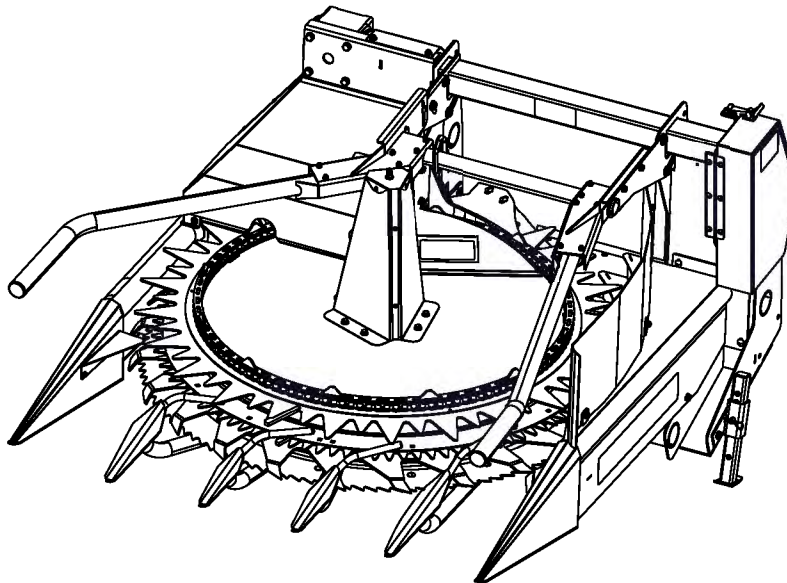




CH1402 2-Row Rotary Corn Head



Parts and Setup Manual



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Figure 1 1402 Corn Head Frame Assembly

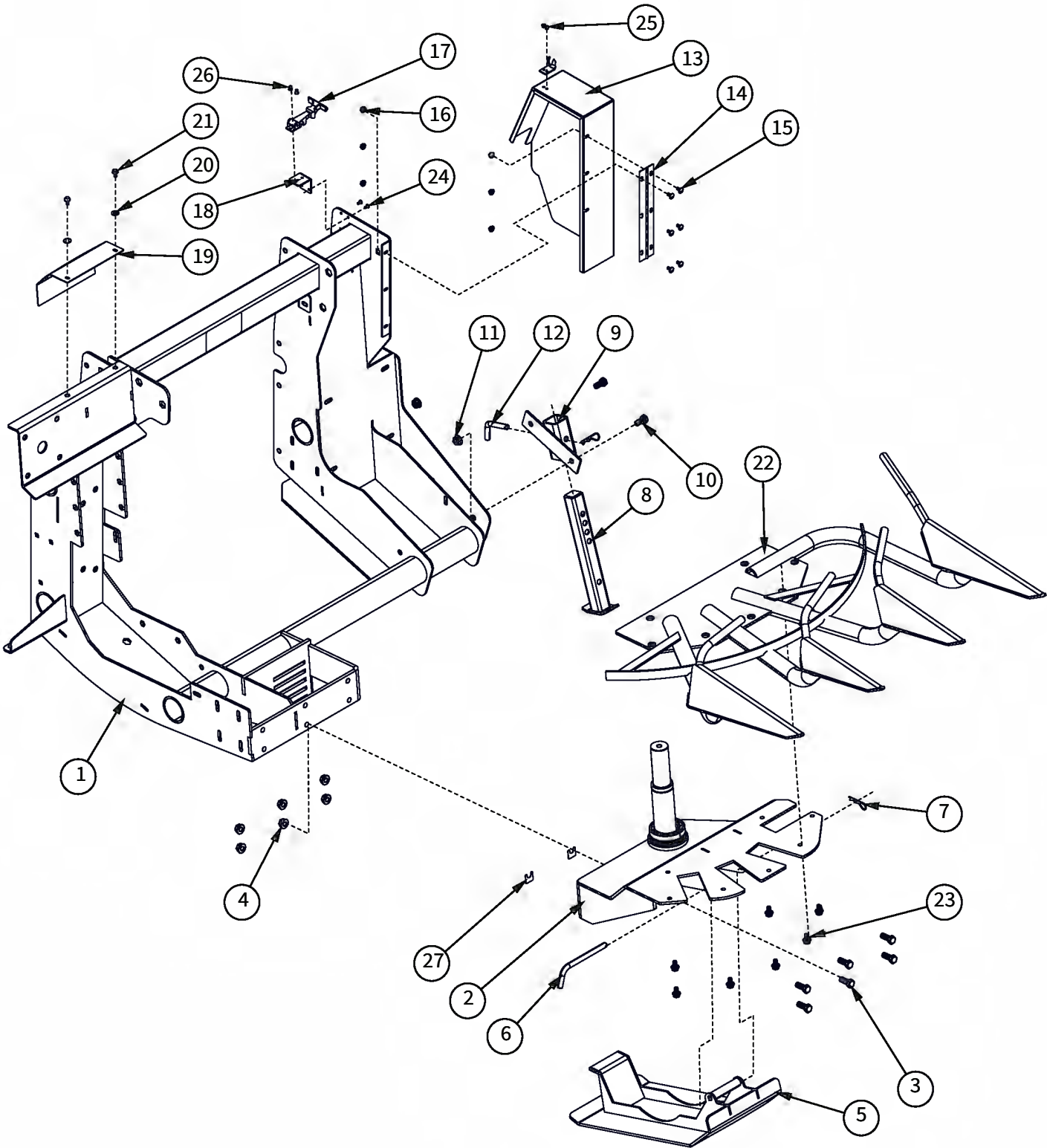


Figure 1 1402 Corn Head Frame Parts List

Item	Part Number	Description	Quantity
1	8001	1402 corn head frame	1
2	8004	1402 large rotor spindle frame	1
3	CS12x114G5	1/2" x 1 1/4" NC Gr5 cap screw zinc	6
4	FN12	1/2" NC serrated flange nut zinc	6
5	8020	1402 skid shoe assembly	1
6	8061	1402 skid shoe L-pin	1
7	CP18	Clip pin	1
8	8100	1402 adjustable left leg	1
9	8099	1402 adjustable left leg mount	1
10	CS12x1G5	1/2 x 1" NC Gr5 cap screw zinc	2
11	FN12	1/2" NC serrated flange nut zinc	8
12	8101	1402 adj. leg L-pin	1
13	8012	1402 left shield	1
14	8018	1402 shield hinge	1
15	CB14x12	1/4 x 1/2" NC carriage bolt zinc	6
16	FN14	1/4" NC serrated flange nut zinc	6
17	HC371	Rubber hood catcher	1
18	8078	1402 left shield latch	1
19	8075	1402 shaft cover	1
20	FW14	1/4" flat washer zinc	2
21	FB14x12G5	1/4 x 1/2" Gr5 flange bolt zinc	2
22	8029	1402 row divider	1
23	FB38x58G5	3/8 x 5/8" NC Gr5 serrated flange bolt zinc	7
24	44449	3/16 x 3/8" stainless steel rivet	2
25	44445	3/16 x 1/8" stainless steel rivet	2
26	BTT64	3/16 x 1/4" stainless steel rivet	2
27	8105	1402 rotor mount shim	3

Figure 2 Rotor Spindle And Clutch Assembly

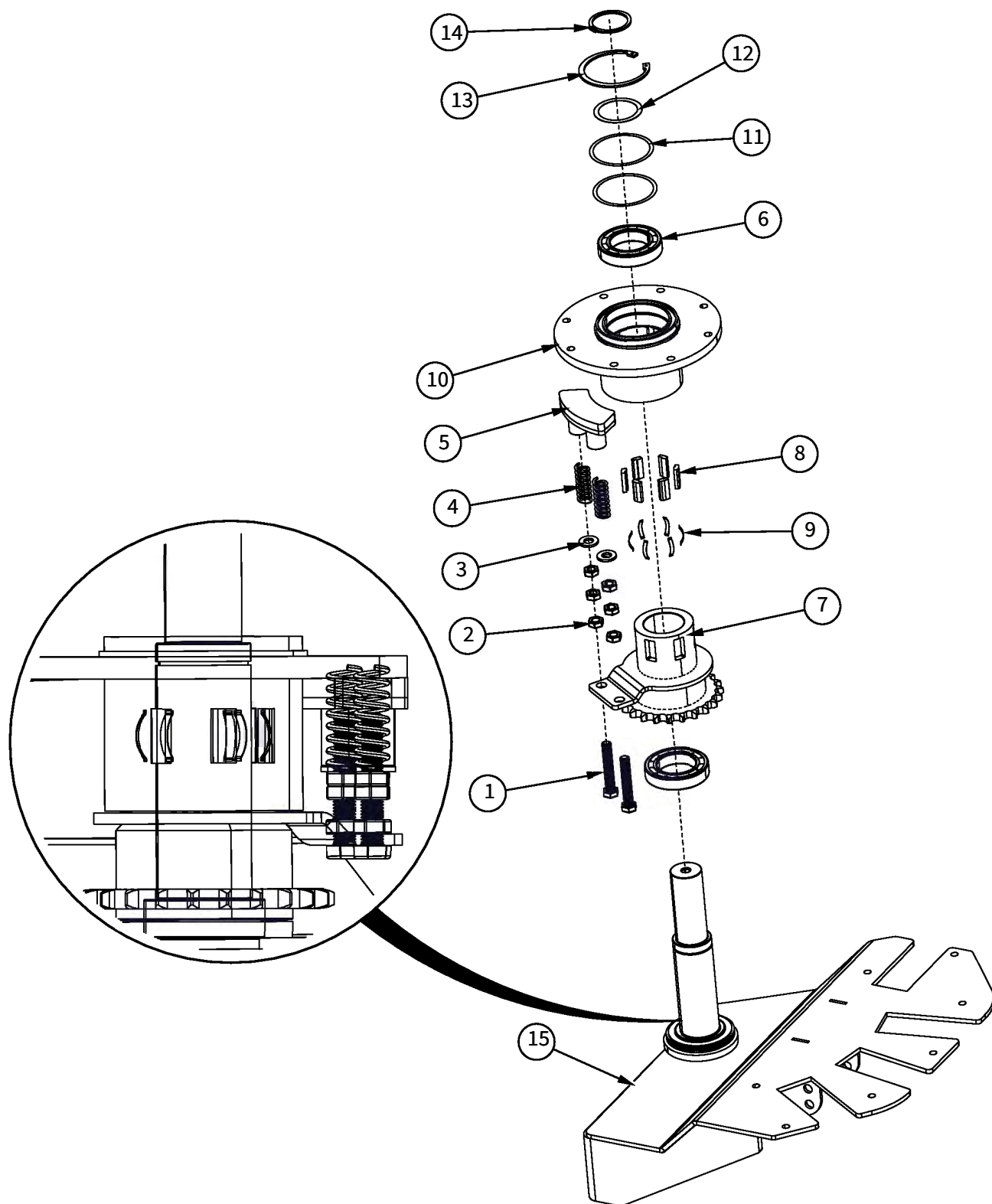


Figure 2 Rotor Spindle And Clutch Parts List

Item	Part Number	Description	Quantity
1	TB12x3G5	1/2" x 3" NC Gr5 tapping bolt	2
2	JM12	1/2" jam nut zinc	6
3	FW12SAE	1/2" SAE flat washer zinc	2
4	S770	Compress spring	2
5	8060	1402 blade brake pad	1
6	BR6011	Ball bearing	2
7	8063	Over running clutch center	1
8	M4610	Ratchet finger	6
9	SPF125	Flat spring	6
10	8062	1402 Rotor hub	1
11	SH80x90x0.1	80MM x 90MM x 0.1MM steel shim	as re'q
12	SH55x68x0.5	55MM x 68MM x .5MM steel shim	as re'q
13	SR90x3	Snap ring internal	1
14	SR55x2	Snap ring external	1
15	8004	1402 large rotor spindle frame	1

