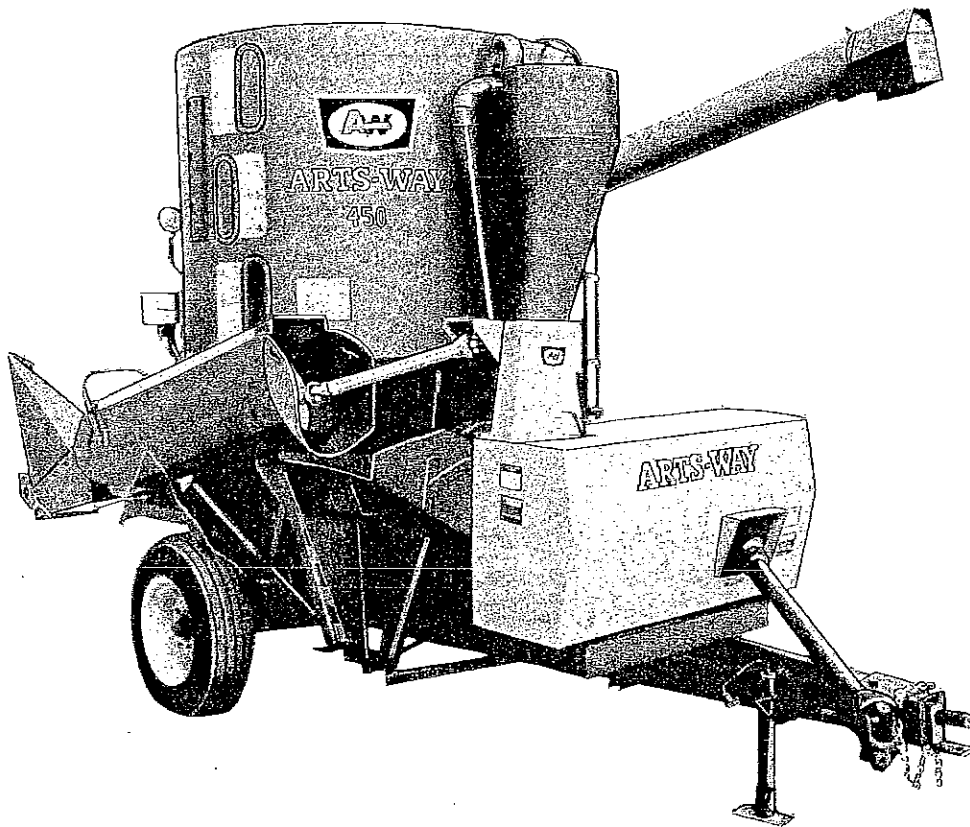


ARTS-WAY

PARTS MANUAL



Model 450

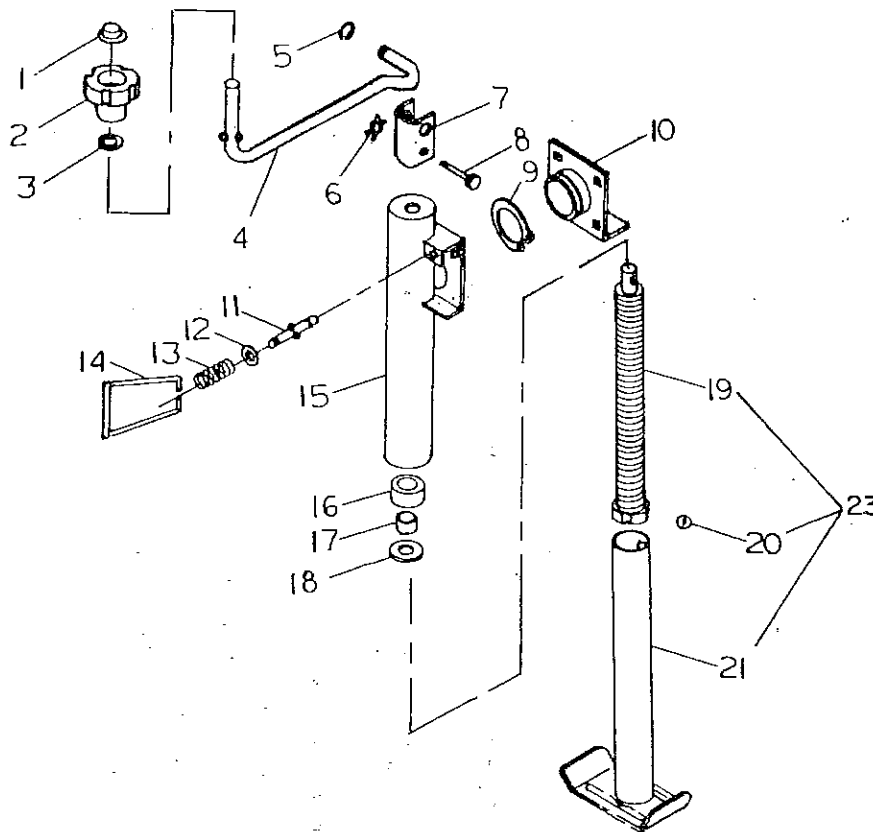
FEED MIXER AND MILL

ARTS-WAY

Mfg. Company / Armstrong, Iowa 50514 / Phone (712) 864-3131

Part No. 099-14885-0

JACK ASSEMBLY



Key	Part Number	Description	Qty.
	418-04044-0	Complete jack assembly	
1	303-04023-0	Spring steel grip keeper	1
2	315-04024-0	Swivel grip for handle	1
3	340-04025-0	Flat washer, 1/2"	1
4	415-04026-0	Handle for swivel jack	1
5	340-04027-0	"C" Washer holds jack crank	1
6	340-04032-0	"X" Washer hold crank pin	1
7	321-04028-0	Sleeve, for jack crank handle	1
8	323-04033-0	Crank handle pin	1
9	335-04029-0	Snap ring heavy duty	1
10	404-04030-0	Jack bracket welds to frame	1
11	423-04031-0	Lock pin plunger	1
12	340-04034-0	Flat washer, 1/2	1
13	438-04035-0	Lock pin plunger spring	1
14	435-04036-0	Pull ring for lock pin	1
15	418-04037-0	Jack top assembly	1
16	301-04038-0	Jack thrust bearing	1
17	405-04039-0	Nylon bushing	1
18	340-04040-0	Thrust bearing washer	1
19	431-04041-0	Screw rack assembly	1
20	330-04042-0	Ball, rack keeper	1
21	418-04043-0	Jack bottom assembly	1
23	418-04408-0	Bottom half screw and foot assembly	

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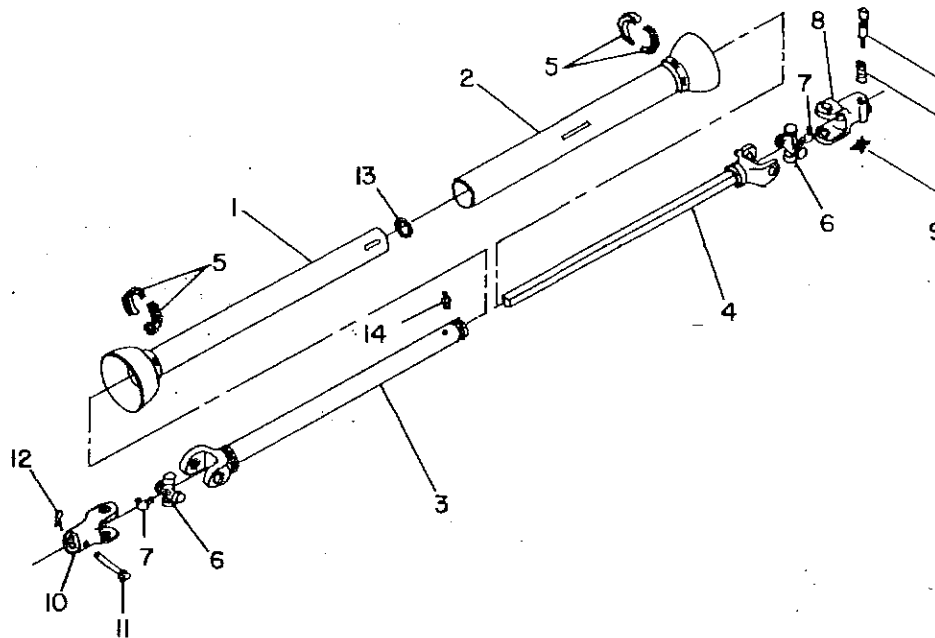
MODEL 450 GRINDER/MIXER PARTS LIST

DESCRIPTION	PAGE	DESCRIPTION	PAGE
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Powershaft Assembly	3	First Section Back Auger	28, 29
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Hammermill Housing and Parts	6, 7	Shields	32
Hammermill Main Shaft Unit	8	Paint, Decals, and Miscellaneous	33
Intake Auger and Parts	9	Electronic Scale & Related Accessories	34, 35
Belt Drive 540 and 1,000 RPM	10, 11	Governor Unit	35
Mill — Dust Collector Assembly	12	Hydraulic Back Auger and Vertical Extensions	36, 37
Bottom Drive Unit	13	3' and 6' Folding Discharge Auger Extensions	38
Top Mill Clutch	14	Quick Tach and Bolt-on Auger Extensions	39
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Hydraulic Drive Auger Feeder	25		

GENERAL INFORMATION

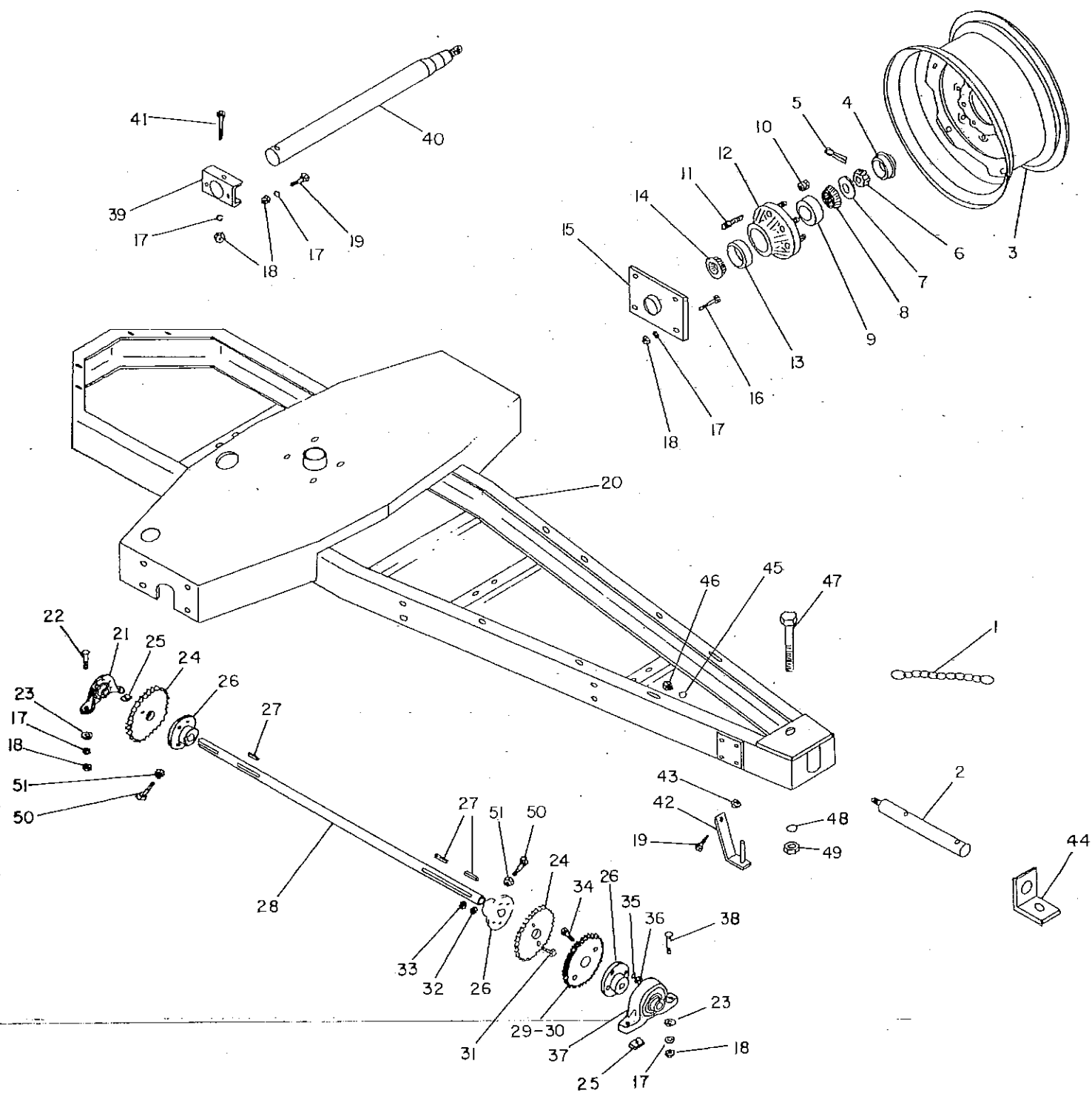
1. Unless otherwise specified, high-strength SAE 5 (3 radial-line head markings) hex head cap screws are used throughout this manual.
2. Whenever the terms "left" and "right" are used it should be understood to mean from a position behind and facing the machine.
3. Consult the Model 450 Operator's Manual (No. 099-14565-0) for information pertaining to the general operation of your portable grinder-mixer unit.
4. When placing a Part's Order, be sure to consult this manual for proper part's numbers.

