

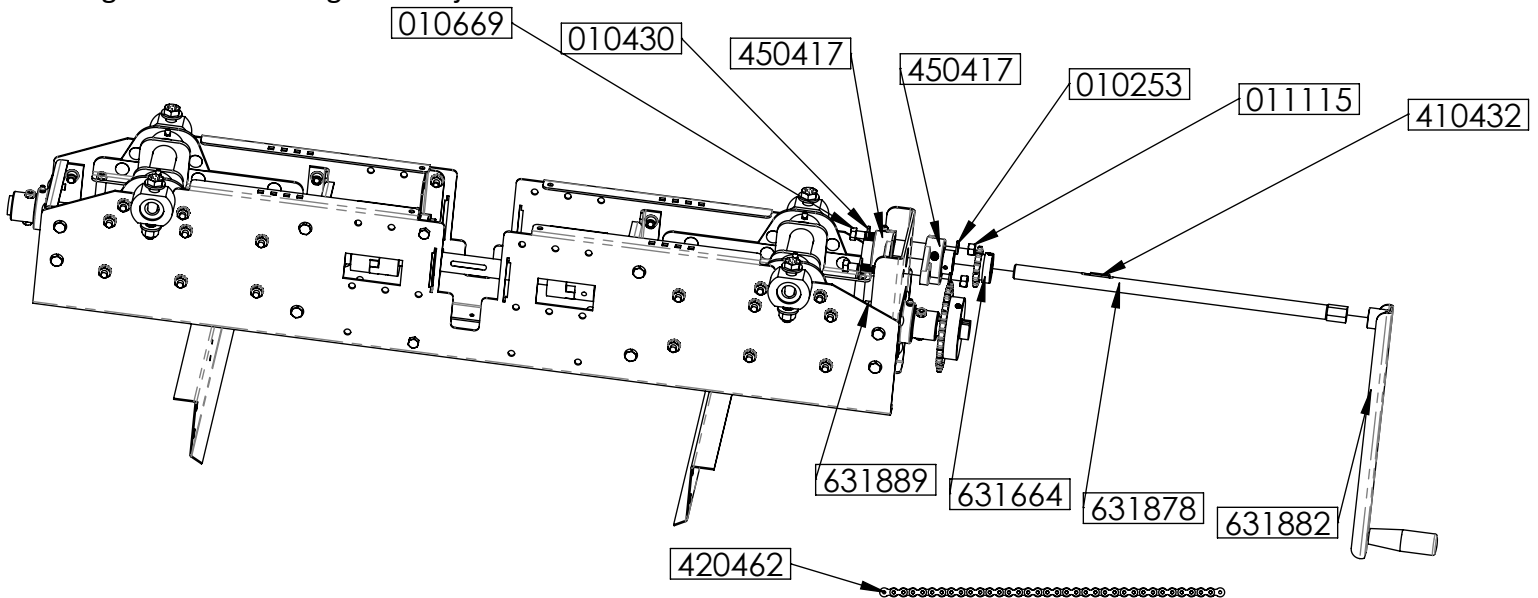
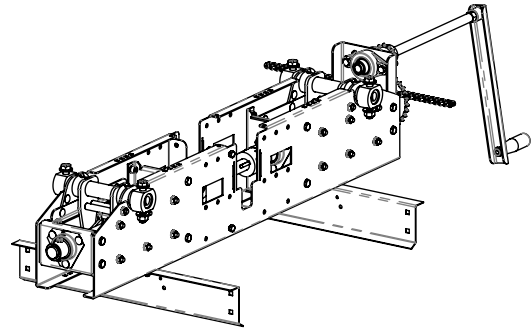


