

# **CROWN**

## **PARTS MANUAL**

**MODEL 400 ROCK PICKER**

**ROTARY ROCK PICKER**

Model 610 Ground Drive

Model 600 Hydraulic Drive

**MODEL 120 ROCK WINDROWER**



**SUMMERS MANUFACTURING CO., INC.**

Maddock, North Dakota  
Devils Lake, North Dakota

## GENERAL INFORMATION

Reference to left or right is determined when machine is viewed from the rear.

All hose sizes are given as inside diameters unless otherwise specified.

Abbreviations used in this manual:

NPT-M -- National Pipe Thread, Male  
NPT-F -- National Pipe Thread, Female  
NC -- Unified National Coarse Thread  
NF -- Unified National Fine Thread  
NSS -- Not Service Separately  
NAP -- Not Available As Parts

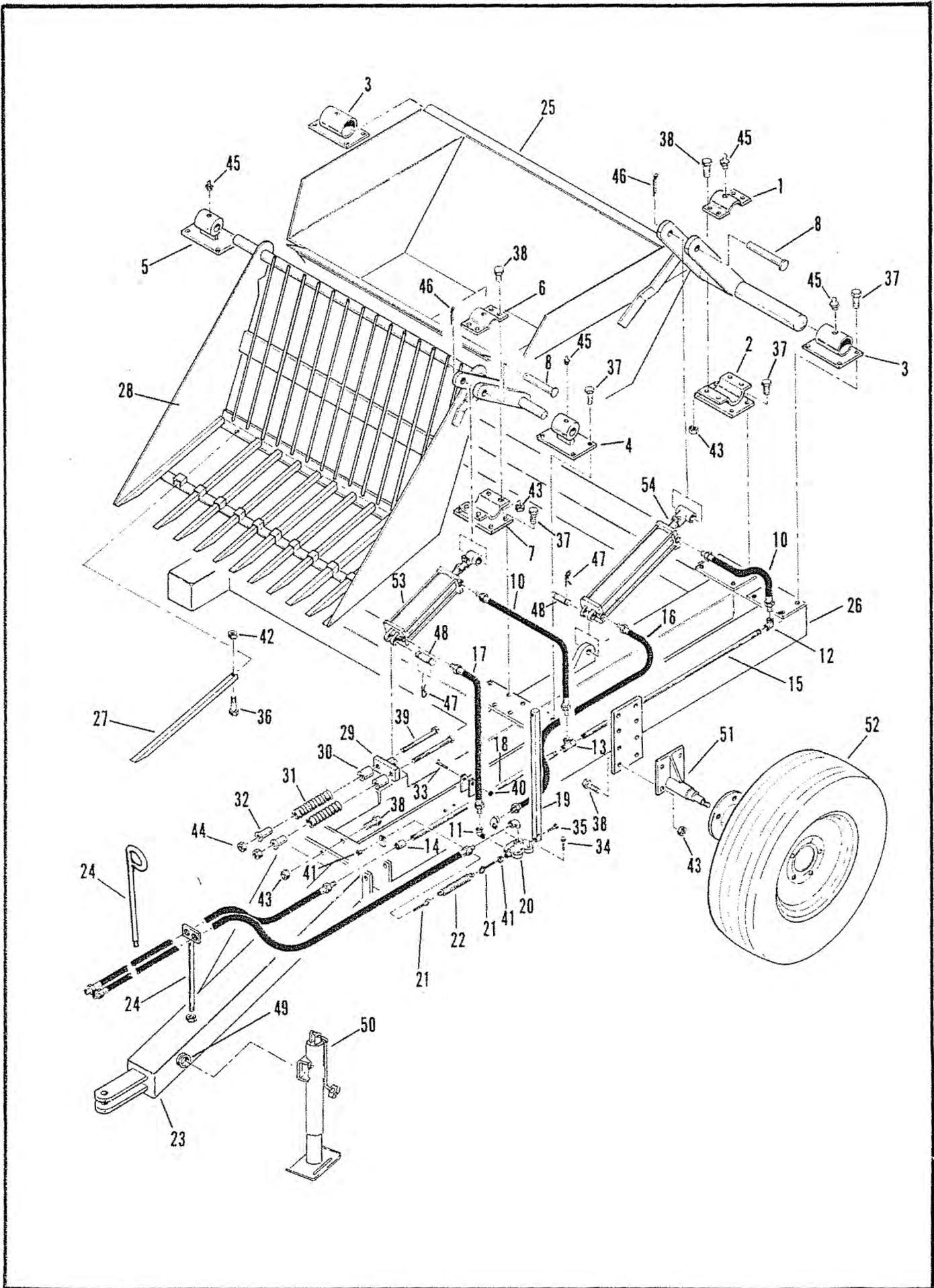
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### MODEL 600 & 610 ROCK PICKERS

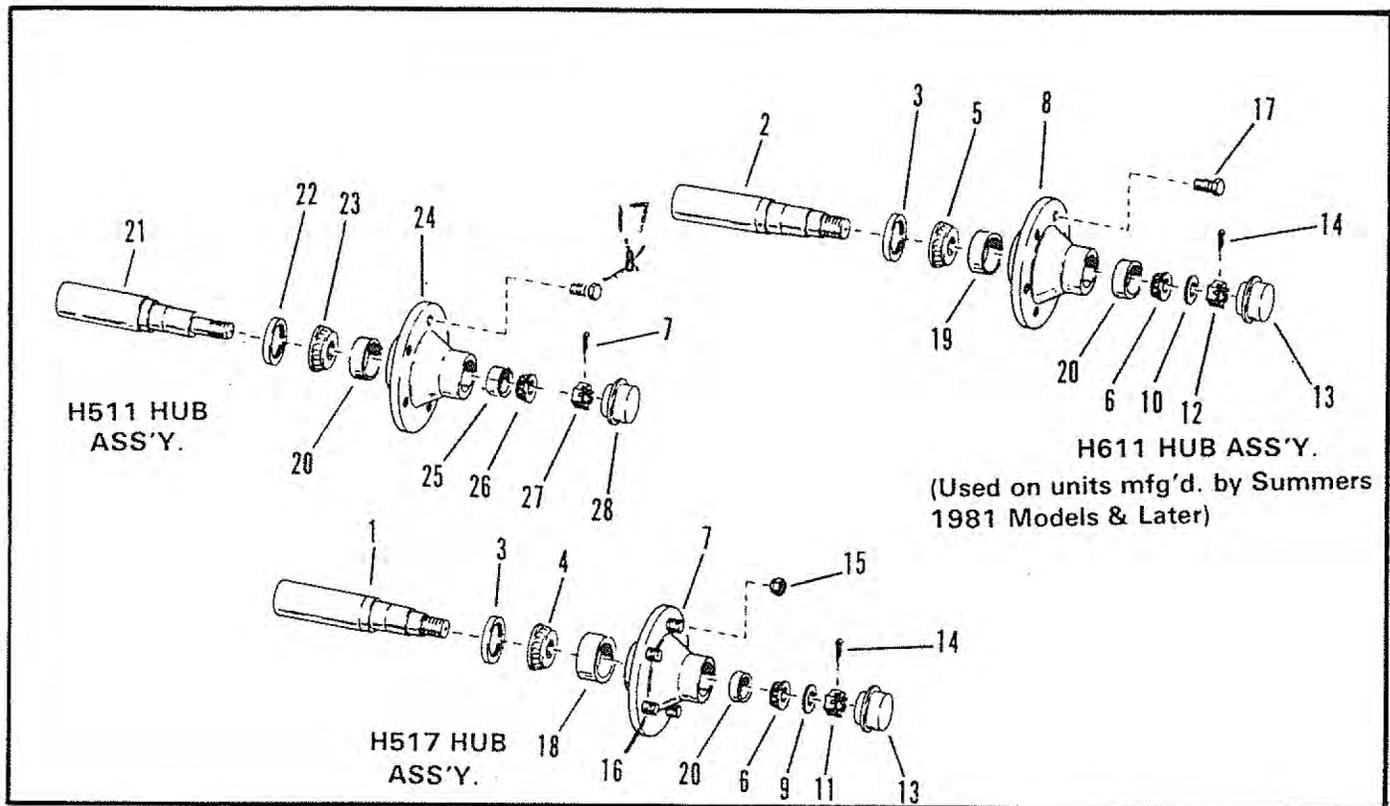
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## MODEL 400 ROCKPICKER