POWERSHAFT ASSEMBLY



Key	Part Number	Description	Qty.
	426-03943-0	Complete powershaft assembly — 540 rpm	
	426-03944-0	Complete powershaft assembly — 1,000 rpm	
	426-03938-0	Complete implement half assembly	
	426-03946-0	Implement half less shield	
	426-03931-0	Complete tractor half — 540 rpm	
	426-03945-0	Tractor half less shield — 540 rpm	
	426-03930-0	Complete tractor half — 1,000 rpm	
	426-03947-0	Tractor half less shield — 1,000 rpm	
1	433-03940-0	Inner shield	1
2	433-03933-0	Outer shield	1
3	426-03939-0	Yoke tube and sleeve	1
4	426-03932-0	Yoke and tractor shaft	1
5	401-03937-0	Nylon shield bearing	2
6	420-03936-0	Cross and bearing kit	2
7	324-03517-0	Angle grease fitting	2
8	426-03934-0	Tractor yoke assembly — 540 rpm	1
	426-03935-0	Tractor yoke assembly — 1,000 rpm	1
9	426-01030-0	Lock pin, spring and lock assembly — 540 rpm yoke	1
	426-02134-0	Lock pin, spring and lock assembly — 1,000 rpm yoke	1
10	426-03941-0	Implement yoke, 1-5/8 bore	1
11	323-02136-0	Clevis pin, 5/16 dia. x 3-1/2	1
12	319-02070-0	Cotter pin, 5/32 dia. x 1	1
13	401-03942-0	Center nylon bearing	1

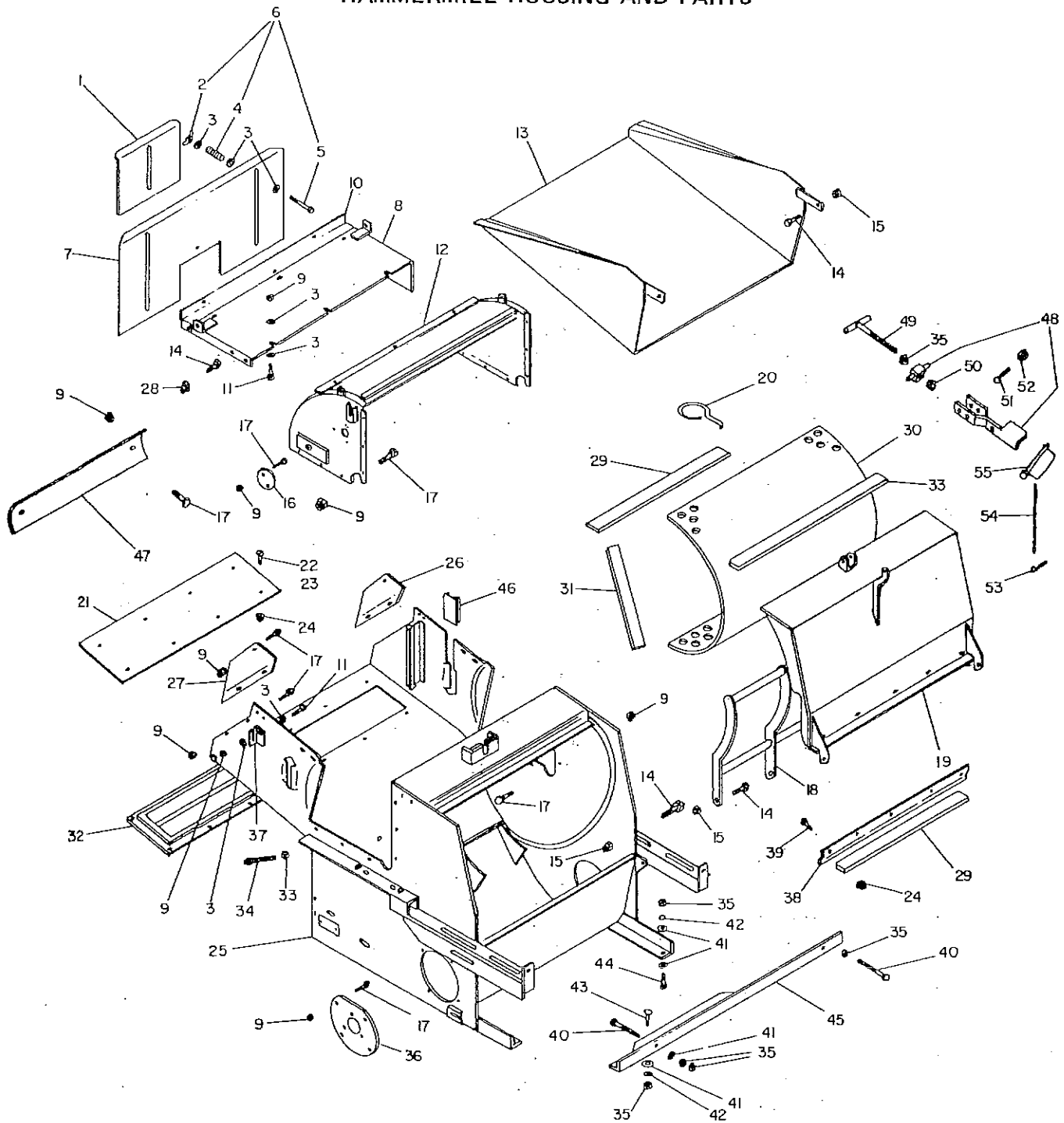
MAIN FRAME AND DRIVE



MAIN FRAME AND DRIVE

Key	Part Number	Description	Qty.
1	308-11929-0	Safety Chain	1
2	132-12478-0	Hitch bar	1
3	341-01871-0	Rim, heavy duty, 15 x 8 — 6 bolt wheel	2
4	441-03542-0	Hub cap	2
5	319-02663-0	Cotter pin, 5/32 dia. x 1-1/2	2
6	322-02071-0	Hex slotted nut, 3/4 — 16 UNF	2
7	140-02072-0	Spindle washer	2
8	301-01263-0	Bearing cone, outer wheel	2
9	301-01886-0	Bearing cup, outer wheel [for 301-01263-0 bearing]	2
10	322-02073-0	Nut for hub stud, 1/2 — 20 UNF	12
11	322-02074-0	Hub stud, 1/2 — 20 UNF x 1-1/2	12
12	341-01653-0	6 Bolt hub w/grg. races, studs and nuts	2
13	301-01885-0	Bearing cup, inner wheel [for 301-01652-0 bearing]	2
14	301-01652-0	Bearing cone with seal, inner wheel	2
15	204-03704-0	Spindle mounting bracket	2
16	303-01073-0	Hex cap screw, 1/2 — 13 NC x 1-1/4	8
17	340-00537-0	Lock washer, spring type 1/2	18
18	322-00536-0	Hex nut, 1/2 — 13 NC	18
19	303-01477-0	Hex cap screw, 1/2 — 13 NC x 1-1/2	5
20	212-13067-0	Main frame assembly	Not serviced
21	301-03508-0	Bearing, steel pillow block, 1-1/4 bore	1
22	303-01811-0	Carriage bolt, 1/2 — 13 NC x 1-1/2	2
23	340-00520-0	Flat washer, 1/2	4
24	137-03920-0	Sprocket, 40A28, 1-1/4 bore	2
25	136-03551-0	Spacer, 18 ga. [.049"]	As req'd
	136-11325-0	Spacer, 16 ga. [.065"]	As req'd
	136-11326-0	Spacer, 10 ga. [.134"]	As req'd
26	210-02008-0	Shear hub, 1-1/4 bore	3
27	119-03506-0	Sq. key, 5/16 x 5/16 x 2-1/2	3
28	132-13181-0	Mixer drive shaft	1
29	437-04142-0	Sprocket, 60A28, 1-1/4 bore	1
30	437-03918-0	Sprocket, 50A48, 1-1/4 bore	1
31	303-01205-0	Hex cap screw, 1/4 — 20 NC x 3/4	4
32	340-02944-0	Lock washer, spring type, 1/4	4
33	322-02766-0	Hex nut, 1/4 — 20 NC	4
34	303-00669-0	Hex cap screw, 3/8 — 16 NC x 1-1/4	2
35	303-02118-0	Lock washer, spring type, 3/8	2
36	322-02726-0	Hex nut, 3/8 — 16 NC	2
37	301-03509-0	Bearing, cast pillow block, 1-1/4 bore	1
38	303-02539-0	Carriage bolt, 1/2 — 13 NC x 1-3/4	2
39	104-04143-0	Rear spindle mounting bracket	2
40	132-04140-0	Spindle	2
41	303-03856-0	Hex cap screw, 1/2 — 13 NC x 4	2
42	204-10831-0	PTO holder	1
43	322-03754-0	Hex lock nut, 1/2 — 13 NC	1
44	121-03674-0	Hitch clevis	1
45	340-00335-0	Lock washer, spring type, 1"	1
46	322-99051-0	Hex lock nut, 1" — 8 NC	1
47	303-99096-0	Hex cap screw, 3/4 — 10 NC x 4-1/2	1
48	340-03680-0	Lock washer, spring type, 3/4	1
49	322-03675-0	Hex nut, 3/4 — 10 NC	1
50	303-03351-0	Square head set screw, 5/16 — 18 NC x 3/4	3
51	322-03350-0	Jam nut, 5/16 — 18 NC	3