Figure 3 Clutch, Gear Box, Shafts, etc. Assemblies

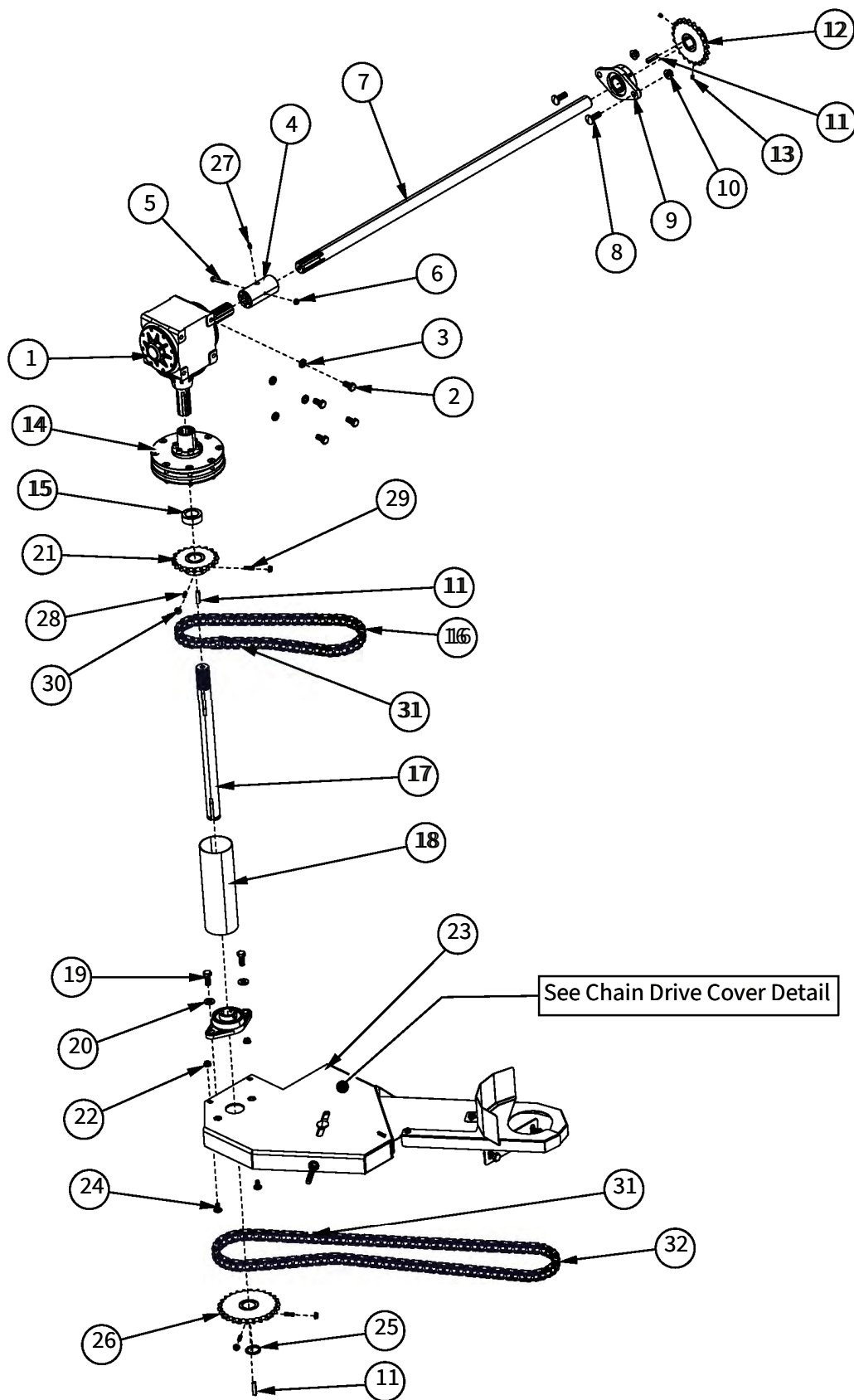


Figure 3 Clutch, Gear Box, Shafts, etc. Parts List

Item	Part Number	Description	Quantity
1	8009	1402 gearbox 90 degree	1
2	CS12x1G5	1/2 x 1" Gr5 cap screw zinc	4
3	LW12	1/2" lock washer	4
4	8102	1402 spline coupler	1
5	CS14x214G5	1/4 x 2 1/4" Gr5 NC cap screw zinc	1
6	FN14	1/4" NC serrated flange nut zinc	1
7	8040	1402 top drive shaft	1
8	CB12x112	1/2 x 1 1/2" Gr5 carriage bolt zinc	2
9	BR2071382B	Flange bearing	2
10	FN12	1/2" serrated flange nut	2
11	KEY516x516x112	5/16 x 5/16 x 1 1/2" long key	3
12	8055	Sprocket	1
13	SS516x516	5/16-18 x 5/16 set screw	2
14	8059	1402 slip clutch	1
15	SC138	Shaft collar	1
16	8117	Drive chain	1
17	8042	1402 vertical shaft	1
18	8011	1402 vertical shaft guard	1
19	CS12x114G5	1/2 x 1 1/4" Gr5 cap screw zinc	2
20	FW12SAE	1/2" SAE flat washer zinc	2
21	8057	Sprocket	1
22	FN38	3/8" serrated flange nut	2
23	8028	1402 chain drive cover	1
24	CB38x34	3/8 x 3/4" carriage bolt zinc	2
25	SR7200-137	HD External snap ring	1
26	8056	Sprocket	1
27	GF1008	1/4"-28 straight male grease zerk	1
28	SS516x34	5/16-18 x 3/4 set screw	2
29	SS516x1	5/16-18 x 1 set screw	2
30	FN516	5/16" serrated flange nut	4
31	CL600RC	Chain connector	2
32	8116	Drive chain	1

Figure 4 Chain Drive Cover Assembly

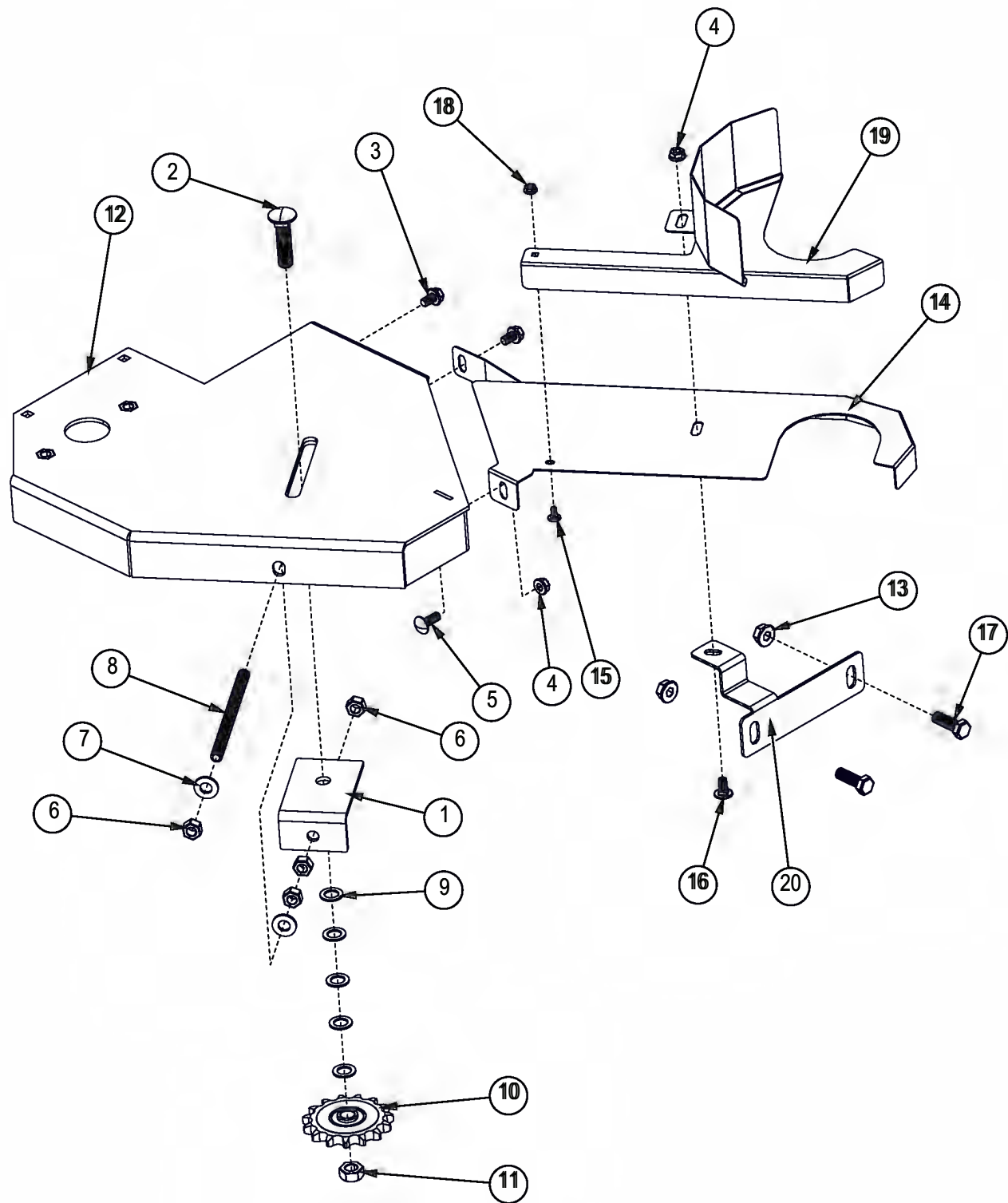


Figure 4 Chain Drive Cover Parts List

Item	Part Number	Description	Quantity
1	8072	1402 chain tightener	1
2	CB58x212	5/8 x 2 1/2" carriage bolt zinc	1
3	FB38x58G5	3/8 x 5/8" Gr5 serrated flange bolt	2
4	FN38	3/8" serrated flange nut	2
5	CB38x1	3/8 x 1" carriage bolt zinc	1
6	N12	1/2" NC nut zinc	4
7	FW12SAE	1/2" SAE flat washer zinc	2
8	8008	1402 blade drive threaded rod	1
9	MW58	5/8" machinery washer 14Ga	5
10	SPR6015	Idler sprocket	1
11	LN58S	5/8" stover (steel) lock nut zinc	1
12	8028	1402 chain drive cover	1
13	FN12	1/2"NC serrated flange nut zinc	2
14	8113	Chain shield	1
15	CB14x12	1/4 x 1/2" NC carriage bolt zinc	1
16	CB38x34	3/8 x 3/4" carriage bolt zinc	1
17	CS12x112G5	1/2 x 1 1/2" NC cap screw zinc	2
18	FN14	1/4" NC serrated flange nut zinc	1
19	8114	Chain shield	1
20	8115	Chain shield brace	1

Figure 5 Rotor and Blade Assemblies

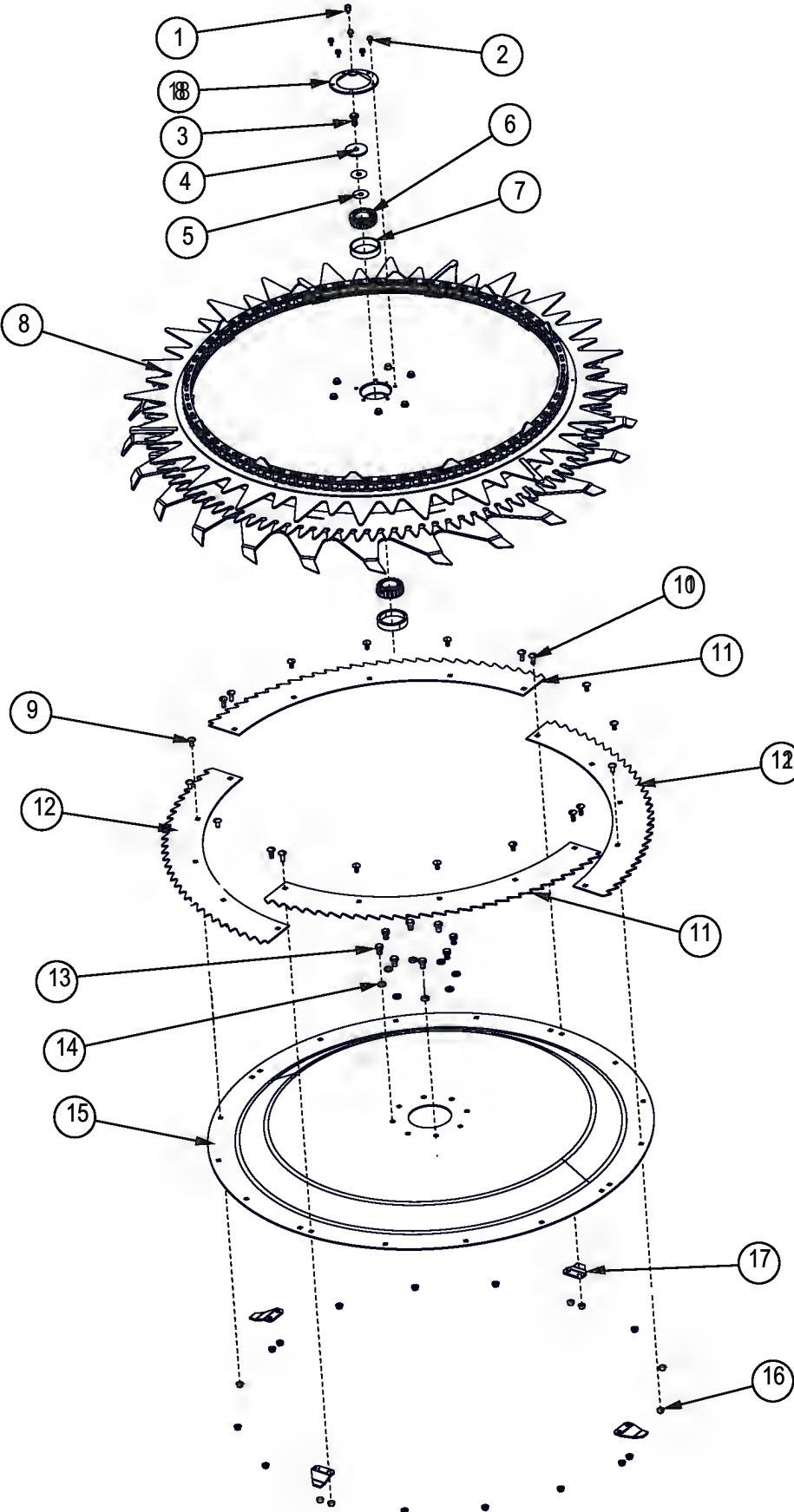


Figure 5 Rotor and Blade Parts List

Item	Part Number	Description	Quantity
1	32032	Threaded adapter 1/4-28 to 1/8" NPT	1
2	FB14x12G5	1/4 x 1/2" Gr5 NC serrated flange bolt	5
3	CS12x1G5	1/2 x 1" Gr5 cap screw zinc	1
4	8080	1402 bearing washer	1
5	8103	1402 rotor bearing shim	1
6	BR25580	Tapered roller bearing	As re'q
7	BR25520	Bearing race	2
8	8002	1402 large rotor	1
9	CB38x34	3/8 x 3/4" carriage bolt zinc	12
10	CB38x1	3/8 x 1" carriage bolt zinc	8
11	8068	Yellow 1402 blade	1
12	8069	Black 1402 blade	1
13	CS12x34G5	1/2 x 3/4" Gr5 cap screw zinc	8
14	LW12	1/2" lock washer	8
15	8003	1402 blade rotor	1
16	FN38	3/8" serrated flange nut	20
17	8104	1402 rotor blade wacker	4
18	8079	Rotor cap	1