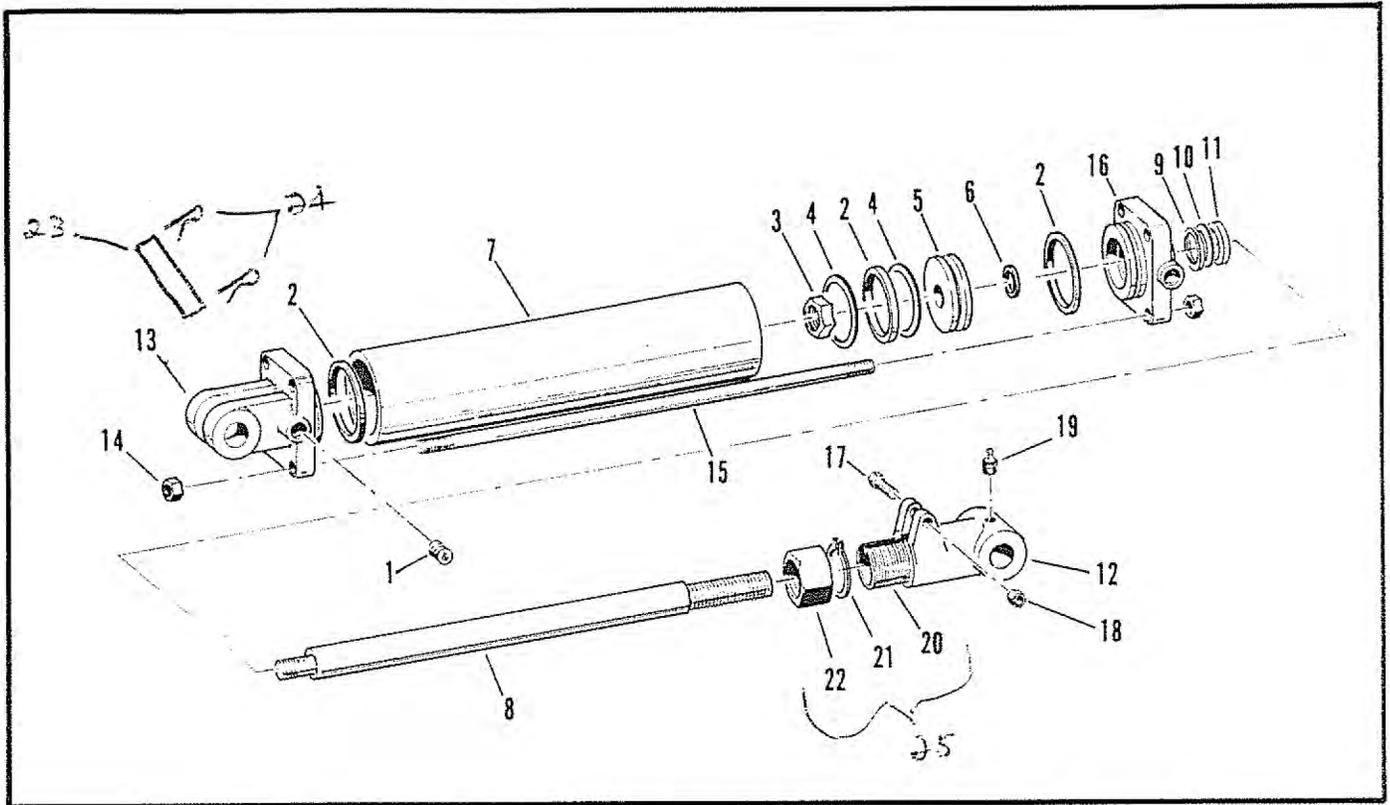
Ref.	Part No.	Description	Qty
1	8R6060	PILLOW BLOCK, top half	1
2	8R4030	PILLOW BLOCK, bottom half	1
3	8R4040	PILLOW BLOCK, bucket	2
4	8R4050	PILLOW BLOCK, rake (Left)	1
5	8R4060	PILLOW BLOCK, rake (Right)	1
6	8R4070	PILLOW BLOCK, top half (Rake)	1
7	8R4080	PILLOW BLOCK, bottom half (Rake)	1
8	8R4100	PIN, 1" dia. x 6-3/4"	2
10	8R4310	HOSE, hydraulic (Front & Rear Cylinder) 18"	2
11	8X0675	ELBOW, street 1/2" NPT-M x 1/2" NPT-F	4
12	8X0660	ELBOW, pipe 1/2" NPT	1
13	8X0650	TEE, pipe 1/2" NPT	1
14	8X0700	COUPLING, pipe 1/2" NPT	1
15	8R4300	PIPE, hydraulic line (Rear)	1
16	8R4315	HOSE, hydraulic (Rear Cylinder) 48"	1
17	8D3070	HOSE, hydraulic (Front Cylinder) 12"	1
18	8R4290	PIPE, hydraulic line (Front)	1
19	9R4325	LEVER, selector	1
20	8R4330	VALVE, selector	1
21	8R4335	EYE BOLT, 3/8" NC	2
22	8R4190	SPRING, selector	1
23	8R4200	TONGUE	1
24	8R6025	STAND, hose loop	1
	8R8000	STAND, hose	1
25	8R4250	BUCKET	1
26	8R4260	FRAME	1
27	8R4240	TINE	10
28	8R4225	RAKE, less tines	X
	8R4230	RAKE, complete w/tines	1
29	8R4160	BLOCK, Cylinder Attachment	1
30	8R4170	BASE, Channel with collars	1
31	8R6885	SPRING, shock	2
32	8R4165	BUSHING	2
33	8X0009	CAP SCREW, hex hd, 1/4" NC x 2"	1
34	8X0022	CAP SCREW, hex hd, 5/16" NC x 1-1/2"	2
35	8X0006	CAP SCREW, hex hd., 3/8" NC x 2-1/2"	1
36	8X0067	CAP SCREW, hex hd., 1/2" NC x 2-1/4"	10
37	8X0085	CAP SCREW, hex hd., 5/8" NC x 1"	28
38	8X0091	CAP SCREW, hex hd., 5/8" NC x 1-3/4"	18
39	8X0125	CAP SCREW, hex hd, 3/4" NC x 10"	2
40	8X0220	NUT, hex, 1/4" NC	1
41	8X0201	NUT, hex, 3/8" NC	3
42	8X0240	NUT, hex, 1/2" NC	10
43	8X0250	NUT, hex, 5/8" NC	18
44	8X0260	NUT, hex, 3/4" NC	2
45	8X0725	FITTING, grease 1/8" NPT-M	6
	8X0721	FITTING, grease, 5/16" - 24 NF	6
46	8X0414	PIN, cotter 1/4" dia. x 2"	2
47	8D9110	PIN, retainer	4
48	8D9102	PIN, clevis 1" x 4"	2
49	8D8520	SWIVEL, jack mounting	X
50	8D8531	JACK, hitch (2000# Capacity)	X
51	8R4152	SPINDLE, for H611 hub (1981 Models & later)	2
	8R4155	SPINDLE ASSY., complete w/H611 hub	X
	8R4150	SPINDLE, for H517 hub	X
52	8D3030	WHEEL, 15 x 6" - 6 bolt (1981 Models & later)	2
	8R4500	WHEEL, 14 x 5" - 5 bolt	X
	8D3031	WHEEL & TIRE, 7.60 x 15" tire & tube mt. on 15x6x6 wheel	
	8R4505	WHEEL & TIRE, 7.50 x 14" tire mt. on 14x5x5 wheel	X
53	8R4350	CYLINDER, hydraulic (3" x 10" - Front w/Depth Control) Breakdown Page 5)	1
54	8R4400	CYLINDER, hydraulic (3" x 14" - Rear) Breakdown Page 5)	1