HAMMERMILL HOUSING AND PARTS

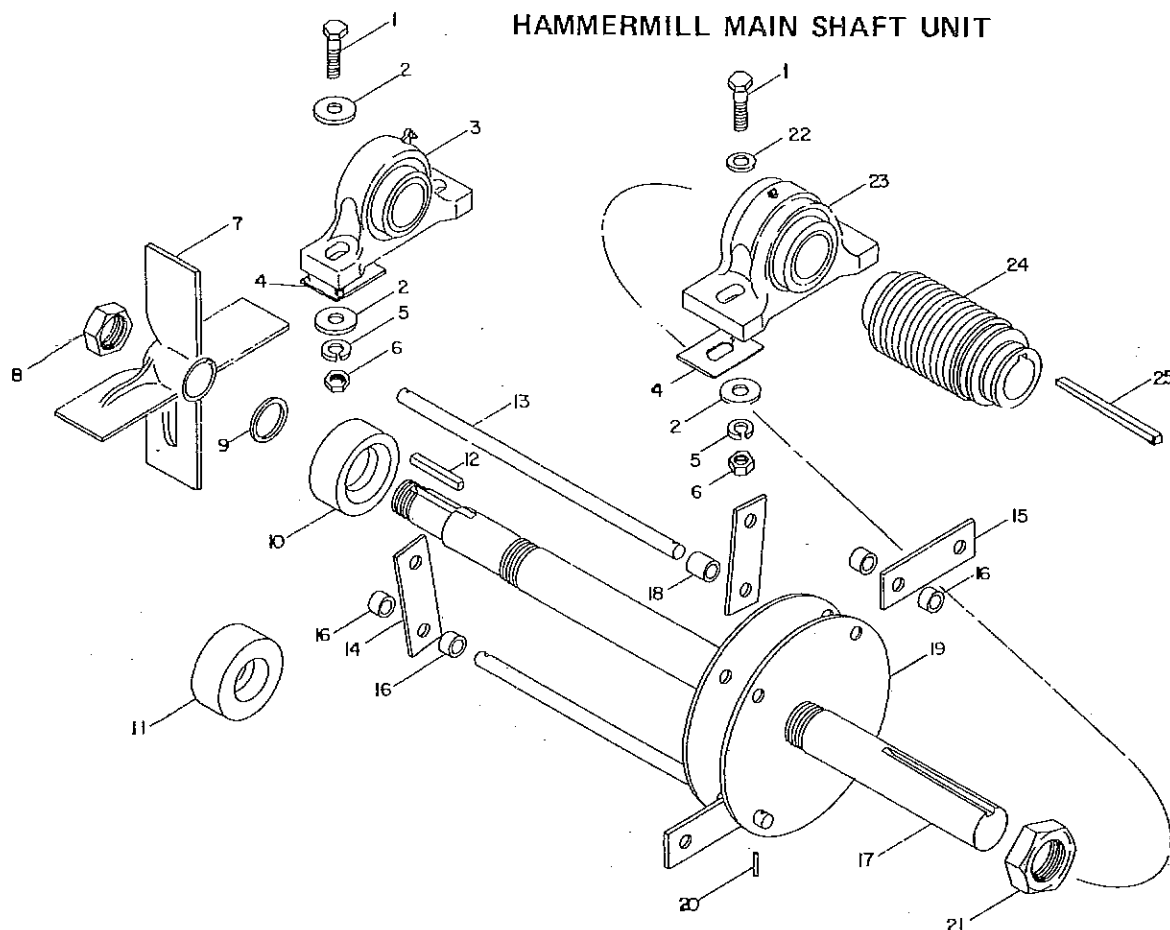


Key	Part Number	Description	Qty.
1	112-01307-0	Small feed control gate	1
2	322-00979-0	Wing nut, 5/16 — 18 NC	3
3	303-02292-0	Flat washer, 5/16	17
4	438-01308-0	Compression spring, 5/8 dia. x 1-7/8	3
5	303-00980-0	Hex cap screw, 5/16 — 18 NC x 2-1/2	2
6	225-00981-0	Cap screw, wing nut and spring	
7	212-01309-0	Large feed control gate	1
8	216-14405-0	Roll feed cover	1

HAMMERMILL HOUSING AND PARTS (continued)

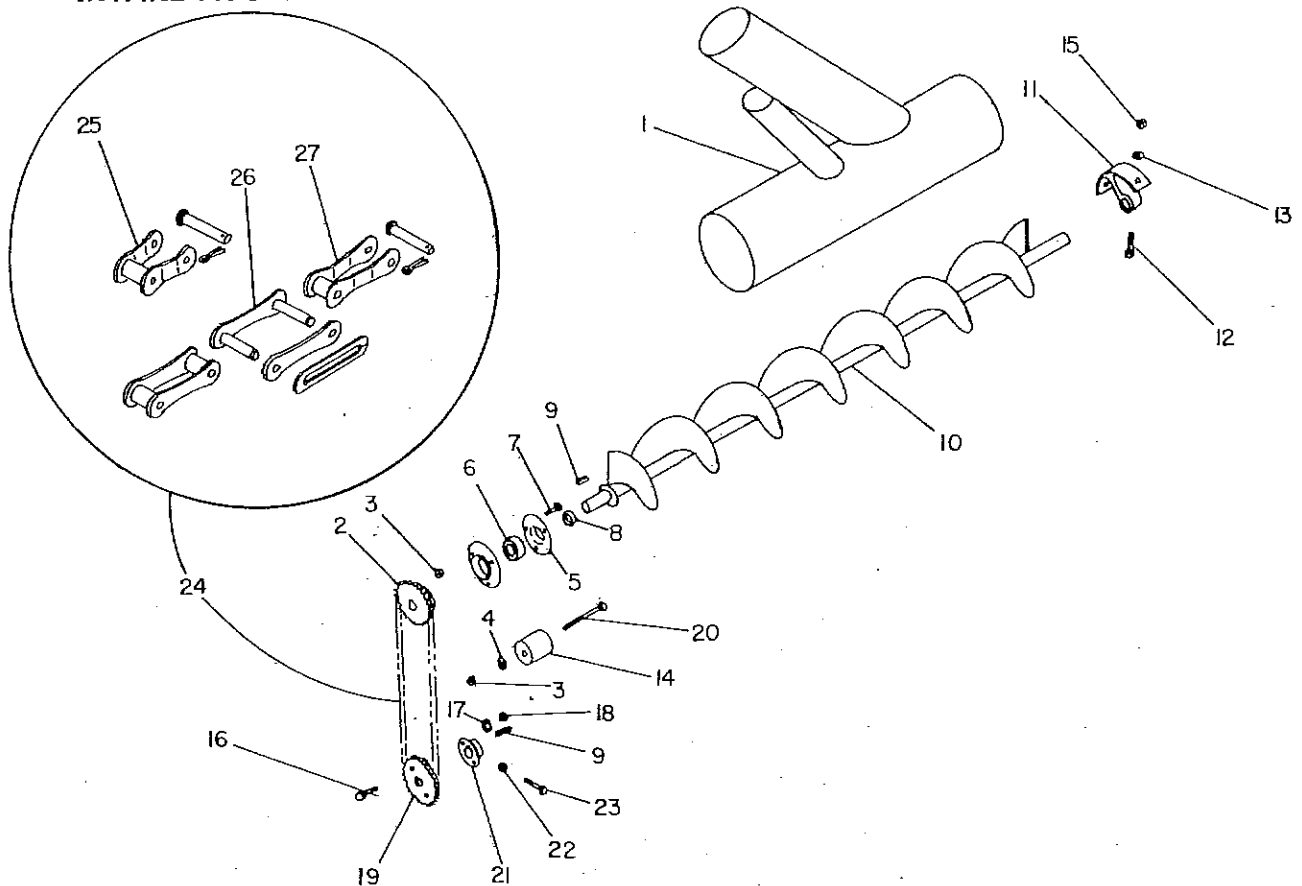
Key	Part Number	Description	Qty.
9	322-02019-0	Whiz lock nut w/flange, 5/16 — 18 NC	34
10	104-14416-0	Roll feed cover bracket	1
11	303-01214-0	Hex cap screw, 5/16 — 18 NC x 3/4	5
12	212-14423-0	Hammermill hood	1
13	233-01313-0	Folding mill hopper	1
14	303-02242-0	Hex cap screw, 3/8 — 16 NC x 3/4	8
15	322-02306-0	Lock nut, 3/8 — 16 NC	6
16	112-01292-0	Plate, hammer rod removal	1
17	303-00688-0	Hex cap screw, 5/16 — 18 NC x 5/8	30
18	212-14489-0	Screen support	1
19	212-14540-0	Hammermill door	1
20	142-01312-0	Screen hook	1
21	133-00977-0	Magnet hole cover plate	1
22	303-02124-0	Truss head screw, 1/4 — 20 NC x 1/2, without magnet	8
23	303-03523-0	Truss head screw, 1/4 — 20 NC x 3/4, with magnet	8
24	322-02327-0	Whiz lock nut w/flange, 1/4 — 20 NC	13
25	216-13403-0	Main hammermill housing	1
26	212-12178-0	Rear mill throat plate	1
27	212-12177-0	Front mill throat plate	1
	212-14762-0	Front mill throat plate for deeper notch	1
28	322-02018-0	Whiz lock nut w/flange, 3/8 — 16 NC	2
29	142-14547-0	Sealing strip, 1/4 x 3/4 x 20	2
30	443-00482-0	1/8 Screen	As req'd
	443-00484-0	3/16 Screen	As req'd
	443-00485-0	1/4 Screen	As req'd
	443-00486-0	5/16 Screen	As req'd
	443-00487-0	3/8 Screen	As req'd
	443-00489-0	1/2 Screen	As req'd
	443-00490-0	5/8 Screen	As req'd
	443-00491-0	3/4 Screen	As req'd
	443-00493-0	1 Screen	As req'd
	443-00495-0	1-1/2 Screen	As req'd
	443-00496-0	2 Screen	As req'd
31	142-14548-0	Sealing strip, 1/4 x 3/8 x 18-1/2	2
32	420-00974-0	Magnet, 18", No. 4	1
33	142-14546-0	Sealing strip, 3/8 x 1 x 20	1
34	303-03465-0	Hex cap screw with full threads, 1/2 — 13 NC x 3-1/2	3
35	322-00536-0	Hex nut, 1/2 — 13 NC	13
36	104-03538-0	Bearing holder plate	1
37	112-14516-0	Mounting bracket for top drag drive shield	1
38	112-14487-0	Seal plate, lower door	1
39	303-02945-0	Hex cap screw, 1/4 — 20 NC x 1/2	5
40	303-01380-0	Hex cap screw, 1/2 — 13 NC x 5	2
41	340-00520-0	Flat washer, 1/2	11
42	340-00537-0	Lock Washer, 1/2	6
43	303-01811-0	Carriage bolt, 1/2 — 13 NC x 1-1/2	2
44	303-01477-0	Hex cap screw, 1/2 — 13 NC x 1-1/2	4
45	204-03395-0	Belt tightener angle	1
46	233-01336-0	Cover over roll feed slots	2
47	112-14515-0	Curved cover	1
48	221-12783-0	Locking handle with pivot	1
49	221-12786-0	T-bar handle	1
50	322-12789-0	Lock nut, 1/2 — 13 NC	1
51	303-01241-0	Carriage bolt, 5/16 — 18 NC x 3/4	2
52	322-02567-0	Lock nut, 5/16 — 18 NC	2
53	319-03436-0	Cotter pin, 1/8 dia. x 1	1
54	408-14370-0	Chain, 10" long	1
55	323-14371-0	Snapper pin, 3/8 dia. x 2-1/2	1

