



Service and Parts Manual SPM-630A

TRUCK MODEL
CS 15/20

**ALWAYS GIVE TRUCK SERIAL
NUMBER WHEN ORDERING PARTS**



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12.5.2 Chain Assembly - 3 Stage 160, 180" Lift Height

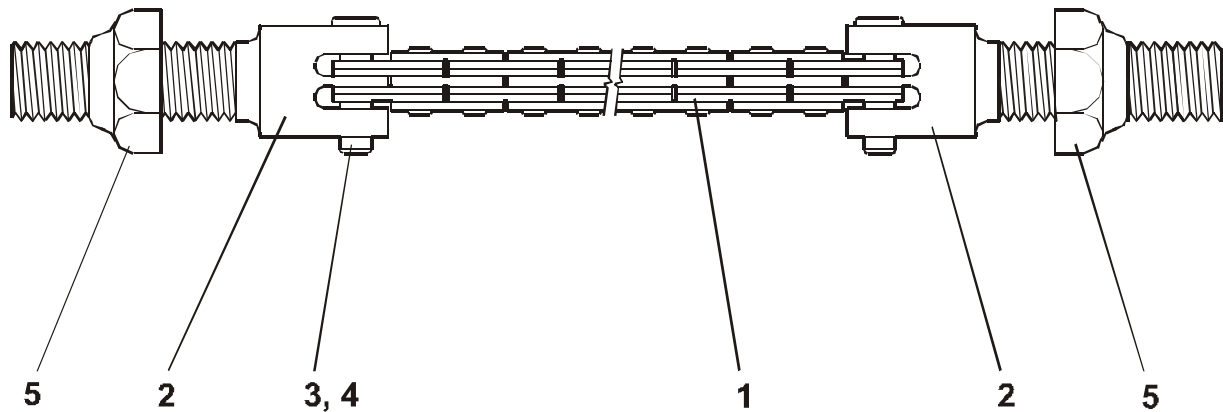


Figure 23 : Chain Assembly - 160", 180", 200" Lift Height

Item	Qty	Part No	General Description	Specific Description
◀	-	103-5030	Assembly, Chain - 71.5" LG.	3000/4000-160"
-	-	103-5030-1	Assembly, Chain - 76.5" LG.	3000/4000-180"
-	-	103-5030-2	Assembly, Chain - 84.5" LG.	4000-200"
-	-	103-5030-3	Assembly, Chain - 132.5" LG.	3000/4000-160"
-	-	103-5030-4	Assembly, Chain - 142.5" LG.	3000/4000-180"
-	-	103-5030-21	Assembly, Chain - 155.5" LG.	4000-200"
1	1	090-067-0714	Leaf, Chain - 71-1/2" LG.	3000/4000-160"
1	1	090-067-0764	Leaf, Chain - 76-1/2" LG.	3000/4000-180"
1	1	090-067-0844	Leaf, Chain - 84-1/2" LG.	4000-200"
1	1	090-067-1324	Leaf, Chain - 132-1/2" LG.	3000/4000-160"
1	1	090-067-1424	Leaf, Chain - 142-1/2" LG.	3000/4000-180"
1	1	090-067-1554	Leaf, Chain - 155-1/2" LG.	4000-200"
2	2	104-532	Clevis	3000/4000-160,180,200"
3	2	105-372	Pin, Clevis 0.2"OD x 1-1/4" LG,	3000/4000-160,180,200"
4	2	013-015	Pin, Cotter - 1/16" x 3/4"	3000/4000-160,180,200"
5	2	011-535	Nut, Hex - 3/4"-10 Nylon Insert	3000/4000-160,180,200"