LM485COLA-90034, bearing with seal



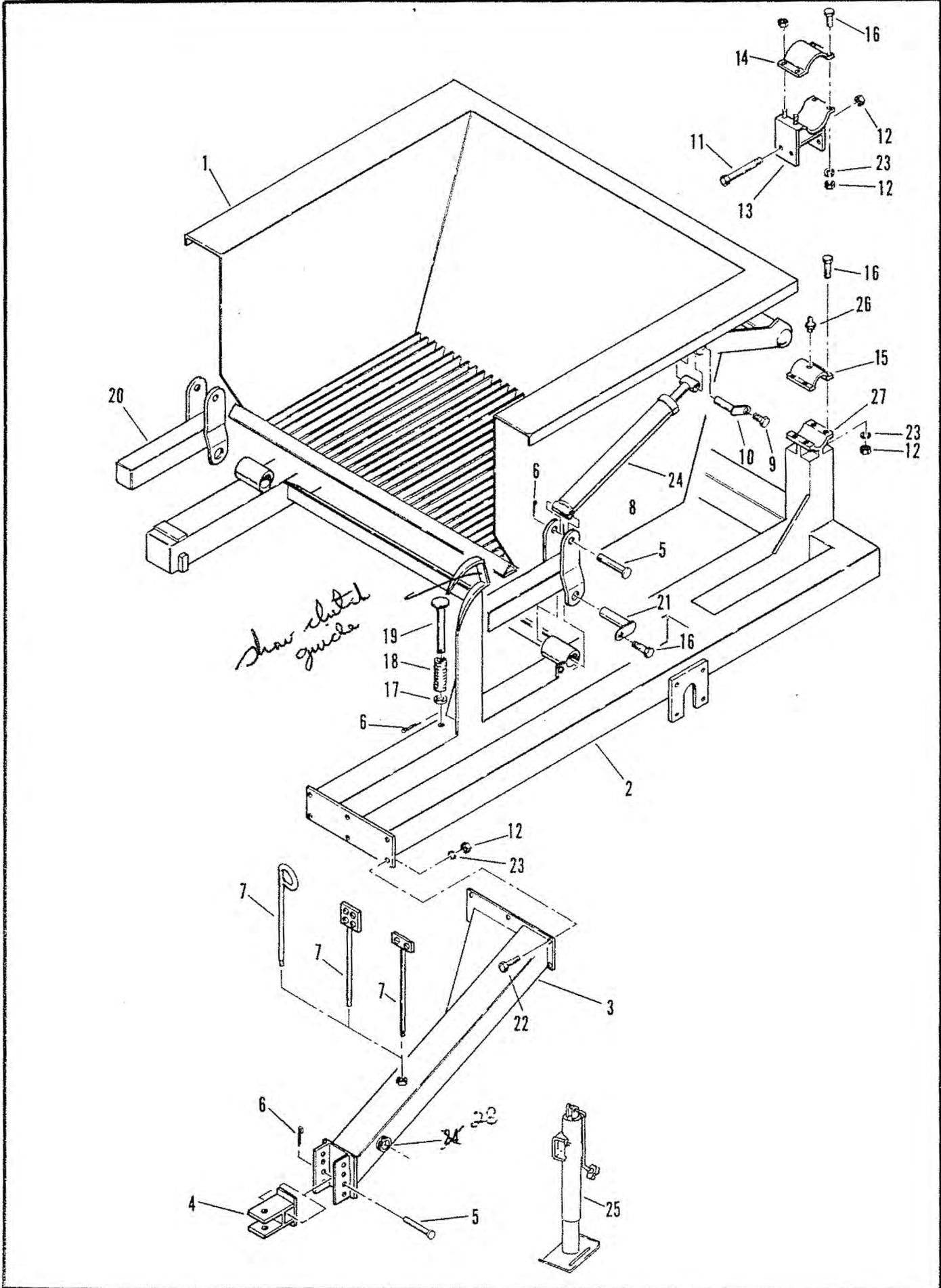
### HUB ASSEMBLIES (Model 400)

Ref.	Part No.	Description	Qty.
1	8D1170	AXLE ONLY, for H517 Hub	
2	8D1160	AXLE ONLY, for H611 Hub	
3	8D5220	SEAL, 1-3/4" (SE13)	
4	8D5217	BEARING, (LM48548)	
5	8D5317	BEARING, (LM29749)	
6	8D5117	BEARING, (LM67048)	
7	8D5211	HUB, 5 stud (H517 w/Races & Grease Fitting)	
8	8D5311	HUB, 6 bolt (H611 w/Races & Grease Fitting)	
9	8D5219	WASHER, axle 7/8" ID	
10	8D5319	WASHER, axle 1" ID	
11	8D5212	NUT, axle 7/8" NF	
12	8D5312	NUT, axle 1" NF	
13	8D5213	CAP, hub (Large)	
14	8X0415	PIN, cotter 3/16" dia. x 1-3/4"	
15	8D5214	NUT, wheel 1/2" NF	
16	8D5215	STUD, wheel 1/2" NF	
17	8D5114	BOLT, wheel 1/2" NF	
18	8D5332	RACE, inner bearing for H517 (LM48510)	
19	8D5334	RACE, inner bearing for H611 (LM29710)	
20	8D5336	RACE, inner bearing for H511, outer for H517 & H611 (LM67010)	
21	8D1110	AXLE ONLY for H511 Hub	
22	8D5120	SEAL, 1-5/8" (SE 11)	
23	8D5117	BEARING, (LM67048)	
24	8D5111	HUB, 5 bolt (H511 w/Races & Grease Fitting)	
25	8D5330	RACE, outer bearing (For H511 Hub, LM11910)	
26	8D5118	BEARING, (LM11949)	
27	8D5112	NUT, axle 3/4" NF	
28	8D5113	CAP, hub (Small)	



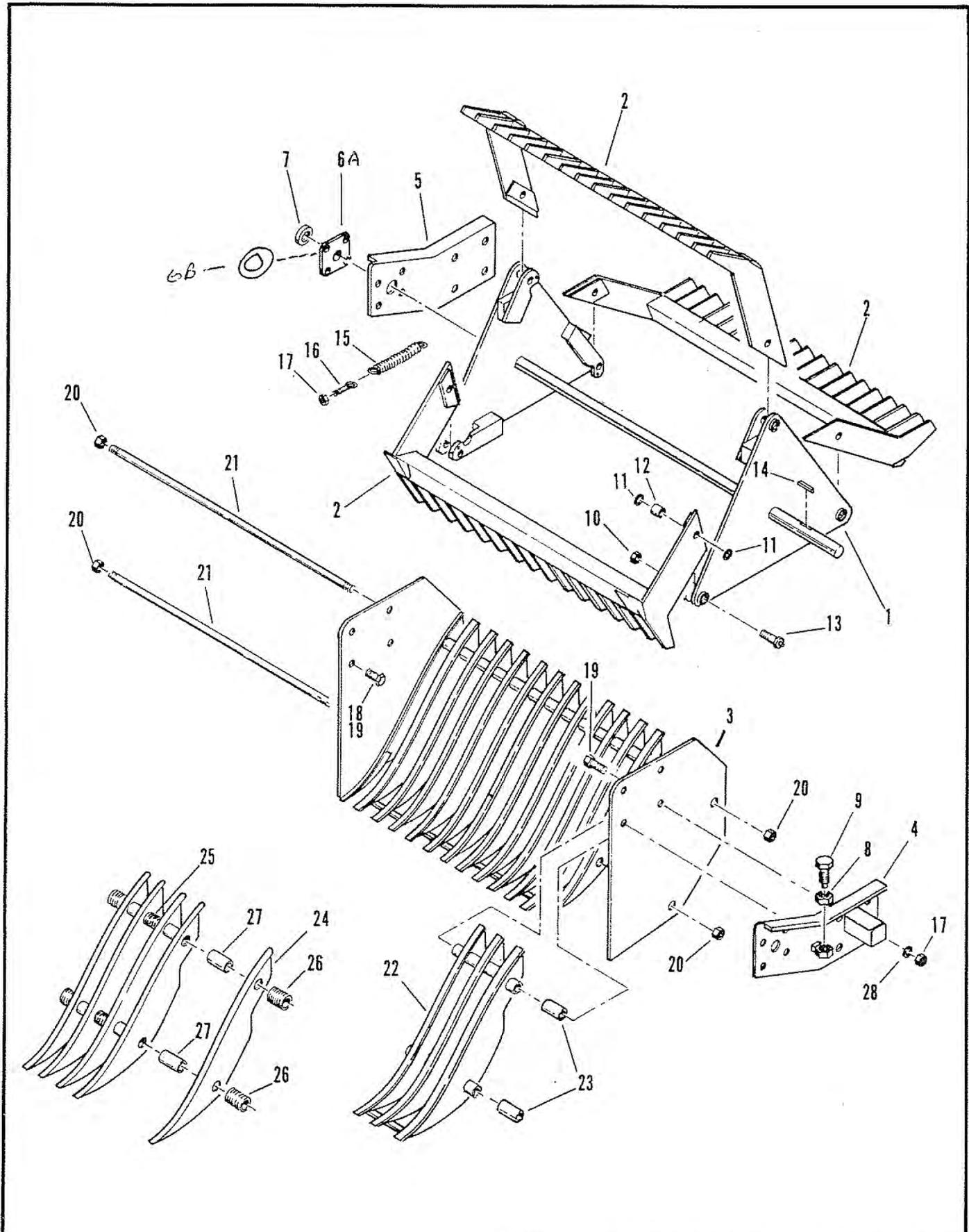
## HYDRAULIC CYLINDERS (Model 400)