HAMMERMILL MAIN SHAFT UNIT



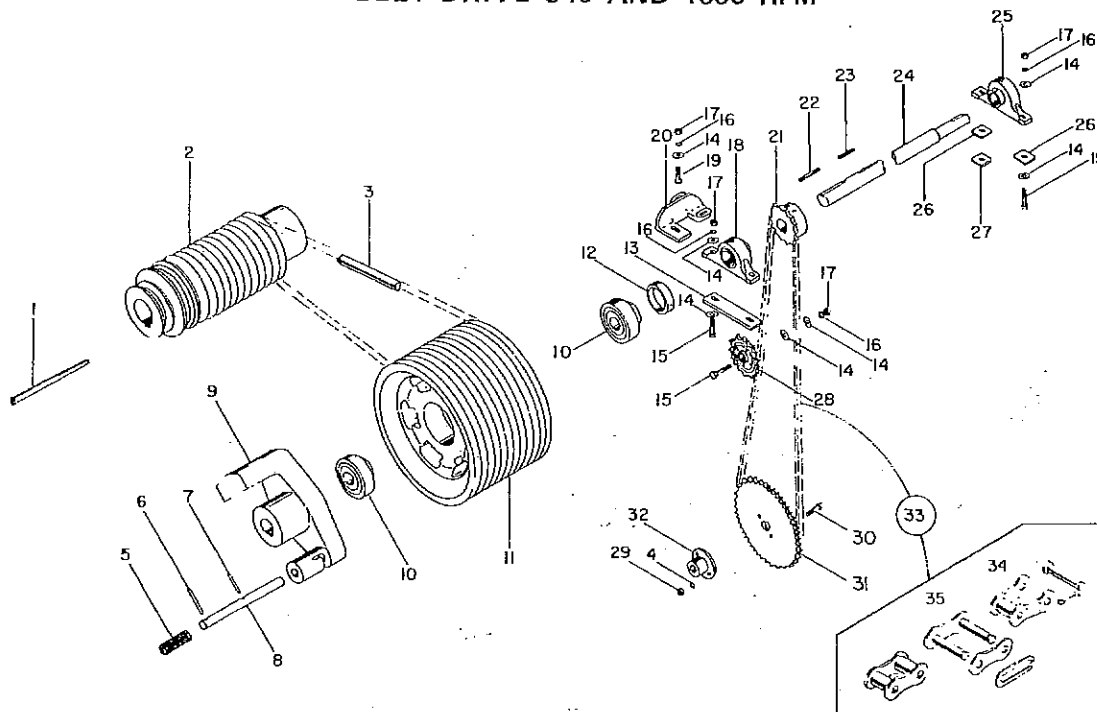
Key	Part Number	Description	Qty.
1	303-02311-0	Hex cap screw, 5/8 - 11 NC x 2-1/2	4
2	340-12792-0	Flat washer, 3/16 thick x 21/32 I.D. x 1-1/2 O.D.	6
3	301-01342-0	Pillow block ball bearing, 2" bore	1
4	113-03515-0	Seating gasket	4
5	340-02044-0	Lock washer, spring type, 5/8	4
6	322-02045-0	Hex nut, 5/8 - 11 NC	4
7	142-01352-0	Blower Fan	1
8	322-01353-0	Hex nut, 1-1/2 - 12 UNF	1
9	140-02056-0	Flat washer, 10 ga. [.134"] x 1-1/2 I.D. x 2 O.D.	1
10	136-02046-0	Cast spacer, center [Not sold separately, order item 26]	7
11	136-02047-0	Cast spacer, end [Not sold separately, order item 26]	2
12	119-01351-0	Sq. key, 3/8 x 3/8 x 1-1/4	1
13	129-01347-0	Rod, hardened	4
14	211-01350-0	Hammers, set of 36	1
15	211-01397-0	Hammers, set of 2	
16	136-01348-0	Spacer, 3/4 pipe x 5/8 long	36
17	132-01354-0	Cylinder shaft [Not sold separately, order item 26]	1
18	136-01349-0	Spacer, 3/4 pipe x 1-1/4 long	18
19	136-00908-0	Rotor plate [Not sold separately, order item 26]	10
20	323-01255-0	Expan pin, 1/4 dia. x 1-1/4	8
21	422-01344-0	Special hex nut, 2-1/4" [Not sold separately, order item 26]	2
22	340-03521-0	Flat washer, 3/16 thick x 5/8 I.D. x 1-5/16 O.D.	2
23	301-01395-0	Special pillow block spherical bearing, 2" bore	1
24	127-11040-0	Pulley, 14 groove	1
25	419-11039-0	Tapered key	1
26	225-02057-0	Rotor shaft assembly, sold as balanced unit only, includes items 10, 11, 17, 19 & 21	

INTAKE AUGER AND PARTS



Key	Part Number	Description	Qty.
1	212-13332-0	Mill to mixer tube	1
2	137-02186-0	Sprocket, 40B24, 1-1/8 bore	1
3	322-02018-0	Whiz lock nut w/flange, 3/8 - 16 NC	4
4	303-02119-0	Flat washer, 3/8	1
5	101-01915-0	3 Hole flange for 1-1/8 bore bearing	2
6	301-10885-0	Ball bearing with lock collar, 1-1/8 bore	1
	301-02023-0	Ball bearing only, 1-1/8 bore	
7	303-02017-0	Carriage bolt, 3/8 - 16 NC x 1	3
8	301-02010-0	Lock collar for 301-02023-0 bearing	
9	119-02022-0	Square key, 5/16 x 5/16 x 1-1/4	1
10	245-03826-0	Mill to mixer auger	1
11	101-02020-0	Nylon "T" bearing	1
12	303-00590-0	Hex cap screw, 5/16 - 18 NC x 1	2
13	303-02292-0	Flat washer, 5/16	2
14	442-04144-0	Wood block, 2" dia. x 1-1/2 long	1
15	322-02019-0	Whiz lock nut w/flange, 5/16 - 18 NC	2
16	303-01205-0	Hex cap screw, 1/4 - 20 NC x 3/4	2
17	340-02944-0	Lock washer, spring type, 1/4	2
18	322-02766-0	Hex nut, 1/4 - 20 NC	2
19	137-03920-0	Sprocket, 40A28, 1-1/4 bore	1
20	303-04145-0	Carriage bolt, 3/8 - 16 NC x 2	1
21	210-02008-0	Shear hub, 1-1/4 bore	1
22	322-03350-0	Jam nut, 5/16 - 18 NC	1
23	303-03351-0	Sq. head set screw, 5/16 - 18 NC x 3/4	1
24	308-03775-0	Roller chain, no. 2040, 34 pitches including connector link	1
25	308-01328-0	Offset link, no. 40	
26	308-01339-0	Connector link with spring clip, no. 2040	
27	308-01338-0	Offset link, no. 2040	

