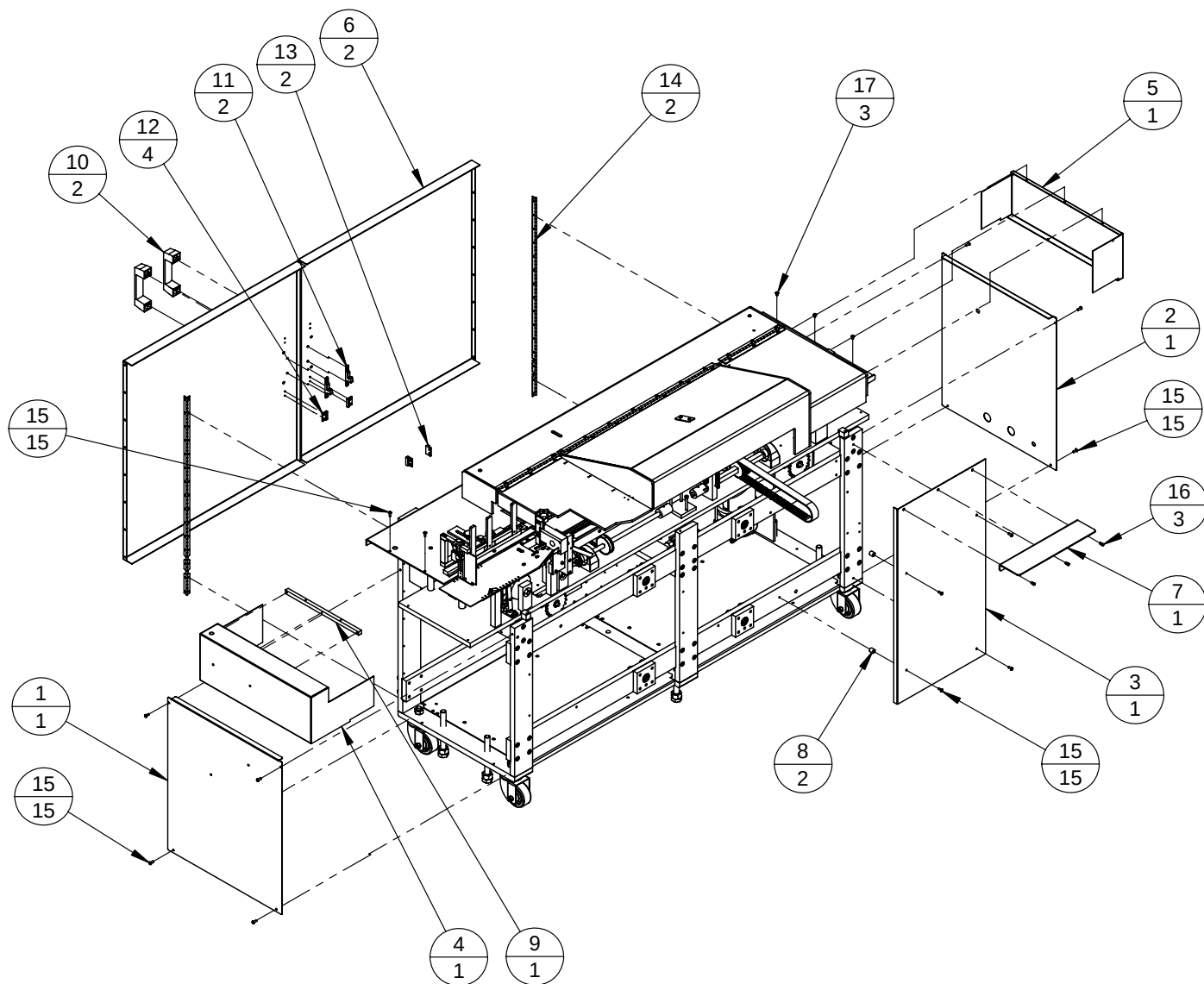


**FRONT TABLE – COVER ASSEMBLY (Fig. 1-23)
 (18020-018)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18013-007	1	COVER, END
2	18013-012	1	COVER, END (W/ HOLES)
3	18013-017	1	COVER, RH REAR
4	18013-015	1	COVER, END CAP, RH
5	18013-016	1	COVER, END CAP, LH
6	18013-021	2	DOOR, FRONT TABLE
7	18011-085	1	PLATE, SAFETY
8	18012-007	2	SPACER, FRONT TABLE
9	18008-025	1	BAR, END COVER MTG.
10	99012-001	2	HANDLE, DOOR
11	99013-001	2	LATCH, DOOR
12	98020-024	2	MAGNET, REED SWITCH
13	98000-036	4	SWITCH, REED
14	18013-013	2	HINGE, FRONT TABLE DOOR
15	-	15	SCREW, BUTTON HEAD, #10-24 X 1/2
16	-	3	SCREW, SKT HEAD, #8-32 X 3/8
17	-	3	SCREW, FLAT HEAD, #10-24 X 3/8

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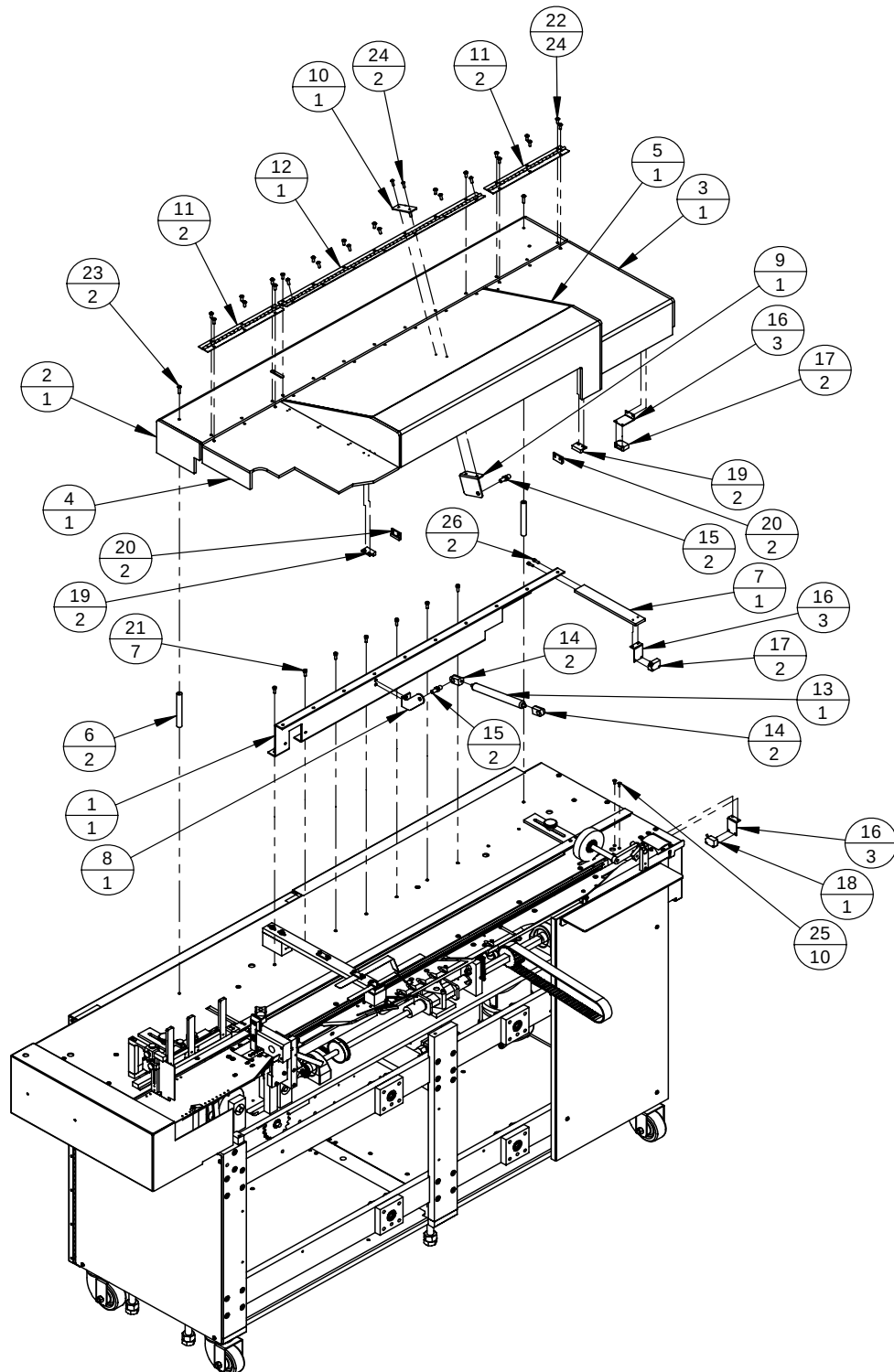


**FRONT TABLE – COVER ASSEMBLY CONTINUED (Fig. 1-24)
(18020-018)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18002-005	1	SUPPORT, MAIN COVER
2	18013-049	1	COVER, MAIN
3	18013-100	1	COVER, TOP LEFT
4	18013-114	1	COVER, TOP RIGHT
5	18013-099	1	COVER, TOP CENTER
6	18012-027	2	STANDOFF, MAIN COVER
7	18009-074	1	BAR, SENSOR MTG,
8	18009-048	1	BRACKET, GAS SHOCK, LOWER
9	18009-047	1	BRACKET, GAS SHOCK, UPPER
10	18011-087	1	PLATE, STUD
11	18013-082	2	HINGE, 10" LONG
12	18013-079	1	HINGE, 26" LONG
13	99014-007	1	GAS SPRING
14	99014-005	2	END FITTING, BALL SOCKET
15	99014-009	2	BALL STUD, 10MM
16	99018-008	3	BRACKET, SENSOR MTG.
17	98009-002	2	SENSOR, SENDER, THRU BEAM
18	98009-037	1	SENSOR, RECIEVER, THRU BEAM
19	98000-036	2	SWITCH, REED
20	98020-024	2	MAGNET, REED SWITCH
21	-	7	SCREW, SKT HEAD, #10-24 X 1/2
22	-	24	SCREW, BUTTON HEAD, #10-24 X 3/8
23	-	2	SCREW, BUTTON HEAD, #10-24 X 3/4
24	-	2	SCREW, BUTTON HEAD, #8-32 X 1/2
25	-	2	SCREW, FLAT HEAD, #6-32 X 3/8
26	-	2	SCREW, SKT HEAD, #8-32 X 1/2

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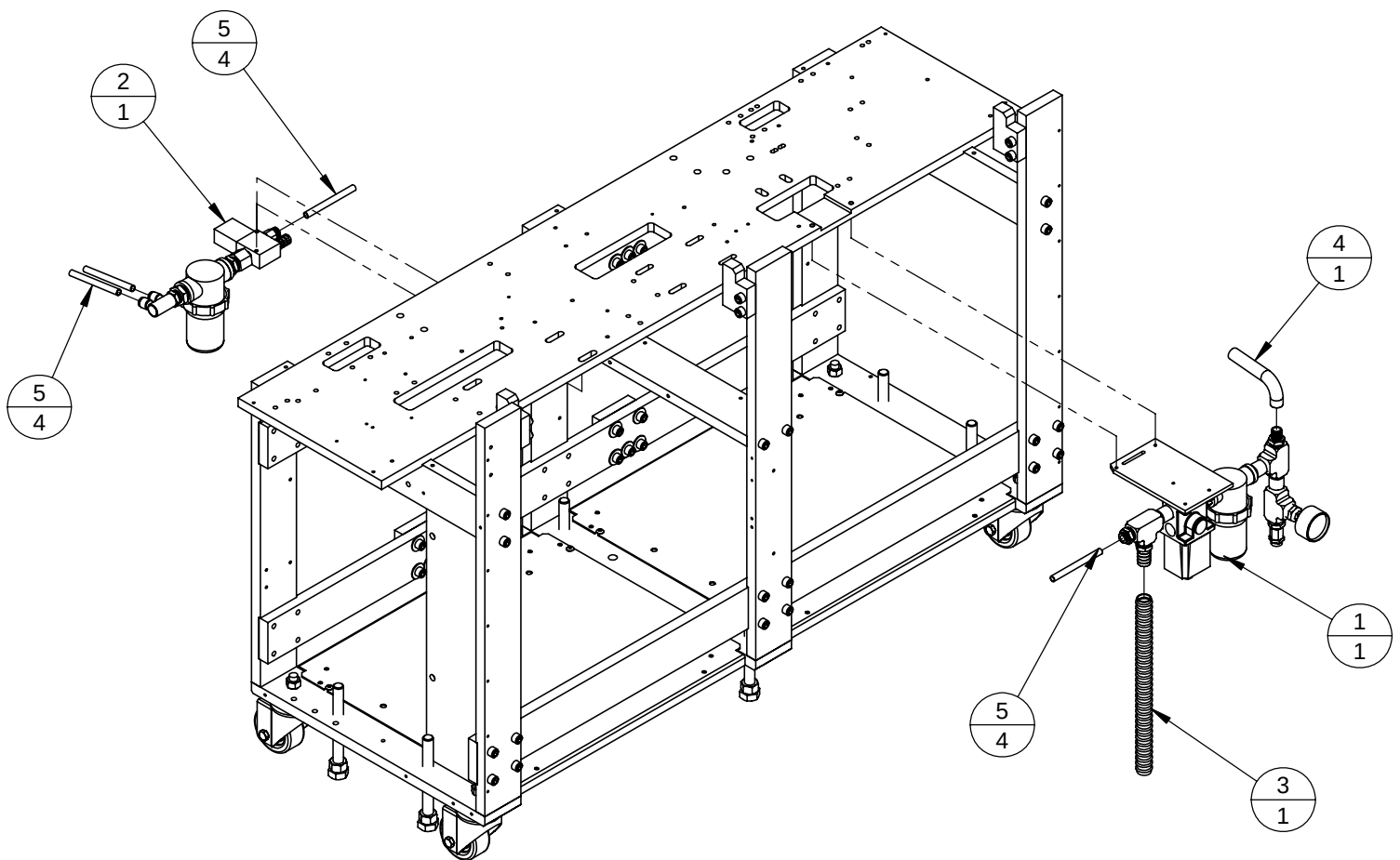


FRONT TABLE – PNEUMATICS (Fig. 1-25)

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 1-26	1	ASSEMBLY, ENVELOPE VACUUM VALVE (18020-351)
2	SEE FIG. 1-26	1	ASSEMBLY, INSERT AIR VALVE (18020-350)
3	99031-022	1	HOSE, YELLOW, 3/4 ID
4	99031-023	1	HOSE, REINFORCED PVC, 5/8 ID
5	99031-010	4	TUBING, BLUE, 3/8 OD

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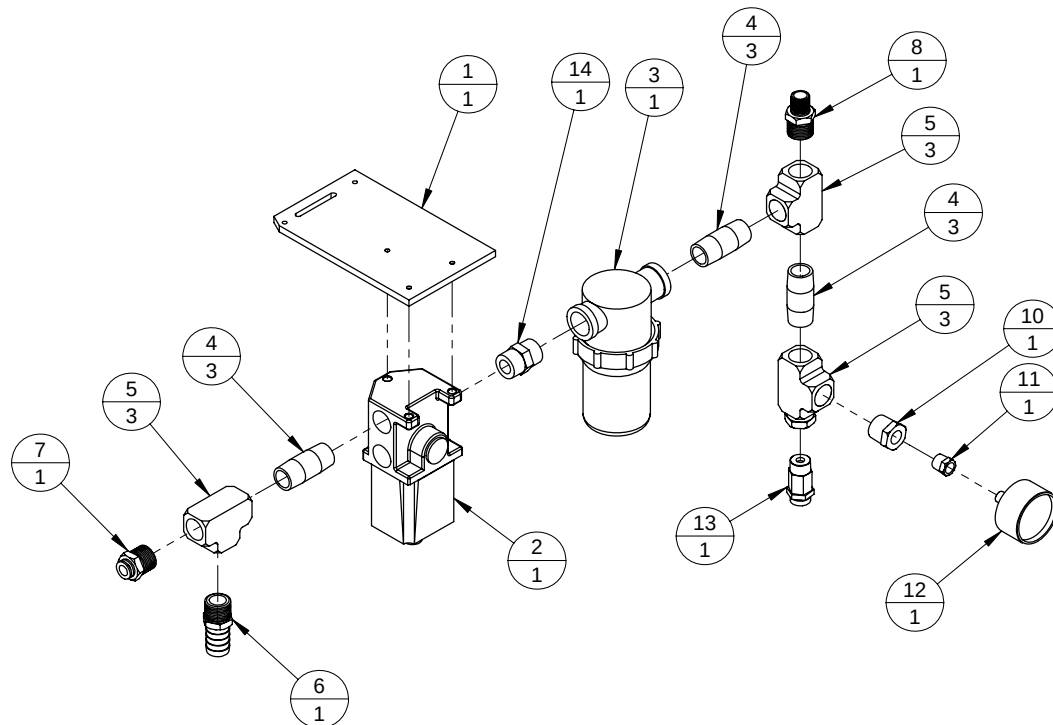


**FRONT TABLE – PNEUMATICS (Fig. 1-26)
 VACUUM VALVE ASSEMBLIES**

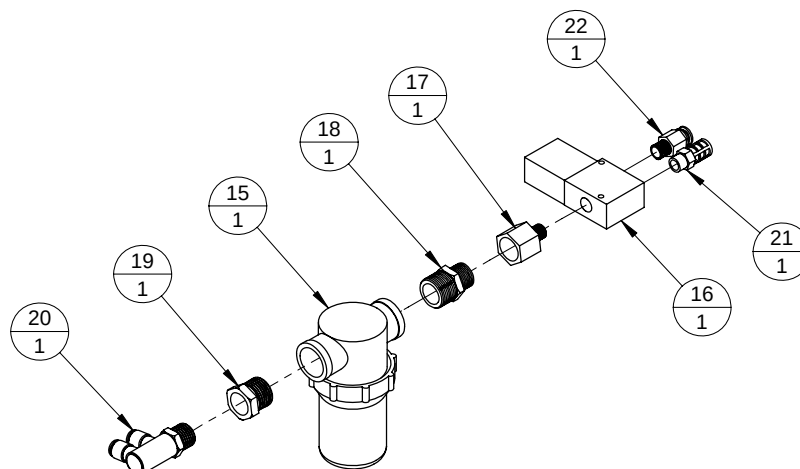
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-351	1	ASSEMBLY, ENVELOPE VACUUM VALVE
1	18011-099	1	PLATE, FILTER MTG.
2	99025-033	1	VALVE, SOLENOID, 1/2 NPT, 120 VAC
3	99027-001	1	FILTER, VACUUM, 1/2 NPT - FEMALE
4	99028-039	3	NIPPLE, 1/2 NPT X 2
5	99028-171	3	FITTING, BRASS TEE, 1/2 NPT
6	99028-170	1	FITTING, HOSE BARB, 1/2 NPT X 3/4 HOSE
7	99028-172	1	FITTING, MALE CONNECTOR, 1/2 NPT X 3/8 TUBE
8	99028-168	1	FITTING, REDUCING NIPPLE, 1/2 X 3/8 NPT
9	99028-177	1	FITTING, REDUCING BUSHING, 1/2 M-NPT X 3/8 F-NPT
10	99028-178	1	FITTING, REDUCING BUSHING, 1/2 M-NPT X 1/4 F-NPT
11	99028-120	1	FITTING, REDUCING BUSHING, 1/4 M-NPT X 1/8 F-NPT
12	99030-007	1	GAUGE, VACUUM, 1/8 NPT, 0-31 IN. HG
13	99025-009	1	VALVE, VACCUM RELIEF
14	99028-072	1	NIPPLE, HEX, 1/2 NPT
	18020-350	1	ASSEMBLY, INSERT VACUUM VALVE
15	99027-013	1	FILTER, VACUUM, 3/4 NPT FEMALE
16	99025-006	1	VALVE, VACUUM SOLENOID, 24 VDC
17	99028-175	1	FITTING, ADAPTOR, 1/2 F-NPT X 1/4 M-NPT
18	99028-176	1	FITTING, NIPPLE REDUCER, 3/4 X 1/2 NPT
19	99028-037	1	FITTING, REDUCING BUSHING, 3/4 M-NPT X 1/2 F-NPT
20	99028-174	1	FITTING, DOUBLE MALE ELBOW, 1/2 NPT X 3/8 TUBE
21	99028-006	1	MUFFLER, 1/4 NPT
22	99028-017	1	FITTING, MALE CONNECTOR, 1/4 NPT X 3/8 TUBE

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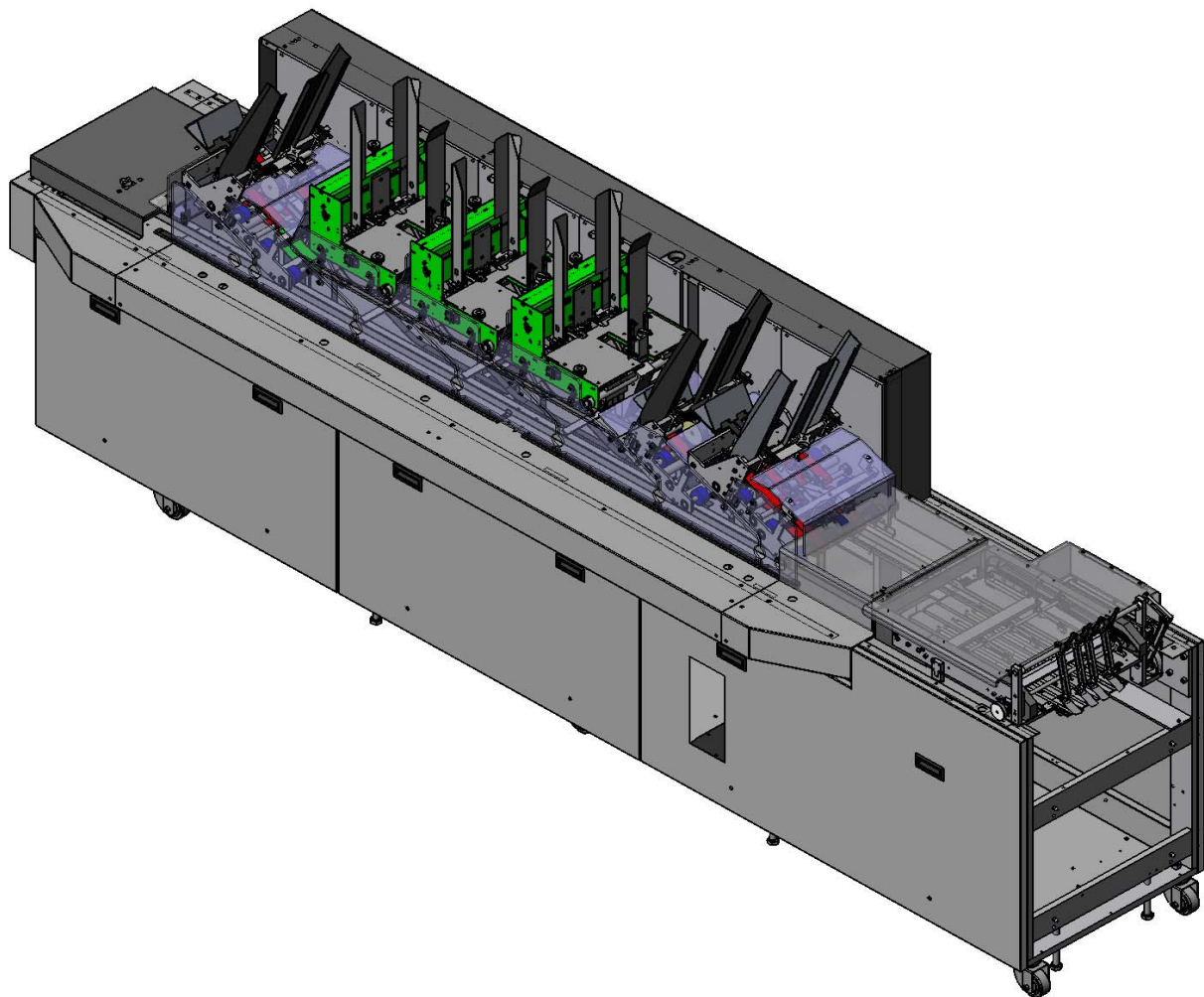


ASSY # 18020-351



ASSY# 18020-350

COLLATOR CONVEYOR ROTARY



**COLLATOR – FRAME ASSEMBLY (Fig. 2-1)
(18020-371)**

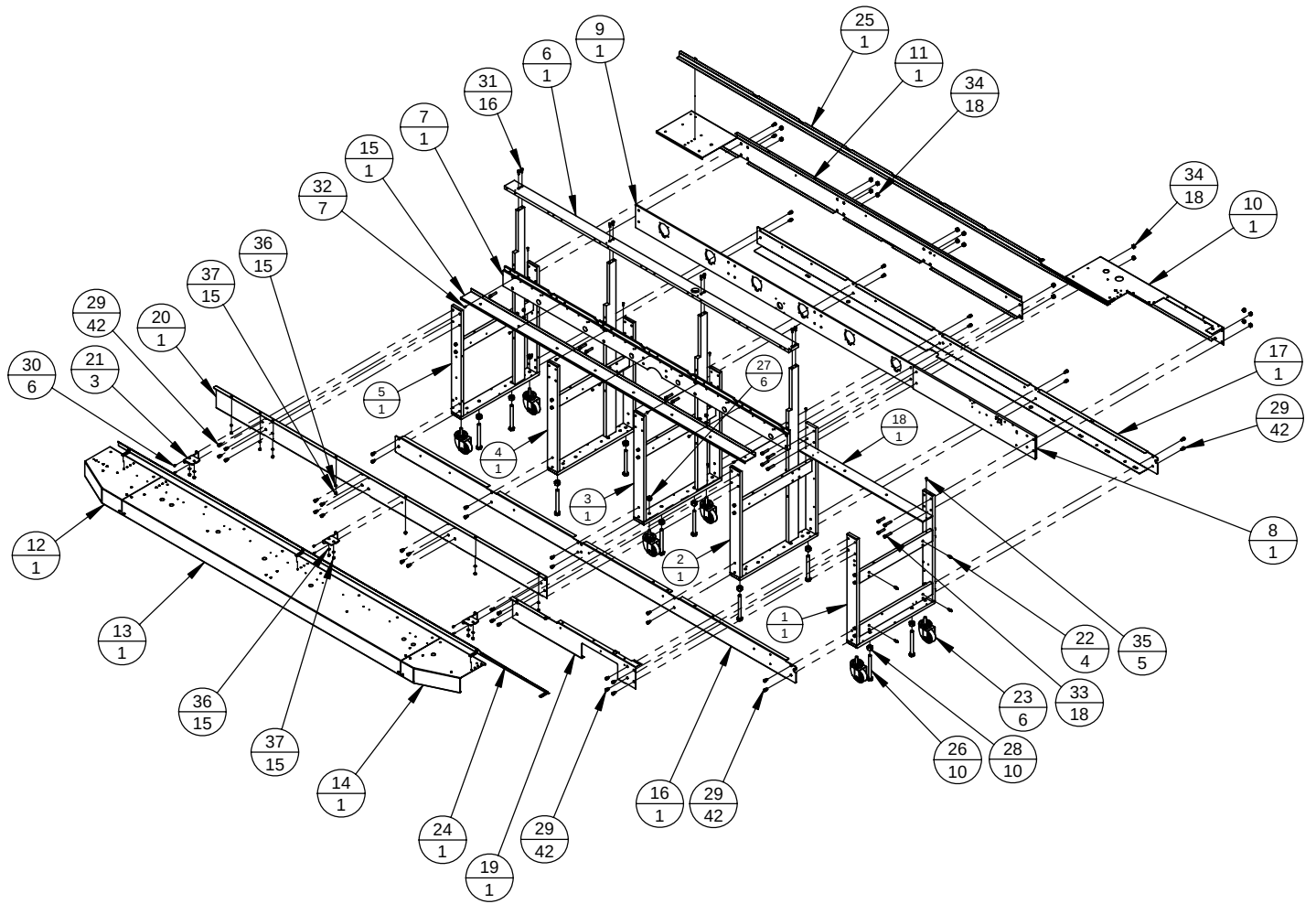
ITEM	PART NO.	QTY.	DESCRIPTION
1	18020-253	1	ASSEMBLY, FRONT LEG
2	18020-254	1	ASSEMBLY, RH LEG @ PNEUMATICS
3	18020-255	1	ASSEMBLY, LH LEG
4	18020-256	1	ASSEMBLY, RH LEG
5	18020-257	1	ASSY, LH LEG @ SPLICE
6	18008-102	1	BAR, FEEDER MTG. SUPPORT, 16K
7	18011-092	1	PLATE, CLUTCH MTG, 16K, 6-ST
8	18011-065	1	PLATE, PUSHER DRIVE MTG.
9	18011-050	1	PLATE, CLUTCH MTG, FRONT
10	18001-068	1	COVER, TOP, LH FRONT
11	18001-046	1	COVER, TOP, LH REAR
12	18001-082	1	COVER, TOP, REAR JOGGING DECK
13	18001-080	1	COVER, TOP, CENTER JOGGING DECK
14	18001-081	1	COVER, TOP, FRONT JOGGING DECK
15	18001-048	1	COVER, TOP, INNER, 16K
16	18001-015	1	COVER, LOWER, RH REAR
17	18001-016	1	COVER, LOWER, LH REAR
18	18008-069	1	BAR, WIREWAY MTG, FRONT
19	18002-012	1	SUPPORT, FRONT JOGGING DECK
20	180012-013	1	SUPPORT, CENTER JOGGING DECK
21	18009-111	3	BRACKET, JOGGING DEC SUPPORT
22	99006-005	4	PIN, ALIGNMENT
23	99010-005	6	CASTOR, 1/2-13 STEM
24	18005-088	1	GUIDE, COLLATOR SIDE, RH
25	18005-167	1	GUIDE, COLLATOR SIDE, LH

COLLATOR – FRAME ASSEMBLY (Fig. 2-1)
(18020-371)

ITEM	PART NO.	QTY.	DESCRIPTION
26	-	10	BOLT, HEX HEAD, 5/8-11 X 6
27	-	6	NUT, HEX, 1/2-13
28	-	10	NUT, HEX, 5/8-11
29	-	42	BOLT, SKT HEAD, 3/8-16 X 1/2
30	-	6	SCREW, SKT HEAD, #10-24 X 3/8
31	-	16	BOLT, SKT HEAD, 5/16-18 X 5/8
32	-	7	SCREW, BUTTON HEAD, #10-32 X 3/8
33	-	18	BOLT, SKT HEAD, 3/8-16 X 1-5/8
34	-	18	NUT, HEX, 3/8
35	-	5	SCRWE, SKT HEAD, #10-24 X 1/2
36	-	15	WASHER, FLAT, 1/4
37	-	15	NUT, HEX, 1/4-20

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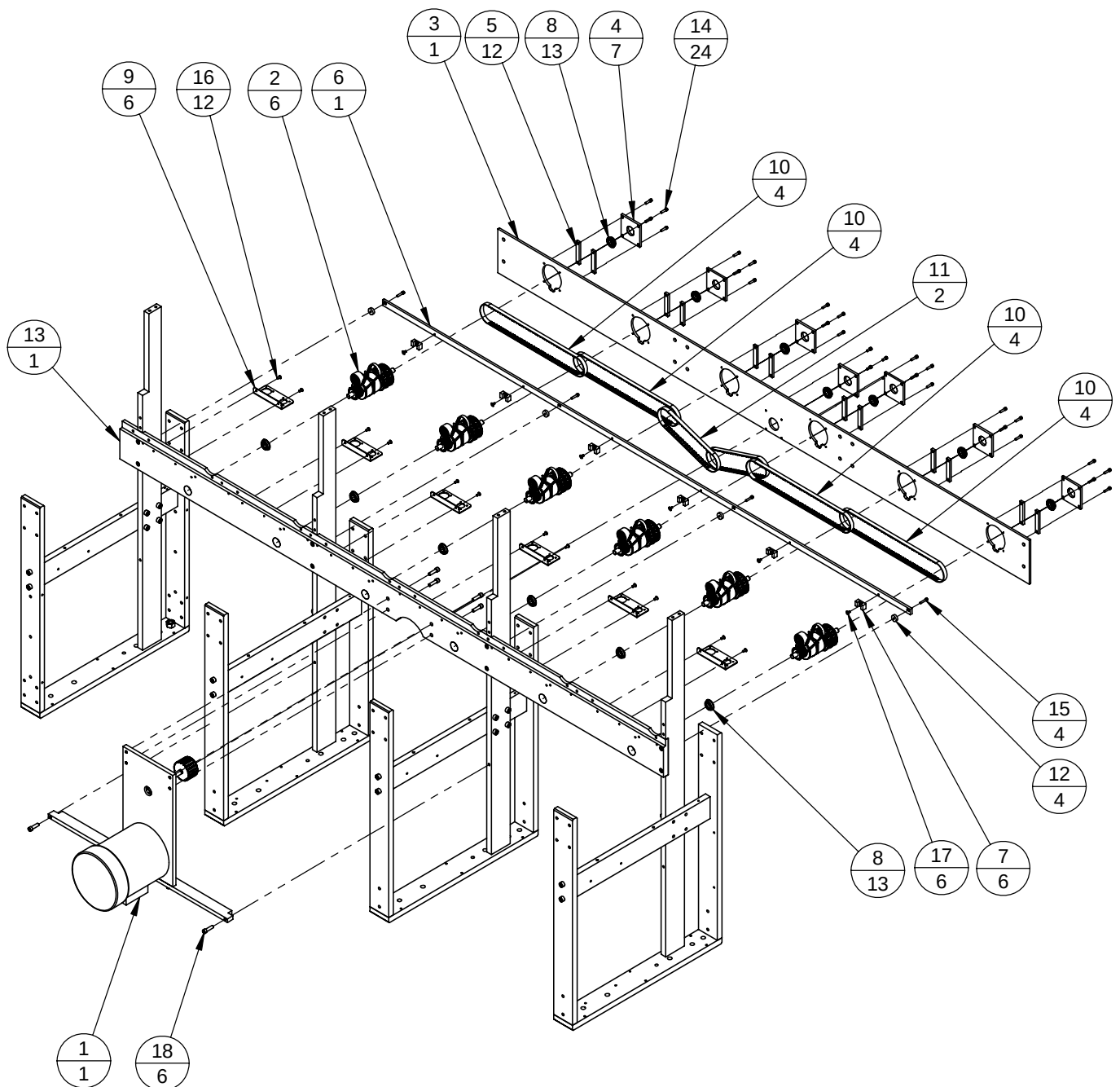


**COLLATOR – FEEDER DRIVE ASSEMBLY (Fig. 2-2)
(18020-202)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 2-4	1	ASSEMBLY, MOTOR
2	SEE FIG. 2-3	6	ASSEMBLY, CLUTCH AND TENSIONER
3	18011-050	1	PLATE, CLUTCH MTG, FRONT
4	18007-051	7	BLOCK, BEARING
5	18012-032	12	SPACER, CLUTCH BEARING BLOCK
6	18008-029	1	BAR, CLUTCH STOP
7	18007-109	6	BLOCK, CLUTCH STOP
8	99003-007	14	BEARING, 1/2 X 1-1/8, SEALED W/ S.R.
9	18009-065	6	BRACKET RECEPTACLE MTG.
10	99000-026	4	BELT, TIMING, 360L075
11	99000-025	2	BELT, TIMING, 225L050
12	16012-003	4	SPACER, CLUTCH STOP BAR
13	18011-092	1	PLATE, CLUTCH MTG, 16K
14		24	SCREW, SKT HEAD, #10-24 X 3/4
15		4	SCREW, SKT HEAD, #10-24 X 7/8
16		12	SCREW, BUTTON HEAD, #10-24 X 3/8
17		6	SCREW, FLAT HEAD, #10-32 X 3/8
18		6	SCREW, SKT HEAD, 5/16-18 X 1-1/8

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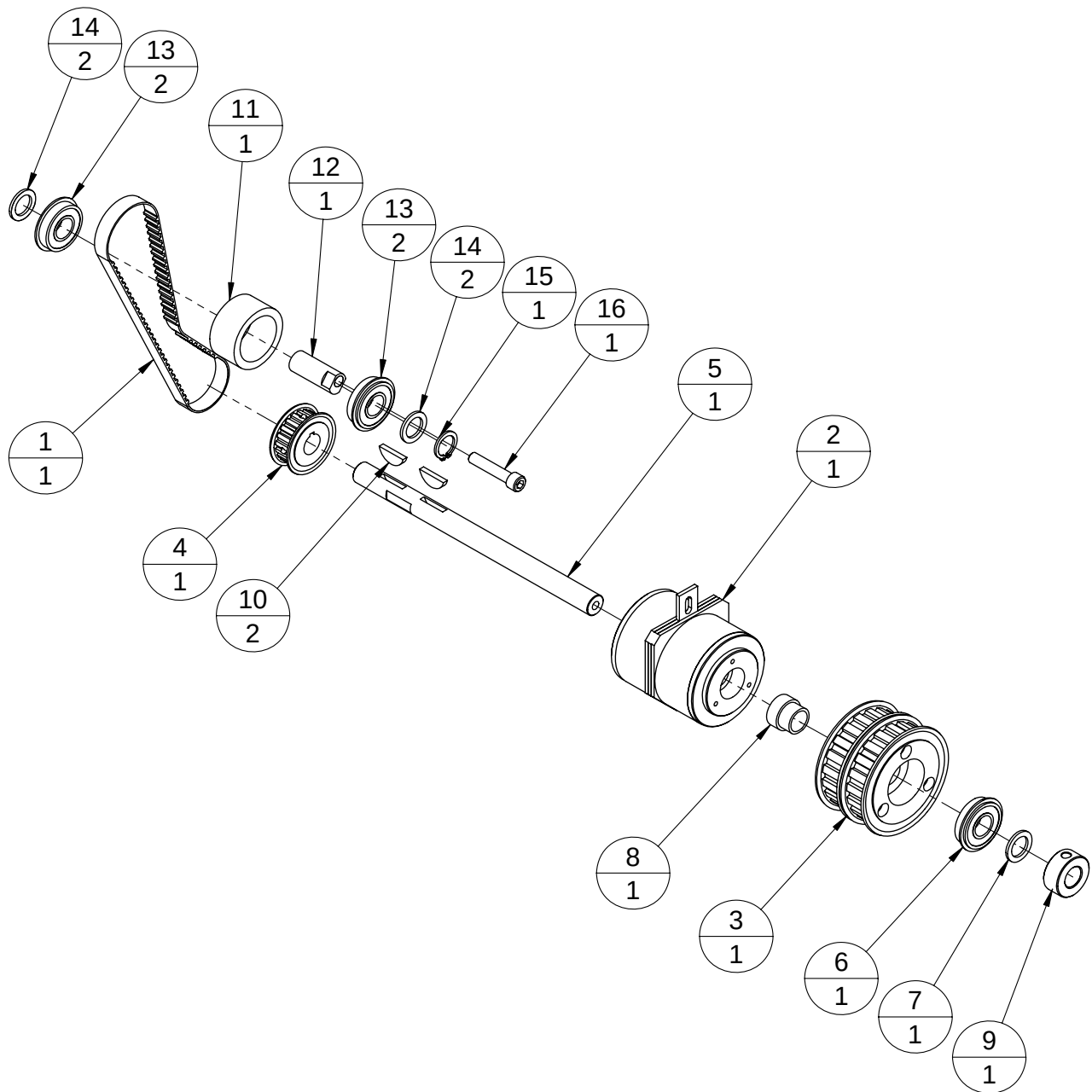


**COLLATOR – FEEDER DRIVE (Fig. 2-3)
 CLUTCH / TENSIONER ASSEMBLY**

ITEM	PART NO.	QTY.	DESCRIPTION
1	99000-027	1	BELT, TIMING, 160XL037
	18020-074	6	ASSEMBLY, CLUTCH, 24V
2	99008-006	1	CLUTCH, FEEDER, 24V
3	18006-008	1	PULLEY, DOUBLE, 20L075
4	99002-054	1	PULLEY, TIMING, 20XL037
5	18004-015	1	SHAFT, CLUTCH
6	99003-007	1	BEARING, 1/2 X 1-1/8, SEALED W/ S.R.
7	99003-018	1	WASHER, NYLON, 1/2 X 1/16
8	10006-029	1	BUSHING, CLUTCH PULLEY
9	99017-004	1	COLLAR, 1/2" SHAFT
10	99034-001	2	KEY, WOODRUF, 1/8 X 3/4
	18020-244	6	ASSEMBLY, TENSIONER
11	18006-011	1	PULLEY, FLAT IDLER, 3/4" W
12	18004-087	1	SHAFT, STUB IDLER
13	99003-007	2	BEARING, 1/2 X 1-1/8, SEALED W/ S.R.
14	99003-018	1	WASHER, NYLON, 1/2 X 1/16
15	99022-004	1	SNAP RING, 1/2
16		1	SCREW, SKT HEAD, 1/4-20 X 1-1/2

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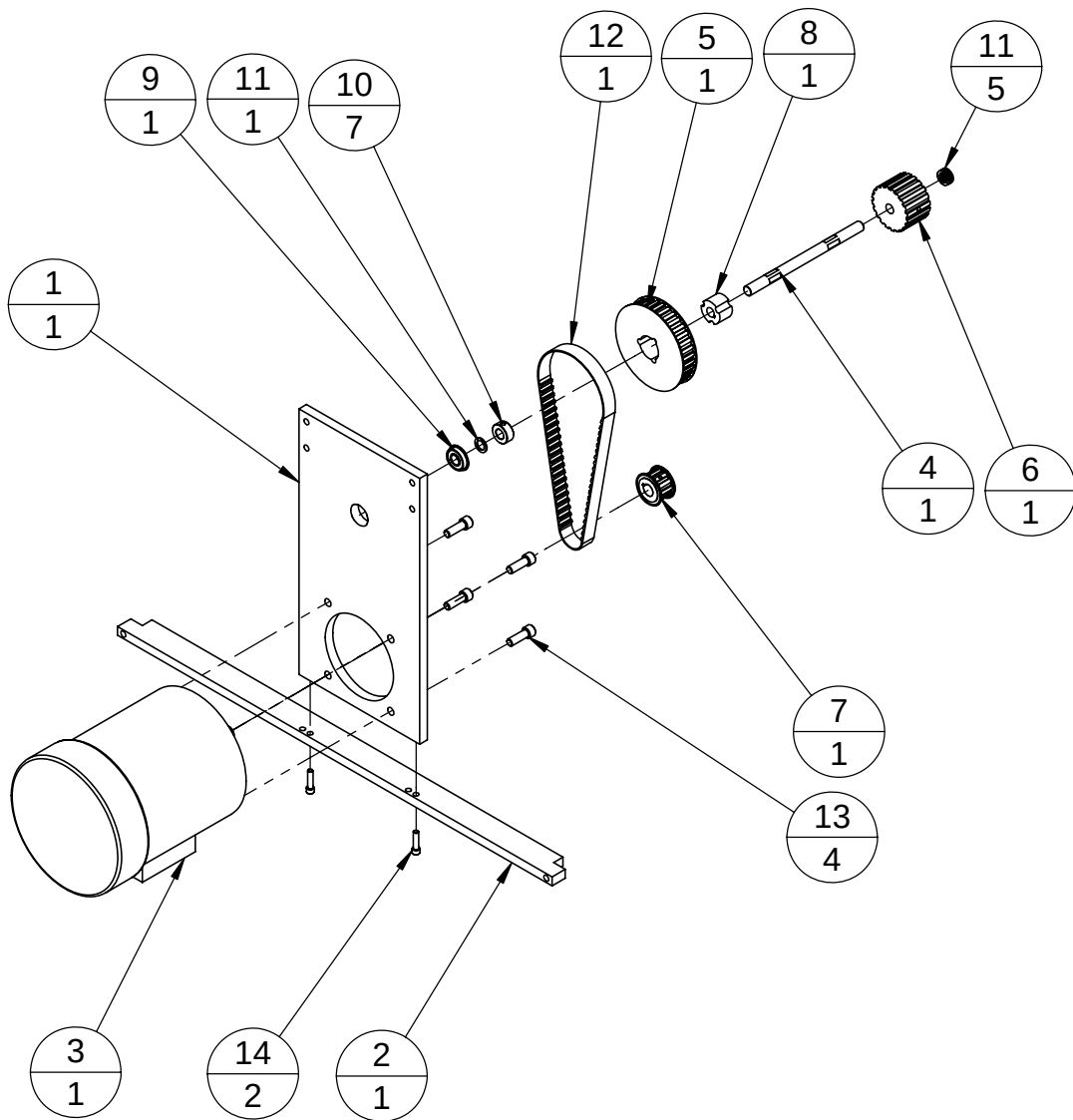


**COLLATOR – FEEDER DRIVE (Fig. 2-4)
 MOTOR ASSEMBLY**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18011-003	1	PLATE, MOTOR MTG
2	18008-028	1	BAR, MOTOR MTG SUPPORT
3	99001-006	1	MOTOR, 3/4 HP, 56C
4	18004-088	1	SHAFT, INTERMEDIATE, 16K
5	99002-065	1	PULLEY, TIMING, 36L075 (1610 TAPERLOCK)
6	18006-017	1	PULLEY, DOUBLE, 20L050, 1/2B
7	99002-055	1	PULLEY, TIMING, 12L075, 5/8B
8	99017-026	1	BUSHING, TAPERLOCK, 1610, 1/2B
9	99003-007	1	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
10	99017-004	1	COLLAR, 1/2
11	99003-018	6	WASHER, NYLON, 1/2 X 1/16
12	99000-028	1	BELT, TIMING, 255L075
13		4	SCREW, SKT HEAD, 3/8-16 X 1-1/4
14		2	SCREW, SKT HEAD, 1/4-20 X 1

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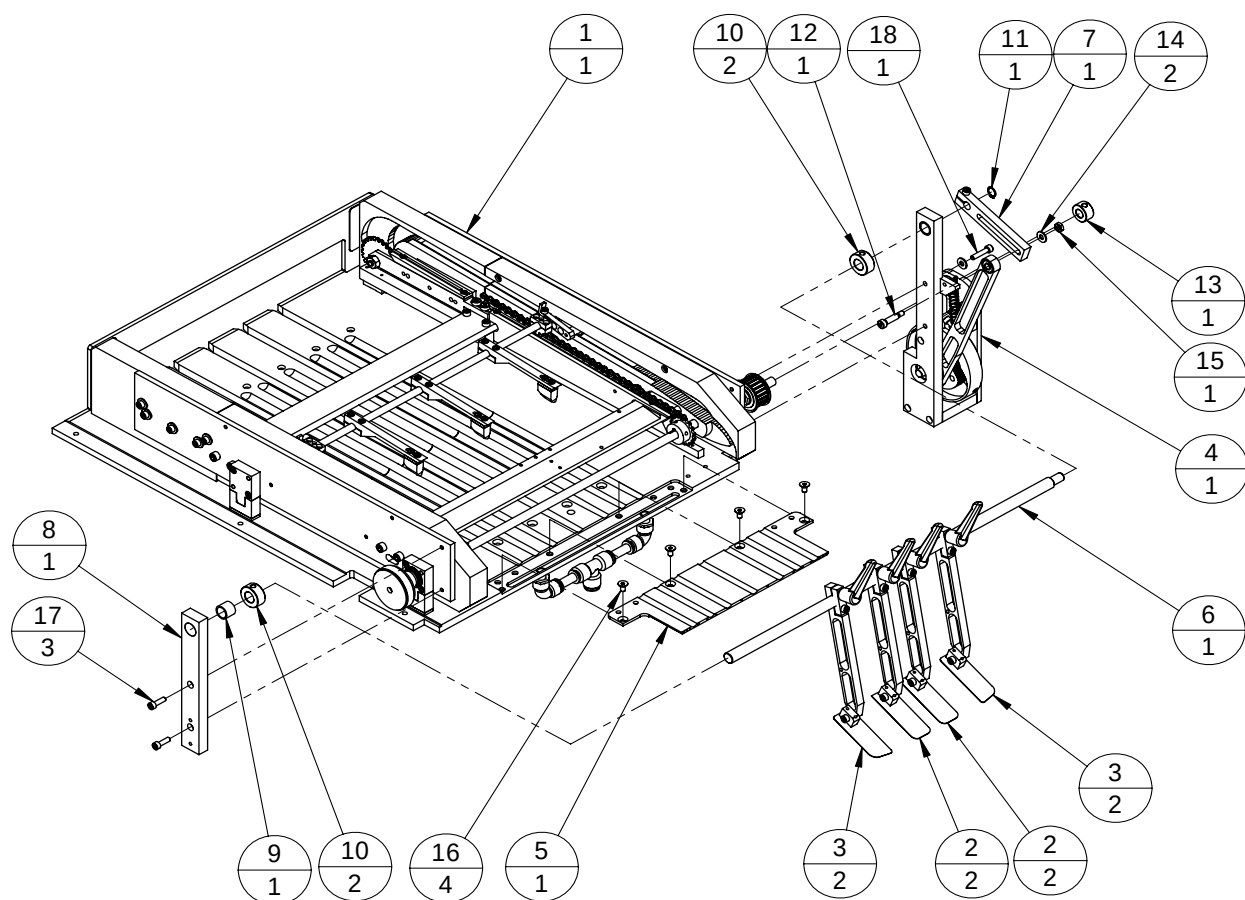


**COLLATOR – PUSHER ASSEMBLY (Fig. 2-5)
 (18020-203)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 2-6	1	ASSY, PUSHER FRAME (18020-359)
2	SEE FIG. 2-10	1	ASSY, ENTERING FINGER, INNER (18020-245)
3	SEE FIG. 2-10	1	ASSY, ENTERING FINGER, OUTER (18020-246)
4	SEE FIG. 2-9	3	ASSY, FINGER DRIVE (18020-204)
5	18005-012	1	PLATE, PUSHER GUIDE EXTENSION
6	18004-090	1	SHAFT, ENTERING FINGER
7	18008-015	1	BAR, FINGER LINK
8	18008-113	1	BAR, FINGER SUPPORT, RH
9	99003-031	1	BUSHING, 1/2 X 5/8 X 1/2
10	99017-004	2	COLLAR, 1/2 SHAFT
11	99022-003	1	SNAP RING, 3/8
12	99033-016	1	SHOULDER BOLT, 3/8 X 1/2
13	99017-003	1	COLLAR, 3/8 SHAFT
14		2	FLAT WASHER, #10
15		1	HEX NUT, #10-24
16		4	SCREW, FLAT HEAD, #10-32 X 3/8
17		3	SCREW, SKT HEAD, #10-32 X 5/8
18		1	SCREW, SKT HEAD, #10-32 X 7/8

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COLLATOR – PUSHER (Fig. 2-6)
PUSHER FRAME ASSEMBLY (18020-359)

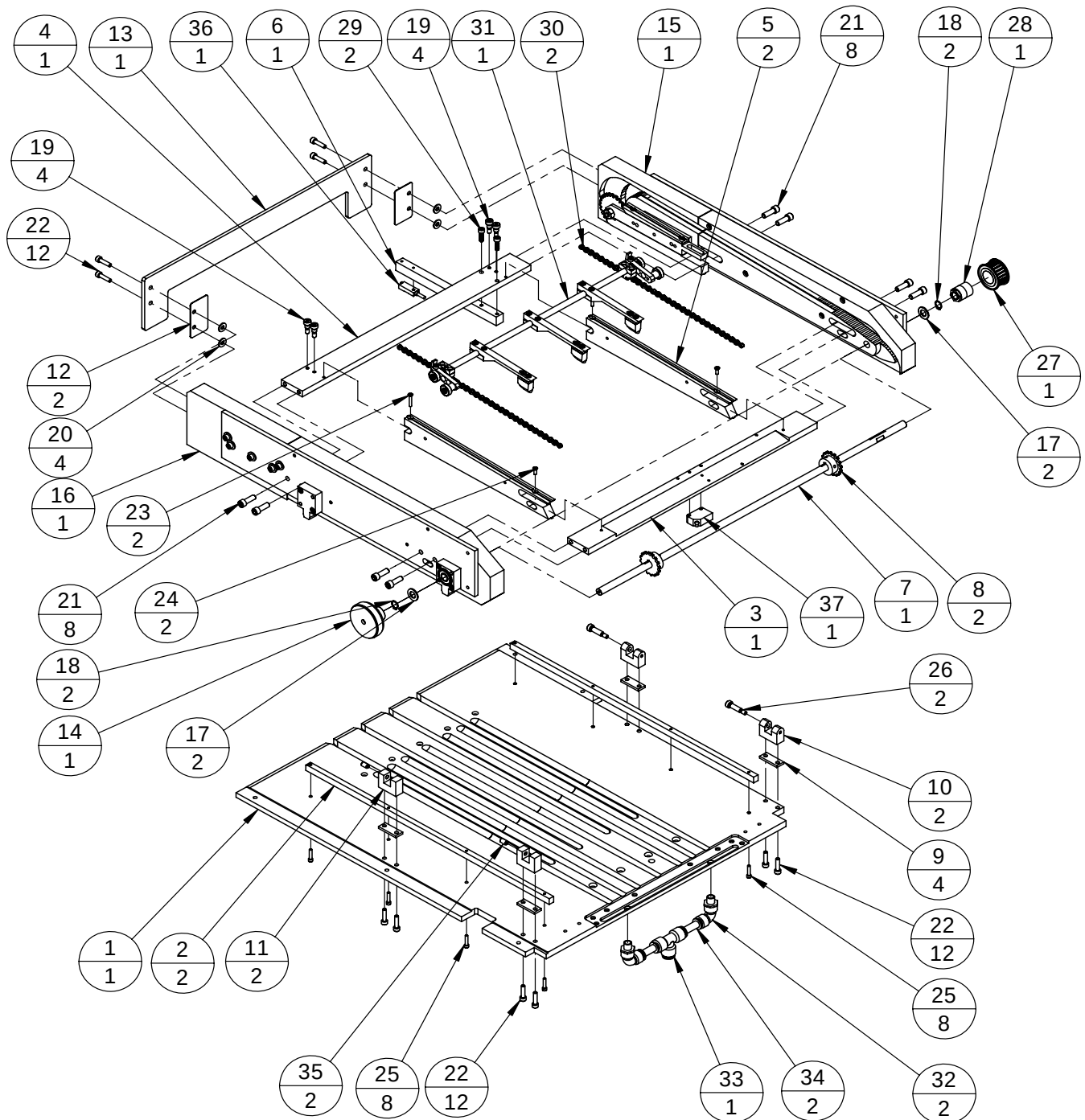
ITEM	PART NO.	QTY.	DESCRIPTION
1	18005-034	1	PLATE, PUSHER GUIDE (10X13)
2	18005-093	2	GUIDE, CAM ROLLER (LOWER)
3	18003-018	1	CROSSBAR, PUSHER, FRONT (10X13)
4	18003-017	1	CROSSBAR, PUSHER, REAR
5	18005-007	2	GUIDE, PUSHER CHAIN, FRONT
6	18008-149	1	BAR, HOME SENSOR MTG.
7	18004-045	1	SHAFT, PUSHER DRIVE
8	18015-002	2	SPROCKET, DRIVE
9	18012-023	4	SPACER, PUSHER ASSY
10	18007-001	2	BLOCK, PIVOT
11	18007-002	2	BLOCK, LATCH
12	18005-041	2	GUIDE, SPRING STEEL, ANTI-FLIP
13	18013-032	1	GUARD, REAR PUSHER
14	18020-175	1	ASSY, PUSHER RESET KNOB
15	SEE FIG. 2-7	1	ASSY, PUSHER GUIDE, LH (18020-258)
16	SEE FIG. 2-7	1	ASSY, PUSHER GUIDE, RH (18020-259)
17	99003-017	2	WASHER, NYLON, 3/8 X 1/16
18	99022-003	2	SNAP RING, 3/8
19	99033-006	4	SHOULDER BOLT, 1/4 X 1/4
20		4	WASHER, FLAT, #10
21		8	SCREW, SKT HEAD, 1/4-20 X 5/8
22		12	SCREW, SKT HEAD, #10-24 X 3/4
23		2	SCREW, FLAT HEAD, #6-32 X 7/8
24		2	SCREW, FLAT HEAD, #6-32 X 3/7
25		8	SCREW, SKT HEAD, #6-32 X 5/8
26	99033-005	2	SHOULDER BOLT, 1/4 X 3/4
27	18006-079	1	PULLEY, 22-5GT-15, 3/4B
28	99017-013	1	TRANTORQUE, 3/8
29		2	SCREW, SKT HEAD, #10-24 X 5/8
30	SEE FIG. 2-8	2	ASSY, CHAIN, 16K PUSHER (18014-045)

COLLATOR – PUSHER (Fig. 2-6)
PUSHER FRAME ASSEMBLY (18020-359)

ITEM	PART NO.	QTY.	DESCRIPTION
31	SEE FIG. 2-8	1	ASSY, PUSHER ARM SHAFT (18020-247)
32	99028-084	2	FITTING, ELBOW, 3/8 T X 1/8 NPT
33	99028-086	1	FITTING, TEE, 3/8 TUBE
34	99031-010	2	TUBING, BLUE, 3/8
35	99005-008	2	SPRING PLUNGER, 1/4-20 X 3/4
36	98009-028	1	SENSOR, PROXIMITY, MINI SURFACE MTG.
37	98009-037	1	SENSOR, RECEIVER, P&F THRU BEAM

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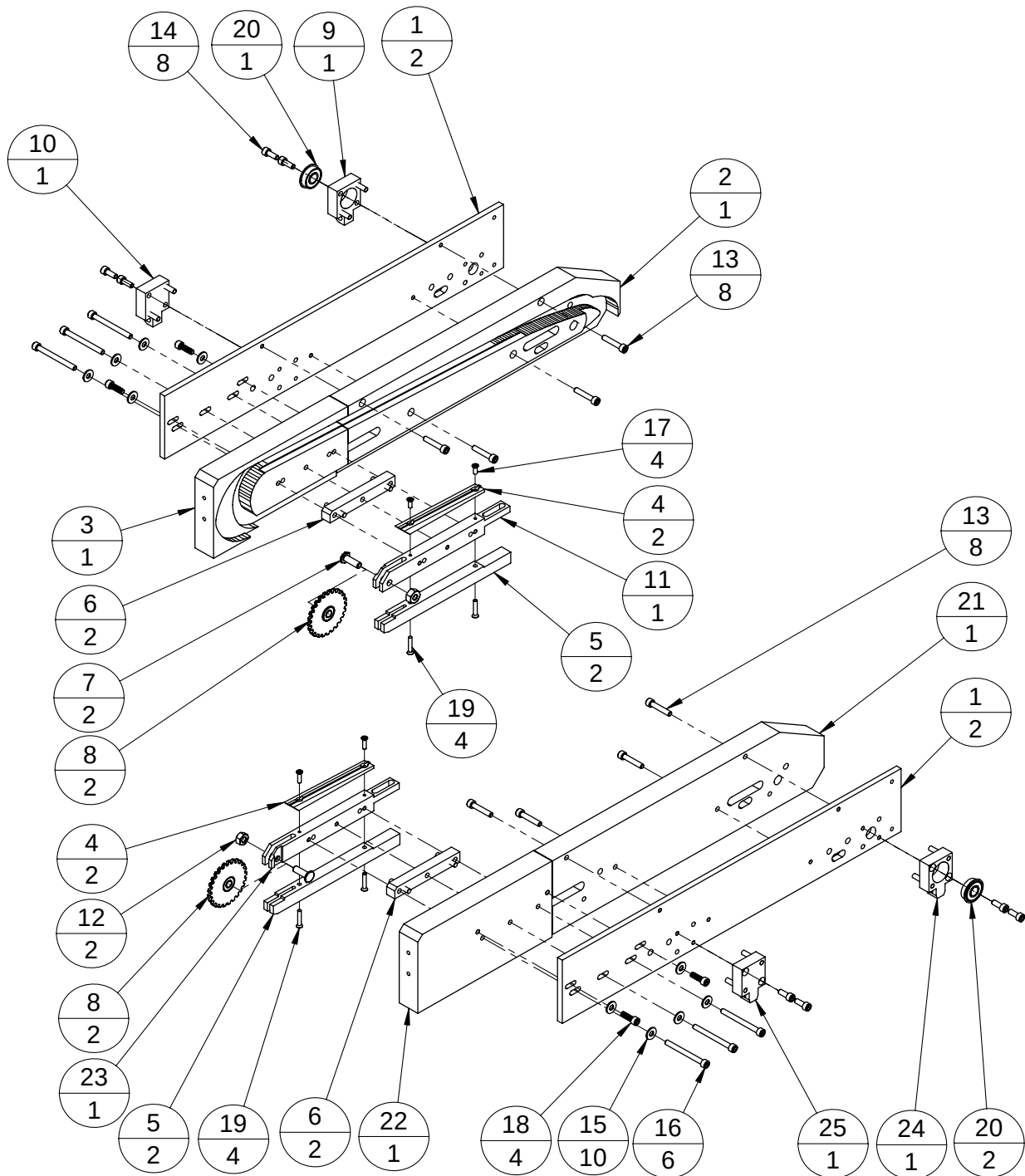


**COLLATOR – PUSHER (Fig. 2-7)
 RH (18020-259) AND LH (18020-258)
 PUSHER GUIDE ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18011-114	2	PLATE, PUSHER CAM MTG.
2	18016-001	1	CAM, PUSHER CONTROL, LH FRONT
3	18016-009	1	CAM, PUSHER CONTROL, LH REAR
4	18005-006	2	GUIDE, PUSHER CHAIN, UPPER REAR
5	18005-161	2	GUIDE, PUSHER CHAIN, LOWER REAR
6	18012-042	2	STANDOFF, PUSHER CHAIN MTG
7	18004-047	2	SHAFT, SCREW IDLER
8	18015-001	2	SPROCKET ASSY, IDLER, 25A24
9	18007-130	1	BLOCK, PIVOT (W/ BEARING), UPPER
10	18007-128	1	BLOCK, PIVOT, UPPER
11	18008-050	2	BAR, IDLER MTG, LH
12		2	NEX NUT, 1/4-20
13		8	SCREW, SKT HEAD, #10-24 X 1
14		8	SCREW, SKT HEAD, #10-24 X 1/2
15		10	WASHER, FLAT, #10
16		6	SCREW, SKT HEAD, #10-24 X 1-1/4
17		4	SCREW, FLAT HEAD, #6-32 X 3/8
18		4	SCREW, SKT HEAD, #10-24 X 5/8
19		4	SCREW, FLAT HEAD, #6-32 X 3/4
20	99003-020	2	BEARING, 3/8 X 7/8, SEALED W/ S.R.
21	18016-002	1	CAM, PUSHER CONTROL, RH FRONT
22	18016-010	1	CAM PUSHER CONTROL, RH REAR
23	18008-007	1	BAR, IDLER MTG, RH
24	18007-131	1	BLOCK, LATCH (W/ BEARING), UPPER
25	18007-129	1	BLOCK, LATCH, UPPER
26	99005-005	2	SPRING, COMPRESION (NOT SHOWN)

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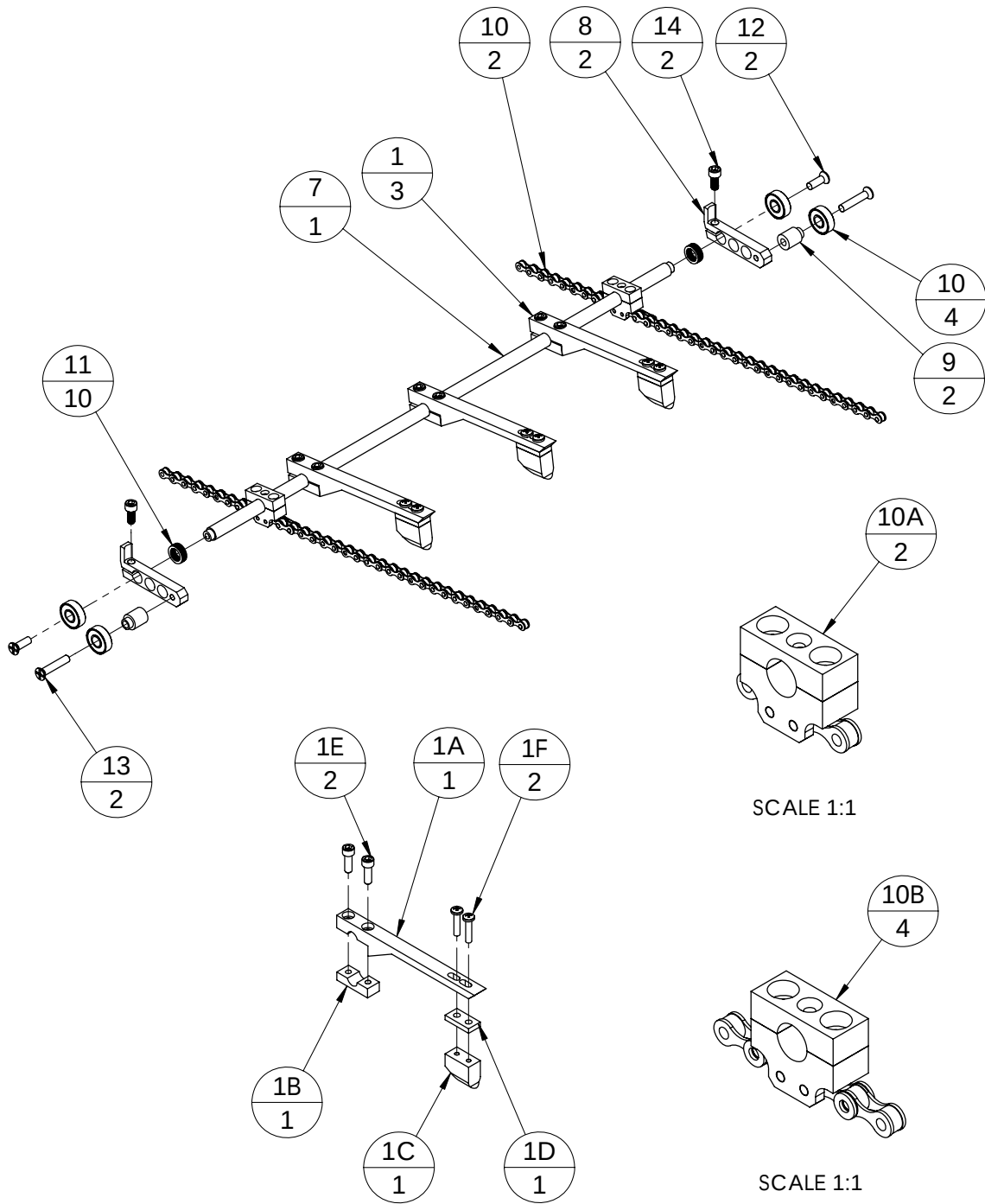