Ref.	Part No.	Description	Qty.	
	Rugby Model	Rugby Model		
	RT3010DE	RT3014DE		
	8R4350	CYLINDER, hydraulic 3 x 10" w/depth control	1	
		8R4400	CYLINDER, hydraulic 3 x 14"	1
1	8R4410	8R4410	PORT PLUG	1
2	NSS	NSS	O-RING	3
3	8R4412	8R4412	NUT, piston	1
4	NSS	NSS	BACK-UP	2
5	8R4414	8R4414	PISTON	1
6	NSS	NSS	O-RING	1
7	8R4370	8R4416	TUBE	1
8	8R4372	8R4418	ROD	1
9	NSS	NSS	O-RING	1
10	NSS	NSS	BACK-UP	1
11	NSS	NSS	ROD WIPER	1
12	8R4420	8R4420	PINEYE	1
13	8R4422	8R4422	ANCHOR END CAP	1
14	8R4424	8R4424	NUT, tie rod	8
15	8R4374	8R4426	TIE ROD	4
16	8R4428	8R4428	ROD END CAP	1
17	8R4430	8R4430	CLEVIS CAP SCREW	1
18	8R4432	8R4432	NUT, clevis	1
19	8R4434	8R4434	FITTING, grease	1
20	8R4376		DEPTH CONTROL ASSY., inner	1
21	8R4378		SNAP RING	1
22	8R4380		DEPTH CONTROL ASSY., outer	1
	8R4402	8R4402	SEAL KIT (Includes Ref. 2, 4, 6, 9, 10 & 11)	1
23	8R4436	8R4436	CLEVIS PIN, 1 x 3-3/4"	1
	8D9110	8D9110	HAIR PIN	2
25	8R4375		DEPTH CONTROL ASSEMBLY, complete (includes Ref. 20, 21, 22)	1



**ROTARY ROCK PICKER MAINFRAME**  
(Models 600 and 610)

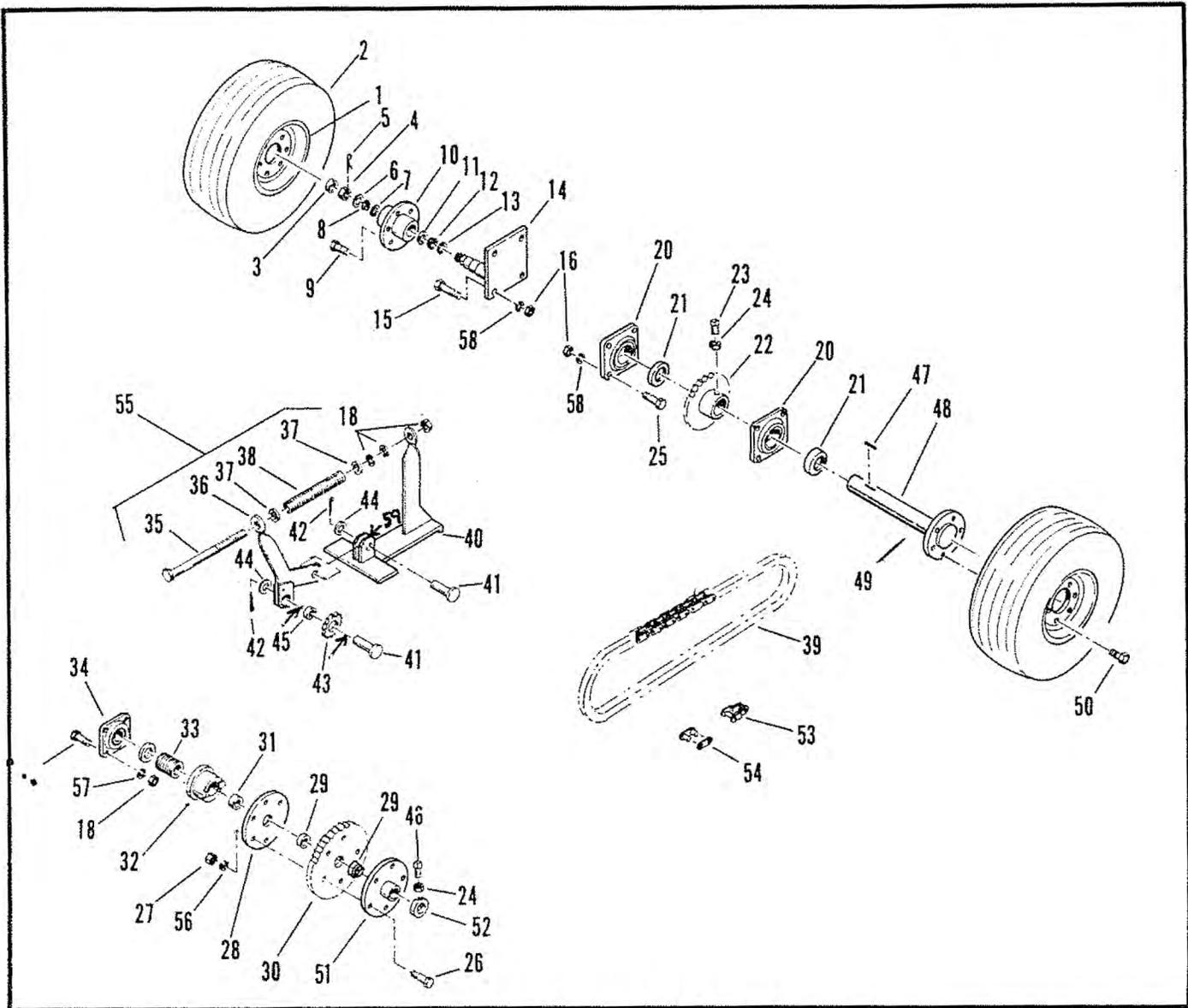
Ref.	Part No	Description	Qty
1	8R6002	BUCKET, 1982 models	1
	8R6003	BUCKET, 1983 models and later	1
	8R6000	BUCKET, 1981 models and earlier	X
2	8R6010	FRAME, ground drive	1
	8R6012	FRAME, hydraulic drive	1
3	8R6020	TONGUE	1
4	8R6030	CLEVIS, tongue	1
5	8R6040	PIN, 1" diameter x 5-1/2"	2
6	8X0414	PIN, cotter 1/4" diameter x 2"	3
7	8R6025	STAND, hose loop	1
	8R8000	STAND, 2 hose	X
	8R7100	STAND, 4 hose	X
8	8R6160	LIFT ARM, left	1
9	8X0060	CAP SCREW, hex hd., 1/2" NC x 1"	2
10	8R6080	PIN, keeper 1" diameter x 6-1/2"	2
11	8X0098	CAP SCREW, hex hd., 5/8" NC x 6-1/2"	4
12	8X0250	NUT, hex, 5/8" NC	18
13	8R6070	PILLOW BLOCK, bottom (Left)	1
	8R6072	PILLOW BLOCK, bottom (Right)	1
14	8R6060	PILLOW BLOCK (top)	2
15	8R6060	PILLOW BLOCK, top (Cast)	2
16	8X0087	CAP SCREW, hex hd., 5/8" NC x 1-1/2"	6
17	8X0327	WASHER, 1-1/4"	2
18	8R6885	SPRING, depth control	2
19	8R6310	PIN, depth control	2
20	8R6165	LIFT ARM, right	1
21	8R6170	PIN, keeper 1-3/4" diameter x 8"	2
22	8X0093	CAP SCREW, hex hd., 5/8" NC x 2"	6
23	8X0304	WASHER, lock, 5/8"	14
24	8R6870	CYLINDER, hydraulic, 3" x 31" (Breakdown Page 16)	
25	8D8531	JACK, hitch (2000 lb. Capacity)	1
26	8X0725	FITTING, grease 1/8" NPT-M	X
	8X0721	FITTING, grease 5/16" - 24 NF	X
27	8R6075	PILLOW BLOCK, base (Cast - Weld On)	X
28	8D8520	SWIVEL, jack	X



NOTE: Units manufactured in 1981 and later by Summers Mfg. Co., Inc., have no springs between rake tines.