BELT DRIVE 540 AND 1000 RPM

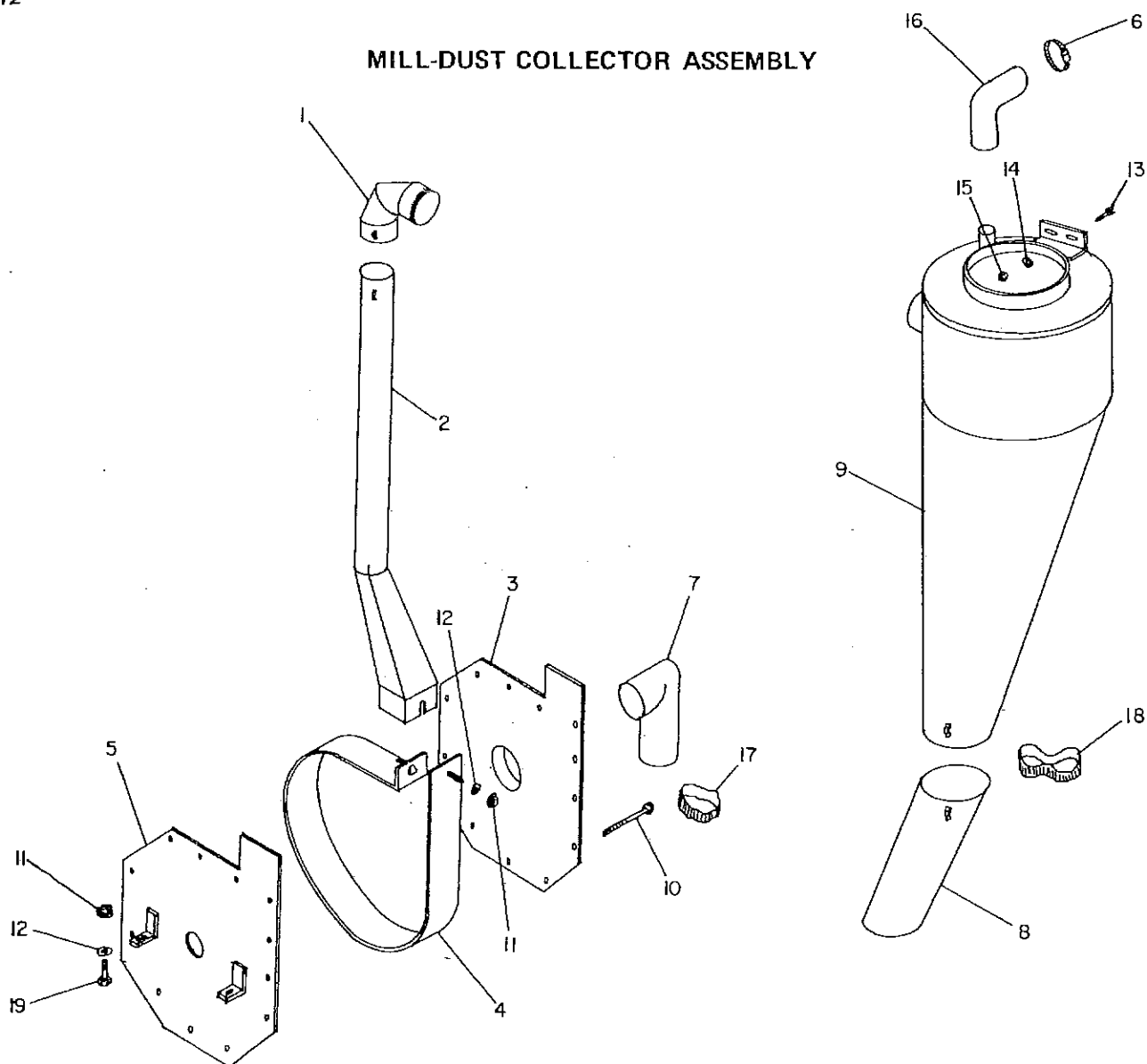


Key	Part Number	Description	Qty.
1	419-11039-0	Tapered Key	1
2	127-11040-0	Pulley, 14 groove	1
3	302-02108-0	Matched set of belts, six bands of two 3V800 belts, [540 rpm]	1
	302-02128-0	Matched set of belts, six bands of two 3V600 belts, [1,000 rpm]	1
4	303-02118-0	Lock washer, spring type, 3/8	2
5	438-01358-0	Compression spring, 1" dia. x 3-1/4	1
6	323-01360-0	Expan pin, 1/4 dia. x 2	1
7	323-01346-0	Expan pin, 1/4 dia. x 1-1/4	1
8	123-01359-0	Locking pin, 3/4 dia. x 6	1
9	126-01386-0	Drive clutch	1
10	301-01393-0	Ball bearing, 1-5/8 bore, cylindrical dia.	2
	301-04402-0	Bearing with collar [Items 10 & 12]	
11	427-01387-0	12 Groove V-belt pulley, 12-5/16 dia. for 1,000 rpm	1
	427-01675-0	12 Groove V-belt pulley, 22" dia. for 540 rpm	1
12	301-01394-0	Lock collar, 1-5/8 bore [Used on rear bearing only]	1
13	104-03582-0	Front jackshaft bearing brace	1
14	340-00520-0	Flat washer, 1/2	10
15	303-00708-0	Hex cap screw, 1/2 - 13 NC x 2-1/2	5
16	340-00537-0	Lock washer, spring type, 1/2	7
17	322-00536-0	Hex nut, 1/2 - 13 NC	7
18	301-01396-0	Pillow block ball bearing, 1-5/8 bore	1
19	303-03047-0	Carriage bolt, 1/2 - 13 NC x 1-1/4	2
20	404-01363-0	Holding bracket for bearing	1
21	437-01852-0	Sprocket, 50B15, 1-5/8 bore for 1,000 rpm	1
	437-04147-0	Sprocket, 60B16, 1-5/8 bore for 540 rpm	1
22	119-01369-0	Square key, 3/8 x 3/8 x 6-1/2 [cut off 1-1/2" after installation]	1
23	119-01370-0	Square key, 3/8 x 3/8 x 1-3/16	1
24	132-01398-0	Drive shaft	1
25	301-01367-0	Pillow block ball bearing, 1-7/16 bore	1
26	136-03578-0	Shim, 1/4 thick	2

BELT DRIVE 540 AND 1000 RPM (continued)

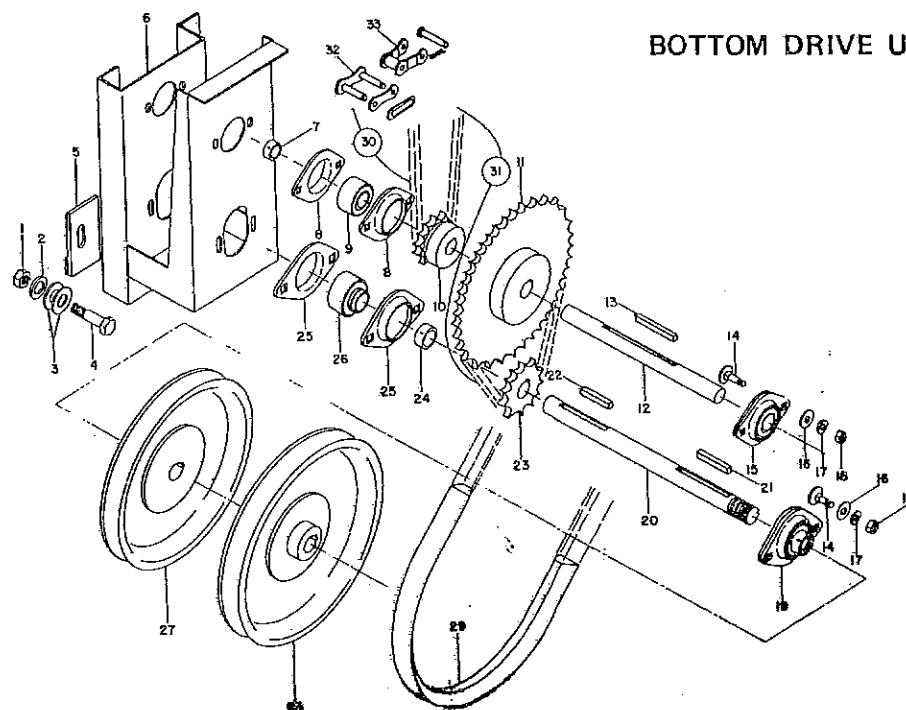
Key	Part Number	Description	Qty.
27	136-03579-0	Shim, 3/8 thick	1
28	337-02185-0	Idler sprocket, 50 — 17, 1,000 rpm	1
	337-02184-0	Idler sprocket, 60 — 15, 540 rpm	1
29	322-02726-0	Hex nut, 3/8 — 16 NC	2
30	303-01226-0	Hex cap screw, 3/8 — 16 NC x 1	2
31	437-03918-0	Sprocket, 50A48, 1-1/4 bore for 1,000 rpm	1
	437-04142-0	Sprocket, 60A28, 1-1/4 bore for 540 rpm	1
32	210-02008-0	Shear hub, 1-1/4 bore	1
33	408-02669-0	Roller chain, no. 50, 90 pitches including connector link, 1,000 rpm	1
	408-04150-0	Roller chain, no. 60, 70 pitches including connector link, 540 rpm	1
34	308-01377-0	Offset link, no. 50	
	308-01013-0	Offset link, no. 60	
35	308-01376-0	Connector link with spring clip, no. 50	
	308-01012-0	Connector link with spring clip, no. 60	
36	140-04146-0	Flat washer, 10 ga. [.134"] x 1-5/8 I.D. x 2 O.D. As req'd	

MILL-DUST COLLECTOR ASSEMBLY



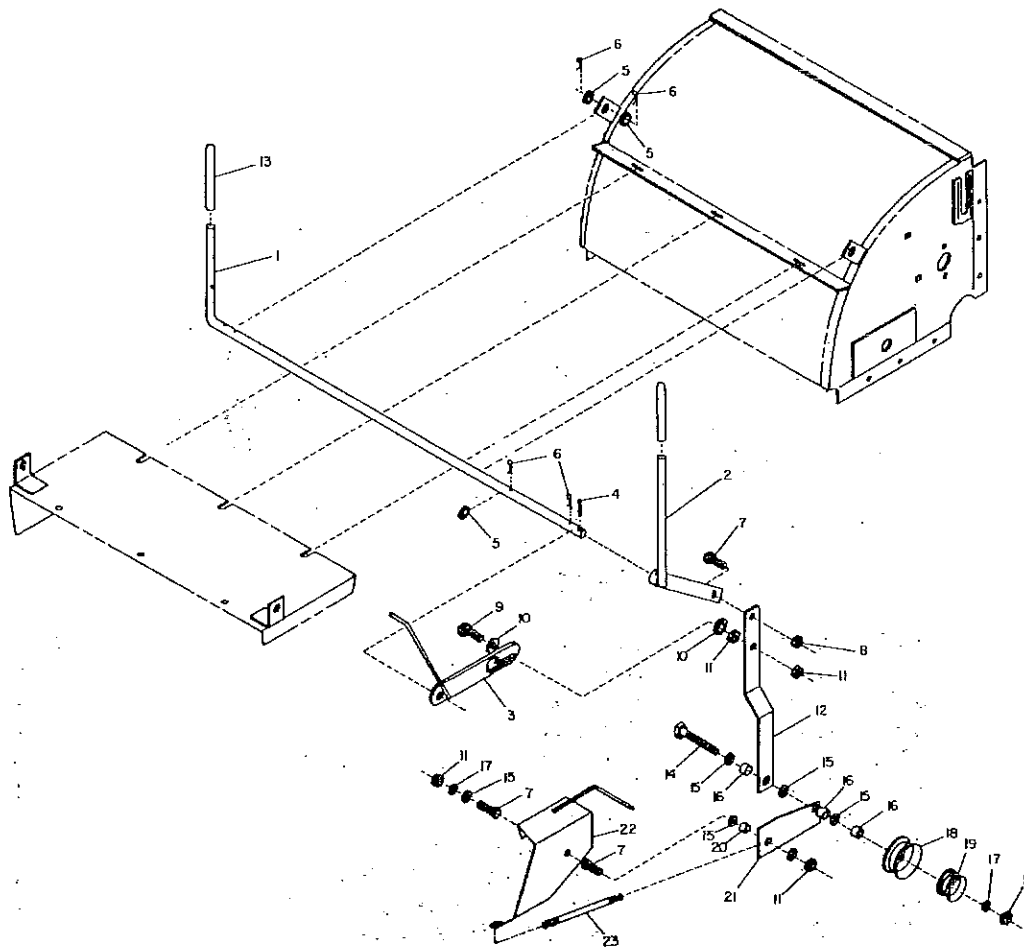
Key	Part Number	Description	Qty.
1	224-01278-0	4" Pipe elbow	1
2	224-03559-0	Pipe from blower to dust collector	1
3	216-13300-0	Fan housing, outside	1
4	216-01281-0	Circular fan housing	1
5	216-01283-0	Fan housing, next to mill	1
6	306-12853-0	Hose clamp, 2-3/4 dia.	2
7	224-14536-0	Suction pipe	1
8	224-03560-0	Coupler pipe from dust collector to mill to mixer tube	1
9	212-12596-0	Dust collector	1
10	303-01282-0	Hex cap screw, 5/16 - 18 NC x 5	12
11	322-02019-0	Whiz lock nut w/flange, 5/16 - 18 NC	16
12	303-02292-0	Flat washer, 5/16	6
13	303-03518-0	Carriage bolt, 3/8 - 16 NC x 1-1/4	2
14	303-02119-0	Flat washer, 3/8	2
15	322-02018-0	Whiz lock nut w/flange, 3/8 - 16 NC	2
16	442-12850-0	Hose elbow	1
17	434-12448-0	Rubber band, 4"	4
18	434-12471-0	Rubber band, 6"	4
19	303-00590-0	Hex cap screw, 5/16 - 18 NC x 1	2