Quick Sheet Instructions

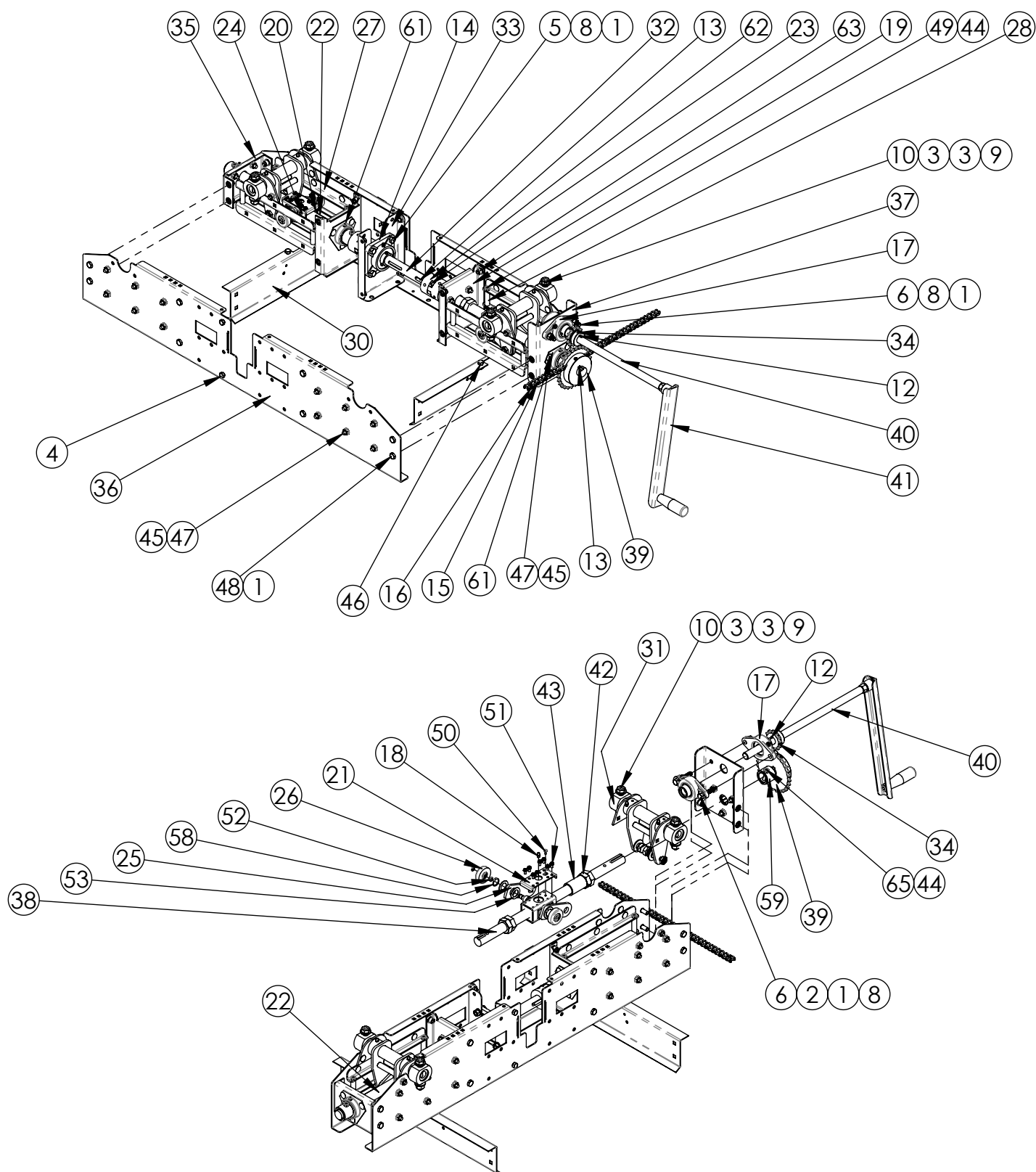
631653-MO, MANUALLY OPERATED EXPELLER

Installation Instructions:

1. See the Freedom Nest Manual (990004) before beginning installation.
2. Assemble the bearings, sprocket, shaft, and chain as shown below. Be sure to lock the eccentric locking collars on the bearings.
3. Then, wrap the install the chain.
4. The Acme nuts should be set as hard stops. See the Freedom Nest Manual (990004) for the procedure to set limits. Position the nuts (2 on each end of the screw) in the desired end points as described in the manual, then tighten the nuts together as jam nuts.



PARTS LIST		
PART #	QTY	DESCRIPTION
010253	22	WASHER, LOCK, 3/8"
010430	2	WASHER, FLAT, 3/8"USS ZP
010669	2	BOLT, HEX, 3/8-16 X 2"
011115	6	NUT, HEX, 3/8-16
410432	1	3/16" X 3/16" X 1" KEY
420462	1.4583	#40 ROLLER CHAIN
450417	2	BEARING, FLANGE, 3/4"ID
631664	1	SPROCKET, 4012, 3/4 BORE
631880	1	SHAFT, DRIVE, EXPELLER, MANUAL
631885	1	HANDLE ASSEMBLY
631889	4	NUT,HEX,ACME,RH 1-5,PLAIN STL
990353	1	QUICKSHEET, MANUALLY OPERATED