COLLATOR – PUSHER (Fig. 2-8)
PUSHER ARM SHAFT / CHAIN ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-247	1	ASSEMBLY, PUSHER ARM SHAFT
1	18020-050	3	ASSEMBLY, PUSHER ARM
1A	18008-009	1	BAR, PUSHER ARM
1B	18008-053	1	CLAMP, PUSHER ARM
1C	18007-015	1	BLOCK, PUSHER
1D	18012-022	1	SPACER, PUSHER BLOCK
1E		2	SCREW, SKT HEAD, #8-32 X 1/2
1F		1	SCREW, PAN HEAD, #6-32 X 5/8
2	18004-044	1	SHAFT, PUSHER
3	18008-010	2	BAR, PUSHER LINK
4	18006-004	2	SPACER, BEARING
5	99003-002	4	BEARING, 1/4 X 5/8 SEALED
6	99003-014	10	WASHER, NYLON, 5.16 X 1/32
7		2	SCREW, FLAT HEAD, #8-32 X 1/2
8		2	SCREW, FLAT HEAD, #8-32 X 7/8
9		2	SCREW, SKT HEAD, #8-32 X 3/8
10	18014-045	2	CHAIN ASSY, 16K PUSHER
10A	18014-025	2	ASSY, PUSHER CHAIN BLOCK
10B	18014-024	4	ASSY, PUSHER CHAIN BLOCK (W/ OFFSET LINK)
	18014-021	2	CHAIN, #25, 5-1/4" LONG (NOT SHOWN)
	18014-046	2	CHAIN, #25, 8-1/4" LONG (NOT SHOWN)
	18014-047	2	CHAIN, #25, 1-3/4" LONG (NOT SHOWN)
	99020-006	12	MASTER LINK, #25 CHAIN (NOT SHOWN)

PITNEY BOWES

Sure-Feed Engineering



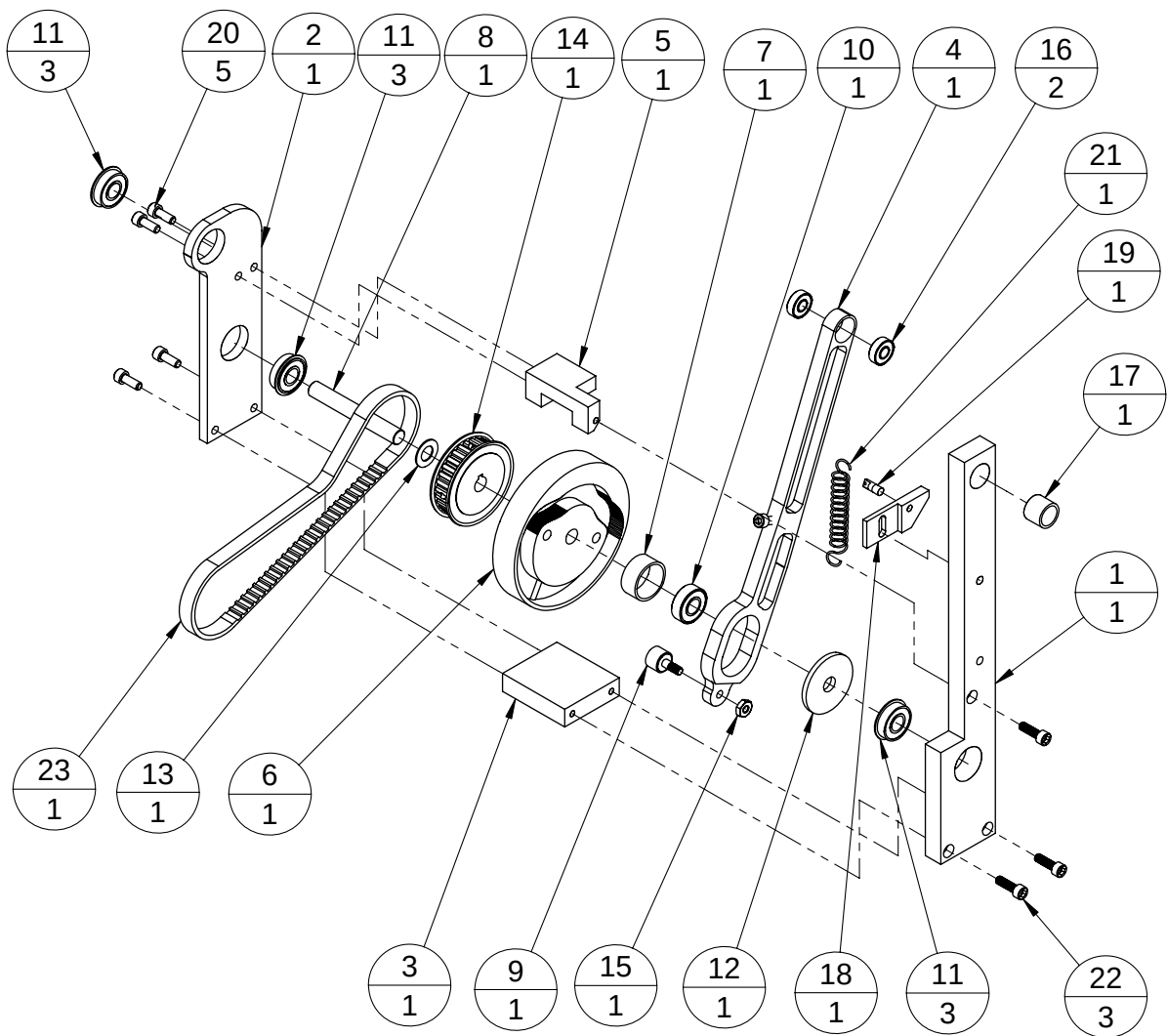
ASSY# 18020-050

**COLLATOR – PUSHER (Fig. 2-9)
 FINGER DRIVE SHAFT ASSEMBLY
 (18020-204)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18008-114	1	BAR, FINGER SUPPORT, LH
2	18007-134	1	BLOCK, BEARING MTG, FINGER DRIVE
3	18008-005	1	BAR, LOWER SPACER
4	18008-096	1	BAR, CONNECTING LINK, ENTERING FINGERS
5	18008-097	1	BAR, UPPER SPACER
6	18016-013	1	BOX CAM, ENTERING FINGER
7	18006-027	1	ROLLER YOKE GUIDE
8	18004-009	1	SHAFT, FINGER DRIVE
9	99003-055	1	CAM FOLLOWER, 3/4 DIAM.
10	99003-008	1	BEARING, 3/8 X 7/8, SEALED
11	99003-020	3	BEARING, 3/8 X 7/8, SEALED W/ S.R
12	18006-010	1	WASHER, THRUST
13	99003-016	1	WASHER, NYLON, 1/2 X 1/32
14	99002-020	1	PULLEY, 30XL037, 3/8 B W/ KEYWAY
15		1	HEX NUT, #10-24
16	99003-002	2	BEARING, 1/4 X 5/8 SEALED
17	99003-031	1	BUSHING, 1/2 X 5/8 X 1/2
18	18009-013	1	BRACKET, SPRING MTG.
19	99006-016	1	PIN, SPRING, #10-32 X 3/8
20		5	SCREW, SKT HEAD, #10-24 X 1/2
21	99005-009	1	SPRING, EXTENSION
22		3	SCREW, SKT HEAD, #10-24 X 5/8
23	99000-018	1	BELT, TIMING, 176XL037

PITNEY BOWES

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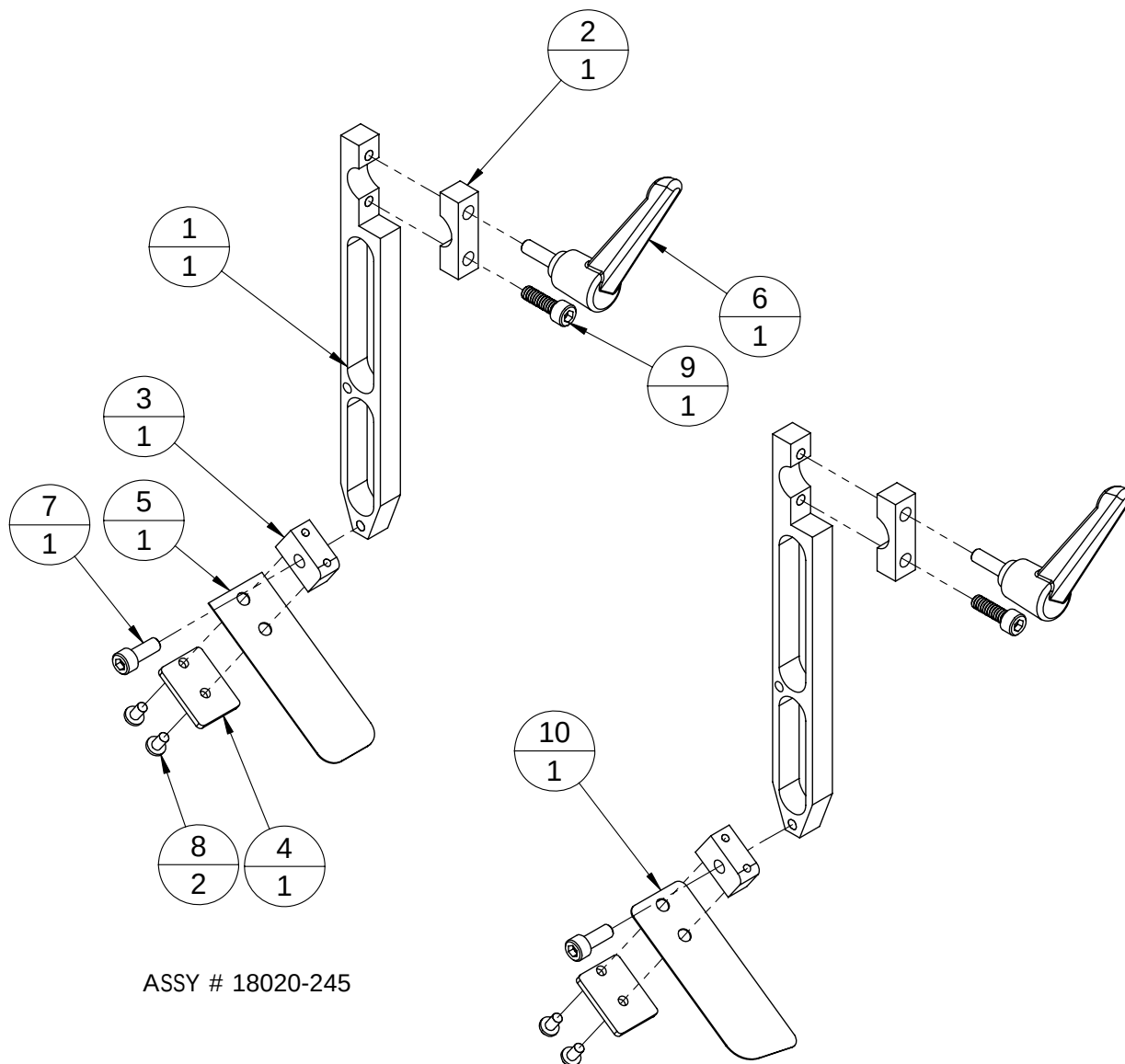


**COLLATOR – PUSHER (Fig. 2-10)
ENTERING FINGER ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18008-111	1	BAR, FINGER ARM
2	18008-112	1	BLOCK, CLAMP, FINGER ARM
3	18007-018	1	BLOCK, ENTERING FINGER MTG.
4	18011-046	1	PLATE, FINGER SUPPORT
5	18005-008	1	GUIDE, ENTERING FINGER INNER (IN # 18020-245)
6	99004-003	1	HANDLE, RATCH
7		1	SCREW, SKT HEAD, #10-24 X 5/8
8		2	SCREW, PAN HEAD, #6-32 X 3/8
9		1	SCREW, SKT HEAD, #10-24 X 5/8
10	18005-090	1	GUIDE, ENTERING FINGER, OUTER (IN # 18020-246)

PITNEY BOWES

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ASSY # 18020-245

ASSY# 18020-246

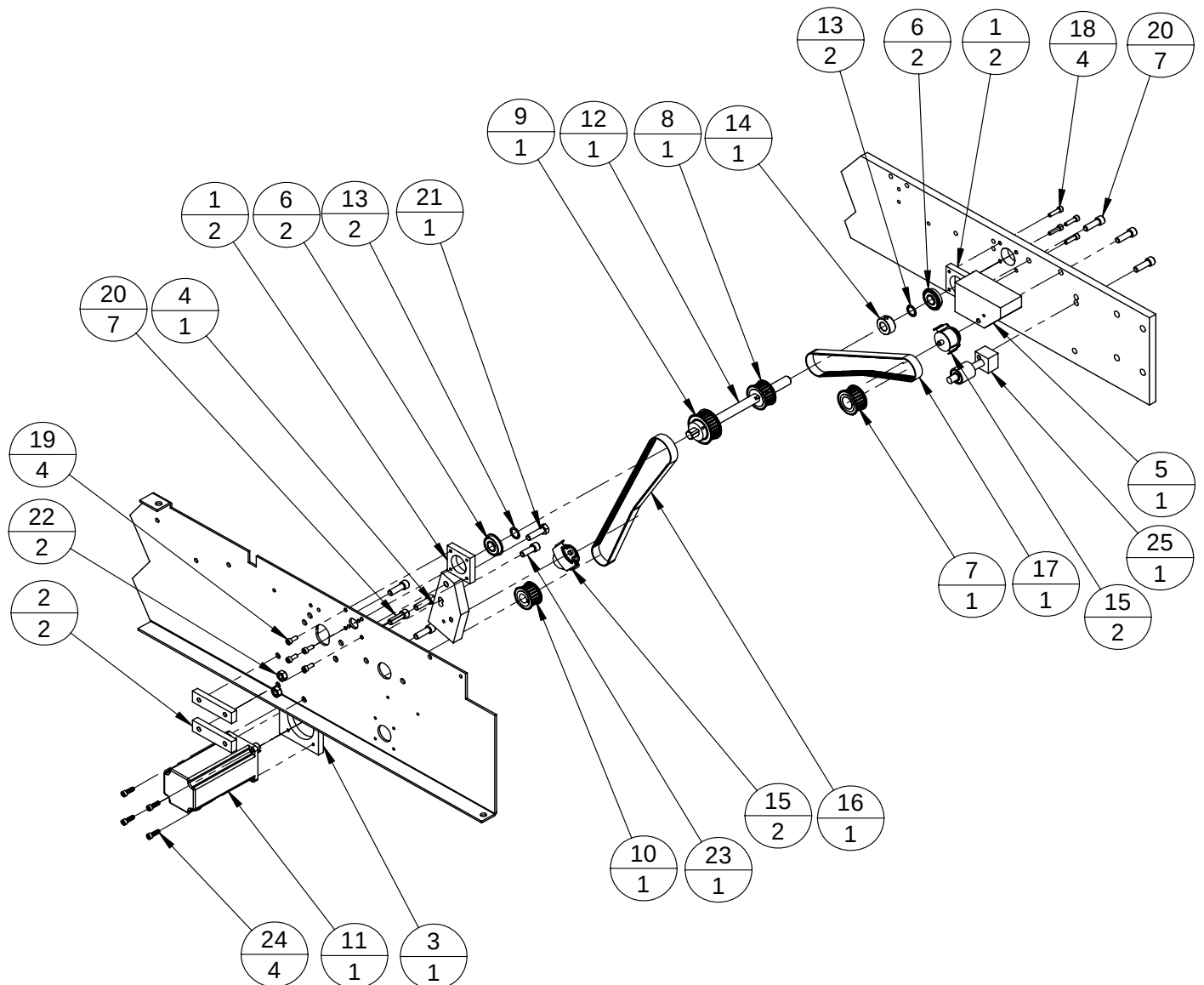
COLLATOR – PUSHER DRIVE ASSEMBLY (Fig. 2-11)
(18020-373)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18007-120	2	BLOCK, BEARING
2	18011-103	2	PLATE, NUT
3	18011-135	1	PLATE, MOTOR MTG, PUSHER SERVO
4	18007-152	1	BLOCK, TENSIONER MTG @ MOTOR
5	18007-153	1	BLOCK, TENSIONER MTG @ PUSHER
6	99003-007	2	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
7	18006-079	1	PULLEY, TIMING, 22-5GT-15, 3/4"B
8	18006-080	1	PULLEY, TIMING, 22-5GT-15, 1/2"B, W/ 1/8 KEYWAY
9	18006-081	1	PULLEY, TIMING, 27-5GT-15, 1/2"B, W/ 1/8 KEYWAY
10	18006-082	1	PULLEY, TIMING, 20-5GT-15, 14MM B, W/ 5MM KY
11	98013-078	1	MOTOR, SERVO, 400W
12	18004-089	1	SHAFT, PUSHER DRIVE
13	99003-032	2	WASHER, NYLON, 1/2 X 1/32
14	99017-004	1	COLLAR, 1/2 SHAFT
15	99019-007	2	ROLLER ASSY, SPRING LOADED TENSIONER
16 *	99000-318	1	BELT, TIMING, 650-5GT-15
17 *	99000-317	1	BELT, TIMING, 500-5GT-15
18		4	SCREW, SKT HEAD, #10-24 X 3/4
19		4	SCREW, SLT HEAD, #10-24 X 1/2
20		6	SCREW, SKT HEAD, #10-24 X 3/8
21		1	BOLT, HEX HEAD, 3/8-16 X 1-1/8
22		2	NUT, HEX, 5/8-11
23		1	SCREW, SKT HEAD, 3/8-16 X 7/8
24		4	SCREW, SKT HEAD, #10-24 X 5/8
25	18020-102	1	ASSEMBLY, ECCENTRIC IDLER (W/ FLAT PULLEY)
	18004-050	1	SHAFT, ECCENTRIC IDLER, 3/8 X 3-1/4
	10006-012	1	PULLEY, FLAT IDLER, 15/16 OD X 1" W
	99003-008	2	BEARING, 3/8 X 7/8 SELAED
	99022-003	2	SNAP RING, 3/8

For FlowMaster inserter manufactured between 2003 and 2005
16* 99000-146, Belt Timing 260XL037 and 17* 99000-145, Belt Timing 192XL037

PITNEY BOWES

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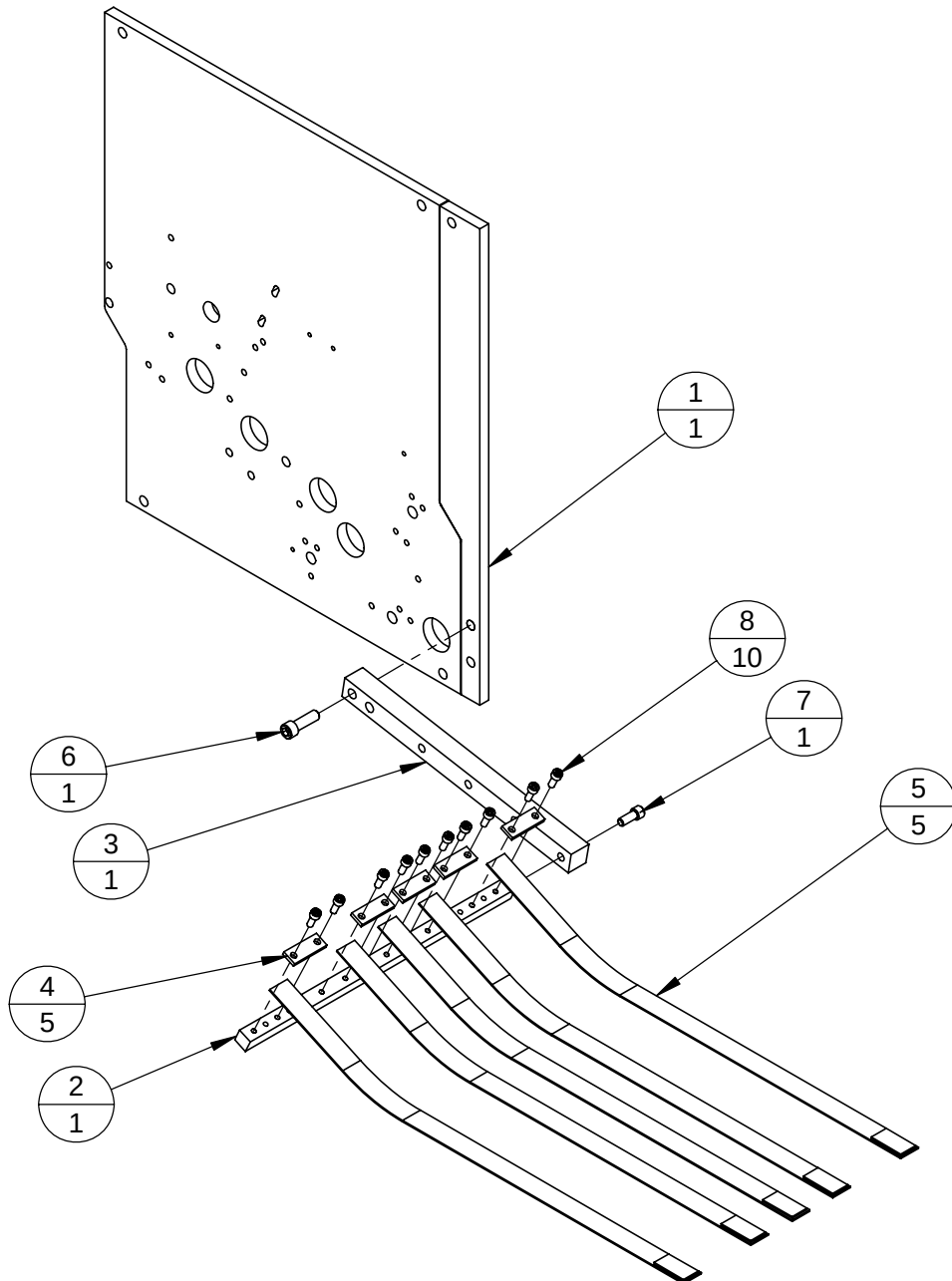


COLLATOR – FEEDERS / PUSHER (Fig. 2-12)
PUSHER DRAG STRAP ASSEMBLY (18020-210)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18011-100	1	PLATE, FILLER
2	18008-030	1	BAR, DRAG STRAP MTG.
3	18007-060	1	BLOCK, DRAG STRAP MTG.
4	18009-016	5	PLATE, SPRING STEEL CLAMP
5	18014-011	5	DRAG STRAP, PUSHER
6	-	1	BOLT, SKT HEAD, 3/16-18 X 1
7	-	1	BOLR, SKT HEAD, 1/4-20 X 5/8
8	-	10	SCREW, SKT HEAD, #10-24 X 1/2

PITNEY BOWES

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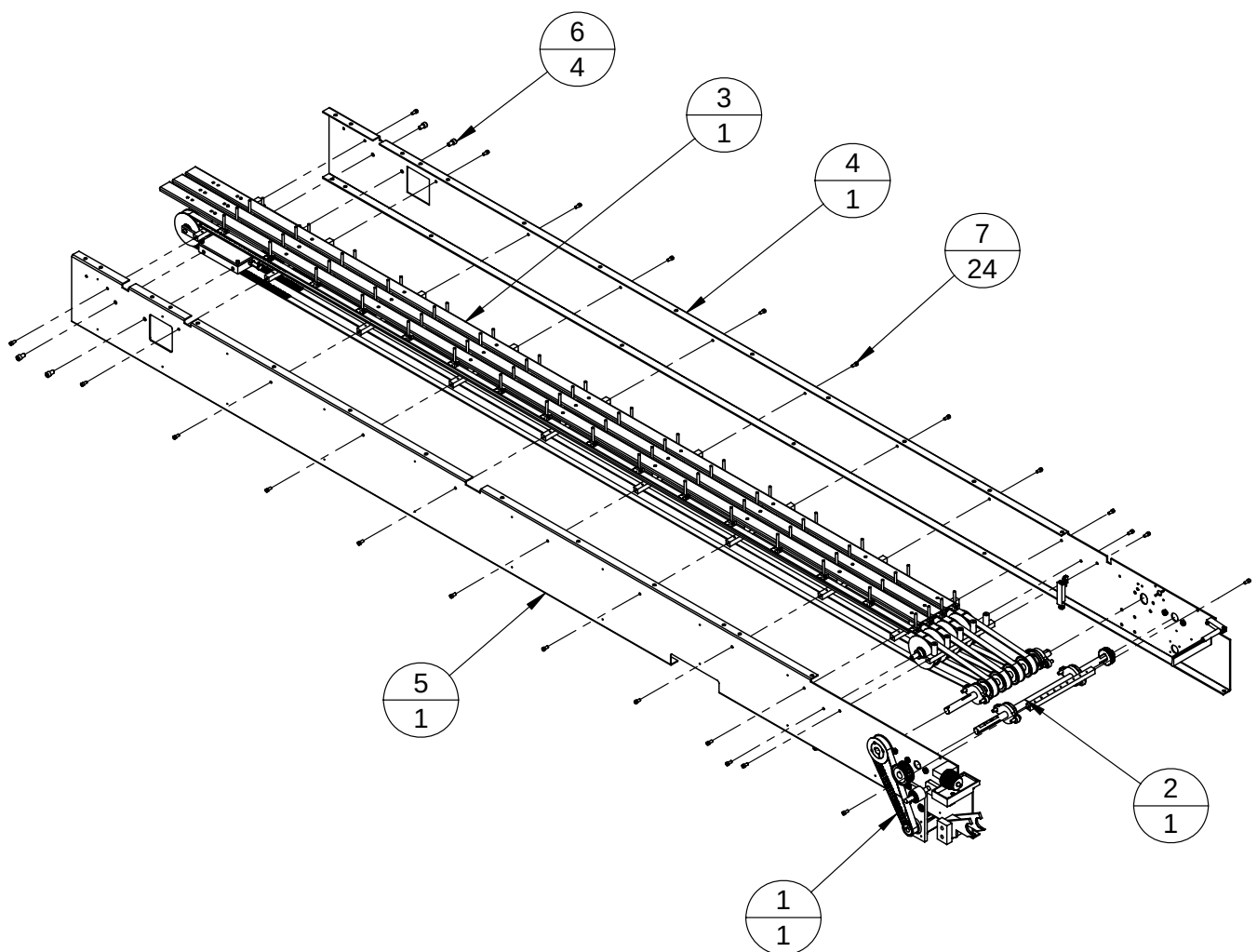


**COLLATOR – CONVEYOR ASSEMBLY (Fig. 2-13)
 (18020-374)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 2-14	1	ASSEMBLY, SERVO MOTOR
2	SEE FIG. 2-15	1	ASSEMBLY, DRIVE SHAFTS
3	SEE FIG. 2-16	1	ASSEMBLY, CONVEYOR BELT TRACK
4	18000-006	1	SIDEFRAME, LH, CONVEYOR
5	18000-005	1	SIDEFRAME, RH, CONVEYOR
6		4	BOLT, SKT HEAD, 3/8-16 X 5/8
7		24	BOLT, SKT HEAD, 1/4-20 X 1/2

PITNEY BOWES

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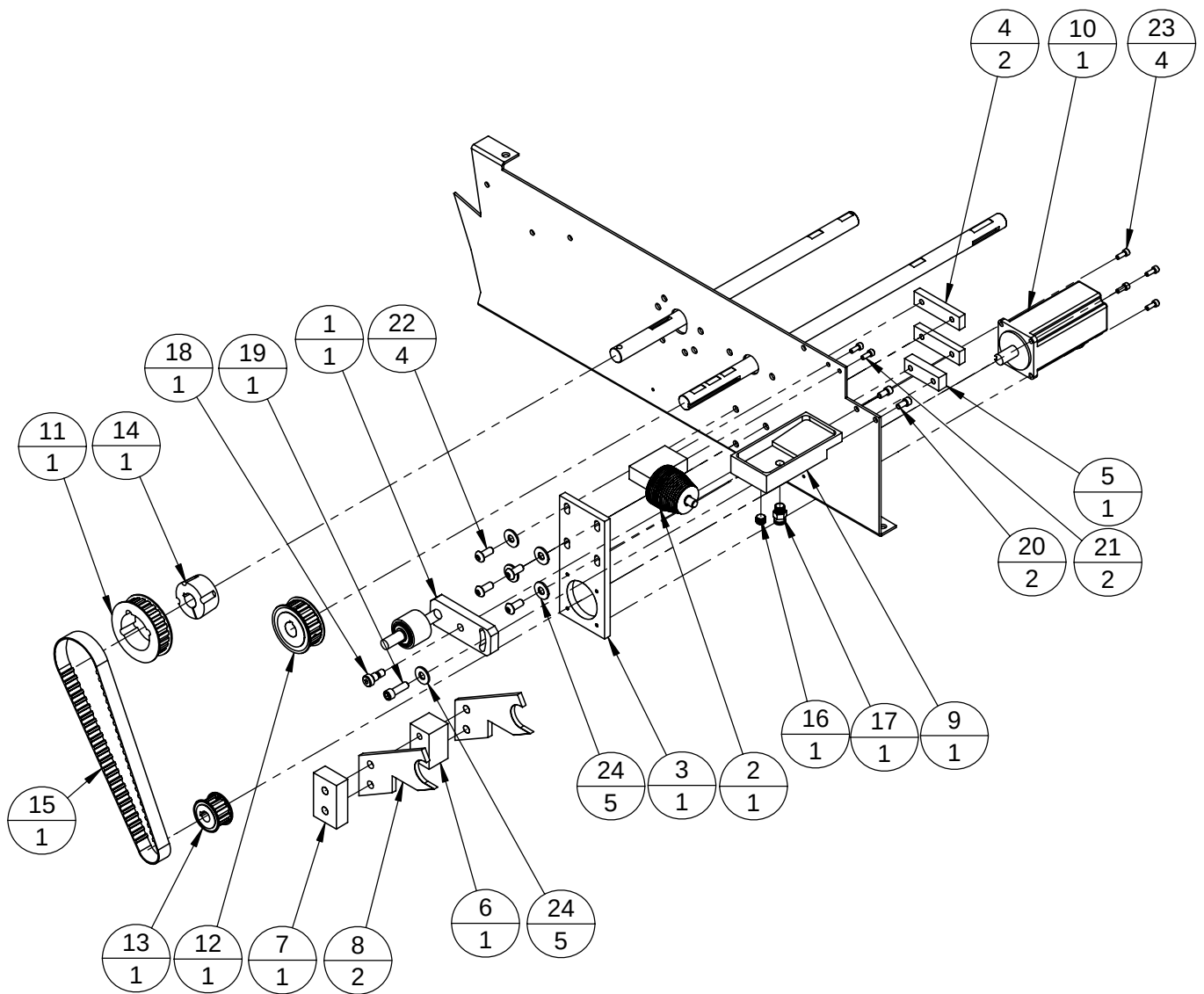


COLLATOR – CONVEYOR (Fig. 2-14)
SERVO MOTOR ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 2-17	1	ASSEMBLY, TENSIONER (18020-098)
2	SEE FIG. 2-17	1	ASSEMBLY, ROLLER BRUSH (18020-100)
3	18011-112	1	PLATE, SERVO MOTOR MTG, 16K
4	18011-103	2	NUT PLATE, SERVO MTG, 16K
5	18011-025	1	NUT PLATE, TENSIONER
6	18007-050	1	BLOCK, PULLEY GUIDE YOKE MTG.
7	18012-012	1	SPACER, PULLEY GUIDE YOKE
8	18007-070	2	BLOCK, PULLEY GUIDE YOKE
9	18019-004	1	DRIP PAN
10	98013-078	1	MOTOR, SERVO, 400W
11	99002-043	1	PULLEY, TIMING, TL24L075 (1210)
12	18006-025	1	PULLEY, TIMING, 19L075, 3/4B W/ KEYWAY
13	18006-058	1	PULLEY, TIMING, 12L075, 14MM BORE
14	99017-016	1	BUSHING, TAPERLOCK, 1210, 2/4 BORE
15	99000-147	1	BELT, TIMING, 255L075 (STEEL REINFORCED)
16	99028-008	1	PLUG, FLUSH, 1/8 NPT
17	99028-090	1	FITTING, MALE CONNECTOR, 1/8 NPT X 3/8 HOSE
18	99033-011	1	SHOULDER BOLT, 3/8 X 3/4
19		1	BOLT, SKT HEAD, 5/16-18 X 1
20		2	BOLT, SKT HEAD, 1/4-20 X 1/2
21		2	SCREW, SKT HEAD, #10-24 X 1/2
22		4	BOLT, BUTTON HEAD, 5/16-18 X 3/4
23		4	SCREW, SKT HEAD, #10-24 X 1/2
24		5	WASHER, FLAT, 5/16

PITNEY BOWES

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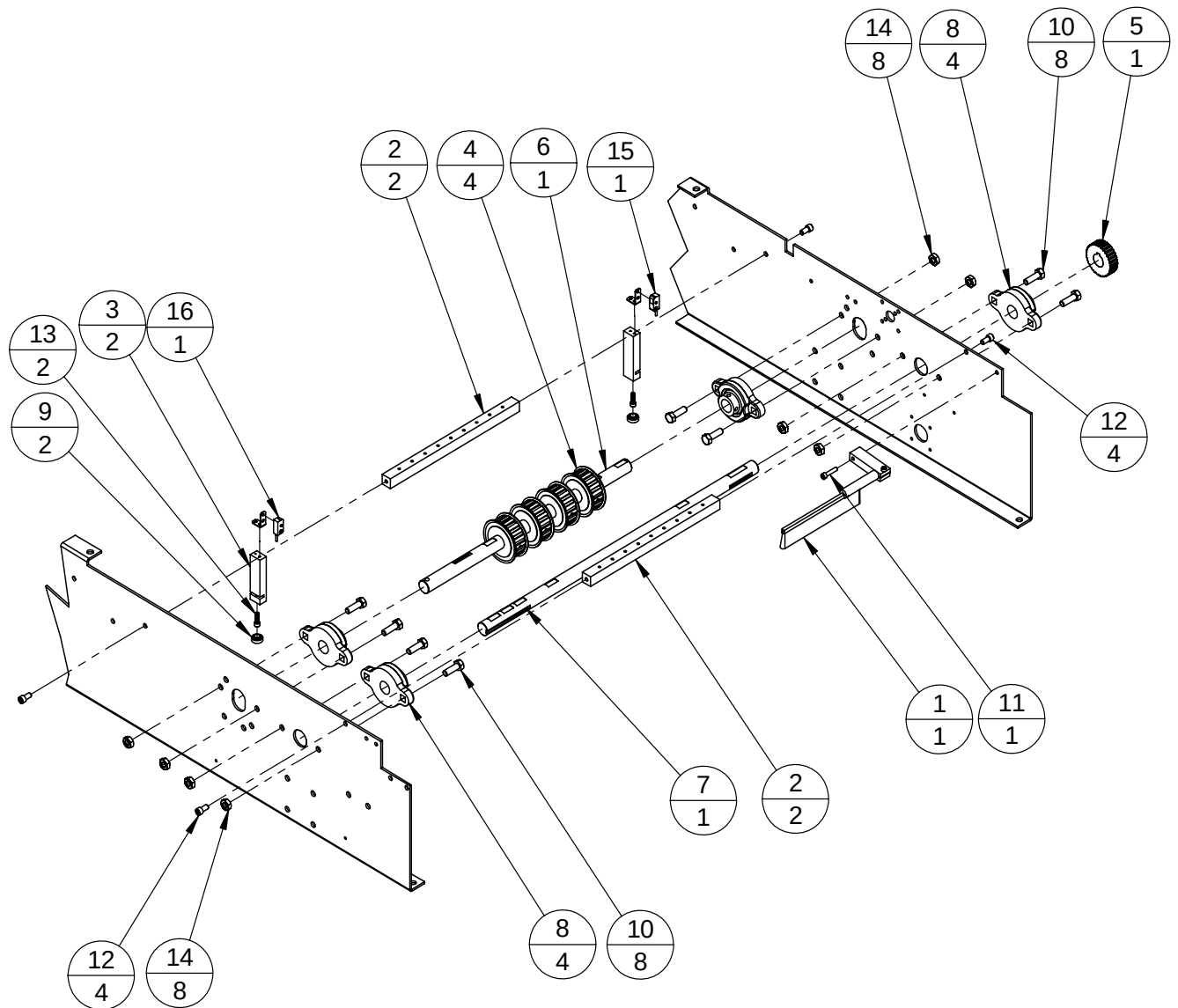


**COLLATOR – CONVEYOR (Fig. 2-15)
 DRIVE SHAFT ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 2-17	1	ASSEMBLY, BRUSH STRIP (18020-081)
2	18003-009	2	CROSS BAR, 10"
3	18009-072	2	BRACKET, HOMING SENSOR MTG.
4	18006-039	4	PULLEY, COLLATOR DRIVE, 19L075 (3/4 BORE)
5	99002-049	1	PULLEY, TIMING, 30XL037, 3/4 BORE
6	18004-048	1	SHAFT, COLLATOR DRIVE
7	18004-042	1	SHAFT, COLLATOR DRIVE (1 TO 1)
8	99003-019	4	BEARING, 2 BOLT FLG
9	99004-002	2	KNOB, #10 SCREW
10		8	BOLT, HEX HEAD, 5/16-18 X 7/8
11		1	SCREW, SKT HEAD, #10-24 X 7/8
12		4	BOLT, SKT HEAD, 1/4-20 X 1/2
13		2	SCREW, SKT HEAD, #10-24 X 5/8
14		8	NUT, HEX, 5/16-18
15	98009-029	1	SENSOR, MINI PHOTO THRU BEAM (BLACK CABLE)
16	98009-040	1	SENSOR, MINI PHOTO THRU BEAM (GREY CABLE)

PITNEY BOWES

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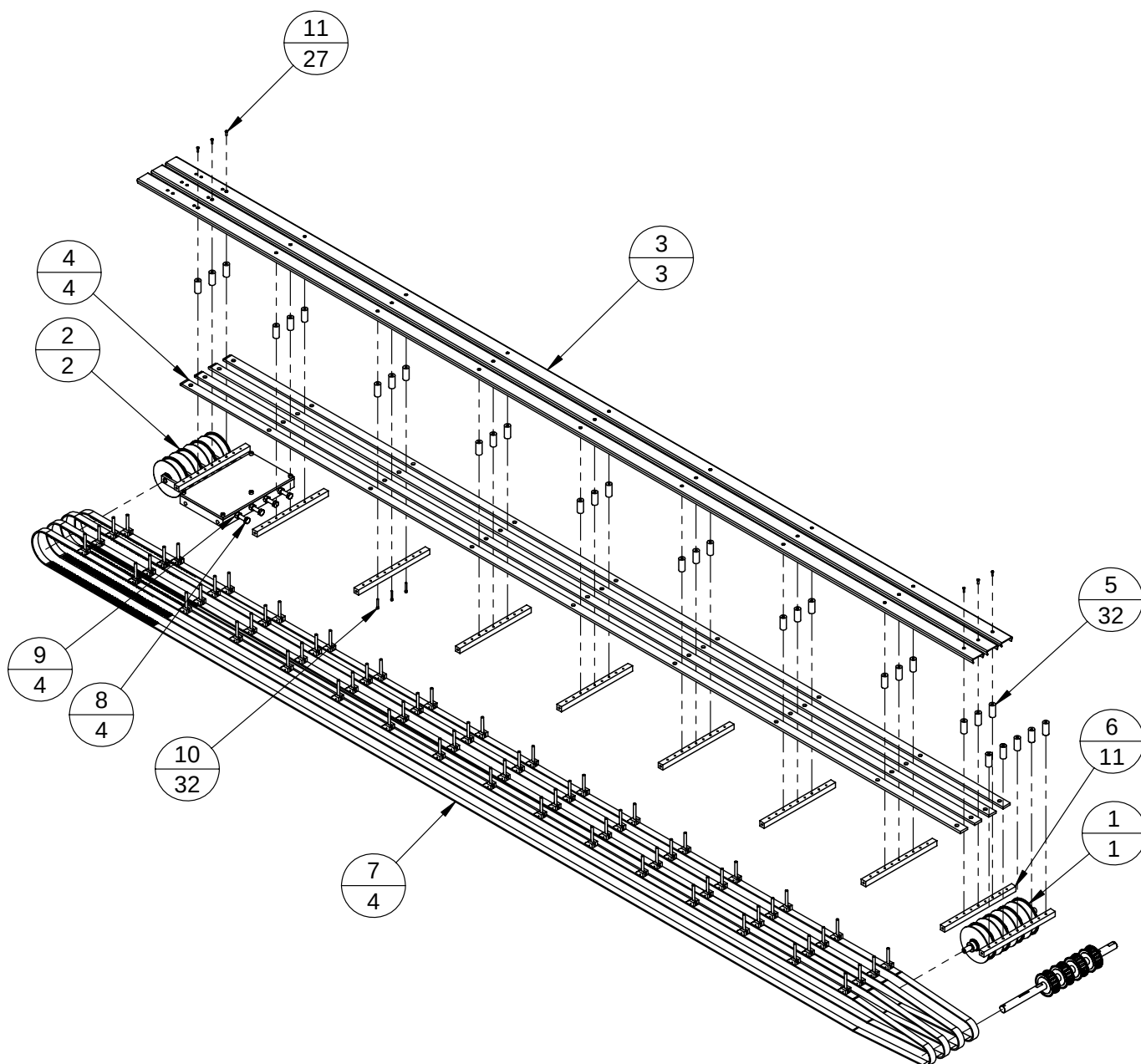


COLLATOR – CONVEYOR (Fig. 2-16)
CONVEYOR BELT TRACK ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 2-18	1	ASSEMBLY, FRONT IDLER PULLEY (18020-097)
2	SEE FIG. 2-18	1	ASSY, REAR IDLER PULLEY (18020-078)
3	18005-140	3	GUIDE, PAPER SLIDE, STEEL
4	18008-067	4	BAR, BELT SUPPORT
5	18012-001	32	STANDOFF, PAPER GUIDE
6	18003-009	10	CROSS BAR, 10"
7	18014-027	4	BELT, COLLATOR (10X13 XLE)
8		4	BOLT, HEX, 3/8-16 X 3
9		4	NUT, HEX, 3/8-16
10		32	SCREW, SKT HEAD, #6-32 X 1
11		27	SCREW, FLAT HEAD, #6-32 X 1/2

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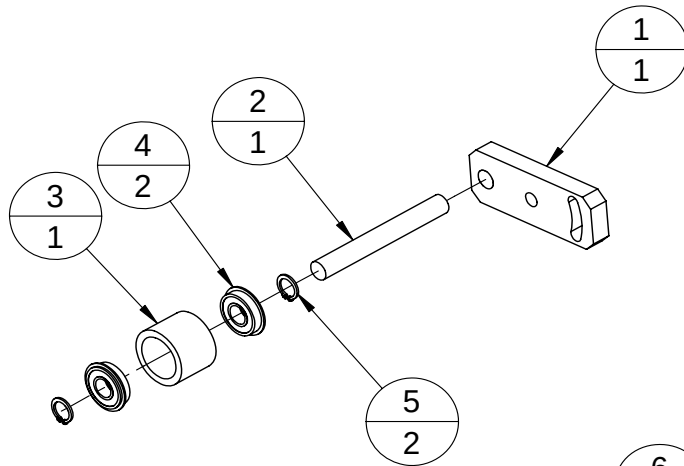


COLLATOR – CONVEYOR (Fig. 2-17)
TENSIONER, ROLLER BRUSH & BRUSH STRIP ASSEMBLIES

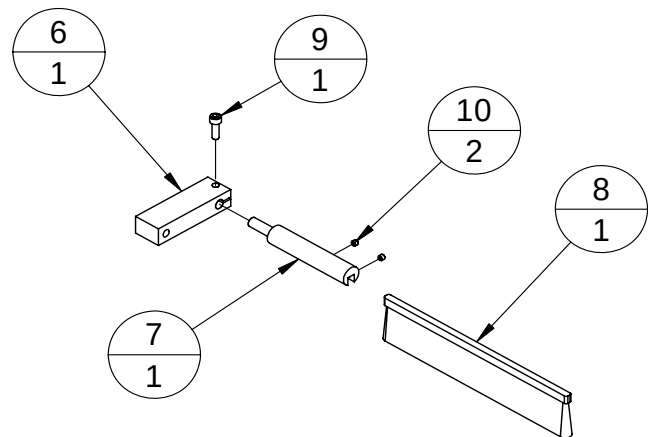
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-098	1	ASSEMBLY, TENSIONER
1	18007-072	1	BLOCK, TENSIONER
2	18004-051	1	SHAFT, STUB IDLER, 4-1/2"
3	18006-012	1	ROLLER, FLAT IDLER, 1-1/2 OD X 1-1/8 ID
4	99003-007	2	BEARING, 1/2 X 1-1/8, SEALED W/ S.R
5	99022-004	2	SNAP RING, 1/2
	18020-081	1	ASSEMBLY, BRUSH STRIP
6	18007-080	1	BLOCK, LOWER BRUSH MTG.
7	18009-023	1	BRACKET, BRUSH CLAMP
8	99023-001	1	BRUSH STRIP, 6" X 1" X .003
9		1	SCREW, SKT HEAD, #8-32 X 1/2
10		2	SET SCREW, #6-32 X 1/4
	18020-100	1	ASSEMBLY, ROLLER BRUSH
11	18007-071	1	BLOCK, ROLLER BRUSH MTG.
12	18006-019	1	ROLLER, BRUSH
13	18004-032	1	SHAFT, ROLLER BRUSH MTG.
14	99003-017	4	WASHER, NYLON, 3/8 X 1/16
15	99022-007	1	SNAP RING, 3/8 SST

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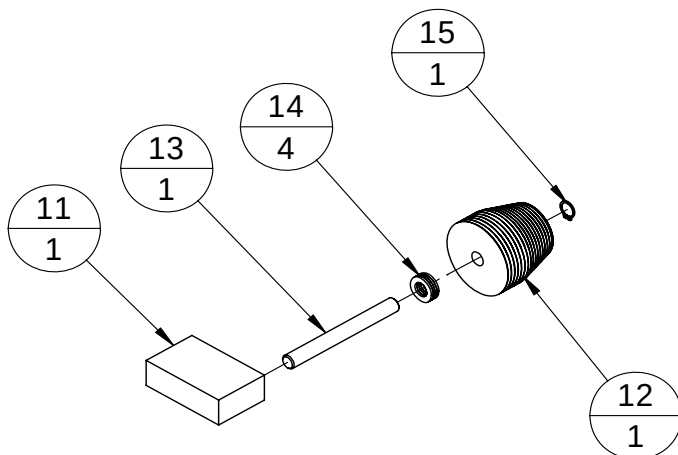
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ASSY# 18020-098



ASSY# 18020-081



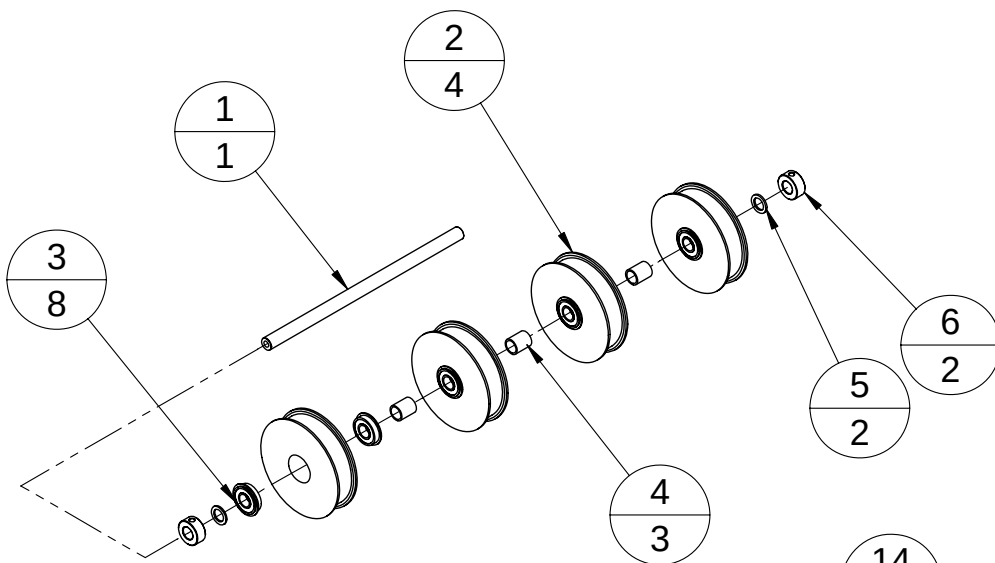
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**COLLATOR – CONVEYOR (Fig. 2-18)
 IDLER SHAFT ASSEMBLIES (FRONT, REAR)**

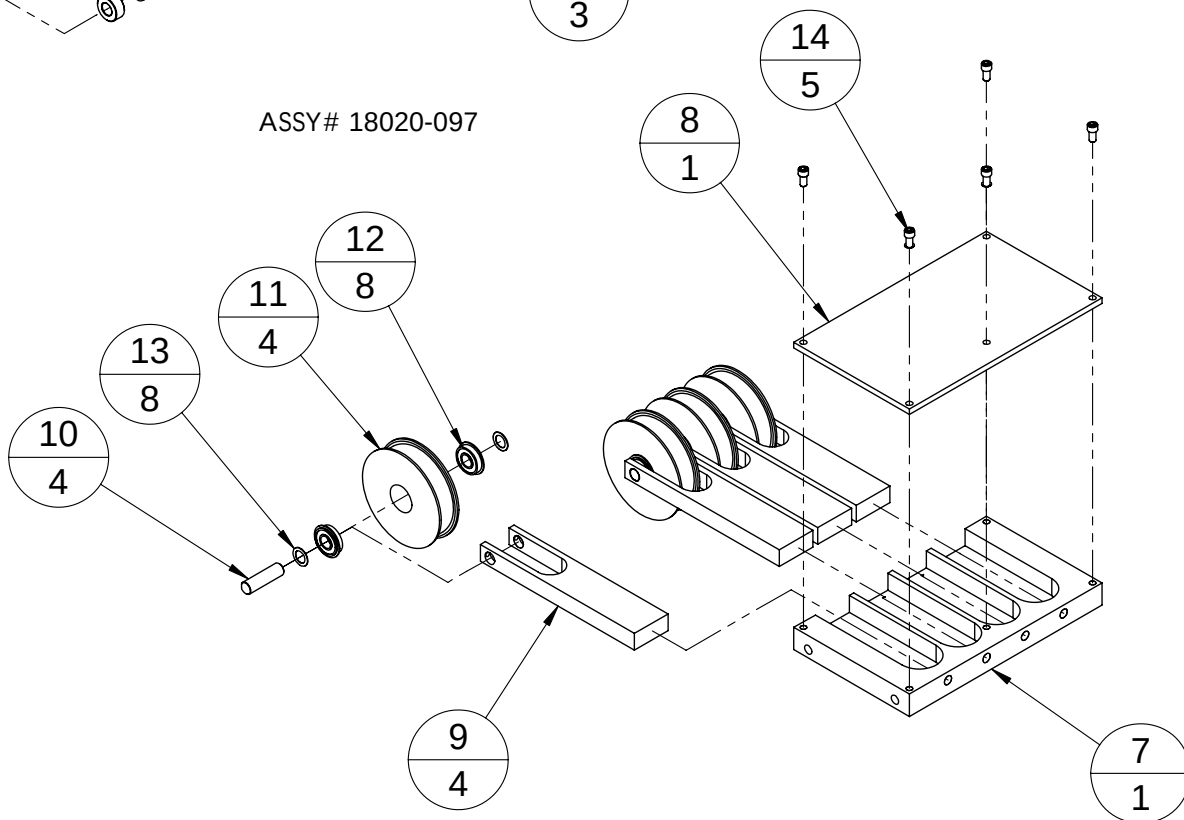
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-097	1	ASSEMBLY, FRONT IDLER
1	18004-013	1	SHAFT, IDLER
2	18006-005	4	PULLEY, IDLER
3	99003-007	8	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
4	99003-038	3	BUSHING, SLEEVE, 1/2 X 5/8 X 3/4
5	99003-018	2	WASHER, NYLON, 1/2 X 1/16
6	99017-004	2	COLLAR, 1/2 SHAFT
	18020-078	1	ASSEMBLY, REAR IDLER
7	18007-014	1	BLOCK, IDLER ADJ
8	18011-006	1	PLATE, IDLER BLOCK
9	18008-008	1	BAR, IDLER MTG.
10	18004-002	1	SHAFT, IDLER
11	18006-005	1	PULLEY, IDLER
12	99003-007	2	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
13	99036-004	2	SHIM, 1/2 X 3/4 X .020
14	-	5	BOLT, SKT HEAD, 1/4-20 X 1/2

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ASSY# 18020-097



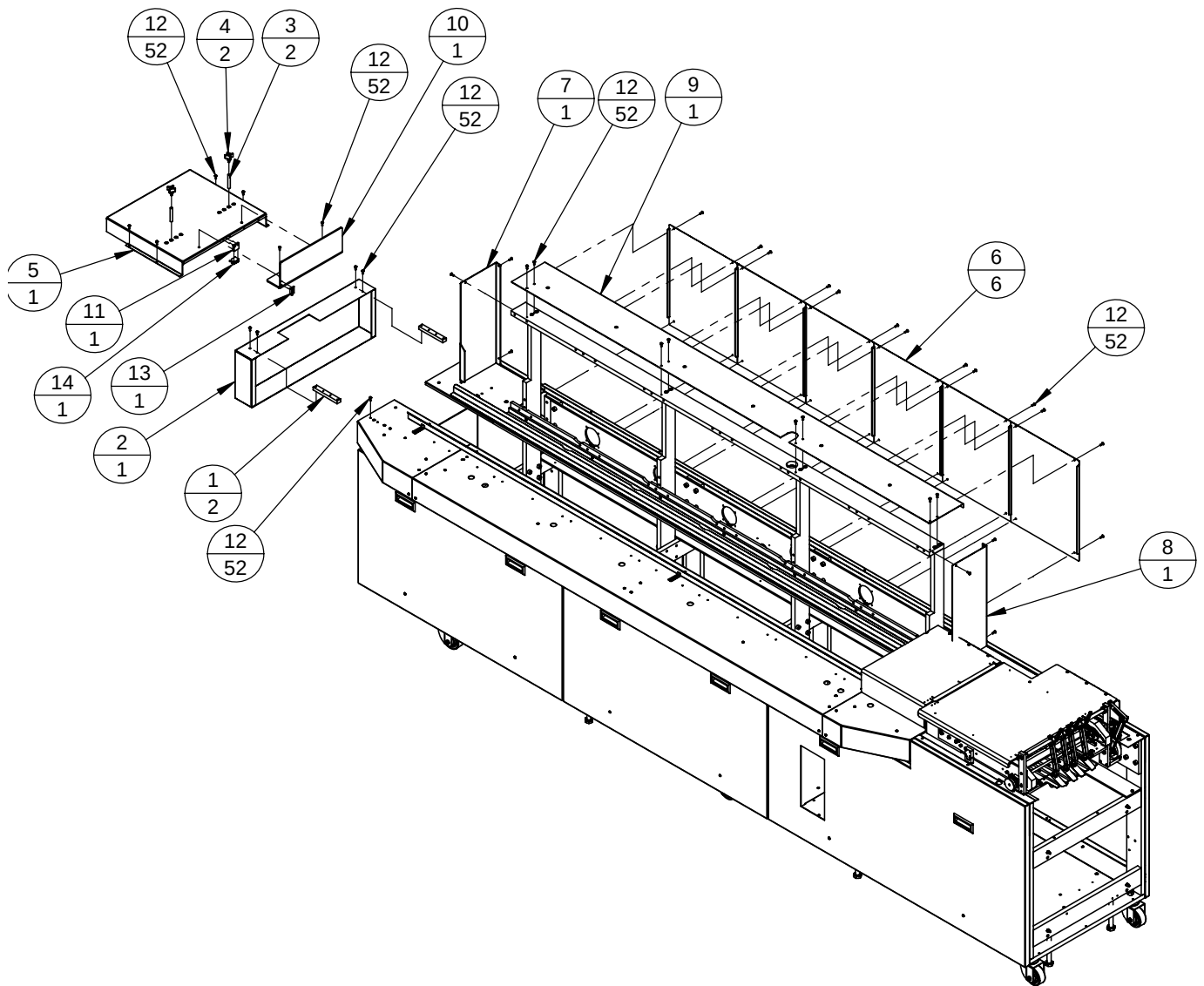
ASSY#18020-078

COLLATOR – COVERS (Fig. 2-19)
(18020-372)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18007-043	2	BLOCK, END COVER MTG.
2	18013-003	1	COVER, REAR COLLATOR
3	18012-021	2	STANDOFF, SIDE GUIDE ADJ.
4	99004-019	2	KNOB, #10-24 MALE
5	18013-026	1	COVER, REAR TRACK
6	18013-159	6	COVER, REAR, FEEDER DRIVE
7	18013-160	1	COVER, SIDE, UPSTREAM, FEEDER DRIVE
8	18013-161	1	COVER, SIDE, DOWNSTREAM, FEEDER DRIVE
9	18013-163	1	COVER, TOP, FEEDER DRIVE (6-ST)
10	18013-180	1	COVER, REAR FEEDER (10X13)
11	18009-077	1	BRACKET, TRACK JAM SENSOR
12	-	52	SCREW, BUTTON HEAD, #10-24 X 1/2
13	98000-036	1	SWITCH, REED
14	98009-002	1	SENSOR, SENDER, THRU BEAM

PITNEY BOWES

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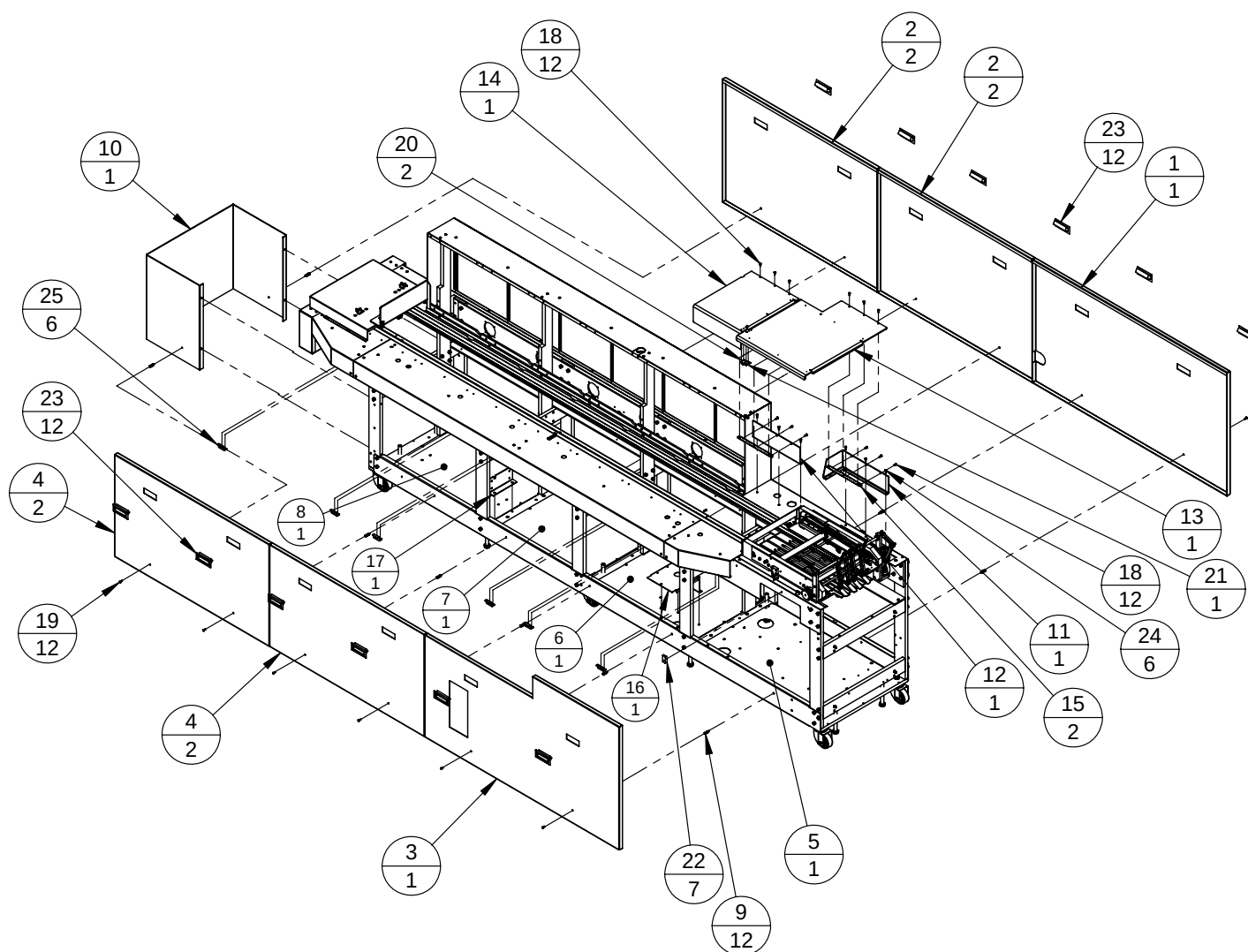


COLLATOR – COVERS (Fig. 2-20)
(18020-372)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18013-187	1	COVER, LOWER SIDE, RH FRONT
2	18013-044	2	COVER, LOWER SIDE
3	18013-230	1	COVER, LOWER SIDE, POWER ENTRY
4	18013-231	2	COVER, LOWER SIDE REAR, JOG DECK
5	18013-071	1	COVER, FLOOR - PNEUMATIC
6	18013-166	1	COVER, FLOOR, P.E. MTG.
7	18013-070	1	COVER, FLOOR, FEEDER MOTOR
8	18013-167	1	COVER, FLOOR, ELECTRICAL ENCL MTG.
9	99039-079	12	STANDOFF, HEX, #10-32
10	18013-066	1	COVER, REAR COLLATOR (10X13)
11	18002-006	1	MOUNT, PUSHER COVER
12	18002-008	1	MOUNT, REAR PUSHER COVER
13	18013-051	1	COVER, PUSHER
14	18013-101	1	COVER, REAR PUSHER
15	18013-104	2	HINGE, CONTINUOUS, 9" LONG
16	18009-044	1	BRACKET, POWER ENTRY MODULE MTG.
17	18008-045	1	BRACKET, INVERTER ENCL MTG.
18	-	12	SCREW, BUTTON HEAD, #10-24 X 1/2
19	-	12	SCREW, BUTTON HEAD, #10-32 X 1/2
20	98000-036	1	REED SWITCH
21	98020-024	1	MAGNET, REED SWITCH
22	18007-042	12	BLOCK, SIDE COVER MTG.
23	99012-002	12	HANDLE, POCKET PULL
24	-	6	SCREW, SKT HEAD, #10-24 X 1/2
25	18009-112	6	BRACKET, COVER SUPPORT

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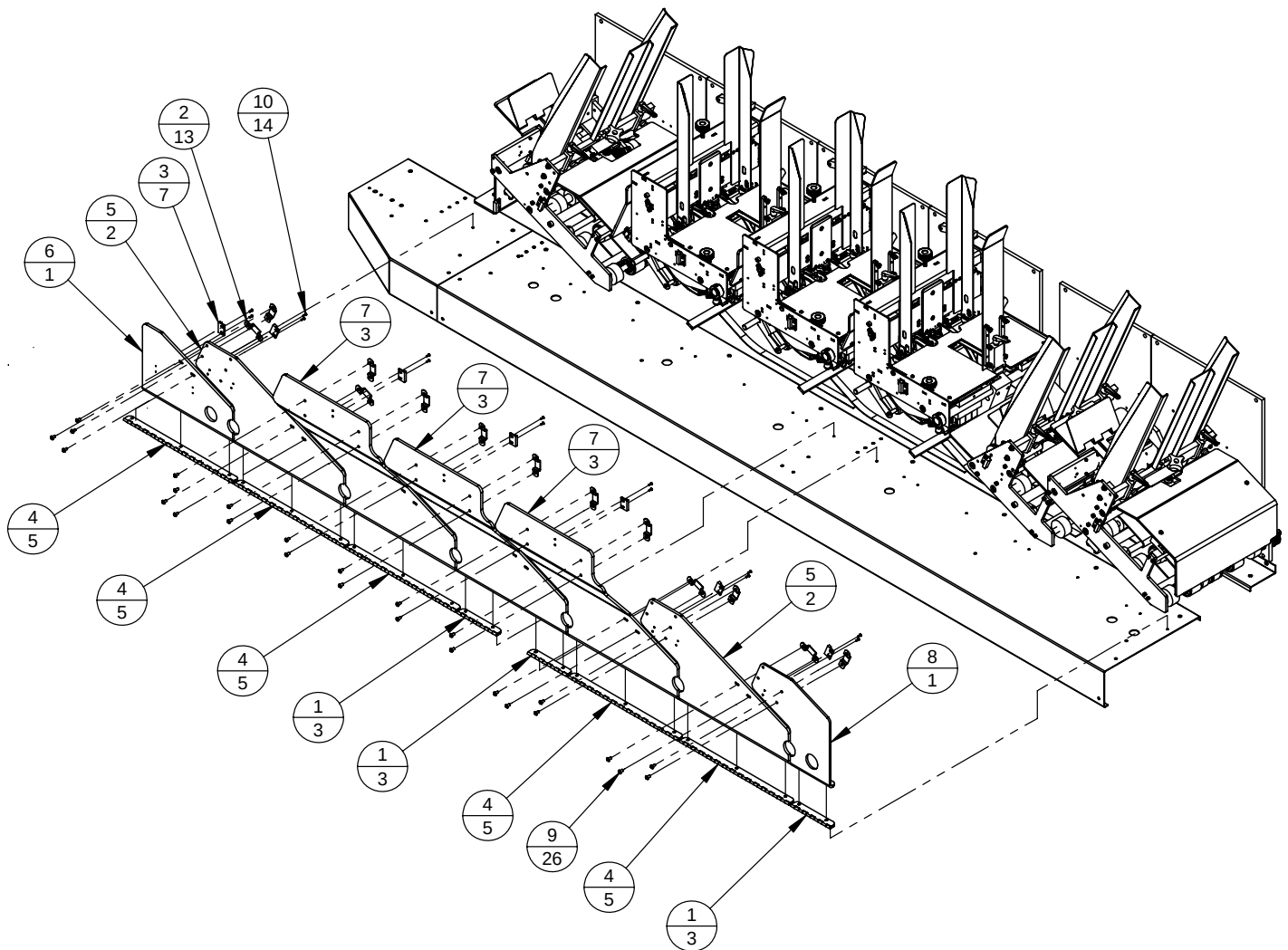