12.5.3 Crosshead Assembly - 3 Stage 160, 180" Lift

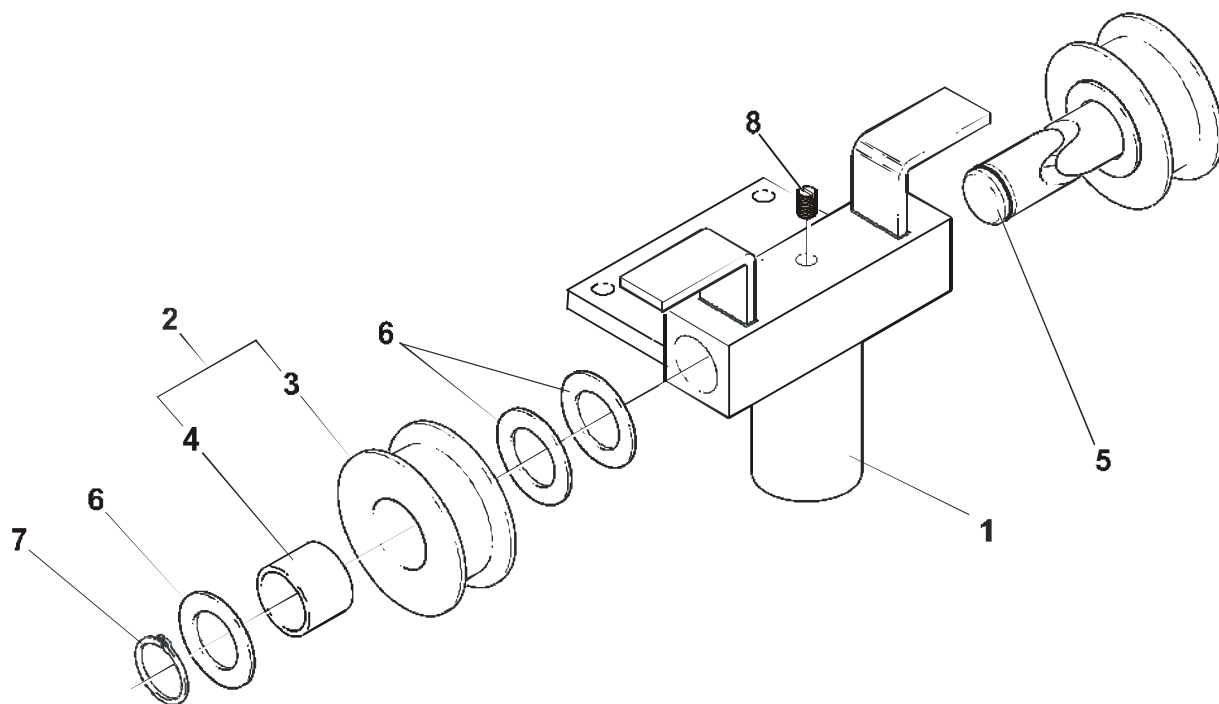


Figure 24 : Crosshead Assembly - 160", 180", 200" Lift Height

Item	Qty	Part No	General Description	Specific Description
◀	-	781-174	Assembly, Crosshead	3000-160, 180"
-	-	781-175	Assembly, Crosshead	4000-160, 180, 200"
1	1	781-177	Weldment, Crosshead	3000-160, 180"
1	1	781-178	Weldment, Crosshead	4000-160, 180, 200"
2*	2	792-306	Assembly, Roller, Chain c/w Bushing	3000/4000-160,180,200"
3	1	100-019	Chain Roller (7/8"ID x 1-1/4"OD)	3000/4000-160,180,200"
4	1	018-027	Bushing	3000/4000-160,180,200"
5	1	103-250	Pin, Crosshead	3000/4000-160,180,200"
6	6	114-336	Washer, Flat Spacer	3000/4000-160,180,200"
7	2	013-036	Ring, Retaining Ext. 1-1/4"ID	3000/4000-160,180,200"
8	1	014-005	Setscrew, Socket 3/8"-16 X 3/8"	3000/4000-160,180,200"

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12.6 Mast and Carriage Assembly - 3 Stage 172" Lift Full Free