BOTTOM DRIVE UNIT

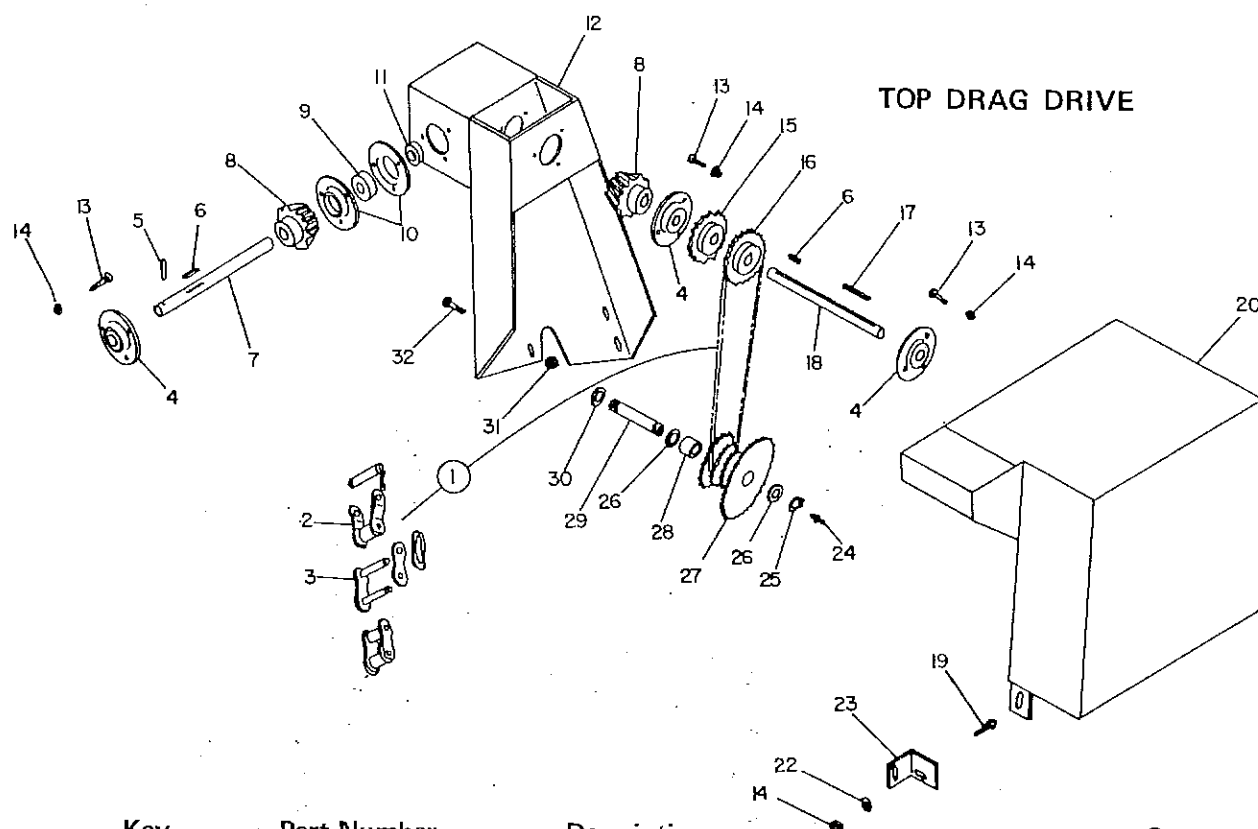


Key	Part Number	Description	Qty.
1	322-00536-0	Hex nut, 1/2 - 13 NC	3
2	340-00537-0	Lock washer, 1/2	3
3	340-00520-0	Flat washer, 1/2	6
4	303-01477-0	Hex cap screw, 1/2 - 13 NC x 1-1/2	3
5	136-01478-0	Shim	1
6	212-01479-0	Bottom drive unit	1
7	301-00857-0	Lock collar, 3/4 bore	2
8	301-00858-0	Flangette, 2 hole for 3/4 bearing	4
9	301-02168-0	Ball bearing, 3/4 bore, spherical dia.	2
10	437-14403-0	Sprocket, 40B18, 3/4 bore	1
11	237-01485-0	Sprocket, 40B54, 3/4 bore	1
12	132-01483-0	Shaft, 3/4 dia. x 6	1
13	119-04148-0	Sq. key, 3/16 x 3/16 x 3	1
14	303-01241-0	Carriage bolt, 5/16 - 18 NC x 3/4	8
15	201-01480-0	Bearing, lock collar and 2 flangettes [Items 7, 8, 9] 3/4 bore	
16	303-02292-0	Flat washer, 5/16	8
17	340-02362-0	Lock washer, spring type, 5/16	8
18	322-02363-0	Hex nut, 5/16 - 18 NC	8
19	201-01490-0	Bearing, lock collar and 2 flangettes [Items 24, 25, 26] 1" bore	
20	132-01491-0	Shaft, 1" dia. x 11-3/4	1
21	119-01492-0	Square key, 1/4 x 1/4 x 2-1/2	1
22	119-01000-0	Square key, 1/4 x 1/4 x 1	1
23	437-01494-0	Sprocket, 40B13, 1" bore	1
24	301-01230-0	Lock collar, 1" bore	2
25	301-02169-0	Flangette, 2 hole for 1" bearing	4
26	301-01231-0	Ball bearing, 1" bore, spherical dia.	2
27	327-01489-0	V-pulley, 9" O.D., 1" bore	1
28	327-01488-0	V-pulley, 10" O.D., 1" bore	1
29	302-01487-0	V-belt, 4L460	1
30	408-14522-0	Roller chain, no. 40, 55 pitches including connector link and offset link	1
31	408-01493-0	Roller chain, no. 40, 62 pitches including connector link	1
32	308-01329-0	Connector link with spring clip, no. 40	
33	308-01328-0	Offset link, no. 40	

TOP MILL CLUTCH



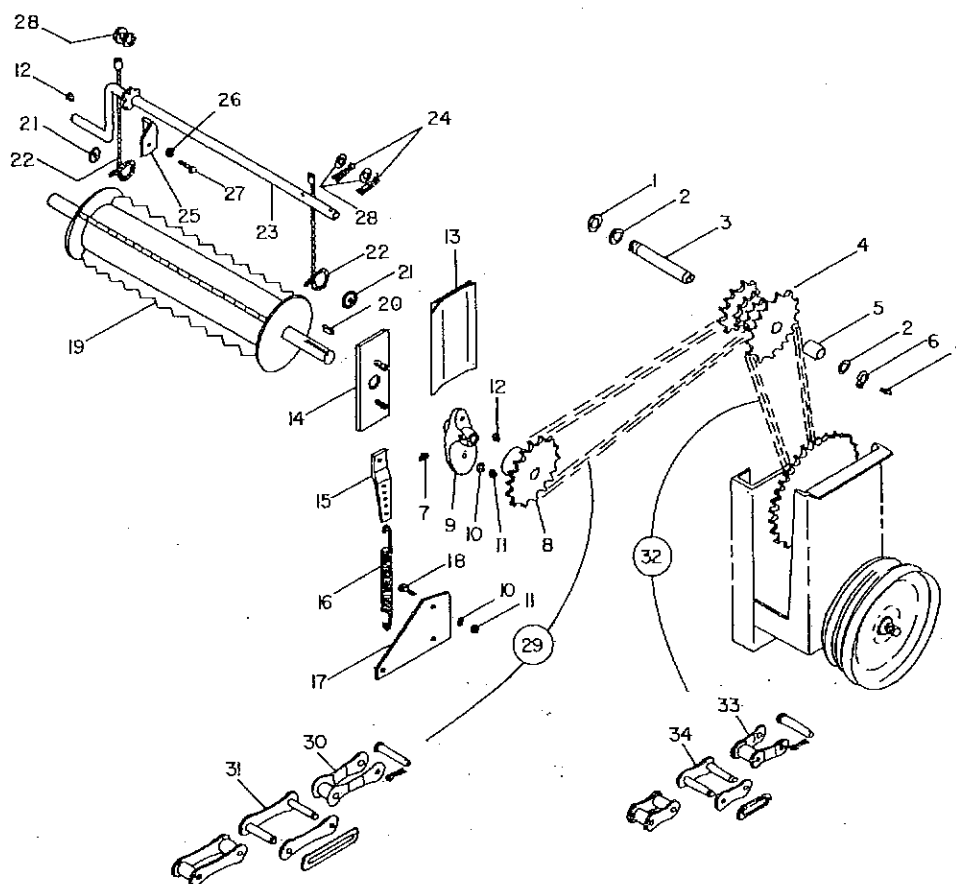
Key	Part Number	Description	Qty.
1	109-14399-0	Clutch rod	1
2	212-14407-0	Shut-off lever	1
3	204-14402-0	Lock handle	1
4	323-01255-0	Expan pin, 1/4 dia. x 1-1/4	1
5	340-03519-0	Flat washer, 5/8 I.D. x 1 O.D. x 14 ga. [.083"]	5
6	319-02636-0	Cotter pin, 5/32 dia. x 1-1/2	3
7	303-01226-0	Hex cap screw, 3/8 - 16 NC x 1	2
8	322-02306-0	Lock nut, 3/8 - 16 NC	2
9	303-00669-0	Hex cap screw, 3/8 - 16 NC x 1-1/4	1
10	340-12416-0	Flat washer, 3/8 I.D. x 1-3/4 O.D. x 12 ga. [.109"]	2
11	322-02726-0	Hex nut, 3/8 - 16 NC	2
12	112-14411-0	Linkage arm	1
13	442-12579-0	Plastic grip, 5/8 I.D.	1
14	303-99115-0	Hex cap screw, 3/8 - 16 NC x 4	1
15	303-02119-0	Flat washer, 3/8	5
16	136-03346-0	Spacer sleeve	3
17	303-02118-0	Lock washer, spring type	1
18	327-01164-0	Idler pulley, 3-1/4 dia.	1
19	327-01173-0	Idler pulley, 2-1/4 dia.	1
20	305-03838-0	Spacer sleeve, 3/8 I.D. x 1/2 O.D. x 5/16 long	1
21	104-11910-0	Belt tightener and adjustment plate	1
22	204-11909-0	Belt tightener bracket	1
23	338-01165-0	Extension spring, 1/2 dia. x 5" long	1



TOP DRAG DRIVE

Key	Part Number	Description	Qty.
1	408-03532-0	Roller chain, no. 2050, 41 pitches including connector link	1
2	308-03522-0	Offset link, no. 2050	
3	308-01327-0	Connector link with spring clip, no. 2050	
4	201-01130-0	Bearing, lock collar and 2 flangettes [Items 9, 10, 11] 1" bore	
5	323-01401-0	Expan pin, 5/16 dia. x 1-5/8	1
6	119-01000-0	Square key, 1/4 x 1/4 x 1	2
7	132-01476-0	Shaft, 1" dia. x 9	1
8	414-01232-0	Gear, 1" bore	2
9	301-01231-0	Ball bearing, 1" bore, spherical dia.	4
10	101-01233-0	Flangette, 3 hole for 1" bearing	8
11	301-01230-0	Lock collar, 1" bore	4
12	212-03528-0	Top drive unit, bolts to hammermill	1
13	303-03529-0	Carriage bolt, 5/16 - 18 NC x 5/8	12
14	322-02019-0	Whiz lock nut with flange, 5/16 - 18 NC	13
15	437-01465-0	Sprocket, 50B17, 1" bore	1
16	437-01466-0	Sprocket, 50B22, 1" bore	1
17	119-01463-0	Square key, 1/4 x 1/4 x 2	1
18	132-01464-0	Shaft, 1" dia. x 6	1
19	303-01214-0	Hex cap screw, 5/16 - 18 NC x 3/4	1
20	212-14514-0	Shield, top drag drive	1
22	303-02292-0	Flat washer, 5/16	2
23	112-14516-0	Shield mounting bracket	1
24	342-01317-0	Grease fitting, straight, 1/8 NPT	1
25	335-01325-0	Snap ring, external, 1" dia.	1
26	140-01323-0	Flat washer, 1" I.D. x 1-1/2 O.D. x 10 ga. [.134"]	As req'd
27	237-01475-0	Cluster sprocket with bushings [Item 28] 40 - 40, 50 - 13, 13, 18	1
28	305-01316-0	Oilite bushing, 1" I.D. x 1-1/4 O.D. x 1-1/4	2
29	132-01474-0	Shaft, L.H. thread	1
30	140-00310-0	Flat washer, 1" I.D. x 1-1/2 O.D. x 12 ga. [.109"]	As req'd
31	322-02018-0	Whiz lock nut with flange, 3/8 - 16 NC	3
32	303-02017-0	Carriage bolt, 3/8 - 16 NC x 1	3
33	140-00687-0	Flat washer, 1" I.D. x 1-1/2 O.D. x 16 ga. [.062"]	As req'd