COLLATOR – FRONT LEXAN FEEDER COVERS (Fig. 2-21)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18013-121	3	HINGE, SHORT, 5"
2	18009-052	13	BRACKET, MAGNETIC LATCH
3	98020-024	7	MAGNET, REED SWITCH
4	18013-120	5	HINGE, STD, 14"
5	18013-150	2	COVER, FRONT, FEEDER ENCLOSURE
6	18013-151	1	COVER, FRONT, UPSTREAM, FEEDER ENCLOSURE
7	18013-225	3	COVER, FRONT, ROTARY FEEDER ENCLOSURE
8	18013-149	1	COVER, FRONT, DOWNSTREAM, FEEDER ENCLOSURE
9	-	26	SCREW, BUTTON HEAD, #10-24 X 3/8
10	-	14	SCREW, BUTTON HEAD, #4-40 X 5/16

PITNEY BOWES

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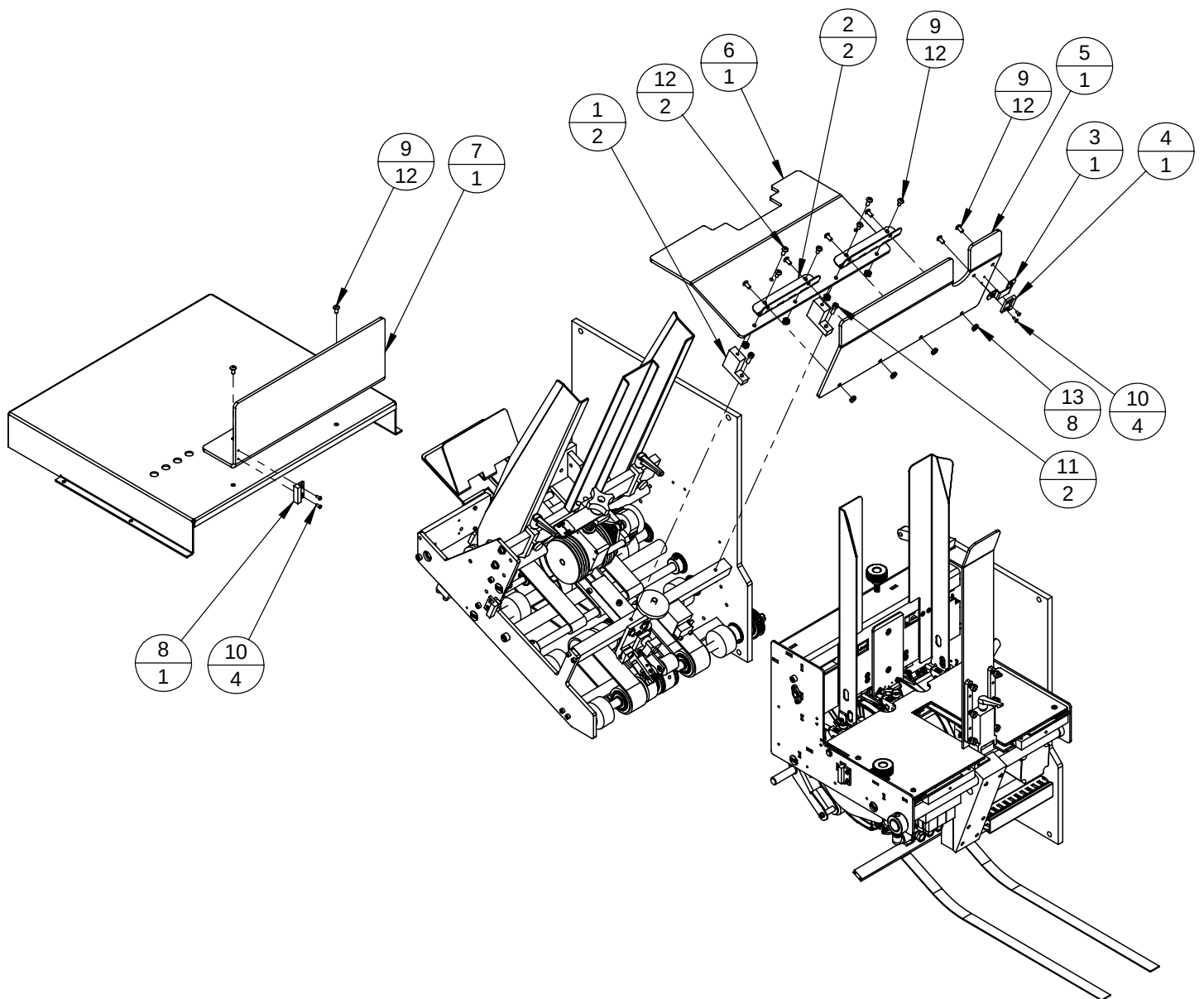


COLLATOR – LEXAN FEEDER COVERS (Fig. 2-22)
10X13 @ POSITION #1 & 10X13 @ ROTARY

ITEM	PART NO.	QTY.	DESCRIPTION
1	18007-122	2	BLOCK, FEEDER COVER MTG (10X13)
2	18013-121	2	HINGE, SHORT, 5"
3	18009-052	1	BRACKET, MAGNETIC LATCH
4	98020-024	1	MAGNET, REED SWITCH
5	18013-226	1	COVER, REAR, ROTARY FEEDER
6	18013-228	1	COVER, TOP, 10X13 FRICTION FEEDER @ ROTARY
	18013-237	1	COVER, TOP, 10X13 THIN MAT'L FEEDER @ ROTARY
7	18013-180	1	COVER, REAR FEEDER (10X13)
8	98000-036	1	REED SWITCH
9	-	12	SCREW, BUTTON HEAD, #10-24 X 3/8
10	-	4	SCREW, BUTTON HEAD, #4-40 X 5/16
11	-	2	SCREW, SKT HEAD, #10-32 X 1/2
12	-	2	SCREW, BUTTON HEAD, #10-24 X 1/2
13	-	8	HEX NUT, #10-24

PITNEY BOWES

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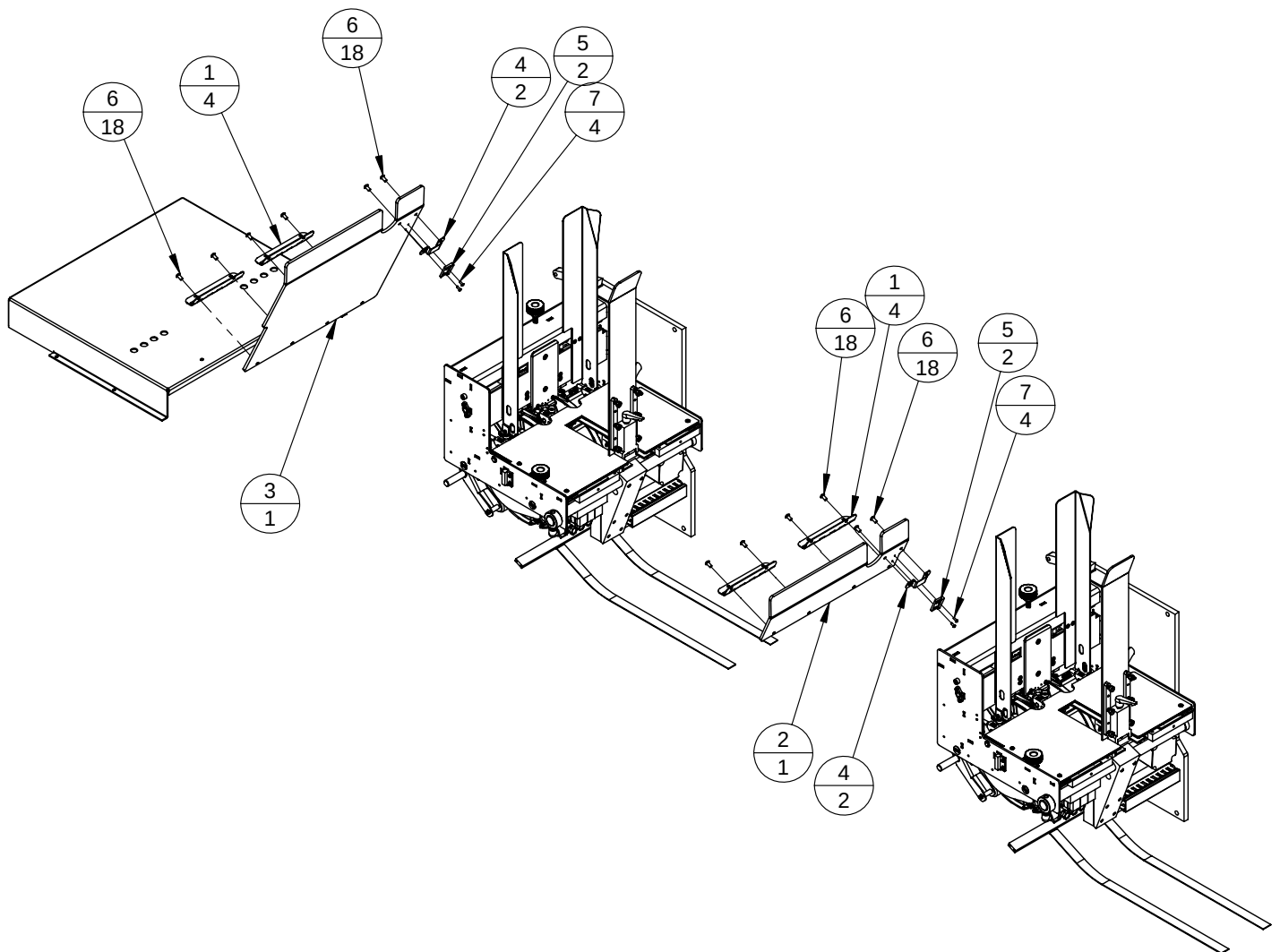


**COLLATOR – LEXAN FEEDER COVERS (Fig. 2-23)
 ROTARY @ POSITION #1 & BETWEEN ROTARYS**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18013-121	4	HINGE, SMALL, 5"
2	18013-233	1	COVER, BETWEEN ROTARYS
3	18013-229	1	COVER, REAR, ROTARY @ POSITION #6
4	18009-052	2	BRACKET, MAGNETIC CATCH
5	98020-024	2	MAGNET, REED SWITCH
6	-	18	SCREW, BUTTON HEAD, #10-24 X 3/8
7	-	4	SCREW, BUTTON HEAD, #4-40 X 5/16
8	-	8	HEX NUT, #10-24 (NOT SHOWN, @ ITEM #6)

PITNEY BOWES

Sure-Feed Engineering

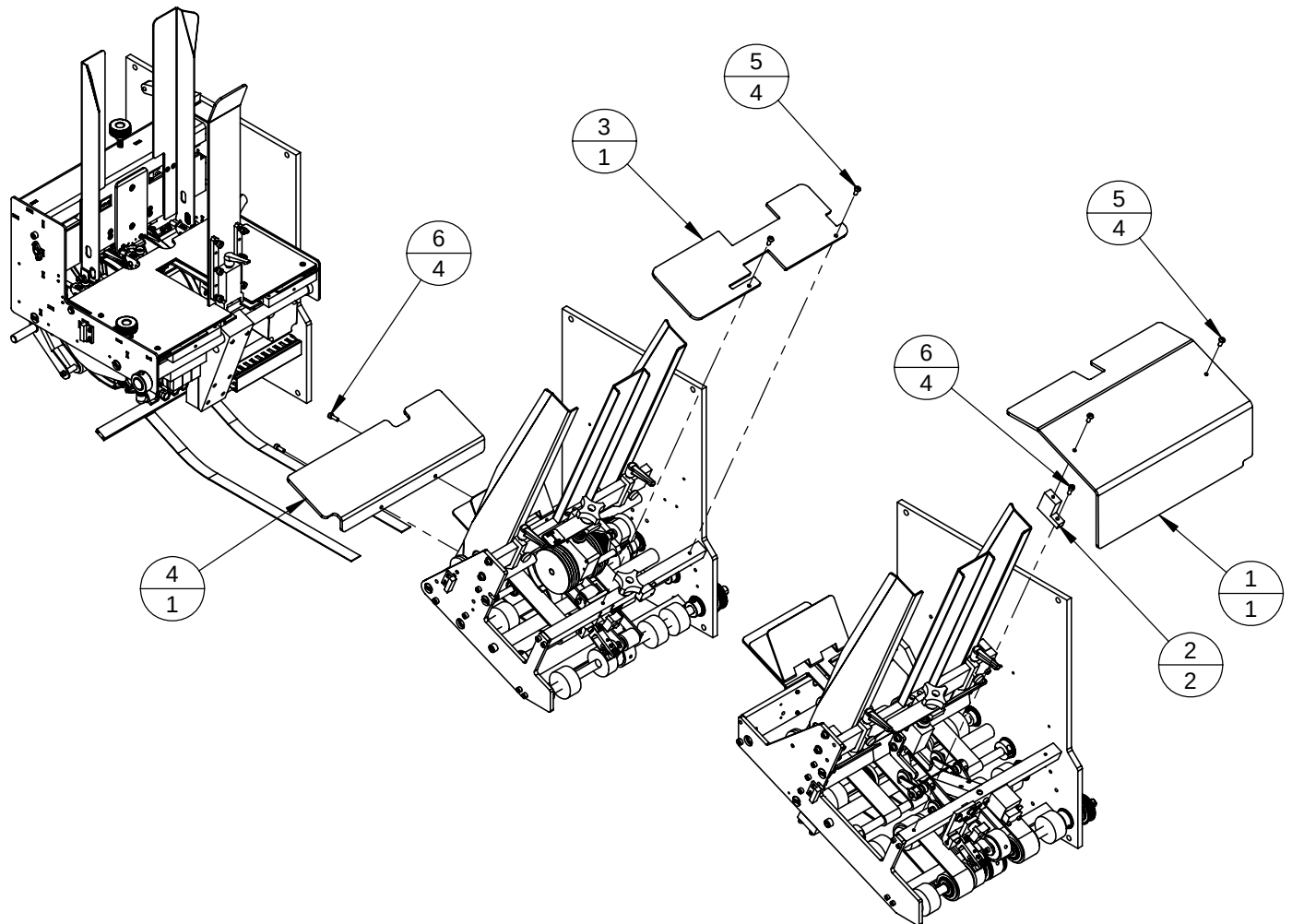


COLLATOR – LEXAN FEEDER COVERS (Fig. 2-24)
6X9 IN FRONT OF ROTARY, 10X13 IN POSITION #6

ITEM	PART NO.	QTY.	DESCRIPTION
1	18013-239	1	COVER, TOP (DOWNSTREAM), 10X13 THIN MAT'L
	18013-157	1	COVER, TOP (DOWNSTRM), 10X13 FRICTION FEEDER
2	18007-122	2	BLOCK, FEEDER COVER MTG (10X13)
3	18013-238	1	COVER, TOP, 6X9 @ 10X13
4	18013-232	1	COVER, BETWEEN ROTARY AND 6X9
5	-	4	SCREW, BUTTON HEAD, #10-24 X 1/2
6	-	4	SCREW, SKT HEAD, #10-32 X 1/2

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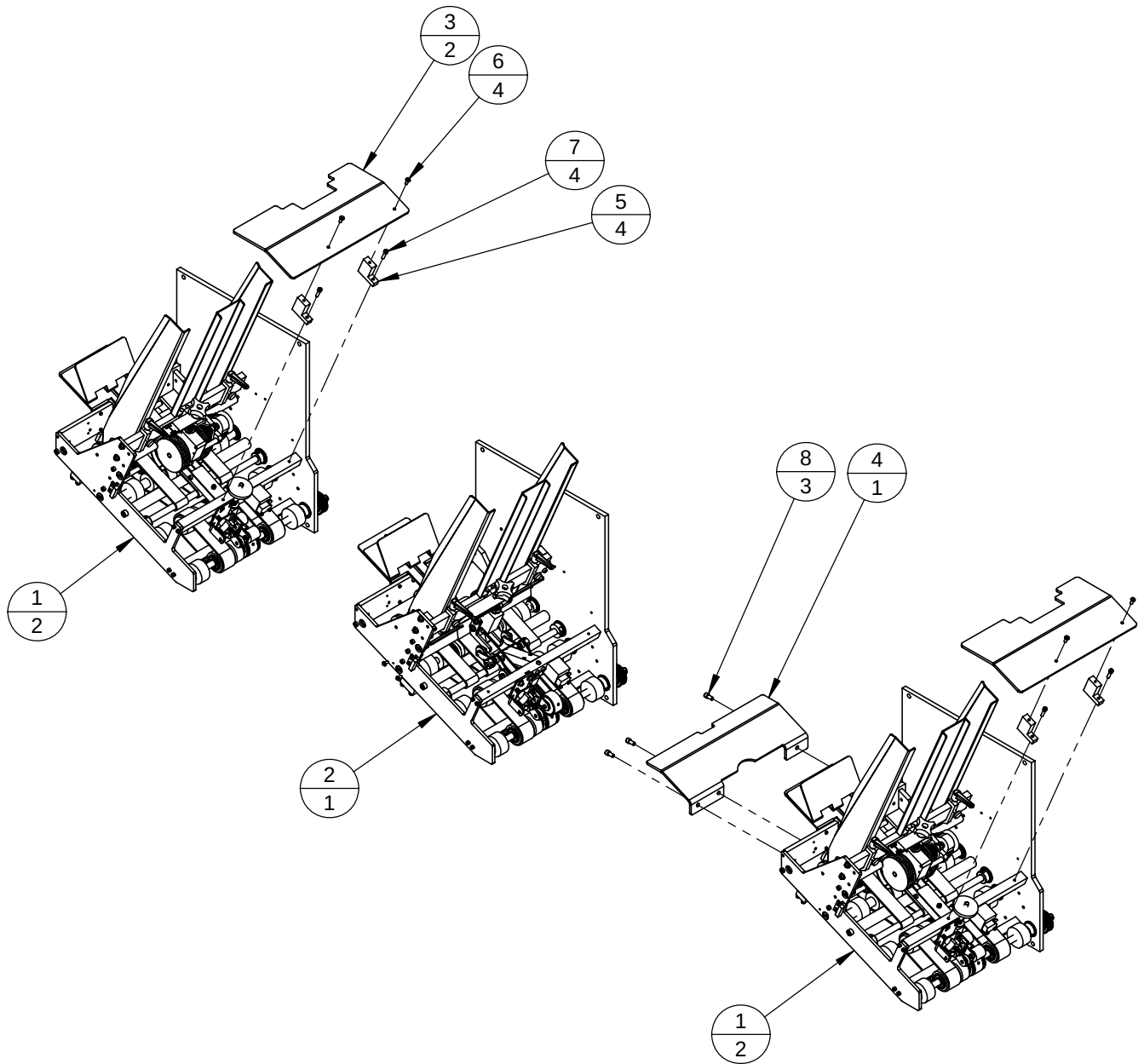


COLLATOR – LEXAN FEEDER COVERS (Fig. 2-25)
10X13 FRICTION AND THIN MAT'L FEEDERS

ITEM	PART NO.	QTY.	DESCRIPTION
1	18020-367	2	ASSEMBLY, FEEDER, 10X13 FRICTION
2	18020-376	1	ASSEMBLY, FEEDER, 10X13 THIN MAT'L
3	18013-158	2	COVER, TOP, 10X13 FRICTION FEEDER
4	18013-218	1	COVER, TOP, 10X13 THIN MAT'L FEEDER
5	18007-122	4	BLOCK, FEEDER COVER MTG (10X13)
6	-	4	SCREW, BUTTON HEAD, #10-24 X 1/2
7	-	4	SCREW, SKT HEAD, #10-32 X 1/2
8	-	3	SCREW, SKT HEAD, 1/4-20 X 1/2

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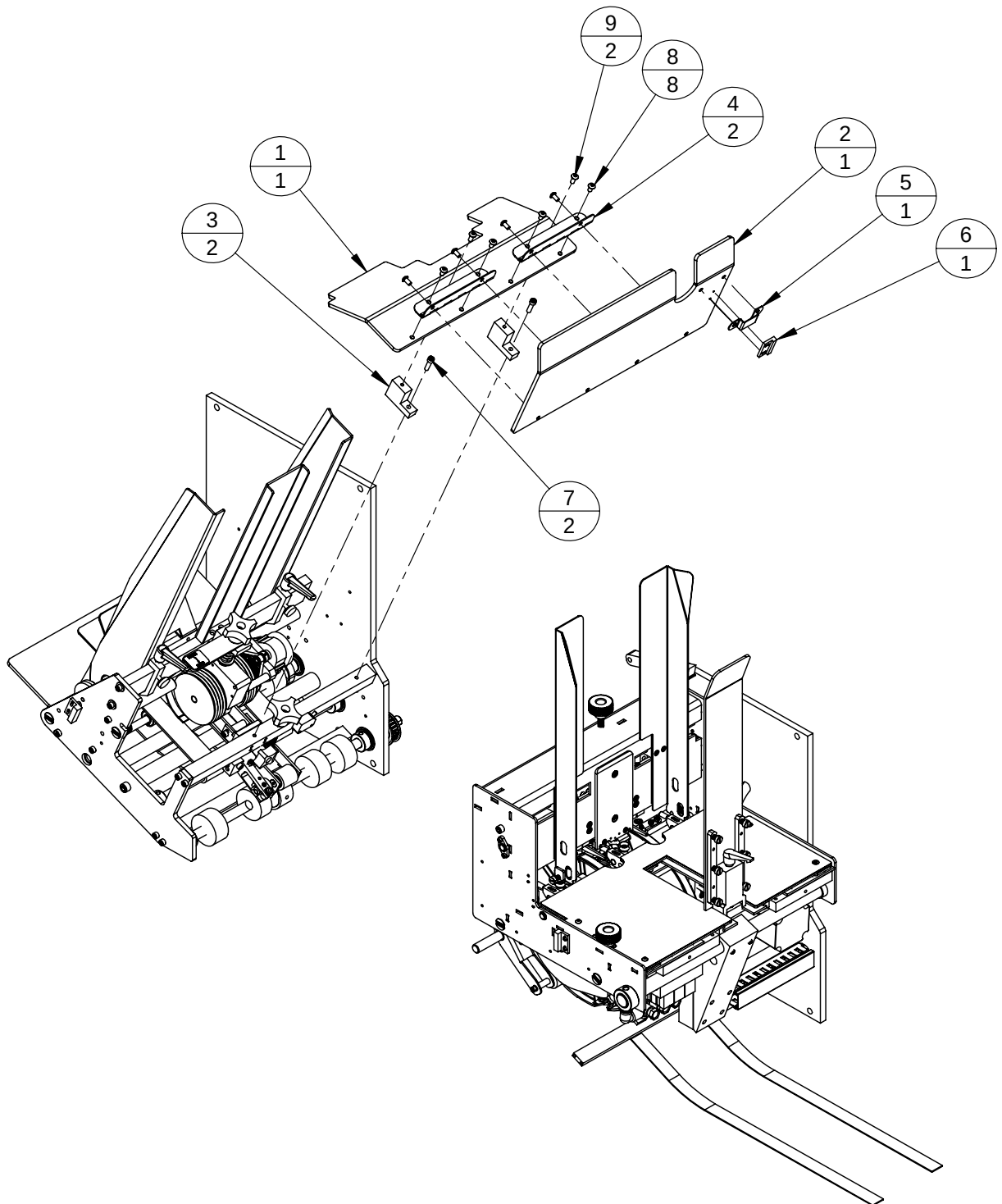


COLLATOR – LEXAN FEEDER COVERS (Fig. 2-26)
6X9 FEEDER @ ROTARY FEEDER

ITEM	PART NO.	QTY.	DESCRIPTION
1	18013-227	1	COVER, TOP, 6X9 FRICTION FEEDER @ ROTARY
	18013-236	1	COVER, TOP, 6X9 THIN MAT'L FEEDER @ ROTARY
2	18013-226	1	COVER, REAR, ROTARY FEEDER
3	18007-124	2	BLOCK, FEEDER COVER MTG (6X9)
4	18013-121	2	HINGE, SHORT, 5"
5	18009-052	1	BRACKET, MAGNETIC LATCH
6	98020-024	1	MAGNET, REED SWITCH
7	-	2	SCREW, SKT HEAD, #10-32 X 3/4
8	-	8	SCREW, BUTTON HEAD, #10-24 X 3/8
9	-	2	SCREW, BUTTON HEAD, #10-24 X 1/2

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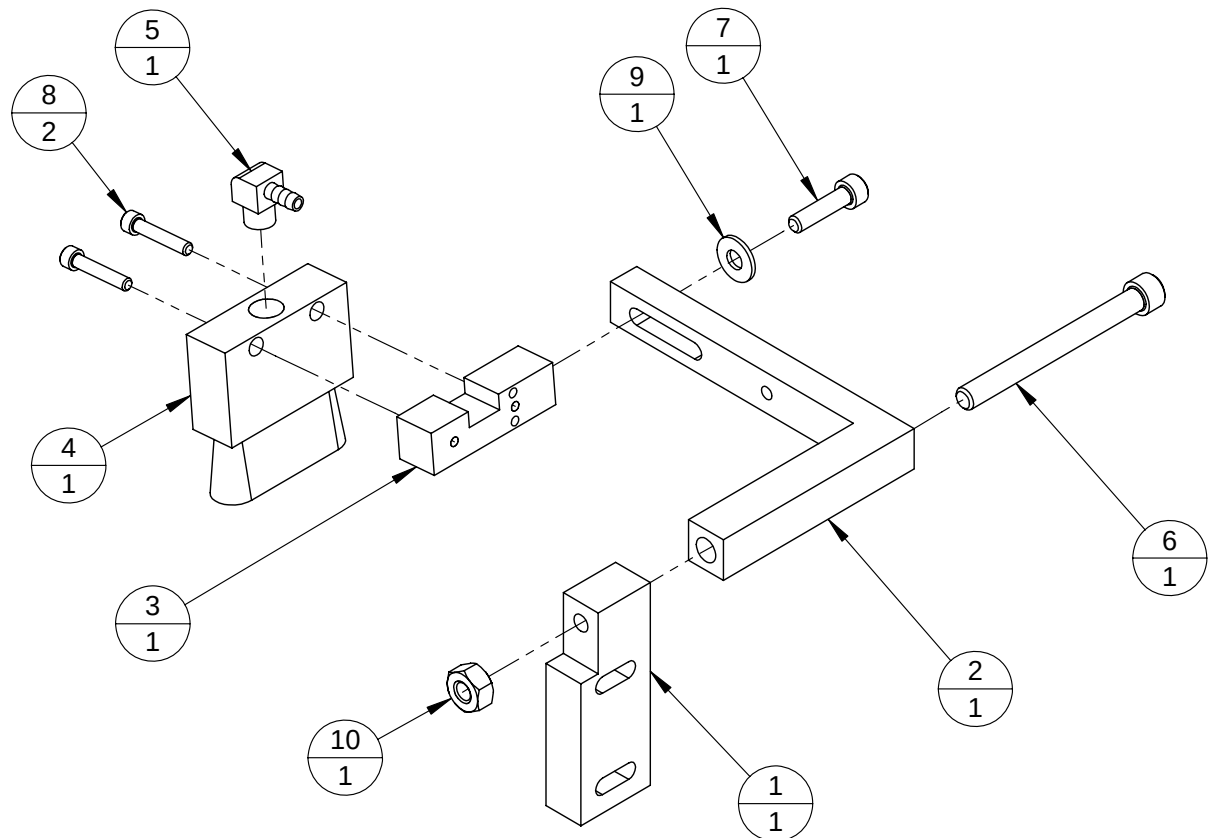


**COLLATOR – WATER BRUSH ASSEMBLY (Fig. 2-27)
 (18020-085)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18007-053	1	BLOCK, BRUSH MTG.
2	18009-008	1	BRACKET, BRUSH MTG.
3	18007-067	1	BLOCK, BRUSH PIVOT
4	18019-005	1	BRUSH, WATER
5	99028-038	1	FITTING, HOSE BAR ELBOW, 1/4 T X 1/16 NPT
6	-	1	SCREW, SKT HEAD, 1/4-20 X 2-1/2
7	-	1	SCREW, SKT HEAD, #10-24 X 3/4
8	-	2	SCREW, SKT HEAD, #6-32 X 3/4
9	-	1	FLAT WASHER, #10
10	-	1	NUT, HEX, 1/4-20
11	99031-005	4'	TUBING, CLEAR, 1/8 ID X 1/4 OD (NOT SHOWN)

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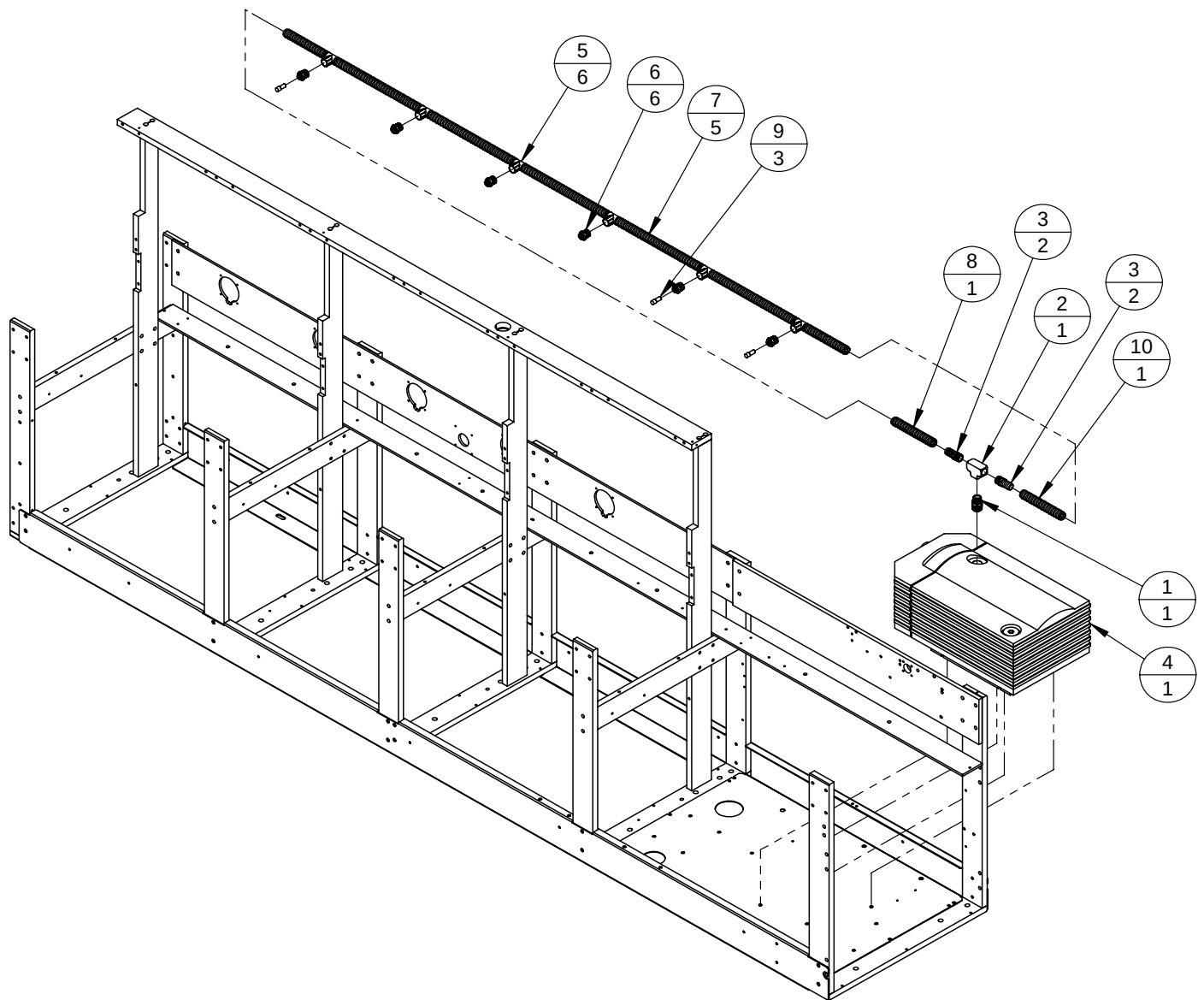


**COLLATOR – ROTARY VACUUM ASSEMBLY (Fig. 2-28)
 (18020-368)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	99028-176	1	FITTING, NIPPLE REDUCER, 3/4 NPT – 1/2 NPT
2	99028-171	1	FITTING, BRASS TEE, 1/2 NPT
3	99028-170	2	FITTING, HOSE BARB, 1/2 NPT X 3/4 HOSE
4	99029-016	1	PUMP, VACUUM, 1.2 HP
5	99028-196	6	FITTING, REDUCING TEE, 1/2 NPT 3/4 HOSE
6	99028-197	6	FITTING, MALE CONNECTOR, 1/2 NPT X M10 TUBE
7	99031-022	5	HOSE, 3/4" ID (12.56" LONG)
8	99031-022	1	HOSE, 3/4" ID (125" LONG)
9	99028-198	3	FITTING, PLUG, M10 TUBE (FOR NON ROTARY FEEDERS)
10	99031-022	1	HOSE, 3/4" ID (32" LONG)

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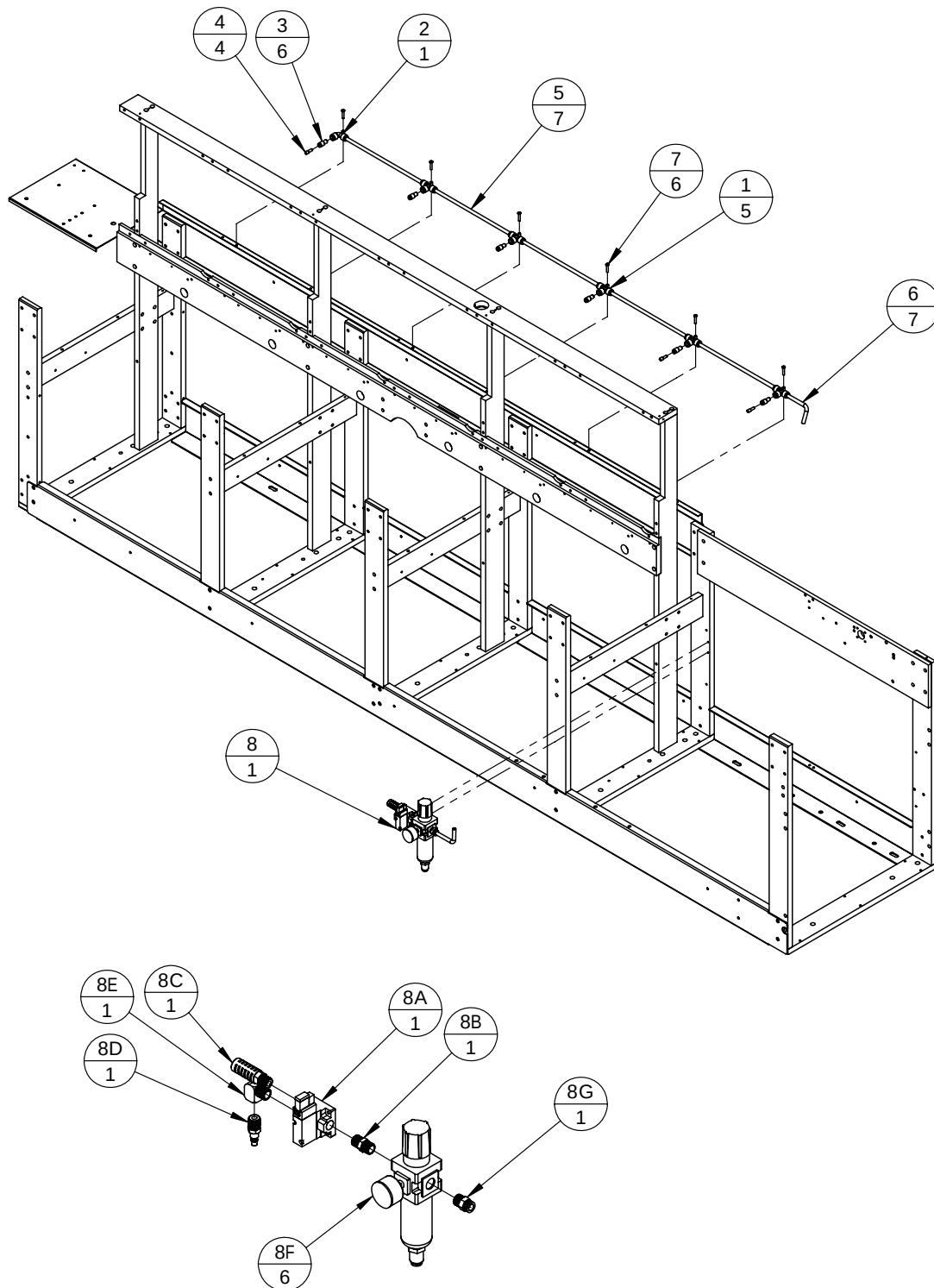


**COLLATOR – ROTARY AIR JET ASSEMBLY (Fig. 2-29)
(18020-369)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	99028-200	5	FITTING, TEE, M10 TUBE
2	99028-201	1	FITTING, ELBOW, M10 TUBE
3	99028-202	6	FITTING, REDUCER, M10 TO M6
4	99028-203	3	FITTING, PLUG, M6 TUBE
5	99031-028	5	TUBING, CLEAR, M10 (13.25" LONG)
6	99031-028	2	TUBING, CLEAR, M10 (25" LONG)
7	-		SCREW, PAN HEAD, #6-32 X 3/8
8	18020-398	1	ASSEMBLY, PNEUMATICS
8A	99025-010	1	VALVE, 24 VDC SOLENIOD, BASE MTG, 3/8 NPT PORTS
8B	99028-071	1	FITTING, NEX NIPPLE, 3/8 NPT
8C	99028-069	1	FITTING, MUFFLER, 3/8 NPT
8D	99028-001	1	COUPLING, QUICK DISCONNECT, 1/4 X 3/8 NPT
8E	99028-004	1	ELBOW, BRASS STREET, 90 DEG., 3/8 NPT
8F	99026-008	1	REGULATOR / FILTER
8G	99028-199	1	FITTING, MALE CONNECTOR, 3/8 NPT X M10 TUBE

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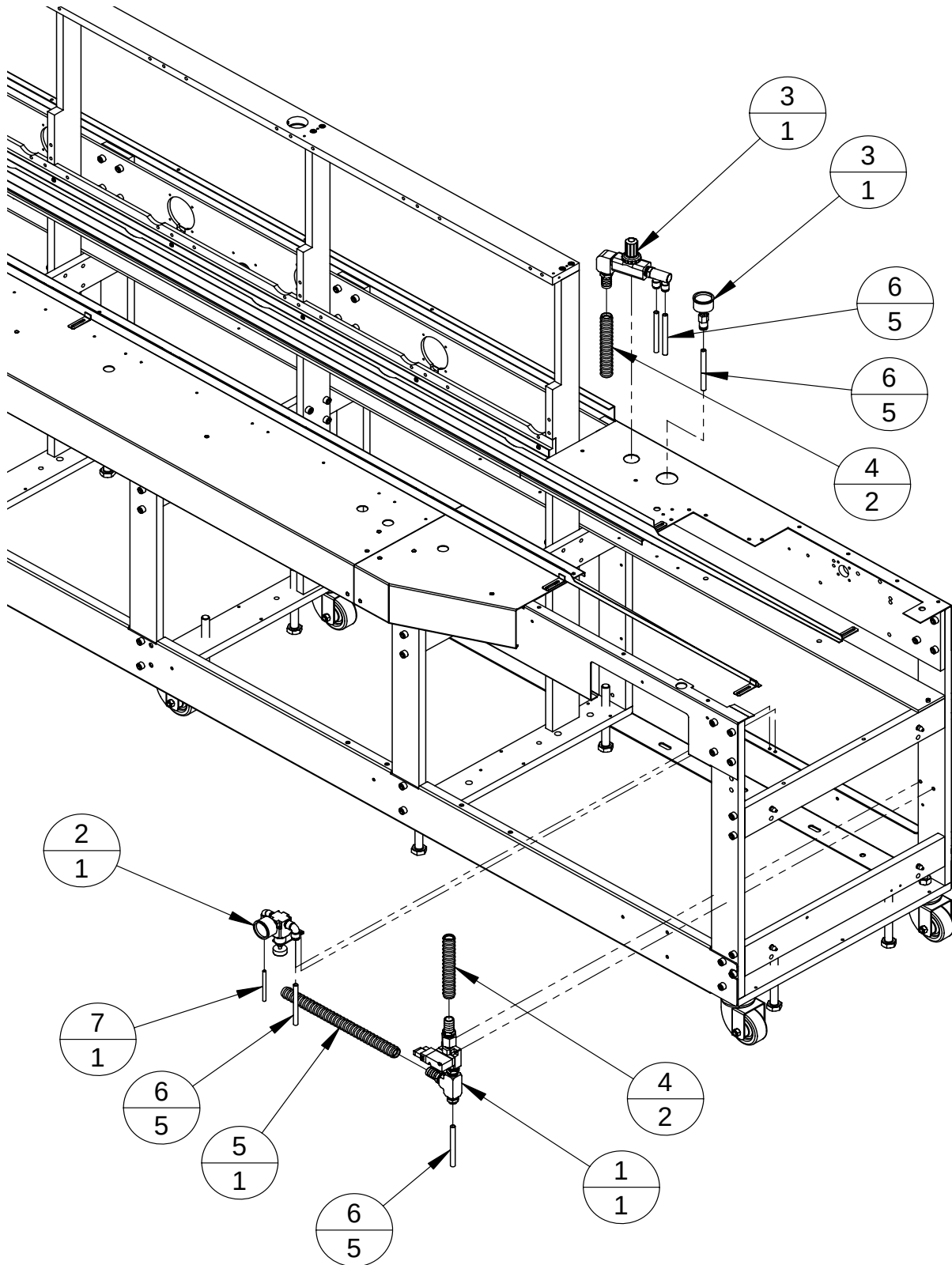


COLLATOR – PNEUMATICS ASSEMBLY (Fig. 2-30)

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 2-31	1	ASSEMBLY, INSERT AIR VALVE (18020-347)
2	SEE FIG. 2-31	1	ASSY, WATER PRESSURE REGULATOR (18020-349)
3	SEE FIG. 2-32	1	ASSY, INSERT AIT FLOW CONTROL (18020-348)
4	99031-015	2	HOSE, GREY, 3/4" ID
5	99031-022	1	HOSE, YELLOW, 3/4" ID
6	99031-010	5	TUBING, BLUE, 3/8" OD
7	99031-013	1	TUBING, BLACK, 1/4" OD

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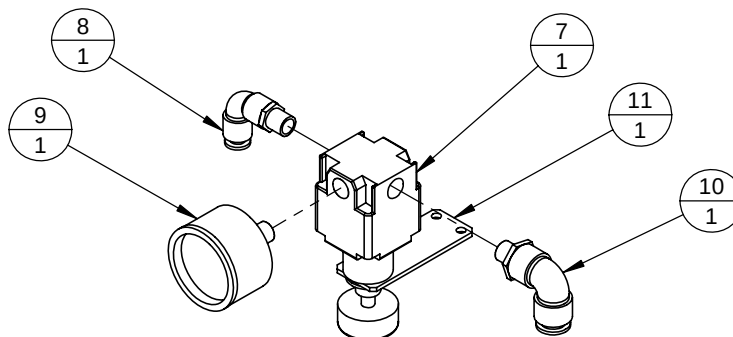
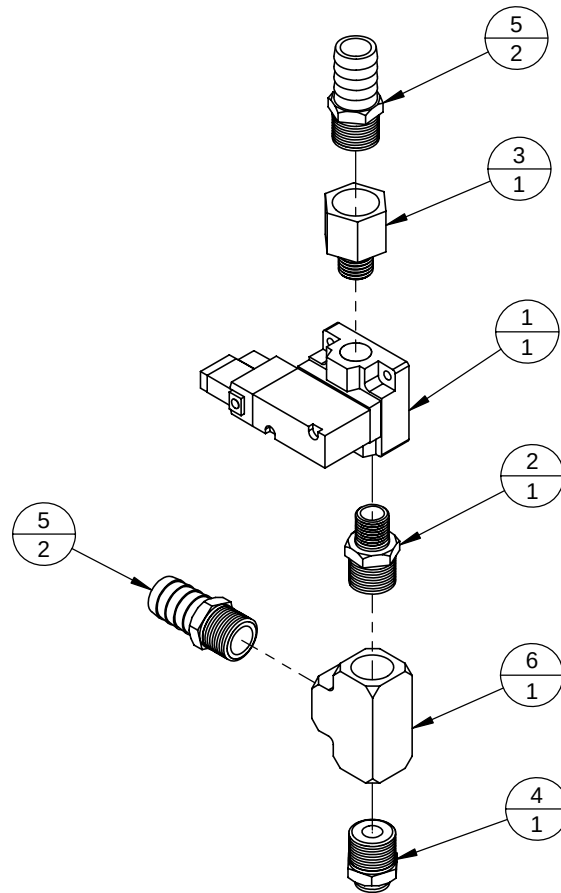
**COLLATOR – PNEUMATICS (Fig. 2-31)
 VALVE AND REGULATOR ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-347		ASSEMBLY, INSERT AIR VALVE
1	99025-010	1	VALVE, 24 VDC SOLENOID, BASE MTG, 3/8 NPT PORTS
2	99028-168	1	FITTING, REDUCING NIPPLE, 1/2 X 3/8 NPT
3	99028-169	1	FITTING, ADAPTOR, 1/2 F-NPT X 3/8 M-NPT
4	99028-172	1	FITTING, MALE CONNECTOR, 1/2 NPT X 3/8 TUBE
5	99028-170	2	FITTING, HOSE BARB, 1/2 NPT X 3/4 HOSE
6	99028-171	1	FITTING, BRASS TEE, 1/2 NPT
	18020-349	1	ASSEMBLY, WATER PRESSURE, REGULATOR
7	99026-021	1	REGULATOR, 1/8 NPT
8	99028-074	1	FITTING, ELBOW, 1/8 NPT X 1/4 TUBE
9	99030-001	1	GAUGE, 1/8 NPT, 0-15 PSI
10	99028-022	1	FITTING, ELBOW, 1/8 NPT X 3/8 TUBE
11	18011-134	1	PLATE, WATER REGULATOR MTG.

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ASSY# 18020-347



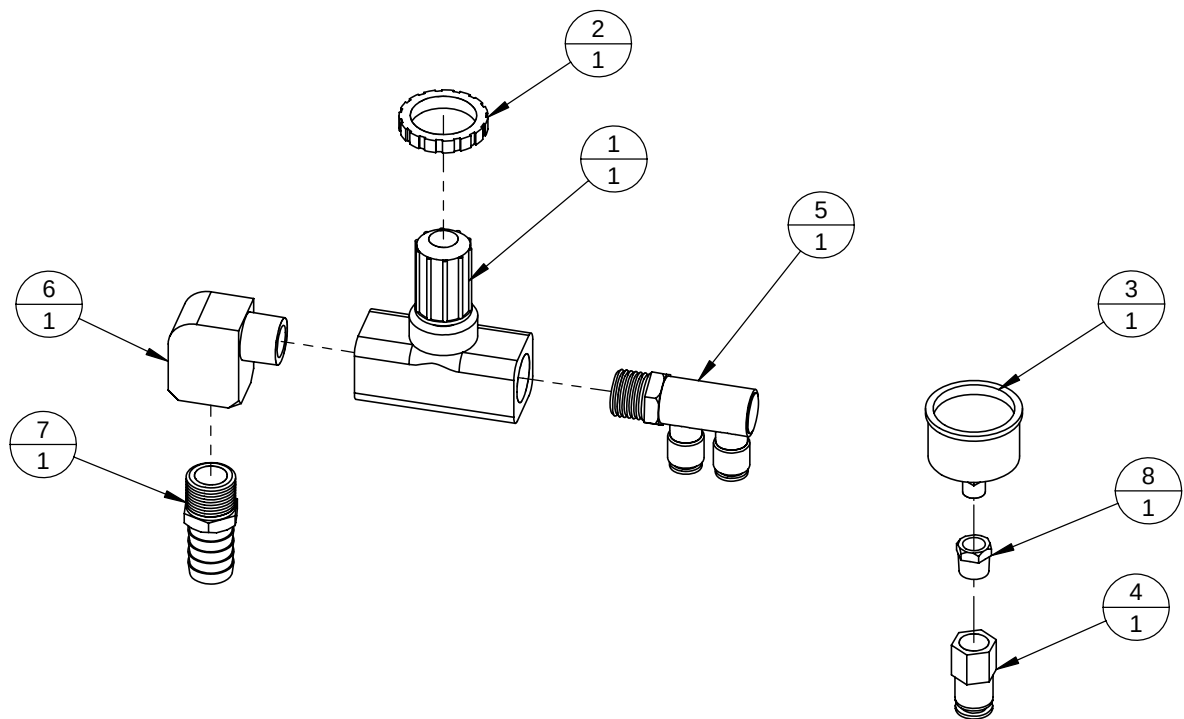
ASSY# 18020-349

COLLATOR – PNEUMATICS (Fig. 2-32)
INSERT AIR FLOW CONTROL ASSEMBLY (18020-348)

ITEM	PART NO.	QTY.	DESCRIPTION
1	99025-034	1	VALVE, FLOW CONTROL
2	99025-035	1	NUT, PANEL MOUNT
3	99030-006	1	GAUGE, 1/8 NPT, 0-30 PSI
4	99028-173	1	FITTING, FEMALE CONNECTOR, 1/4 NPT X 3/8 TUBE
5	99028-174	1	FITTING, DOUBLE MALE ELBOW, 1/2 NPT X 3/8 TUBE
6	99028-005	1	ELBOW, BRASS STREET, 90 DEG, 1/2 NNPT
7	99028-170	1	FITTING, HOSE BARB, 1/2 NPT X 3/4 HOSE
8	99028-120		FITTING, REDUCER, 1/4 M-NPT X 1/8 F-NPT

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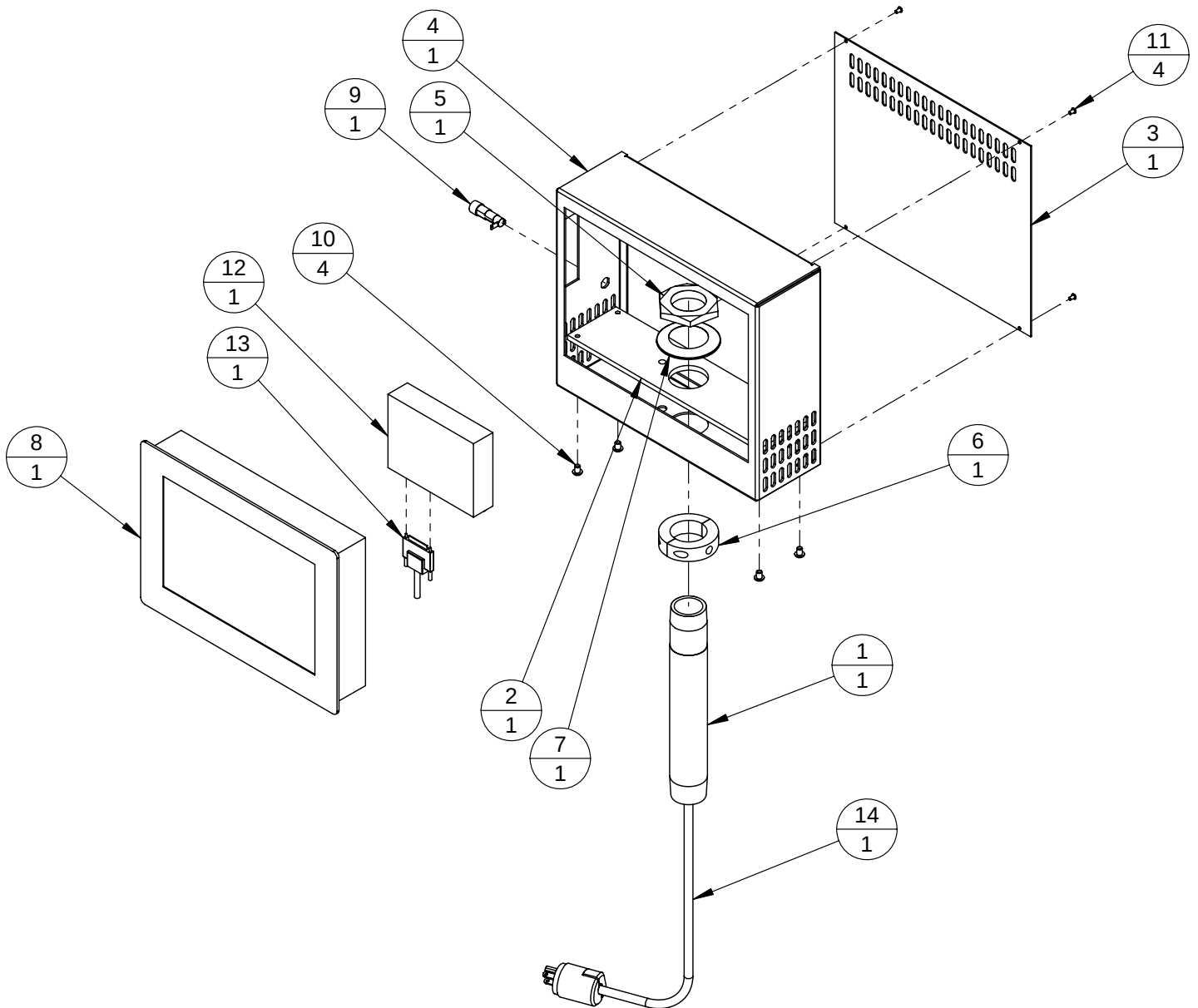


**COLLATOR – TOUCH SCREEN ASSEMBLY (Fig. 2-33)
 (18021-096)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18019-023	1	POST, ENCLOSURE SUPPORT
2	18011-020	1	PLATE, STIFFENER
3	18011-021	1	BACK PLATE, TOUCHSCREEN ENCLOSURE
4	18013-001	1	ENCLOSURE, TOUCH SCREEN
5	18019-002	1	NUT, TOUCH SCREEN ENCLOSURE MTG.
6	18019-001	1	COLLAR, 2-PIECE CLAMP, 1-5/8" ID
7	99005-014	1	WASHER, SPRING, 45.5 MM
8	98013-085	1	TOUCH SCREEN, GT1575
9	98004-026	1	FUSE HOLDER, PANAL MTG.
	98004-017	1	FUSE, 1A, SLOW BLOW, 5 X 20MM
10	-	4	SCREW, BUTTON HEAD, 1/4-20 X 5/16
11	-	4	SCREW, BUTTON HEAD, #6-32 X 1/4
12	98013-086	1	INTERFACE, Q BUS
13	98013-087	1	CABLE, COMMUNICATION
14	18021-102	1	ASSEMBLY, POWER CABLE, TOUCH SCREEN

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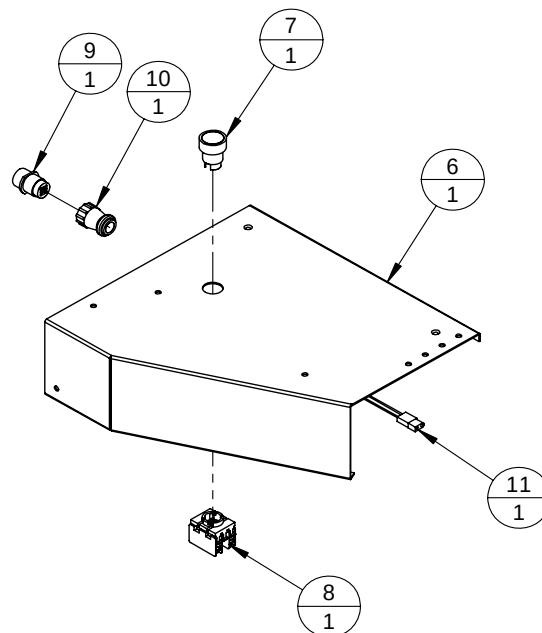
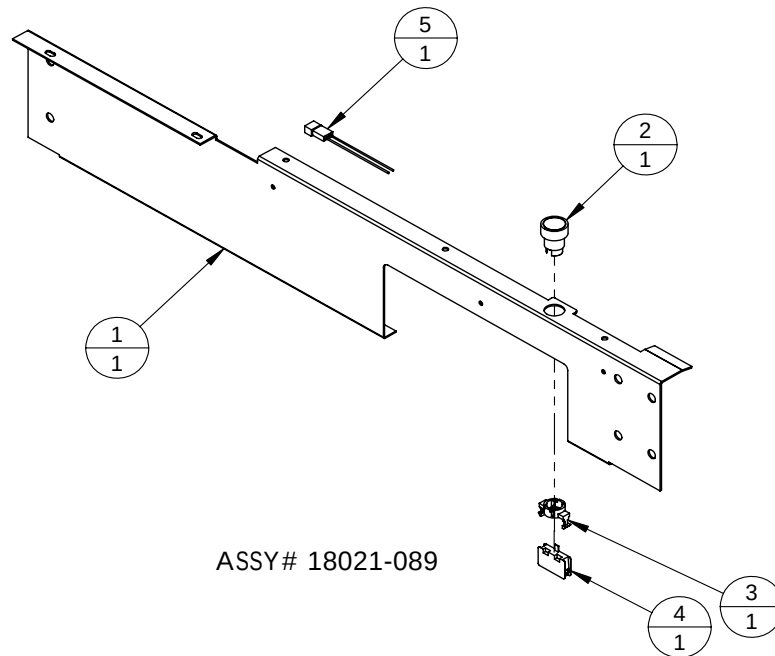


**COLLATOR – ELECTRICAL (Fig. 2-34)
 SWITCH PLATE CABLE ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18021-089	1	ASSEMBLY, SWITCH PLATE CABLE, FRONT
1	18002-012	1	SUPPORT, FRONT JOG DECK
2	98000-032	1	SWITCH, PUSH BUTTON, BLUE, ROUND
3	98000-027	1	SWITCH CLIP ASSY
4	98000-028	1	CONTACT BLOCK, 1 X N.O.
5	98016-024	1	CONNECTOR, MALE, 2-POS. (.093)
	98016-057	2	TERMINAL, PIN (.093)
	18021-090	1	ASSY, SWITCH PLATE CABLE, FRONT JOG DECK
6	18001-081	1	COVER, TOP, FRONT JOG DECK
7	98000-035	1	SWITCH, PUSH BUTTON, BLACK, ROUND
8	98000-017	1	CONTACT BLOCK ASSY, 1 X CLIP, 1 X NO, 1 X NC
9	98016-016	1	RECEPTICAL, FREE HANGING, AMP, 13-9 MALE
	98016-114	6	TERMINAL, PIN
10	98016-008	1	BACKSHELL, PLASTIC, SIZE #13
11	98016-023	1	CONNECTOR, FEMALE, 2-POS. (.093)
	98016-056	2	TERMINAL, SOCKET (.093)

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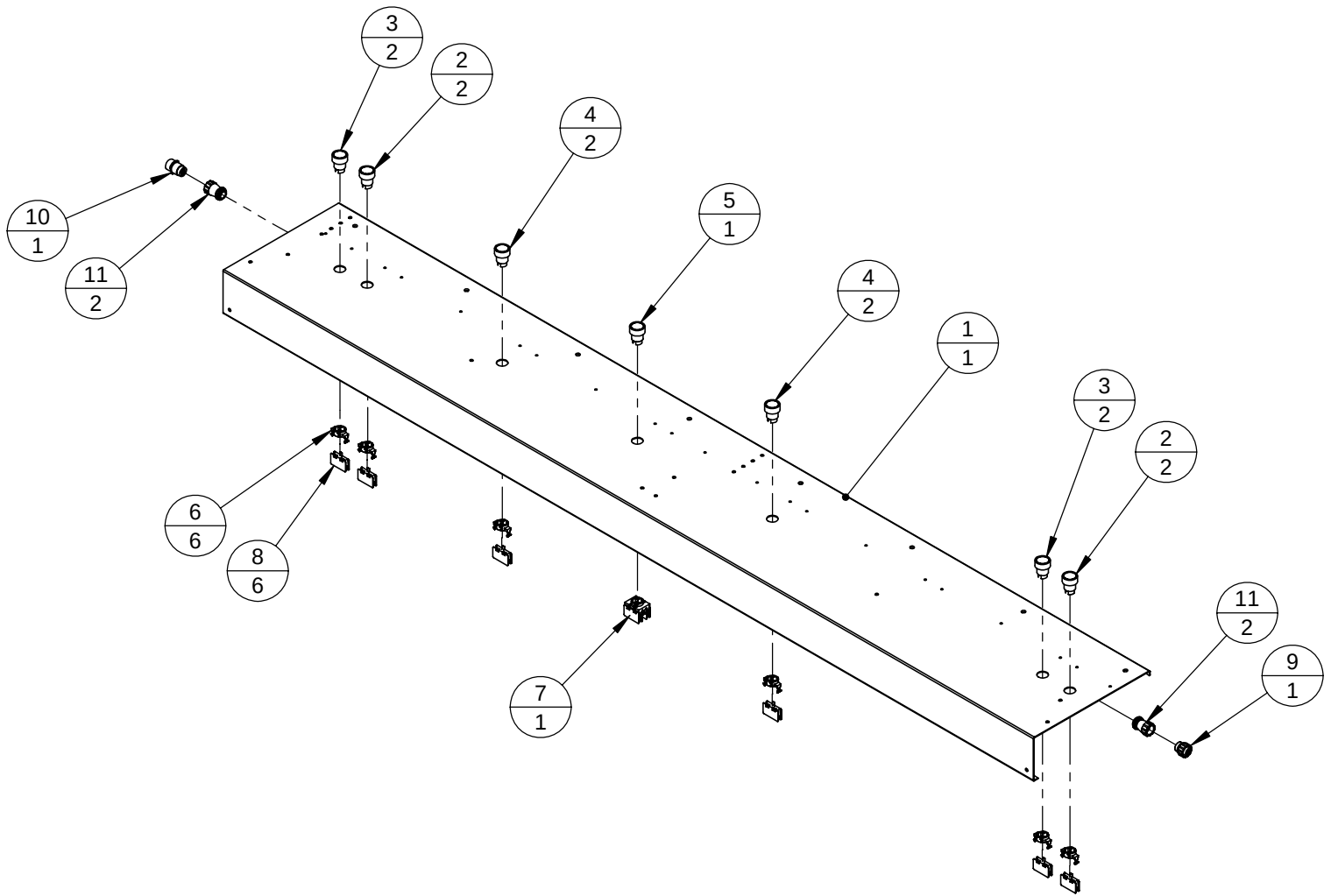


COLLATOR – ELECTRICAL (Fig. 2-35)
SWITCH PLATE CABLE ASSEMBLY (18021-091)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18001-080	1	COVER, TOP CENTER, JOG DECK
2	98000-030	2	SWITCH, PUSH BUTTON, GREEN, ROUND
3	98000-031	2	SWITCH, PUSH BUTTON, YELLOW, ROUND
4	98000-032	2	SWITCH, PUSH BUTTON, BLUE, ROUND
5	98000-035	1	SWITCH, PUSH BUTTON, BLACK, ROUND
6	98000-027	6	SWITCH CLIP ASSY
7	98000-017	1	CONTACT BLOCK ASSY, 1 X CLIP, 1 X NO, 1 X NC
8	98000-028	6	CONTACT BLOCK, 1 X N.O.
9	98016-007	1	PLUG, AMP, 13-9 FEMALE
	98016-117	6	TERMINAL, SOCKET
10	98016-016	1	RECEPTICAL, FREE HANGING, AMP, 13-9 MALE
	98016-114	6	TERMINAL, PIN
11	98016-008	2	BACKSHELL, PLASTIC, SIZE #13

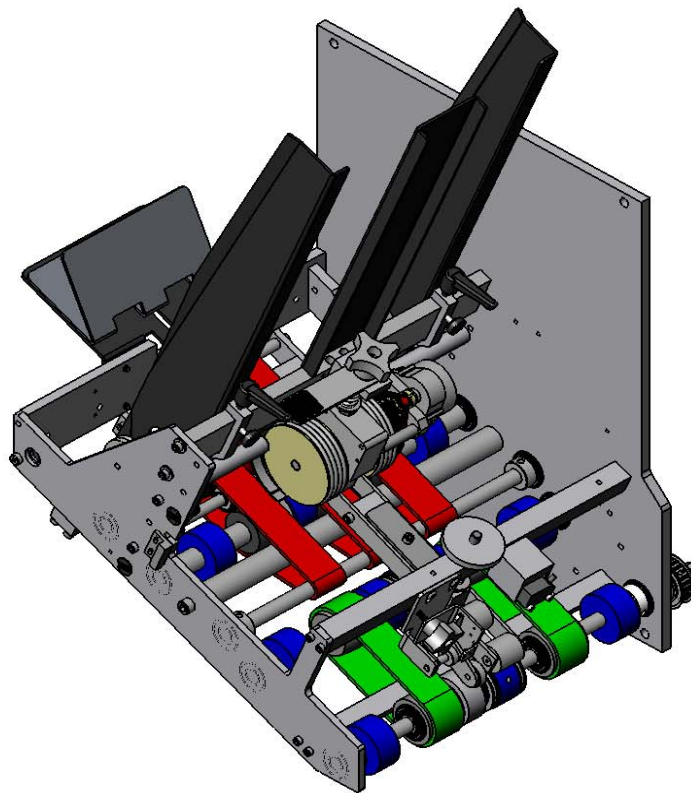
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FRICTION FEEDER 10X13



FRICITION FEEDER ASSEMBLY (Fig. 3-1)
(18020-367)