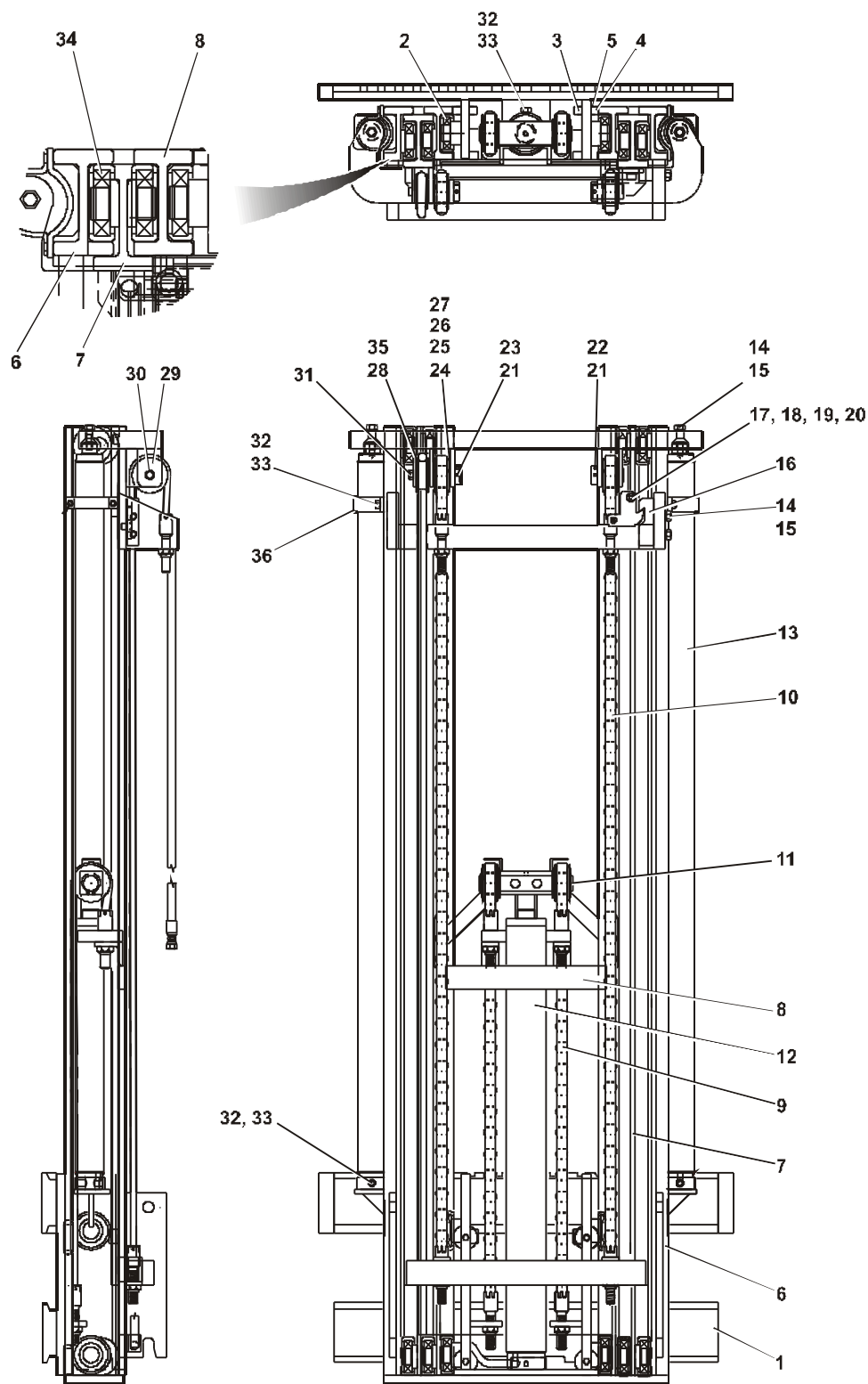


Figure 25 : Full Free Mast and Carriage Assembly - 172" Lift Height

Mast and Carriage Assembly - 3 Stage 172" Lift Full Free

Item	Qty	Part No	General Description	Specific Description
◀	-	143-5049	Mast and Carriage Assembly – 3 Stage Full Free	3000/4000 -172" FF
1*	1	133-5002	Weldment, Carriage	3000/4000 -172" FF
2	4	019-011	Bearing, Roller	3000/4000 -172" FF
3*	2	103-5045	Ass'y, Roller - Side Thrust	3000/4000 -172" FF
4	2	103-0022	Roller, 2" Dia. - Side Thrust	3000/4000 -172" FF
5	2	018-006	Bushing	3000/4000 -172" FF
6	1	143-5039	Mast, Outer Weldment 172" Lift	3000/4000 -172" FF
7	1	103-5036	Mast, Center Weldment	3000/4000 -172" FF
8	1	103-5047	Mast, Inner Weldment	3000/4000 -172" FF
9**	2	103-5030-10	Ass'y, Chain - 44.5" LG	3000/4000 -172" FF
10**	2	103-5030-15	Ass'y, Chain - 73.5" LG	3000/4000 -172" FF
11**	1	781-133	Ass'y, Crosshead	3000/4000 -172" FF
12**	1	783-199-1	Ass'y, Cylinder 130/172/180"Lh	3000/4000 -172" FF
13**	2	780-272	Ass'y, Cylinder (2"Dia) Outbrd 56-1/4"Str.	3000/4000 -172" FF
14	4	010-048	Capscrew, Hex Hd. 1/2"-13 x 1-1/2"	3000/4000 -172" FF
15	4	012-220	Washer, Lock 1/2"	3000/4000 -172" FF
16	1	121-626	Hook, Pawl (1-1/4"x1"x4")	3000/4000 -172" FF