ROLL FEED

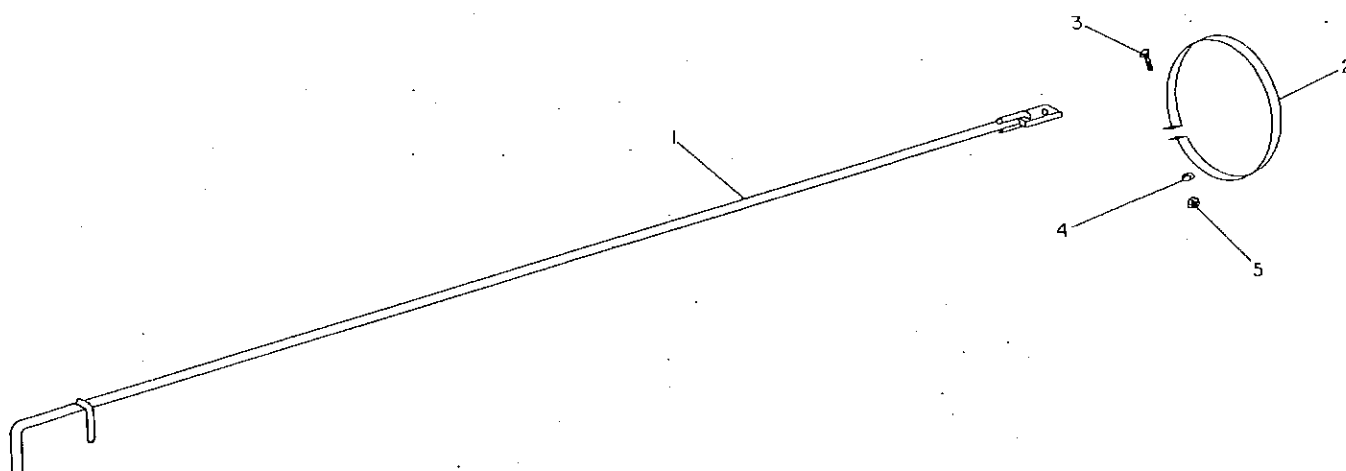


Key	Part Number	Description	Qty.
1	140-00310-0	Flat washer, 1" I.D. x 1-1/2 O.D. x 12 ga. [.109"]	1
2	140-01323-0	Flat washer, 1" I.D. x 1-1/2 O.D. x 10 ga. [.134"]	2
3	132-01474-0	Shaft, L.H. thread, 1" dia., x 4-1/2	1
4	237-01475-0	Cluster Sprocket with bushings [Item 5] 40 - 40, 50 - 13, 13, 18	1
5	305-01316-0	Oilite bushing, 1" I.D. x 1-1/4 O.D. x 1-1/4	2
6	335-01325-0	Snap ring, external, 1" dia.	1
7	342-01317-0	Grease fitting, straight, 1/8 NPT	3
8	437-01332-0	Sprocket, 1" bore, 50B28	1
9	401-01120-0	Bearing, 1" bore, cast	2
10	342-02362-0	Lock washer, spring type, 5/16	8
11	322-02363-0	Hex nut, 5/16 - 18 NC	8
12	303-02203-0	Lock nut, 5/16 - 18 NC	3
13	233-01336-0	Cover to fit slots in mill throat without roll feed	2
14	204-01333-0	Sliding plate	2
15	104-00790-0	Upper spring bracket	2
16	438-01720-0	Roll feed hold down spring	2
17	104-00791-0	Lower spring bracket	2
18	303-00590-0	Hex cap screw, 5/16 - 18 NC x 1	6
19	212-11849-0	Roll feed rotor	1
20	119-01153-0	Square key, 1/4 x 1/4 x 1-1/4	1
21	103-01905-0	Special lock washer	2
22	242-00788-0	Cable for roll feed adjustment	2
23	229-00796-0	Crank assembly	1
24	319-02070-0	Cotter pin, 5/32 dia. x 1	2
25	104-00793-0	Crank lock bracket	1

ROLL FEED (continued)

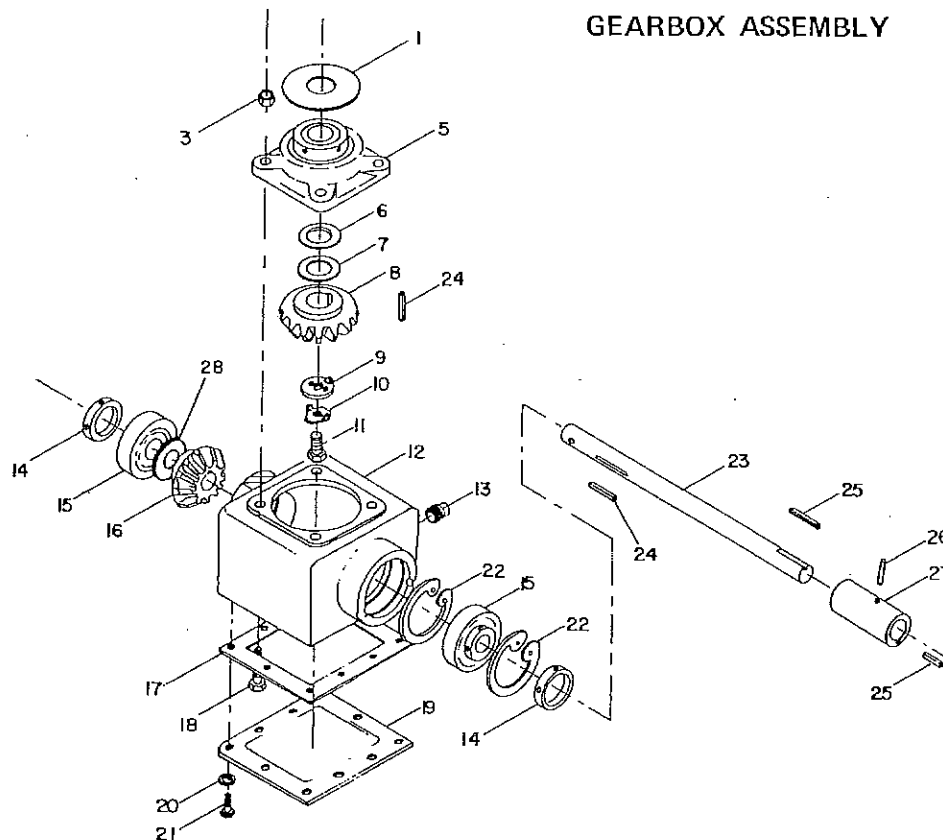
Key	Part Number	Description	Qty.
26	303-02292-0	Flat washer, 5/16	1
27	303-01214-0	Hex cap screw, 5/16 — 18 NC x 3/4	1
28	340-03521-0	Flat washer, 5/8 I.D. x 1-5/16 O.D.	10
29	408-01331-0	Roller chain, no. 2050, 24 pitches including connector link	1
30	308-03522-0	Offset link, no. 2050	
31	308-01327-0	Connector link with spring clip, no. 2050	
32	408-14522-0	Roller chain, no. 40, 55 pitches	1
33	308-01328-0	Offset link, no. 40	
34	308-01329-0	Connector link with spring clip, no. 40	

SWINGING ARM HANDLE ATTACHMENT



Key	Part Number	Description	Qty.
1	242-11378-0	Swinging arm handle, clamps to unloading auger tube	1
2	106-04114-0	Band, 8" dia.	1
3	303-00669-0	Hex cap screw, 3/8 — 16 NC x 1-1/4	1
4	340-02118-0	Lock washer, spring type, 3/8	1
5	322-02726-0	Hex nut, 3/8 — 16 NC	1
	220-11383-1	Swinging arm handle attachment kit for 8" dia. tubes	

GEARBOX ASSEMBLY

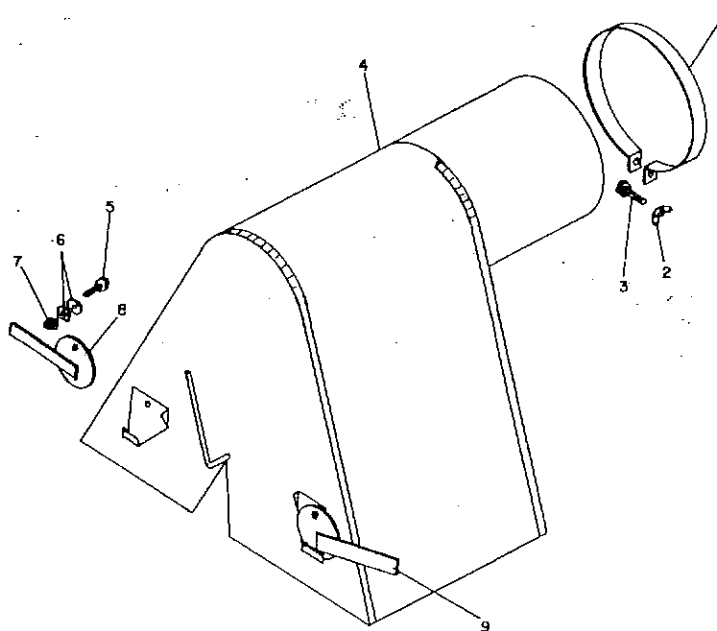


Key	Part Number	Description	Qty.
1	133-01057-0	Bearing protector plate	1
2	216-13119-0	Gear box case with bearings [Includes items 5, 12, 13, 14, 15 and 22]	
3	322-03754-0	Lock nut, 1/2 — 13 NC, plastic insert	4
5	301-02027-0	4-Bolt flange ball bearing, 1-5/8 bore	1
6	140-02029-0	Flat washer, 10 ga. [.134"] x 1-5/8 I.D. x 2-1/4 O.D.	As req'd
7	140-02030-0	Flat washer, 18 ga. [.049"] x 1-5/8 I.D. x 2-1/4 O.D.	As req'd
8	414-02028-0	Bevel gear, 1-5/8 bore	1
9	140-02031-0	Special lock washer	1
10	140-01072-0	Special lock for bolt	1
11	303-01073-0	Hex cap screw, 1/2 — 13 NC x 1-1/4	1
12	416-02033-0	Gear box	1
13	331-02034-0	3/4 Pipe plug with vent	1
14	301-02036-0	Lock collar, 1-1/4 bore	2
15	301-02037-0	Ball bearing, 1-1/4 bore	2
16	414-02032-0	Bevel gear, 1-1/4 bore	1
17	413-01074-0	Gear box gasket	1
18	303-02395-0	Hex cap screw, 1/2 — 13 NC x 2	4
19	116-01075-0	Gear box cover	1
20	340-02362-0	Lock washer, spring type, 5/16	10
21	303-01214-0	Hex cap screw, 5/16 — 18 NC x 3/4	10
22	335-02035-0	Retaining ring	2
23	132-04156-0	Shaft, 1-1/4 dia.	1
24	119-03118-0	Square key, 5/16 x 5/16 x 1-1/4	2
25	119-03506-0	Square key, 5/16 x 5/16 x 2-1/2	1
26	323-01360-0	Expan pin, 1/4 dia. x 2	1
27	110-03507-0	Shaft coupler, 1-1/4 I.D. x 2 O.D. x 6 long	1

GEARBOX ASSEMBLY (continued)