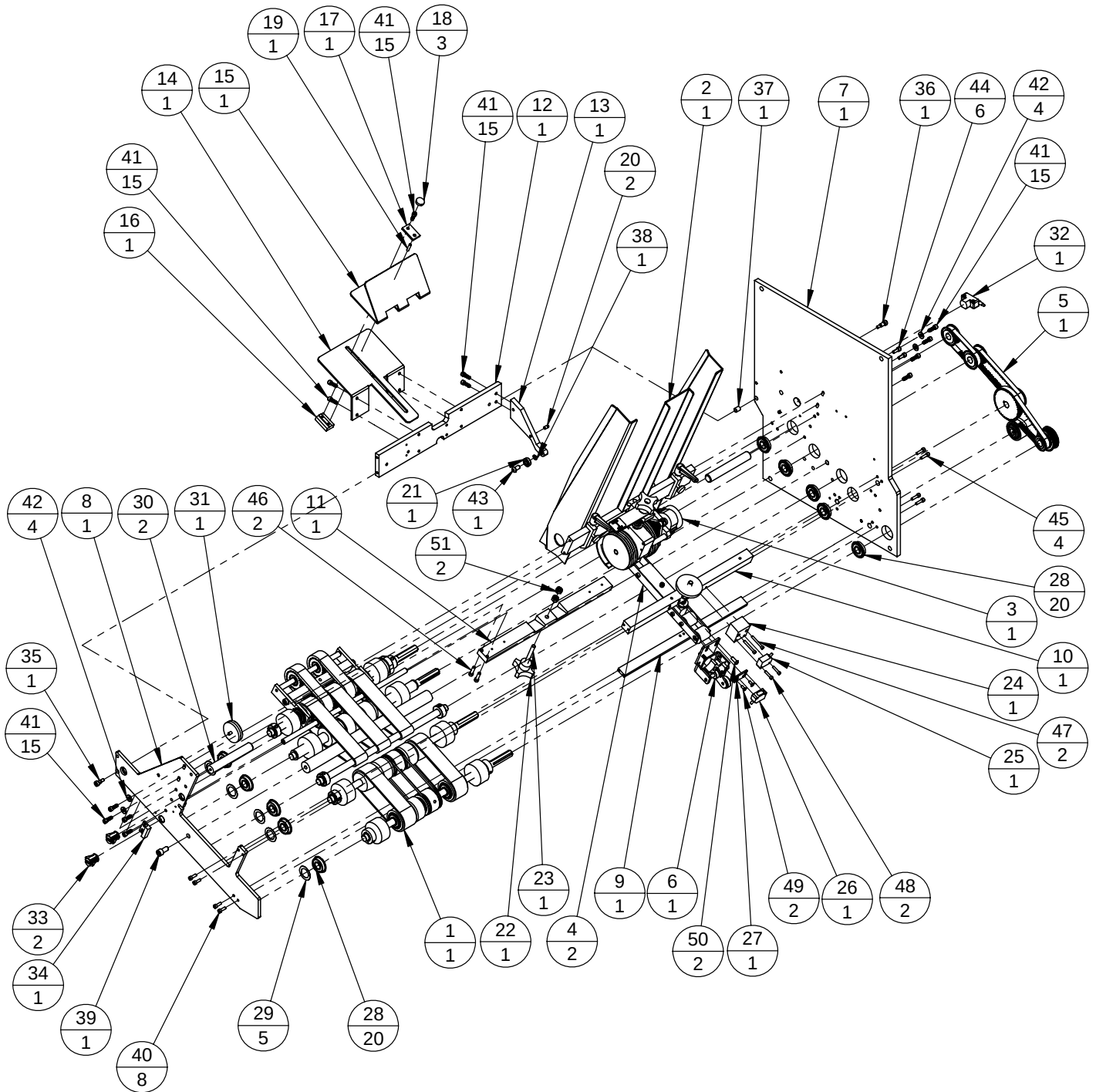
ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 3-2	1	ASSEMBLIES, FEEDER SHAFTS
2	SEE FIG. 3-6	1	ASSEMBLY, PAPER HOPPER (18020-260)
3	SEE FIG. 3-5	1	ASSEMBLY, SEPERATOR (18020-069)
4	SEE FIG. 3-6	1	ASSEMBLY, TONGUE (18020-095)
5	SEE FIG. 3-2	1	ASSEMBLY, FEEDER TIMING
6	SEE FIG. 3-7	1	ASSEMBLY, DOUBLE DETECT (18020-068)
7	18011-095	1	PLATE, FEEDER MTG.
8	10000-018	1	SIDEFAME, COLLATOR FEEDER
9	18008-013	1	BAR, SENSOR / DRAG STRAP MTG.
10	18008-012	1	BAR, DOUBLE DETECT MTG.
11	10008-020	1	BAR, ELEVATOR BELT SUPPORT
12	10008-019	1	BAR, BACK SUPPORT
13	18008-123	1	BAR, CAM FOLLOWER SUPPORT
14	10005-024	1	SUPPORT, PAPER SLIDE
15	10005-104	1	GUIDE, PAPER, REAR WEDGE
16	10007-003	1	NUT, PAPER SLIDE
17	10007-004	1	WASHER, PAPER SLIDE
18	99004-002	1	KNOB, #10 SCREW
19	99006-020	1	ROLL PIN, 5/32 X 3/4
20	99006-031	2	PIN, SPRING CLIP, GROOVED
21	99003-002	1	BEARING, 1/4 X 5/8 SEALED
22	99004-007	1	KNOB, 1/4-20 FEMALE
23	99032-002	1	STUD, THREADED, 1/4-20 X 3
24	18009-024	1	BRACKET, UPPER SENSOR MTG.
25	98009-037	1	SENSOR, SENDER, THRU BEAM
26	98009-002	1	SENSOR, RECIEVER, THRU BEAM
27	18011-075	1	PLATE, ADAPTOR, LOWER SENSOR

**FRICTION FEEDER ASSEMBLY (Fig. 3-1)
(18020-367)**

ITEM	PART NO.	QTY.	DESCRIPTION
28	99003-007	10	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
29	99036-003	5	SHIM, BEARING, 3/4 X 1-1/8 X .006
30	18008-093	2	BAR, SAFETY
31	98019-066	1	REFLECTOR
32	98009-051	1	SENSOR, P&F, RETRO REFLECTIVE
33	99039-062	2	MAGNETIC CATCH
34	98000-036	1	REED SWITCH
35	99033-006	1	SHOULDER BOLT, 1/4 X 1/4
36	99033-004	1	SHOULDER BOLT, 1/4 X 3/8
37	99003-073	1	BUSHING, SLEEVE, 1/4 X 5/16 X 3/8
38	99003-034	1	WASHER, NYLON, 1/2 X 1/16
39	-	1	BOLT, SKT HEAD, 5/16-18 X 5/8
40	-	4	SCREW, SKT HEAD, #8-32 X 5/8
41	-	15	SCREW, SKT HEAD, #10-24 X 5/8
42	-	4	FLAT WASHER, #10
43	-	1	SCREW, BUTTON HEAD, 1/4-20 X 1/2
44	-	2	SCREW, SKT HEAD, #10-24 X 1/2
45	-	4	SCREW, SKT HEAD, #8-32 X 5/8
46	-	2	SCREW, SKT HEAD, #10-24 X 3/4
47	-	2	SCREW, SKT HEAD, #6-32 X 1-1/8
48	-	2	SCREW, SKT HEAD, #6-32 X 5/8
49	-	2	SCREW, FLAT HEAD, #6-32 X 3/8
50	-	2	SCREW, BUTTON HEAD, #10-24 X 1/2
51	-	2	HEX NUT, 1/2-40
52	99005-012	1	SPRING, EXTENSION (NOT SHOWN) (ATTACHES TO ITEM #20)

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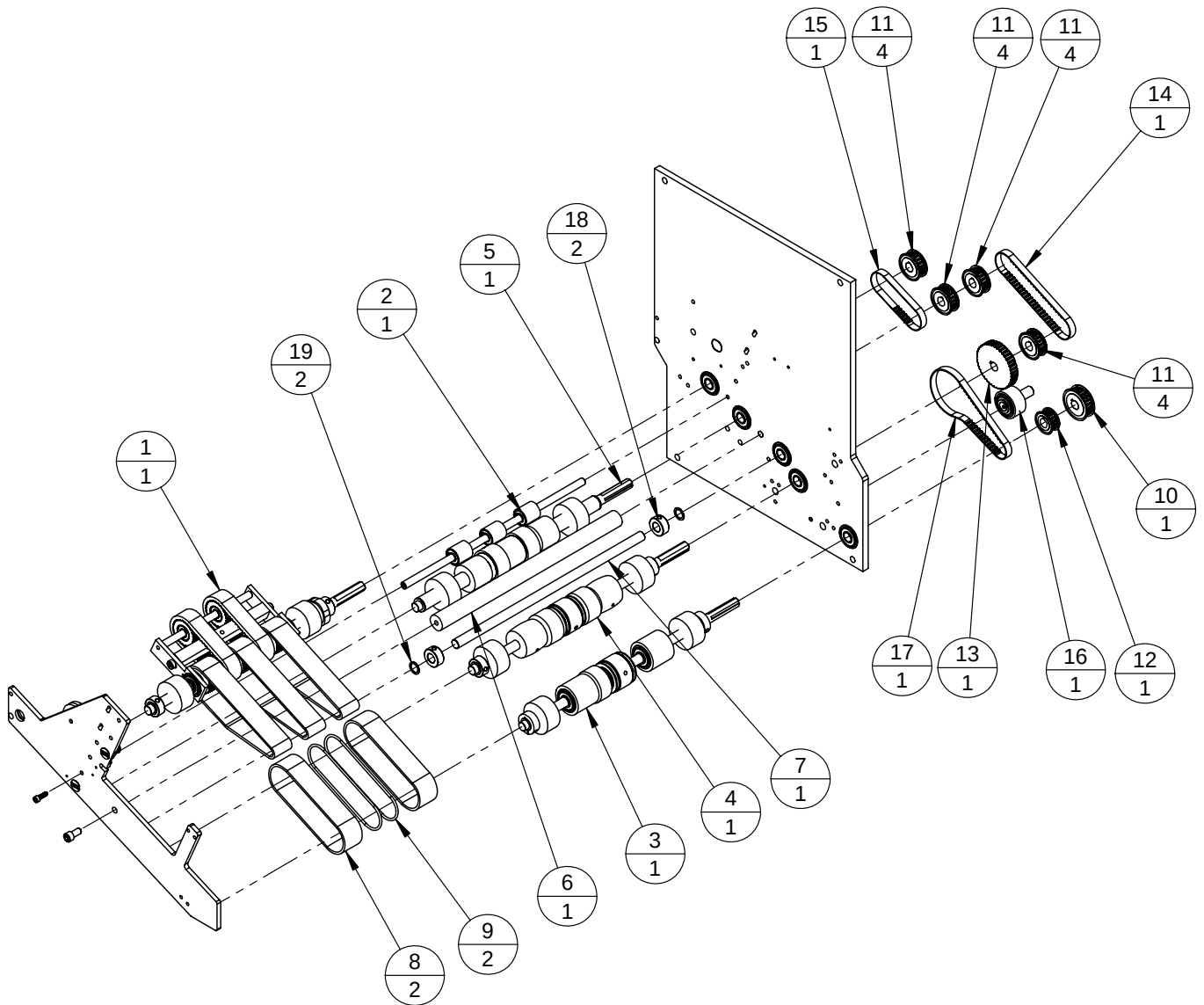


FRICITION FEEDER (Fig. 3-2)
FEEDER SHAFT / TIMING ASSEMBLIES

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 3-3	1	ASSEMBLY, ELEVATOR SHAFT (18020-286)
2	SEE FIG. 3-3	1	ASSEMBLY, IDLER SUPPORT SHAFT (18020-107)
3	SEE FIG. 3-4	1	ASSEMBLY, DOUBLE DETECT SHAFT (18020-110)
4	SEE FIG. 3-4	1	ASSEMBLY, ACCELERATOR SHAFT (18020-111)
5	SEE FIG. 3-4	1	ASSEMBLY, MAIN DRIVE (NIP) (18020-278)
6	18004-003	1	SHAFT, MAIN SUPPORT
7	18004-007	1	SHAFT, FRONT
8	99000-042	2	BELT, RED GUM, ACCELERATOR
9	18014-007	2	O-RING, ACCELERATOR
10	99002-031	1	PULLEY, TIMING, 24XL037, 1/2B
	-	2	SET SCREW, #10-24 X 1/4
11	99002-054	4	PULLEY, TIMING, 20XL037, 1/2B
	-	8	SET SCREW, #10-24 X 1/4
12	99002-032	1	PULLEY, TIMING, 16XL037, 1/2B
	-	2	SET SCREW, #8-32 X 1/8
13	99002-016	1	PULLEY, TIMING, 40XL037, 1/2B NO FLANGES
	-	2	SET SCREW, #10-24 X 3/8
14	99000-033	1	BELT, TIMING, 130XL037
15	99000-001	1	BELT, TIMNG, 90XL037
16	SEE FIG. 3-7	1	ASSEMBLY, TENSIONER (18020-153)
17	99000-032	1	BELT, TIMNG, 138XL037
18	99017-004	2	COLLAR, 1/2 SHAFT
19	99003-032	2	WASHER, NYLON, 1/2 X 1/32

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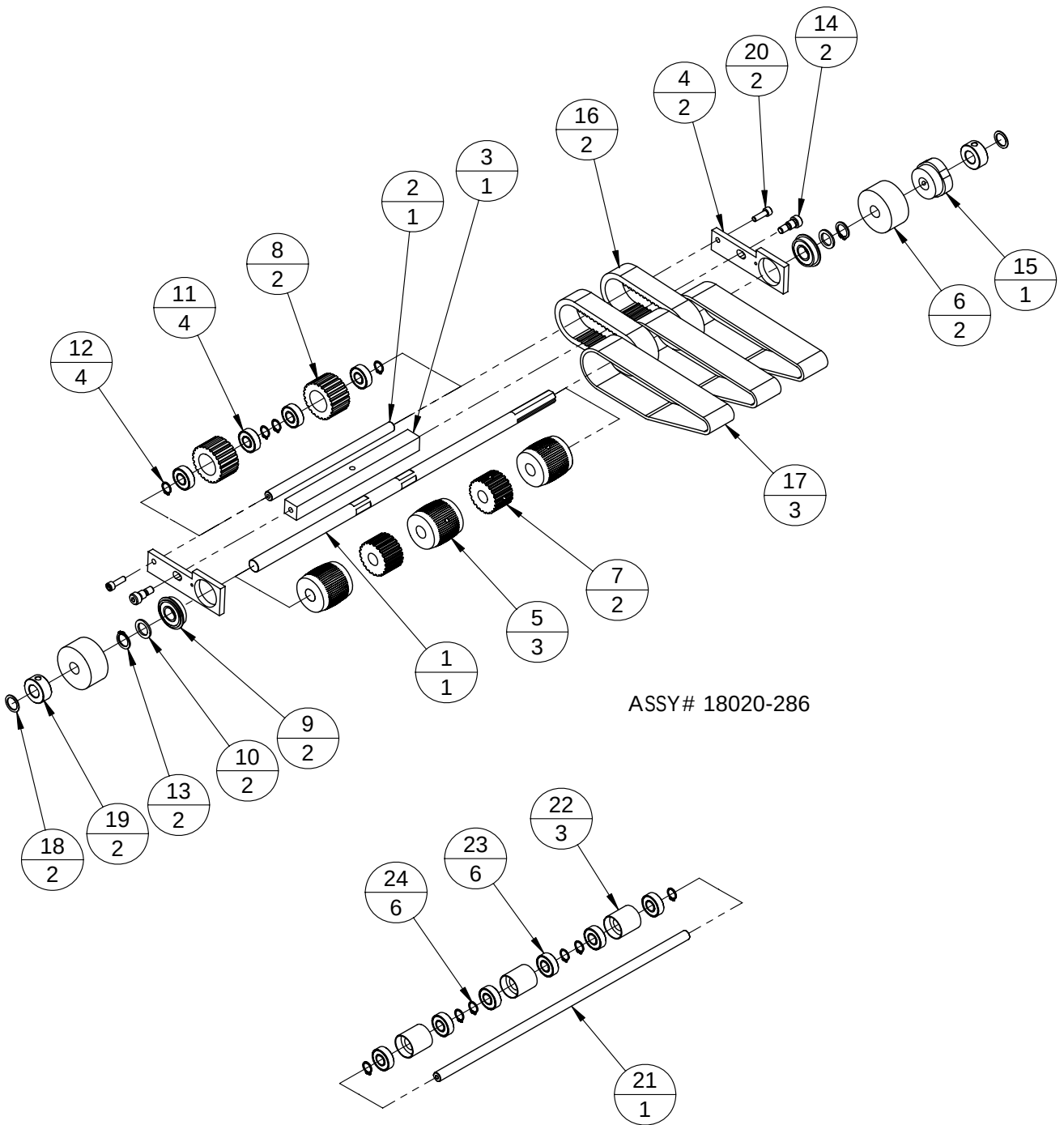


**FRICITION FEEDER (Fig. 3-3)
 ELEVATOR / IDLER SUPPORT SHAFT ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-286	1	ASSEMBLY, ELEVATOR SHAFT
1	18004-058	1	SHAFT, ELEVATOR BELT DRIVE
2	10004-057	1	SHAFT, IDLER
3	10008-018	1	BAR, ELEVATOR ADJ.
4	10007-013	2	BLOCK, ELEVATOR SUPPORT
5	10006-018	3	PULLEY, CROWNED
	-	6	SET SCREW, #10-32 X 1/4
6	10006-007	2	ROLLER, FEEDER, 1/2 BORE
7	10006-021	2	PULLEY, ELEVATOR DRIVE
	-	4	SET SCREW, #10-32 X 1/4
8	10006-022	2	PULLEY, ELEVATOR IDLER
9	99003-007	2	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
10	99003-018	2	WASHER, NYLON, 1/2 X 1/16
11	99003-008	4	BEARING, 3/8 X 7/8 SEALED
12	99022-003	4	SNAP RING, 3/8
13	99022-004	2	SNAP RING, 1/2
14	99033-008	2	SHOULDER BOLT, 5/16 X 1/4
15	18016-015	1	CAM, VIBRATING BACKSTOP
16	99000-005	2	BELT, ELEVATOR (RED)
17	99000-004	3	BELT, RED GUM
18	99003-032	2	WASHER, NYLON, 1/2 X 1/32
19	99017-004	2	COLLAR, 1/2 SHAFT
20	-	2	SCREW, SKT HEAD, #10-32 X 5/8
	18020-107	1	ASSEMBLY, IDLER SUPPORT SHAFT
21	18004-004	1	SHAFT, IDLER SUPPORT
22	10006-012	3	ROLLER, IDLER
23	99003-008	6	BEARING, 3/8 X 7/8 SEALED
24	99022-004	6	SNAP RING, 3/8

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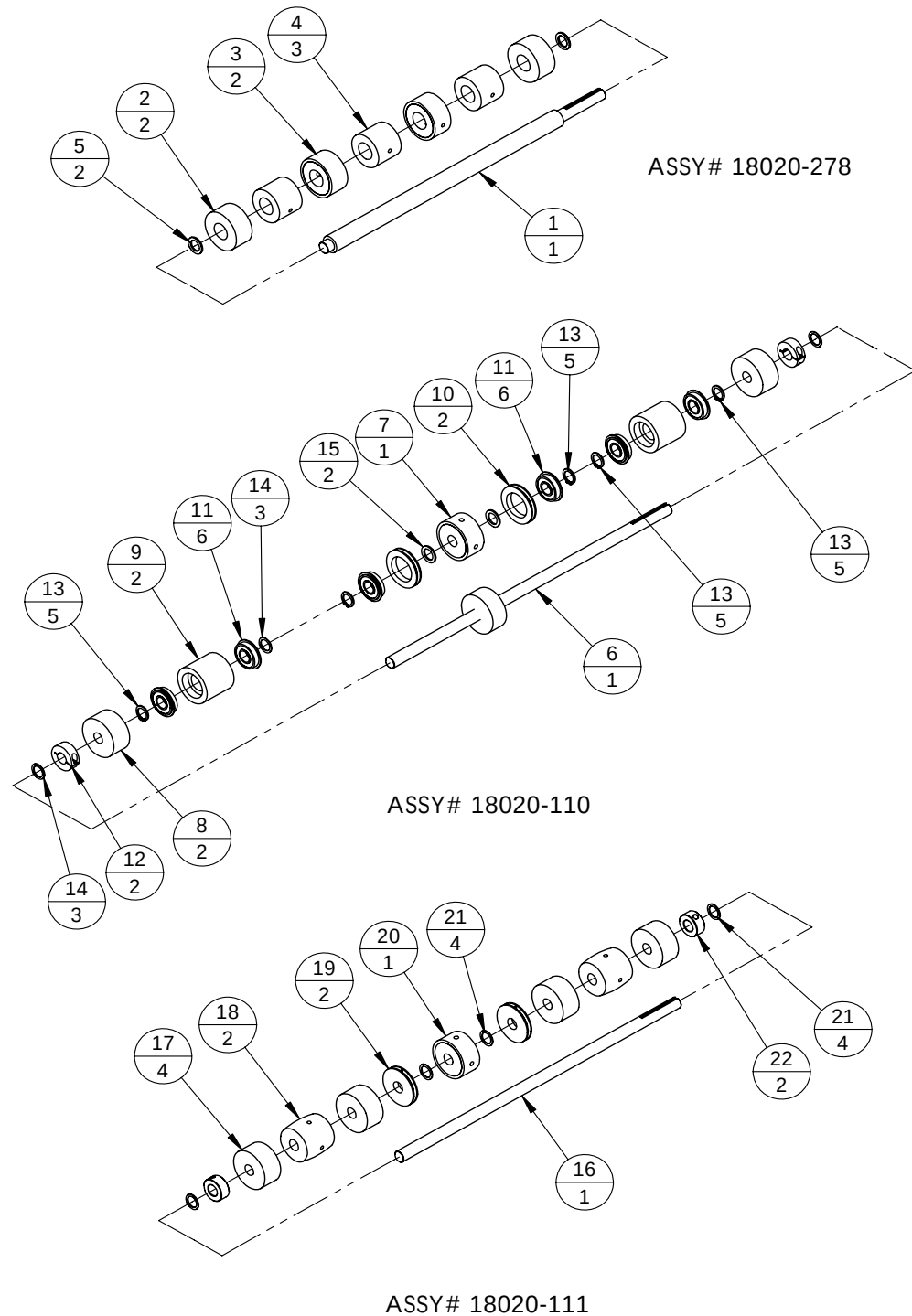


FRICITION FEEDER (Fig. 3-4)
NIP / DBL DETECT / ACCELERATOR SHAFT ASSEMBLIES

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-278	1	ASSEMBLY, MAIN DRIVE (NIP) SHAFT
1	18004-091	1	SHAFT, MAIN DRIVE (NIP)
2	10006-069	2	ROLLER, FEEDER, 3/4 BORE
3	10006-070	2	ROLLER, NIP, 3/4 BORE
	-	4	SET SCREW, #10-32 X 1/4
4	10006-071	3	PULLEY, MATE, 3/4 BORE
	-	6	SET SCREW, #10-32 X 1/4
5	99003-018	2	WASHER, NYLON, 1/2 X 1/16
	18020-110	1	ASSEMBLY, DOUBLE DETECT SHAFT
6	18004-064	1	SHAFT, DOUBLE DETECT
7	10006-013	1	ROLLER, NIP
	-	2	SET SCREW, #10-32 X 1/4
8	10006-007	2	ROLLER, FEEDER, 1/2 BORE
9	10006-032	2	PULLEY, IDLER
10	10006-030	2	PULLEY, O-RING IDLER
11	99003-007	6	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
12	99017-028	2	COLLAR, ONE PIECE SPLIT – 1/2B
13	99022-004	5	SNAP RING, 1/2
14	99003-032	3	WASHER, NYLON, 1/2 X 1/32
15	99003-018	2	WASHER, NYLON, 1/2 X 1/16
	18020-111	1	ASSEMBLY, ACCELERATOR DRIVE
16	18004-006	1	SHAFT, MAIN
17	10006-007	4	ROLLER, FEEDER, 1/2 BORE
18	10006-031	2	PULLEY, ACCELERATOR DRIVE
	-	4	SET SCREW, # 10-32 X 1/4
19	10006-004	2	PULLEY, O-RING DRIVE
	-	4	SET SCREW, #8-32 X 1/4
20	10006-013	1	ROLLER, NIP
	-	2	SET SCREW, #10-32 X 1/4
21	99003-032	4	WASHER, NYLON, 1/2 X 1/32
22	99017-004	2	COLLAR, 1/2 SHAFT

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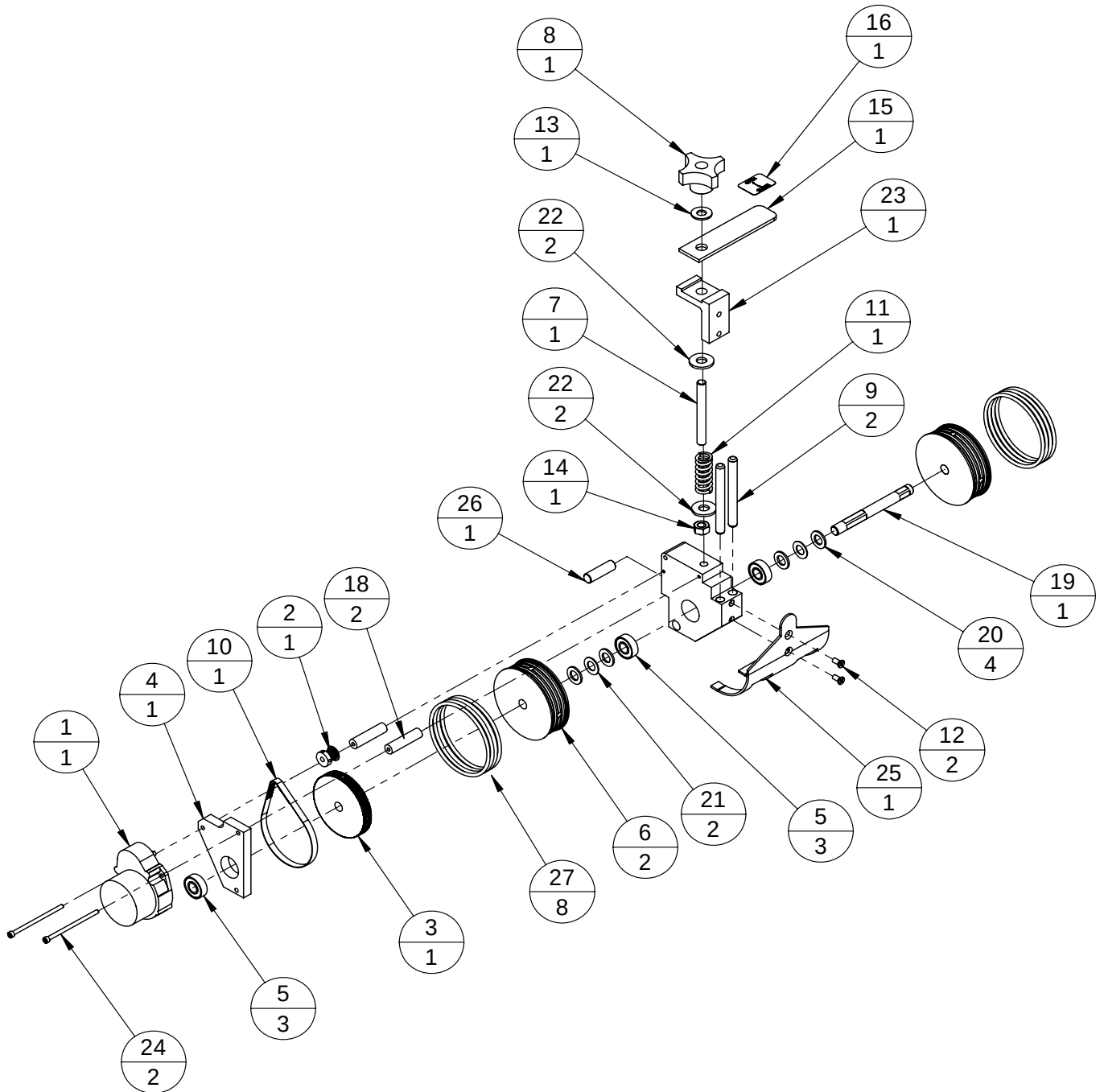


**FRICTION FEEDER (Fig. 3-5)
SEPERATOR ASSEMBLY (18020-069)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	99001-018	1	MOTOR, SEPERATOR, 24VAC
2	99002-002	1	PULLEY, TIMING, 16MXL025, 3/16 B
	-	2	SET SCREW, #6-32 X 1/4
3	99002-001	1	PULLEY, TIMING, 100MXL025, 3/8 B
	-	2	SET SCREW, #10-24 X 1/2
4	10011-001	1	PLATE, SEPERATOR MOTOR MTG.
5	99003-001	3	BEARING, SEALED, 3/8 X 7/8
6	10006-001	2	WHEEL, SEPERATOR, 3" DIAM
	-	4	SET SCREW, #10-32 X 3/8
7	10004-028	1	STUD, SEPERATOR ADJ.
8	99004-001	1	KNOB, 5/16-24 FEMALE
9	99006-002	2	PIN, DOWEL, 5/16 X 3
10	99000-006	1	BELT, TIMING, 115MXL025
11	99005-045	1	SPRING, SEPERATOR
12	-	2	SCREW, FLAT HEAD, #6-32 X 3/8
13	99003-015	1	WASHER, NYLON, 5/16 X 1/16
14	-	1	HEX NUT, 5/16-24
15	10008-024	1	BAR, SEPERATOR RELEASE
16	18017-008	1	LABEL, SEPERATOR ADJ.
17	10007-001	1	BLOCK, SEPERATOR
18	10012-002	2	STANDOFF, SEPERATOR MOTOR
19	10004-001	1	SHAFT, SEPERATOR
20	99003-017	4	WASHER, NYLON, 3/8 X 1/16
21	99003-016	2	WASHER, NYLON, 1/2 X 1/32
22	-	2	WASHER, FLAT, 5/16
23	10007-010	1	BLOCK, SEPERATOR ADJ.
24	-	2	SCREW, SKT HEAD, #6-32 X 2-1/2
25	10005-003	1	SHROUD, SEPERATOR
26	99006-001	1	PIN, DOWEL, 3/8 X 1-1/4
27	10014-002	8	O-RING, SEPERATOR, 3"

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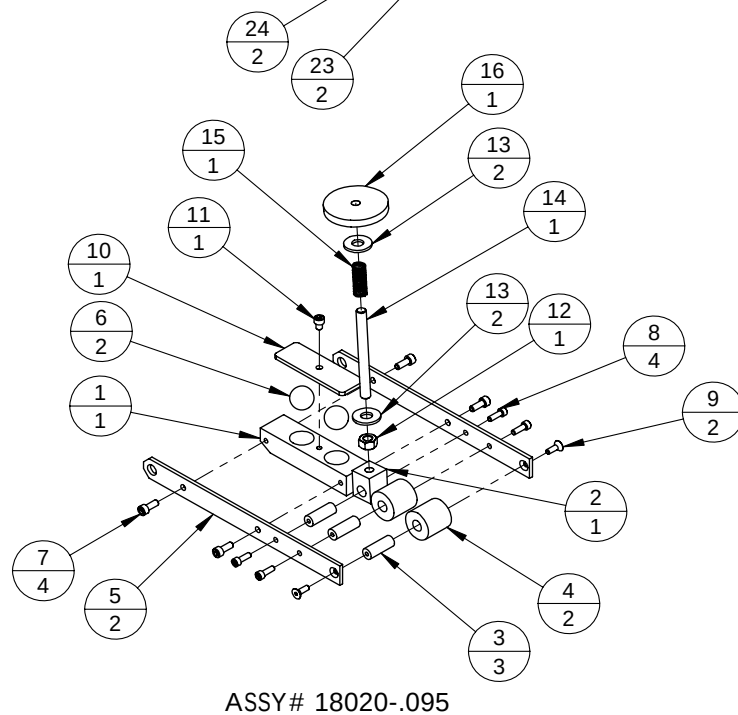
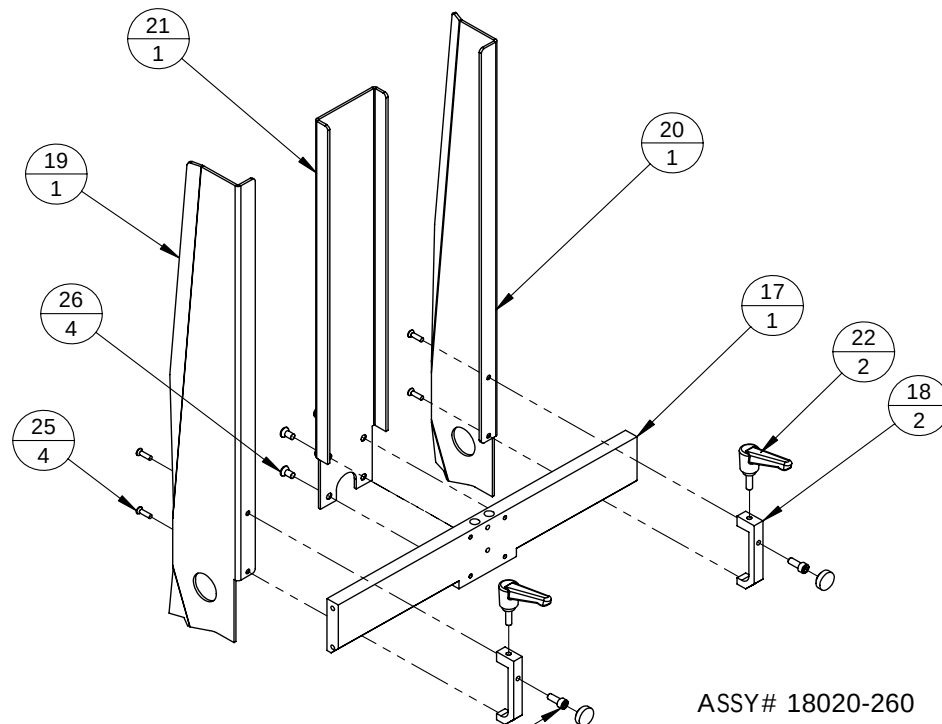


**FRICTION FEEDER (Fig. 3-6)
 PAPER HOPPER / TONGUE ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-095	1	ASSEMBLY, TONGUE (10X13)
1	18007-090	1	BLOCK, BALL RACK (10X13)
2	10007-012	1	BLOCK, TONGUE ADJ.
3	10012-003	3	SPACER, TONGUE
4	10006-016	2	ROLLER TONGUE
5	10008-021	2	BAR, TONGUE SUPPORT
6	99037-001	2	BALL CHROME STEEL, 3/4" DAIM
7	-	4	SCREW, SKT HEAD, #10-24 X 1/2
8	-	4	SCREW, SKT HEAD, #8-32 X 1/2
9	-	2	SCREW, FLAT HEAD, #8-32 X 1/2
10	10013-041	1	COVER, BALL RACK
11	-	1	SCREW, SKT HEAD, #10-24 X 3/8
12	-	1	HEX NUT, 5/16-24
13	-	2	FLAT WASHER, 5/16
14	10004-055	1	STUD, TONGUE ADJ.
15	99005-006	1	SPRING, COMPRESSION
16	10006-028	1	DISK, TONGUE ADJ.
	18020-260	1	ASSEMBLY, FEEDER HOPPER
17	18003-010	1	CROSSBAR, SEPERATOR
18	10009-046	2	BRACKET, SIDE GUIDE MTG.
19	10005-009	1	SIDE GUIDE, RH
20	10005-008	1	SIDE GUIDE, LH
21	10005-002	1	GUIDE FRONT PAPER
22	99004-003	2	HANDLE, RATCHET, #10-24 X 5/8
23	99004-002	2	KNOB, #10 SCREW
24	-	2	SCREW, SKT HEAD, #10-32 X 1/2
25	-	4	SCREW, FLAT HEAD, #6-32 X 1/2
26	-	4	SCREW, FLAT HEAD, #10-24 X 3/8

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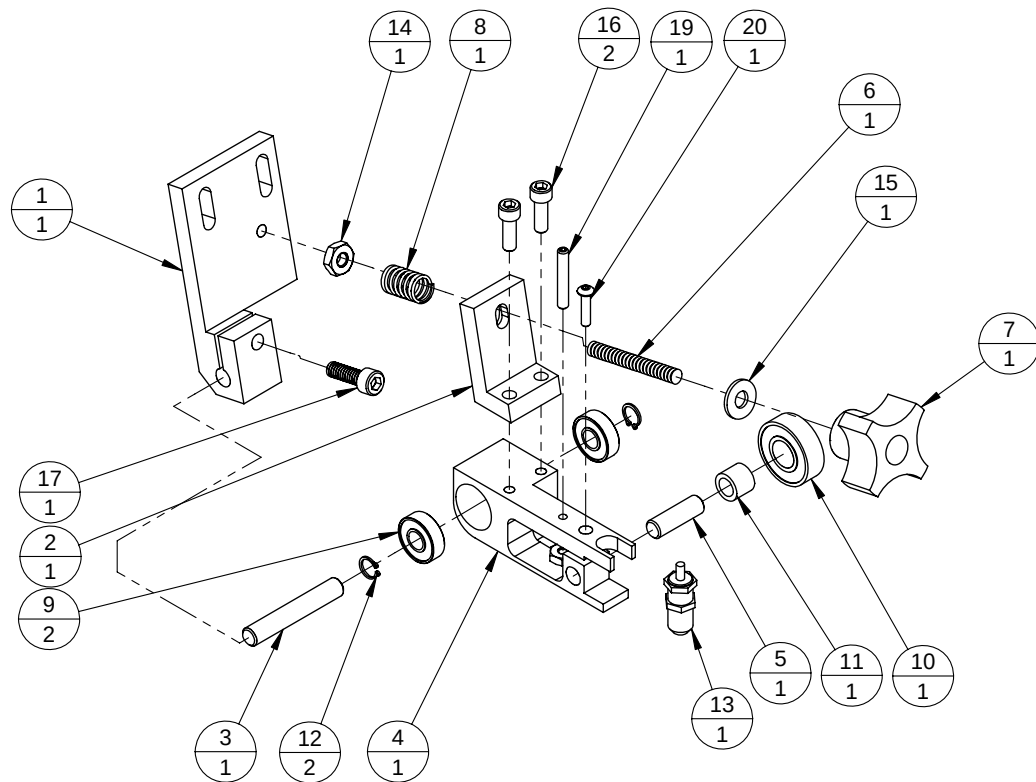


**FRICITION FEEDER (Fig. 3-7)
DOUBLE DETECT / TENSIONER ASSEMBLIES**

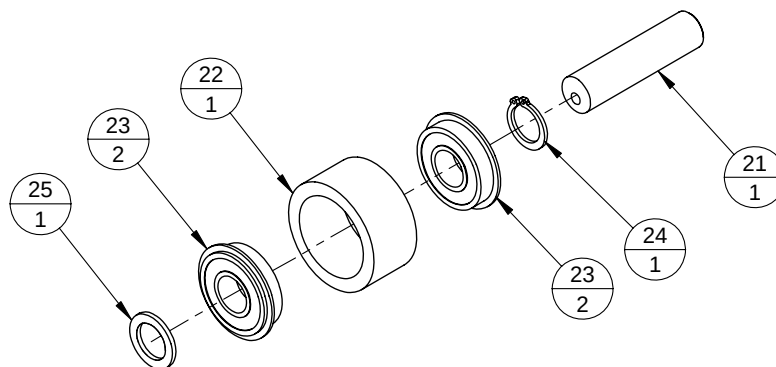
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-068	1	ASSEMBLY, DOUBLE DETECT
1	18009-001	1	BRACKET, DBL DETECT MTG.
2	10009-013	1	BRACKET, PIVOT, TUNING FORK
3	10004-052	1	SHAFT, DBL DETECT PIVOT
4	10009-012	1	BRACKET, TUNING FORK
5	10004-053	1	SHAFT, DBL DETECT
6	99032-003	1	STUD, #10-32 X 1-1/2
7	99004-005	1	KNOB, FEMALE, #10-32
8	99005-007	1	SPRING, GATE ADJ.
9	99003-002	2	BEARING, 1/4 X 5/8 SEALED
10	99003-001	1	BEARING, 3/8 X 7/8 SEALED
11	99003-005	1	BUSHING, SLEEVE, 1/4 X 3/8 X 5/16
12	99022-001	2	SNAP RING, ¼
13	98009-004	1	SENSOR, DBL DETECT SWITCH
14	-	1	NUT, HEX, #10-32
15	-	1	FLAT WASHER, #10
16	-	2	SCREW, SKT HEAD, #8-32 X 1/2
17	-	1	SCREW, SKT HEAD, #10-24 X 5/8
18	-	1	NUT, HEX, #6-32
19	-	1	SCREW, SET, #6-32 X 7/8
20	-	1	SCREW, BUTTON HEAD, #4-40 X 1/2
	18020-153	1	ASSEMBLY, TENSIONER
21	18004-031	1	SHAFT, STUB IDLER
22	18006-011	1	PULLEY, FLAT IDLER, 1-1/2" OD X 3/4" W
23	99003-007	2	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
24	99003-018	1	WASHER, NYLON, 1/2 X 1/16
25	99022-004	1	SNAP RING, 1/2

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ASSY# 18020-068



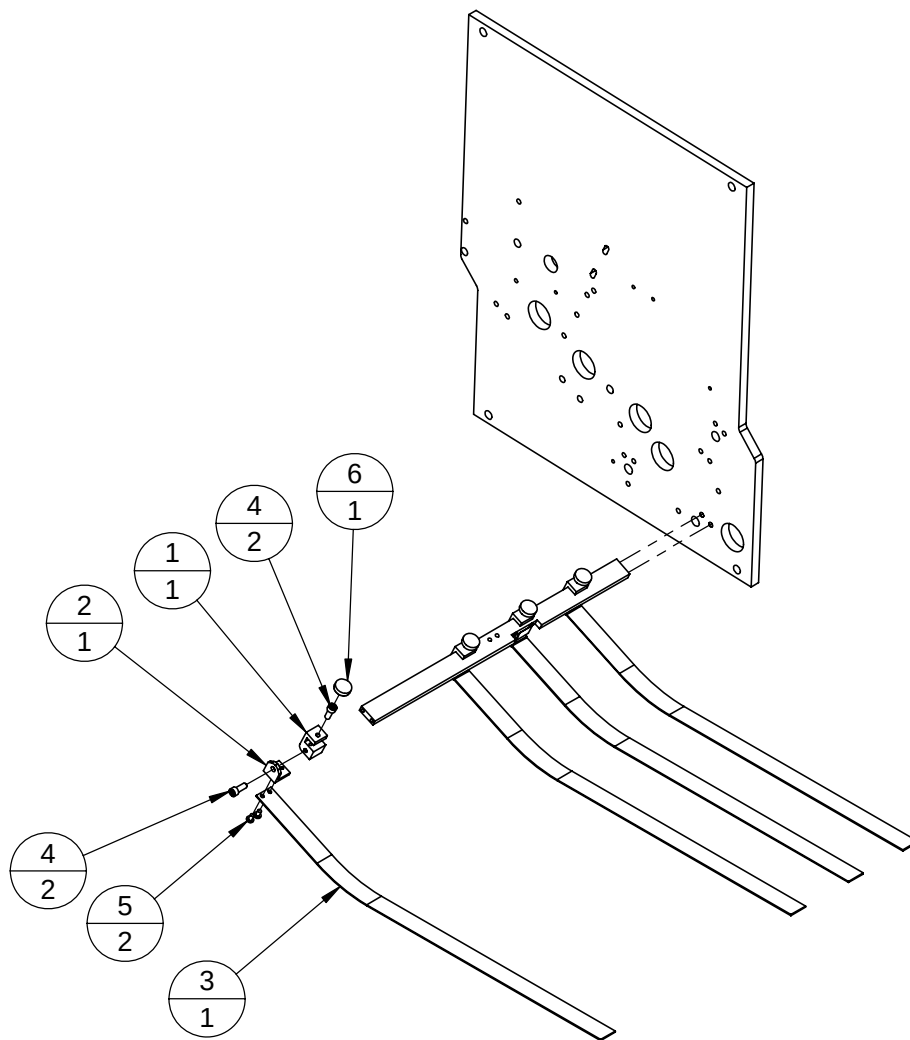
ASSY# 18020-153

FRICTION FEEDER (Fig. 3-8)
FEEDER DRAG STRAP ASSEMBLY (18020-073)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18009-014	1	BRACKET, DRAG STRAP MTG.
2	18009-029	1	BRACKET, DRAG STRAP PIVOT
3	18014-010	1	DRAG STRAP, FEEDER
4	-	2	SCREW, SKT HEAD, #10-24 X 1/2
5	-	2	SCREW, PAN HEAD, #6-32 X 1/4
6	99004-002	1	KNB, #10 SCREW

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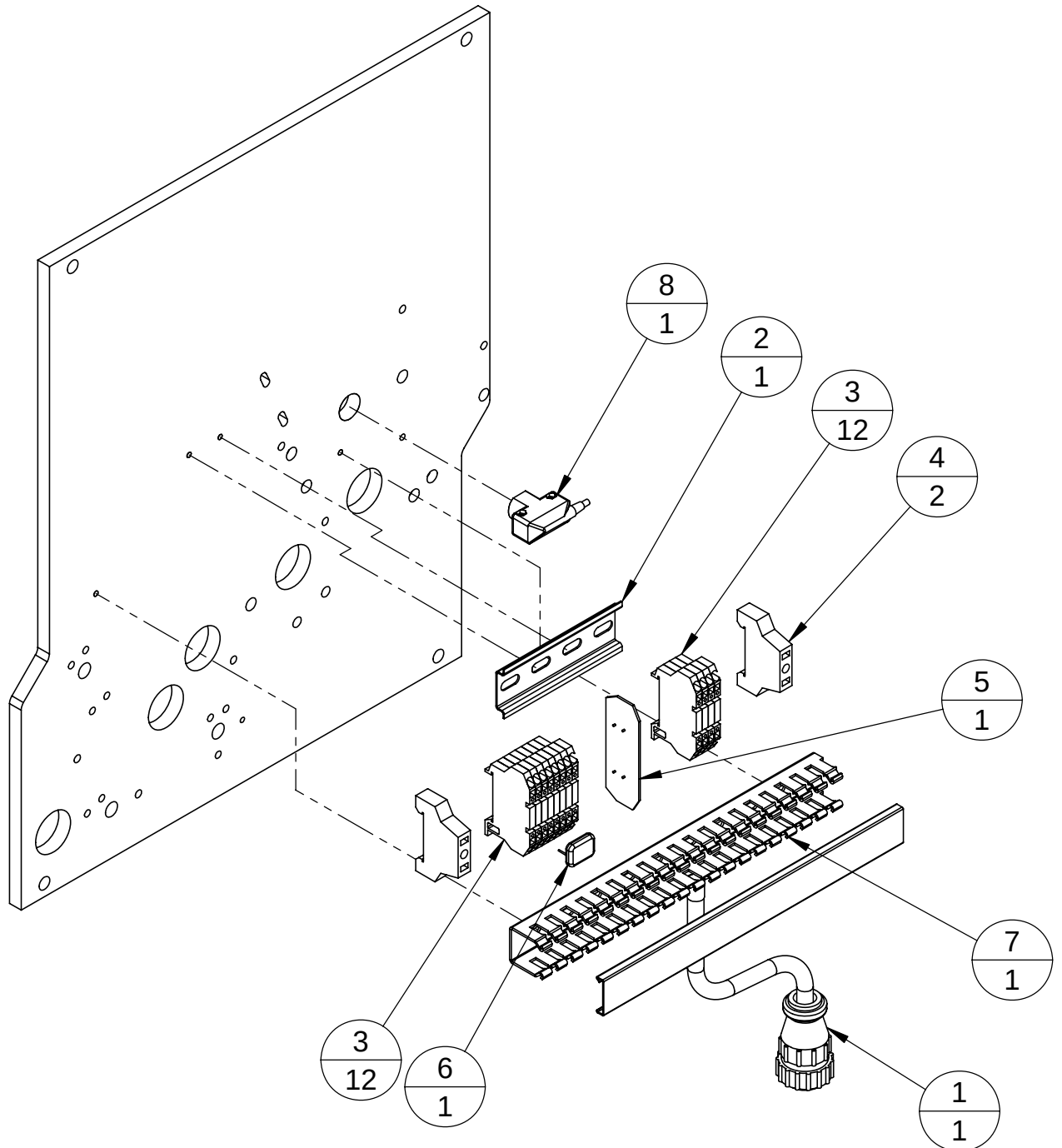


FRICITION FEEDER – ELECTRICAL (Fig. 3-9)
REAR FEEDER PLATE ASSEMBLY (18021-105)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18021-087	1	ASSEMBLY, PLUG
2	98001-022	4"	DIN RAIL, PHOENIX
3	98001-010	12	TERMINAL BLOCK, SPRING, ENTRELEC
4	98001-014	2	TERMINAL BLOCK, END STOP, ENTRELEC
5	98001-026	1	CIRCUIT DIVIDER
6	98020-029	1	CAPACITOR, 60HZ
7	98012-004	10"	DUCT, 1" X 1" WIREWAY W/ COVER
8	98009-051	1	SENSOR, RETRO REFLECTIVE

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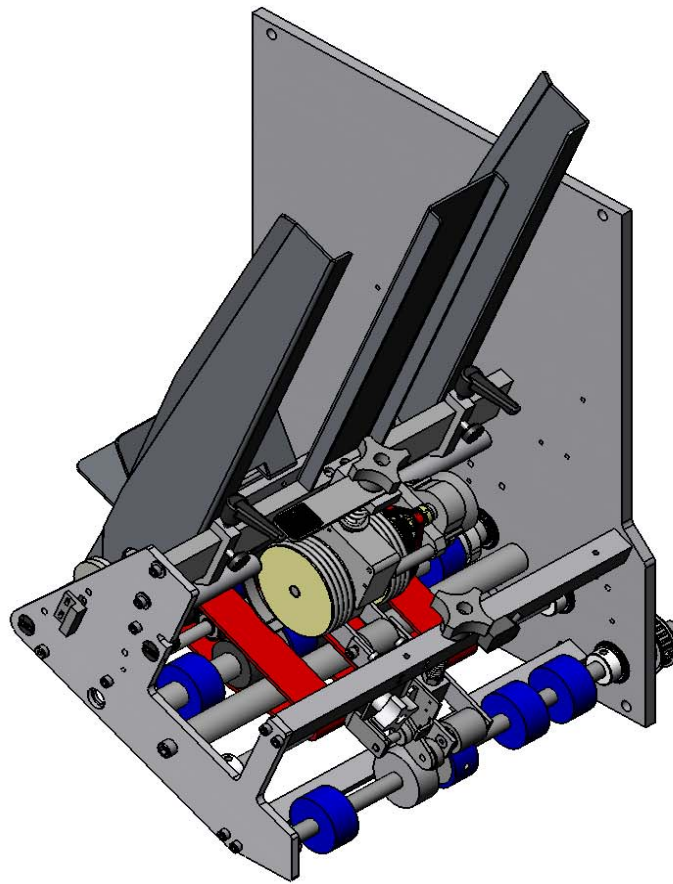
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FRICTION FEEDER

6X9



**FRICITION FEEDER ASSEMBLY (Fig. 4-1)
(18020-366)**

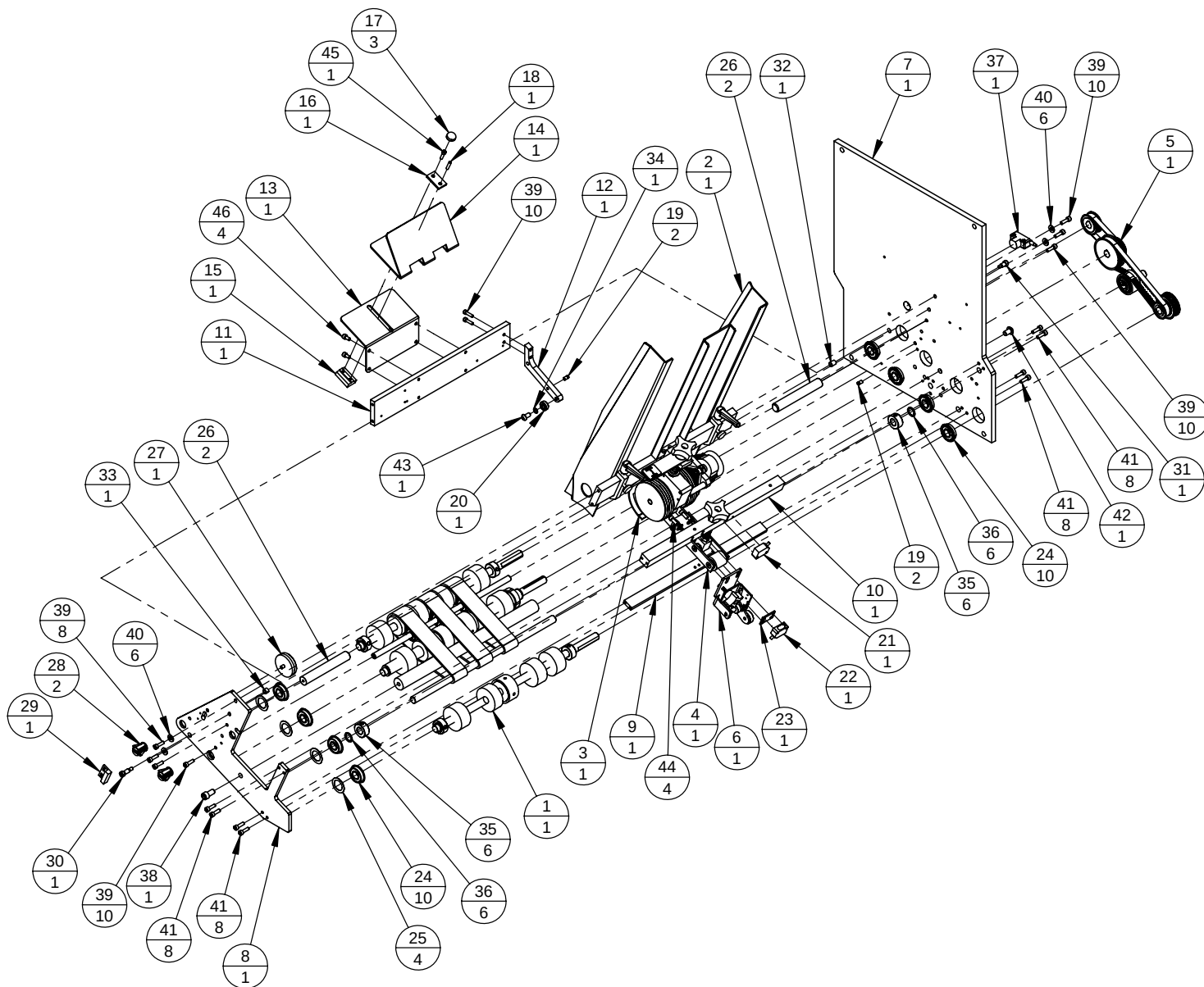
ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 4-2	1	ASSEMBLIES, FEEDER SHAFTS
2	SEE FIG. 4-6	1	ASSEMBLY, PAPER HOPPER (18020-260)
3	SEE FIG. 4-5	1	ASSEMBLY, SEPERATOR (18020-069)
4	SEE FIG. 4-6	1	ASSEMBLY, TONGUE (18020-070)
5	SEE FIG. 4-2	1	ASSEMBLY, FEEDER TIMING
6	SEE FIG. 4-7	1	ASSEMBLY, DOUBLE DETECT (18020-068)
7	18011-143	1	PLATE, FEEDER MTG. (6X9, ROTARY)
8	10000-017	1	SIDEFRAME, COLLATOR FEEDER (6X9)
9	18008-013	1	BAR, SENSOR / DRAG STRAP MTG.
10	18008-012	1	BAR, DOUBLE DETECT MTG.
11	18003-011	1	BAR, BACK SUPPORT (6X9)
12	18008-124	1	BAR, CAM FOLLOWER SUPPORT (6X9)
13	10005-005	1	SUPPORT, PAPER SLIDE (6X9)
14	10005-104	1	GUIDE, PAPER, REAR WEDGE
15	10007-003	1	NUT, PAPER SLIDE
16	10007-004	1	WASHER, PAPER SLIDE
17	99004-002	1	KNOB, #10 SCREW
18	99006-020	1	ROLL PIN, 5/32 X 3/4
19	99006-031	1	PIN, SPRING CLIP, GROOVED
20	99003-002	1	BEARING, 1/4 X 5/8 SEALED
21	98009-037	1	SENSOR, SENDER, THRU BEAM
22	98009-002	1	SENSOR, RECIEVER, THRU BEAM
23	18011-075	1	PLATE, ADAPTOR, LOWER SENSOR
24	99003-007	8	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
25	99036-003	4	SHIM, BEARING, 3/4 X 1-1/8 X .006
26	18008-093	2	BAR, SAFETY
27	98019-066	1	REFLECTOR

**FRICION FEEDER ASSEMBLY (Fig. 4-1)
(18020-366)**

ITEM	PART NO.	QTY.	DESCRIPTION
28	99039-062	2	MAGNETIC CATCH
29	98000-036	1	REED SWITCH
30	99033-006	1	SHOULDER BOLT, 1/4 X 1/4
31	99033-004	1	SHOULDER BOLT, 1/4 X 3/8
32	99003-073	1	BUSHING, SLEEVE, 1/4 X 5/16 X 3/8
33	99003-072	1	BUSHING, SLEEVE, 1/4 X 5/16 X 1/4
34	99003-034	1	WASHER, NYLON, 1/2 X 1/16
35	99017-004	2	COLLAR, 1/2" SHAFT
36	99003-032	2	WASHER, NYLON, 1/2 X 1/32
37	98009-051	1	SENSOR, P&F, RETRO REFLECTIVE
38	-	1	BOLT, SKT HEAD, 5/16-18 X 5/8
39	-	10	SCREW, SKT HEAD, #10-32 X 5/8
40	-	6	FLAT WASHER, #10
41	-	8	SCREW, SKT HEAD, #8-32 X 5/8
42	-	1	BOLT, BUTTON HEAD, 5/16-18 X 5/8
43	-	1	BOLT, BUTTON HEAD, 1/4-20 X 1/2
44	-	2	SCREW, SKT HEAD, #10-32 X 1/2
45	-	1	SCREW, SKT HEAD, #10-24 X 5/8
46	-	4	SCREW, SKT HEAD, #10-32 X 3/8
47	99005-012	1	SPRING, EXTENSION (NOT SHOWN) (ATTACHES TO ITEM #19)

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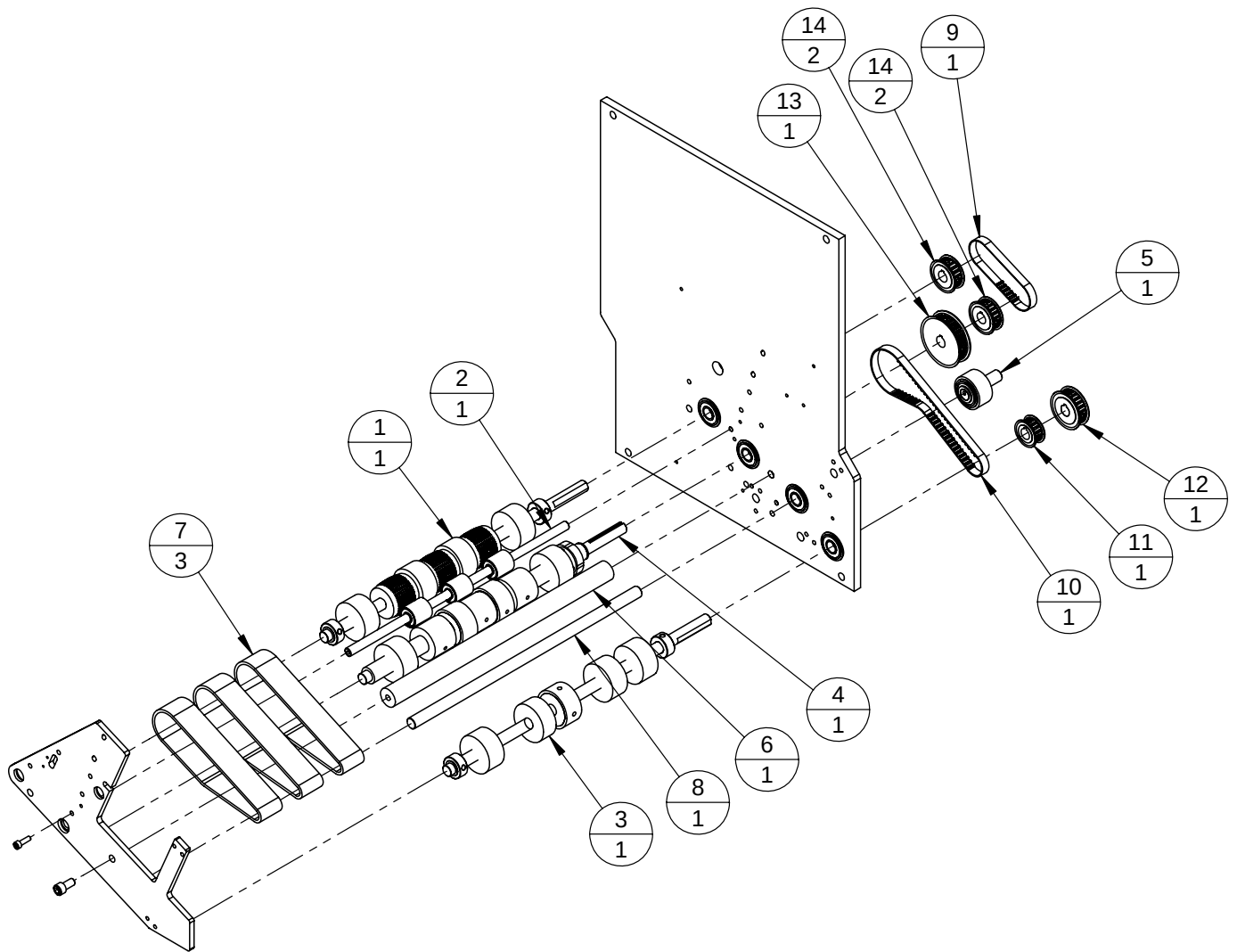


FRICITION FEEDER (Fig. 4-2)
FEEDER SHAFT / TIMING ASSEMBLIES

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 4-3	1	ASSEMBLY, CROWN DRIVE SHAFT (18020-109)
2	SEE FIG. 4-3	1	ASSEMBLY, IDLER SUPPORT SHAFT (18020-107)
3	SEE FIG. 4-4	1	ASSEMBLY, DOUBLE DETECT SHAFT (18020-106)
4	SEE FIG. 4-4	1	ASSEMBLY, NIP SHAFT (18020-279)
5	SEE FIG. 4-7	1	ASSEMBLY, TENSIONER (18020-153)
6	18004-003	1	SHAFT, MAIN SUPPORT
7	99000-004	3	BELT, RED GUM
8	18004-007	1	SHAFT, FRONT
9	99000-001	1	BELT, TIMNG, 90XL037
10	99000-027	1	BELT, TIMING, 160XL037
11	99002-032	1	PULLEY, TIMING, 16XL037, 1/2B W/ KEYWAY
	-	2	SET SCREW, #8-32 X 1/8
12	99002-031	1	PULLEY, TIMING, 24XL037, 1/2B W/ KEYWAY
	-	2	SET SCREW, #10-32 X 1/4
13	99002-017	1	PULLEY, TIMING, 32XL037, 1/2 B W/ KEYWAY
	-	2	SET SCREW, #10-32 X 3/8
14	99002-054	2	PULLEY, TIMING, 20XL037, 1/2B
	-	4	SET SCREW, #10-32 X 1/4

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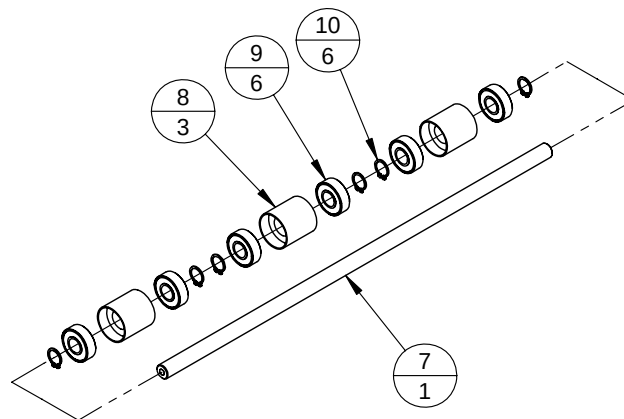
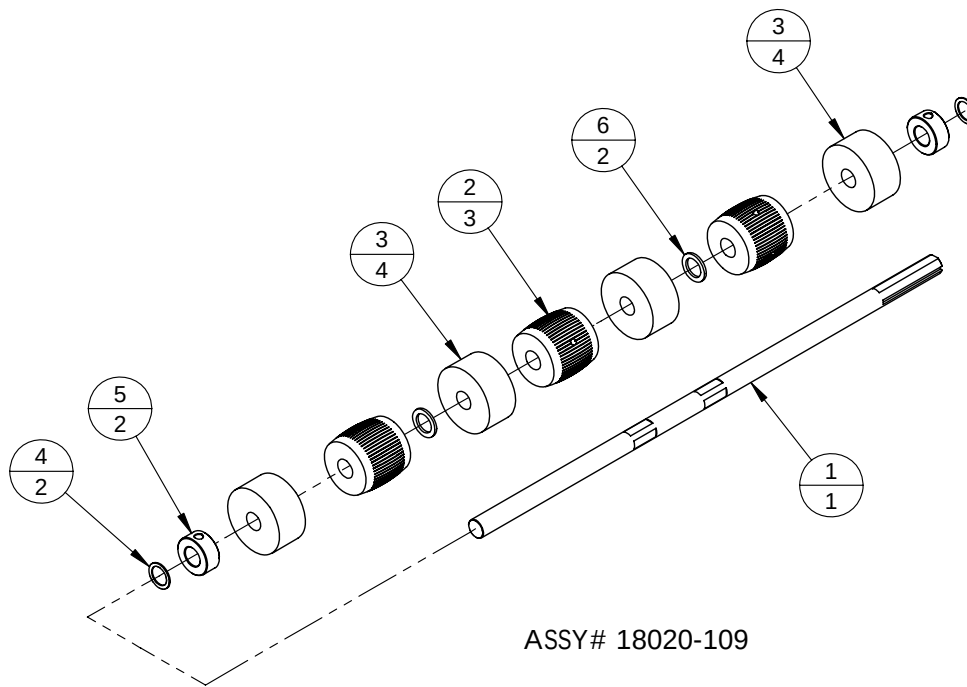


**FRICITION FEEDER (Fig. 4-3)
 CROWN DRIVE / IDLER SUPPORT SHAFT ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-109	1	ASSEMBLY, CROWNED DRIVE SHAFT
1	18004-058	1	SHAFT, ELEVATOR BELT DRIVE
2	10006-018	3	PULLEY, CROWNED DRIVE
	-	6	SET SCREW, #10-32 X 1/4
3	10006-007	4	ROLLER, FEEDER, 1/2 B
4	99003-032	2	WASHER, NYLON, 1/2 X 1/32
5	99017-004	2	COLLAR, 1/2" SHAFT
6	99003-018	2	WASHER, NYLON, 1/2 X 1/16
	18020-107	1	ASSEMBLY, IDLER SUPPORT SHAFT
7	18004-004	1	SHAFT, IDLER SUPPORT
8	10006-012	3	ROLLER, IDLER
9	99003-008	6	BEARING, 3/8 X 7/8 SEALED
10	99022-004	6	SNAP RING, 3/8