17	1	011-577	Screw, Shoulder 1/2" x 1/2" 3/8"-16 Thread	3000/4000 -172" FF
18	1	012-239	Washer, Spacer - 1/2"ID x 1"OD x 1/8" THK	3000/4000 -172" FF
19	1	012-238	Washer, Spacer -1/2"ID x 1"OD x 5/64"THK.	3000/4000 -172" FF
20	1	781-575	Pawl	3000/4000 -172" FF
21	1	120-884	Pin	3000/4000 -172" FF
22	2	013-117	Pin 1/4"Dia X 1-3/4" LG	3000/4000 -172" FF
23	1	121-339	Pin (Threaded)	3000/4000 -172" FF
24*	2	792-306	Ass'y, Chain Roller (7/8"ID 1-1/4"OD)	3000/4000 -172" FF
25	1	100-019	Roller, Chain (7/8")	3000/4000 -172" FF
26	1	018-027	Bushing	3000/4000 -172" FF
27	4	012-286	Washer, Flat 1-1/4"ID x 2-1/2"OD x 1/16" Brass	3000/4000 -172" FF
28*	1	780-192	Ass'y, Hose Roller	3000/4000 -172" FF
29	1	120-885	Roller, Hose	3000/4000 -172" FF
30	1	018-623	Bushing, 1/2"ID x 5/8"	3000/4000 -172" FF
31	1	011-585	Capscrew, Shoulder Hex Socket Head 1/2"x1-1/4"- 3/8"-16	3000/4000 -172" FF
32	7	010-036	Capscrew, Hex Hd. - 5/16"-18 x 1/2"	3000/4000 -172" FF
33	7	012-200	Washer, Lock - 5/16" Helical	3000/4000 -172" FF
34	8	019-011	Bearing, Roller	3000/4000 -172" FF
35	1	012-274	Washer, 1-1/2" OD x .540" ID	3000/4000 -172" FF
36	2	121-024	Bracket, Cylinder	3000/4000 -172" FF

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12.6.1 Chain Assembly - 3 Stage 172" Lift Full Free