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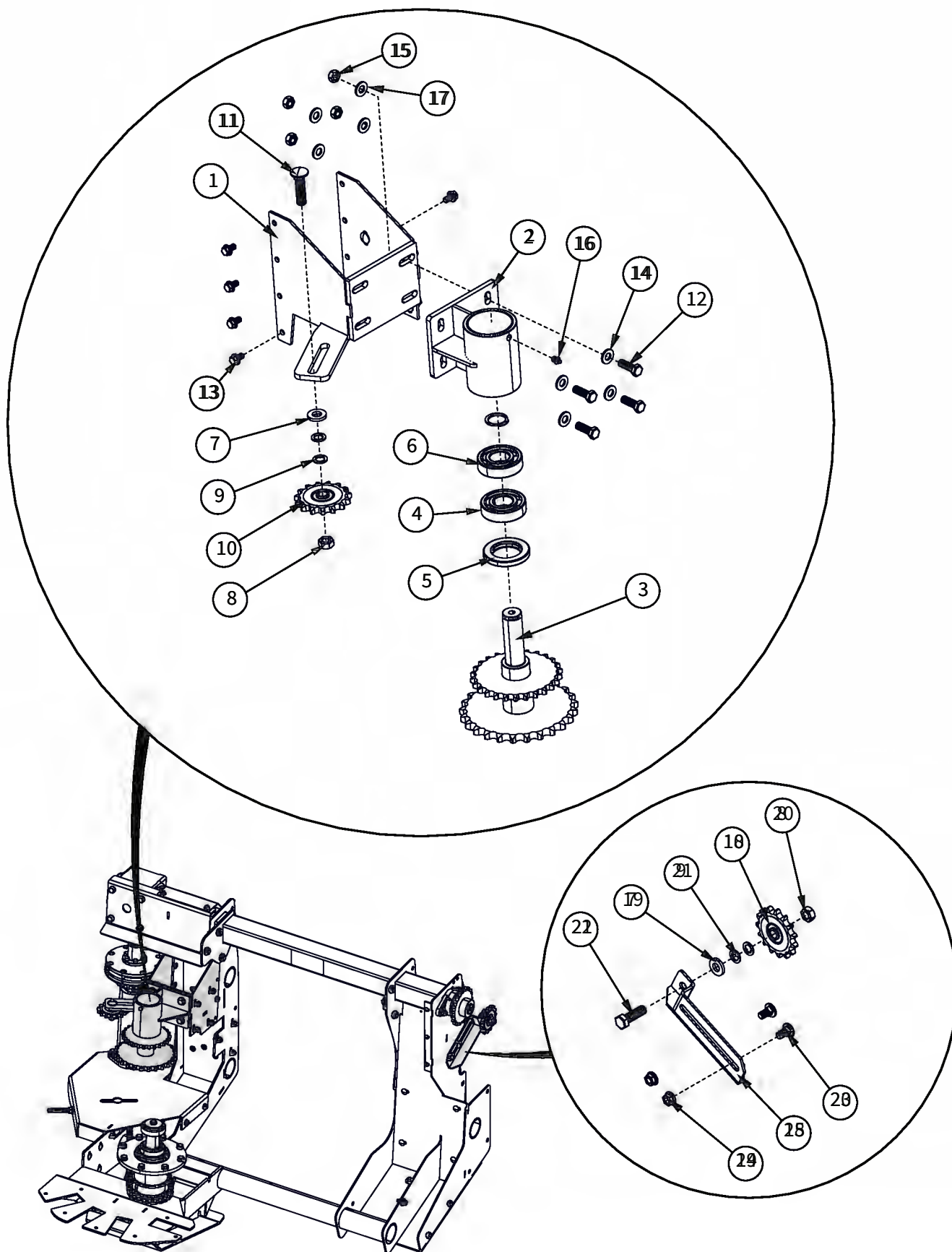


Figure 6 8015 Main Rotor Drive Parts List

Item	Part Number	Description	Quantity
1	8015	1402 main rotor drive	1
2	8107	1402 HD rotor drive	1
3	8108	1402 HD rotor drive shaft	1
4	BR6307	Ball bearing	2
5	OS20109	Oil seal	1
6	SR7200-137	HD external snap ring	1
7	FW58G8SAEM	5/8" Gr8 SAE mega flat washer	2
8	LN58S	5/8" Stover (steel) locknut zinc	2
9	MW58	5/8" machinery washer 14Ga.	4
10	SPR6015	Idler sprocket	2
11	CB58x212	5/8 x 2 1/2" NC carriage bolt zinc	1
12	CS12x112G5	1/2 x 1 1/2" NC cap screw zinc	4
13	FB38x58G5	3/8 x 5/8" NC Gr5 serrated flange bolt zinc	5
14	FW12SAE	1/2" SAE flat washer zinc	4
15	LN12S	1/2" Stover (steel) locknut zinc	4
16	GF1011	1/8" NPT straight male grease zerk	1
17	FW12SAE	1/2" SAE flat washer zinc	4
18	8088	1402 left chain idler	1
19	FN12	1/2" NC serrated flange nut zinc	2
20	CB12x1	1/2 x 1" NC carriage bolt zinc	2
21	CS58x2G5	5/8 x 2" NC Gr5 cap screw zinc	1

Figure 7 Cleaners and Deflector Assemblies

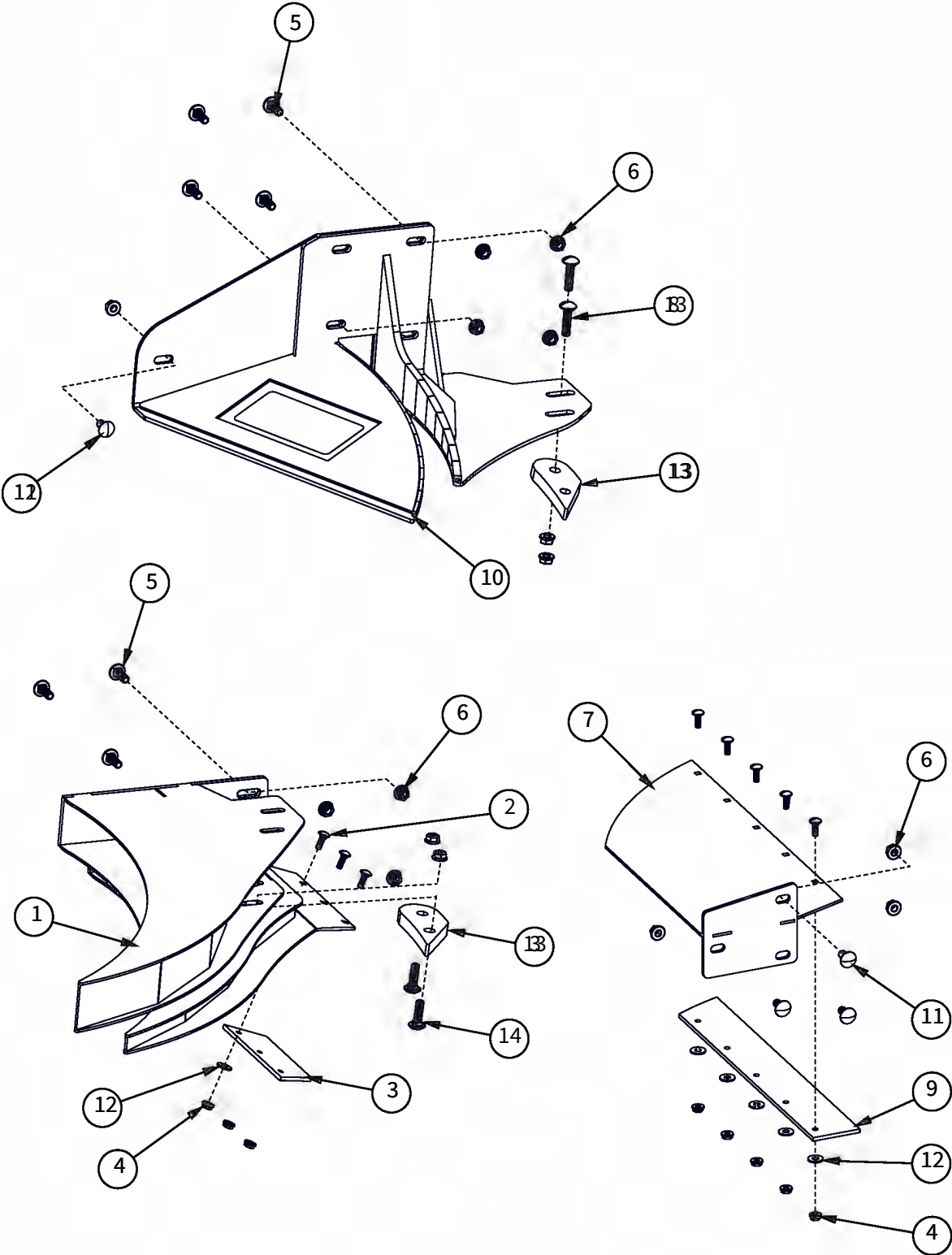


Figure 7 Cleaners and Deflector Parts List

Item	Part Number	Description	Quantity
1	8013	1402 right cleaner	1
2	CB14x34	1/4 x 3/4" carriage bolt zinc	8
3	8053	1402 right feed roll rubber strip	1
4	FN14	1/4" serrated flange nut	8
5	CB38x1	3/8 x 1" carriage bolt zinc	7
6	FN38	3/8" flange nut zinc	15
7	8014	1402 left floor	1
8	CB38x112	3/8 x 1 1/2" carriage bolt zinc	2
9	8053	1402 left feed roll rubber strip	1
10	8016	1402 top cleaner	1
11	CB38x34	3/8 x 3/4" carriage bolt zinc	4
12	FW14	1/4" flat washer	6
13	8112	Middle cleaner spacer	2
14	CB38x114	3/8 x 1-1/4" carriage bolt zinc	2

Figure 8 Left Snout and Shield Assembly

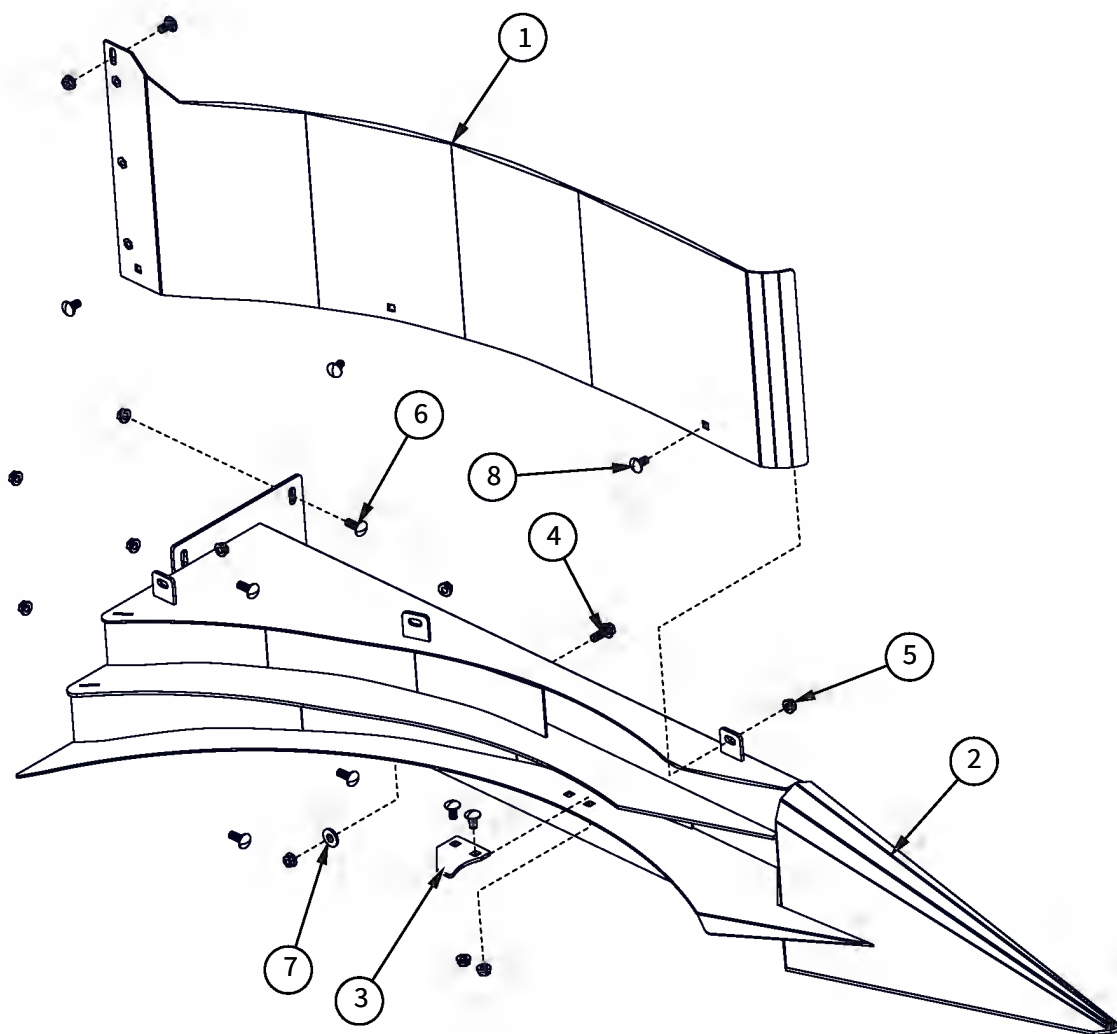


Figure 8 Left Snout and Shield Parts List

Item	Part Number	Description	Quantity
1	8070	Left intake shield	1
2	8007	1402 left snout	1
3	8081	Stationary blade wacker	1
4	FB38x1G5	3/8 x 1" Gr5 serrated flange bolt	1
5	FN38	3/8" NC serrated flange nut zinc	11
6	CB38x1	3/8 x 1" NC carriage bolt zinc	4
7	FW38	3/8" flat washer	1
8	CB38x34	3/8 x 3/4" NC carriage bolt zinc	6