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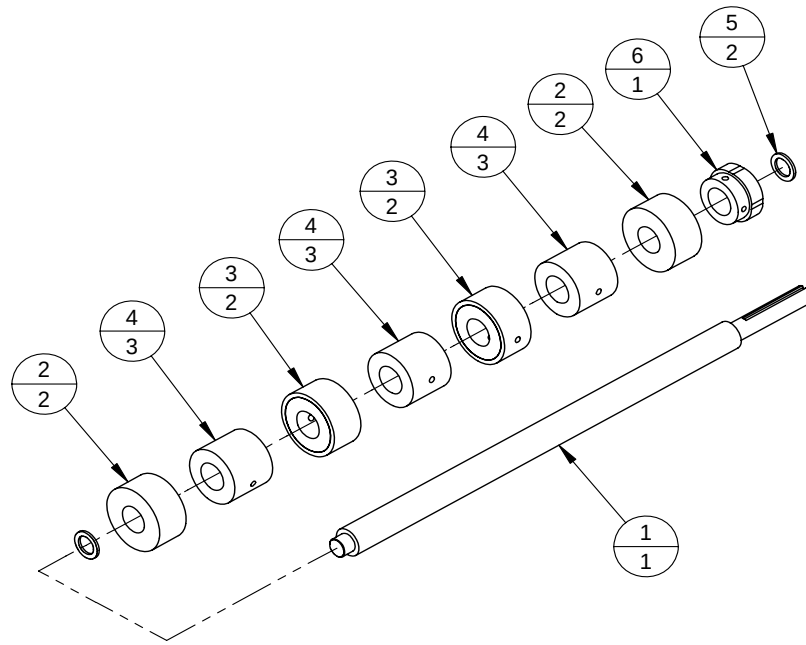


FRICITION FEEDERS (Fig. 4-4)
NIP & DBL DETECT SHAFT ASSEMBLIES

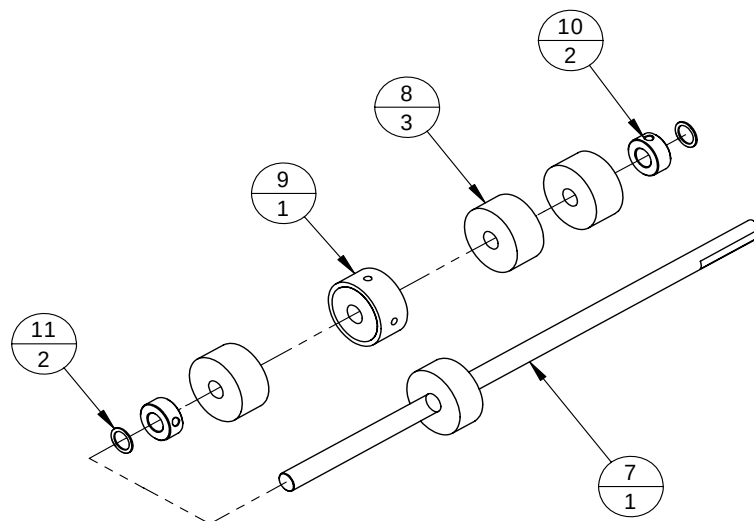
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-279	1	ASSEMBLY, NIP SHAFT
1	18004-091	1	SHAFT, MAIN DRIVE (NIP)
2	10006-069	2	ROLLER, FEEDER, 3/4" B
3	10006-070	2	ROLLER, NIP, 3/4" B
	-	4	SET SCREW, #10-32 X 1/4
4	10006-071	3	PULLEY, MATE, 3/4" B
	-	6	SET SCREW, #10-32 X 1/4
5	99003-018	2	WASHER, NYLON, 1/2 X 1/16
6	18016-016	1	CAM, VIBRATING PAPER SLIDE
	18020-106	1	ASSEMBLY, DOUBLE DETECT SHAFT
7	18004-064	1	SHAFT, DBL DETECT
8	10006-007	3	ROLLER, FEEDER, 1/2" B
9	10006-013	1	ROLLER, NIP, 1/2" B
	-	2	SET SCREW, #10-32 X 1/4
10	99017-013	2	COLLAR, 1/2" SHAFT
11	99003-032	2	WASHER, NYLON, 1/2 X 1/32

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ASSY# 18020-279



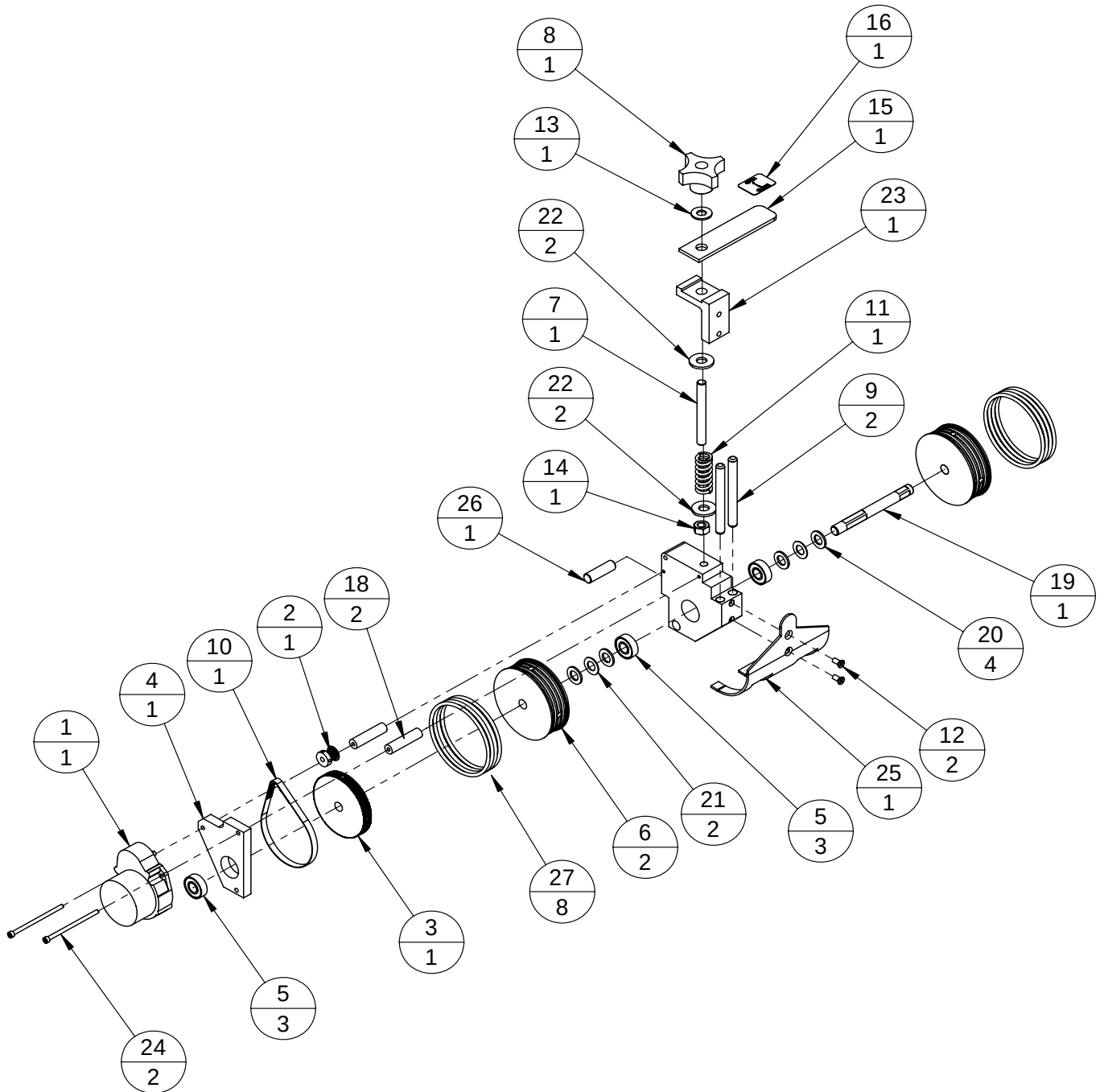
ASSY# 18020-106

**FRICITION FEEDER (Fig. 4-5)
SEPERATOR ASSEMBLY (18020-069)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	99001-018	1	MOTOR, SEPERATOR, 24VAC
2	99002-002	1	PULLEY, TIMING, 16MXL025, 3/16 B
	-	2	SET SCREW, #6-32 X 1/4
3	99002-001	1	PULLEY, TIMING, 100MXL025, 3/8 B
	-	2	SET SCREW, #10-24 X 1/2
4	10011-001	1	PLATE, SEPERATOR MOTOR MTG.
5	99003-001	3	BEARING, SEALED, 3/8 X 7/8
6	10006-001	2	WHEEL, SEPERATOR, 3" DIAM
	-	2	SET SCREW, #10-24 X 3/8
7	10004-028	1	STUD, SEPERATOR ADJ.
8	99004-001	1	KNOB, 5/16-24 FEMALE
9	99006-002	2	PIN, DOWEL, 5/16 X 3
10	99000-006	1	BELT, TIMING, 115MXL025
11	99005-045	1	SPRING, SEPERATOR
12	-	2	SCREW, FLAT HEAD, #6-32 X 3/8
13	99003-015	1	WASHER, NYLON, 5/16 X 1/16
14	-	1	HEX NUT, 5/16-24
15	10008-024	1	BAR, SEPERATOR RELEASE
16	18017-008	1	LABEL, SEPERATOR ADJ.
17	10007-001	1	BLOCK, SEPERATOR
18	10012-002	2	STANDOFF, SEPERATOR MOTOR
19	10004-001	1	SHAFT, SEPERATOR
20	99003-017	4	WASHER, NYLON, 3/8 X 1/16
21	99003-016	2	WASHER, NYLON, 1/2 X 1/32
22	-	2	WASHER, FLAT, 5/16
23	10007-010	1	BLOCK, SEPERATOR ADJ.
24	-	2	SCREW, SKT HEAD, #6-32 X 2-1/2
25	10005-003	1	SHROUD, SEPERATOR
26	99006-001	1	PIN, DOWEL, 3/8 X 1-1/4
27	10014-002	8	O-RING, SEPERATOR, 3"

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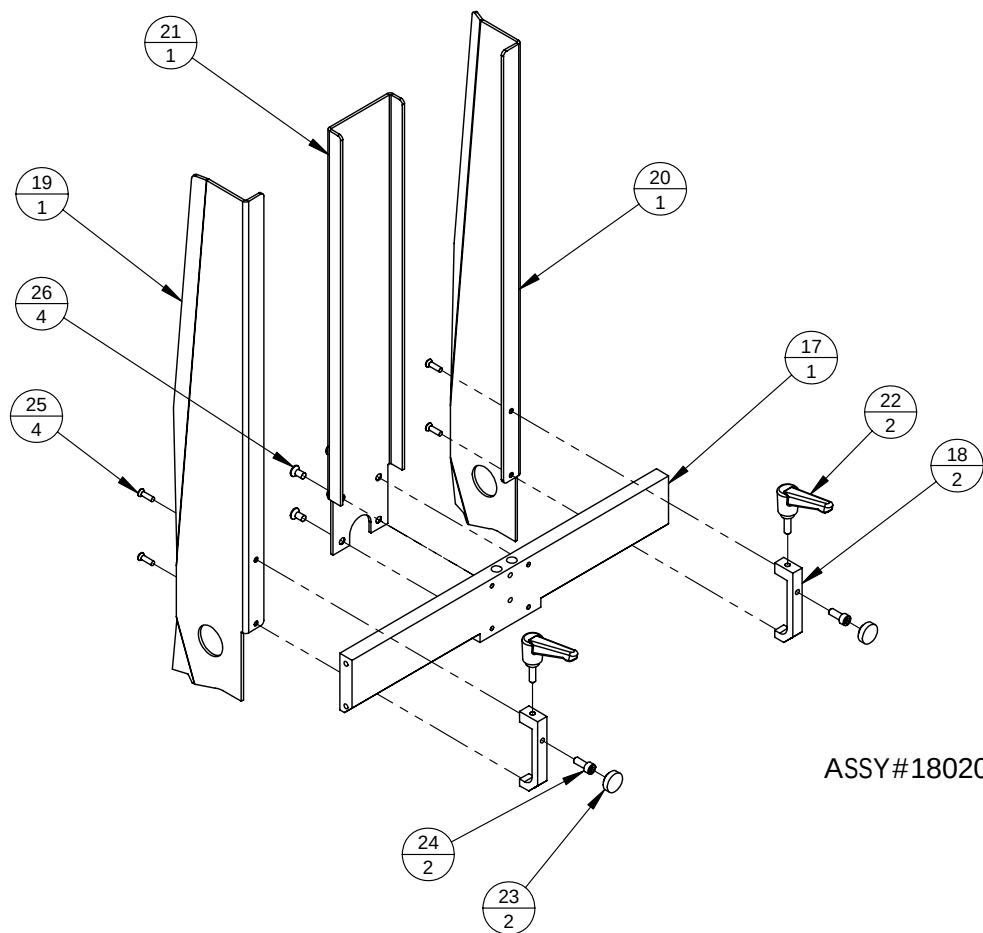


**FRICTION FEEDER (Fig. 4-6)
 PAPER HOPPER / TONGUE ASSEMBLIES**

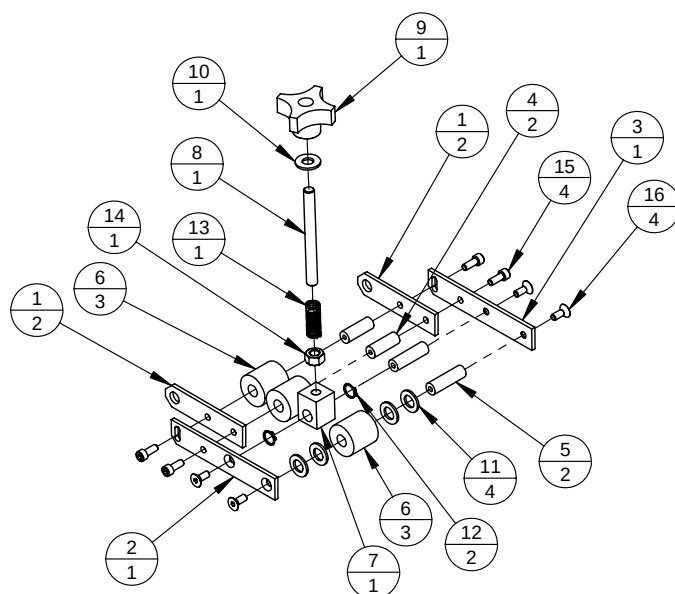
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-070	1	ASSEMBLY, TONGUE (6X9)
1	10008-015	2	PLATE, TONGUE, REAR
2	10008-016	1	PLATE, TONGUE, RH FRONT
3	10008-017	1	PLATE, TONGUE, LH FRONT
4	10012-003	2	SPACER, TONGUE
5	10004-054	2	SHAFT, TONGUE
6	10006-016	3	ROLLER, TONGUE
7	10007-012	1	BLOCK, TONGUE ADJ.
8	10004-055	1	STUD, TONGUE ADJ.
9	99004-001	1	KNOB, 5/16-24 FEMALE
10	99003-015	1	WASHER, NYLON, 5/16 X 1/16
11	99003-017	4	WASHER, NYLON, 3/8 X 1/16
12	99022-003	2	SNAP RING, 3/8
13	99005-006	1	SPRING, SEPERATOR ADJ.
14	-	1	NUT HEX, 5/16-24
15	-	4	SCREW, SKT HEAD, #10-24 X 1/2
16	-	4	SCREW, FLAT HEAD, #10-24 X 1/2
	18020-260	1	ASSEMBLY, FEEDER HOPPER
17	18003-010	1	CROSSBAR, SEPERATOR
18	10009-046	2	BRACKET, SIDE GUIDE MTG.
19	10005-009	1	SIDE GUIDE, RH
20	10005-008	1	SIDE GUIDE, LH
21	10005-002	1	GUIDE FRONT PAPER
22	99004-003	2	HANDLE, RATCHET, #10-24 X 5/8
23	99004-002	2	KNOB, #10 SCREW
24	-	2	SCREW, SKT HEAD, #10-32 X 1/2
25	-	4	SCREW, FLAT HEAD, #6-32 X 1/2
26	-	4	SCREW, FLAT HEAD, #10-24 X 3/8

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ASSY#18020-260



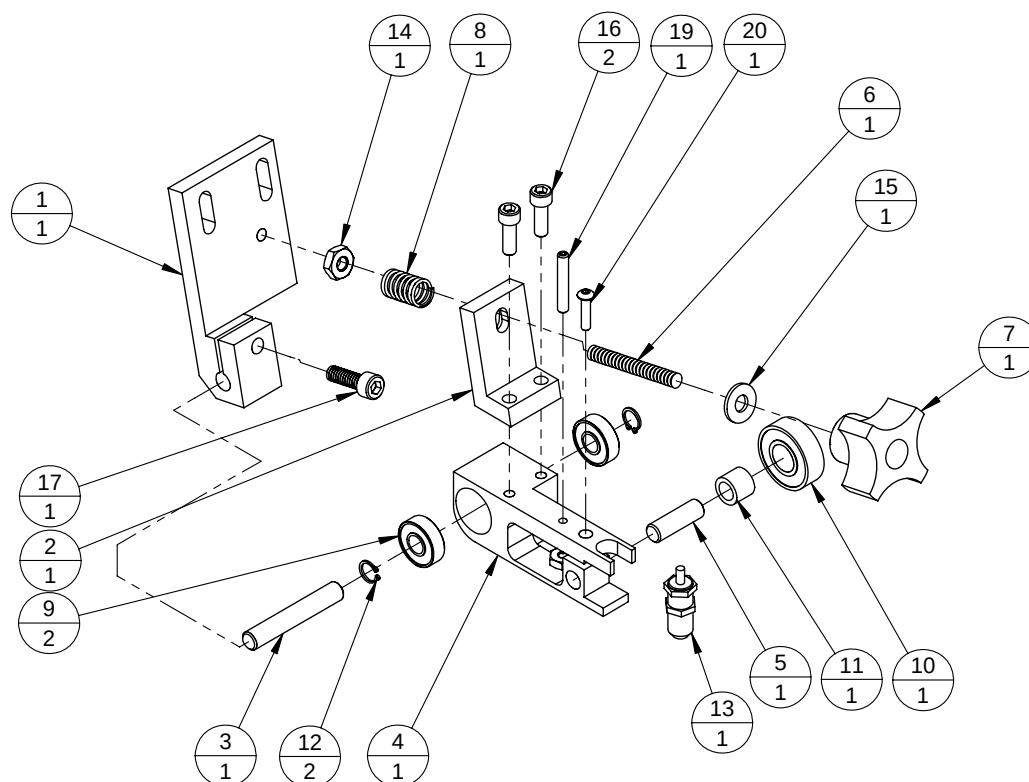
ASSY#18020-070

**FRICITION FEEDER (Fig. 4-7)
DOUBLE DETECT / TENSIONER ASSEMBLIES**

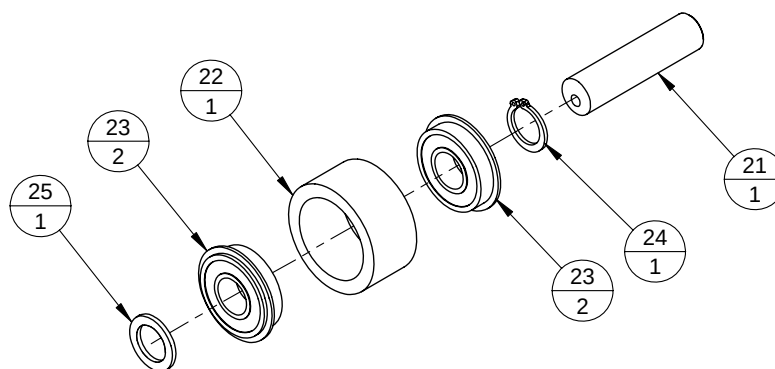
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-068	1	ASSEMBLY, DOUBLE DETECT
1	18009-001	1	BRACKET, DBL DETECT MTG.
2	10009-013	1	BRACKET, PIVOT, TUNING FORK
3	10004-052	1	SHAFT, DBL DETECT PIVOT
4	10009-012	1	BRACKET, TUNING FORK
5	10004-053	1	SHAFT, DBL DETECT
6	99032-003	1	STUD, #10-32 X 1-1/2
7	99004-005	1	KNOB, FEMALE, #10-32
8	99005-007	1	SPRING, GATE ADJ.
9	99003-002	2	BEARING, 1/4 X 5/8 SEALED
10	99003-001	1	BEARING, 3/8 X 7/8 SEALED
11	99003-005	1	BUSHING, SLEEVE, 1/4 X 3/8 X 5/16
12	99022-001	2	SNAP RING, ¼
13	98009-004	1	SENSOR, DBL DETECT SWITCH
14	-	1	NUT, HEX, #10-32
15	-	1	FLAT WASHER, #10
16	-	2	SCREW, SKT HEAD, #8-32 X 1/2
17	-	1	SCREW, SKT HEAD, #10-24 X 5/8
18	-	1	NUT, HEX, #6-32
19	-	1	SCREW, SET, #6-32 X 7/8
20	-	1	SCREW, BUTTON HEAD, #4-40 X 1/2
	18020-153	1	ASSEMBLY, TENSIONER
21	18004-031	1	SHAFT, STUB IDLER
22	18006-011	1	PULLEY, FLAT IDLER, 1-1/2" OD X 3/4" W
23	99003-007	2	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
24	99003-018	1	WASHER, NYLON, 1/2 X 1/16
25	99022-004	1	SNAP RING, 1/2

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ASSY# 18020-068



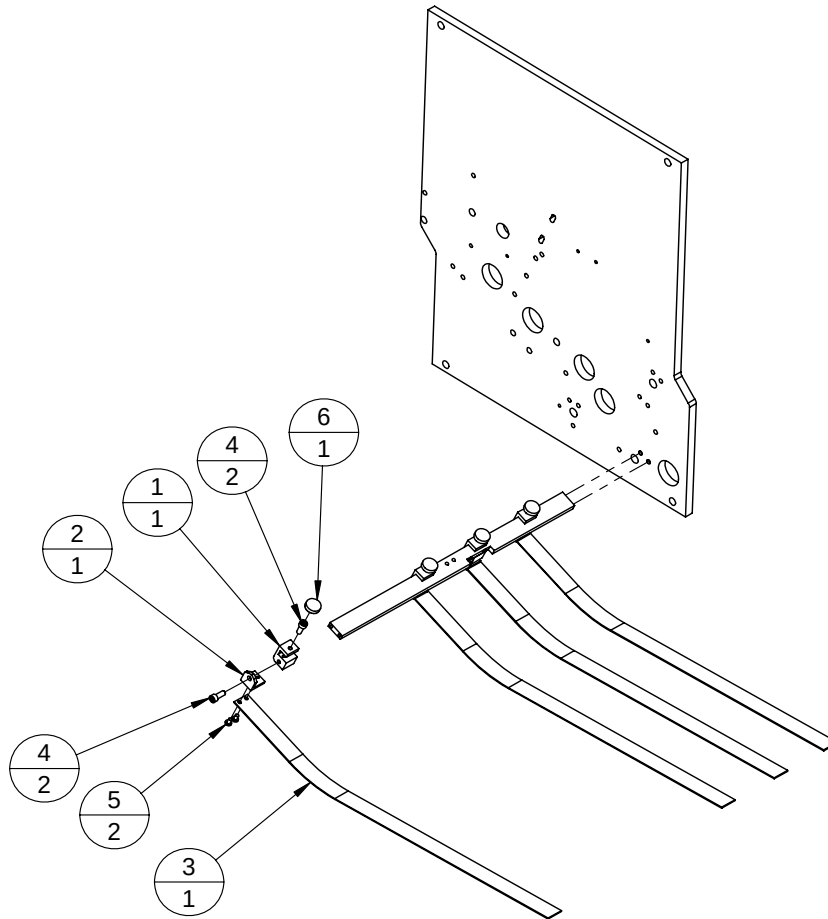
ASSY# 18020-153

FRICTION FEEDER (Fig. 4-8)
FEEDER DRAG STRAP ASSEMBLY (18020-073)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18009-014	1	BRACKET, DRAG STRAP MTG.
2	18009-029	1	BRACKET, DRAG STRAP PIVOT
3	18014-010	1	DRAG STRAP, FEEDER
4	-	2	SCREW, SKT HEAD, #10-24 X 1/2
5	-	2	SCREW, PAN HEAD, #6-32 X 1/4
6	99004-002	1	KNB, #10 SCREW

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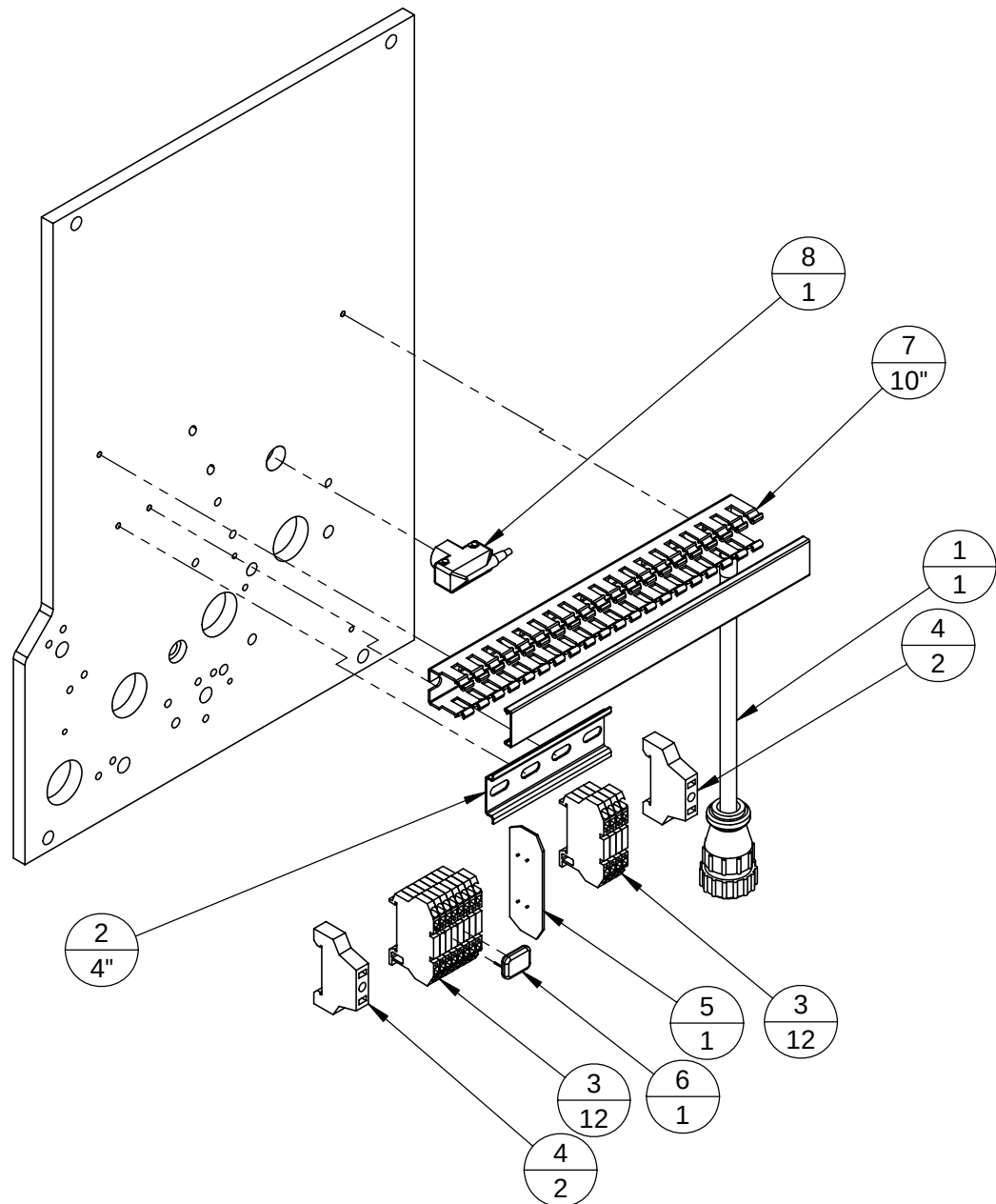


**FRICITION FEEDER – ELECTRICAL (Fig. 4-9)
 REAR FEEDER PLATE ASSEMBLY (18021-105)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18021-087	1	ASSEMBLY, PLUG
2	98001-022	4"	DIN RAIL, PHOENIX
3	98001-010	12	TERMINAL BLOCK, SPRING, ENTRELEC
4	98001-014	2	TERMINAL BLOCK, END STOP, ENTRELEC
5	98001-026	1	CIRCUIT DIVIDER
6	98020-029	1	CAPACITOR, 60HZ
7	98012-004	10"	DUCT, 1" X 1" WIREWAY W/ COVER
8	98009-051	1	SENSOR, RETRO REFLECTIVE

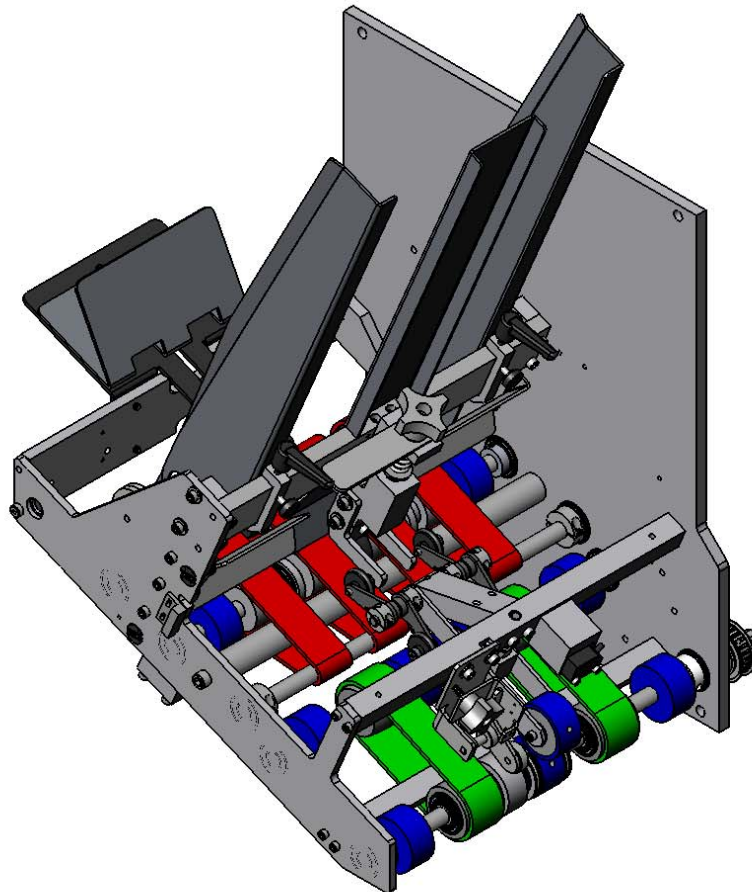
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THIN MATERIAL FEEDER 10X13



**THIN MAT'L FEEDER ASSEMBLY (Fig. 5-1)
(18020-376)**

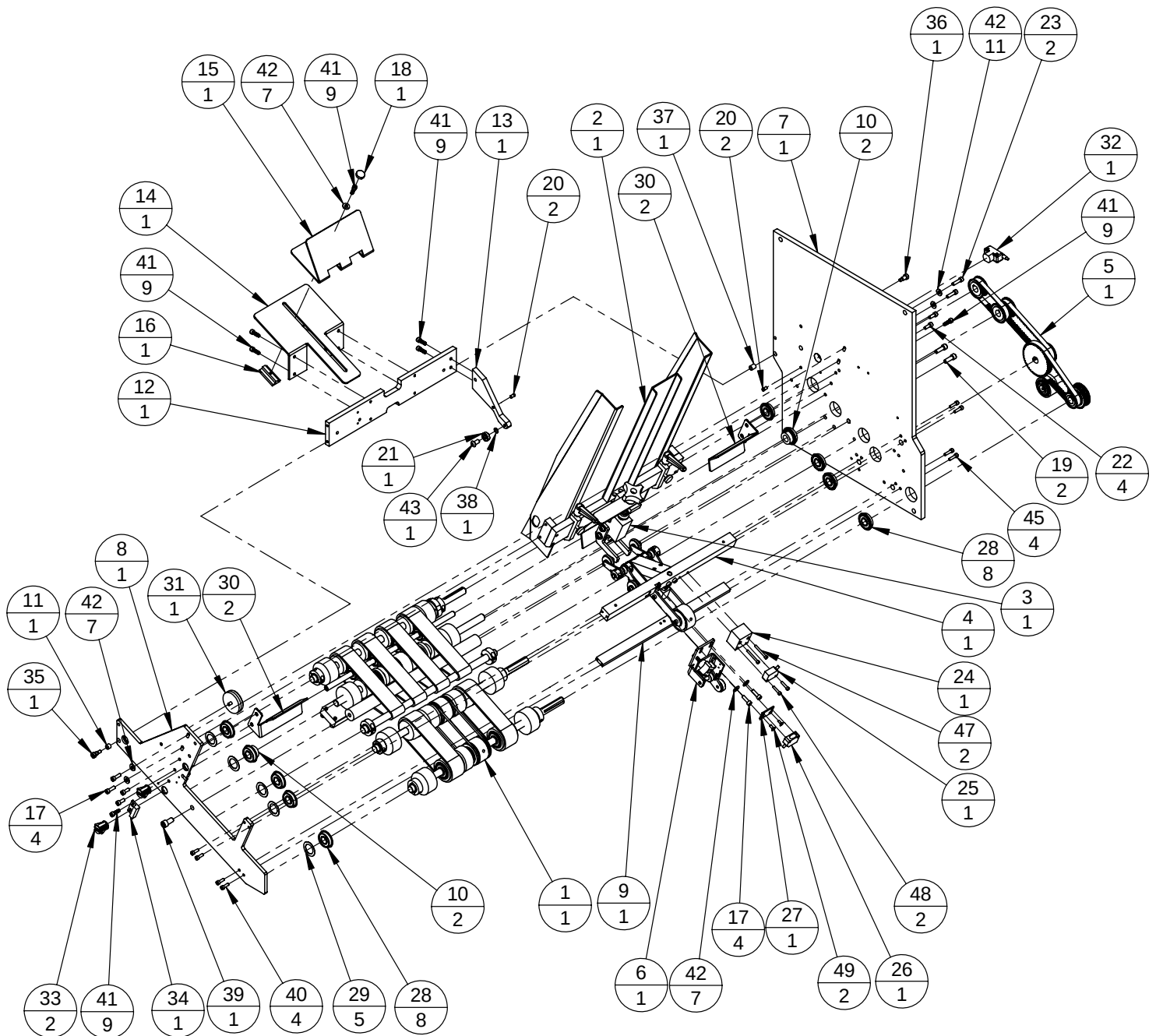
ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 5-2	1	ASSEMBLIES, FEEDER SHAFTS
2	SEE FIG. 5-7	1	ASSEMBLY, PAPER HOPPER (18020-370)
3	SEE FIG. 5-5	1	ASSEMBLY, SEPERATOR (18020-335)
4	SEE FIG. 5-6	1	ASSEMBLY, TRANSPORT (18020-336)
5	SEE FIG. 5-2	1	ASSEMBLY, FEEDER TIMING
6	SEE FIG. 5-8	1	ASSEMBLY, DOUBLE DETECT (18020-068)
7	18011-095	1	PLATE, FEEDER MTG.
8	10000-018	1	SIDEFRAME, COLLATOR FEEDER
9	18008-013	1	BAR, SENSOR / DRAG STRAP MTG.
10	99003-093	2	BEARING, 1/2 X 1-1/8, SEALED W/ COLLAR
11	99003-072	1	BUSHING, 1/4 X 5/16 X 1/4
12	10008-019	1	BAR, BACK SUPPORT
13	18008-123	1	BAR, CAM FOLLOWER SUPPORT
14	18009-106	1	BRACKET, PAPER SLIDE SUPPORT
15	10005-104	1	GUIDE, PAPER, REAR WEDGE
16	18007-149	1	NUT, PAPER SLIDE
17	-	4	SCREW, SKT HEAD, #10-32 X 5/8
18	99004-002	1	KNOB, #10 SCREW
19	-	2	BOLT, SKT HEAD, 1/4-20 X 3/4
20	99006-031	1	PIN, SPRING CLIP, GROOVED
21	99003-002	1	BEARING, 1/4 X 5/8 SEALED
22	-	4	SCREW, SKT HEAD, #10-32 X 1/2
23	-	2	SCREW, SKT HEAD, #10-32 X 3/4
24	18009-024	1	BRACKET, UPPER SENSOR MTG.
25	98009-037	1	SENSOR, SENDER, THRU BEAM
26	98009-002	1	SENSOR, RECIEVER, THRU BEAM
27	18011-075	1	PLATE, ADAPTOR, LOWER SENSOR

**THIN MAT'L FEEDER ASSEMBLY (Fig. 5-1)
 (18020-376)**

ITEM	PART NO.	QTY.	DESCRIPTION
28	99003-007	8	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
29	99036-003	5	SHIM, BEARING, 3/4 X 1-1/8 X .006
30	18013-217	2	COVER, HOPPER SHIELD
31	98019-066	1	REFLECTOR
32	98009-051	1	SENSOR, P&F, RETRO REFLECTIVE
33	99039-062	2	MAGNETIC CATCH
34	98000-036	1	REED SWITCH
35	99033-006	1	SHOULDER BOLT, 1/4 X 1/4
36	99033-004	1	SHOULDER BOLT, 1/4 X 3/8
37	99003-073	1	BUSHING, SLEEVE, 1/4 X 5/16 X 3/8
38	99003-034	1	WASHER, NYLON, 1/2 X 1/16
39	-	1	BOLT, SKT HEAD, 5/16-18 X 5/8
40	-	4	SCREW, SKT HEAD, #8-32 X 5/8
41	-	9	SCREW, SKT HEAD, #10-24 X 5/8
42	-	7	FLAT WASHER, #10
43	-	1	SCREW, BUTTON HEAD, 1/4-20 X 1/2
45	-	4	SCREW, SKT HEAD, #8-32 X 5/8
47	-	2	SCREW, SKT HEAD, #6-32 X 1-1/8
48	-	2	SCREW, SKT HEAD, #6-32 X 5/8
49	-	2	SCREW, FLAT HEAD, #6-32 X 3/8
50	99005-012	1	SPRING, EXTENSION (NOT SHOWN) (ATTACHES TO ITEM #20)

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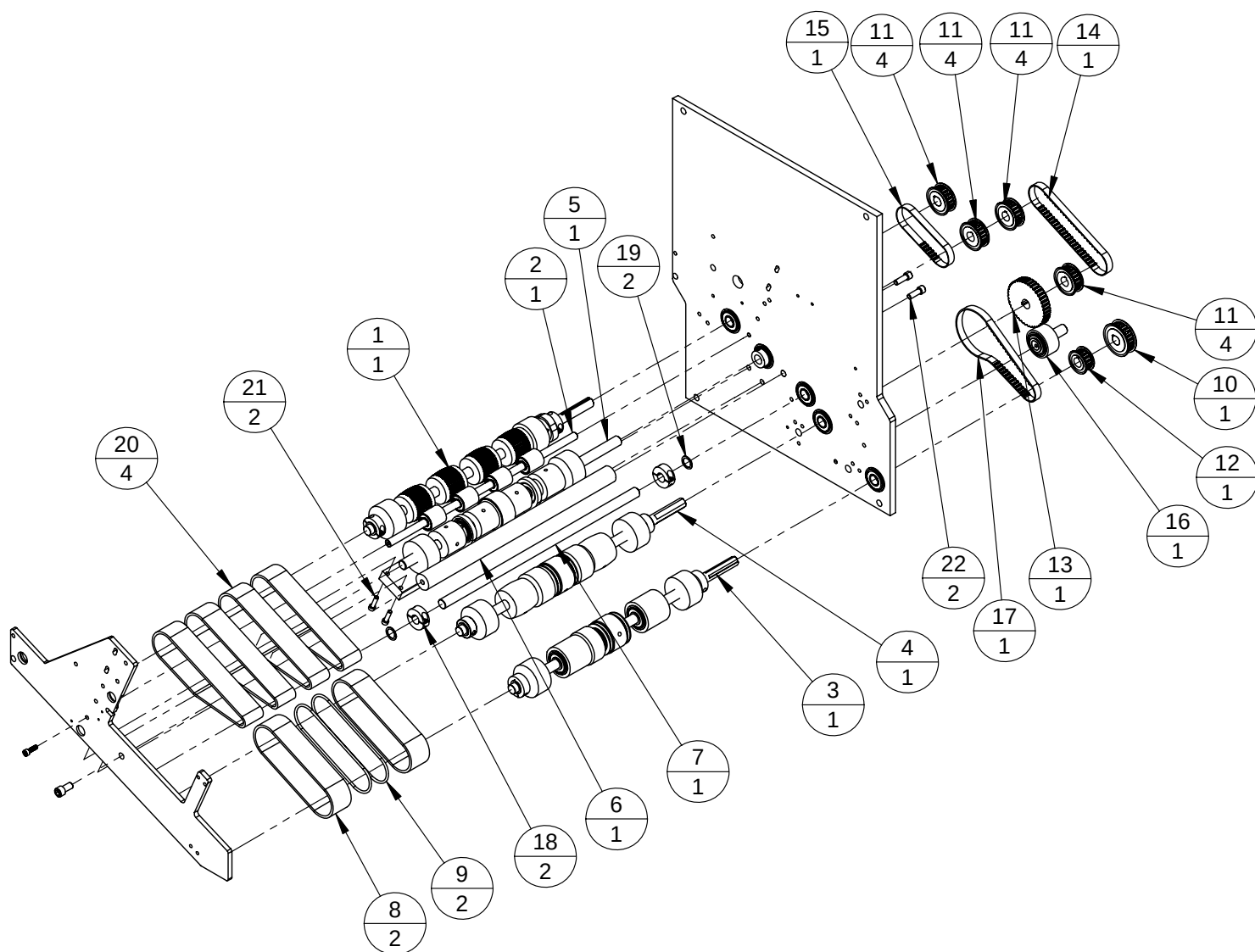
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THIN MAT'L FEEDER (Fig. 5-2)
FEEDER SHAFT / TIMING ASSEMBLIES

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 5-3	1	ASSEMBLY, CROWN ROLLER SHAFT (18020-329)
2	SEE FIG. 5-3	1	ASSEMBLY, IDLER SUPPORT SHAFT (18020-328)
3	SEE FIG. 5-4	1	ASSEMBLY, DOUBLE DETECT SHAFT (18020-110)
4	SEE FIG. 5-4	1	ASSEMBLY, ACCELERATOR SHAFT (18020-111)
5	SEE FIG. 5-4	1	ASSEMBLY, SEPERATOR SHAFT (18020-337)
6	18004-003	1	SHAFT, MAIN SUPPORT
7	18004-007	1	SHAFT, FRONT
8	99000-042	2	BELT, RED GUM, ACCELERATOR
9	18014-007	2	O-RING, ACCELERATOR
10	99002-031	1	PULLEY, TIMING, 24XL037, 1/2B
11	99002-054	4	PULLEY, TIMING, 20XL037, 1/2B
12	99002-032	1	PULLEY, TIMING, 16XL037, 1/2B
13	99002-016	1	PULLEY, TIMING, 40XL037, 1/2B NO FLANGES
14	99000-033	1	BELT, TIMING, 130XL037
15	99000-001	1	BELT, TIMNG, 90XL037
16	SEE FIG. 5-8	1	ASSEMBLY, TENSIONER (18020-153)
17	99000-032	1	BELT, TIMNG, 138XL037
18	99017-004	2	COLLAR, 1/2 SHAFT
19	99003-032	2	WASHER, NYLON, 1/2 X 1/32
20	99000-004	4	BELT, RED GUM
21	-	2	SCREW, SKT HEAD, #10-32 X 3/4
22	-	2	BOLT, SKT HEAD, 1/4-20 X 3/4

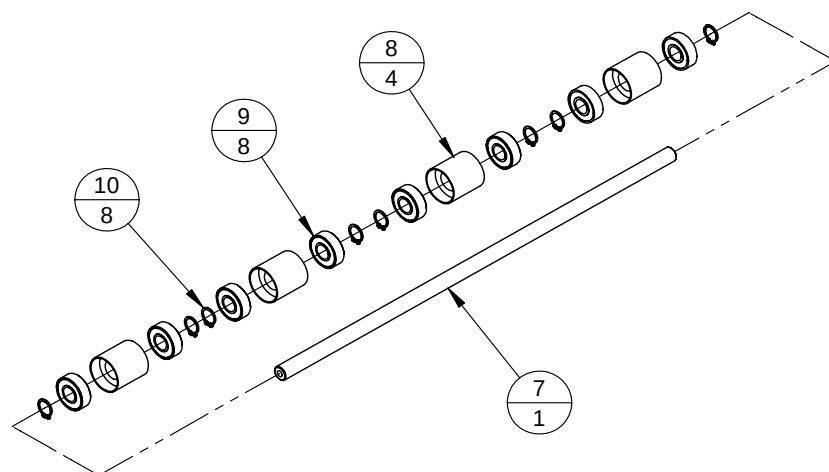
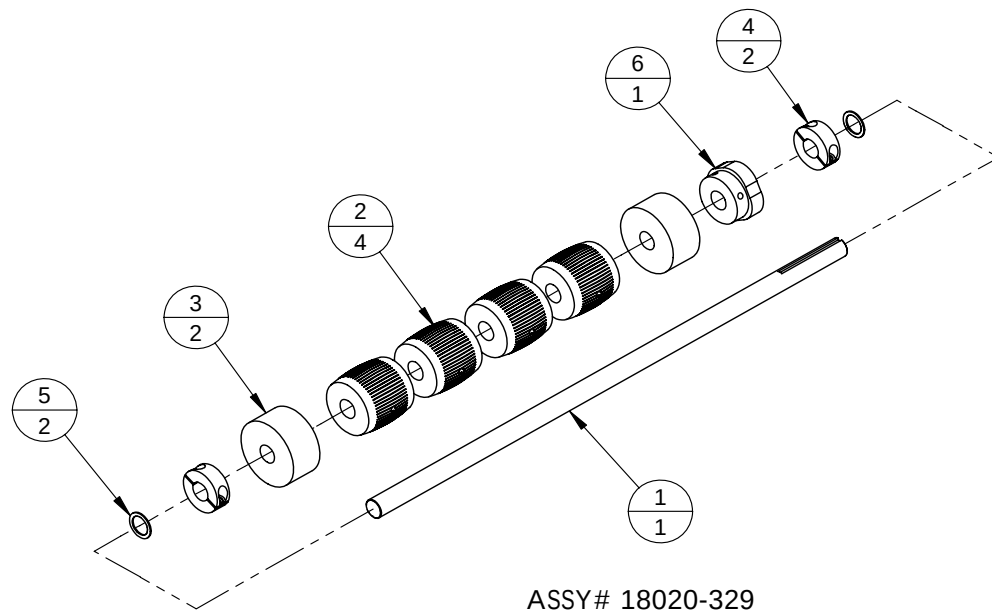
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THIN MAT'L FEEDER (Fig. 5-3)
IDLER SUPPORT / CROWN ROLLER SHAFT ASSEMBLIES

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-329	1	ASSEMBLY, CROWN ROLLER SHAFT
1	18004-006	1	SHAFT, MAIN
2	10006-018	4	PULLEY, CROWNED
	-	8	SET SCREW, #10-32 X 1/4
3	10006-007	2	ROLLER FEEDER, 1/2 B
4	99017-022	2	COLLAR, TWO-PC SPLIT, 1/2 B
5	99003-032	2	WASHER, NYLON, 1/2 X 1/32
6	18016-015	1	CAM, VIBRATING BACKSTOP
	-	2	SET SCREW, #10-24 X 1/4
	18020-328	1	ASSEMBLY, IDLER SUPPORT SHAFT
7	18004-004	1	SHAFT, IDLER SUPPORT
8	10006-012	4	ROLLER, IDLER
9	99003-008	8	BEARING, 3/8 X 7/8 SEALED
10	99022-004	8	SNAP RING, 3/8

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**THIN MAT'L FEEDER (Fig. 5-4)
SEPERATOR / DBL DETECT / ACCELERATOR SHAFT
ASSEMBLIES**

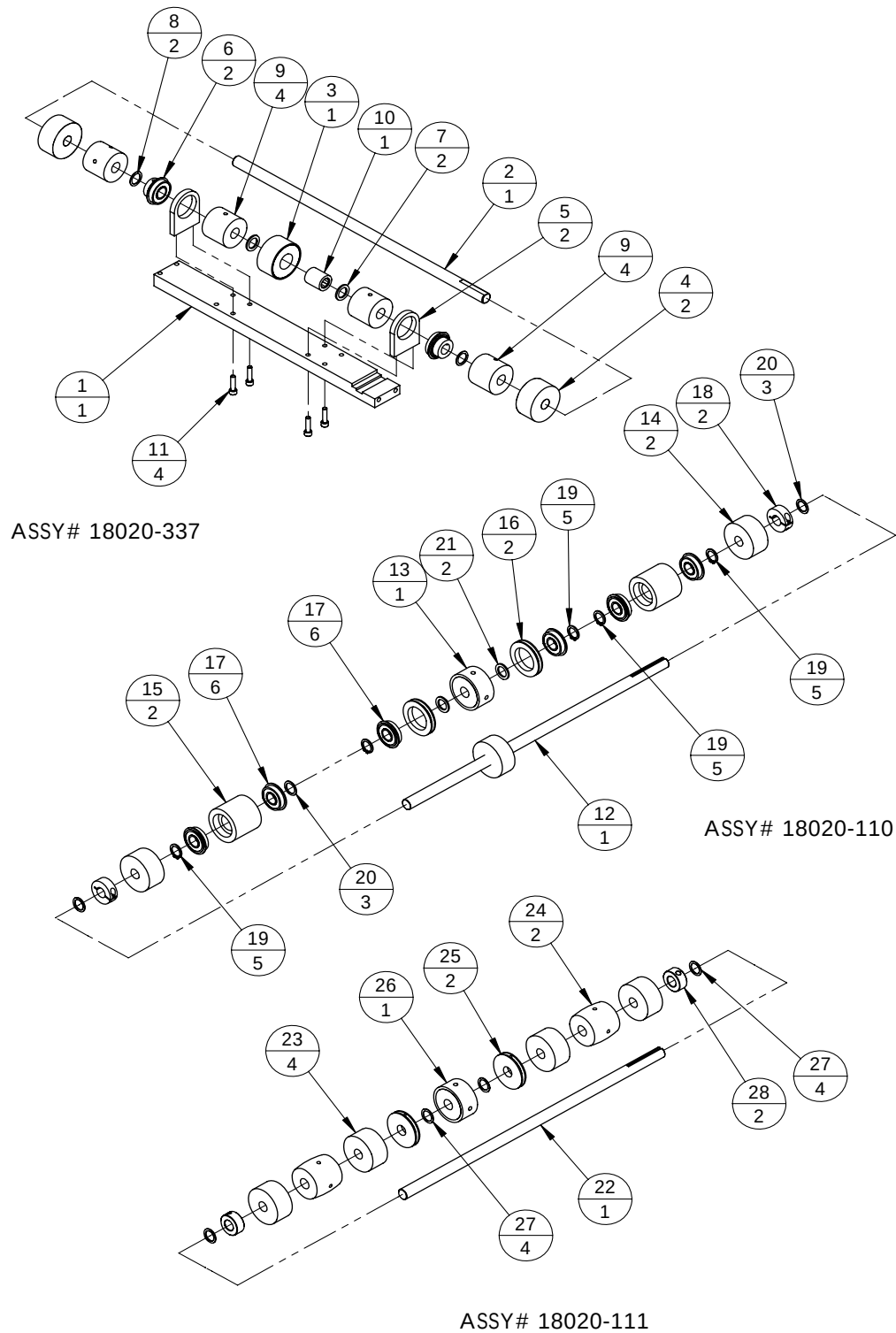
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-337	1	ASSEMBLY, SEPERATOR SHAFT
1	18008-143	1	BAR, SEPERATOR SHAFT SUPPORT
2	18004-106	1	SHAFT, SEPERATOR DRIVE
3	18006-077	1	ROLLER, SEPERATOR
4	10006-007	2	ROLLER, FEEDER, 1/2 B
5	18007-150	2	BLOCK, BEARING
6	99003-093	2	BEARING, 1/2 X 1-1/8, SELAED W/ COLLAR
7	99003-018	2	WASHER, NYLON, 1/2 X 1/16
8	99003-032	2	WASHER, NYLON, 1/2 X 1/32
9	18006-076	4	PULLEY MATE
	-	8	SET SCREW, #10-32 X 1/4
10	99003-112	1	BEARING, ROLLER CLUTCH
11	-	4	SCREW, SKT HEAD, #10-32 X 3/4
	18020-110	1	ASSEMBLY, DOUBLE DETECT SHAFT
12	18004-064	1	SHAFT, DOUBLE DETECT
13	10006-013	1	ROLLER, NIP
	-	2	SET SCREW, #10-32 X 1/4
14	10006-007	2	ROLLER, FEEDER, 1/2 BORE
15	10006-032	2	PULLEY, IDLER
16	10006-030	2	PULLEY, O-RING IDLER
17	99003-007	6	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
18	99017-028	2	COLLAR, ONE PIECE SPLIT – 1/2B
19	99022-004	5	SNAP RING, 1/2
20	99003-032	3	WASHER, NYLON, 1/2 X 1/32
21	99003-018	2	WASHER, NYLON, 1/2 X 1/16

**THIN MAT'L FEEDER (Fig. 5-4)
 SEPERATOR / DBL DETECT / ACCELERATOR SHAFT
 ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-111	1	ASSEMBLY, ACCELERATOR DRIVE
22	18004-006	1	SHAFT, MAIN
23	10006-007	4	ROLLER, FEEDER, 1/2 BORE
24	10006-031	2	PULLEY, ACCELERATOR DRIVE
	-	4	SET SCREW, #10-32 X 1/4
25	10006-004	2	PULLEY, O-RING DRIVE
	-	4	SET SCREW, #8-32 X 1/4
26	10006-013	1	ROLLER, NIP
	-	2	SET SCREW, #10-32 X 1/4
27	99003-032	4	WASHER, NYLON, 1/2 X 1/32
28	99017-004	2	COLLAR, 1/2" SHAFT

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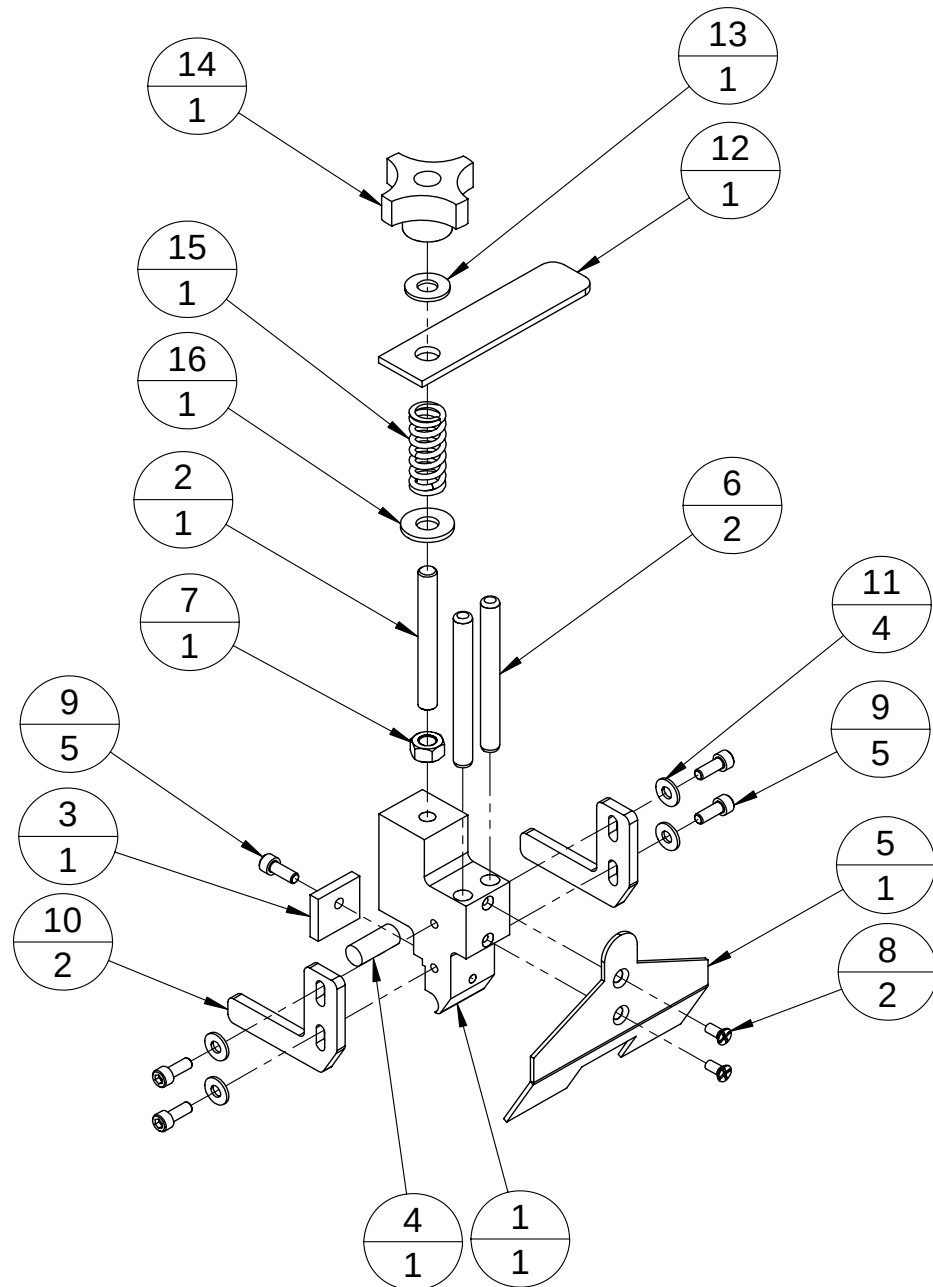


**THIN MAT'L FEEDER (Fig. 5-5)
SEPERATOR ASSEMBLY (18020-335)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18007-148	1	BLOCK, SEPERATOR
2	10004-028	1	STUD, SEPERATOR ADJ.
3	18011-133	1	PLATE, SEPERATOR CLAMP
4	18004-107	1	ROD, SEPERATOR
5	18005-170	1	SHROUD, SEPERATOR
6	99006-002	2	PIN, DOWEL, 5/16 X 3
7	-	1	HEX NUT, 5/16-24
8	-	2	SCREW, FLAT HEAD, #8-32 X 3/8
9	-	5	SCREW, SKT HEAD, #10-32 X 1/2
10	18005-181	2	GUIDE, SEPERATOR EXIT
11	-	4	FLAT WASHER, #10
12	10008-024	1	BAR, SEPERATOR RELEASE
13	99003-015	1	WASHER, NYLON, 5/16 X 1/16
14	99004-001	1	KNOB, 5/16-24 FEMALE
15	99005-045	1	SPRING, SEPERATOR
16	-	1	FLAT WASHER, 5/16

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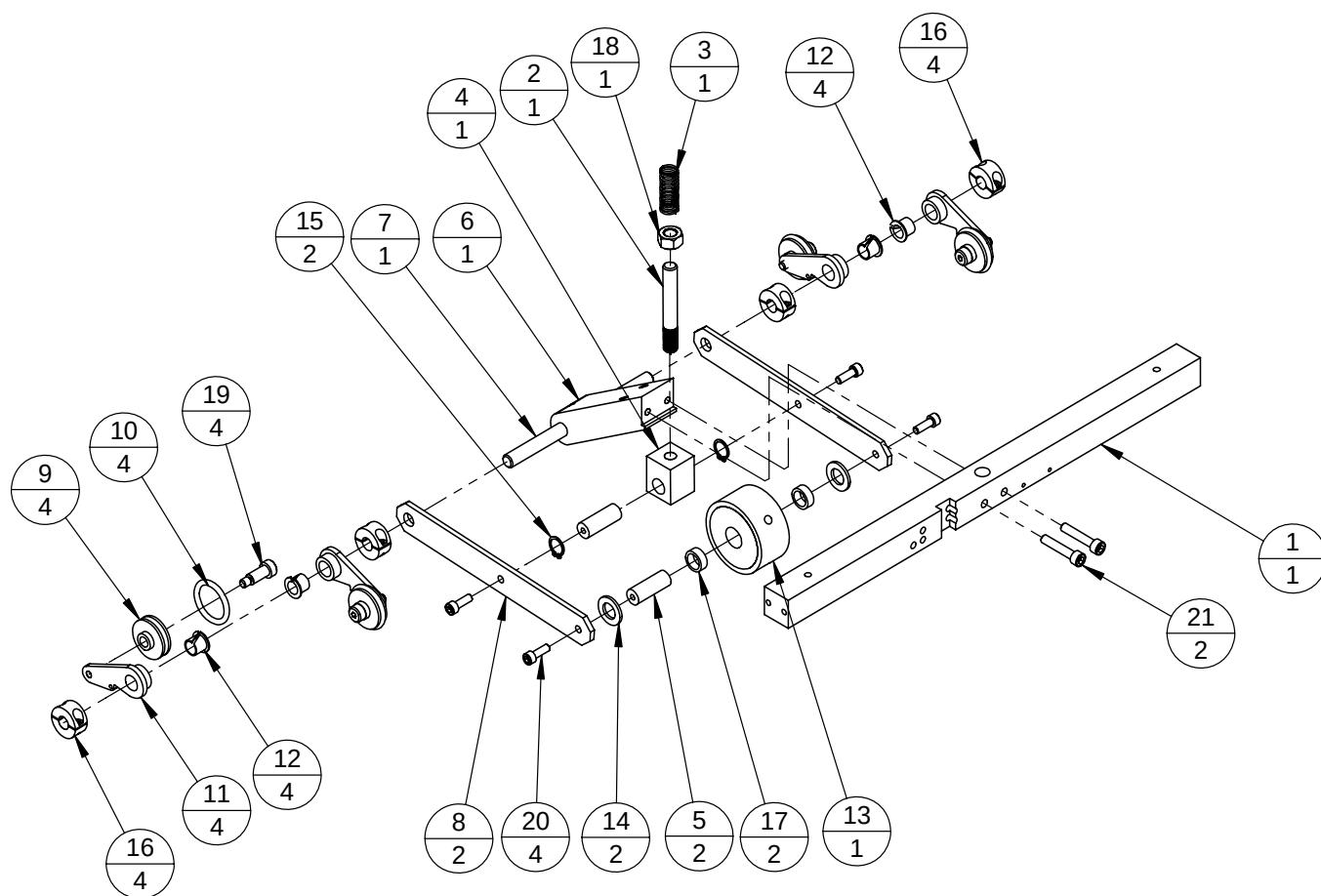


**THIN MAT'L FEEDER (Fig. 5-6)
 TRANSPORT ASSEMBLY (18020-336)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18008-147	1	BAR, DOUBLE DETECT
2	18004-105	1	STUD, SPRING
3	99005-006	1	SPRING, ACCELERATOR ADJ
4	10007-012	1	BLOCK, TONGUE ADJ
5	10012-003	2	SPACER, TONGUE
6	18008-144	1	BAR, TRANSPORT SUPPORT
7	18004-104	1	SHAFT, PIVOT
8	18009-101	2	BRACKET, TRANSPORT SIDE PLATE
9	18006-078	4	ROLLER, IDLER TRANSPORT
10	99039-164	4	O-RING, THIN FEEDER TRANSPORT
11	18008-148	4	BAR, TRANSPORT IDLER ARM
12	99003-110	4	BEARING, FLANGED SNAP IN, 5/16
13	10006-013	1	ROLLER, NIP
	-	2	SET SCREW, #10-32 X 1/4
14	99003-017	2	WASHER, NYLON, 3/8 X 1/16
15	99022-003	2	SNAP RING, 3/8
16	99017-046	4	COLLAR, TWO-PC SPLIT, 5/16 B
17	99003-111	2	BUSHING, SLEEVE, 3/8 X 1/2 X 3/16
18	-	1	HEX NUT, 5/16-24
19	99033-006	4	SHOULDER BOLT, 1/4 X 1/4
20	-	4	SCREW, SKT HEAD, #8-32 X 1/2
21	-	2	SCREW, SKT HEAD, #10-32 X 1
22	99005-052	2	SPRING, EXTENSION (NOT SHOWN)

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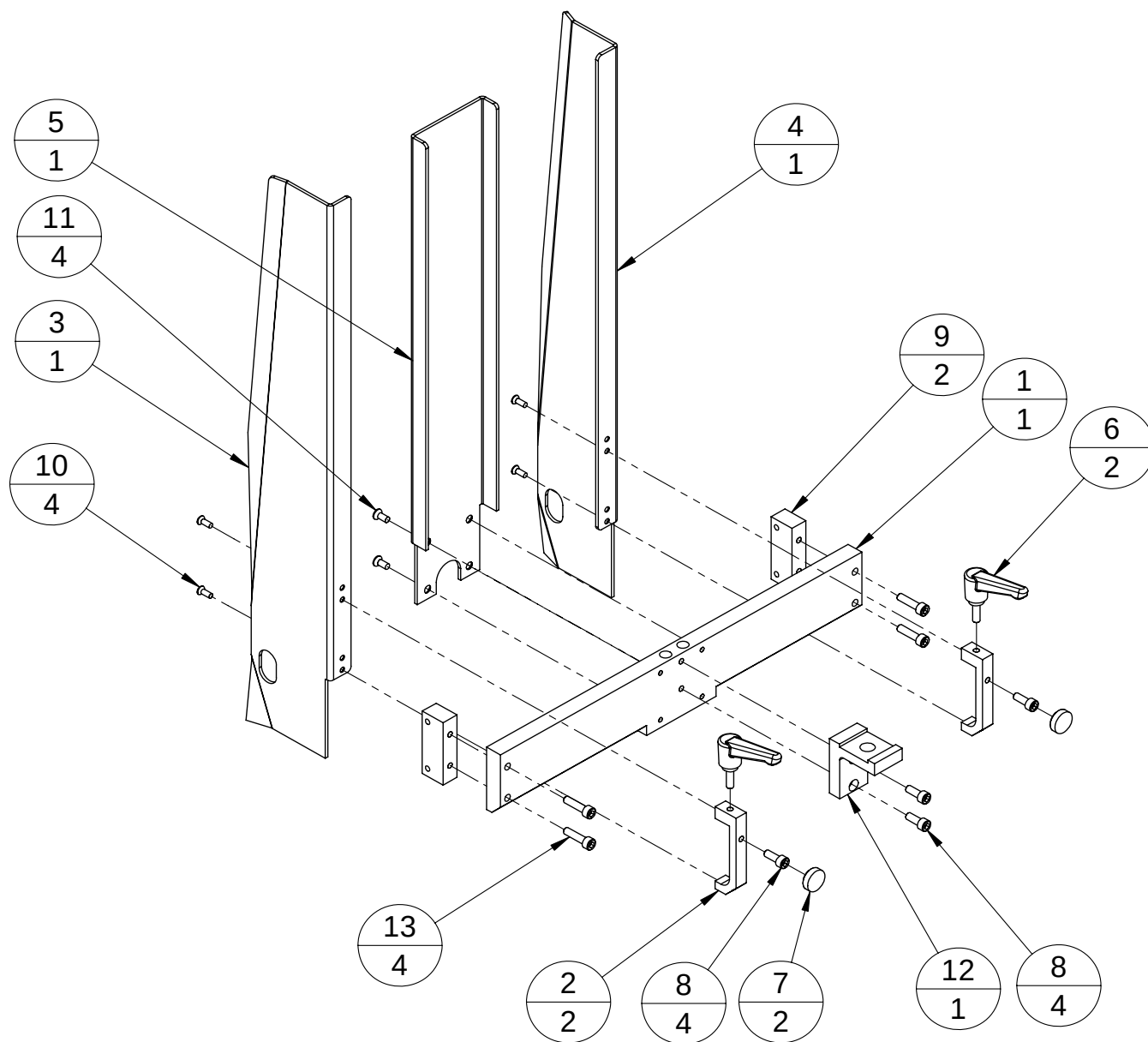