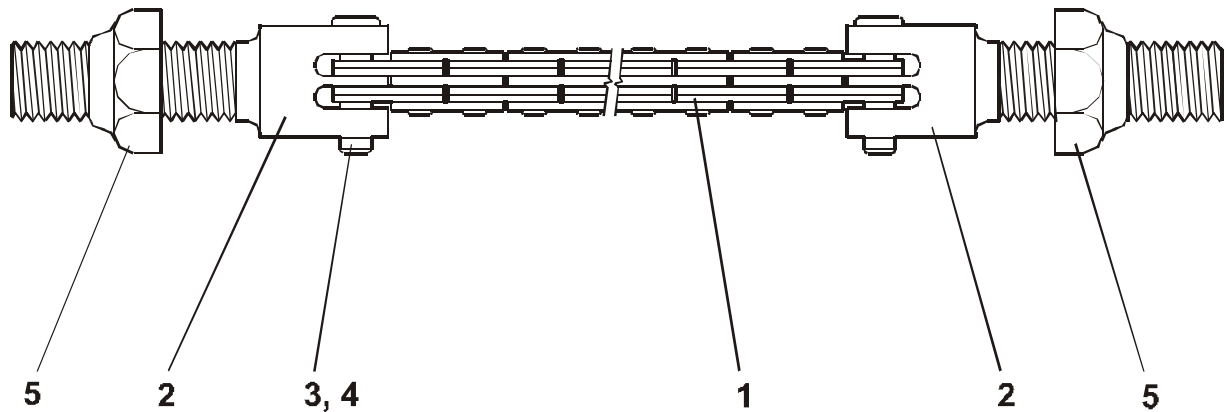


Figure 26 : Full Free Mast and Carriage Assembly - 172" Lift Height

Item	Qty	Part No	General Description	Specific Description
◀		103-5030-10	Ass'y, Chain - 44.5" LG	3000/4000 -172" FF
1	1	090-067-0444	Leaf, Chain - 44-1/2"	3000/4000 -172" FF
2	2	104-532	Clevis	3000/4000 -172" FF
3	2	105-372	Pin, Clevis 0.2"OD x 1-1/4" LG,	3000/4000 -172" FF
4	2	013-015	Pin, Cotter - 1/16" x 3/4"	3000/4000 -172" FF
5	2	011-535	Nut, Hex - 3/4"-10 Nylon Insert	3000/4000 -172" FF

12.6.2 Chain Assembly - 3 Stage 172" Lift Full Free

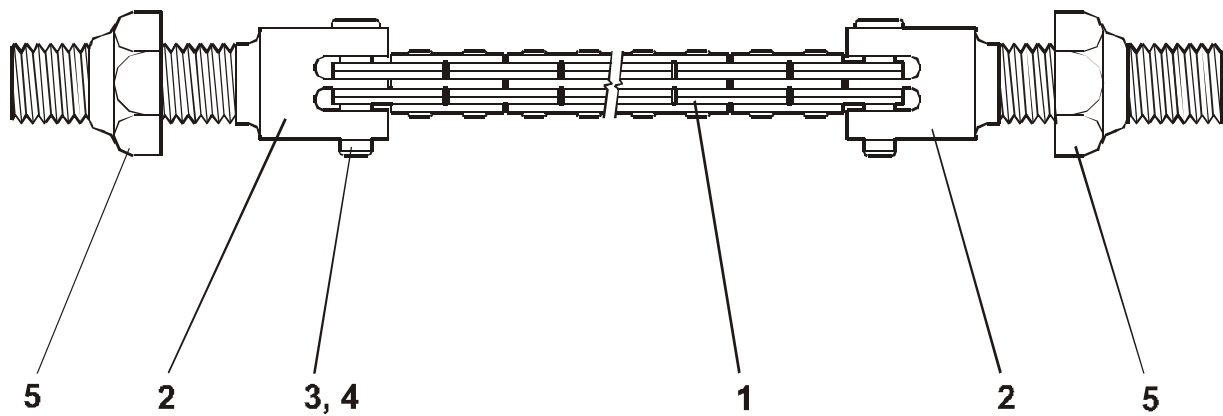


Figure 27 : Chain Assembly - 172" Lift Height

Item	Qty	Part No	General Description	Specific Description
◀		103-5030-15	Ass'y, Chain - 73.5"LG	3000/4000 -172" FF
1	1	090-067-0734	Leaf, Chain - 73-1/2"	3000/4000 -172" FF
2	2	104-532	Clevis	3000/4000 -172" FF
3	2	105-372	Pin, Clevis 0.2"OD x 1-1/4" LG,	3000/4000 -172" FF
4	2	013-015	Pin, Cotter - 1/16" x 3/4"	3000/4000 -172" FF
5	2	011-535	Nut, Hex - 3/4"-10 Nylon Insert	3000/4000 -172" FF