**RAKE AND REEL ASSEMBLY**  
(Models 600 and 610)

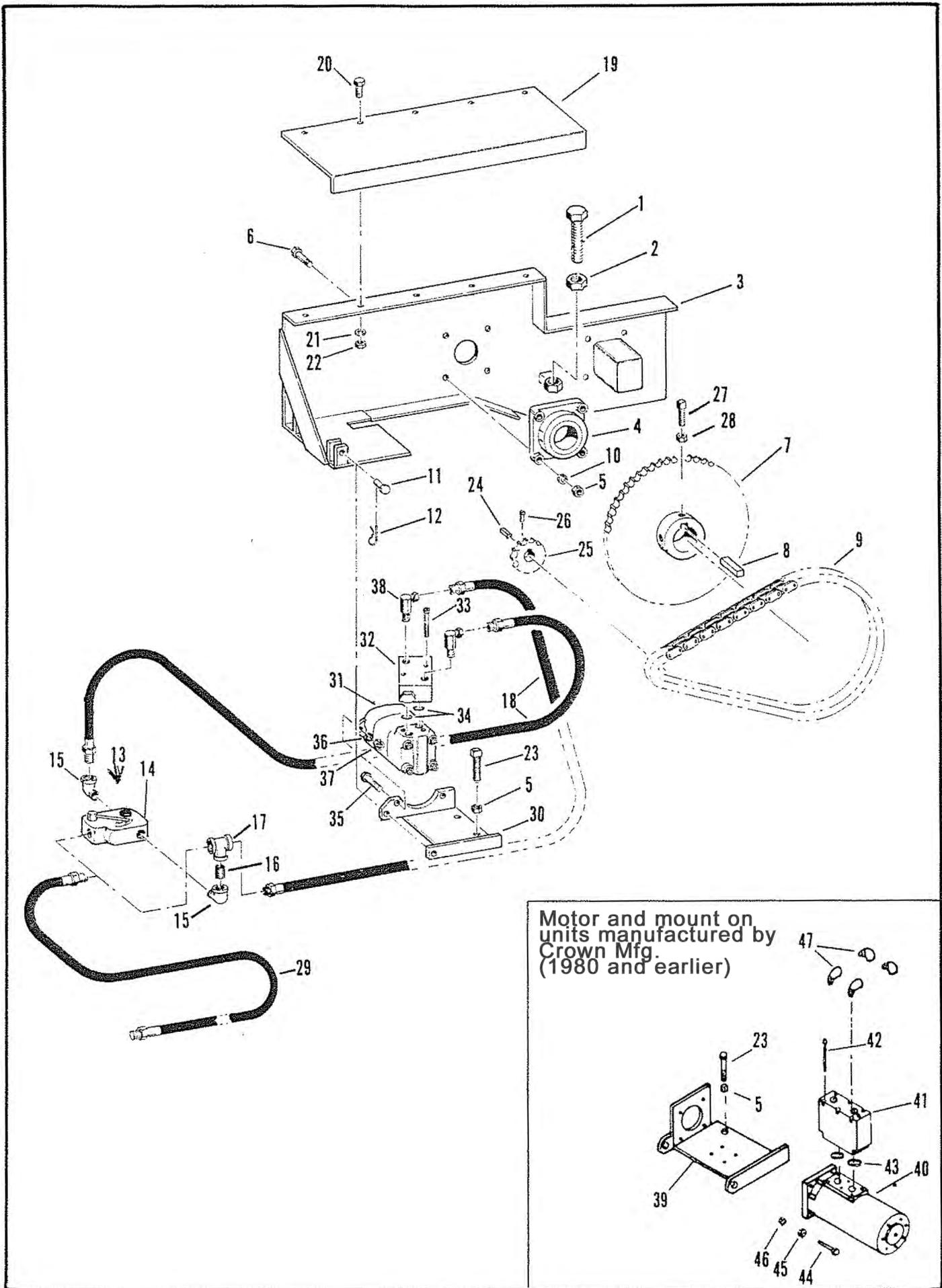
Ref.	Part No.	Description	Qty.
1	8R6130	REEL, hydraulic drive	1
	8R6132	REEL, ground drive	1
	8R6148	REEL W/BATTS, Assembled Hyd. Dr.	
	8R6149	REEL W/BATTS, Assembled Grd. Dr.	
2	8R6140	BATT	3
3	8R6088	FRAME, rake 1982 models	1
	8R6090	FRAME, rake 1983 models & later	1
4	8R8005	STABILIZING ARM, left (Ground Drive)	1
5	8R6150	STABILIZING ARM, right (Hyd. & Ground Driven)	1
6A	8R6825	FLANGED BEARING, w/collar, 2"	2
6B	8R6822	BEARING ONLY, 2"	X
7	8R6820	COLLAR, retaining	2
8	8X0287	NUT, jam, 1-1/2" NC	2
9	8R6300	BOLT, depth control	2
10	8X0282	NUT, hex lock, 1" NF	6
11	8X0327	WASHER	12
12	8R6810	BUSHING, split steel	6
	8R6812	BUSHING, oilite (Early Models)	6
13	8R6800	GREASE PIN	6
	8R6802	BATT BOLT (Early Models)	6
14	8R7095	KEY, reel hydraulic drive, 1/2" x 2-1/8"	1
	8R8050	KEY, reel ground drive, 1/2" x 2-1/2"	2
15	8R6880	SPRING, batt	6
16	8R6145	BOLT, eye	6
17	8X0260	NUT, 3/4" NC	14
18	8X0108	BOLT, countersunk 3/4" NC x 2" (1980 Models & Earlier)	4
19	8X0107	BOLT, 3/4" NC x 2"	4
20	8X0285	NUT, 1-1/2" NC	4
21	8R6100	ROD, retaining	2
22	8R6123	GANG, 3-tine unit 1983 models & later	5
	8R6122	GANG, 3-tine unit 1982 models	5
23	8R6114	TINE SPACER,	4
24	8R6120	TINE	15
25	8R6890	SPRING, rake (Short 3-3/16")	4
26	8R6895	SPRING, rake (Long 3-7/8")	4
27	8R6110	TINE SPACER, 3"	24
	8R6112	TINE SPACER, 3-3/4" (Used on 1981 Model Rakes)	X
28	8X0306	LOCKWASHER, 3/4"	8



**DRIVE & WHEEL ASSEMBLY**  
(Models 600 and 610)

Ref.	Part No.	Description	Gr'nd. Drive Qty.	Hyd. Drive Qty.
1	8D3035	WHEEL, 15" x 8" - 6 bolt	2	2
2	8D3037	WHEEL & TIRE, 11L x 15" tire & tube mounted	2	2
3	8R6913	CAP, dust	1	2
4	8D5312	NUT, axle 1" NF	1	2
5	8X0415	PIN, cotter 3/16" diameter x 1-3/4"	1	2
6	8D5319	WASHER, axle 1" ID	1	2
7	8D5332	RACE, outer bearing (LM48510)	1	2
8	8D5217	BEARING, outer (LM48548)	1	2
9	8R6914	BOLT, wheel 9/16" NF	6	12
10	8R6911	HUB, 6 bolt (H614 w/Races & Grease Fitting)	1	2
11	8R6925	RACE, inner bearing (LM603012)	1	2
12	8R6917	BEARING, inner (LM603049)	1	2
13	8R6920	SEAL, bearing	1	2
14	8R6200	SPINDLE W/PLATE	1	2
	8R6202	SPINDLE ASSY. COMPLETE W/H614 HUB	1	2
15	8X0107	CAP SCREW, hex hd., 3/4" NC x 2"	4	8
16	8X0260	NUT, hex 3/4" NC	12	8
17	8X0093	CAP SCREW, hex hd., 5/8" NC x 2"	4	—
18	8X0250	NUT, hex, 5/8" NC	7	—
19	8X0117	CAP SCREW, hex hd., 3/4" NC x 7"	4	—
20	8R8010	FLANGED BEARING COMPLETE, 2-1/2"	2	—
	8R8012	BEARING ONLY, 2-1/2"	X	---