Figure 9 Right Snout and Shield Assembly

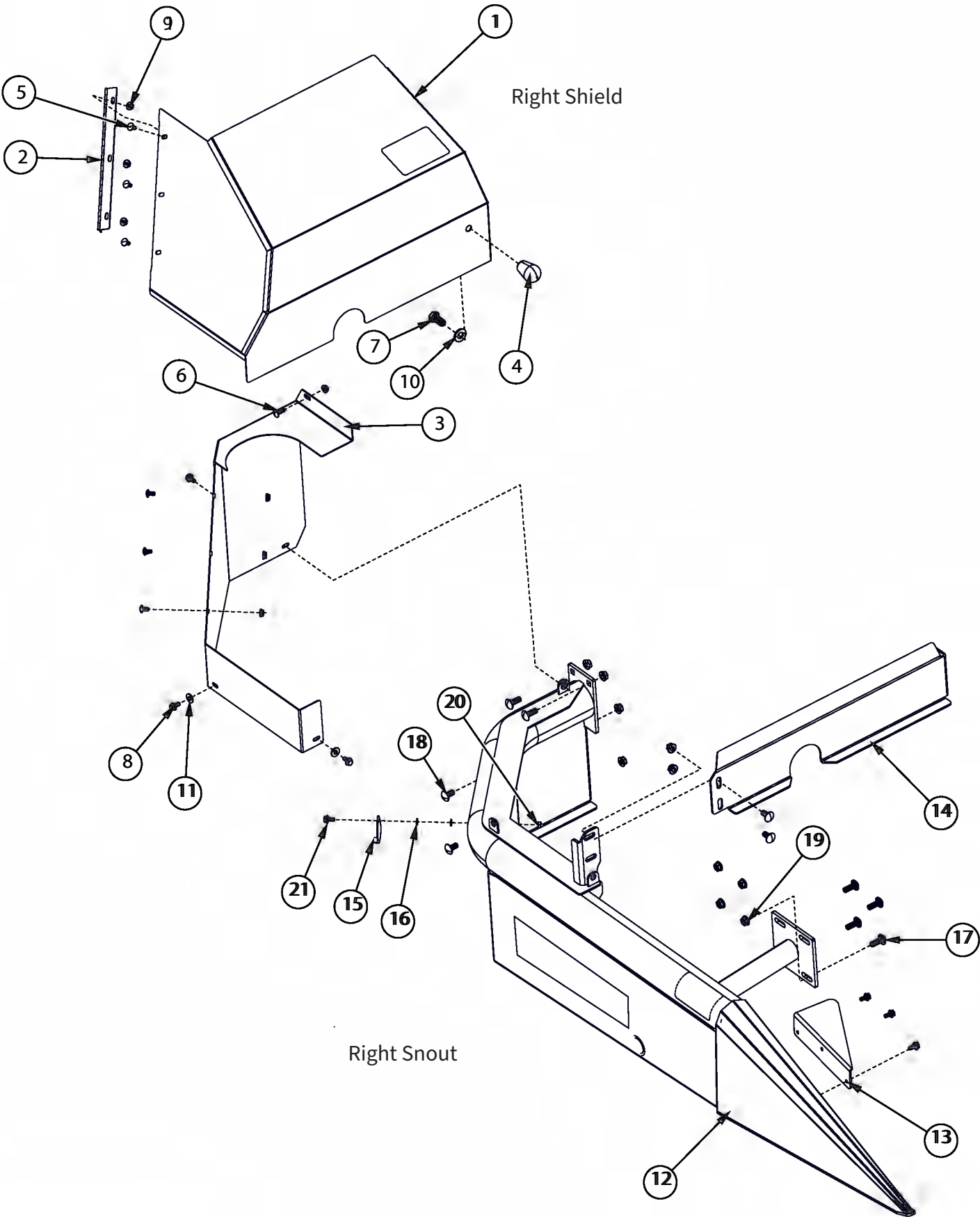


Figure 9 Right Snout and Shield Parts List

Right Shield

Item	Part Number	Description	Quantity
1	8111	1402 right shield lid	1
2	8018	1402 shield hinge	1
3	8110	1402 right shield	1
4	KB3088	Tear drop knob	1
5	CB14x12	1/4 x 1/2" NC carriage bolt zinc	6
6	CB14x34	1/4 x 3/4" carriage bolt zinc	1
7	CS12x1G5	1/2 x 1" Gr5 cap screw zinc	1
8	FB14x12G5	1/4 x 1/2" G5 NC serrated flange bolt zinc	3
9	FN14	1/4" serrated flange nut zinc	7
10	FW12SAE	1/2" SAE flat washer zinc	1
11	FW14	1/4" flat washer zinc	2

Right Snout

Item	Part Number	Description	Quantity
12	8006	1402 right snout	1
13	8071	1402 right snout deflector	1
14	8073	1402 reverse top cleaner	1
15	8082	1402 oiler hole cover	1
16	FW14N	1/4" nylon flat washer	2
17	CB38x1	3/8 x 1" NC carriage bolt zinc	6
18	CB38x34	3/8 x 3/4" NC carriage bolt zinc	4
19	FN38	3/8" NC serrated flange nut zinc	10
20	LN14S	1/4"-20 steel locknut	1
21	FB14x12G5	1/4 x 1/2" G5 NC serrated flange bolt zinc	4

Figure 10 Bull Horn and Rotor Cone Assemblies

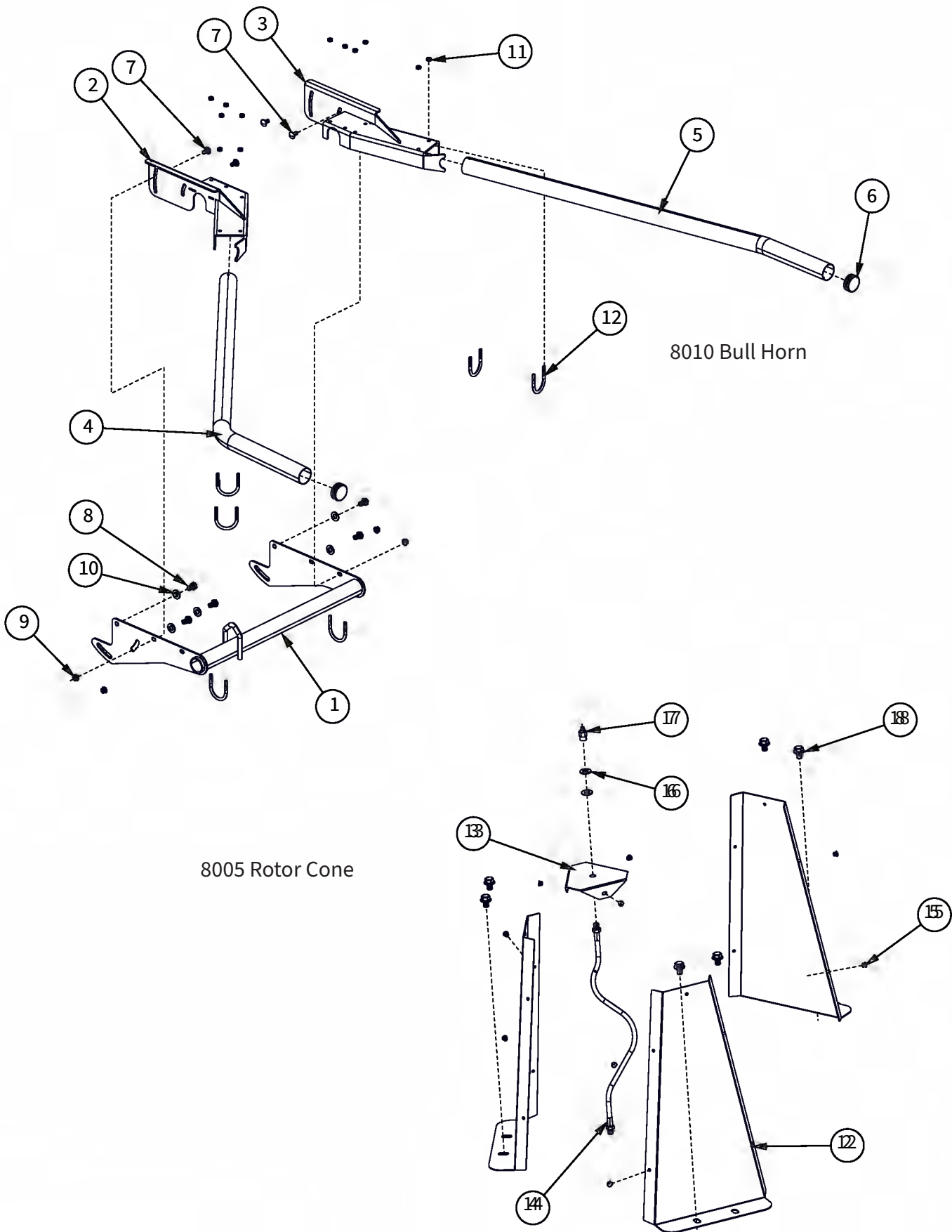


Figure 10 Bull Horn and Rotor Cone Parts List**8010 Bull Horn**

Item	Part Number	Description	Quantity
1	8010	1402 bull horn mount	1
2	8064	1402 right bull horn mount	1
3	8065	1402 left bull horn mount	1
4	8066	1402 right bull horn	1
5	8067	1402 left bull horn	1
6	7007	Plastic plug	2
7	CB38x34	3/8 x 3/4" carriage bolt zinc	4
8	CS12x34G5	1/2 x 3/4" Gr5 zinc cap screw	5
9	FN38	3/8" serrated flange nut zinc	4
10	FW12SAE	1/2" SAE flat washer zinc	5
11	LN516S	5/16" stover (steel) locknut zinc	12

8005 Rotor Cone

Item	Part Number	Description	Quantity
	8005	1402 rotor cone assembly (includes items 12-18)	1
12	8077	1402 rotor cone side panel	3
13	8076	1402 rotor cone cap	1
14	GH26	Grease hose	1
15	44445	3/16" x 1/8" ss rivet	9
16	FW38SAE	3/8" SAE flat washer zinc	2
17	GF1009	1/8" NPT straight female grease zerk	1
18	FB38x12	3/8 x 1/2" serrated flange bolt zinc	6

Figure 11 230 and 240 FP Mounts and Deflector Assembly

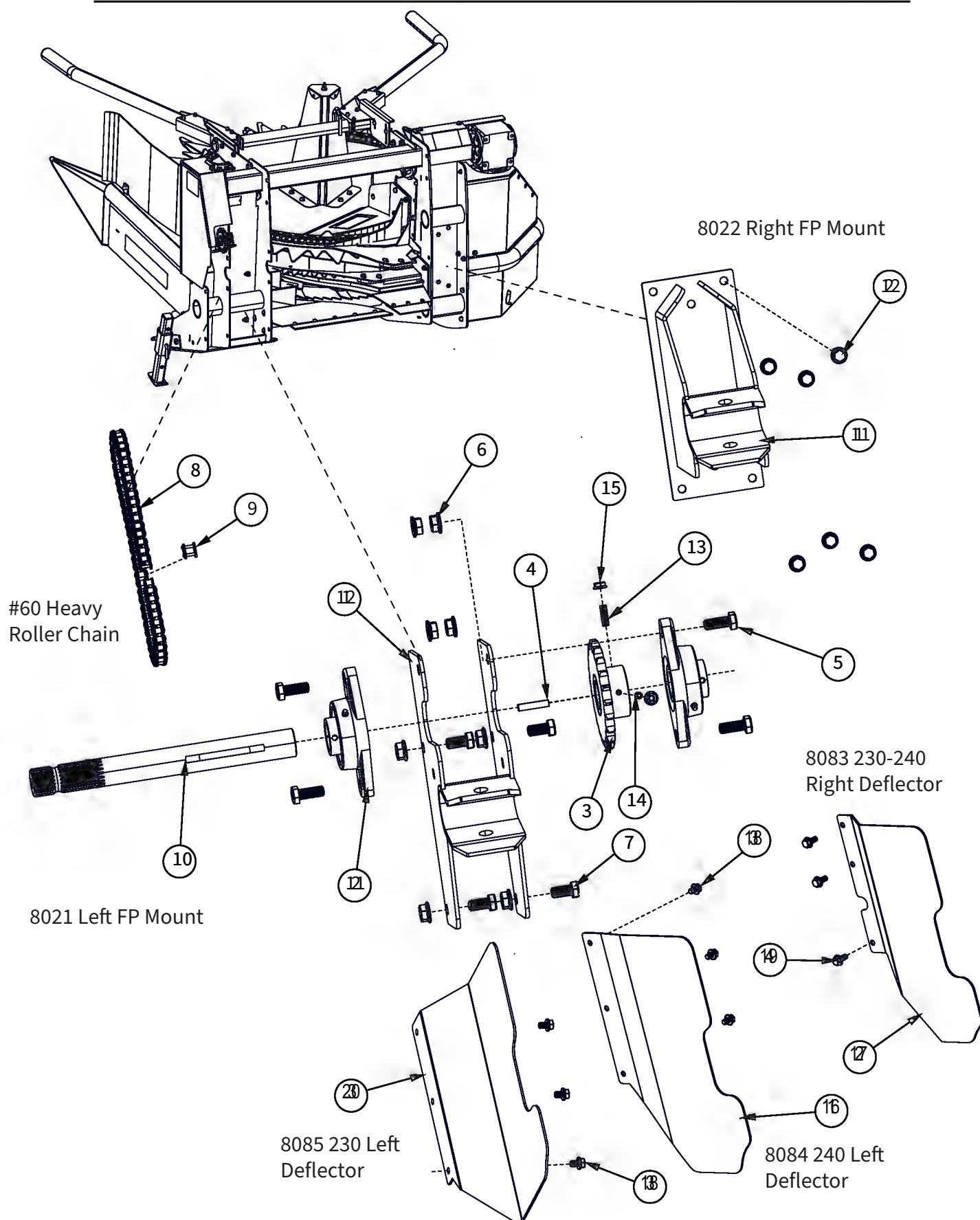


Figure 11 230 and 240 FP Mounts and Deflector Parts List

8022 Right FP Mount

Item	Part Number	Description	Quantity
1	8022	1402 right FP mount	1
2	FB38x58G5	3/8 x 5/8" Gr5 serrated flange bolt zinc	6

8021 Left FP Mount

Item	Part Number	Description	Quantity
3	8055	Sprocket	1
4	KEY516x516	5/16 x 5/16 x 1 1/2" key	1
5	CS12x114G5	1/2 x 1 1/4" Gr5 cap screw zinc	4
6	FN12	1/2" serrated flange nut zinc	8
7	CS12x1G5	1/2 x 1" Gr5 cap screw zinc	4
8	8118	Drive chain	1
9	CL600RC	Chain connector	1
10	8044	Drive shaft	1
11	BR2071382B	Flange bearing	2
12	8021	1402 left FP mount	1
13	SS516x1	5/16-18 x 1 set screw	1
14	SS516x34	5/16-18 x 3/4 set screw	1
15	FN516	5/16" serrated flange nut	2

8083, 8084 and 8085 230 and 240 FP Left and Right Deflectors

Item	Part Number	Description	Quantity
16	8084	1402 240 left deflector	1
17	8083	1402 (230-240) right deflector	1
18	FB38x12	3/8 x 1/2" Gr5 serrated flange bolt zinc	3
19	FB38x34G5	3/8 x 3/4" Gr5 serrated flange bolt zinc	3
20	8085	1402 230 left deflector	1