12.6.3 Crosshead Assembly - 3 Stage 172" Lift Full Free

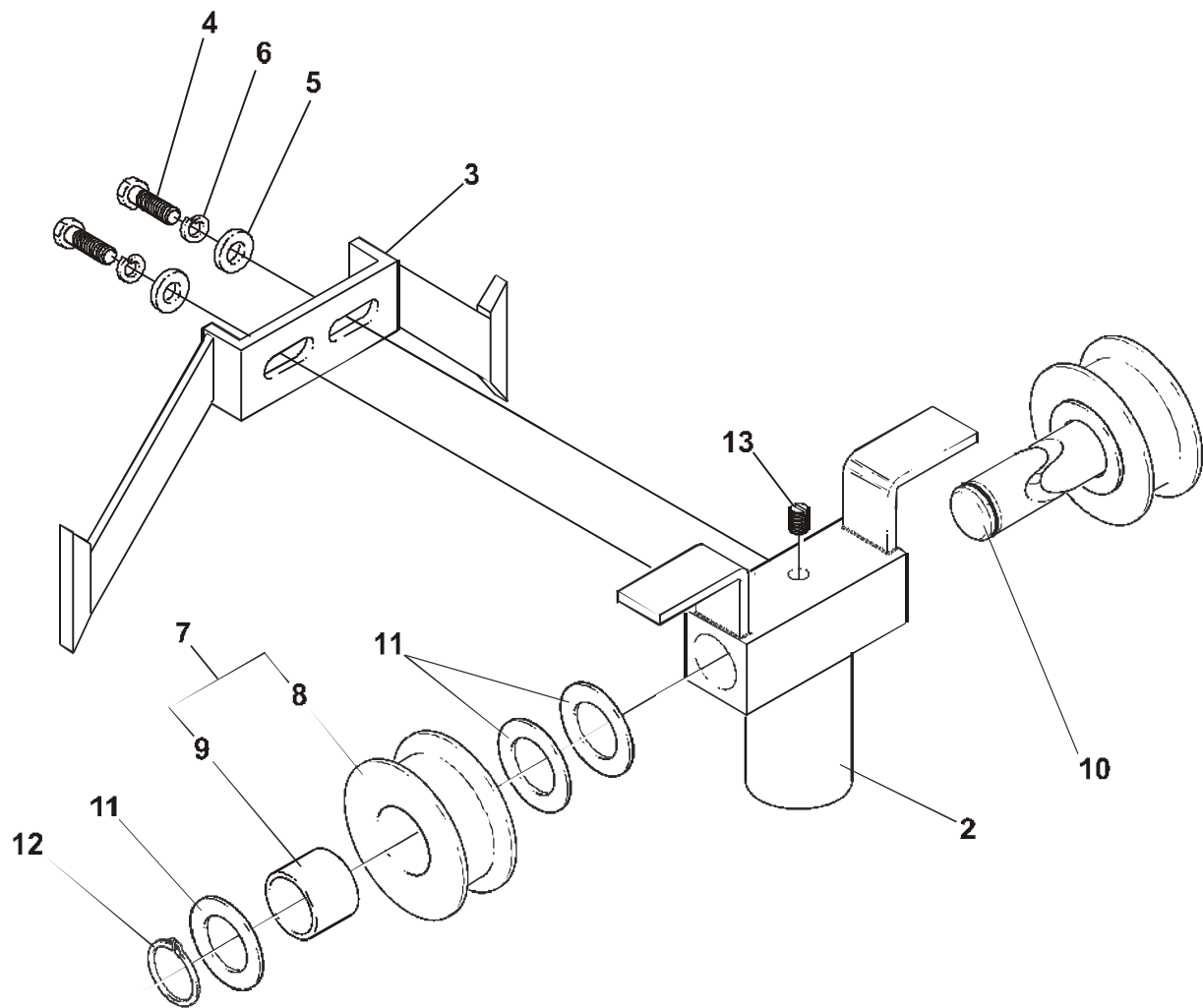


Figure 28 : Full Free Mast and Carriage Assembly - 172" Lift Height