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BILL OF MATERIALS			
ITEM #	PART #	QTY	DESCRIPTION
1	010253	22	WASHER, LOCK, 3/8"
2	010430	2	WASHER, FLAT, 3/8"USS ZP
3	010437	8	WASHER, FLAT, 1/2"
4	010643	4	BOLT, HEX, 5/16-18 X 3/4"
5	010664	4	BOLT, HEX, 3/8-16 X 1"
6	010669	2	BOLT, HEX, 3/8-16 X 2"
7	010768	1	BAG, POLY, 004 X 5 X 9
8	011115	6	NUT, HEX, 3/8-16
9	011117	4	NUT, HEX, 1/2-13
10	011419	4	BOLT, HEX, 1/2-13 X 3-1/4", ZP
11	012800	6	CABLE TIE, 8"L., 18"W, NYLON
12	410432	1	3/16" X 3/16" X 1" KEY
13	412135	5	1/4" X 1/4" X 1" KEY
14	420451	1	BEARING, 1.00" FLANGE
15	420462	1.4583	#40 ROLLER CHAIN
16	420463	1	#40 MASTER LINK
17	450417	2	BEARING, FLANGE, 3/4"ID
18	611143	6	FITTING, GREASE, 1/4-28 STR THD
19	630083	2	BLOCK, BRG
20	630146	1	NUT, ACME, LH
21	630428	2	KEEPER, F/630146 ACME NUT
22	630453	1	ACME SCREW, 1-5TPI, LH, EXTEN
23	630464	2	SPIDER, LOVEJOY (PART# L 090), COLOR: BLUE
24	630481	2	COLLAR, LOAD, EXPELLER
25	630486	4	ARM, SWING, EXPELLER, SHORT
26	630487	4	WHEEL, 1-11/16 OD, 3/8 ID
27	630496	8	RAIL, SWING ARM CHANNEL
28	630497	8	SPACER, TUBE, RAIL, SWING
29	630502	4	BUSHING, 1/2 ID X 5/8" OD X 3/8", BRONZE
30	631311	2	SUPPORT, NOTCHED, HORIZONTAL
31	631654	2	SWING ASSY ARM, EXPELLER, PLATED
32	631659	1	SHAFT, JOINING, DRIVE, PLATED
33	631660	1	HOUSING STABILIZER, DRIVE
34	631664	1	SPROCKET, 4012, 3/4 BORE
35	631674	1	BLOCK, BEARING, EXTERIOR
36	631675	2	HOUSING, DRIVE
37	631875	1	BLOCK, BEARING, EXTERIOR
38	631876	1	ACME SCREW, 1-5TPI, RH
39	631877	1	SPROCKET, #40 ROLLER CHAIN 28T
40	631880	1	SHAFT, DRIVE, EXPELLER, MANUAL
41	631885	1	HANDLE ASSEMBLY
42	631889	4	NUT, HEX, ACME, RH 1-5, PLAIN STL
43	631891	1	SPACER, 1" SCHED 40 PIPE X 2"
44	690003	12	NUT, HEX, K-LOCK, 1/4-20
45	690020	52	NUT, HEX, K-LOCK, 5/16-18
46	690026	4	SCREW, 5/16-18 X 5/8 HHCS ZP
47	690027	44	SCREW, 5/16-18 X 3/4 CRG SH NK ZP
48	690084	16	SCREW, 3/8-16 X 0.75 HHCS ZP
49	690159	8	BOLT, HEX, 1/4-20 X 2-1/4"
50	690187	2	SCREW, PAN, #8-18 X 3/8"
51	690197	16	SCREW, 10-32 X 3/8 THD CUT #11-104
52	690249	8	RETAINING RING, EXTERNAL, 3/8
53	690250	8	SHIM, ROUND 3/4 ID X 1-1/4 OD X .045 THK
54	690251	8	SHIM, ROUND 1/2 ID X 7/8 OD X .045 THK
55	690252	4	WASHER, FLAT, 5/8"
56	690253	4	BOLT, HEX, 1/2-13 X 1"
57	690254	4	NUT, HEX, JAM, 1/2-13 X 7/32"
58	690255	4	RING, RETAINING EXT #3100-75
59	970053	4	COLLAR, LOAD
60	970055	4	BRG, THRUST, 64TB64ZP
61	970056	4	FLANGE, 9113-ZP
62	970070	4	HUB, LOVEJOY, L095, TIN W/KW
63	970121	12	3/8-16 THREADED INSERT
64	970749	1	NUT, ACME, RH
65	970794	4	SCREW, 1/4-20 X 1-3/4inch
66	990353	1	QUICKSHEET, MANUALLY OPERATED

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