Ref.	Part No.	Description		Qty.
	8R8012	BEARING ONLY	X	—
21	8R8015	LOCK RING (Early Models Only)	X	—
22	8R8220	DRIVE SPROCKET, 26 tooth	1	—
23	8X0606	SET SCREW, 7/16" NC x 1-1/2"	2	—
	8X0609	SET SCREW, 3/8" NC x 2"	X	—
	8X0608	SET SCREW, 1/2" NC x 1-1/2"	X	—
24	8X0232	NUT, hex 7/16" NC	4	—
25	8X0111	CAP SCREW, hex hd., 3/4" NC x 2-1/2"	4	—
26	8X0062	CAP SCREW, hex hd., 1/2" NC x 2"	6	—
27	8X0240	NUT, hex 1/2" NC	6	—
28	8R8060	SPROCKET CLUTCH PLATE, female	1	—
29	8R8070	BEARING, oilite	2	—
30	8R8240	REEL SPROCKET, 36 tooth	1	—
31	8R8040	SLIP RING, clutch	1	—
32	8R8030	CLUTCH, male	1	—
33	8R8020	SPRING, clutch	1	—
34	8R6825	FLANGED BEARING W/COLLAR, 2"	1	—
	8R6820	COLLAR, retaining	X	—
35	8R8100	ROD, idler sprocket	1	—
36	8R8110	BRACKET, idler sprocket	1	—
37	8X0324	WASHER, 5/8"	2	—
38	8R8025	SPRING, chain tightener 12"	1	—
	8R8023	SPRING, chain tightener 30"	X	—
39	8R8090	DRIVE CHAIN, #80	1	—
40	8R8120	BRACKET, idler frame	1	—
41	8R8002	PIN, 1" diameter x 2-1/4"	2	—
42	8X0415	PIN, cotter 3/16 x 1-3/4"	2	—
43	8R8200	IDLER SPROCKET, 13 tooth	1	—
44	8X0350	MACHINERY BUSHING, 2x1x18 ga	2	—
	8X0351	MACHINERY BUSHING, 2x1x14 ga	6	—
45	8R8130	BEARING, idler sprocket	1	—
46	8X0605	SET SCREW, 7/16" NC x 1"	2	—
47	8R8250	KEY, 3/8" x 2"	2	—
48	8R8260	MAIN DRIVE AXLE	1	—
49	8X0248	NUT, hex 9/16" NF	6	—
50	8X0080	BOLT, wheel 9/16" NF x 2-1/4"	6	—
51	8R8065	HUB, outer clutch (includes new oilite bushing)	1	—
52	8R8075	COLLAR, lock	1	—
53	8R8092	OFFSET LINK, #80	X	—
54	8R8094	CONNECTOR LINK, #80	X	—
55	8R8150	CHAIN TIGHTENER, complete	X	X
56	8X0303	WASHER, lock 1/2"	6	—
57	8X0304	WASHER, lock 5/8"	4	—
58	8X0306	WASHER, lock 3/4"	12	8



## HYDRAULIC DRIVE SYSTEM (Model 600)

Ref.	Part No.	Description	Qty.
1	8R6300	BOLT, depth control	1
2	8X0287	NUT, hex jam 1-1/2" NC	1
3	8R7010	STABILIZING ARM, left (Hydraulic Drive)	1
4	8R6825	FLANGED BEARING W/COLLAR, 2"	1
	8R6820	COLLAR, retaining	X
5	8X0250	NUT, hex, 5/8" NC	6
6	8X0093	CAP SCREW, hex hd., 5/8" NC x 2"	4
7	8R7070	REEL SPROCKET, 54 tooth	1
	8R7069	REEL SPROCKET, 45 tooth	X
8	8R7095	KEY, 1/2" x 2-1/8"	1
9	8R7080	CHAIN, #60	1
10	8X0304	WASHER, lock 5/8"	4
11	8X0422	PIN, clevis 1/2" diameter x 2-1/4"	2
	8X0430	PIN, round head 1/2" diameter x 1-3/4"	X
12	8X0400	PIN, hair clip	2
13	8R7052	BOLT W/KNOB	X
14	8R7050	VALVE, flow control	1
15	8X0670	ELBOW, street 1/2" NPT	2
16	8D3107	NIPPLE, hex 1/2" MPT	1
	8D3070	HOSE, hydraulic 1/2" R1 x 12"	X
17	8X0650	TEE, 1/2" NPT	1
18	8R7092	HOSE, hydraulic 1/2" R1 x 48"	2
19	8R7000	HOOD, safety	1
20	8X0002	CAP SCREW, hex hd., 3/8" NC x 1"	5
21	8X0301	WASHER, lock 3/8"	5
22	8X0201	NUT, hex, 3/8" NC	5
23	8X0618	SET SCREW, 5/8" NC x 3"	2
24	8R7055	KEY, 5/16" x 1-1/4"	1
25	8R7060	DRIVE SPROCKET, 13 tooth	1
	8R7059	DRIVE SPROCKET, 11 tooth	X
26	8X0600	SET SCREW, 5/16" NC x 3/8"	2
27	8X0606	SET SCREW, 7/16" NC x 1-1/2"	2
28	8X0232	NUT, hex 7/16" NC	2
29	8D3075	HOSE, hydraulic 1/2" R1 x 100"	2

### Motor and mount on units mfg'd. by Summers

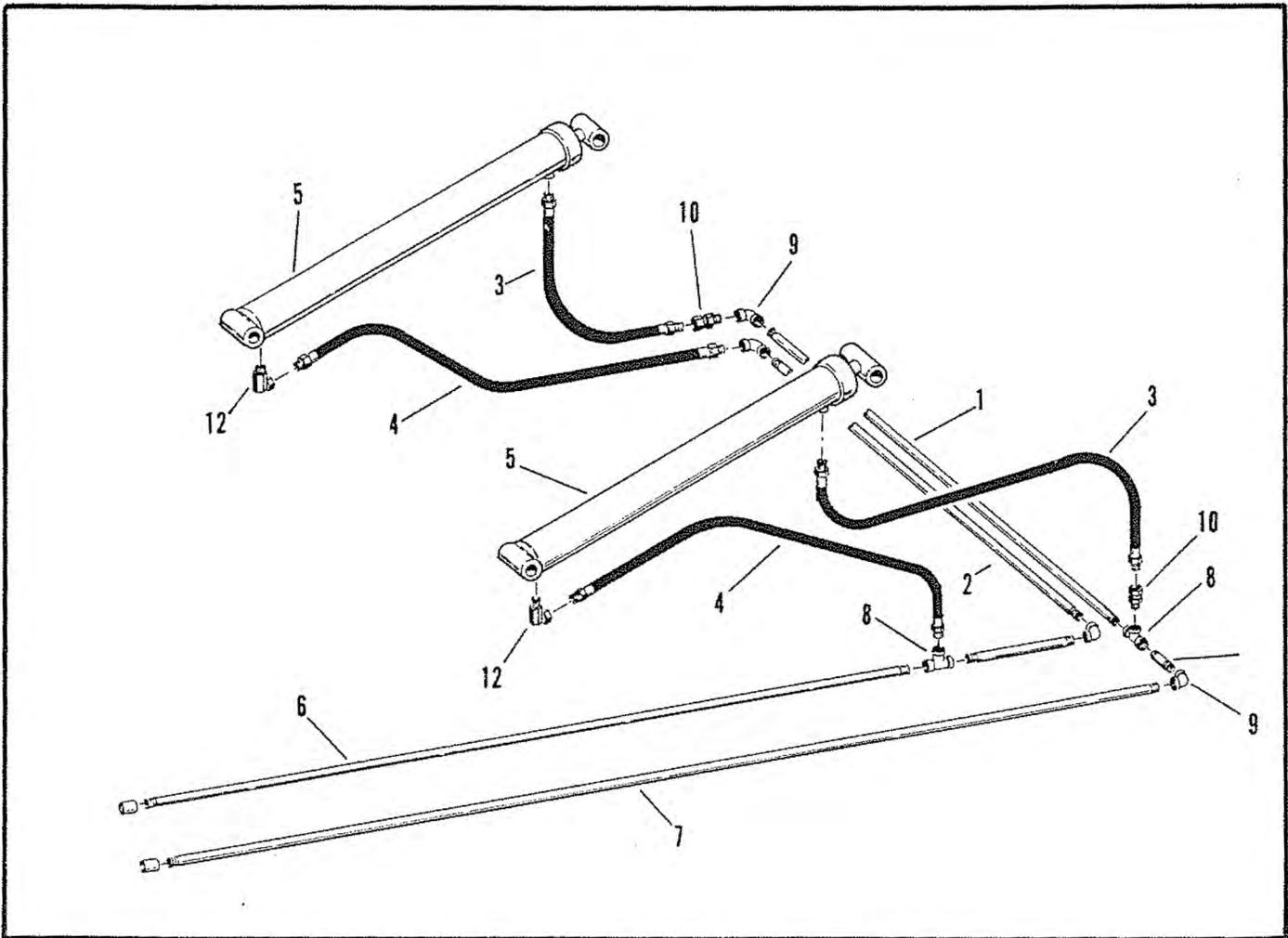
30	8R7022	BRACKET, motor mount	1
31	8R7030	MOTOR, hydraulic (2000 Series)	1
32	8R7040	VALVE, cushion (1/2" NPT ports)	1
	8R7041	VALVE, cushion (7/8" - 14 ORB ports)	1
33	8X0028	CAP SCREW, socket 3/8" NC x 2"	3
34	8R7043	O-RING	2
35	8X0062	CAP SCREW, hex hd., 1/2" NC x 2"	2
36	8X0303	WASHER, lock 1/2"	2
37	8X0240	NUT, hex 1/2" NC	2
38	8R6852	ADAPTER, 90° (1/2" MP x 1/2" FPT)	2
	8R6856	ADAPTER, 90° (7/8" - 14 ORB x 1/2" FPT)	2