Figure 12 892-900 Mounts and Deflector Assembly

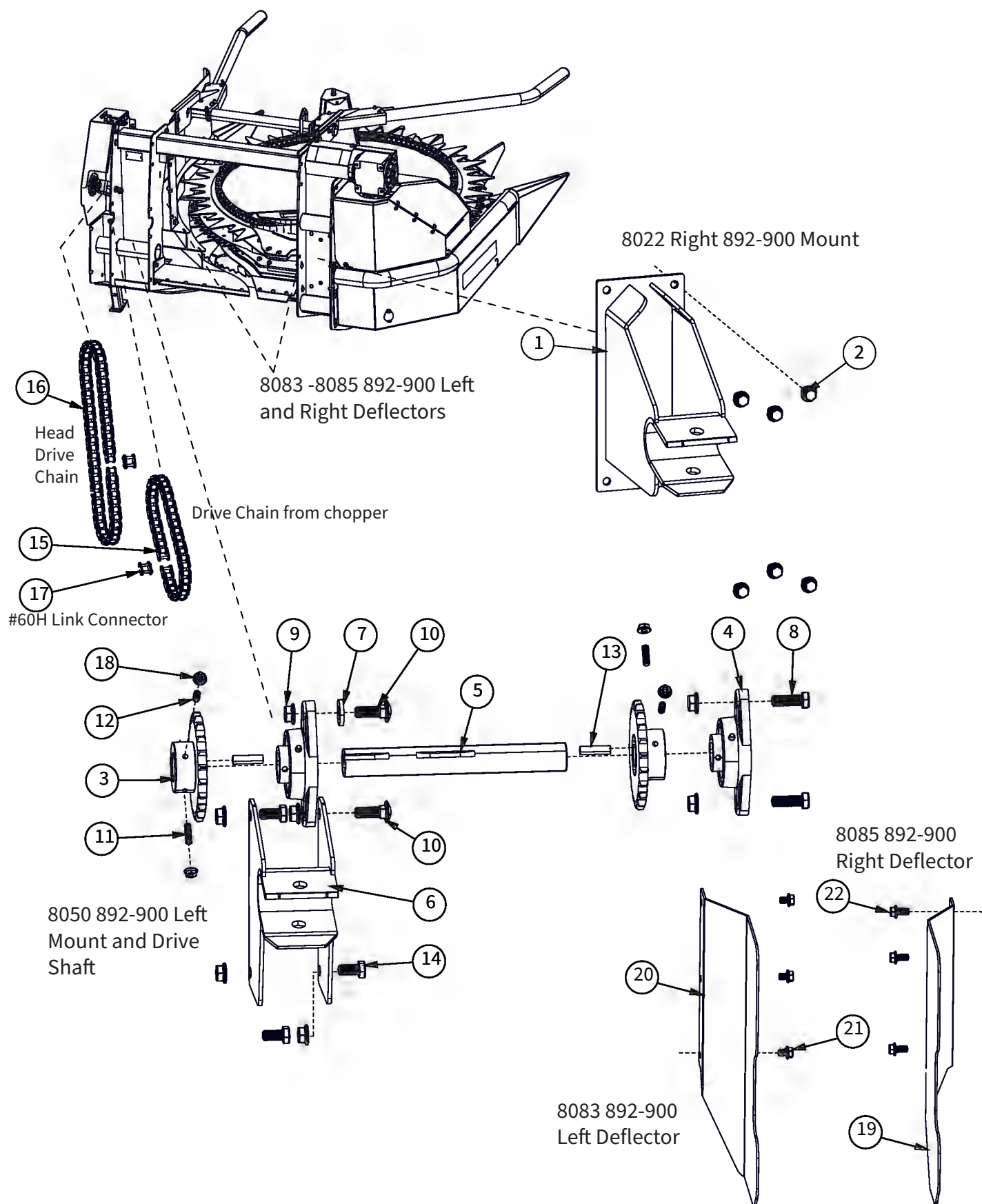


Figure 12 892-900 Mounts and Deflector Parts List

8022 892-900 Right Mount

Item	Part Number	Description	Quantity
1	8022	1402 right FP mount & 892 mount	1
2	FB38x58G5	3/8 x 5/8" Gr5 serrated flange bolt zinc	6

8050 892-900 Left Mount and Drive Shaft

Item	Part Number	Description	Quantity
3	8055	Sprocket	2
4	BR2071382B	Flange Bearing	2
5	8047	892 Drive shaft	1
6	8050	1402 892-900 left mount	1
7	FW58G8SAEM	5/8"Gr8 SAE mega flat washer	1
8	CS12x112G5	1/2 x 1 1/2" Gr5 cap screw zinc	2
9	FN12	1/2" serrated flange nut zinc	7
10	CB12x112	1/2 x 1 1/2" carriage bolt zinc	2
11	SS516x1	5/16-18 x 1 set screw	
12	SS516x34	5/16-18 x 3/4 set screw	8
13	KEY516x516x112	5/16 x 5/16 x 1 1/2" key	2
14	CS12x1G5	1/2 x 1" Gr5 cap screw zinc	3
15	8119	Drive chain	1
16	8120	Drive chain	1
17	CL600RC	Chain connector	1
18	FN516	5/16" serrated flange nut zinc	1

8083 and 8085 892-900 Left and Right Deflector

Item	Part Number	Description	Quantity
19	8083	1402 FP right deflector	1
20	8085	1402 230 left deflector	1
21	FB38x12	3/8 x 1/2" Gr5 serrated flange bolt zinc	3
22	FB38x34G5	3/8 x 3/4" Gr5 serrated flange bolt zinc	3

Figure 13 790 Mounts and Deflector Assembly

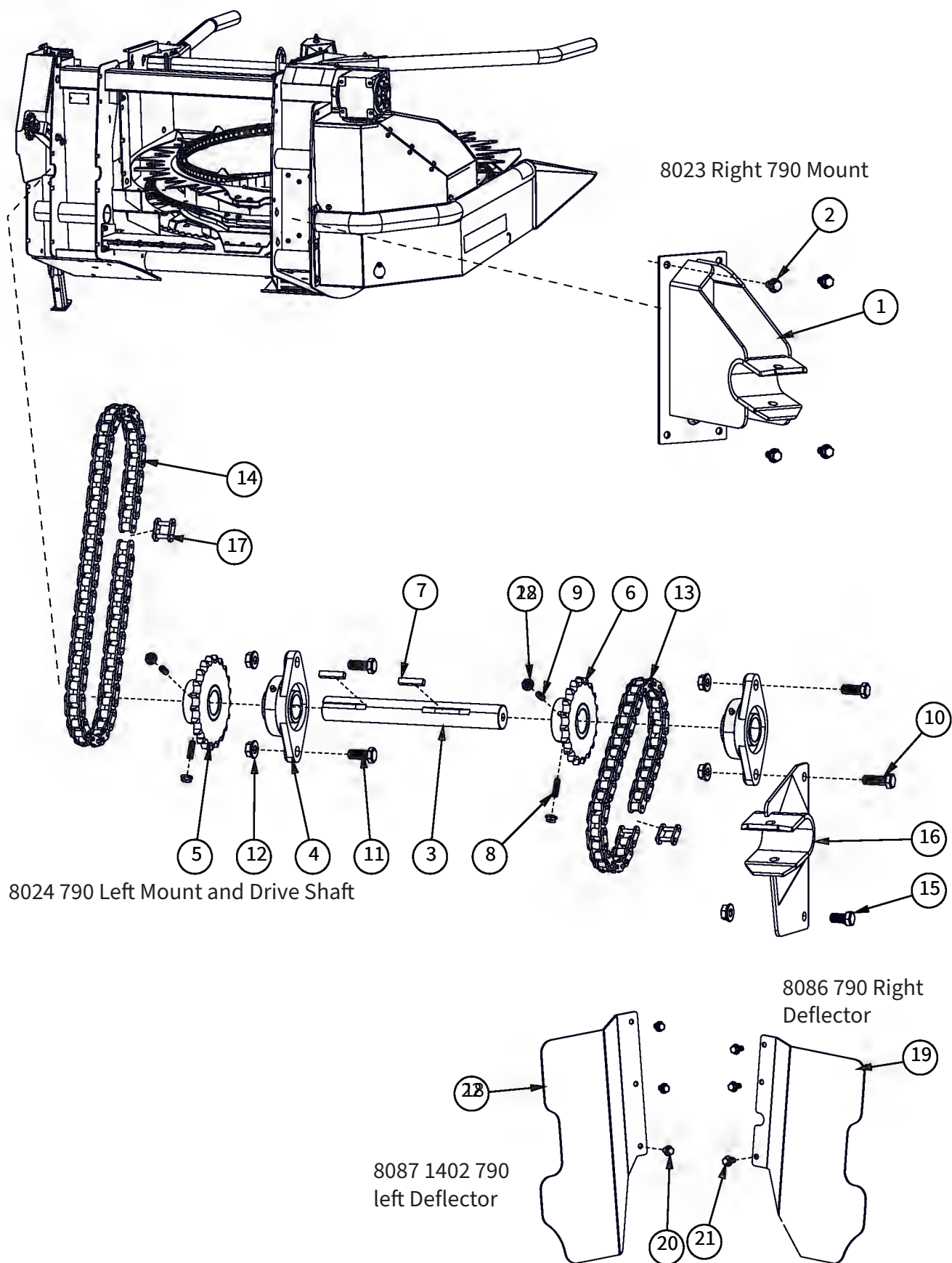


Figure 13 790 Mounts and Deflector Parts List

8023 1402 790 Right Mount

Item	Part Number	Description	Quantity
1	8023	1402 right 790 mount	1
2	FB38x58G5	3/8 x 5/8" Gr5 serrated flange bolt zinc	6

8024 1402 790 Left Mount and Drive Shaft

Item	Part Number	Description	Quantity
3	8045	790 drive shaft	1
4	BR2071382B	Flange bearing	2
5	8055	Sprocket	1
6	8057	Sprocket	1
7	KEY516x516x112	5/16 x 5/16 x 1 1/2" key	2
8	SS516x1	5/16-18 x 1 set screw	2
9	SS516x34	5/16-18 x 3/4 set screw	2
10	CS12x112G5	1/2 x 1 1/2" Gr5 cap screw zinc	1
11	CS12x114G5	1/2 x 1 1/4" Gr5 cap screw zinc	3
12	FN12	1/2" serrated flange nut zinc	5
13	8121	Drive chain	1
14	8119	Drive chain	1
15	CS12x1G5	1/2 x 1" Gr5 cap screw zinc	1
16	8024	1402 790 left mount	1
17	CL600RC	Chain connector	2
18	FN516	5/16" serrated flange nut zinc	4

8086-8087 790 Left and Right Deflector

Item	Part Number	Description	Quantity
19	8086	1402 790 right deflector	1
20	FB38x12	3/8 x 1/2" Gr5 serrated flange bolt zinc	3
21	FB38x34G5	3/8 x 3/4" Gr5 serrated flange bolt zinc	3
22	8087	1402 790 left deflector	1

Figure 14 JD Mounts and Deflector Assembly

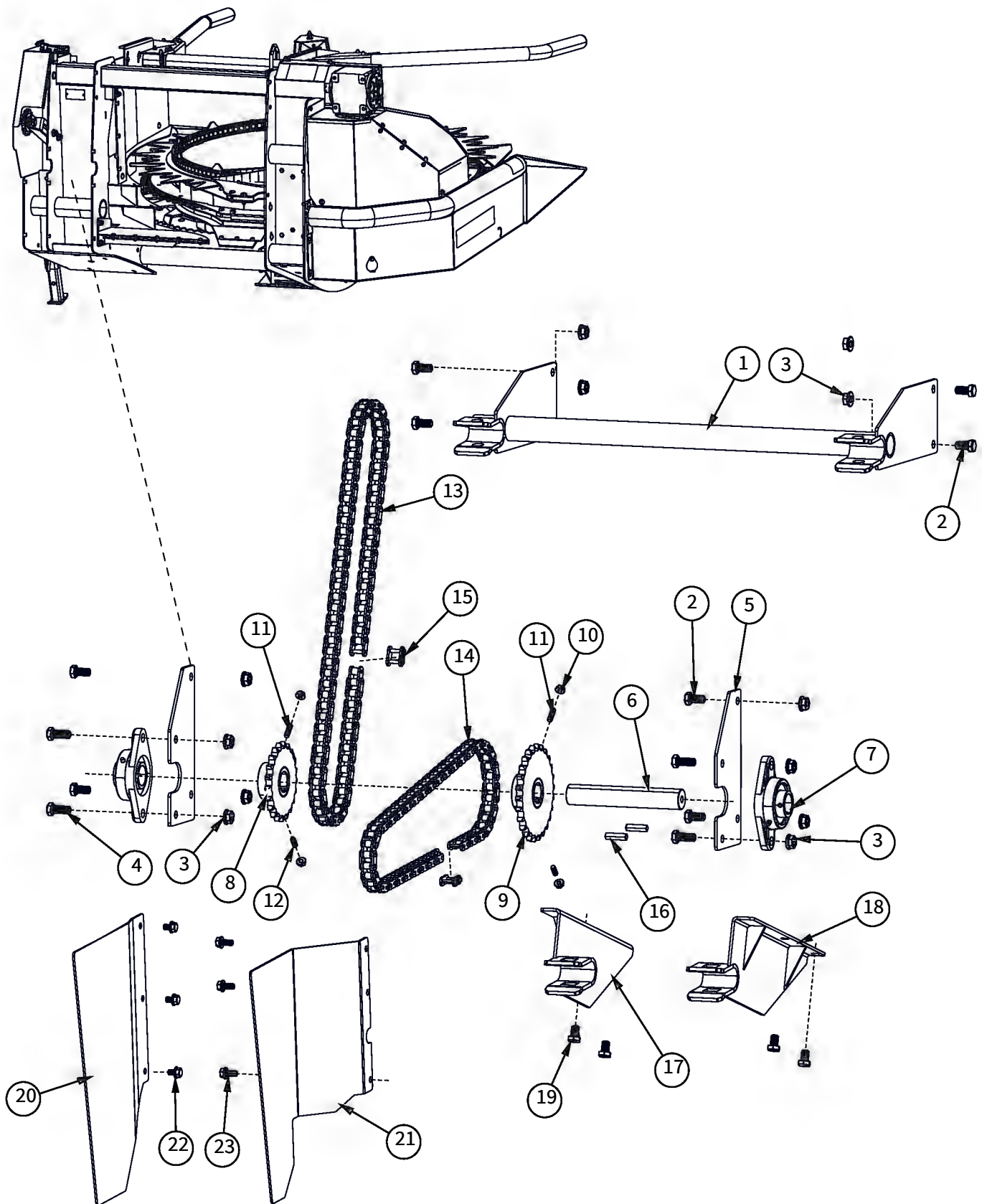


Figure 14 JD Mounts and Deflector Parts List

John Deere 3970 and 3950 Drives, Top, Bottom Left and Right Mounts

Item	Part Number	Description	Quantity
1	8025	1402 JD top mount	1
2	CS12x1G5	1/2 x 1" Gr5 cap screw zinc	8
3	FN12	1/2" serrated flange nut zinc	12
4	CS12x114G5	1/2 x 1 1/4" Gr5 cap screw zinc	4
5	8091	JD left bearing mount	1
6	8046	JD drive shaft	1
7	BR2071382B	Flange bearing	2
8	8055	Sprocket	1
9	8056	Sprocket	1
10	FN516	5/16" serrated flange nut	4
11	SS516x1	5/16 x 1" set screw	2
12	SS516x34	5/16-18 x 3/4 set screw	2
13	8122	Drive Chain	1
14	8123	Drive Chain	1
15	CL600RC	Chain Connector	2
16	KEY516x516x112	5/16 x 5/16 x 1 1/2" key	2
17	8027	1402 JD lower left mount	1
18	8026	1402 JD lower right mount	1
19	CS12x34G5	1/2 x 3/4" Gr5 cap screw zinc	4
20	8089	1402 JD 3970 left deflector	1
21	8090	1402 JD right deflector	1
22	FB38x12	3/8 x 1/2" Gr5 serrated flange bolt zinc	3
23	FB38x34	3/8 x 3/4" Gr5 serrated flange bolt zinc	3