**THIN MAT'L FEEDER (Fig. 5-7)
 PAPER HOPPER ASSEMBLY (18020-370)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18008-146	1	BAR, BRIDGE
2	10009-046	2	BRACKET, SIDE GUIDE MTG
3	18005-175	1	SIDE GUIDE, LH
4	18005-176	1	SIDE GUIDE, RH
5	10005-002	1	GUIDE, FRONT PAPER
6	99004-028	2	HANDLE, RATCHET, #10-32 X 1/2
7	99004-002	2	KNOB, #10 SCREW
8	-	4	SCREW, SKT HEAD, #10-32 X 1/2
9	18012-049	2	SPACER, BRIDGE
10	-	4	SCREW, FLAT HEAD, #6-32 X 1/2
11	-	4	SCREW, FLAT HEAD, #10-24 X 3/8
12	10007-010	1	BLOCK, SEPERATOR ADJ.
13	-	4	SCREW, SKT HEAD, #10-32 X 3/4

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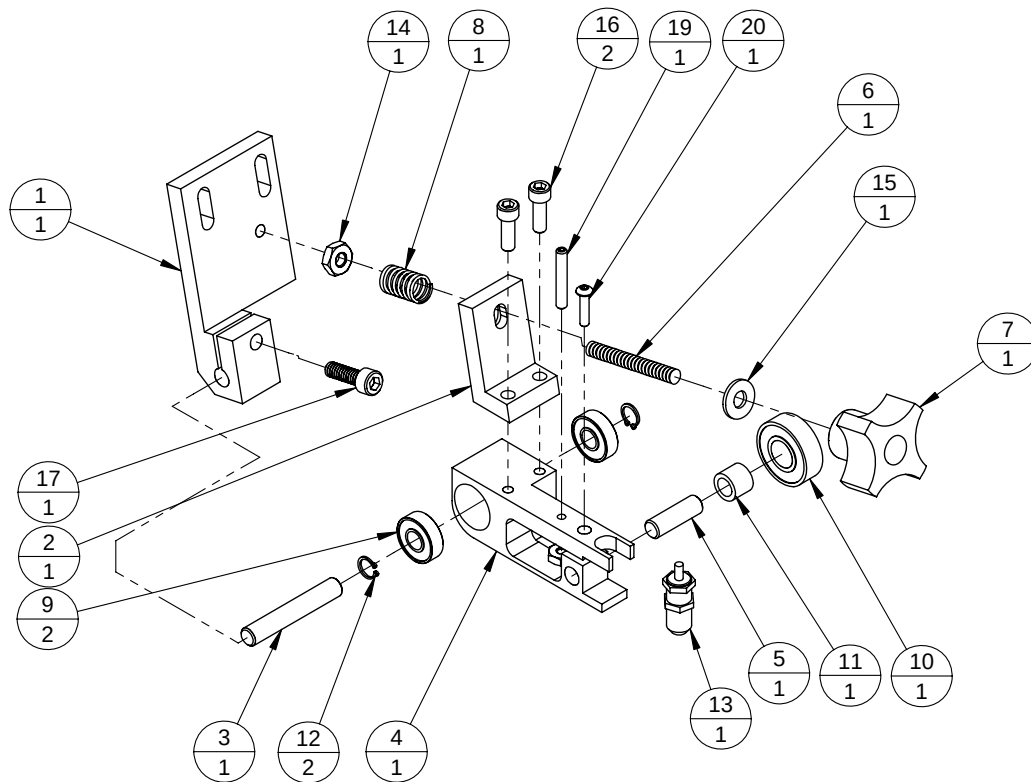


**THIN MAT'L FEEDER (Fig. 5-8)
DOUBLE DETECT / TENSIONER ASSEMBLIES**

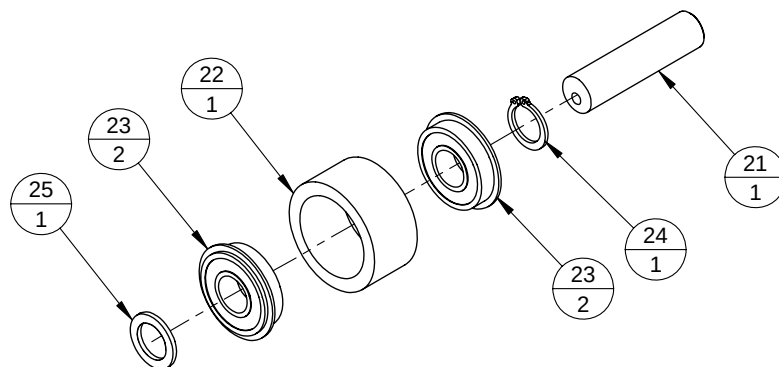
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-068	1	ASSEMBLY, DOUBLE DETECT
1	18009-001	1	BRACKET, DBL DETECT MTG.
2	10009-013	1	BRACKET, PIVOT, TUNING FORK
3	10004-052	1	SHAFT, DBL DETECT PIVOT
4	10009-012	1	BRACKET, TUNING FORK
5	10004-053	1	SHAFT, DBL DETECT
6	99032-003	1	STUD, #10-32 X 1-1/2
7	99004-005	1	KNOB, FEMALE, #10-32
8	99005-007	1	SPRING, GATE ADJ.
9	99003-002	2	BEARING, 1/4 X 5/8 SEALED
10	99003-001	1	BEARING, 3/8 X 7/8 SEALED
11	99003-005	1	BUSHING, SLEEVE, 1/4 X 3/8 X 5/16
12	99022-001	2	SNAP RING, ¼
13	98009-004	1	SENSOR, DBL DETECT SWITCH
14	-	1	NUT, HEX, #10-32
15	-	1	FLAT WASHER, #10
16	-	2	SCREW, SKT HEAD, #8-32 X 1/2
17	-	1	SCREW, SKT HEAD, #10-24 X 5/8
18	-	1	NUT, HEX, #6-32
19	-	1	SCREW, SET, #6-32 X 7/8
20	-	1	SCREW, BUTTON HEAD, #4-40 X 1/2
	18020-153	1	ASSEMBLY, TENSIONER
21	18004-031	1	SHAFT, STUB IDLER
22	18006-011	1	PULLEY, FLAT IDLER, 1-1/2" OD X 3/4" W
23	99003-007	2	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
24	99003-018	1	WASHER, NYLON, 1/2 X 1/16
25	99022-004	1	SNAP RING, 1/2

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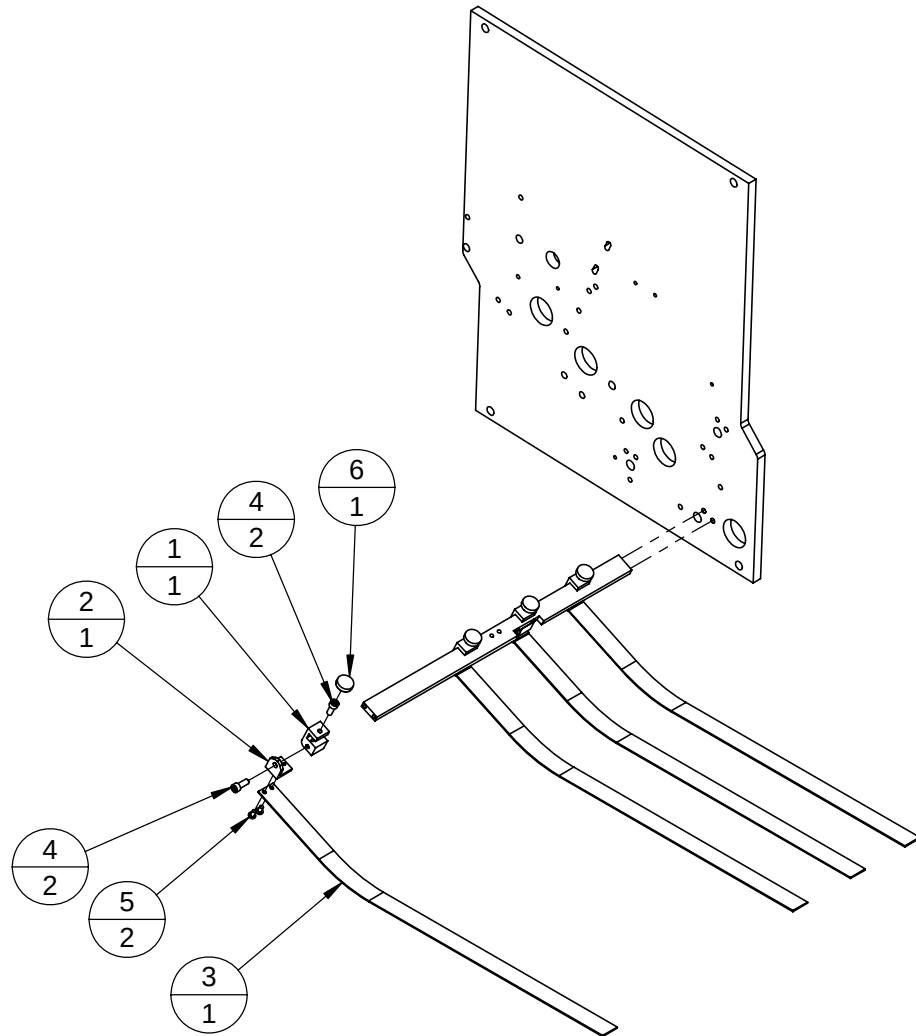
ASSY# 18020-068



ASSY# 18020-153

THIN MAT'L FEEDER (Fig. 5-9)
FEEDER DRAG STRAP ASSEMBLY (18020-073)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18009-014	1	BRACKET, DRAG STRAP MTG.
2	18009-029	1	BRACKET, DRAG STRAP PIVOT
3	18014-010	1	DRAG STRAP, FEEDER
4	-	2	SCREW, SKT HEAD, #10-24 X 1/2
5	-	2	SCREW, PAN HEAD, #6-32 X 1/4
6	99004-002	1	KNB, #10 SCREW

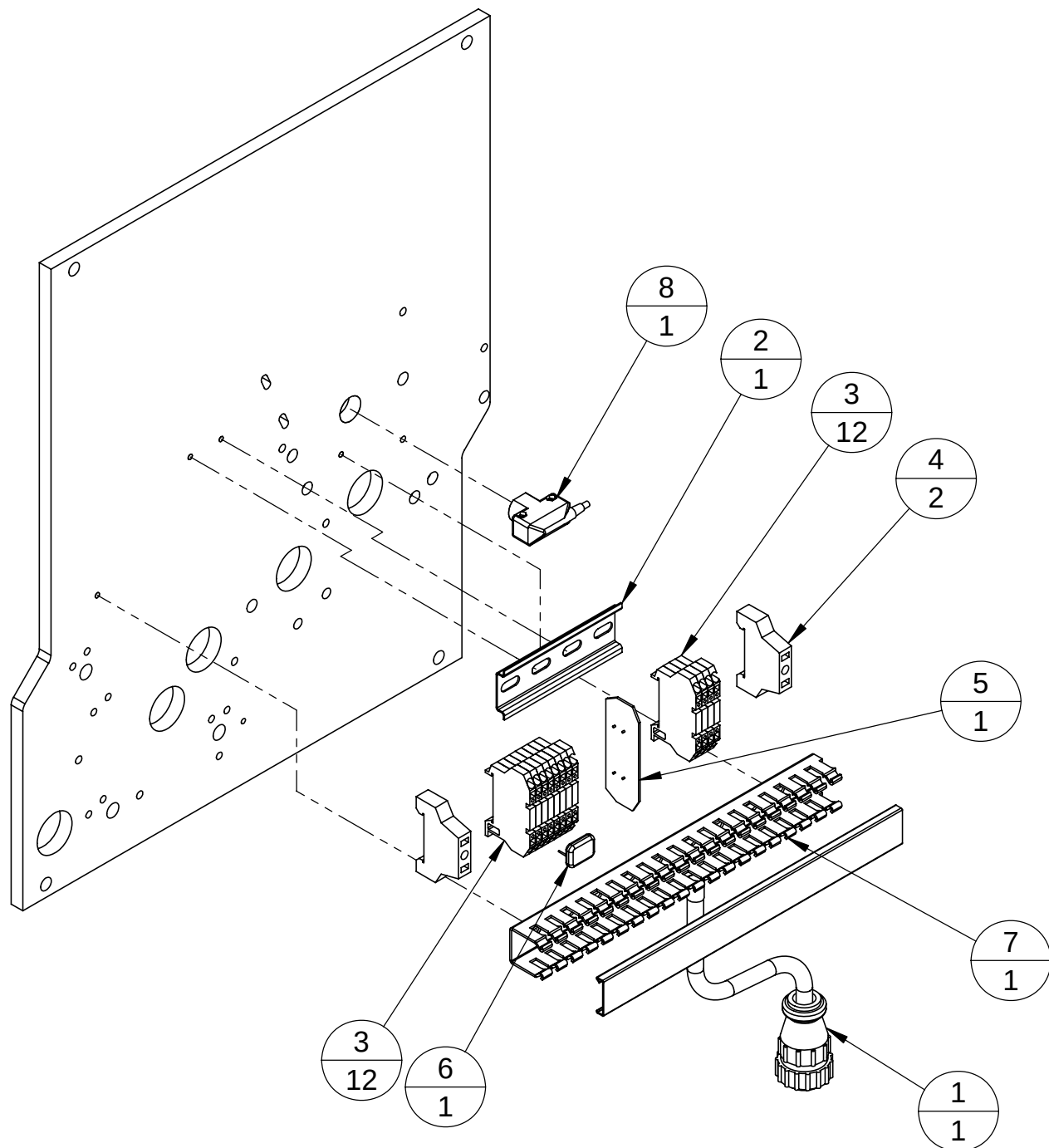


FRICITION FEEDER – ELECTRICAL (Fig. 5-10)
REAR FEEDER PLATE ASSEMBLY (18021-105)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18021-087	1	ASSEMBLY, PLUG
2	98001-022	4"	DIN RAIL, PHOENIX
3	98001-010	12	TERMINAL BLOCK, SPRING, ENTRELEC
4	98001-014	2	TERMINAL BLOCK, END STOP, ENTRELEC
5	98001-026	1	CIRCUIT DIVIDER
6	98020-029	1	CAPACITOR, 60HZ
7	98012-004	10"	DUCT, 1" X 1" WIREWAY W/ COVER
8	98009-051	1	SENSOR, RETRO REFLECTIVE

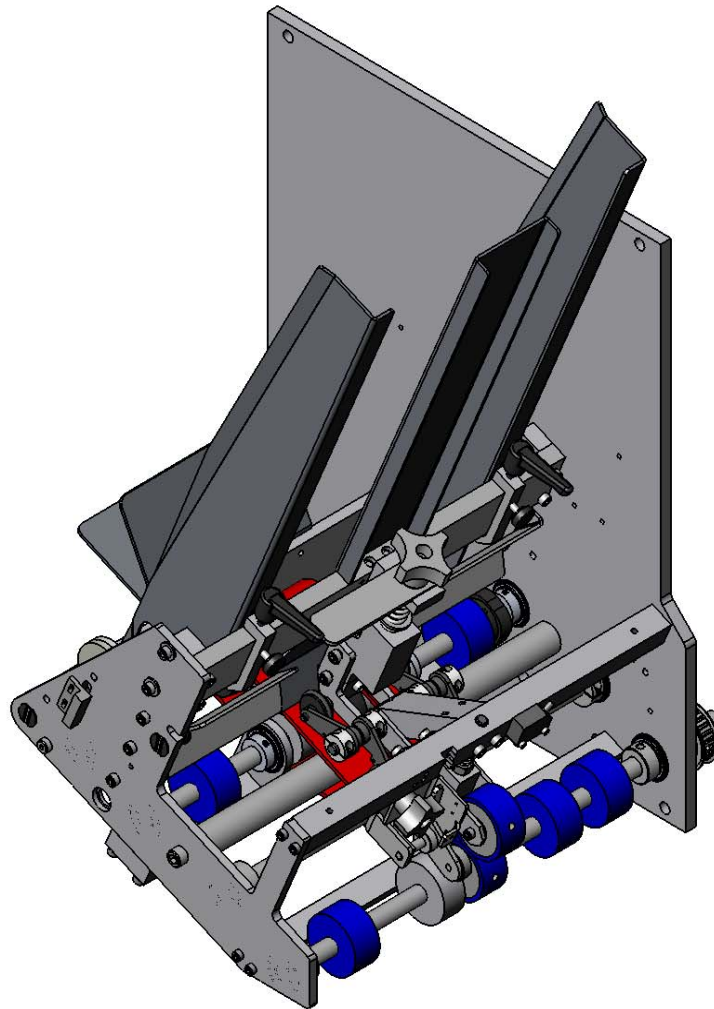
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THIN MATERIAL FEEDER ***6X9***



**THIN MAT'L FEEDER ASSEMBLY (Fig. 6-1)
(18020-365)**

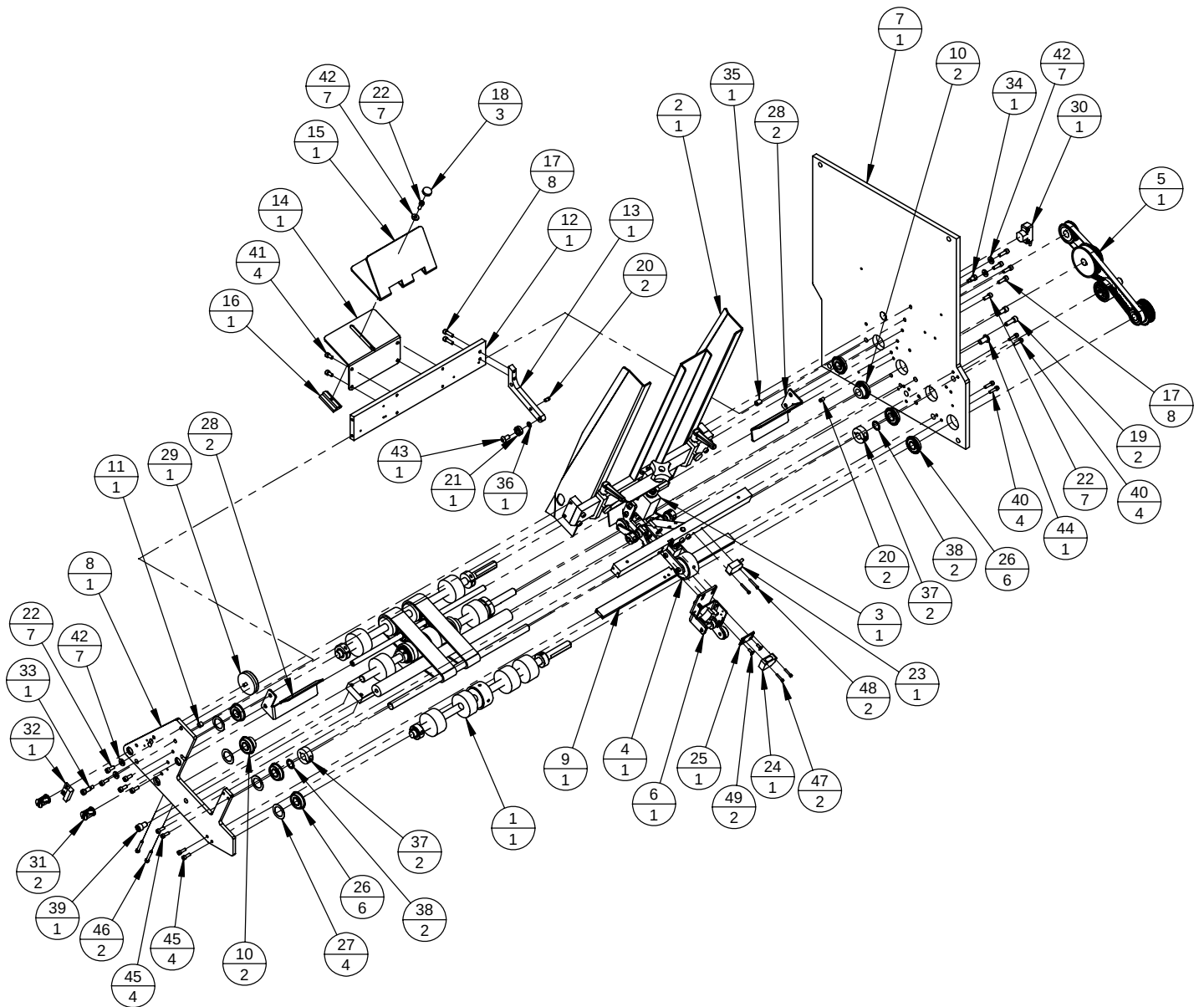
ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 6-2	1	ASSEMBLIES, FEEDER SHAFTS
2	SEE FIG. 6-7	1	ASSEMBLY, PAPER HOPPER (18020-370)
3	SEE FIG. 6-5	1	ASSEMBLY, SEPERATOR (18020-335)
4	SEE FIG. 6-6	1	ASSEMBLY, TRANSPORT (18020-340)
5	SEE FIG. 6-2	1	ASSEMBLY, FEEDER TIMING
6	SEE FIG. 6-8	1	ASSEMBLY, DOUBLE DETECT (18020-068)
7	18011-143	1	PLATE, FEEDER MTG (6X9)
8	10000-017	1	SIDEFRAME, COLLATOR FEEDER (6X9)
9	18008-013	1	BAR, SENSOR / DRAG STRAP MTG.
10	99003-093	2	BEARING, 1/2 X 1-1/8, SEALED W/ COLLAR
11	99003-072	1	BUSHING, 1/4 X 5/16 X 1/4
12	18003-011	1	BAR, BACK SUPPORT (6X9)
13	18008-124	1	BAR, CAM FOLLOWER SUPPORT (6X9)
14	18005-005	1	BRACKET, PAPER SLIDE SUPPORT
15	10005-104	1	GUIDE, PAPER, REAR WEDGE
16	18007-149	1	NUT, PAPER SLIDE
17	-	8	SCREW, SKT HEAD, #10-32 X 5/8
18	99004-002	1	KNOB, #10 SCREW
19	-	2	BOLT, SKT HEAD, 1/4-20 X 3/4
20	99006-031	2	PIN, SPRING CLIP, GROOVED
21	99003-002	1	BEARING, 1/4 X 5/8 SEALED
22	-	7	SCREW, SKT HEAD, #10-32 X 1/2
23	98009-037	1	SENSOR, SENDER, THRU BEAM
24	98009-002	1	SENSOR, RECIEVER, THRU BEAM
25	18011-075	1	PLATE, ADAPTOR, LOWER SENSOR
26	99003-007	6	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
27	99036-003	4	SHIM, BEARING, 3/4 X 1-1/8 X .006

**THIN MAT'L FEEDER ASSEMBLY (Fig. 6-1)
(18020-365)**

ITEM	PART NO.	QTY.	DESCRIPTION
28	18013-217	2	COVER, HOPPER SHIELD
29	98019-066	1	REFLECTOR
30	98009-051	1	SENSOR, P&F, RETRO REFLECTIVE
31	99039-062	2	MAGNETIC CATCH
32	98000-036	1	REED SWITCH
33	99033-006	1	SHOULDER BOLT, 1/4 X 1/4
34	99033-004	1	SHOULDER BOLT, 1/4 X 3/8
35	99003-073	1	BUSHING, SLEEVE, 1/4 X 5/16 X 3/8
36	99003-034	1	WASHER, NYLON, 1/2 X 1/16
37	99017-028	2	COLLAR, 1/2", ONE-PIECE SPLIT
38	99003-032	2	WASHER, NYLON, 1/2 X 1/32
39	-	1	BOLT, SKT HEAD, 5/16-18 X 5/8
40	-	4	SCREW, SKT HEAD, #8-32 X 5/8
41	-	4	SCREW, SKT HEAD, #8-32 X 3/8
42	-	7	FLAT WASHER, #10
43	-	1	SCREW, BUTTON HEAD, 1/4-20 X 1/2
44	-	1	BOLT, BUTTON HEAD, 5/16-18 X 5/8
45	-	4	SCREW, SKT HEAD, #8-32 X 1/2
46	-	2	SCREW, SKT HEAD, #10-32 X 7/8
47	-	2	SCREW, SKT HEAD, #4-40 X 3/4
48	-	2	SCREW, SKT HEAD, #4-40 X 7/16
49		2	SCREW, FLAT HEAD, #6-32 X 3/8
50	99005-012	1	SPRING, EXTENSION (NOT SHOWN) (ATTACHES TO ITEM #20)

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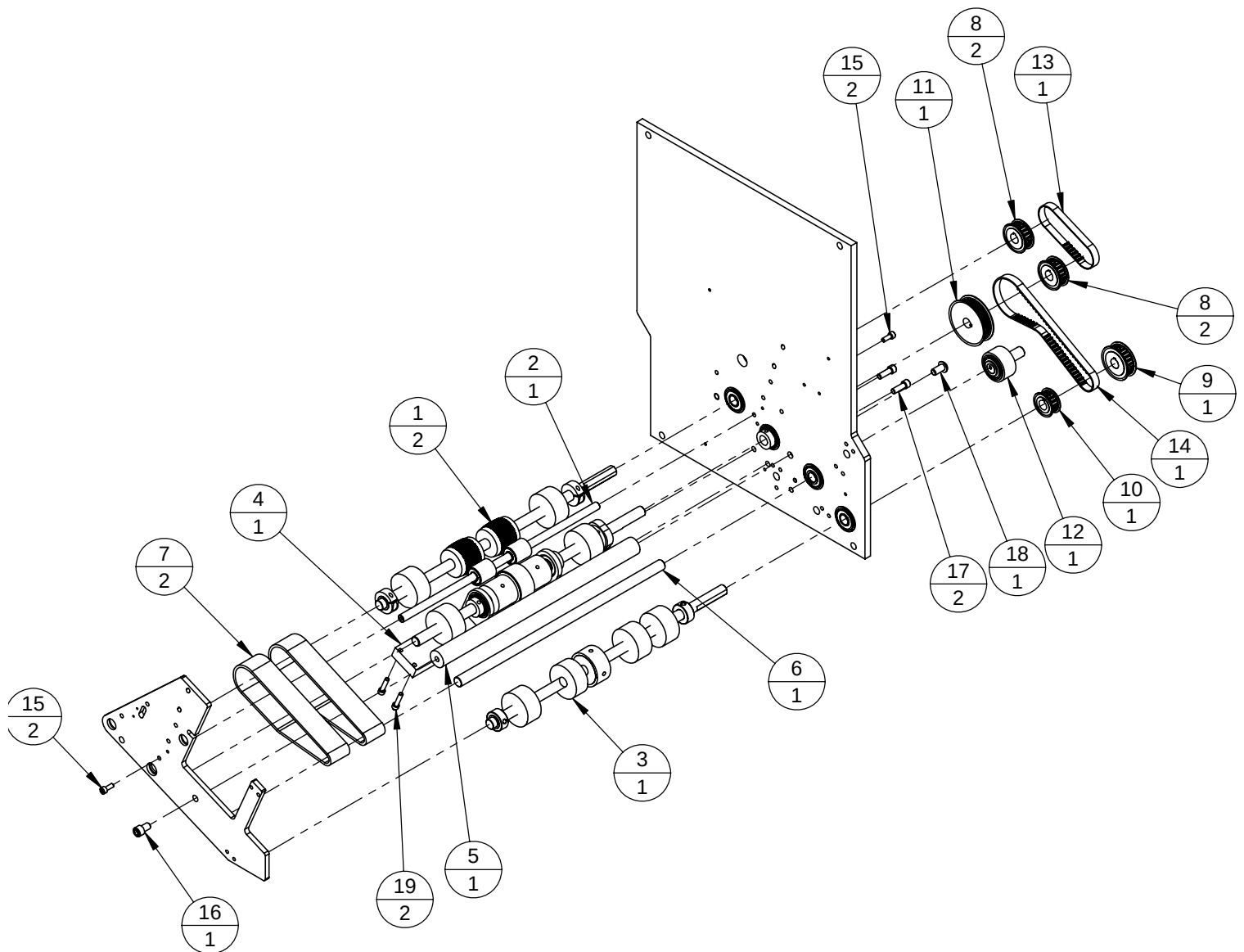


THIN MAT'L FEEDER (Fig. 6-2)
FEEDER SHAFT / TIMING ASSEMBLIES

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 6-3	1	ASSEMBLY, CROWN ROLLER SHAFT (18020-339)
2	SEE FIG. 6-3	1	ASSEMBLY, IDLER SUPPORT SHAFT (18020-341)
3	SEE FIG. 6-4	1	ASSEMBLY, DOUBLE DETECT SHAFT (18020-106)
4	SEE FIG. 6-4	1	ASSEMBLY, SEPERATOR SHAFT (18020-334)
5	18004-003	1	SHAFT, MAIN SUPPORT
6	18004-007	1	SHAFT, FRONT
7	99000-004	2	BELT, RED GUM
8	99002-054	2	PULLEY, TIMING, 20XL037, 1/2B
9	99002-031	1	PULLEY, TIMING, 24XL037, 1/2B
10	99002-032	1	PULLEY, TIMING, 16XL037, 1/2B
11	99002-017	1	PULLEY, TIMING, 32XL037, 1/2B
12	SEE FIG. 6-8	1	ASSEMBLY, TENSIONER (18020-153)
13	99000-001	1	BELT, TIMNG, 90XL037
14	99000-027	1	BELT, TIMING, 160XL037
15	-	2	SCREW, SKT HEAD, #10-32 X 1/2
16	-	1	BOLT, SKT HEAD, 5/16-18 X 1/2
17	-	2	BOLT, SKT HEAD, 1/4-20 X 3/4
18	-	1	BOLT, BUTTON HEAD, 5/16-18 X 5/8
19	-	2	SCREW, SKT HEAD, #10-32 X 7/8

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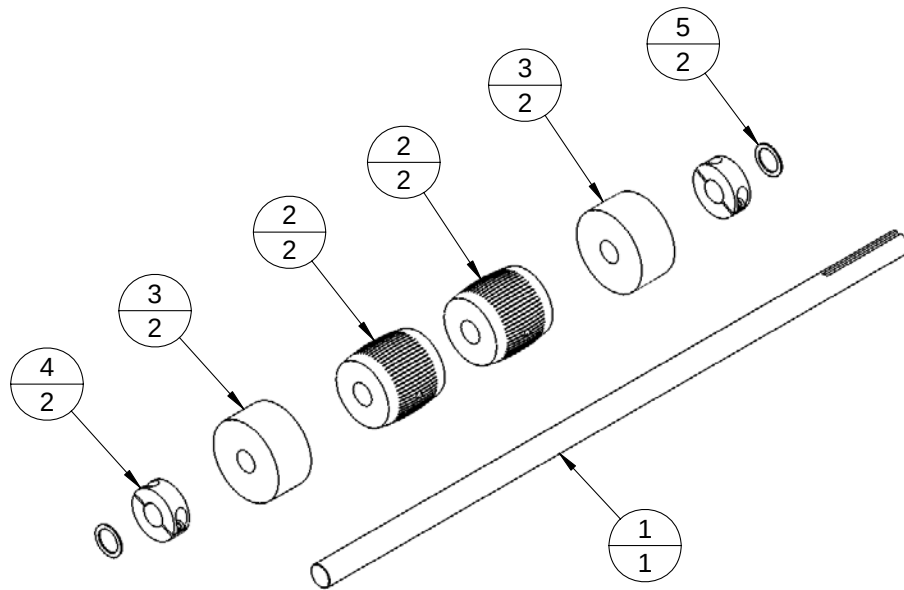


**THIN MAT'L FEEDER (Fig. 6-3)
 IDLER SUPPORT / CROWN ROLLER SHAFT ASSEMBLIES**

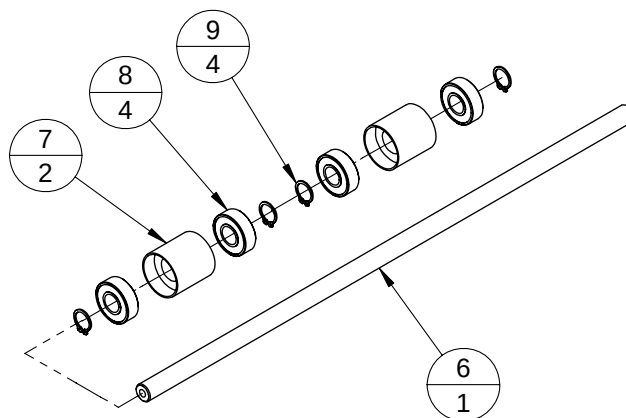
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-339	1	ASSEMBLY, CROWN ROLLER SHAFT
1	18004-006	1	SHAFT, MAIN
2	10006-018	2	PULLEY, CROWNED
	-	4	SET SCREW, #10-32 X 1/4
3	10006-007	2	ROLLER FEEDER, 1/2 B
4	99017-022	2	COLLAR, TWO-PC SPLIT, 1/2 B
5	99003-032	2	WASHER, NYLON, 1/2 X 1/32
	18020-341	1	ASSEMBLY, IDLER SUPPORT SHAFT
6	18004-004	1	SHAFT, IDLER SUPPORT
7	10006-012	2	ROLLER, IDLER
8	99003-008	4	BEARING, 3/8 X 7/8 SEALED
9	99022-004	4	SNAP RING, 3/8

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ASSY# 18020-339



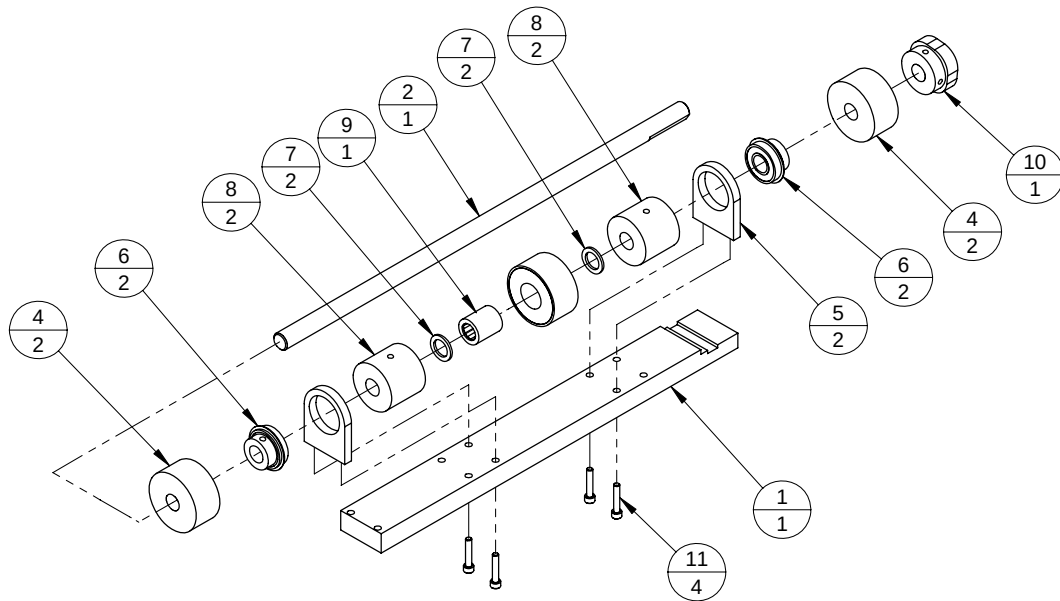
ASSY# 18020-341

**THIN MAT'L FEEDER (Fig. 6-4)
 SEPERATOR / DBL DETECT / ACCELERATOR SHAFT
 ASSEMBLIES**

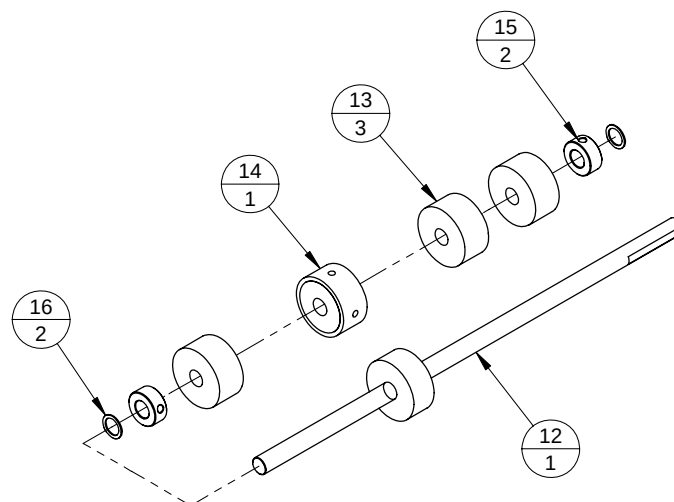
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-334	1	ASSEMBLY, SEPERATOR SHAFT
1	18008-143	1	BAR, SEPERATOR SHAFT SUPPORT
2	18004-106	1	SHAFT, SEPERATOR DRIVE
3	18006-077	1	ROLLER, SEPERATOR
4	10006-007	2	ROLLER, FEEDER, 1/2 B
5	18007-150	2	BLOCK, BEARING
6	99003-093	2	BEARING, 1/2 X 1-1/8, SELAED W/ COLLAR
7	99003-018	2	WASHER, NYLON, 1/2 X 1/16
8	18006-076	2	PULLEY MATE
	-	4	SET SCREW, #10-32 X 1/4
9	99003-112	1	BEARING, ROLLER CLUTCH
10	18016-015	1	CAM, ROLLER CLUTCH
	-	2	SET SCREW, #10-24 X 1/4
11	-	4	SCREW, SKT HEAD, #6-32 X 3/4
	18020-106	1	ASSEMBLY, DOUBLE DETECT SHAFT
12	18004-064	1	SHAFT, DOUBLE DETECT
13	10006-007	3	ROLLER, FEEDER, 1/2 BORE
14	10006-013	1	ROLLER, NIP
	-	2	SET SCREW, #10-32 X 1/4
15	99017-004	2	COLLAR, 1/2" SHAFT
16	99003-032	2	WASHER, NYLON, 1/2 X 1/32

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ASSY# 18020-334



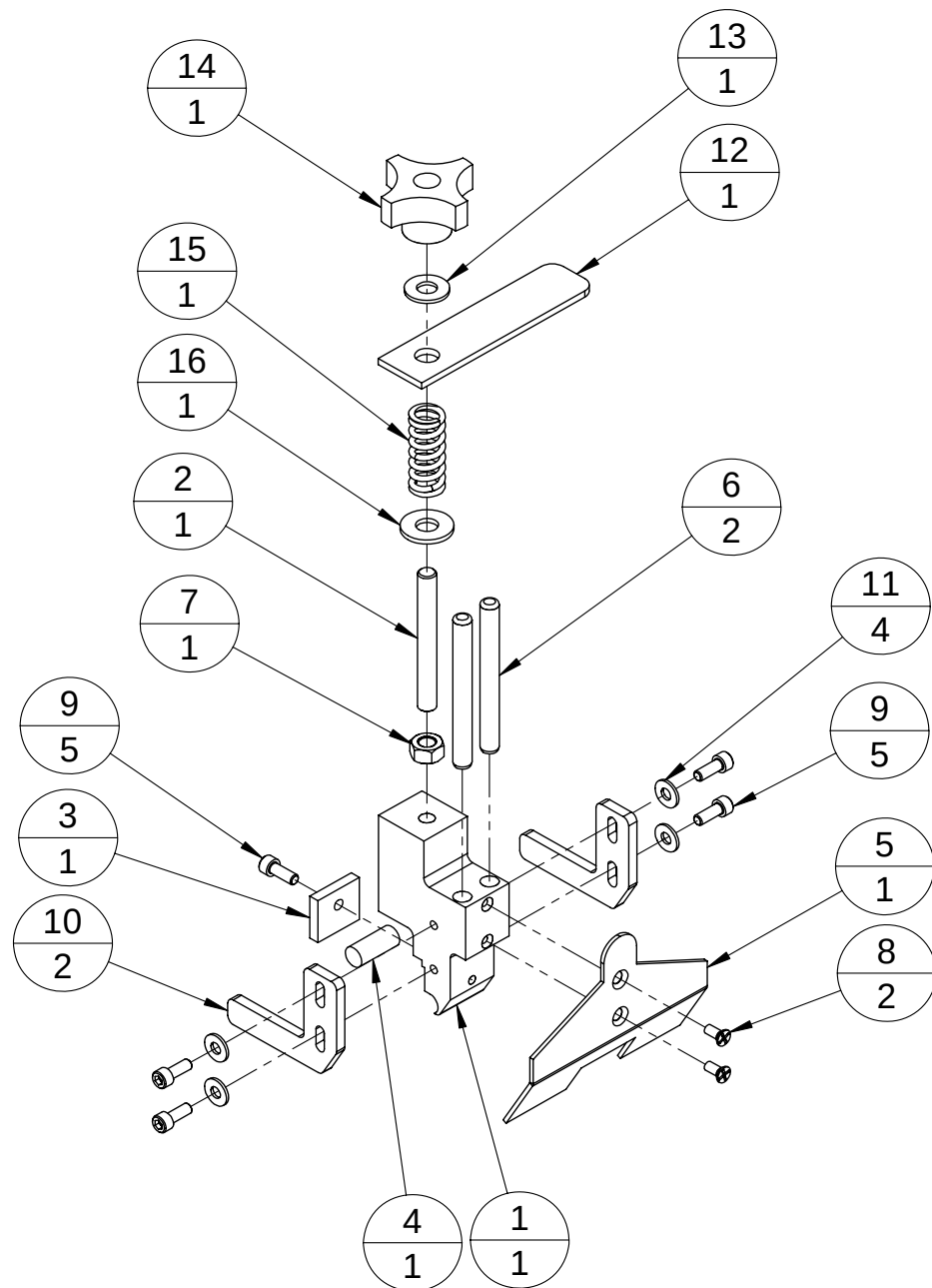
ASSY# 18020-106

**THIN MAT'L FEEDER (Fig. 6-5)
 SEPERATOR ASSEMBLY (18020-335)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18007-148	1	BLOCK, SEPERATOR
2	10004-028	1	STUD, SEPERATOR ADJ.
3	18011-133	1	PLATE, SEPERATOR CLAMP
4	18004-107	1	ROD, SEPERATOR
5	18005-170	1	SHROUD, SEPERATOR
6	99006-002	2	PIN, DOWEL, 5/16 X 3
7	-	1	HEX NUT, 5/16-24
8	-	2	SCREW, FLAT HEAD, #8-32 X 3/8
9	-	5	SCREW, SKT HEAD, #10-32 X 1/2
10	18005-181	2	GUIDE, SEPERATOR EXIT
11	-	4	FLAT WASHER, #10
12	10008-024	1	BAR, SEPERATOR RELEASE
13	99003-015	1	WASHER, NYLON, 5/16 X 1/16
14	99004-001	1	KNOB, 5/16-24 FEMALE
15	99005-045	1	SPRING, SEPERATOR
16	-	1	FLAT WASHER, 5/16

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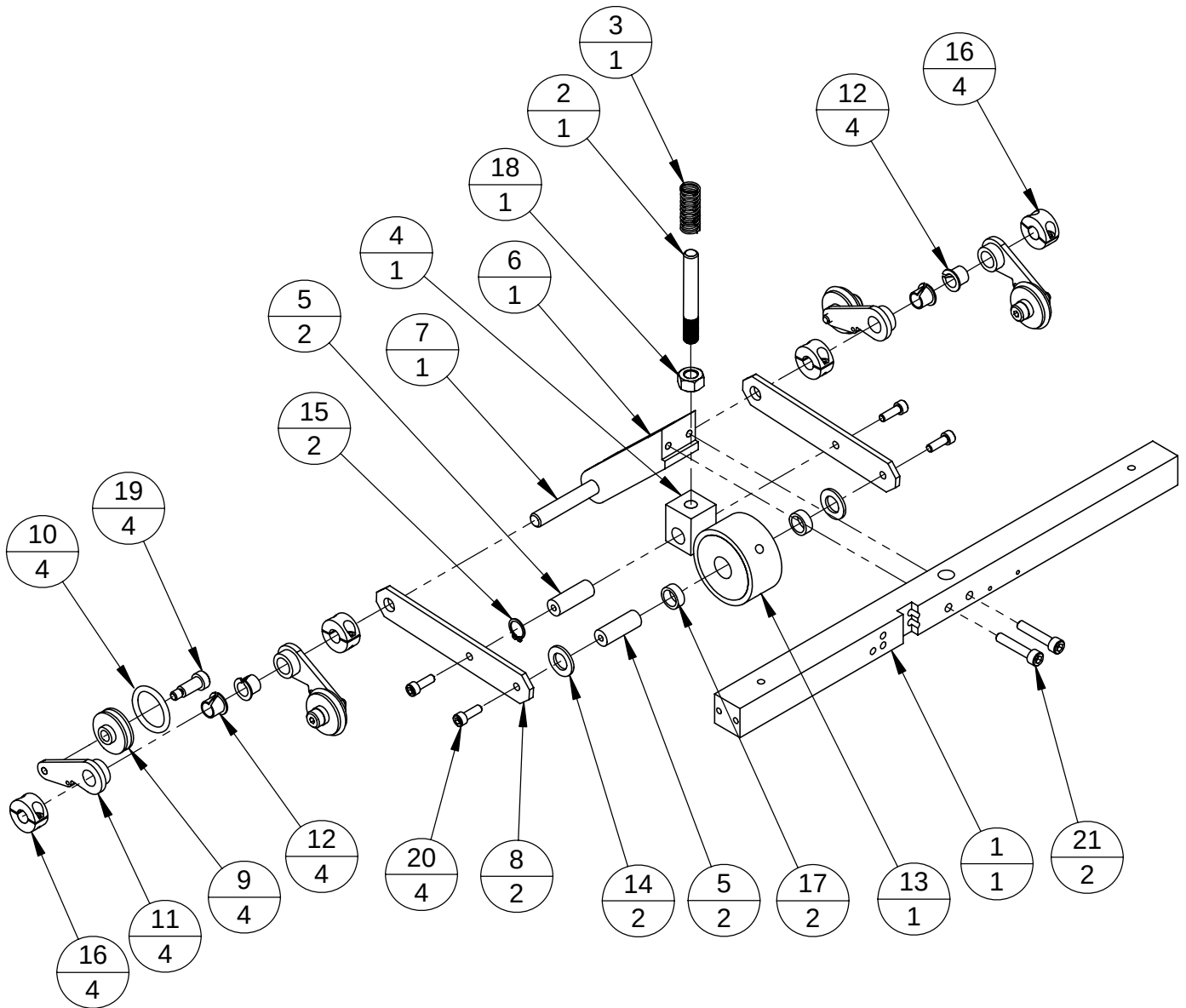


**THIN MAT'L FEEDER (Fig. 6-6)
TRANSPORT ASSEMBLY (18020-340)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18008-147	1	BAR, DOUBLE DETECT
2	18004-105	1	STUD, SPRING
3	99005-006	1	SPRING, ACCELERATOR ADJ
4	10007-012	1	BLOCK, TONGUE ADJ
5	10012-003	2	SPACER, TONGUE
6	18008-145	1	BAR, TRANSPORT SUPPORT (6X9)
7	18004-104	1	SHAFT, PIVOT
8	18009-102	2	BRACKET, TRANSPORT SIDE PLATE (6X9)
9	18006-078	4	ROLLER, IDLER TRANSPORT
10	99039-164	4	O-RING, THIN FEEDER TRANSPORT
11	18008-148	4	BAR, TRANSPORT IDLER ARM
12	99003-110	4	BEARING, FLANGED SNAP IN, 5/16
13	10006-013	1	ROLLER, NIP
	-	2	SET SCREW, #10-32 X 1/4
14	99003-017	2	WASHER, NYLON, 3/8 X 1/16
15	99022-003	2	SNAP RING, 3/8
16	99017-046	4	COLLAR, TWO-PC SPLIT, 5/16 B
17	99003-111	2	BUSHING, SLEEVE, 3/8 X 1/2 X 3/16
18	-	1	HEX NUT, 5/16-24
19	99033-006	4	SHOULDER BOLT, 1/4 X 1/4
20	-	4	SCREW, SKT HEAD, #8-32 X 1/2
21	-	2	SCREW, SKT HEAD, #10-32 X 1
22	99005-052	2	SPRING, EXTENSION (NOT SHOWN)

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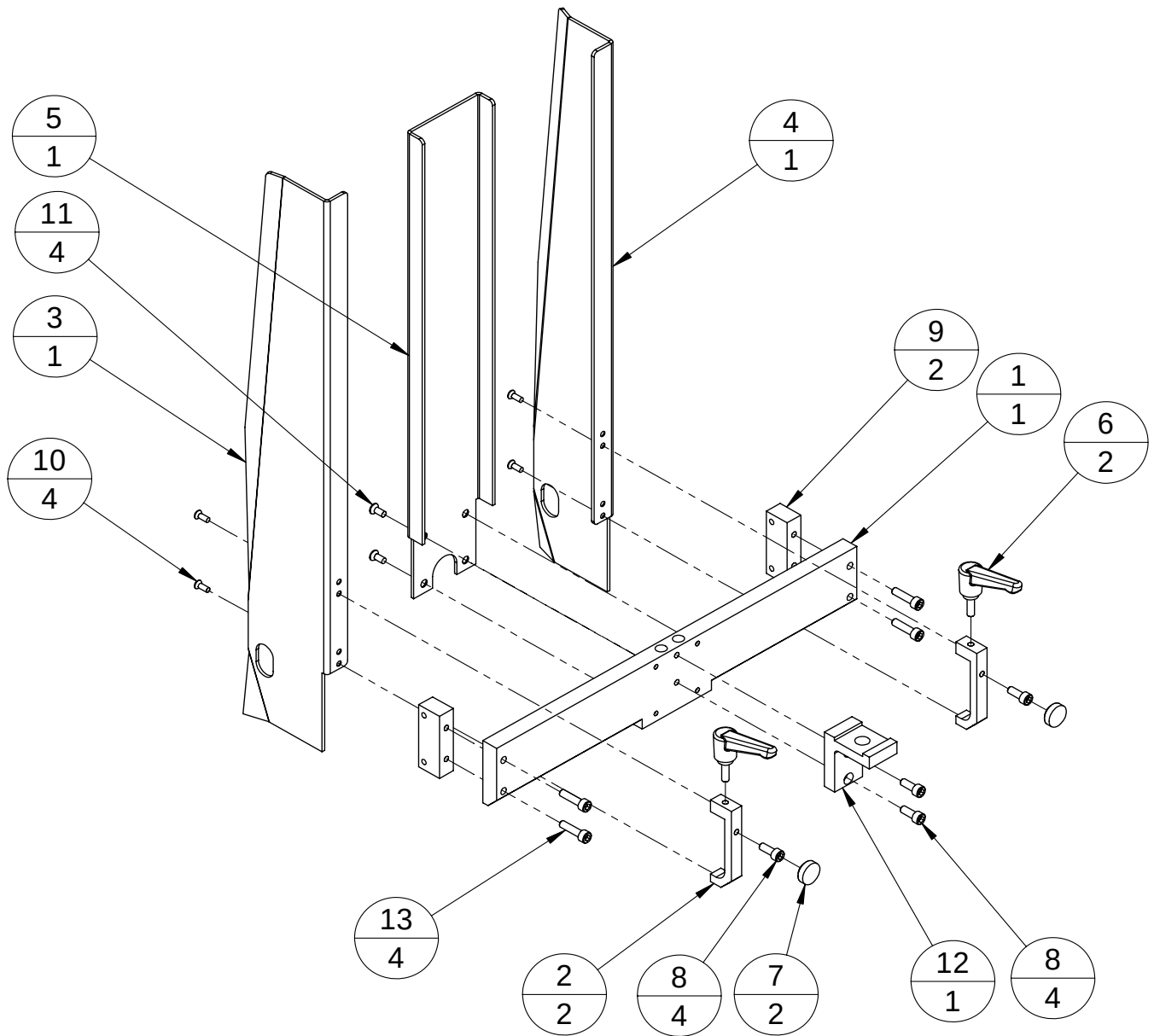


**THIN MAT'L FEEDER (Fig. 6-7)
 PAPER HOPPER ASSEMBLY (18020-370)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18008-146	1	BAR, BRIDGE
2	10009-046	2	BRACKET, SIDE GUIDE MTG
3	18005-175	1	SIDE GUIDE, LH
4	18005-176	1	SIDE GUIDE, RH
5	10005-002	1	GUIDE, FRONT PAPER
6	99004-028	2	HANDLE, RATCHET, #10-32 X 1/2
7	99004-002	2	KNOB, #10 SCREW
8	-	4	SCREW, SKT HEAD, #10-32 X 1/2
9	18012-049	2	SPACER, BRIDGE
10	-	4	SCREW, FLAT HEAD, #6-32 X 1/2
11	-	4	SCREW, FLAT HEAD, #10-24 X 3/8
12	10007-010	1	BLOCK, SEPERATOR ADJ.
13	-	4	SCREW, SKT HEAD, #10-32 X 3/4

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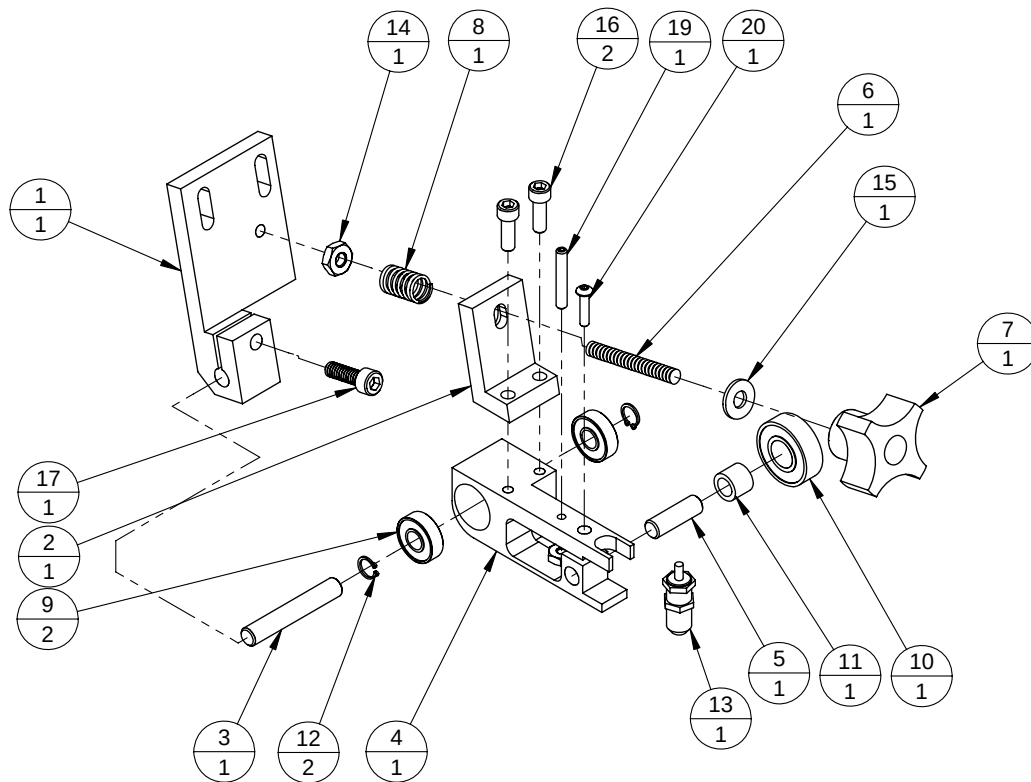


**THIN MAT'L FEEDER (Fig. 6-8)
DOUBLE DETECT / TENSIONER ASSEMBLIES**

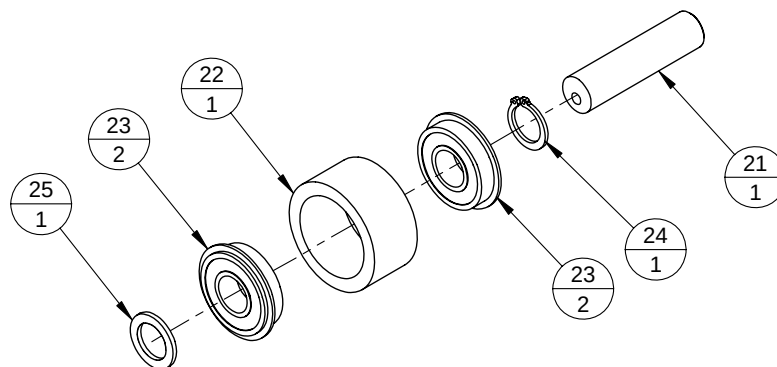
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-068	1	ASSEMBLY, DOUBLE DETECT
1	18009-001	1	BRACKET, DBL DETECT MTG.
2	10009-013	1	BRACKET, PIVOT, TUNING FORK
3	10004-052	1	SHAFT, DBL DETECT PIVOT
4	10009-012	1	BRACKET, TUNING FORK
5	10004-053	1	SHAFT, DBL DETECT
6	99032-003	1	STUD, #10-32 X 1-1/2
7	99004-005	1	KNOB, FEMALE, #10-32
8	99005-007	1	SPRING, GATE ADJ.
9	99003-002	2	BEARING, 1/4 X 5/8 SEALED
10	99003-001	1	BEARING, 3/8 X 7/8 SEALED
11	99003-005	1	BUSHING, SLEEVE, 1/4 X 3/8 X 5/16
12	99022-001	2	SNAP RING, 1/4
13	98009-004	1	SENSOR, DBL DETECT SWITCH
14	-	1	NUT, HEX, #10-32
15	-	1	FLAT WASHER, #10
16	-	2	SCREW, SKT HEAD, #8-32 X 1/2
17	-	1	SCREW, SKT HEAD, #10-24 X 5/8
18	-	1	NUT, HEX, #6-32
19	-	1	SCREW, SET, #6-32 X 7/8
20	-	1	SCREW, BUTTON HEAD, #4-40 X 1/2
	18020-153	1	ASSEMBLY, TENSIONER
21	18004-031	1	SHAFT, STUB IDLER
22	18006-011	1	PULLEY, FLAT IDLER, 1-1/2" OD X 3/4" W
23	99003-007	2	BEARING, 1/2 X 1-1/8 SEALED W/ S.R.
24	99003-018	1	WASHER, NYLON, 1/2 X 1/16
25	99022-004	1	SNAP RING, 1/2

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ASSY# 18020-068



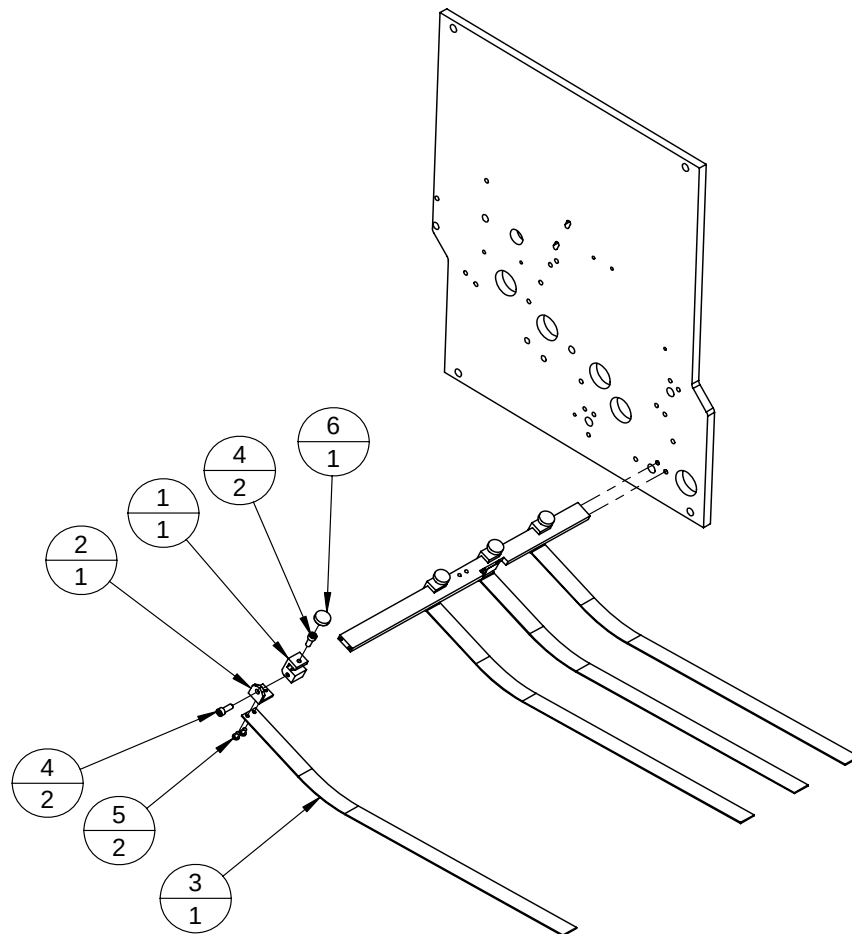
ASSY# 18020-153

THIN MAT'L FEEDER (Fig. 6-9)
FEEDER DRAG STRAP ASSEMBLY (18020-073)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18009-014	1	BRACKET, DRAG STRAP MTG.
2	18009-029	1	BRACKET, DRAG STRAP PIVOT
3	18014-010	1	DRAG STRAP, FEEDER
4	-	2	SCREW, SKT HEAD, #10-24 X 1/2
5	-	2	SCREW, PAN HEAD, #6-32 X 1/4
6	99004-002	1	KNB, #10 SCREW

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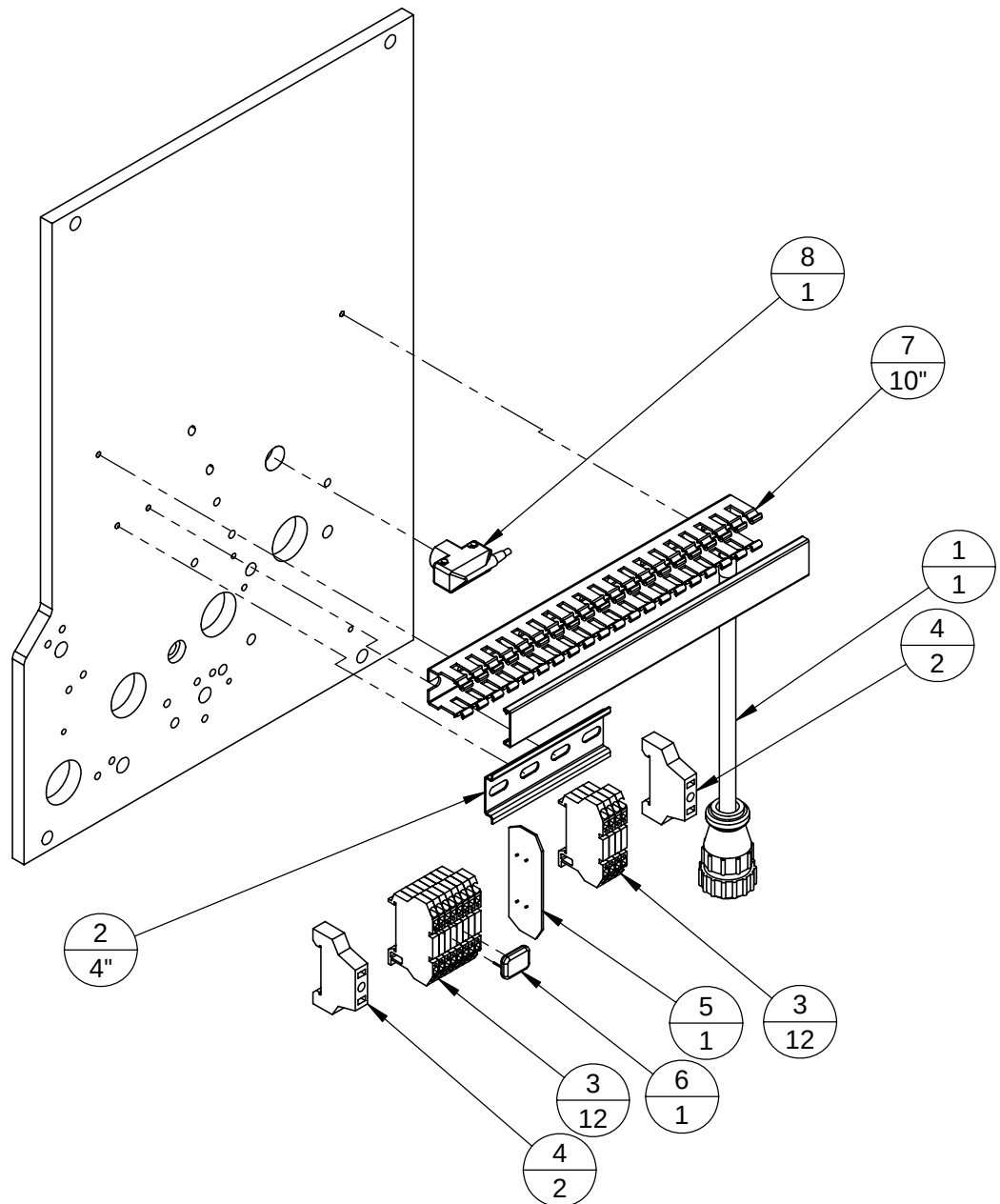


FRICITION FEEDER – ELECTRICAL (Fig. 6-10)
REAR FEEDER PLATE ASSEMBLY (18021-105)