### Motor and mount on units mfg'd. by Crown

39	8R7020	BRACKET, motor mount	1
40	8R7028	MOTOR, hydraulic (3000 Series)	1
41	8R7038	VALVE, cushion (For 3000 Series Motor)	1
42	8X0025	CAP SCREW, socket hd., 5/16" NC x 3"	6
43	8R7036	O-RING	2
44	8X0005	BOLT, 3/8" NC x 1-1/2"	4
45	8X0301	WASHER, lock 3/8"	4
46	8X0201	NUT, hex 3/8" NC	4
47	8X0670	ELBOW, street 1/2" NPT	4

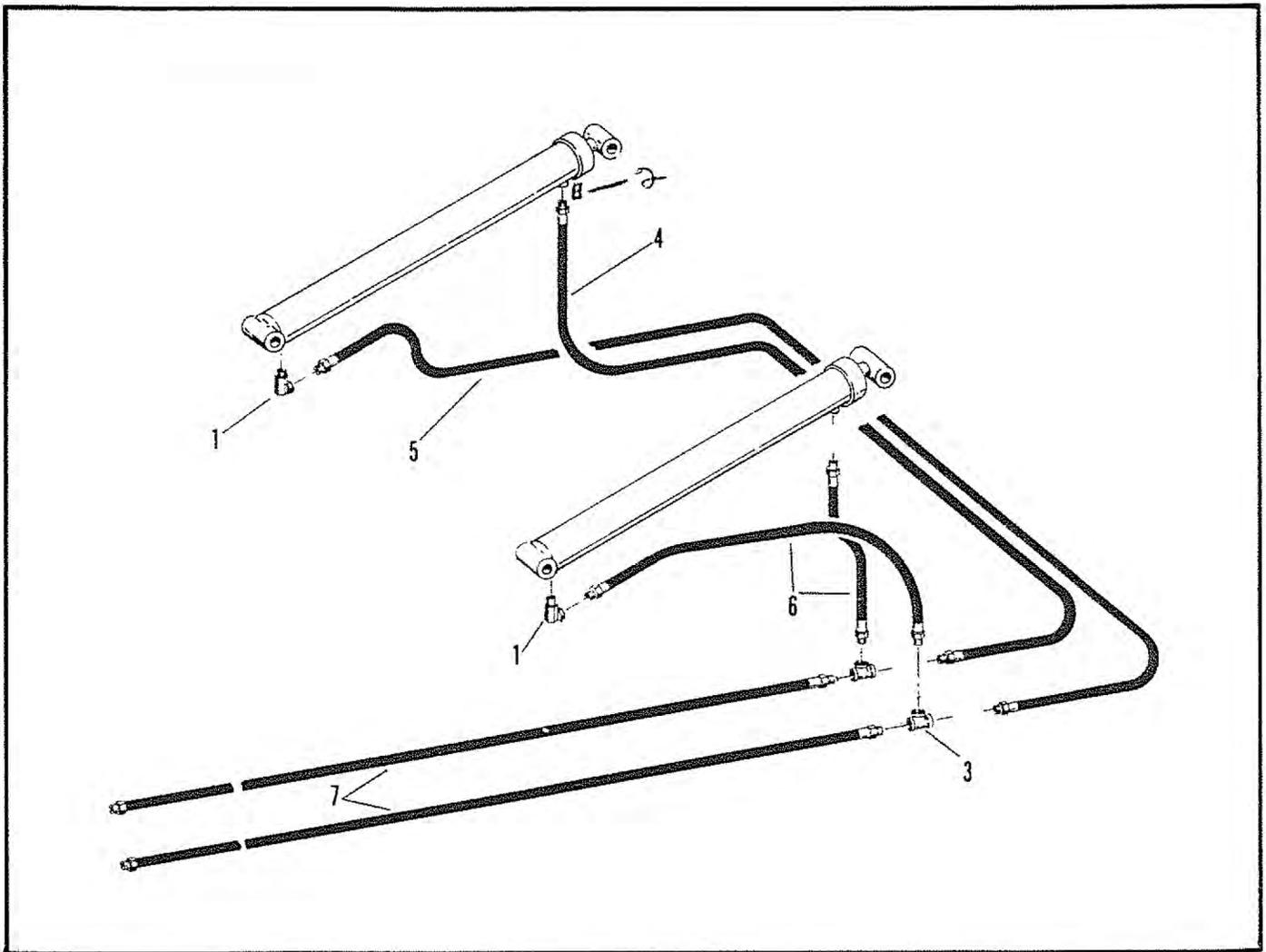
### Motor & Valve Parts

8R7048	SHIM, cushion valve pressure relief (2000 Series)
8R7200	SEAL KIT, motor (3000 Series)
8R7400	SEAL KIT, motor rear (2000 Series)
8R7405	SEAL KIT, motor shaft (2000 Series)
8R7406	SEAL KIT, motor (2000 series)



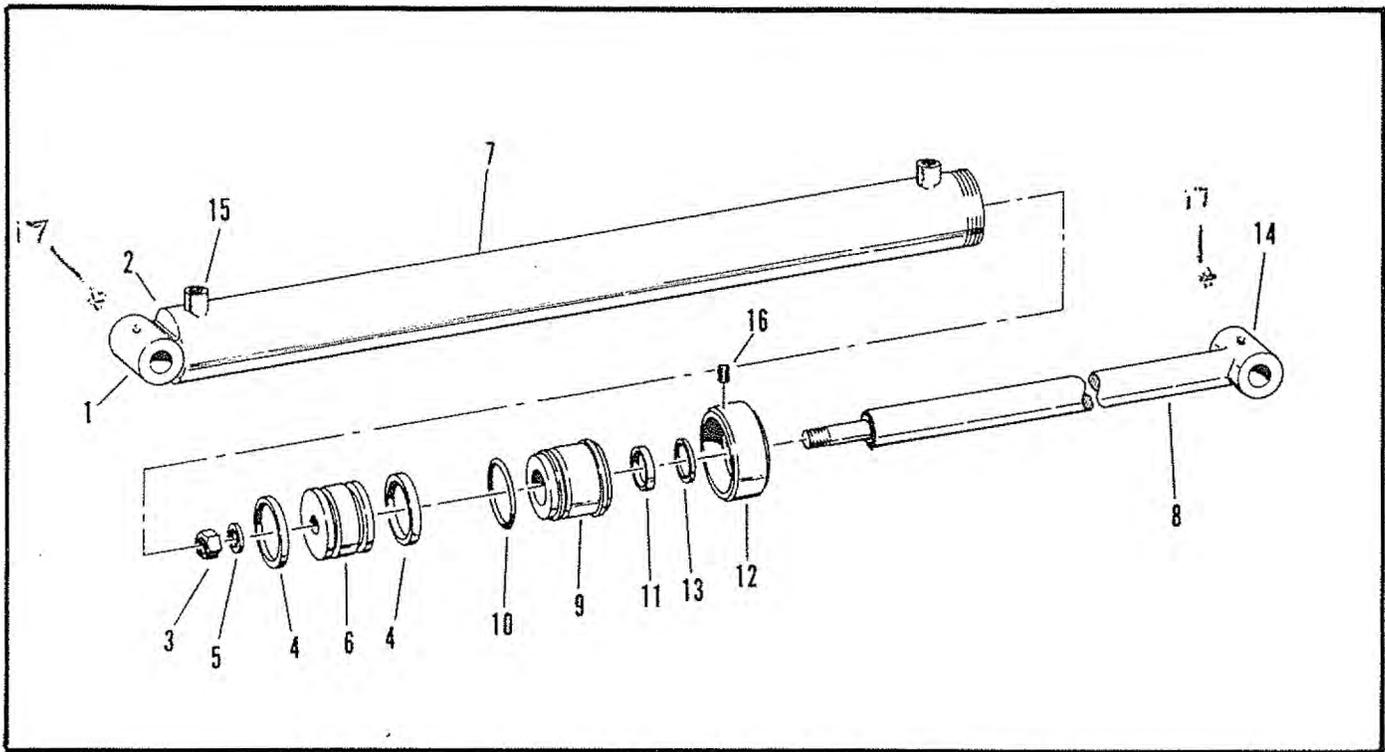
**HYDRAULIC DUMP SYSTEM**  
(Prior to 1981)