Figure 15 Gehl Mounts and Deflector Assembly

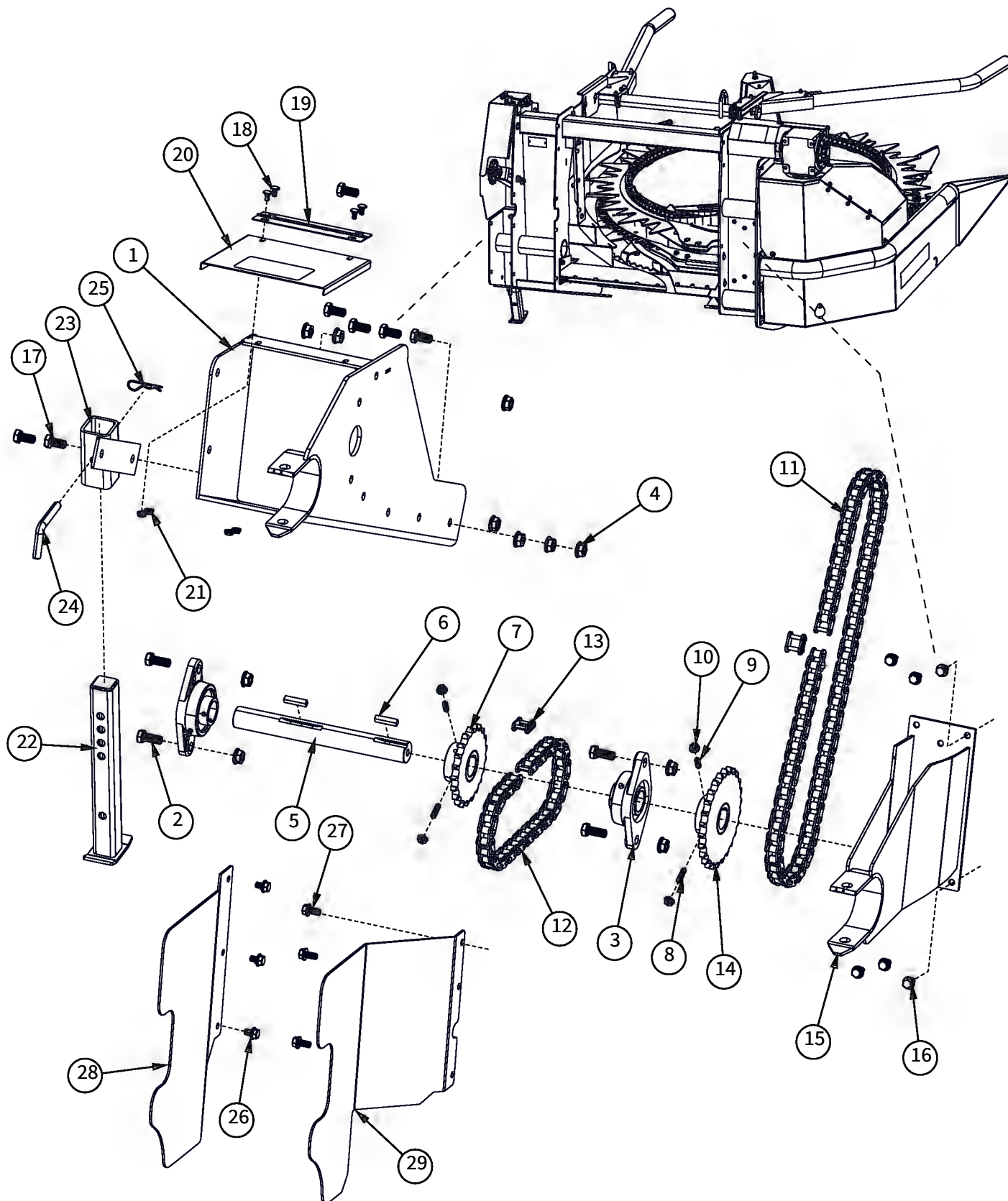


Figure 15 Gehl Mounts and Deflector Parts List

Gehl 1075 and 1275 Drives, Top, Bottom Left and Right Mounts

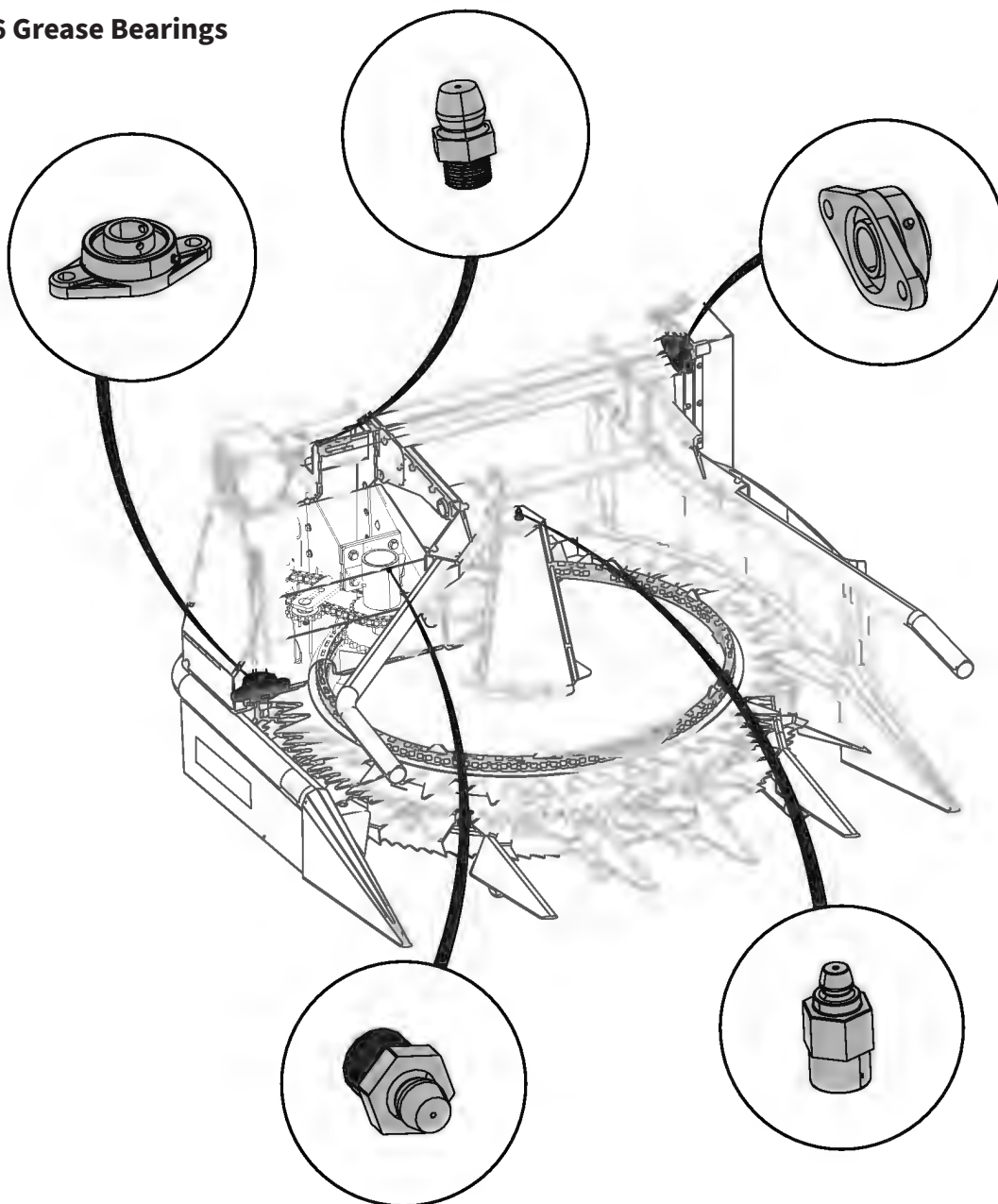
Item	Part Number	Description	Quantity
1	8052	1402 Gehl left mount	1
2	CS12x114G5	1/2 x 1 1/4" NC Gr5 cap screw zinc	4
3	BR2071382B	Flange bearing	2
4	FN12	1/2" NC serrated flange nut zinc	11
5	8048	Gehl drive shaft	1
6	KEY516x516x112	5/16" x 5/16" x 1 1/2" Key	2
7	8055	Sprocket	1
8	SS516x1	5/16 x 1" set screw	2
9	SS516x34	5/16-18 x 3/4 set screw	2
10	FN516	5/16" serrated flange nut	4
11	8124	Drive chain	1
12	8125	Drive chain	1
13	CL600RC	Chain connector	2
14	8056	Sprocket	1
15	8051	1402 Gehl right mount	1
16	FB38x58G5	3/8 x 5/8" NC Gr5 serrated flange bolt	6
17	CS12x1G5	1/2 x 1 NC Gr5 cap screw zinc	7
18	CB14x12	1/4 x 1/2" NC carriage bolt zinc	4
19	8019	1402 Gehl chain cover hinge	1
20	8093	1402 Gehl chain cover	1
21	FN14	1/4" NC serrated flange nut zinc	4
22	8100	1402 adjustable left leg	1
23	8099	1402 adjustable left leg mount	1
24	8101	1402 adj. leg L-pin	1
25	CP18	Clip pin	1
26	FB38x12	3/8 x 1/2" Gr5 serrated flange bolt zinc	3
27	FB38x34G5	3/8 x 3/4" Gr5 serrated flange bolt zinc	3
28	8096	1402 1075 left deflector	1
29	8097	1402 1075 right deflector	1

CH1402 2-ROW ROTARY CORN HEAD

Maintenance

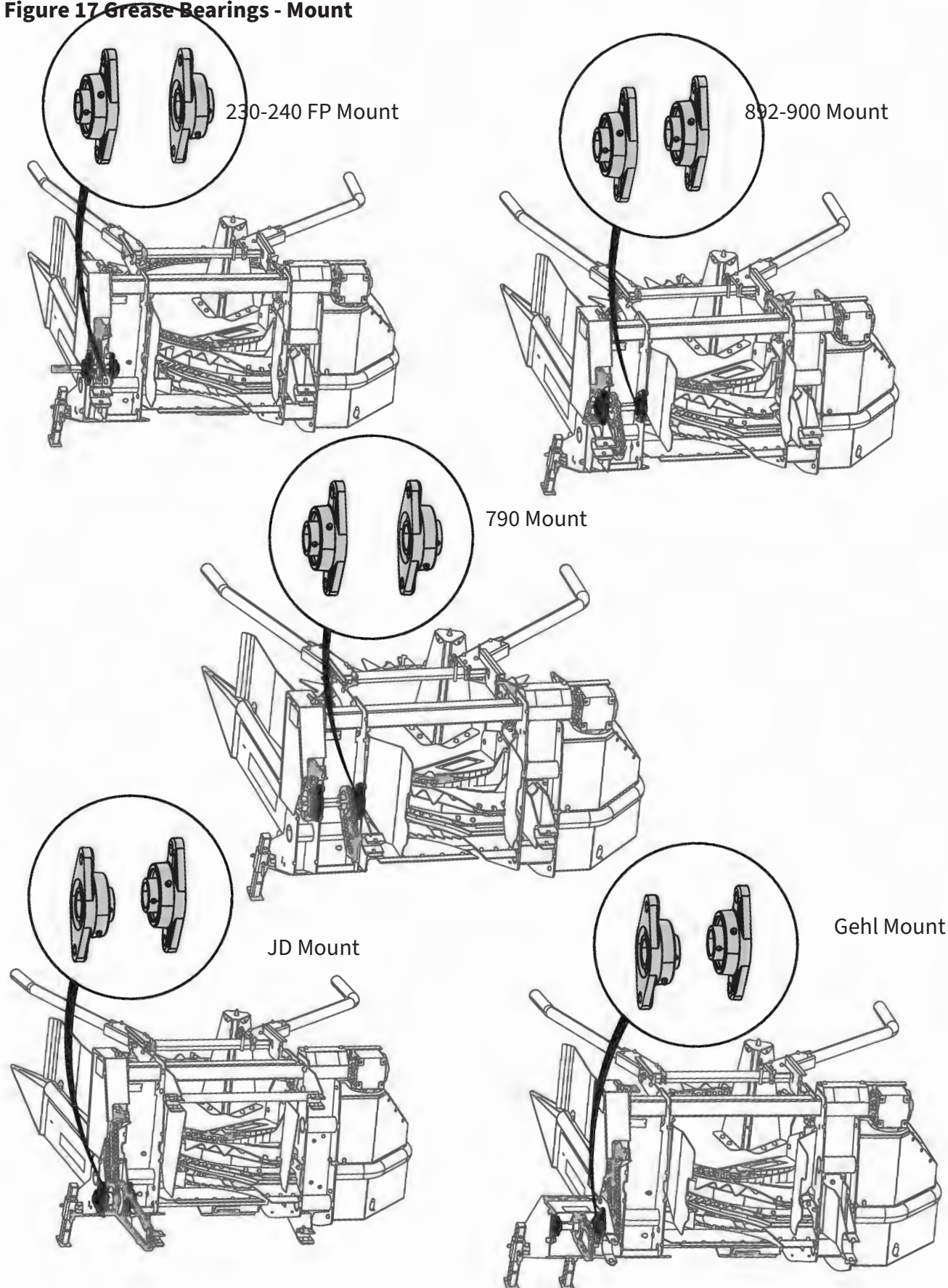
Interval	10 hours or daily	Yearly	
Grease all bearings	X		See Figure 16 & Figure 17
Tighten Chains	X		See Figure 18
Check blade cleaners or wackers		X	See Figure 19
Loosen & slip friction drive clutch until warm		X	See Figure 20
Check and add oil to gearbox		X	See Figure 21