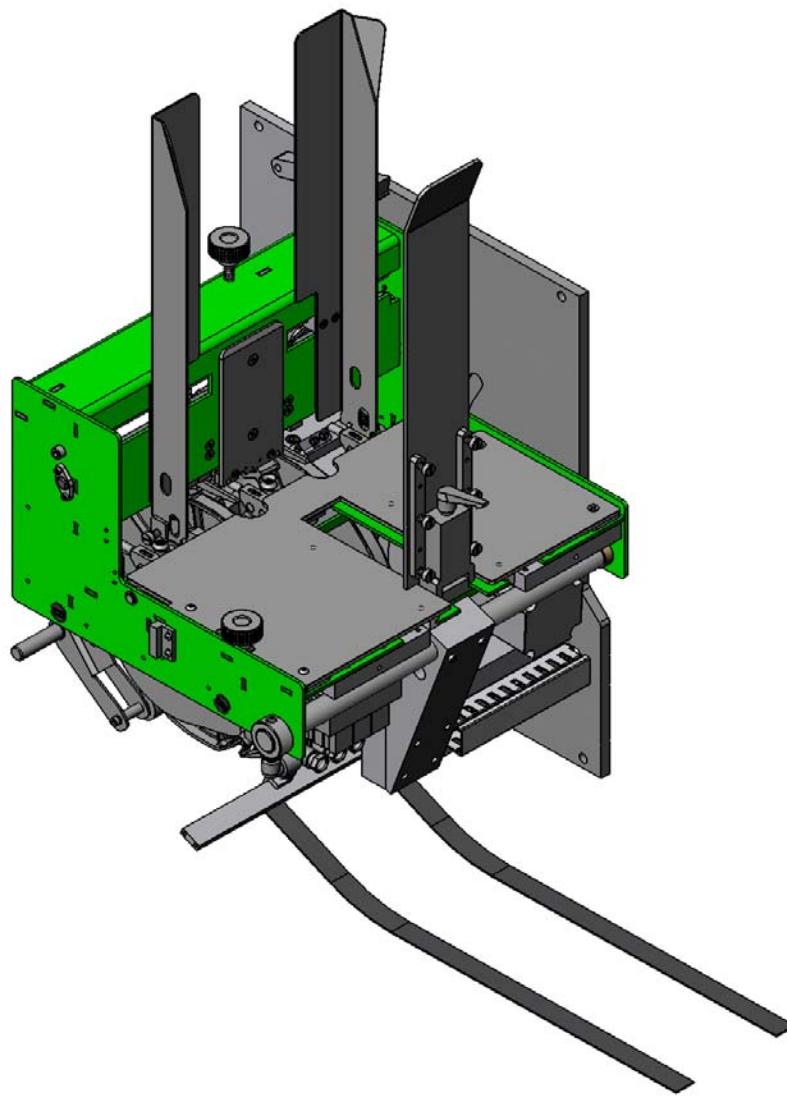
ITEM	PART NO.	QTY.	DESCRIPTION
1	18021-087	1	ASSEMBLY, PLUG, REAR FEEDER PLATE
2	98001-022	4"	DIN RAIL, PHOENIX
3	98001-010	12	TERMINAL BLOCK, SPRING, ENTRELEC
4	98001-014	2	TERMINAL BLOCK, END STOP, ENTRELEC
5	98001-026	1	CIRCUIT DIVIDER
6	98020-029	1	CAPACITOR, 60HZ
7	98012-004	10"	DUCT, 1" X 1" WIREWAY W/ COVER
8	98009-051	1	SENSOR, RETRO REFLECTIVE

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ROTARY FEEDER

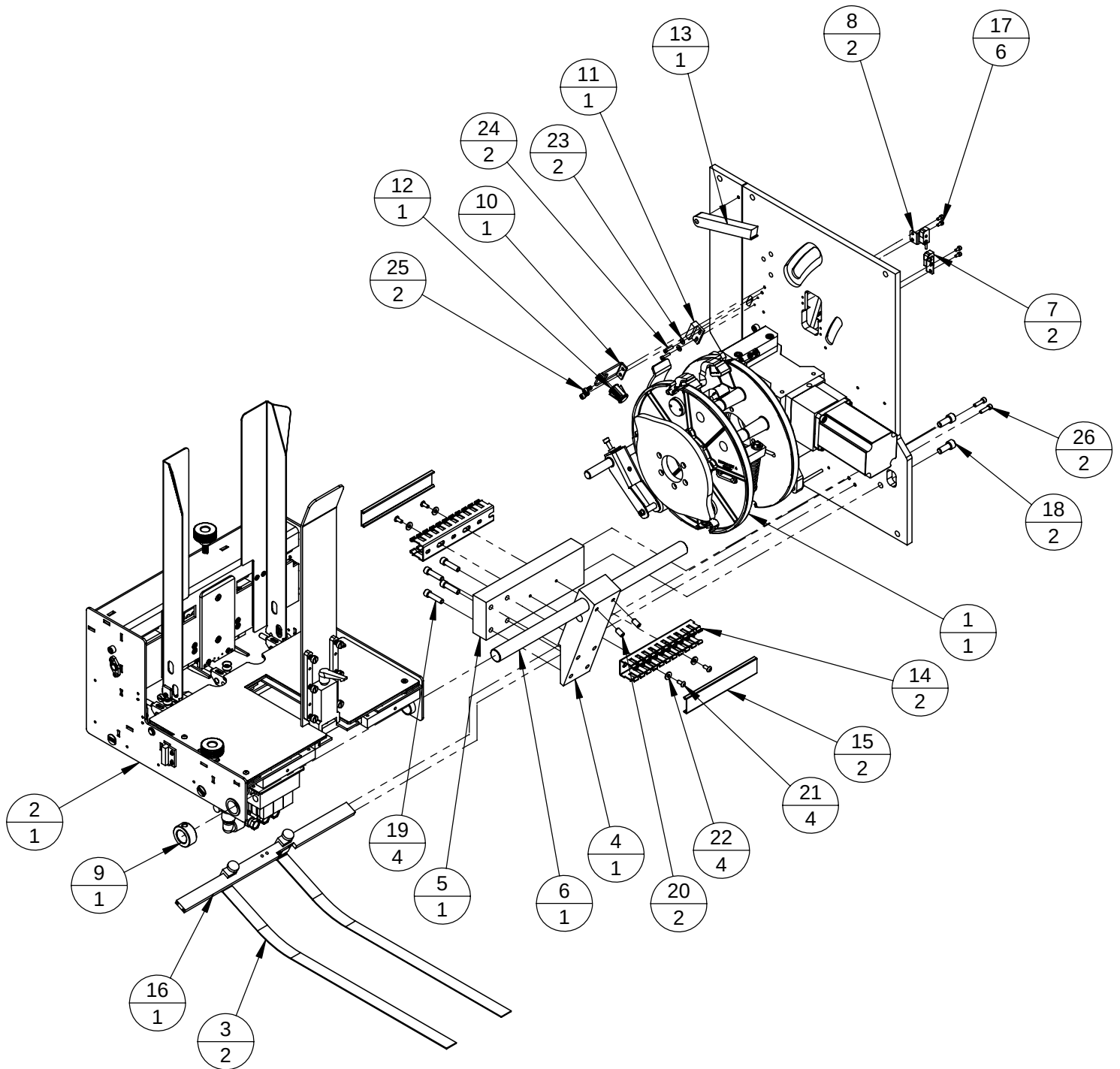


**ROTARY FEEDER ASSEMBLY (Fig. 7-1)
(18020-361)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 7-2	1	EXIT ROLLER / DOUBLE DETECT ASSEMBLIES
2	SEE FIG. 7-4, 7-5	1	ASSEMBLY, UPPER FRAME (18020-362)
3	SEE FIG. 7-8	2	ASSEMBLY, DRAG STRAP, 10X13 (18020-073)
4	18007-154	1	BLOCK, FRAME PIVOT MTG.
5	18007-156	1	BLOCK, FRAME PIVOT SUPPORT
6	18004-108	1	SHAFT, UPPER FRAME PIVOT
7	98009-029	2	SENSOR, SENDER, PHOTOELECTRIC
8	99018-006	2	BRACKET, SENSOR MTG.
9	99017-039	1	COLLAR, SHAFT, 3/4" B
10	18009-109	1	BRACKET, MAGNETIC MTG.
11	98000-036	1	REED SWITCH
12	99039-062	1	MAGNETIC CATCH
13	18008-154	1	BAR, FEEDER TILT
14	18019-040	2	WIREWAY, 1" X 1" X 5.25"
15	18019-041	2	COVER, WIREWAY, 1" X 5.25"
16	18008-013	1	BAR, SENSOR / DRAG STRAP MTG.
17	-	6	SCREW, SKT HEAD, M3 X 6
18	-	2	BOLT, SKT HEAD, 5/16-18 X 3/4
19	-	4	SCREW, SKT HEAD, 1/4-20 X 1
20	-	2	SET SCREW, CUP PT, 1/4-20 X 1/2
21	-	4	SCREW, BUTTON HEAD, #8-32 X 3/8
22	-	4	FLAT WASHER, #6
23	-	2	FLAT WASHER, 1/8
24	-	2	SCREW, SKT HEAD, #10-24 X 3/8
25	-	2	SCREW, SKT HEAD, #10-24 X 1/2
26	-	2	SCREW, SKT HEAD, #8-32 X 5/8

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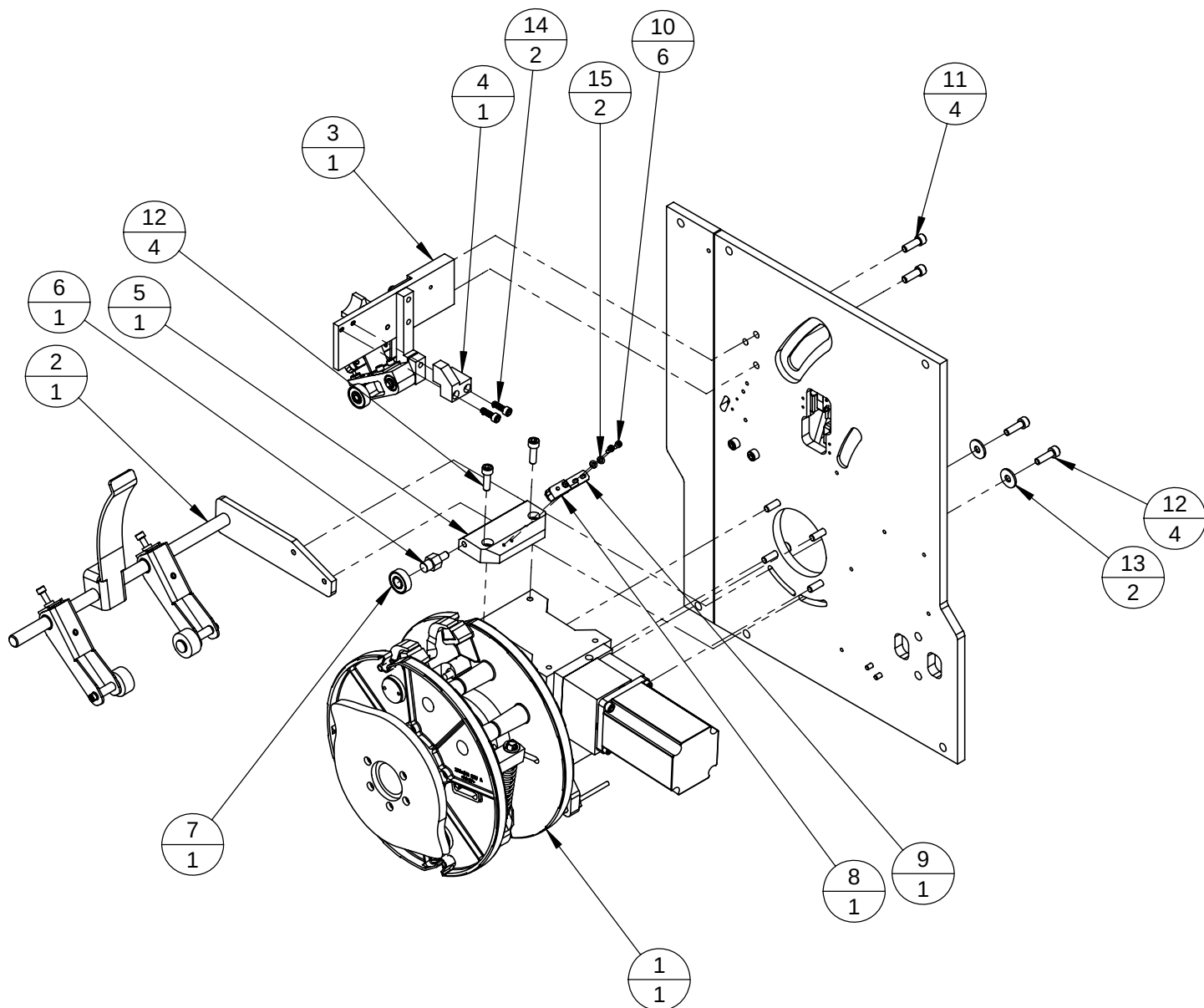


**ROTARY FEEDER ASSEMBLY (Fig. 7-2)
 (18020-361)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 7-3	1	DRUM / MOTOR ASSEMBLIES
2	SEE FIG. 7-8	1	ASSEMBLY, EXIT ROLLER (18020-363)
3	SEE FIG. 7-9	1	ASSEMBLY, DOUBLE DETECT (18020-364)
4	18007-158	1	BLOCK, UPPER FRAME STOP
5	18007-159	1	BLOCK, DOUBLE DETECT SUPPORT
6	18004-110	1	SHAFT, DOUBLE DETECT SUPPORT
7	99003-001	1	BEARING, SEALED, 3/8 X 7/8
8	98009-040	1	SENSOR, RECEIVER
9	18009-108	1	BRACKET, MISS SENSOR MTG.
10	-	6	SCREW, SKT HEAD, M3 X 6
11	-	4	SCREW, SKT HEAD, 1/4-20 X 3/4
12	-	4	SCREW, SKT HEAD, M6 X 20
13	-	2	WASHER, FLAT, M6
14	-	2	SCREW, SKT HEAD, #10-24 X 5/8
15	-	2	WASHR, FLAT, M3

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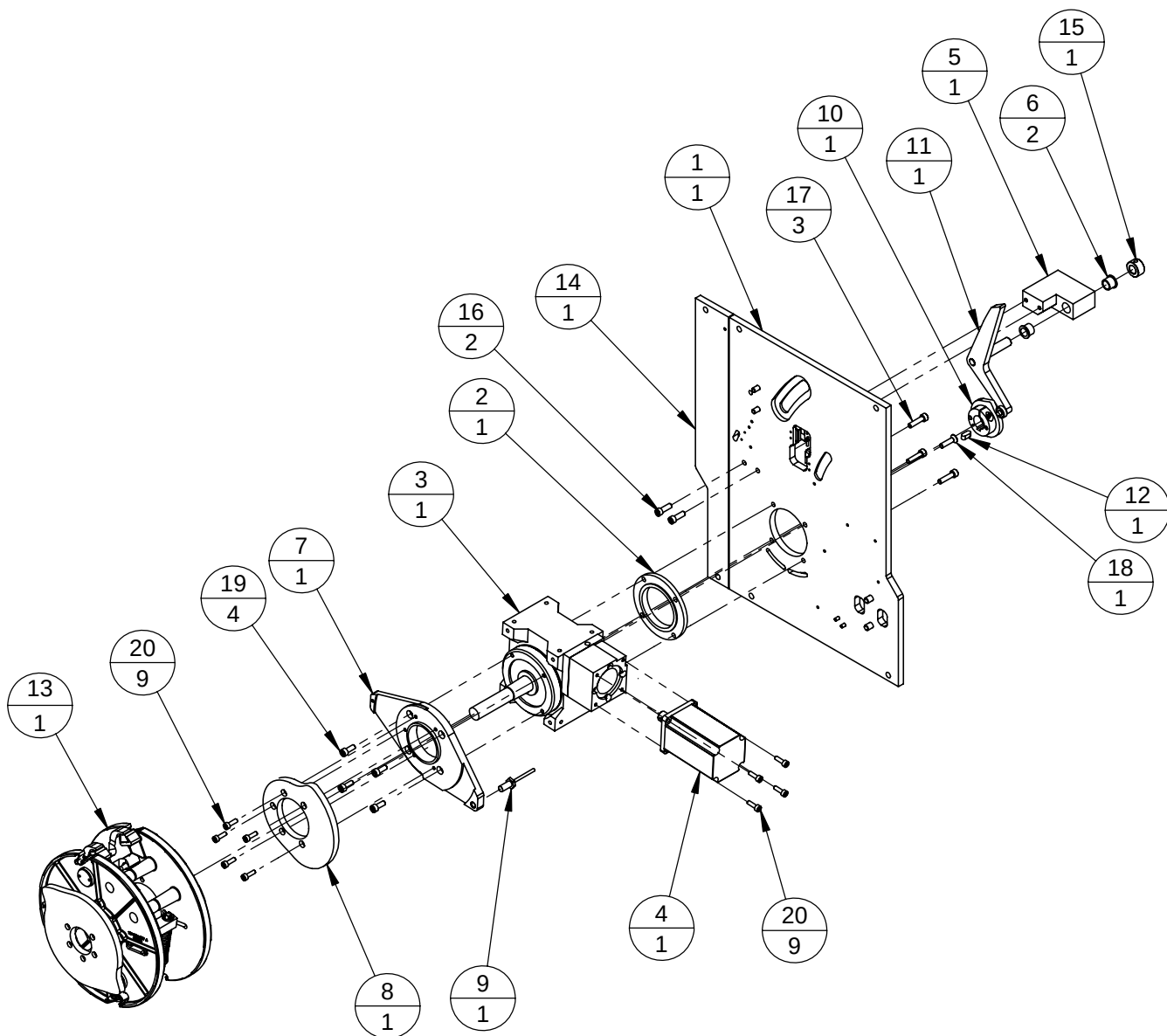


**ROTARY FEEDER ASSEMBLY (Fig. 7-3)
 (18020-361)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18011-136	1	PLATE, ROTARY FEEDER MTG.
2	18012-051	1	SPACER, GEARBOX
3	99015-006	1	REDUCER, ATEK, 19.5:1
4	99001-053	1	MOTOR, SERVO, 400W
5	18007-155	1	BLOCK, ARM PIVOT
6	99003-124	2	BUSHING, FL, 12MM X 15MM X 12MM
7	ZX00221	1	FLANGE, GEARBOX
8	ZX00237	1	CAM, GRIPPER
9	Y683036	1	SENSOR, PROXIMITY
10	ZX00128	1	ASSEMBLY, SEPERATOR FINGER CAM
11	ZX00272	1	ASSEMBLY, FINGER CAM ARM
12	158-0514	1	KEY, SQ, 6MM X 15MM ROUND END
13	ZX00501	1	ASSEMBLY, GRIPPER DRUM
14	18011-142	1	PLATE, FILLER, ROTARY AND 6X9
15	99017-054	1	COLLAR, SHAFT – SET SCREW, 12MM BORE
16	-	2	SCREW, SKT HEAD, 1/4-20 X 3/4
17	-	3	SCREW, SKT HEAD, M6 X 25
18	-	1	SCREW, FLAT HEAD, M6 X 25
19	-	4	SCREW, SKT HEAD, M6 X 16
20	-	9	SCREW, SKT HEAD, M5 X 16

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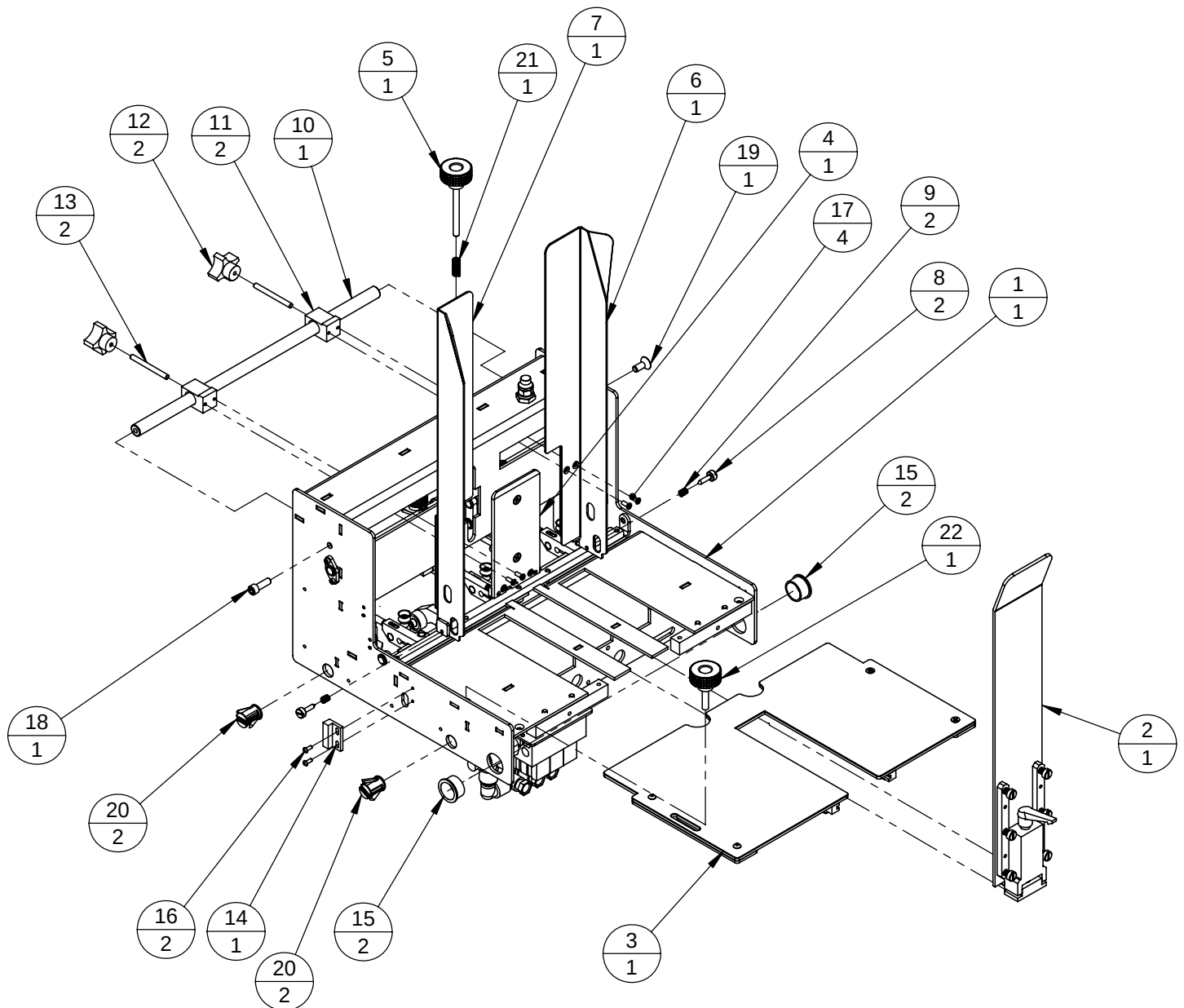


ROTARY FEEDER – (Fig. 7-4)
UPPER FRAME ASSEMBLY (18020-362)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18000-021	1	FRAME WELDMENT – UPPER
2	ZX00140	1	ASSEMBLY, BACK STOP
3	SEE FIG. 7-6	1	ASSEMBLY, DECK PLATE (18020-357)
4	ZX00145	1	ASSEMBLY, CENTER GATE
5	ZX00199	1	ASSEMBLY, KNOB, DECK HIEGHT
6	18005-182	1	SIDE GUIDE, RH
7	18005-183	1	SIDE GUIDE, LH
8	ZX0015	2	PIN, POINTED THUMBSCREW
9	212-5015	2	SPRING, COMPRESSION, 31 LB/IN
10	18004-109	1	SHAFT, SIDE GUIDE ADJUSTING
11	18007-157	2	BLOCK, SIDE GUIDE ADJUSTING
12	99004-005	2	KNOB, FEMALE, #10-32
13	99032-001	2	STUD, THREADED, #10-32 X 2
14	98000-036	1	REED SWITCH
15	99003-123	2	BUSHING, FL, 3/4 X 7/8 X 1/2
16	-	2	SCREW, BUTTON HEAD, M3 X 8
17	-	4	SCREW, FLAT HEAD, #6-32 X 3/8
18	-	1	SCREW, SKT HEAD, 1/4-20 X 3/4
19	-	1	SCREW, FLAT HEAD, 1/4-20 X 5/8
20	99039-062	2	MAGNETIC CATCH
21	212-5020	1	SPRING, COMPRESSION, 11LB/IN
22	19-0150	1	KNOB, KNURLED, M6 X 12

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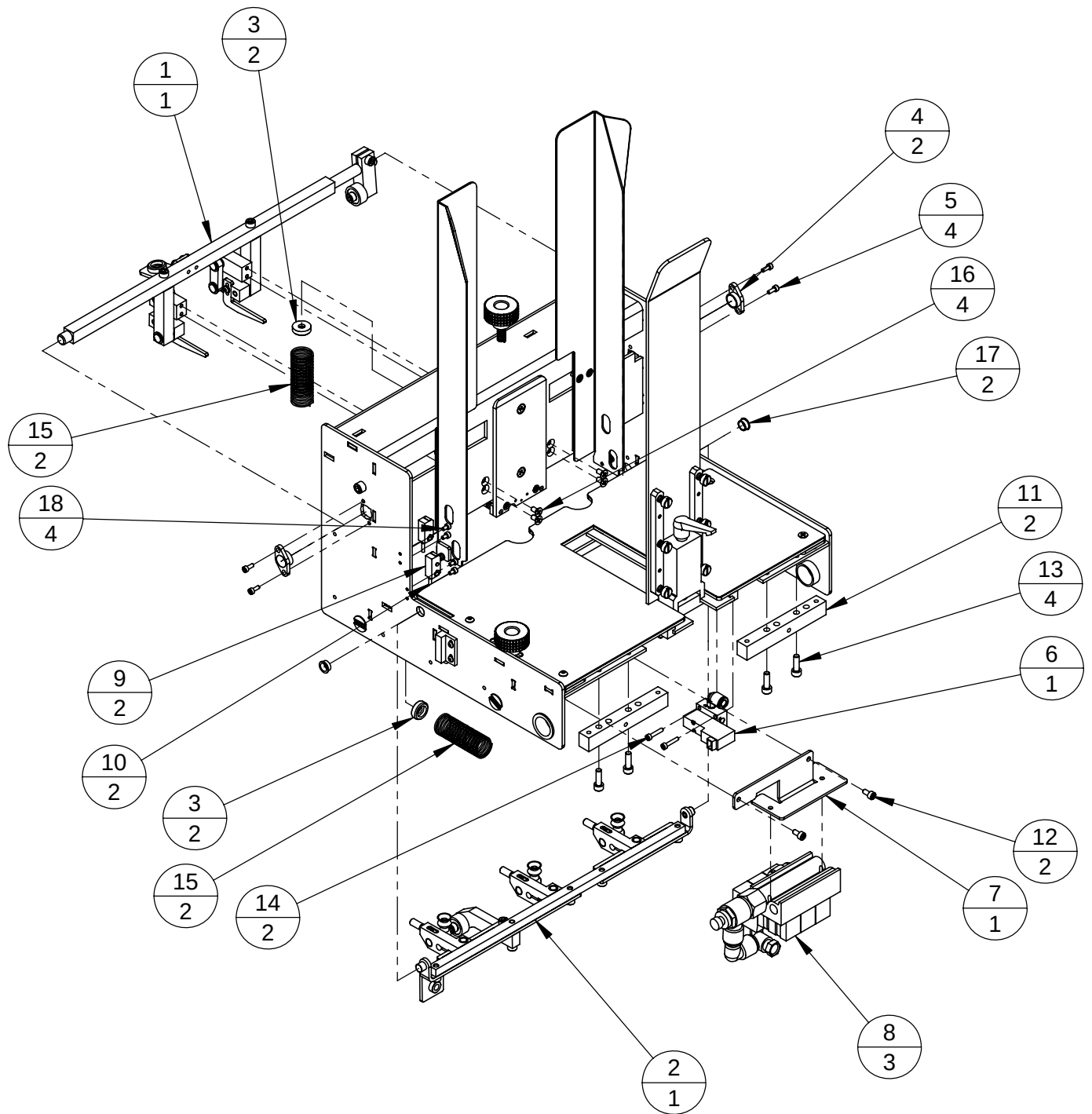


ROTARY FEEDER (Fig. 7-5)
UPPER FRAME ASSEMBLY (18020-362)

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 7-7	1	ASSEMBLY, SEPERATOR FINGER BAR (18020-358)
2	SEE FIG. 7-6	1	ASSEMBLY, SUCTION CUP BAR (18020-356)
3	ZX00163	2	GUIDE, SPRING
4	ZX00184	2	BEARING, FLANGED HOUSING
5	-	4	SCREW, SKT HEAD, M3 X 8
6	ZX00245	1	ASSY, VALVE, PACK AIR
7	ZX00258	1	BRACKET, VACUUM VALVE
8	ZX00243	3	ASSY, VACUUM VALVE
9	98009-040	2	SENSOR, RECEIVER
10	99018-006	2	BRACKET, SENSOR MTG.
11	18012-053	2	SPACER, COVER HINGE
12	-	2	SCREW, SKT HEAD, M4 X 8
13	-	4	SCREW, SKT HEAD, M5 X 16
14	-	2	SCREW, SKT HEAD, M3 X 16
15	212-5012	2	SPRING, COMPRESSION, 12 LB/IN
16	-	4	SCREW, FLAT HEAD, M4 X 8
17	175-0912	2	BEARING, CLIP, 8MM ID
18	-	4	SCREW, SKT HEAD, M3 X 5

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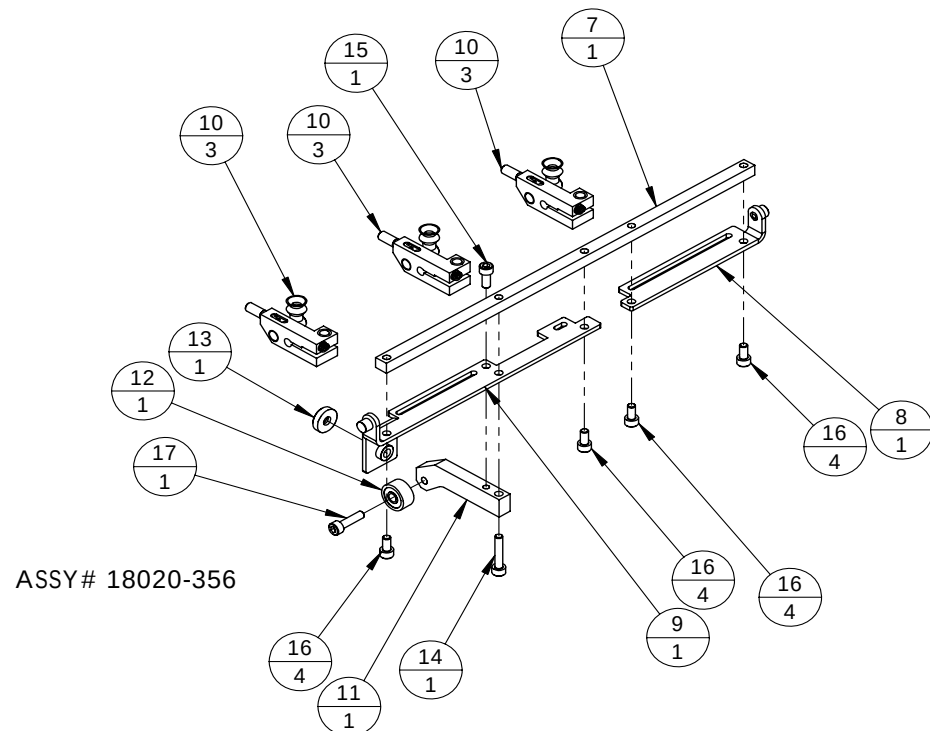
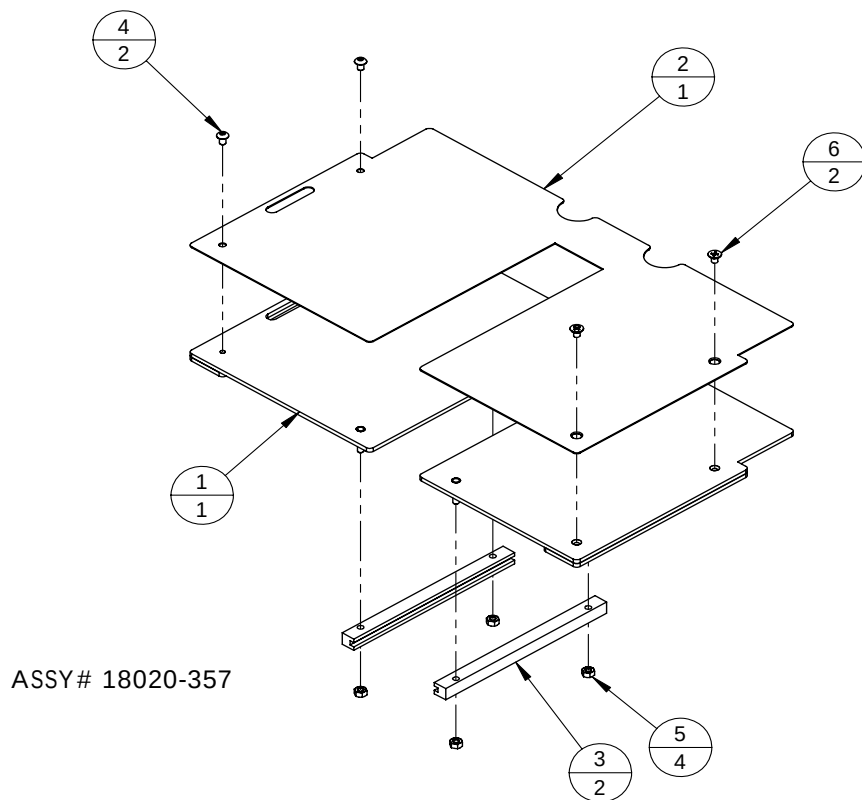


**ROTARY FEEDER – UPPER FRAME (Fig. 7-6)
 DECK PLATE / SUCTION CUP BAR ASSEMBLIES**

ITEM	PART NO.	QTY.	DESCRIPTION
	18020-357	1	ASSEMBLY, DECK PLATE
1	18011-137	1	DECK PLATE SUPPORT
2	18011-138	1	PLATE, DECK
3	ZX00115	2	GUIDE, SLIDER
4	-	2	SCREW, BUTTON HEAD, M4 X .07 X 6
5	-	4	NUT, HEX, M4 X .07
6	-	2	SCREW, FLAT HEAD, M4 X .07 X 6
	18020-356	1	ASSEMBLY, SUCTION CUP BAR
7	18008-152	1	BAR, SUCTION CUP PIVOT
8	18009-110	1	BRACKET, SUCTION CUP PIVOT, REAR
9	ZX00176	1	ASSY, BRACKET, SUCTION CUP FRONT
10	ZX00168	3	ASSY, SUCTION CUP
11	ZX00180	1	LEVER, SUCTION CAM
12	ZX00242	1	BEARING, CAM FOLLOWER, 3/4"
13	ZX00163	1	GUIDE, SPRING, FINGER DEVICE
14	-	1	SCREW, SKT HEAD, M5 X 0.8 X 25
15	-	1	SCREW, SKT HEAD, M5 X 0.8 X 12
16	-	4	SCREW, SKT HEAD, M5 X 0.8 X 10
17	-	1	SCREW, SKT HEAD, M5 X 0.8 X 20

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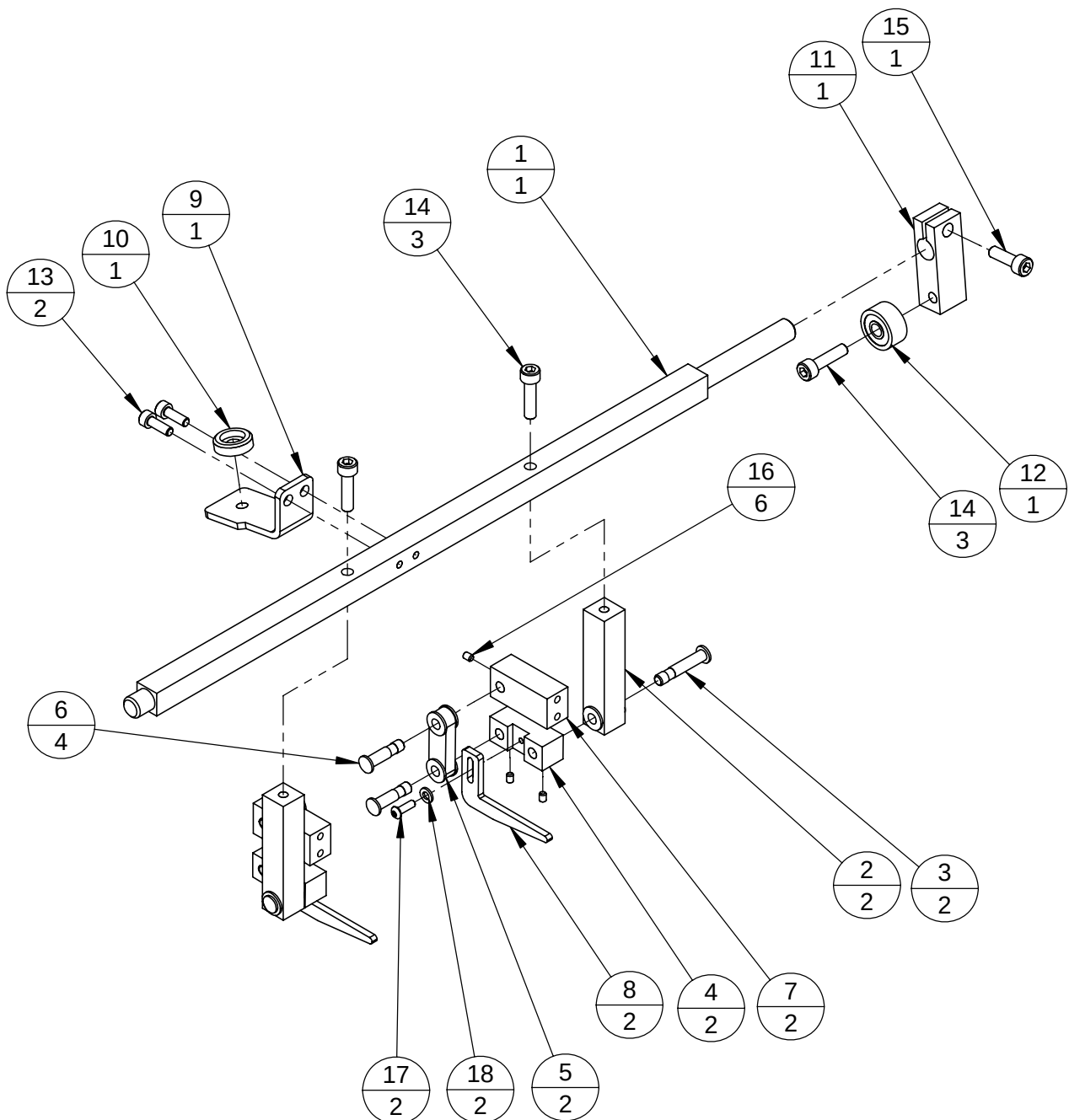


**ROTARY FEEDER – UPPER FRAME (Fig. 7-7)
 SEPERATOR FINGER BAR ASSEMBLY (18020-358)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18004-111	1	SHAFT, SEPERATOR FINGER
2	ZX00158	2	ASSY, CRANK ARM
3	ZX00160	2	PIN, FINGER PIVOT, LONG
4	ZX00156	2	CLAMP, FINGER
5	ZX00159	2	ASSY, ARM, LINK FINGER
6	ZX00161	4	PIN, FINGER PIVOT, SHORT
7	ZX00155	2	BLOCK, SUPPORT, FINGER
8	ZX00157	2	FINGER, PRESSURE RELIEF
9	ZX00162	1	BRACKET, SPRING FINGER DEVICE
10	ZX00163	1	GUIDE, SPRING, FINGER DEVICE
11	ZX00164	1	CLAMP, FINGER FOLLOWER
12	ZX00242	1	BEARING, CAM FOLLOWER, 3/4"
13	-	2	SCREW, SKT HEAD, M4 X 12
14	-	3	SCREW, SKT HEAD, M5 X 0.8 X 20
15	-	1	SCREW, SKT HEAD, M5 X 0.8 X 16
16	-	6	SET SCREW, FLAT, M3 X 0.5 X 4
17	-	2	SCREW, BUTTON HEAD, M3 X 0.5 X 10
18	-	2	WASHER, FLAT, M3

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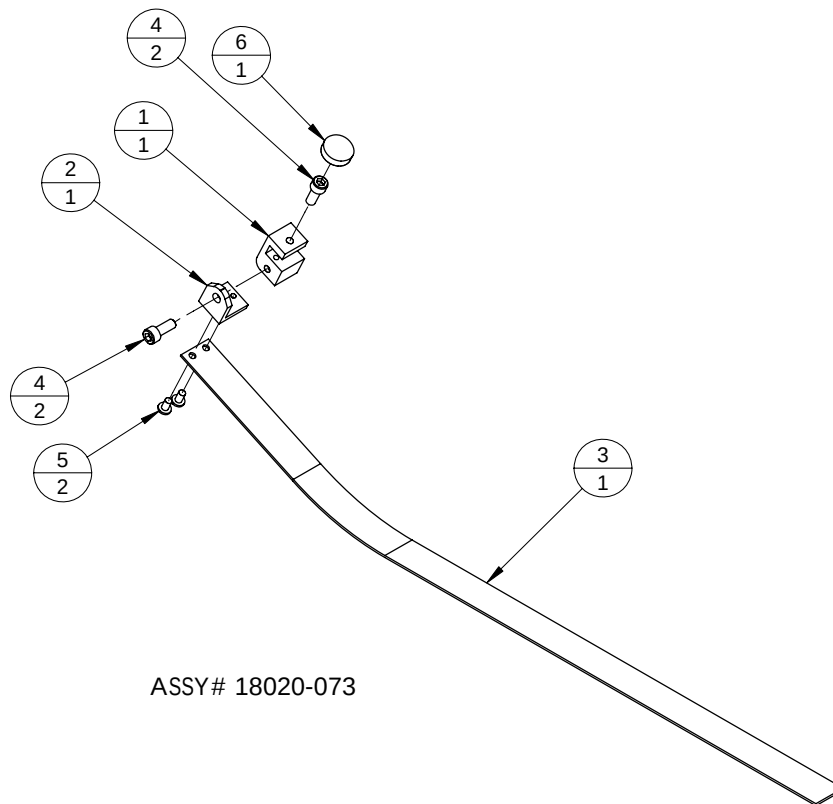


**ROTARY FEEDER (Fig. 7-8)
 EXIT ROLLER / DRAG STRAP ASSEMBLIES**

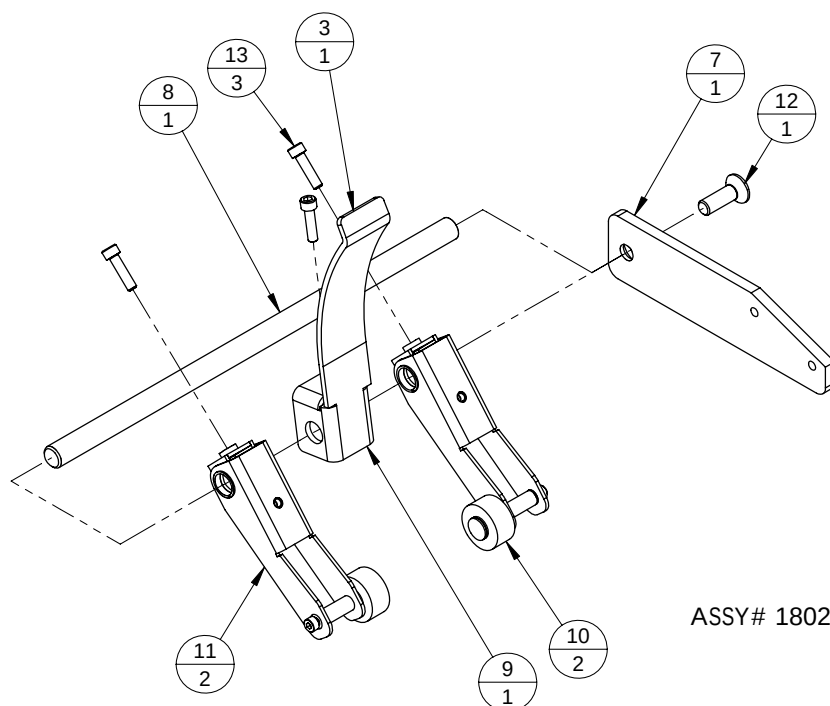
ITEM	PART NO.	QTY.	DESCRIPTION
	18020-073	2	ASSEMBLY, DRAG STRAP
1	18009-014	1	BRACKET, DRAG STRAP MTG.
2	18009-029	1	BRACKET, DRAG STRAP PIVOT
3	18014-010	1	DRAG STRAP, FEEDER
4	-	2	SCREW, SKT HEAD, #10-24 X 1/2
5	-	2	SCREW, PAN HEAD, #6-32 X 1/4
6	99004-002	1	KNOB, #10 SCREW
	18020-363	1	ASSEMBLY, EXIT ROLLER
7	18008-153	1	BAR, DISCHARGE ROLLER SUPPORT
8	ZX00259	1	SHAFT, EXIT ROLLER SUPPORT
9	ZX00188	1	ASSY, GUIDE
10	ZX00193	1	ASSY, RH ROLLER
11	ZX00194	1	ASSY, LH ROLLER
12	-	1	SCREW, FLAT HEAD, M8 X 1.25 X 25
13	-	3	SCREW, SKT HEAD, #10-24 X 3/4

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ASSY# 18020-073



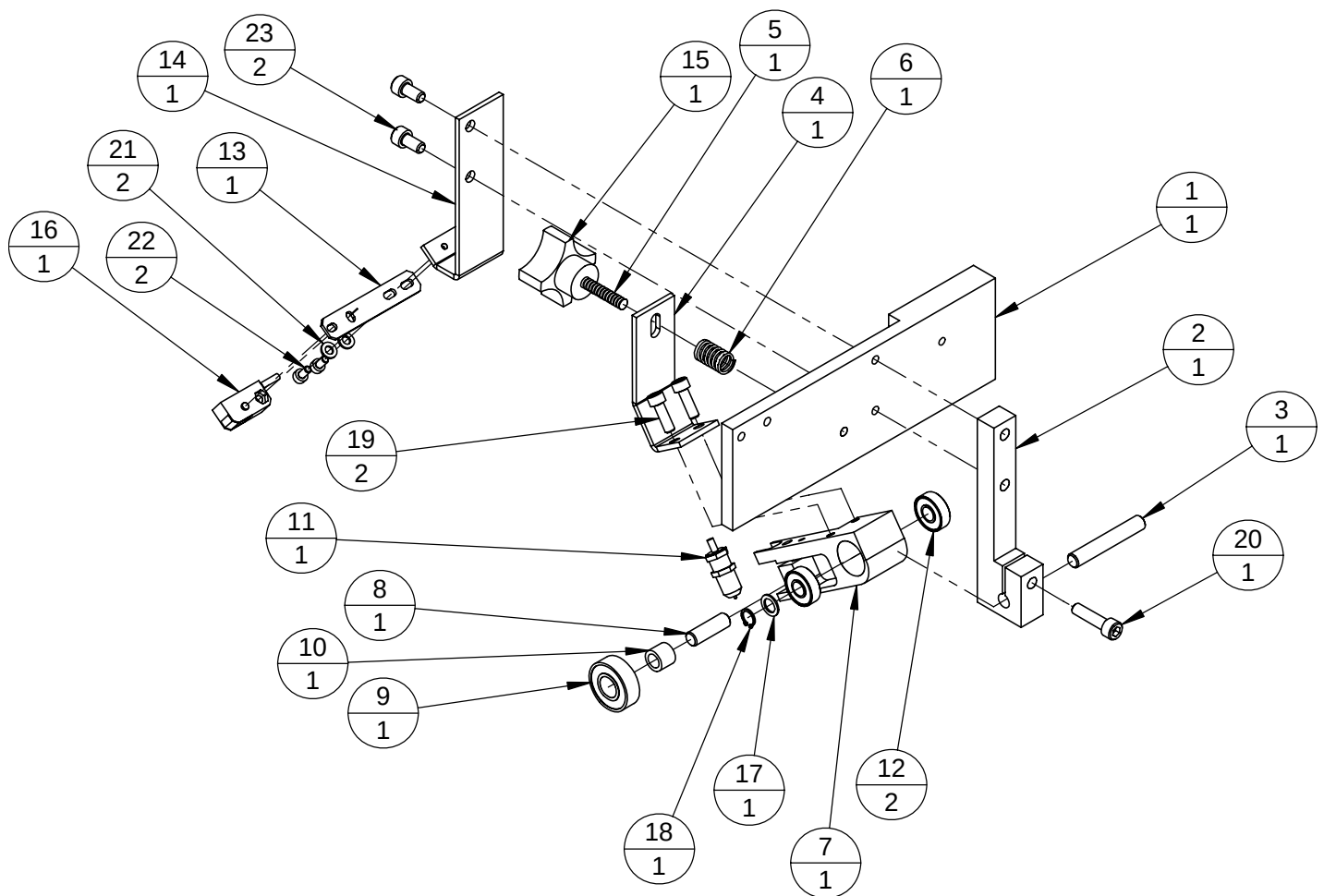
ASSY# 18020-363

**ROTARY FEEDER (Fig. 7-9)
DOUBLE DETECT ASSEMBLY (18020-364)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	18008-151	1	BAR, FEEDER STOP
2	18007-160	1	BLOCK, DOUBLE DETECT PIVOT
3	10004-052	1	SHAFT, DOUBLE DETECT PIVOT
4	18009-103	1	BRACKET, DOUBLE DETECT ADJUSTING
5	99032-003	1	STUD, #10-32 X 1-1/2
6	99005-007	1	SPRING, COMPRESSION, DOUBLE DETECT
7	16009-079	1	BRACKET, TUNING FORK, LH
8	10004-053	1	SHAFT, DOUBLE DETECT
9	99003-001	1	BEARING, SEALED, 3/8 X 7/8
10	99003-005	1	BUSHING, SLEEVE, 1/4 X 3/8 X 5/16
11	98009-004	1	SENSOR, DOUBLE DETECT SWITCH
12	99003-002	2	BEARING, SEALED, 1/4 X 5/8
13	18009-108	1	BRACKET, MISS SENSOR MTG.
14	18009-107	1	BRACKET, MISS SENSOR SUPPORT
15	99004-005	1	KNOB, FEMALE, #10-32
16	98009-050	1	SENSOR, SHORT RANGE EMITTER
17	99003-034	1	WASHER, NYLON, 1/2 X 1/16
18	99022-001	1	SNAP RING, 1/4
19	-	2	SCREW, SKT HEAD, #8-32 X 1/2
20	-	1	SCREW, SKT HEAD, #10-24 X 3/4
21	-	2	WASHER, FLAT, 3MM
22	-	2	SCREW, SKT HEAD, M3 X 0.5 X 6
23	-	2	SCREW, SKT HEAD, #10-24 X 3/8

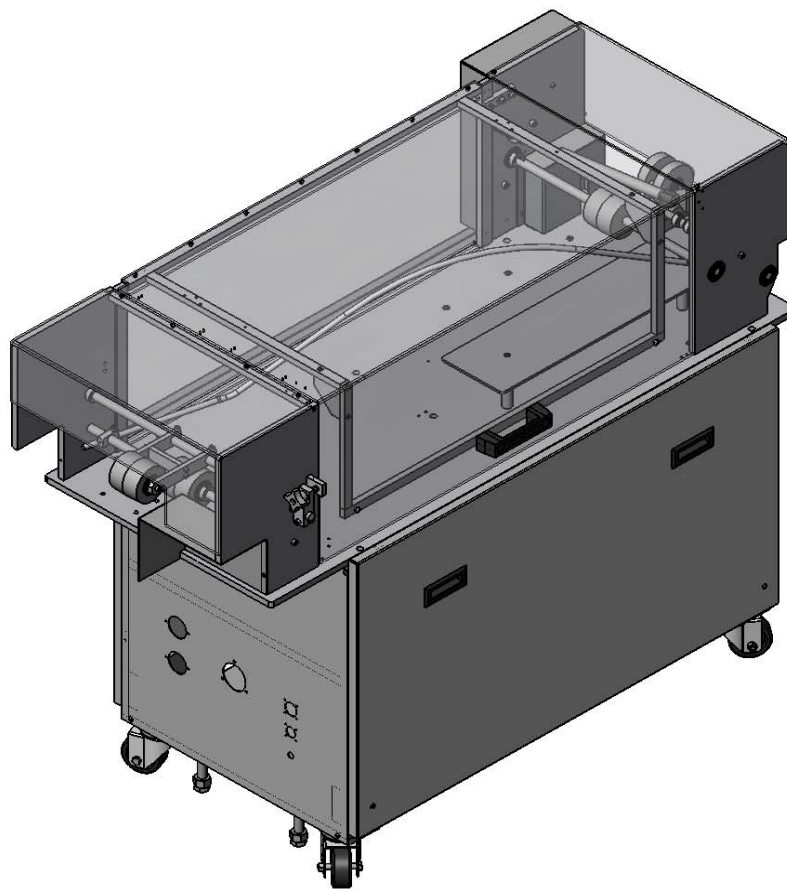
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TURNOVER ***10X13***

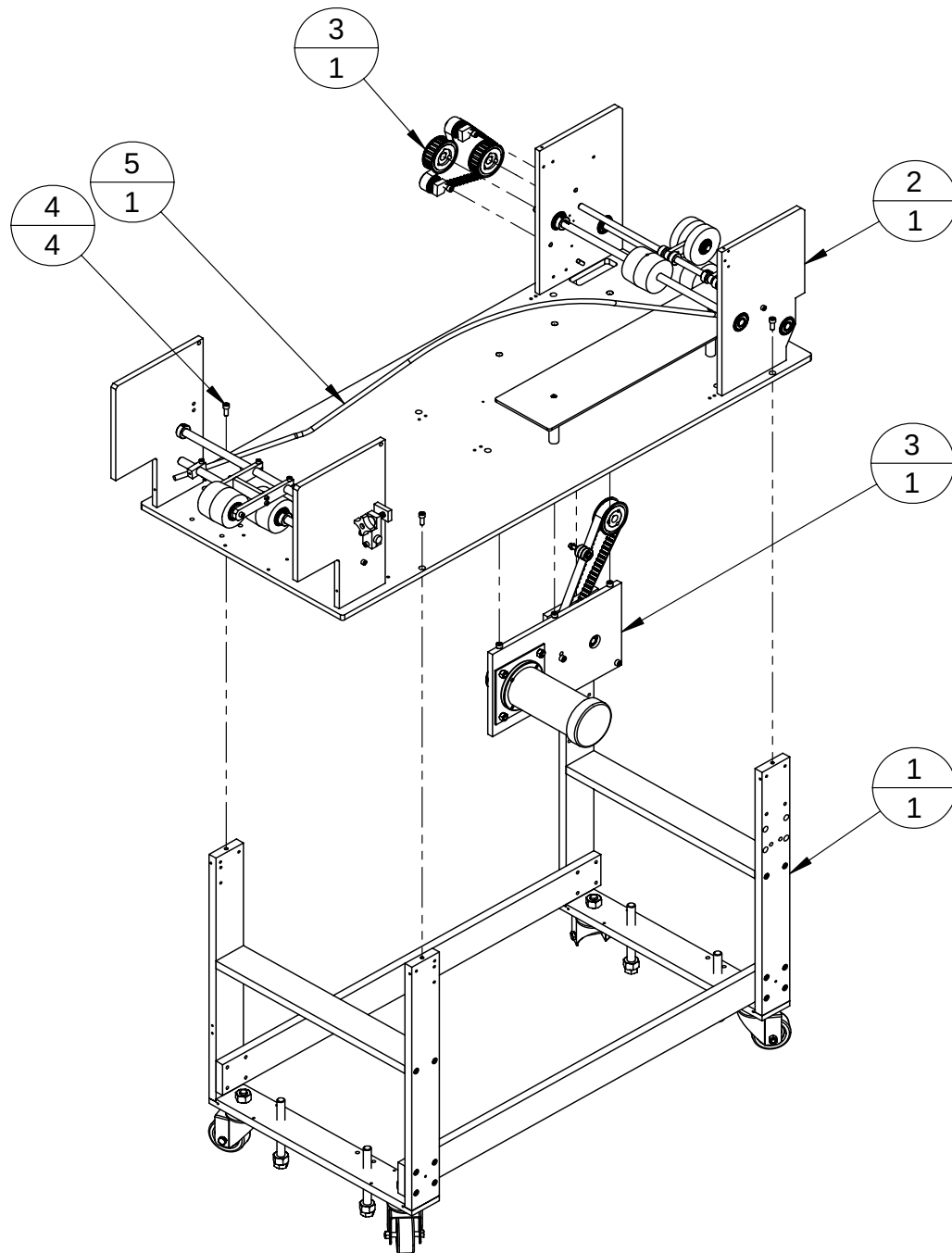


**TURNOVER ASSEMBLY (Fig. 8-1)
(20022-006)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 8-2	1	ASSEMBLY, FRAME (22020-002)
2	SEE FIG. 8-3	1	ASSEMBLY, TRANSPORT (20020-014)
3	SEE FIG. 8-6	1	ASSEMBLY, DC DRIVE (20020-039)
4	-	4	BOLT, SKT HEAD, 5/16-18 X 3/4
5	20005-001	1	GUIDE, ENVELOPE TWIST
6	SEE FIG. 8-8, 8-9	1	ASSEMBLY, COVERS (20020-018) (NOT SHOWN)

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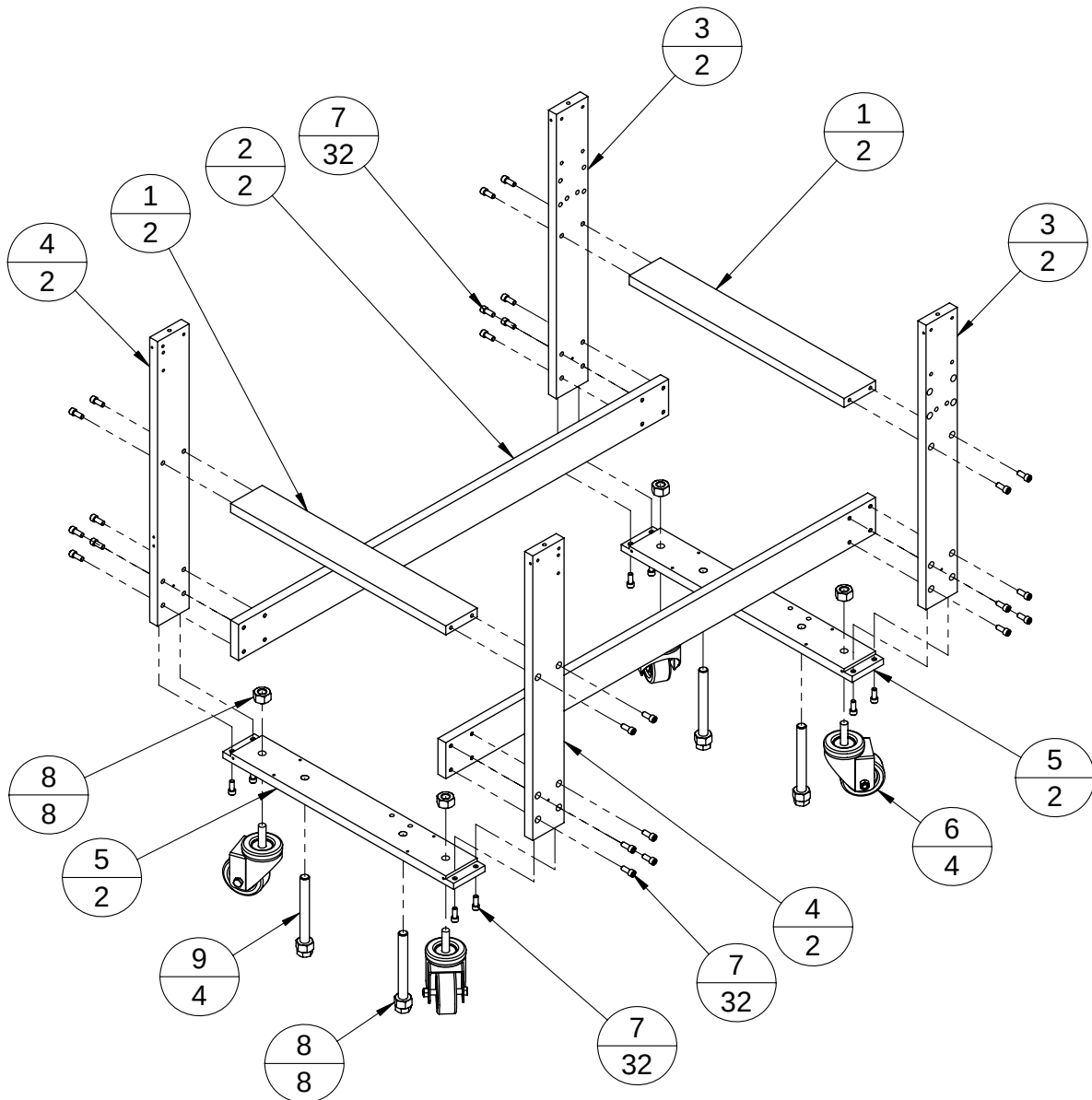


TURNOVER (Fig. 8-2)
FRAME ASSEMBLY (20020-002)

ITEM	PART NO.	QTY.	DESCRIPTION
1	20003-005	2	CROSSBAR, UPPER
2	20003-003	2	CROSSBAR, SIDE
3	20010-001	2	LEG, DISCHARGE
4	20010-002	2	LEG, INFEED
5	20003-004	2	CROSS BRACE, LOWER
6	99010-005	4	CASTOR, 5/8-11 STEM
7	-	32	BOLT, SKT HEAD, 5/16-18 X 3/4
8	-	8	NUT, HEX, 5/8-11
9	-	4	BOLT, HEX HEAD, 5/8-11 X 6

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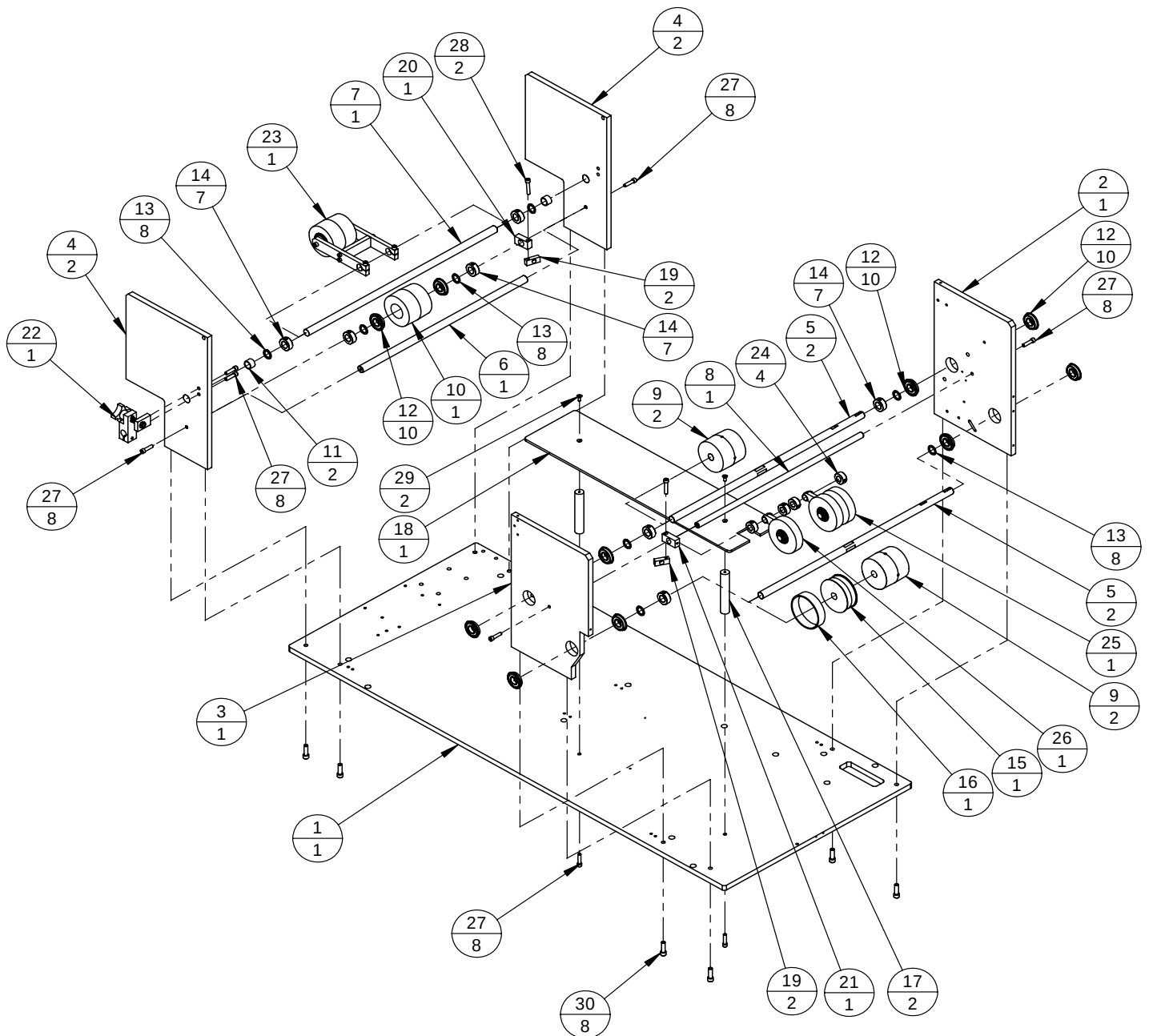
TURNOVER (Fig. 8-3)
TRANSPORT ASSEMBLY (20020-014)