Ref.	Part No.	Description	Qty.
1	8R6845	LINE, hydraulic 1/2" NPT x 74"	1
2	8R6850	LINE, hydraulic 1/2" NPT x 87"	1
3	8D3105	HOSE, hydraulic 3/8" R1 x 32"	2
4	8R6865	HOSE, hydraulic 3/8" R1 x 57"	2
5	8R6870	CYLINDER, hydraulic (3" x 31")	2
6	8R6830	LINE, hydraulic 1/2" NPT x 88"	1
7	8R6840	LINE, hydraulic 1/2" NPT x 97-1/2"	1
8	8X0650	TEE, 1/2" NPT	2
9	8X0660	ELBOW, 1/2" NPT	2
10	8X0700	COUPLER, 1/2" NPT	2
11	8D3098	BUSHING, steel 1/2" NPT-M x 3/8" NPT-F	4
12	8R6853	ADAPTER, 90° (3/8" MP x 3/8" FPX)	2
13	8R6855	SWIVEL (3/8" MP x 3/8" FPX)	2



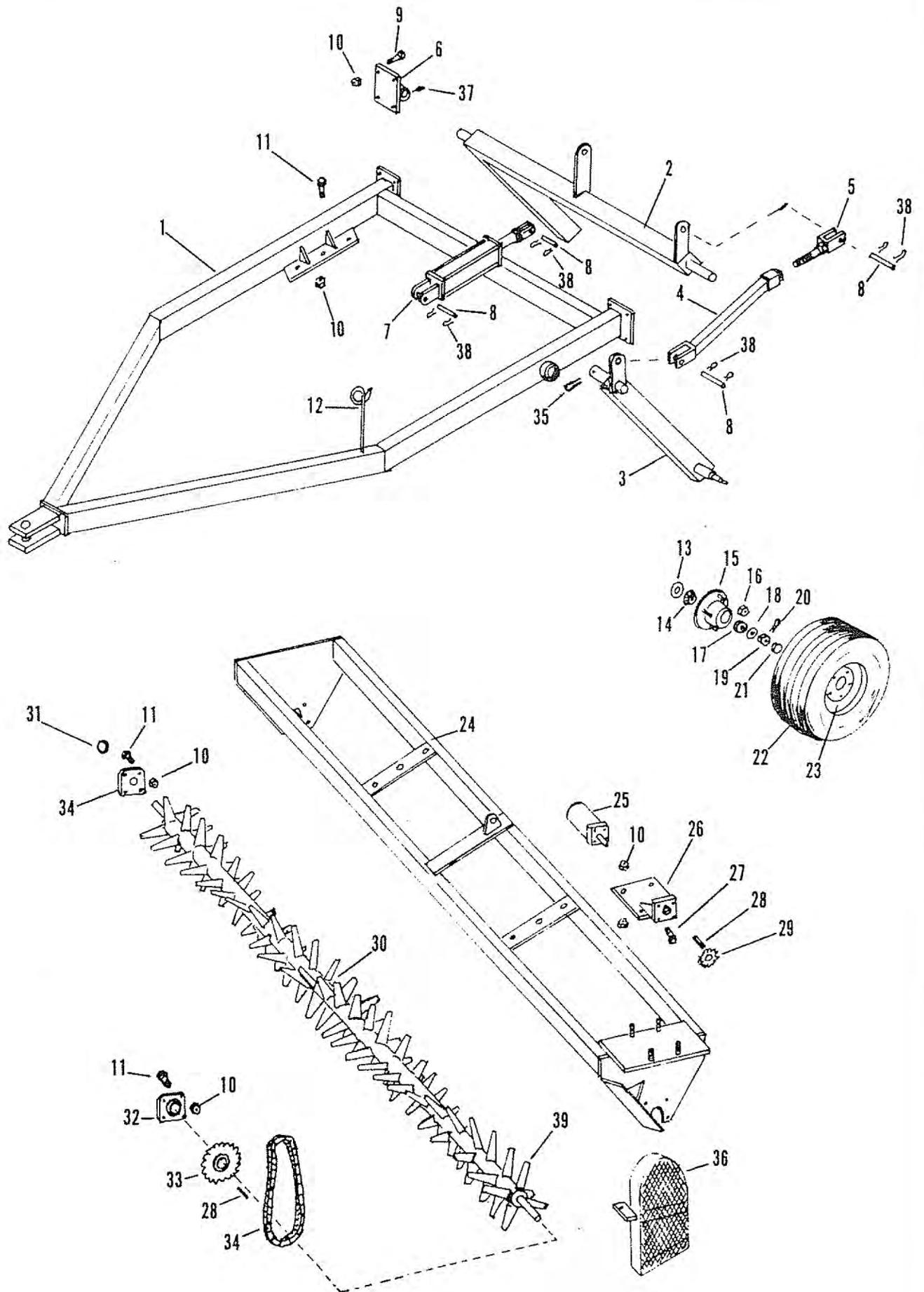
**HYDRAULIC DUMP SYSTEM**  
(1982 and Later Models)

Ref.	Part No.	Description	Qty.
1	8R6853	ADAPTER, 90° (3/8" MP x 3/8" FPT)	2
2	8W1580	SWIVEL, (3/8" MP x 3/8" FPT)	1
3	8R6942	TEE, SWIVEL (3/8" FPT)	2
4	8R6866	HOSE, hydraulic 3/8" R1 x 148"	1
5	8R6867	HOSE, hydraulic 3/8" R1 x 158"	1
6	8D3105	HOSE, hydraulic 3/8" R1 x 32"	2
7	8R6868	HOSE, hydraulic 3/8" R1 x 180"	2



**ROTARY ROCKPICKER CYLINDER BREAKDOWN**  
(Rugby Hydraulic Cylinders)

Ref.	Part No.	Description	Qty.
	8R6870	CYLINDER, hydraulic 3 x 31"	
1	NSS	PINEYE, anchor end	1
2	NSS	BUTT PLATE	1
3	8R4412	NUT, piston	1
4	NSS	U-CUP	2
5	NSS	O-RING	1
6	8R7610	PISTON	1
7	NSS	TUBE	1
8	NSS	ROD	1
9	8R7612	GLAND	1
10	NSS	O-RING	1
11	NSS	U-CUP, Rod	1
12	8R7614	RETAINER RING	1
13	NSS	ROD WIPER	1
14	NSS	PINEYE, Rod End	1
15	NSS	HALF-COUPLING	2
16	8R7616	SET SCREW	1
	8R6873	SEAL KIT (Includes Ref. 4, 5, 10, 11, & 12)	1
	8R6871	SEAL KIT, Prince 3x31"	1
	8R6872	SEAL KIT, Cross 3x31	1
17	8R4434	GREASE ZERK	2



## WR 120 WINDROWER

Ref.	Part No.	Description	Qty.
1	8R1020	MAIN FRAME ASSEMBLY	1
2	8R1040	AXLE ASSEMBLY, main	1
3	8R1060	AXLE, adjustable	1
4	8R1080	BAR, axle adjustment	1
5	8R1100	CLEVIS	1
6	8R1120	BEARING, main axle	2
7	8D9116	CYLINDER, hydraulic 2-1/2" bore x 8" stroke	1
8	8D9100	PIN, cylinder	4
9	8X0087	BOLT, 5/8" NC x 1-1/2"	8
10	8X0250	NUT, 5/8" NC	22
11	8X0093	BOLT, 5/8" NC x 2"	14
12	8R1160	BRACKET, hose	1
13	8D5220	SEAL, bearing	2
14	8D5217	BEARING, inner (LM48548)	2
15	8D5211	HUB, 5 bolt (H517 w/Races & Grease Fitting)	2
16	8D5214	NUT, wheel 1/2" NF	10
17	8D5117	BEARING, outer (LM67048)	2
18	8D5219	WASHER, axle 7/8" ID	2
19	8D5212	NUT, axle 7/8" NF	2
20	8X0415	PIN, cotter 3/16" diameter x 1-3/4"	2
21	8D5213	CAP, dust	2
22	8D3002	WHEEL & TIRE, 7.60 x 15" tire & tube	2
23	8D3000	WHEEL, 15" x 5" - 5 bolt	2
24	8R1180	CARRIAGE, drum 12"	1
25	8R1200	MOTOR, hydraulic	1
26	8R1280	BRACKET, motor mount	1
27	8X0002	BOLT, 3/8" NC x 1"	4
28	8R1270	KEY	1
29	8R1260	SPROCKET, 12 tooth	1
30	8R1300	DRUM, 12"	1
31	8R1320	RING, lock	1
32	8R1330	BEARING, flange	2
33	8R1255	SPROCKET, 16 tooth	1
34	8R1250	CHAIN, #80	1
35	8X0414	PIN, cotter 1/4" diameter x 2"	1
36	8R1340	GUARD, chain	1
37	8X0725	FITTING, grease	2
38	8D9110	PIN, hair clip	8
39	7R1140	TOOTH, drum	x