Figure 16 Grease Bearings



Maintenance

Figure 17 Grease Bearings - Mount



Maintenance

Figure 18 Tighten chains

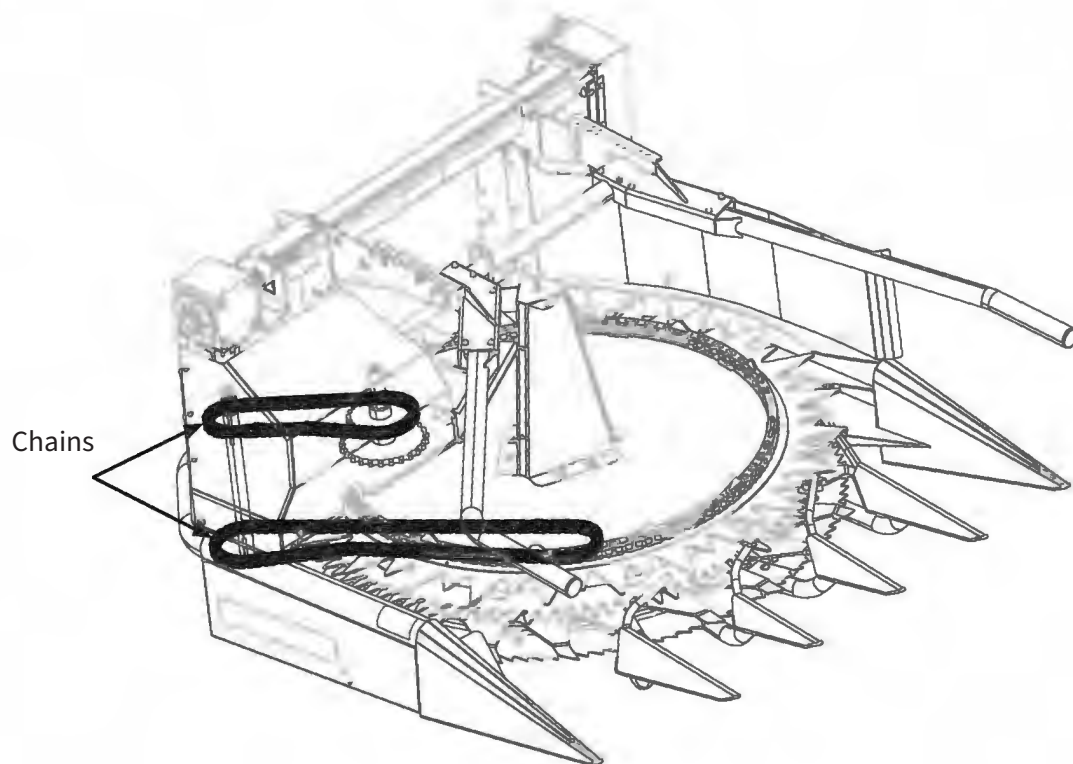
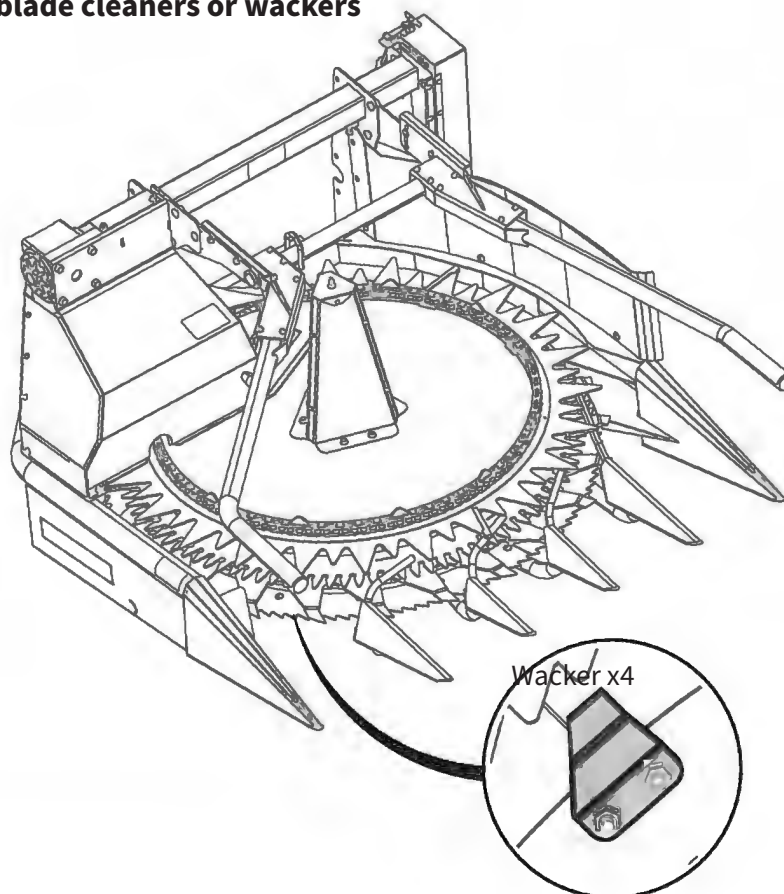


Figure 19 Check blade cleaners or wackers



Maintenance

Figure 20 Loosen and slip friction drive clutch until warm

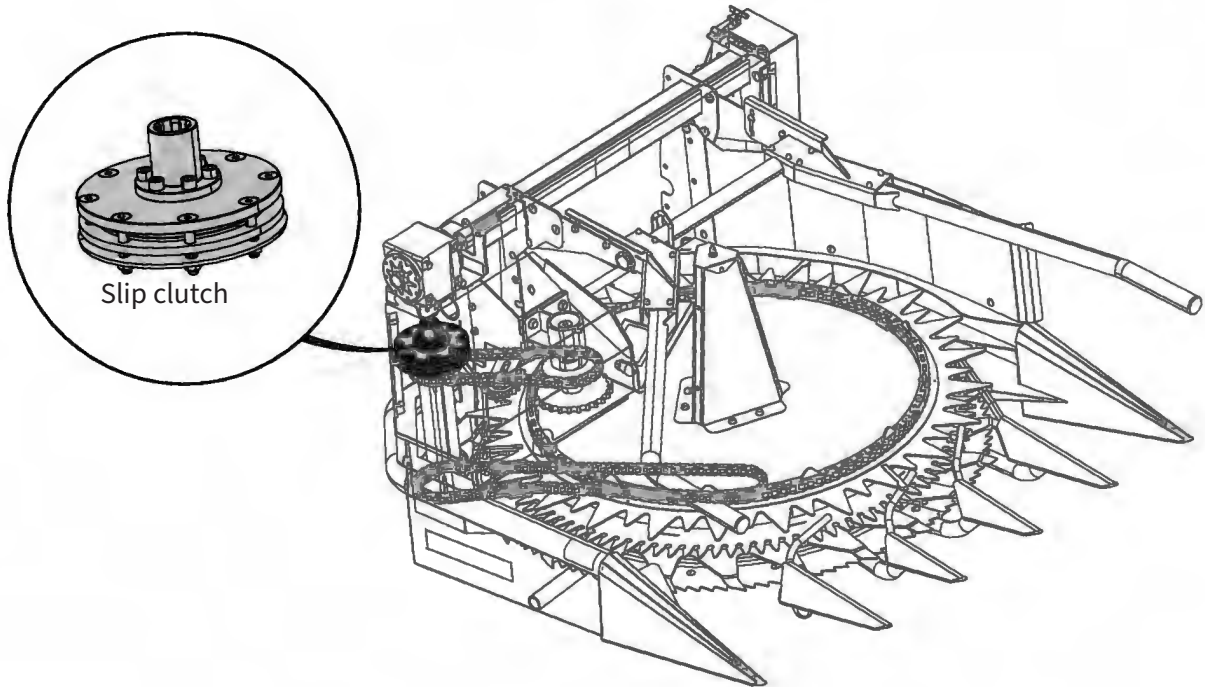
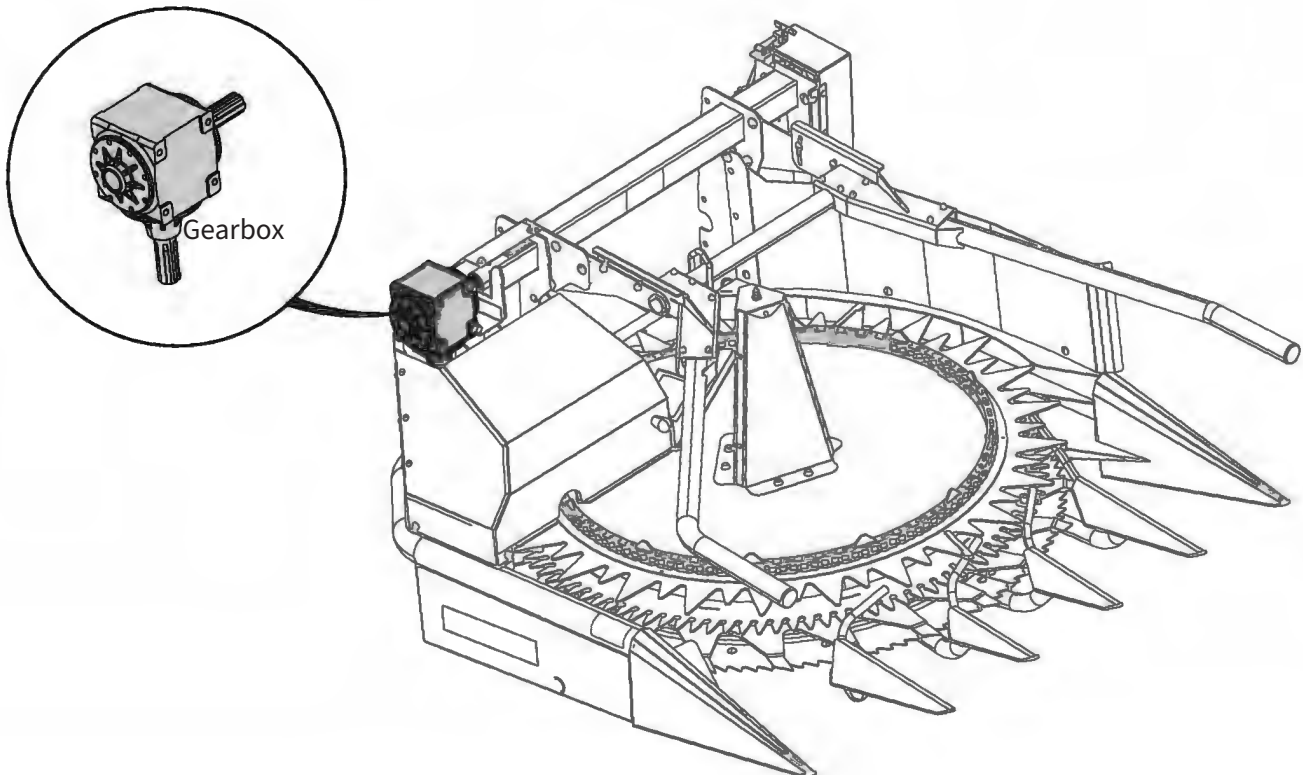


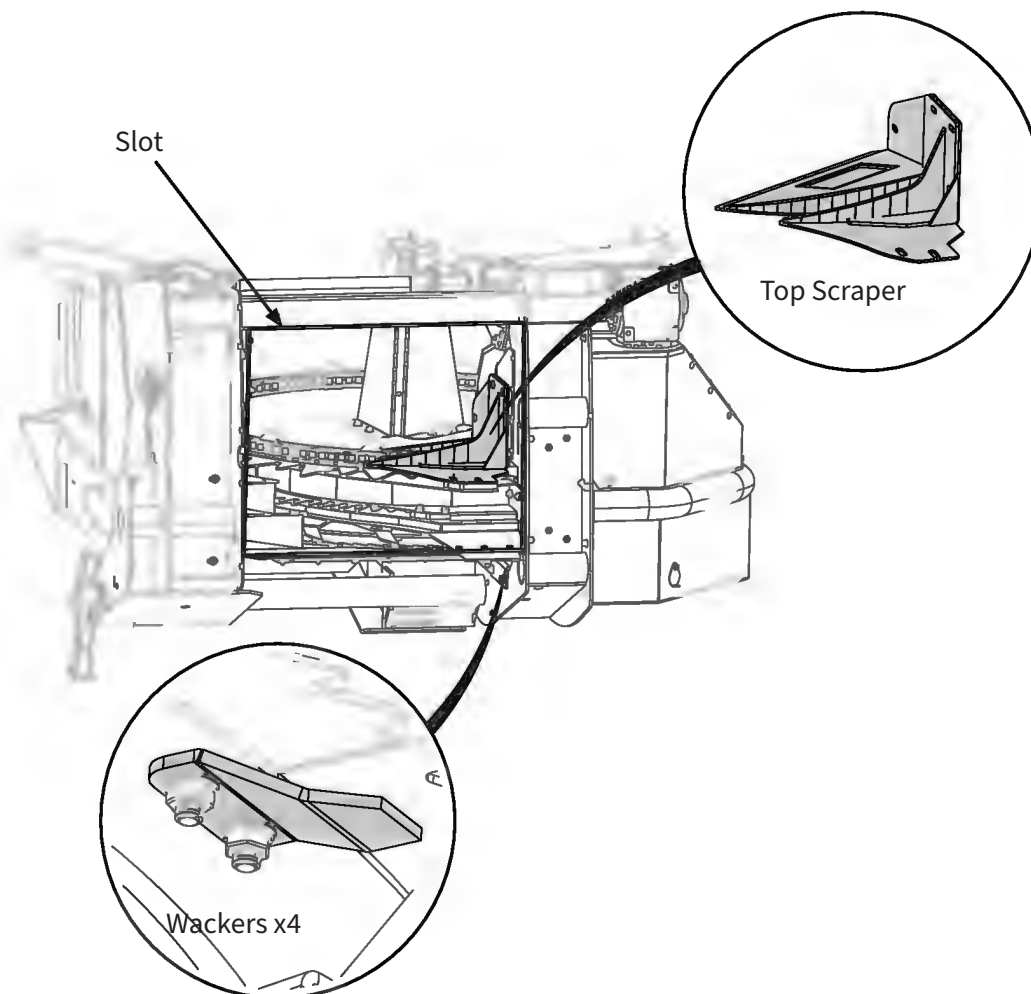
Figure 21 Check and add oil to gearbox
Oil type; 80W-90 GL-5