12.6.4 Lift Cylinder Assembly - 3 Stage 172" Lift Full Free

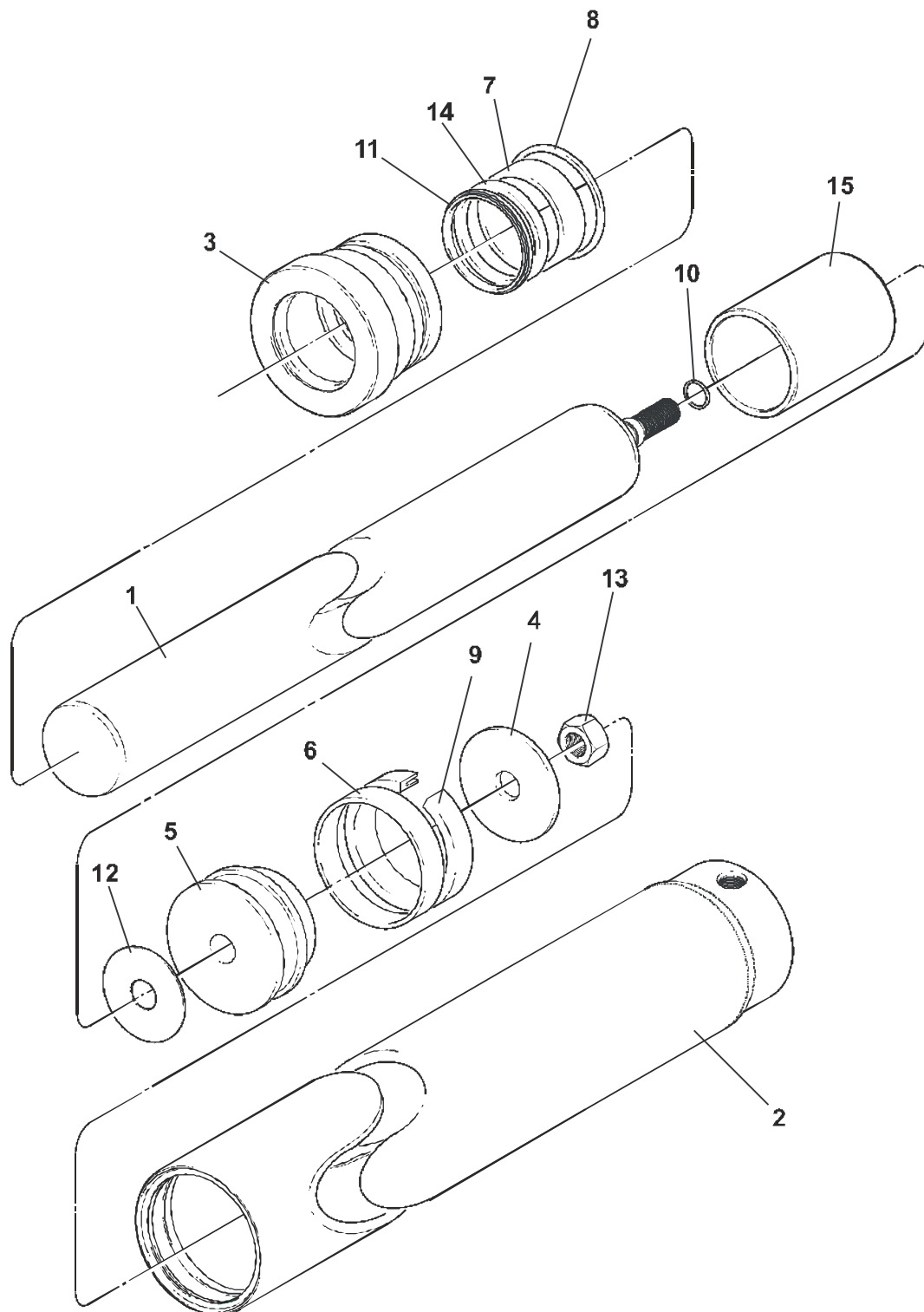


Figure 29 : Lift Cylinder Assembly - 172" Lift Height