ITEM	PART NO.	QTY.	DESCRIPTION
1	20001-002	1	PLATE, TURNOVER DECK
2	20000-006	1	SIDEFRAME, LH DISCHARGE
3	20000-005	1	SIDEFRAME, RH DISCHARGE
4	20000-004	2	SIDEFRAME, INFEED
5	20004-012	2	SHAFT, SECONDARY
6	20004-009	1	SHAFT, IDLER, LONG
7	20004-010	1	SHAFT, IDLER, SHORT
8	20004-011	1	SHAFT, NIP PIVOT
9	20006-002	2	ROLLER, CROWNED DRIVE
10	20006-001	1	ROLLER, CROWNED IDLER
11	99003-029	2	BUSHING, SL, 5/8 X 3/4 X 1/2
12	99003-006	10	BEARING, 5/8 X 1-3/8, SEALED W/ S.R.
13	99003-021	8	WASHER, NYLON, 5/8 X 1/16
14	99017-005	7	COLLAR, 5/8 SHAFT
15	12006-001	1	PULLEY, 3" CROWNED X 1" WIDE
16	10014-001	1	BELT, URETHANE
17	18012-013	2	STANDOFF, SKID PLATE
18	20011-003	1	PLATE, SKID
19	20009-004	2	BRACKET, TURNOVER GUIDE MTG, 3/8"
20	20009-002	1	BRACKET, TURNOVER GUIDE MTG, 5/8"
21	20009-003	1	BRACKET, TURNOVER GUIDE MTG, 1/2"
22	SEE FIG. 8-4	1	ASSEMBLY, SHAFT ADJ. (20020-003)
23	SEE FIG. 8-5	1	ASSEMBLY, IDLER ROLLER (20020-004)
24	99017-004	4	COLLAR, 1/2
25	SEE FIG. 8-5	1	ASSEMBLY, EXIT ROLLER (DOUBLE) (20020-005)
26	SEE FIG. 8-5	1	ASSEMBLY, EXIT ROLLER (SINGLE) (20020-010)
27	-	8	BOLT, SKT HEAD, 1/4-20 X 1
28	-	2	BOLT, SKT HEAD, 1/4-20 X 1.25
29	-	2	SCREW, FLAT HEAD, #10-24 X 1/2
30	-	8	BOLT, SKT HEAD, 5/16-18 X 1
31	99000-038	1	BELT, TURNOVER, 111.6" LONG (NOT SHOWN)
32	99000-039	1	BELT, TURNOVER, 91.65" LONG (NOT SHOWN)

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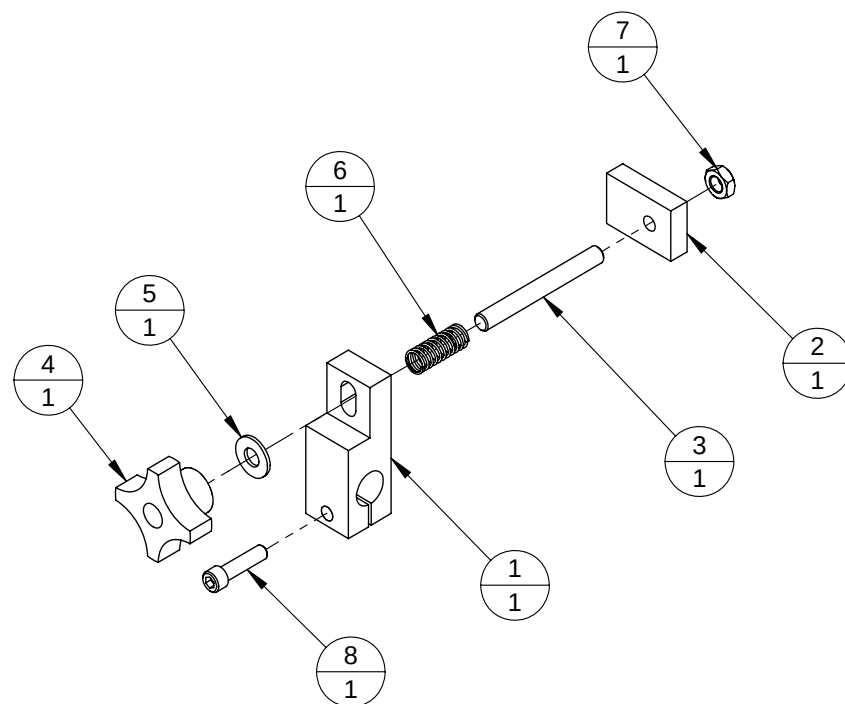


TURNOVER (Fig. 8-4)
SHAFT ADJ. ASSEMBLY (20020-003)

ITEM	PART NO.	QTY.	DESCRIPTION
1	20007-002	1	BLOCK, SHAFT CLAMP
2	20007-001	1	BLOCK, SHAFT ADJ
3	10004-028	1	STUD, SEPERATOR ADJ.
4	99004-001	1	KNOB, 5/16-24 FEMALE
5	99003-015	1	WASHER, NYLON, 5/16 X 1/16
6	10019-001	1	SPRING, SEPERATOR
7	-	1	NUT, HEX, 5/16-24
8	-	1	SCREW, SKT HEAD, 1/4-20 X 1

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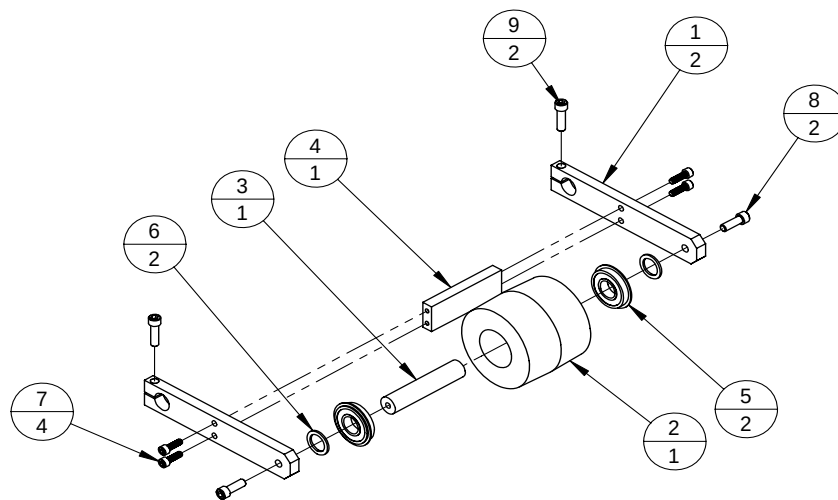


**TURNOVER (Fig. 8-5)
 ROLLER ASSEMBLIES**

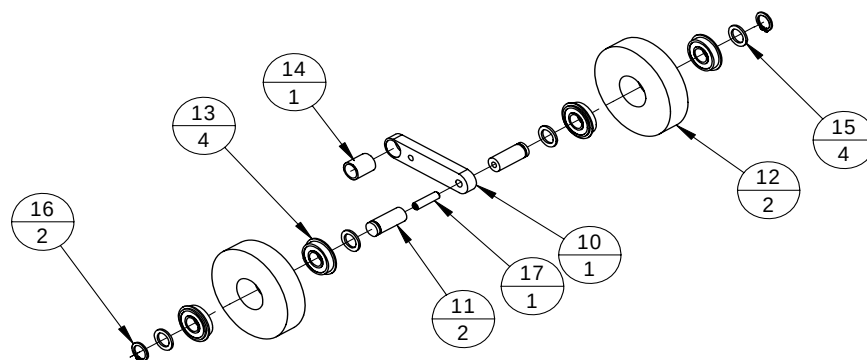
ITEM	PART NO.	QTY.	DESCRIPTION
	20020-004	1	ASSEMBLY, IDLER ROLLER
1	20008-001	2	BAR, IDLER ROLLER MTG.
2	20006-001	1	ROLLER, CROWNED IDLER
3	20004-001	1	SHAFT, IDLER, SHORT
4	20012-002	1	SPACER, IDLER SUPPORT
5	99003-006	2	BEARING, 5/8 X 1-3/8, SEALED W/ S.R.
6	99003-021	2	WASHER, NYLON, 5/8 X 1/16
7	-	4	SCREW, SKT HEAD, #10-24 X 5/8
8	-	2	BOLT, SKT HEAD, 1/4-20 X 3/4
9	-	2	BOLT, SKT HEAD, 1/4-20 X 7/8
	20020-005	1	ASSEMBLY, EXIT ROLLER (DOUBLE)
10	20008-002	1	BAR, EXIT ROLLER
11	20004-005	2	SHAFT, EXIT ROLLER
12	20006-003	2	ROLLER, EXIT
13	99003-007	4	BEARING, 1/2 X 1-1/8, SEALED W/ S.R.
14	99003-038	1	BUSHING, SLEEVE, 1/2 X 5/8 X 3/4
15	99003-018	4	WASHER, NYLON, 1/2 X 1/16
16	99022-004	2	SNAP RING, 1/2
17	-	1	SET SCREW, 1/4-20 X 1
	20020-010	1	ASSEMBLY, EXIT ROLLER (SINGLE)
18	20008-002	1	BAR, EXIT ROLLER
19	20004-005	1	SHAFT, EXIT ROLLER
20	20006-003	1	ROLLER, EXIT
21	99003-007	2	BEARING, 1/2 X 1-1/8, SEALED W/ S.R.
22	99003-038	1	BUSHING, SLEEVE, 1/2 X 5/8 X 3/4
23	99003-018	2	WASHER, NYLON, 1/2 X 1/16
24	99022-004	1	SNAP RING, 1/2
25	-	1	BOLT, SKT HEAD, 1/4-20 X 5/8

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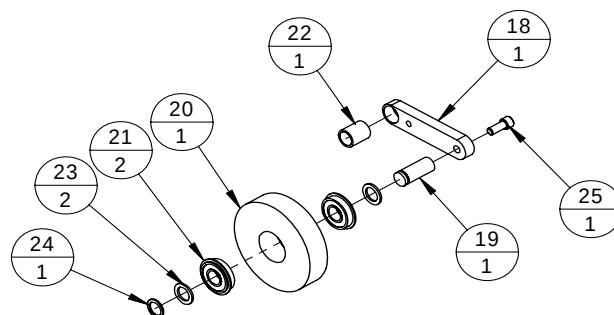
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ASSY# 22020-004



ASSY# 22020-005



ASSY# 22020-010

TURNOVER (Fig. 8-6)
DC DRIVE ASSEMBLY (20020-039)

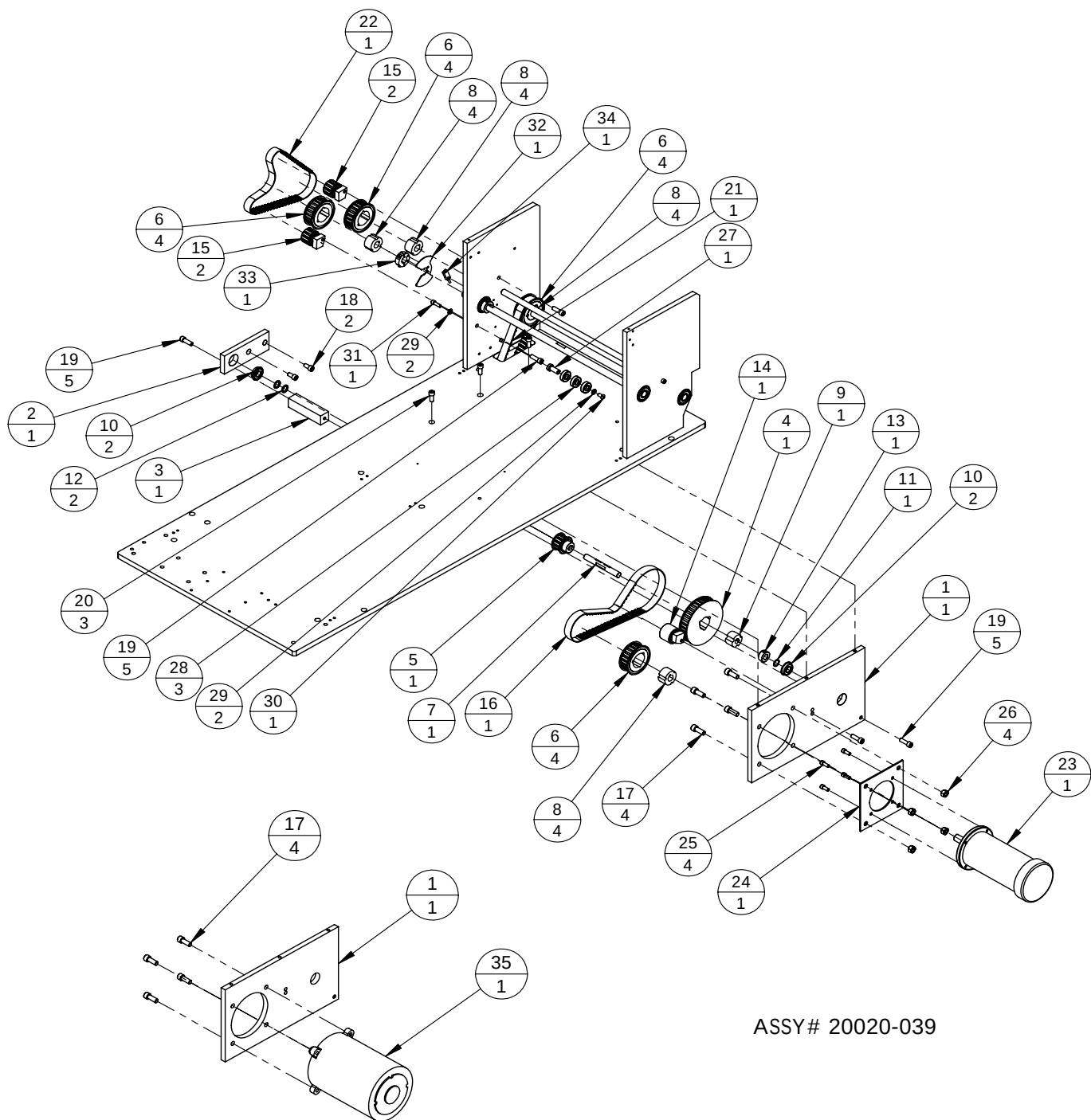
ITEM	PART NO.	QTY.	DESCRIPTION
1	20011-001	1	PLATE, MOTOR MTG.
2	20011-002	1	PLATE, INTERMEDIATE SHAFT
3	20012-004	1	STANDOFF, MOTOR SUPPORT
4	99002-065	1	PULLEY, TIMING, 36L075 (1610 TAPERLOCK)
5	99002-059	1	PULLEY, TIMNG, 12L075, 1/2B W/ KEYWAY
6	99002-035	4	PULLEY, TIMING, 22L075 (1008 TAPERLOCK)
7	20004-008	1	SHAFT, INTERMEDIATE
8	99017-019	4	BUSHING, TAPERLOCK, 1008, 5/8B
9	99017-026	1	BUSHING, TAPERLOCK, 1610, 1/2B
10	99003-007	2	BEARING, 1/2 X 1-1/8, SEALED W/ S.R.
11	99003-032	1	WASHER, NYLON, 1/2 X 1/32
12	99003-018	2	WASHER, NYLON, 1/2 X 1/16
13	99017-004	1	COLLAR, 1/2
14	SEE FIG. 8-7	1	ASSEMBLY, TENSIONER (W/ ROLLER) (20020-006)
15	SEE FIG. 8-7	2	ASSEMBLY, TENSIONER (W/ PULLEY) (20020-007)
16	99000-157	1	BELT, TIMING, 285L075
17	-	4	BOLT, SKT HEAD, 3/8-16 X 1
18	-	2	BOLT, SKT HEAD, 5/16-18 X 5/8
19	-	5	BOLT, SKT HEAD, 5/16-18 X 1
20	-	3	BOLT, SKT HEAD, 5/16-18 X 3/4
21	99000-028	1	BELT, TIMNG, 255L075
22	99000-034	1	BELT, TIMING, D240L075

TURNOVER (Fig. 8-6)
DC DRIVE ASSEMBLY (20020-039)

ITEM	PART NO.	QTY.	DESCRIPTION
23	99001-019	1	MOTOR, DC, 1/4 HP
24	20011-005	1	PLATE, MOTOR ADAPTOR
25	-	4	BOLT, SKT HEAD, 1/4-20 X 5/8
26	-	4	NUT, HEX, 3/8-16
27	20004-024	1	STUD, TENSIONER
28	99003-062	3	BEARING, SEALED, 10X26X8 MM
29	-	2	WASHER, FLAT, 1/4
30	-	1	BOLT, BUTTON HEAD, 1/4-20 X 1/2
31	-	1	BOLT, SKT HEAD, 1/4-20 X 3/4
32	20011-014	1	PLATE, SENSOR FLAG
33	20019-001	1	COLLAR, FLAG MTG.
34	98009-028	1	SENSOR, PROXIMITY
	20020-040	1	ASSEMBLY, AC DRIVE
35	99001-004	1	MOTOR, AC, 1/4 HP, 56C

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ASSY# 20020-039

ASSY# 20020-040

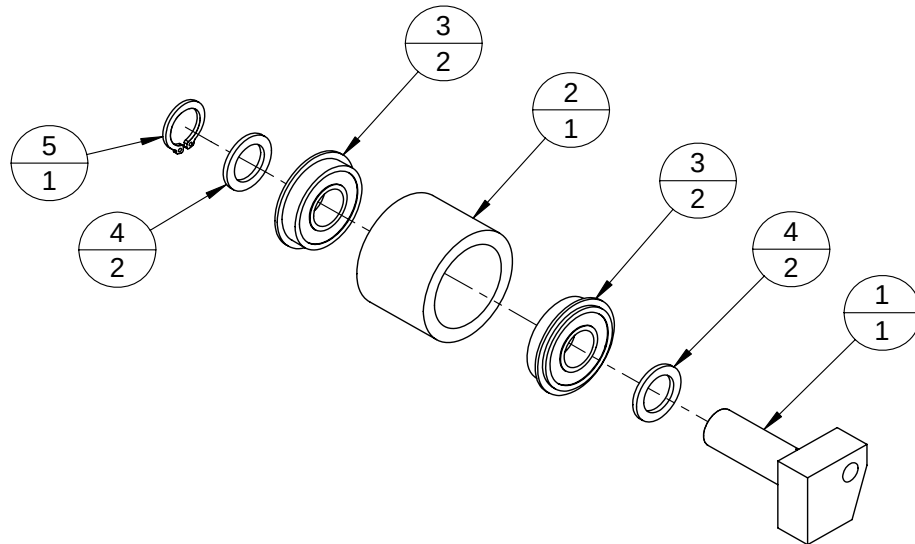
NOTE: AC DRIVE SYSTEM (20020-040) HAS ITEM #35 IN PLACE ON ITEM # 23 AND #24

**TURNOVER (Fig. 8-7)
 TENSIONER ASSEMBLIES**

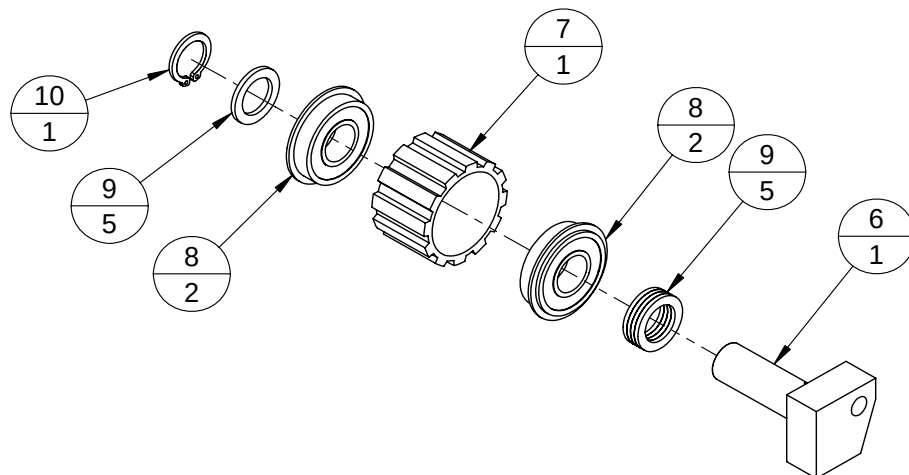
ITEM	PART NO.	QTY.	DESCRIPTION
	20020-006	1	ASSEMBLY, TENSIONER (FLAT ROLLER)
1	18004-022	1	SHAFT, ECCENTRIC IDLER, 1/2
2	18006-012	1	ROLLER, FLAT IDLER, 1.5 X 1-1/8 WIDE
3	99003-007	2	BEARING, 1/2 X 1-1/8, SEALED W/ S.R.
4	99003-018	2	WASHER, NYLON, 1/2 X 1/16
5	99022-004	1	SNAP RING, 1/2
	20020-007	2	ASSEMBLY, TENSIONER (PULLEY)
6	18004-022	1	SHAFT, ECCENTRIC IDLER, 1/2
7	20006-004	1	PULLEY, IDLER, 12L075
8	99003-007	2	BEARING, 1/2 X 1-1/8, SEALED W/ S.R.
9	99003-018	5	WASHER, NYLON, 1/2 X 1/16
10	90022-004	1	SNAP RING, 1/2

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ASSY# 20020-006



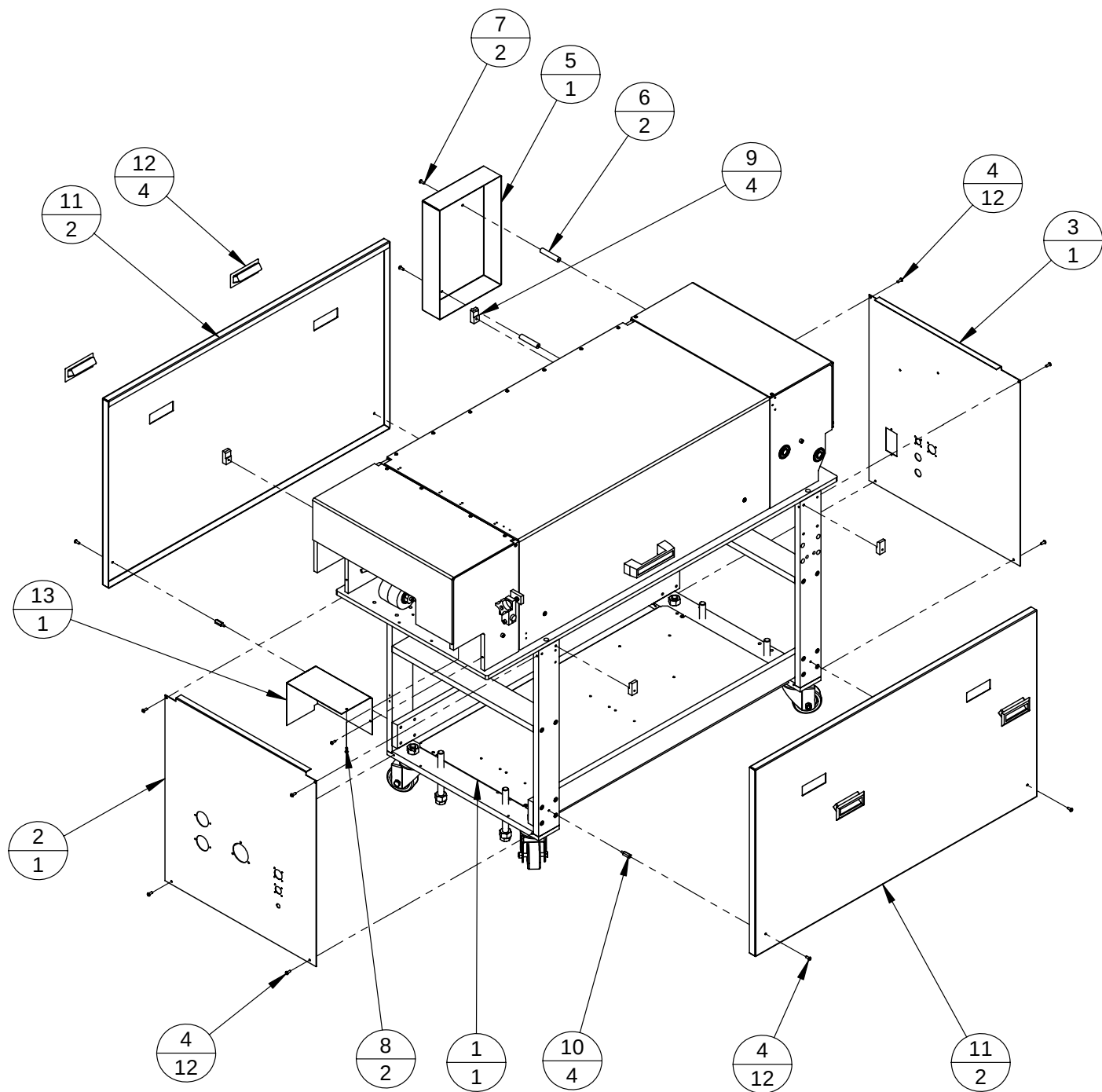
ASSY# 20020-007

TURNOVER (Fig. 8-8)
COVER ASSEMBLY #1 (20020-018)

ITEM	PART NO.	QTY.	DESCRIPTION
1	18013-073	1	COVER, FLOOR
2	20013-023	1	COVER, INFEEED END
3	20013-024	1	COVER, DISCHARGE END
4	-	12	SCREW, BUTTON HEAD, #10-32 X 1/2
5	20013-013	1	COVER, DRIVE
6	20012-003	2	STANDOFF, DRIVE COVER
7	-	2	SCREW, BUTTON HEAD, #10-24 X 1/2
8	-	2	SCREW, BUTTON HEAD, #8-32 X 1/2
9	18007-042	4	BLOCK, SIDE COVER MTG.
10	99039-079	4	STANDOFF, HEX, #10-32
11	20013-003	2	COVER, LOWER SIDE
12	99012-002	4	HANDLE, POCKET PULL
13	20013-018	1	COVER, TURNOVER @ FRONT TABLE, RH

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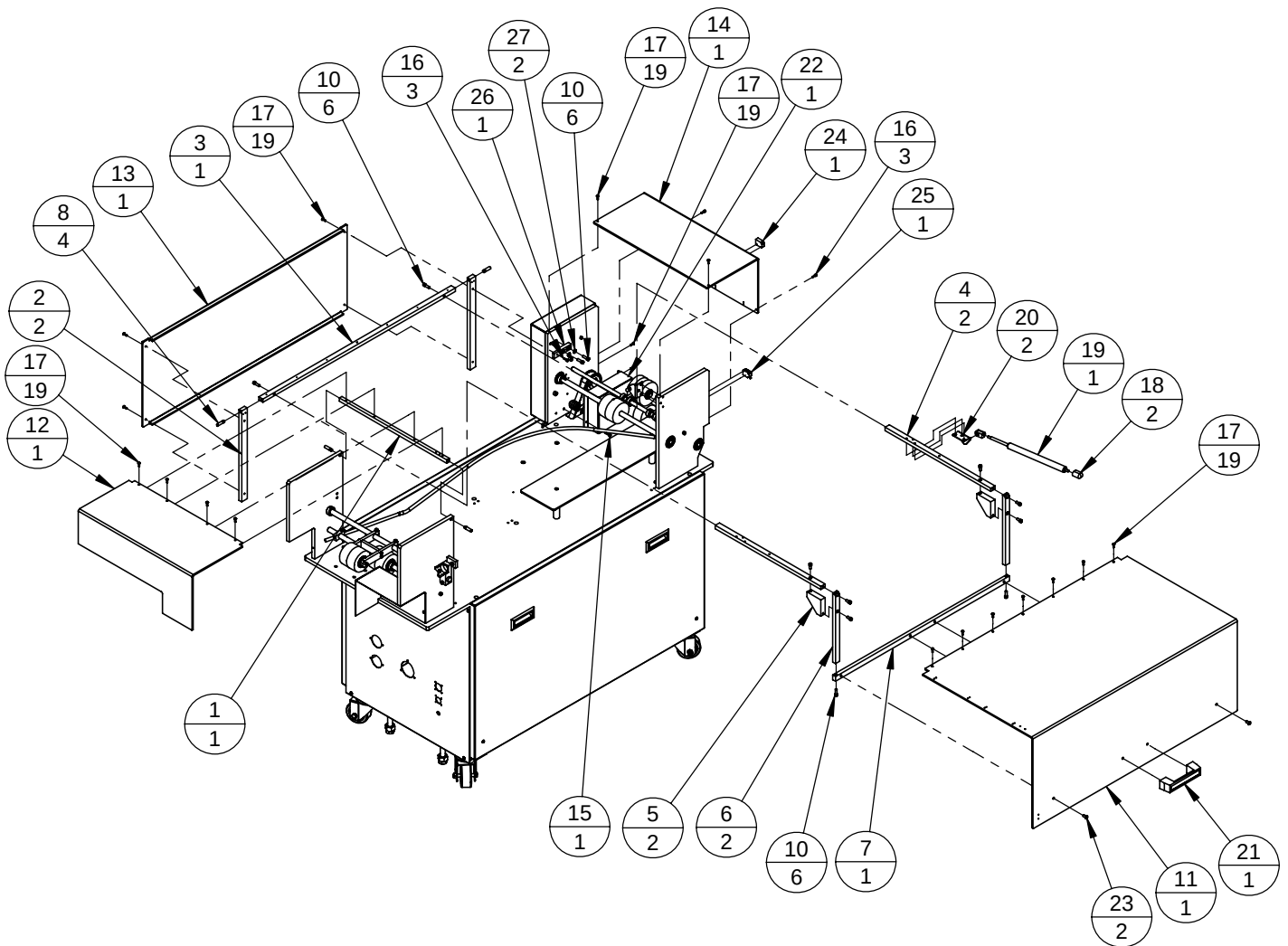


TURNOVER (Fig. 8-9)
COVER ASSEMBLY #2 (20020-018)

ITEM	PART NO.	QTY.	DESCRIPTION
1	20008-005	1	BAR, END COVER MTG.
2	20007-005	2	BLOCK, END COVER MTG.
3	20008-004	1	BAR, COVER MTG.
4	20008-008	2	BAR, COVER SUPPORT TOP
5	20007-006	2	BLOCK, GUSSET, COVER SUPPORT
6	20008-007	2	BAR, COVER SUPPORT SIDE
7	20008-006	1	BAR, COVER SUPPORT HANDLE
8	99006-024	4	PIN, STUD, 5/16-24 X 1-1/8
9	-	6	BOLT, SKT HEAD, 1/4-20 X 1/2
10	-	6	BOLR, SKT HEAD, 1/4-20 X 3/4
11	20013-014	1	COVER, CENTER LEXAN
12	20013-009	1	COVER, INFEED LEXAN
13	20013-015	1	COVER, SIDE LEXAN
14	20013-010	1	COVER, DISCHARGE LEXAN
15	-	1	SCREW, SKT HEAD, #10-24 X 3/4
16	-	3	SCREW, SKT HEAD, #8-32 X 1/2
17	-	19	SCREW, BUTTON HEAD, #8-32 X 1/2
18	99014-005	2	END FITTING, BALL SOCKET
19	99014-004	1	GAS SPRING, 20LB (10.35 TO 18.62)
20	99014-006	2	ANGLE BRACKET, BALL SOCKET
21	99012-001	1	HANDLE, DOOR
22	20013-016	1	COVER, DRIVE BELT
23	-	2	SCREW, BUTTON, HEAD, 1/4-20 X 1/2
24	98009-037	1	SENSOR, RECIEVER, THRU BEAM
25	98009-002	1	SENSOR, SENDER, THRU BEAM
26	20009-006	1	BRACKET, COVER SUPPORT
27	-	2	WASHER, FLAT, 1/4

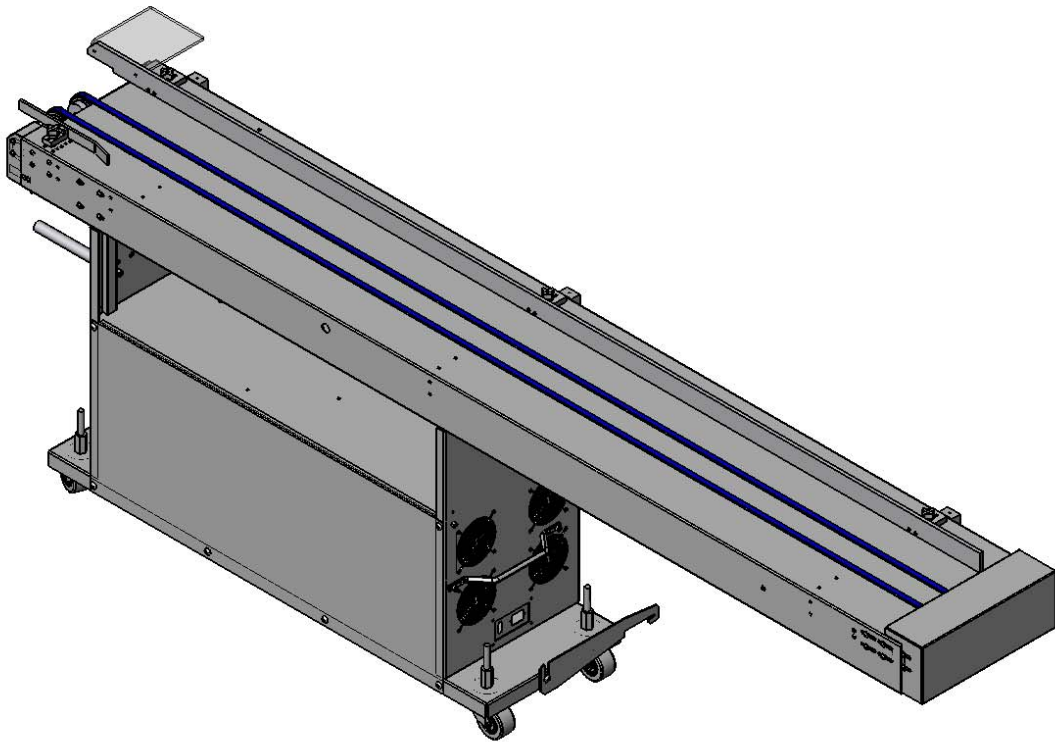
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ENVELOPE INFEEED CONVEYOR (10X13)

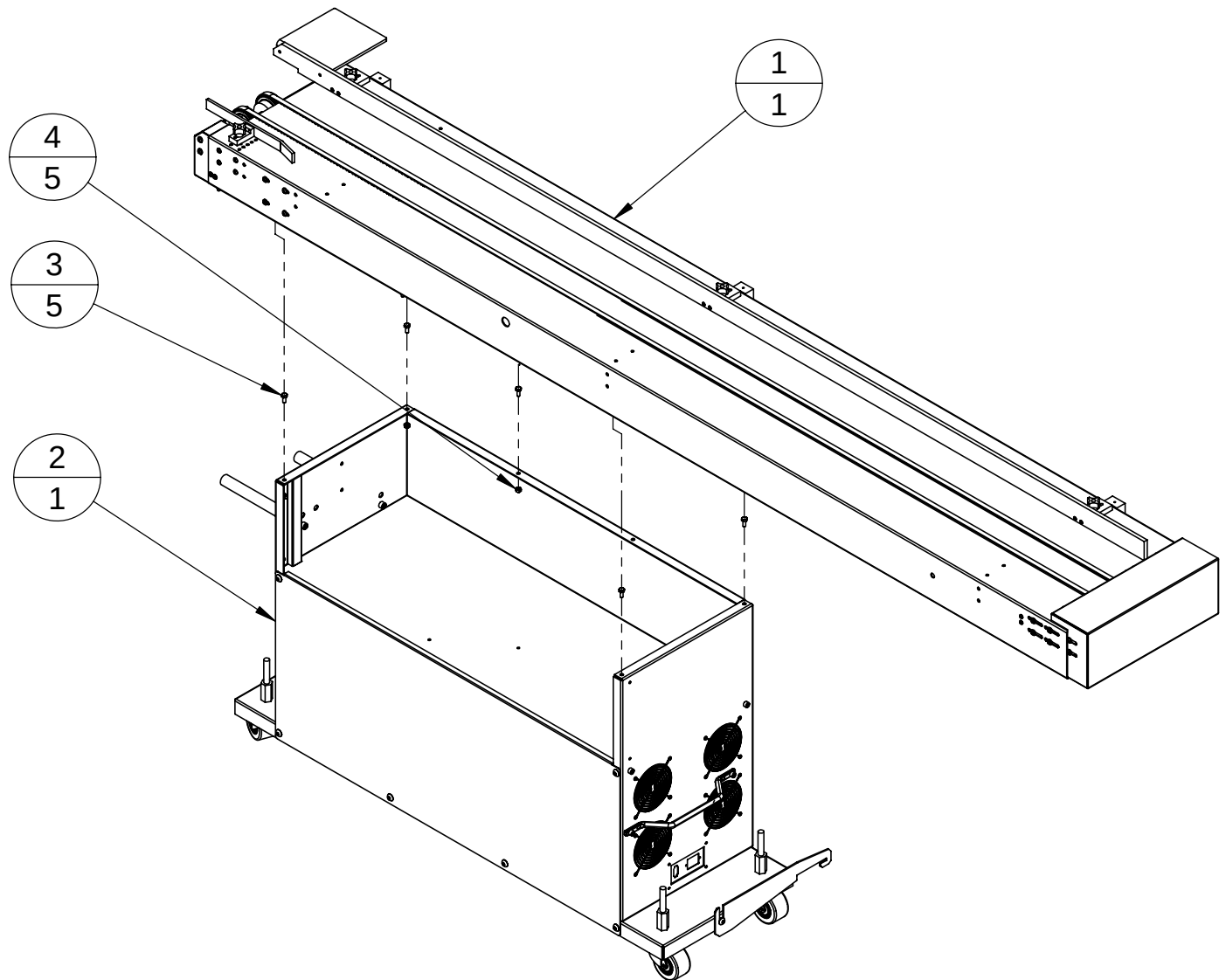


INFEED CONVEYOR (Fig. 9-1)
(12022-014)

ITEM	PART NO.	QTY.	DESCRIPTION
1	SEE FIG. 9-2	1	ASSEMBLY, CONVEYOR BED, 10X13 (12020-045)
2	SEE FIG. 9-3	1	ASSEMBLY, AIR LEG BASE (12020-046)
3	-	5	BOLT, HEX HEAD, 1/4-20 X 5/8
4	-	5	NUT, HEX, 1/4-20

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INFEED CONVEYOR (Fig. 9-2)
CONVEYOR BED ASSEMBLY (12020-045)

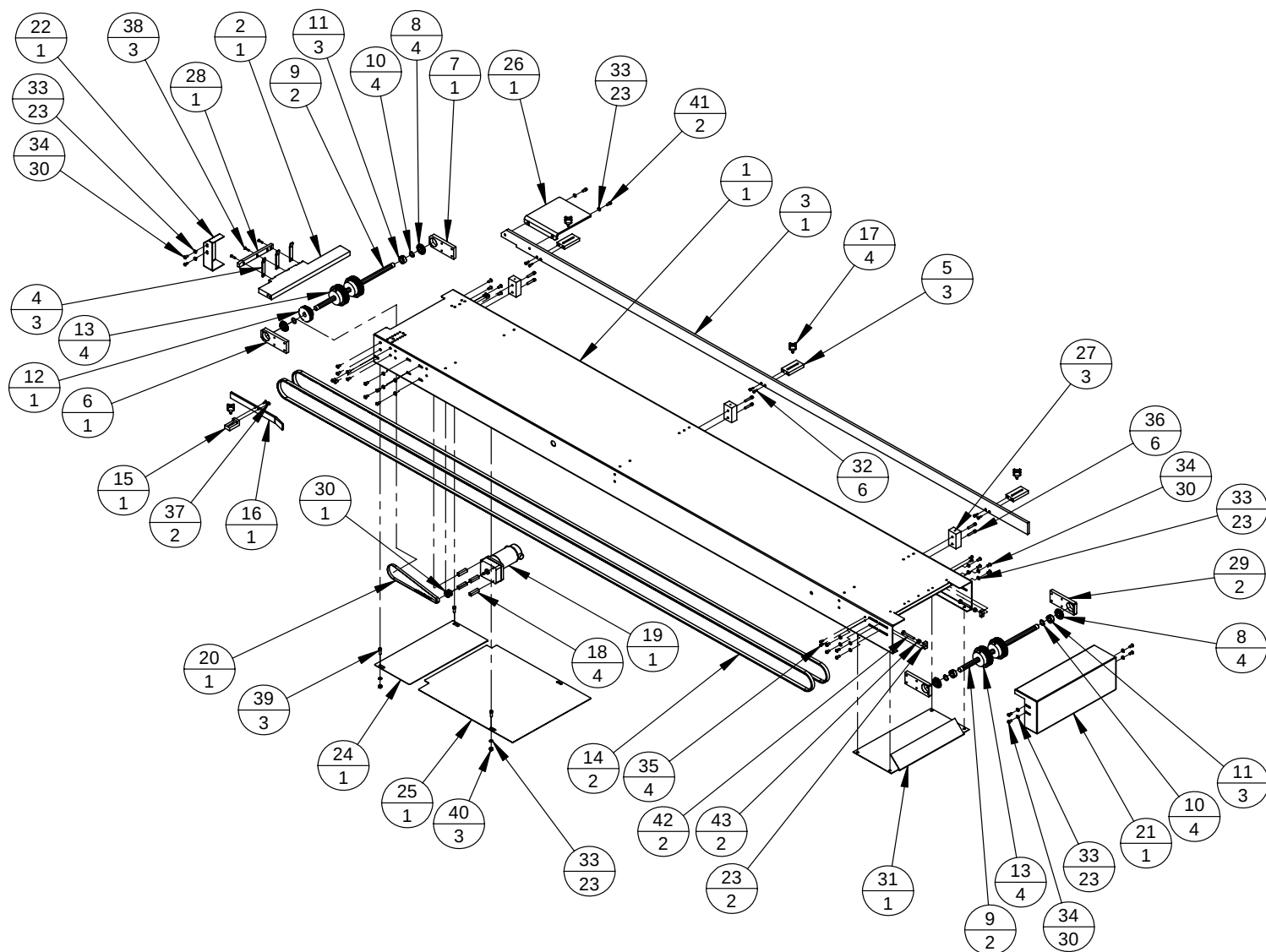
ITEM	PART NO.	QTY.	DESCRIPTION
1	12000-007	1	SIDEFRAME, 9' ENVELOPE CONVEYOR
2	18008-023	1	BAR, ENVELOPE GUIDE MTG.
3	18005-071	1	GUIDE, ENVELOPE SIDE
4	18005-017	3	GUIDE, ENVELOPE
5	18008-031	3	BAR, SIDE GUIDE ADJ.
6	12007-001	1	BLOCK, BEARING, FRONT
7	12007-009	1	BLOCK, BEARING, SHORT FRONT
8	99003-006	4	BEARING, 5/8 X 1-3/8, SELAED W/ S.R.
9	12004-003	2	SHAFT, DRIVE
10	99003-021	4	WASHER, NYLON, 5/8 X 1/16
11	99017-005	3	COLLAR, 5/8 SHAFT
12	99002-033	1	PULLEY, TIMING, 36XL037, 5/8B W/ KEYWAY
13	99002-150	4	PULLEY, TIMING, 24L050, 5/8B
14	18014-059	2	BELT, ENVELOPE CONVEYOR
15	12007-008	1	BLOCK, SIDE GUIDE MTG.
16	12005-010	1	GUIDE, LH SIDE
17	99004-019	4	KNOB, #10-24 MALE
18	12012-001	4	STANDOFF, MOTOR
19	12021-020	1	ASSEMBLY, CONVEYOR MOTOR
20	99000-030	1	BELT, TIMING, 220XL037
21	12011-006	1	END CAP, IDLER
22	12011-009	1	END CAP, DRIVE
23	12007-002	2	BLOCK, TAKE UP
24	12013-031	1	SHIELD, FRONT, INFEED CONV. MOTOR
25	12013-032	1	SHIELD, REAR, INFEED CONV. MOTOR
26	18013-087	1	COVER, INFEED CONVEYOR
27	12007-010	3	BLOCK, SIDE GUIDE MTG.
28	18005-064	1	GUIDE, ENVELOPE @ SHUTTLE
29	12007-027	2	BLOCK, BEARING, REAR CONVEYOR

**INFEED CONVEYOR (Fig. 9-2)
 CONVEYOR BED ASSEMBLY (12020-045)**

ITEM	PART NO.	QTY.	DESCRIPTION
30	99002-008	1	PULLEY, TIMING, 12XL037, 5/16 B
31	12013-009	1	GUARD, IDLER CONV. LEG
32	-	6	SCREW, SKT HEAD, #10-24 X 1/2
33	-	23	WASHER, FLAT, 1/4
34	-	30	BOLT, BUTTON HEAD, 1/4-20 X 1/2
35	-	4	SCREW, BUTTON HEAD, #10-24 X 1/2
36	-	6	BOLT, SKT HEAD, 1/4-20 X 1-1/4
37	-	2	SCREW, FLAT HEAD, #8-32 X 1/2
38	-	3	SCREW, BUTTON HEAD, #10-24 X 3/4
39	-	3	BOLT, HEX HEAD, 1/4-20 X 5/8
40	-	3	NUT, HEX HEAD, 1/4-20
41	-	2	BOLT, SKT HEAD, 1/4-20 X 1/2
42	-	2	BOLT, HEX HEAD, 1/4-20 X 2
43	-	2	NUT, HEX HEAD, 1/4-20

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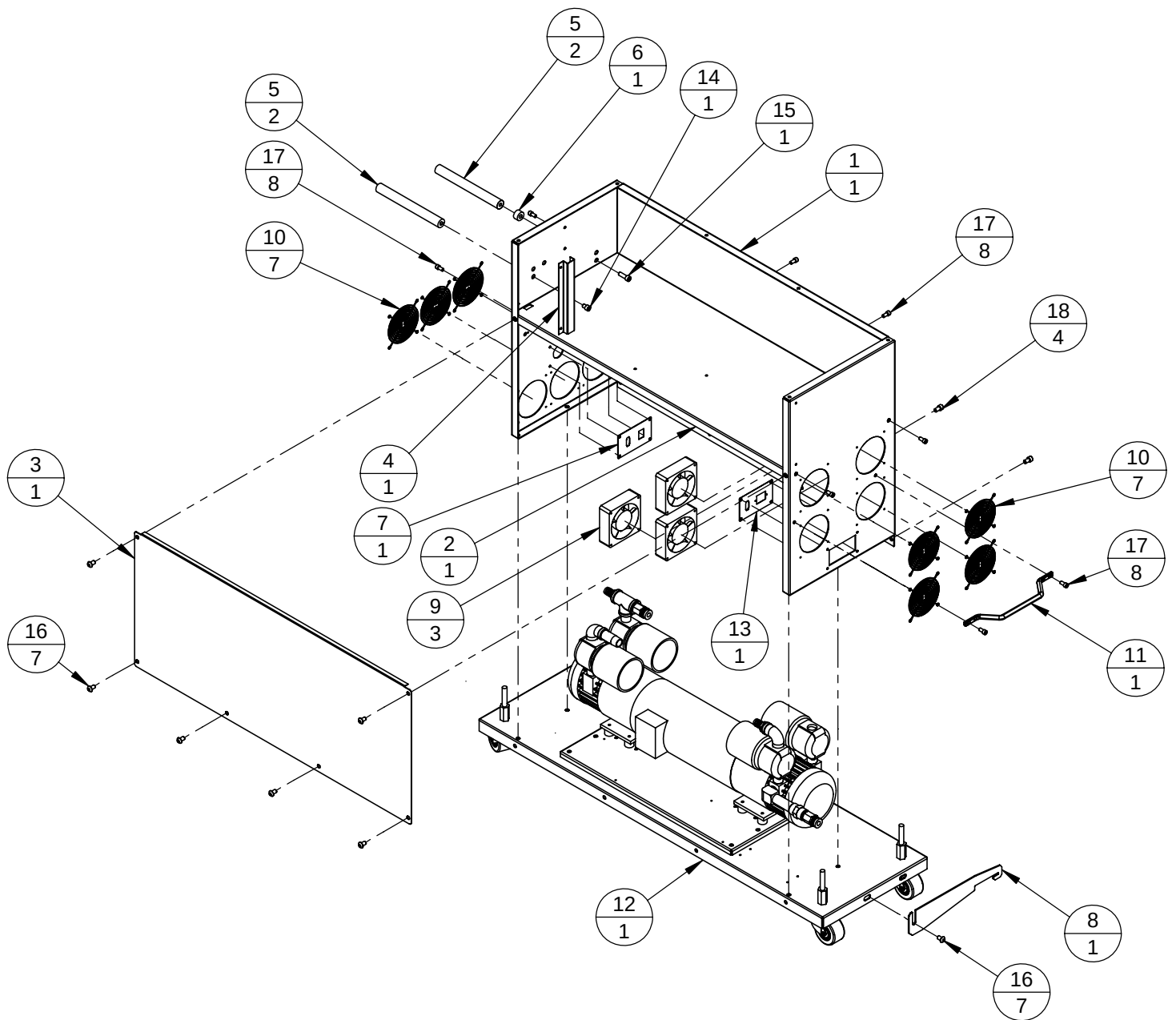


**INFEED CONVEYOR (Fig. 9-3)
 AIR LEG BASE ASSEMBLY (12020-046)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	12010-023	1	LEG, AIR, INFED CONVEYOR
2	12011-051	1	PLATE, AIR LEG
3	12013-025	1	COVER, AIR LEG
4	12013-034	1	COVER, MOTOR CABLE
5	12012-011	2	STANDOFF, COVER SUPPORT
6	12012-012	1	SPACER, CONVEYOR / FRONT TABLE
7	12011-055	1	PLATE, CONNECTOR MTG.
8	12009-016	1	BRACE, CONVEYOR ALIGNMENT
9	99041-003	3	FAN, AC, 120 CFM – 290 RPM
10	99041-004	7	FAN COVER
11	99012-005	1	HANDLE, PULL
12	SEE FIG 9-4	1	ASSEMBLY, PUMP BASE (12020-047)
13	12011-054	1	PLATE, CONNECTOR MTG.
14	-	1	BOLT, SKT HEAD, 3/8-16 X 1/2
15	-	1	BOLT, SKT HEAD, 3/8-16 X 1-1/2
16	-	7	BOLT, BUTTON HEAD, 3/8-16 X 5/8
17	-	8	BOLT, SKT HEAD, 5/16-18 X 5/8
18	-	4	BOLT, SKT HEAD, 3/8-16 X 5/8
19	99031-022	15 FT	HOSE, 3/4" ID (NOT SHOWN)
20	99017-030	4	HOSE CLAMP, SS, 11/16 X 1-1/2

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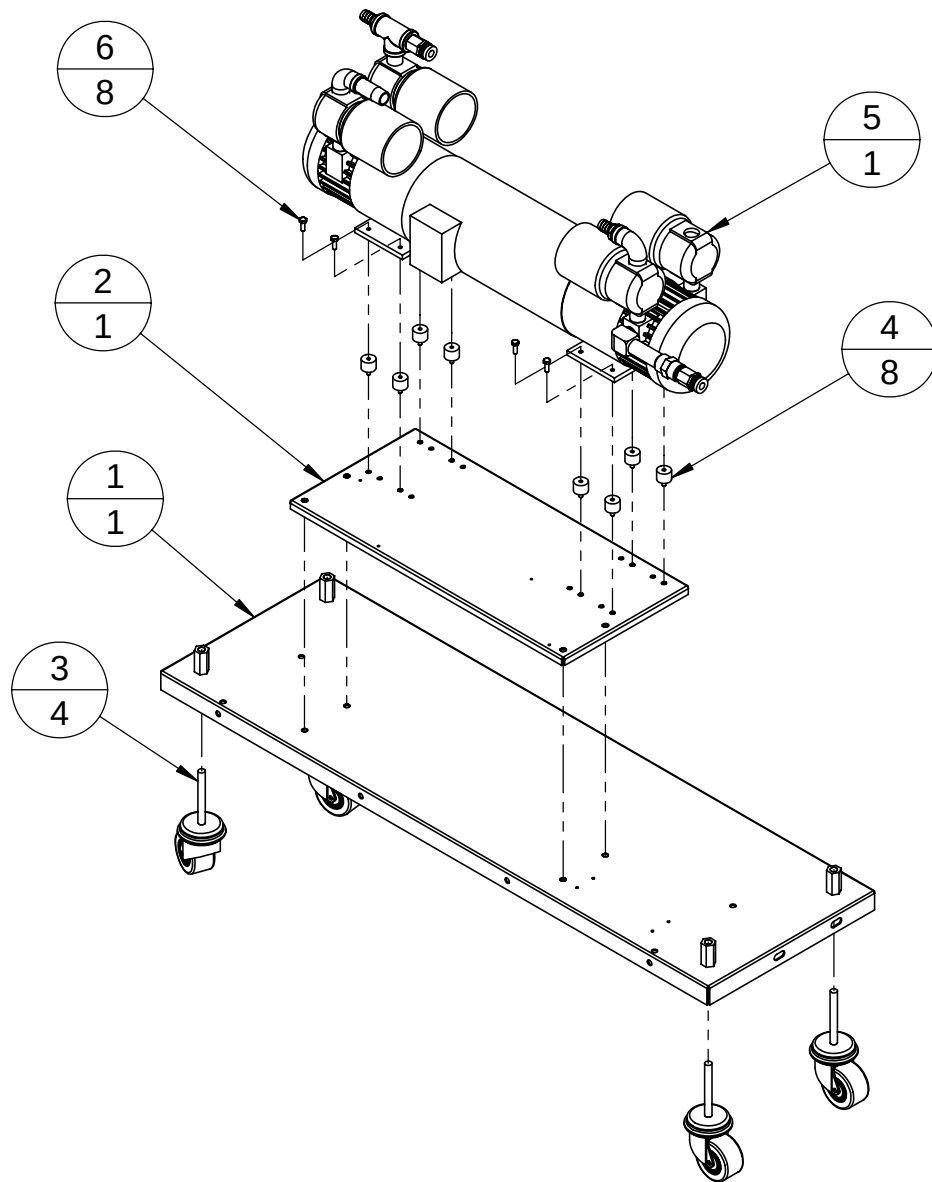


INFEED CONVEYOR (Fig. 9-4)
PUMP BASE ASSEMBLY (12020-047)

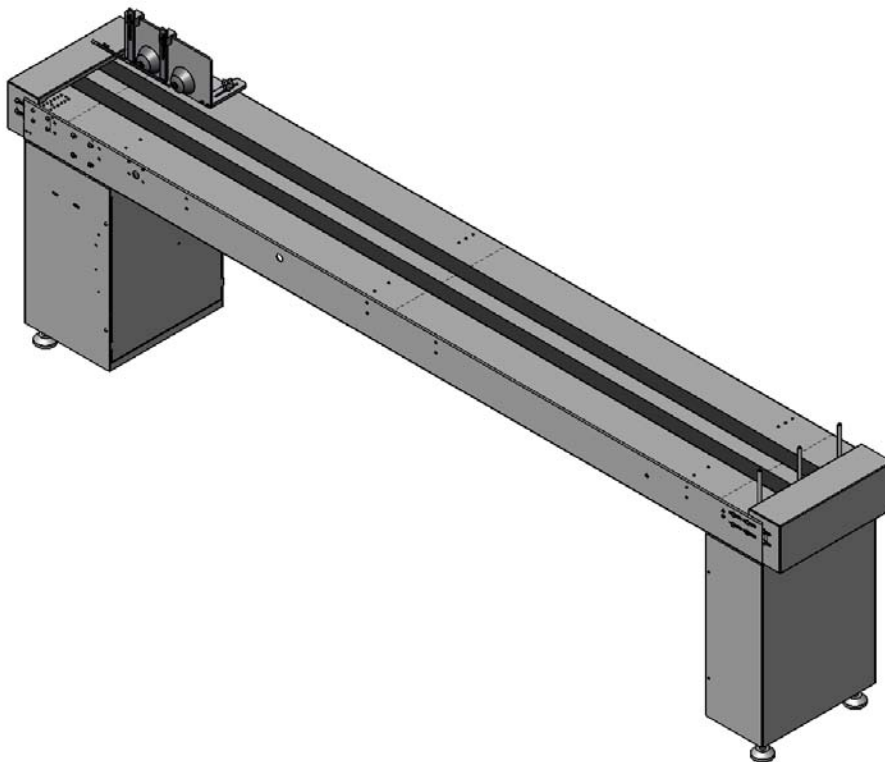
ITEM	PART NO.	QTY.	DESCRIPTION
1	12011-052	1	PLATE, AIR LEG BASE
2	12011-053	1	PLATE, PUMP MTG.
3	99010-017	4	CASTER, 3"
4	99039-155	8	VIBRATION MOUNT, 1/4-20 THREAD
5	99029-013	1	GAST PUMP / BLOWER COMBO
6	-	8	BOLT, HEX HEAD, 1/4-20 X 3/4

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SHINGLE CONVEYOR

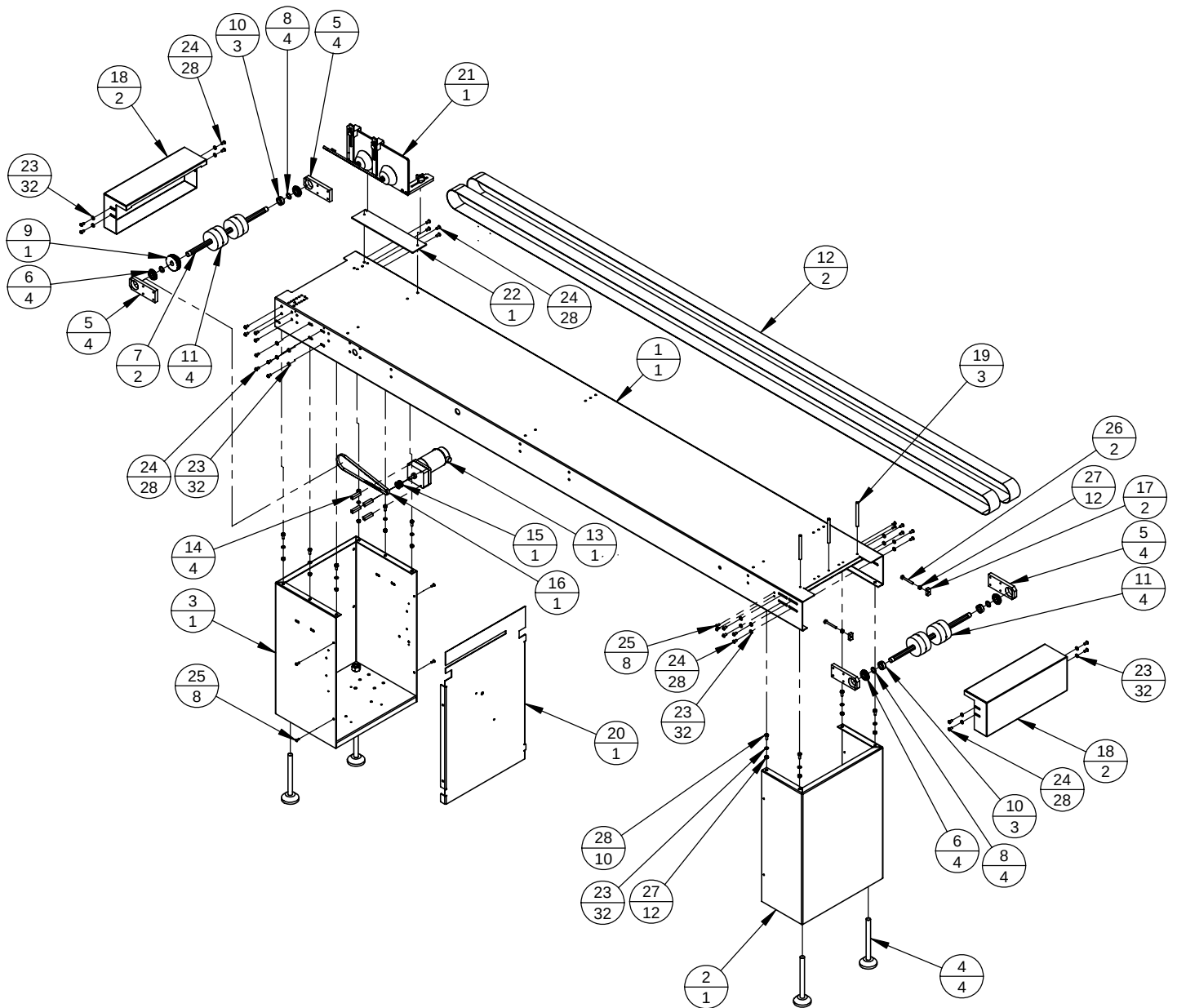


**SHINGLE CONVEYOR ASSEMBLY (Fig. 10-1)
(12022-003)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	12000-007	1	SIDEFRAAME, 9' CONVEYOR
2	12010-003	1	LEG, CONVEYOR IDLER, 30"
3	12010-004	1	LEG, CONVEYOR DRIVE, 30"
4	99010-001	4	LEVELING PAD, 5/8-11
5	12007-001	4	BLOCK, BEARING
6	99003-006	4	BEARING, 5/8 X 1-3/8 SEALED W/ S.R.
7	12004-003	2	SHAFT, DRIVE
8	99003-021	4	WASHER, NYLON, 5/8 X 1/16
9	99002-033	1	PULLEY, TIMING, 36XL037, 5/8 BORE W/ KEYWAY
10	99017-005	3	COLLAR, 5/8
11	12006-002	4	PULLEY, CROWNED
12	99000-052	2	BELT, ENDLESS, 2" WIDE X 18'1" LONG
13	99001-009	1	MOTOR, 1/30 HP, 32 RPM
14	12012-009	4	STANDOFF, MOTOR
15	99002-008	1	PULLEY, TIMING, 12XL037, 5/16 BOREE
16	99000-030	1	BELT, TIMING, 220XL037
17	12007-002	2	BLOCK, TAKE UP
18	12011-006	2	END CAP, IDLER
19	12004-008	3	POST, STOP
20	12013-005	1	GUARD, CONVEYOR DRIVE LEG
21	SEE FIG. 10-2	1	ASSEMBLY, KNOCK DOWN (12020-009)
22	12011-043	1	PLATE, SPACER
23	-	32	WASHER, FLAT, 1/4
24	-	28	BOLT, BUTTON HEAD, 1/4-20 X 1/2
25	-	8	SCREW, BUTTON HEAD, #10-24 X 1/2
26	-	2	BOLT, HEX HEAD, 1/4-20 X 2
27	-	12	NUT, HEX, 1/4-20
28	-	10	BOLT, HEX HEAD, 1/4-20 X 5/8

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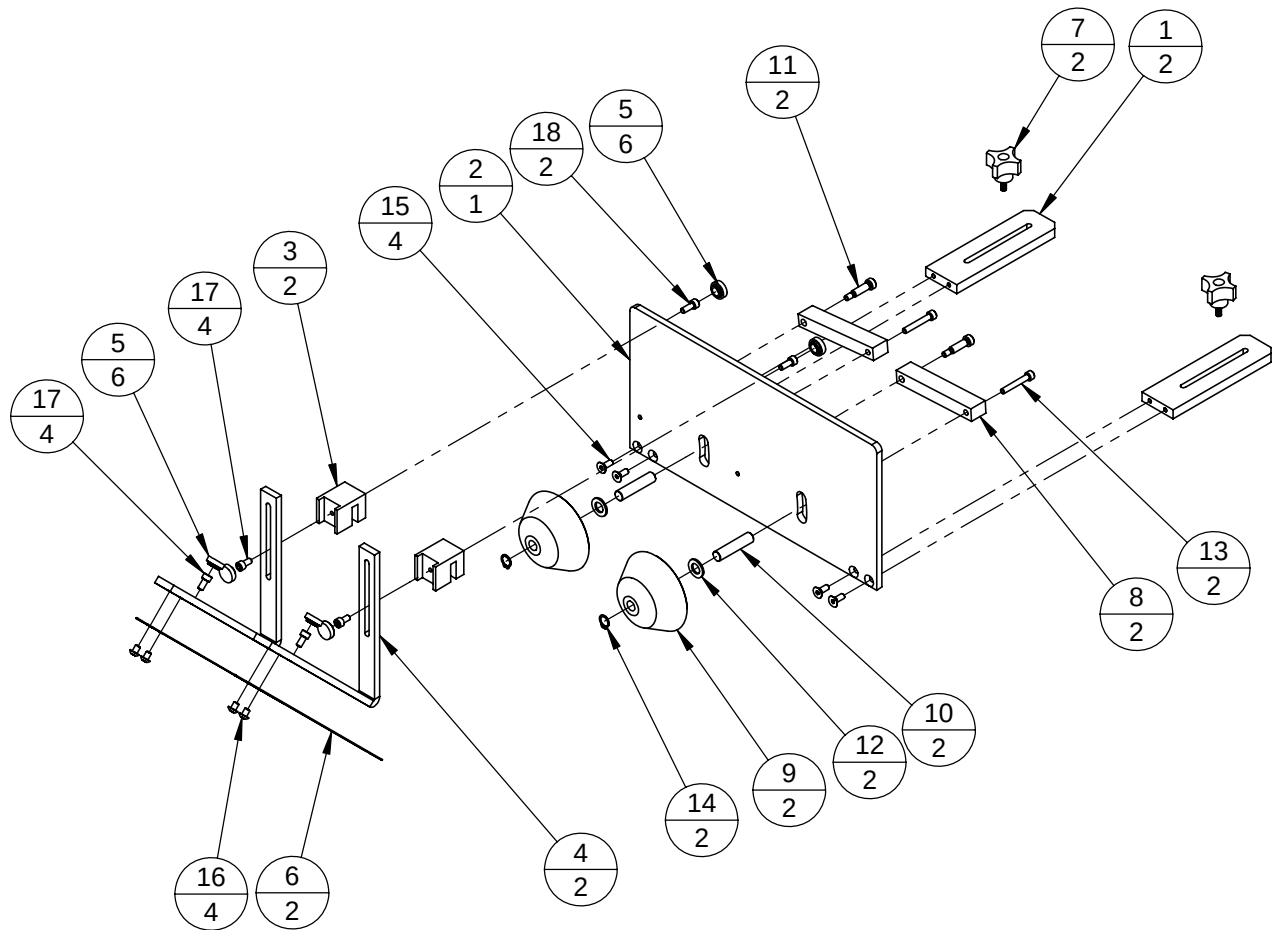


**SHINGLE CONVEYOR (Fig. 10-2)
 KNOCK DOWN ASSEMBLY (12020-009)**

ITEM	PART NO.	QTY.	DESCRIPTION
1	12007-006	2	BLOCK, PLATE MTG.
2	12011-007	1	PLATE, KNOCK DOWN
3	12007-007	2	BLOCK, KNOCK DOWN
4	12008-001	2	BRACKET, KNOCK DOWN
5	99004-002	6	KNOB, #10 SCREW
6	12005-007	2	GUIDE, KNOCK DOWN
7	99004-019	2	KNOB, #10-24 MALE
8	12008-028	2	BAR, KNOCK DOWN ROLLER MTG.
9	12006-020	2	ROLLER, KNOCK DOWN
10	12004-028	2	SHAFT, KNOCK DOWN ROLLER
11	99033-005	2	SHOULDER BOLT, 1/4 X 3/4
12	99003-017	2	WASHER, NYLON, 3/8 X 1/16
13	-	2	SCREW, SKT HEAD, #10-24 X 1-1/4
14	99022-003	2	SNAP RING, 3/8
15	-	4	SCREW, FLAT HEAD, #10-24 X 1/2
16	-	4	SCREW, BUTTON HEAD, #10-24 X 1/4
17	-	4	SCREW, SKT HEAD, #10-24 X 3/8
18	-	2	SCREW, SKT HEAD, #10-24 X 1/2

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