Troubleshooting

Problem	Solution	
Plugging behind rotor	Harvester feedroll springs loose - Retighten	See brand specific harvester manual
	Slot plugged - Clear debris out	See Figure 22
	Blade cleaners or wackers missing - Replace	
	Top Scraper not adjusted properly	
Plugging underneath or in front	Worn knives-Replace knives	See Figure 23
	Blade cleaners or wackers missing - Replace	
Rough or Jerky start up	Loose chain - Retighten all chains	See Figure 24
Weeds wrapping on bottom rotor chain	Shield missing or damaged - Replace or add shield	See Figure 25

Figure 22 Plugging behind rotor



Troubleshooting

Figure 23 Plugging underneath or in front of

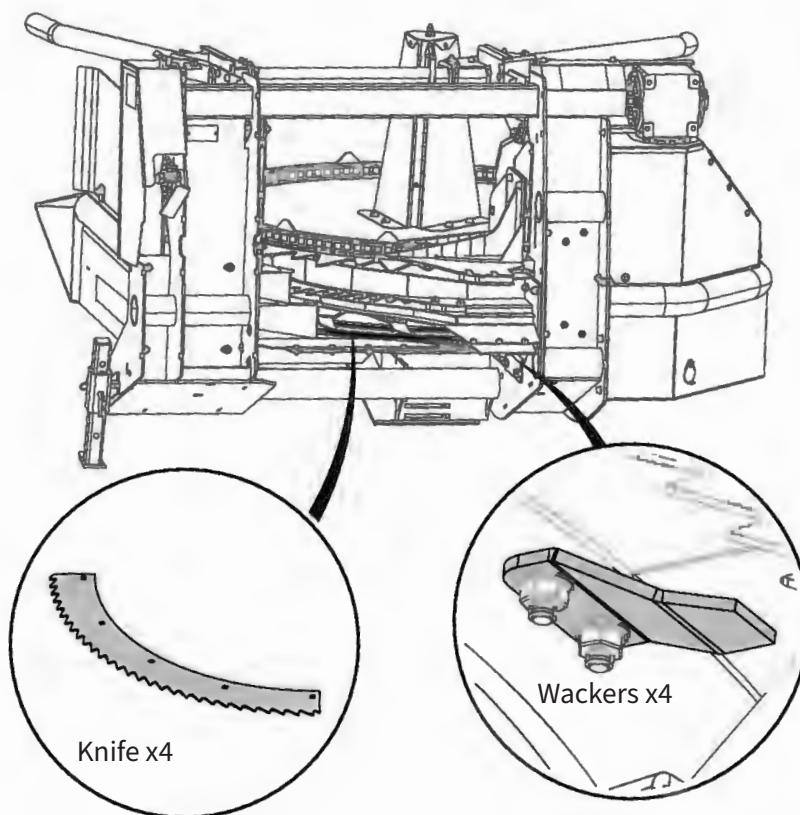
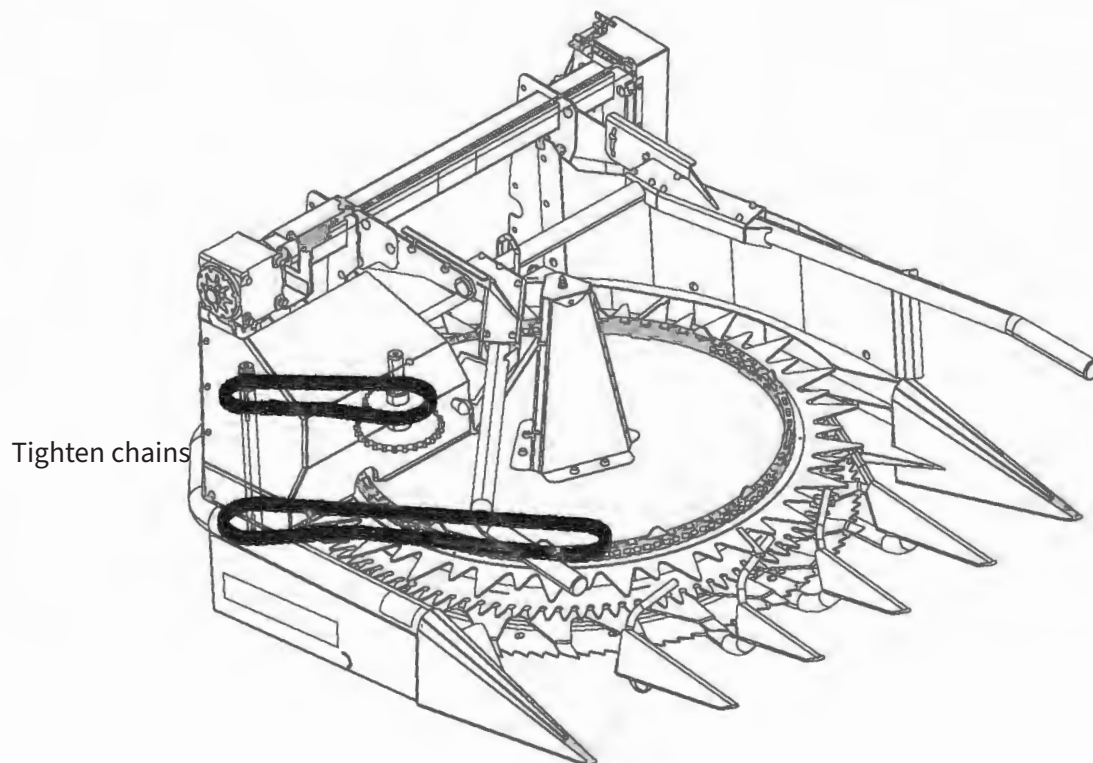
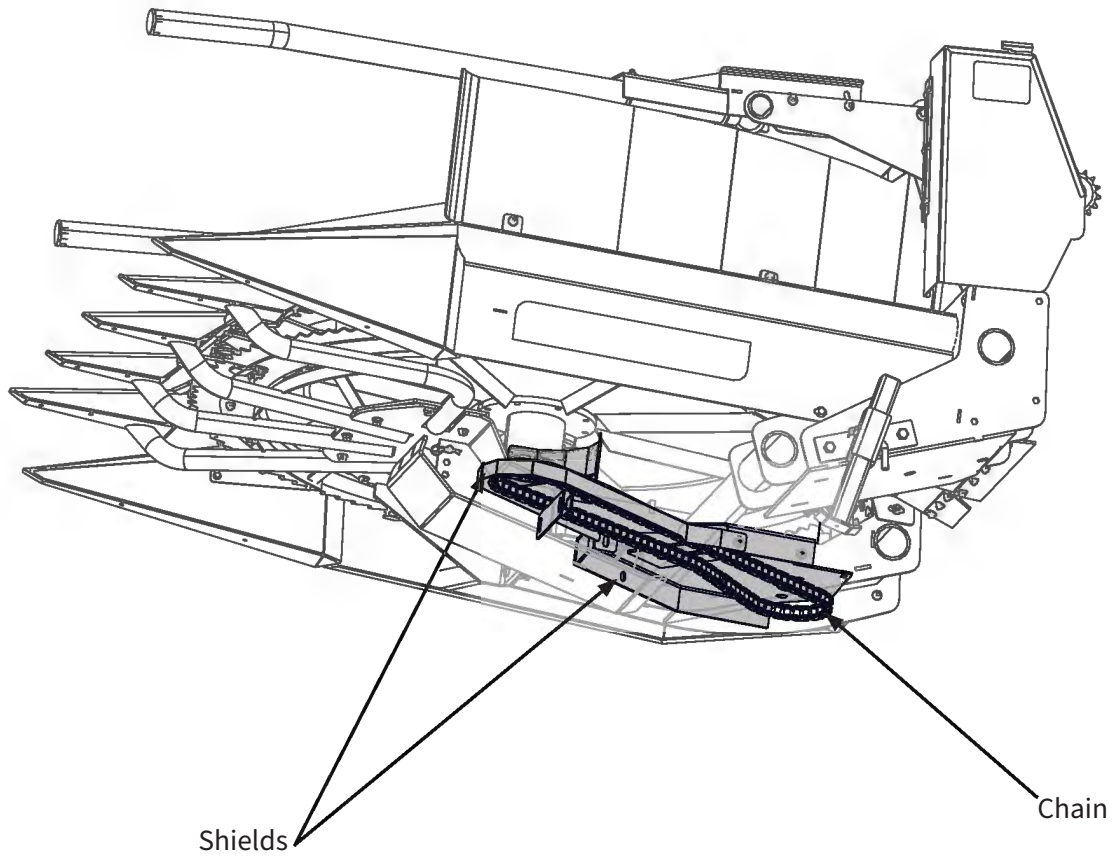


Figure 24 Rough or jerky start up



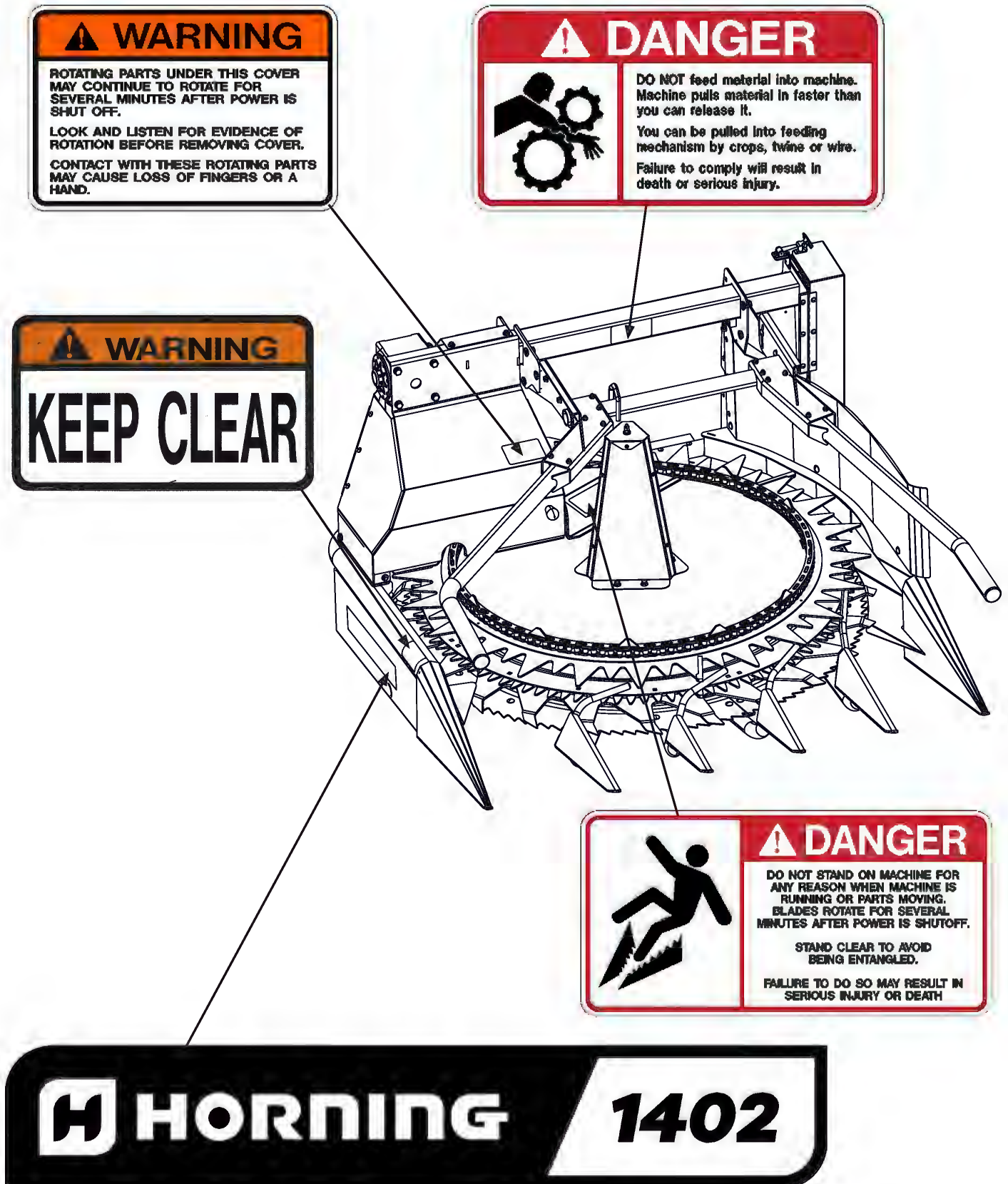
Troubleshooting

Figure 25 Weeds wrapping on bottom rotor chain



Decals

Figure 26 Decals Front



CH1402 2-ROW ROTARY CORN HEAD

Decals

Figure 27 Decals Back