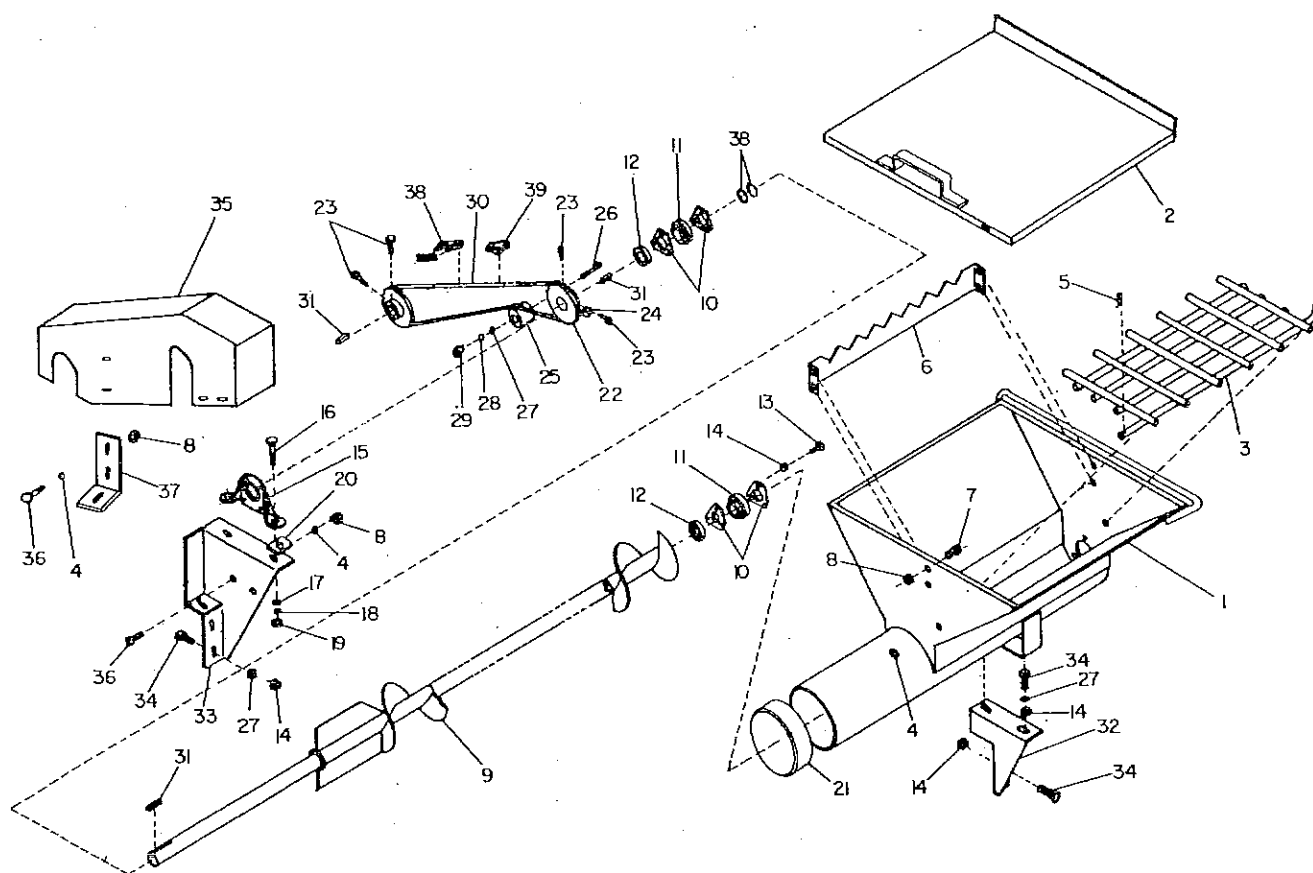
Key	Part Number	Description	Qty.
28	140-02088-0	Flat washer, 10 ga. [.134"] x 1-1/4 I.D. x 1-3/4 O.D.	As req'd
	140-02089-0	Flat washer, 12 ga. [.109"] x 1-1/4 I.D. x 1-3/4 O.D.	As req'd
	140-02090-0	Flat washer, 14 ga. [.083"] x 1-1/4 I.D. x 1-3/4 O.D.	As req'd
	140-02091-0	Flat washer, 16 ga. [.065"] x 1-1/4 I.D. x 1-3/4 O.D.	As req'd
	140-02092-0	Flat washer, 18 ga. [.049"] x 1-1/4 I.D. x 1-3/4 O.D.	As req'd
	140-02093-0	Flat washer, 20 ga. [.035"] x 1-1/4 I.D. x 1-3/4 O.D.	As req'd

DOUBLE DISCHARGE TUBE SACKER ATTACHMENT



Key	Part Number	Description	Qty.
1	106-04114-0	Band, 8" dia.	1
2	322-02937-0	Wing nut, 5/16 — 18 NC	1
3	303-03003-0	Hex cap screw, 5/16 — 18 NC x 1-1/4	1
4	242-04665-0	Two-way bagger housing	1
5	303-00590-0	Hex cap screw, 5/16 — 18 NC x 1	2
6	303-02292-0	Flat washer, 5/16	4
7	322-02567-0	Hex lock nut, 5/16 — 18 NC	2
8	221-03466-0	Bag lock, L.H.	1
9	221-03467-0	Bag lock, R.H.	1
	220-10803-0	Double discharge tube sacker attachment kit	

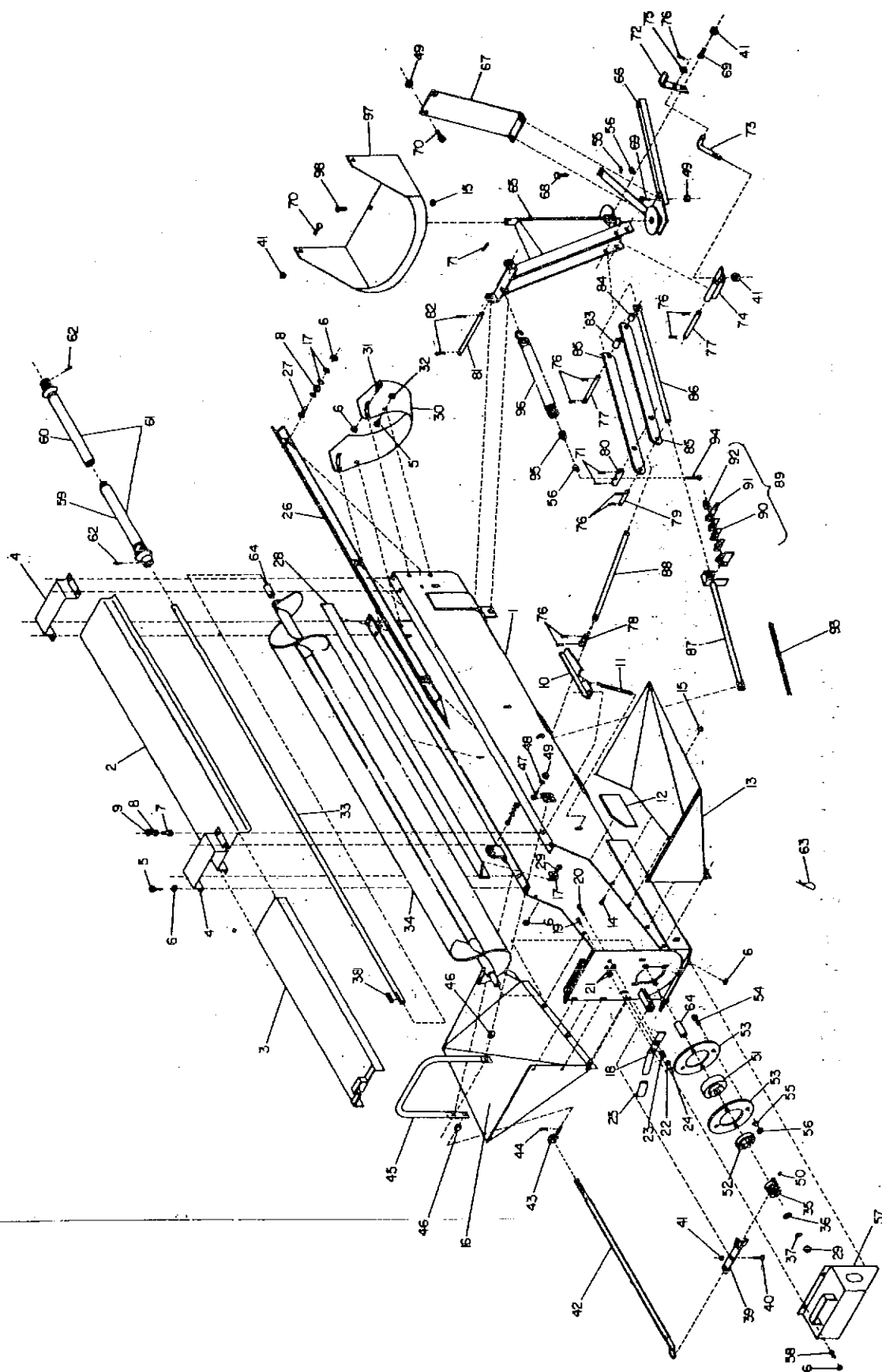
SUPPLEMENT HOPPER



SUPPLEMENT HOPPER

Key	Part Number	Description	Qty.
1	216-13132-0	Supplement hopper housing	1
2	212-13129-0	Hopper cover	1
3	242-13125-0	Grate	1
4	303-02292-0	Flat washer, 5/16	7
5	323-02121-0	Cotter pin, 3/32 dia. x 1	1
6	104-13131-0	Sack cutter	1
7	303-00688-0	Hex cap screw, 5/16 — 18 NC x 5/8	4
8	322-02019-0	Whiz lock nut with flange, 5/16 — 18 NC	10
9	245-13203-0	Auger	1
10	301-13209-0	3-Bolt triangular flangette	4
11	301-02023-0	Ball bearing, 1-1/8 bore, spherical dia.	2
12	301-02010-0	Lock collar, 1-1/8 bore	2
	301-10885-0	Ball bearing with collar, 1-1/8 bore [Items 11 and 12]	
13	303-02017-0	Carriage bolt, 3/8 — 16 NC x 1	6
14	322-02018-0	Whiz lock nut, 3/8 — 16 NC	12
15	301-02154-0	Pillow block bearing, steel, 1-1/8 bore	1
16	303-01811-0	Carriage bolt, 1/2 — 13 NC x 1-1/2	2
17	340-00520-0	Flat washer, 1/2	2
18	340-00537-0	Lock washer, 1/2	2
19	322-00536-0	Hex nut, 1/2 — 13 NC	2
20	136-03551-0	Spacer, 18 ga. [.049"]	As req'd
	136-11325-0	Spacer, 16 ga. [.065"]	As req'd
	136-11326-0	Spacer, 10 ga. [.134"]	As req'd
21	434-12471-0	Rubber band, .6"	1
22	137-02024-0	Sprocket, 40B28, 1-1/8 bore	1
23	303-03351-0	Square head set screw, 5/16 — 18 NC x 3/4	2
24	322-03350-0	Jam nut, 5/16 — 18 NC	2
25	342-02126-0	Wood block tightener	1
26	303-03354-0	Carriage bolt, 3/8 — 16 NC x 2-1/2	1
27	303-02119-0	Flat washer, 3/8	7
28	303-02118-0	Lock washer, spring type, 3/8	1
29	322-02726-0	Hex nut, 3/8 — 16 NC	1
30	408-14495-0	Roller chain, no. 40, 101 pitches including offset link and connector link	1
31	119-02125-0	Square key, 5/16 x 5/16 x 1	1
32	204-13211-0	Mounting bracket, hopper	1
33	204-14493-0	Mounting bracket, bearing	1
34	303-01226-0	Hex cap screw, 3/8 — 16 NC x 1	6
35	233-12114-0	Chain shield	1
36	303-00590-0	Hex cap screw, 5/16 — 18 NC x 1	6
37	139-14675-0	Shield Strap	1
38	308-01329-0	Connector link with spring clip, no. 40	
39	308-01328-0	Offset link, no. 40	
40	140-02065-0	Flat washer, 1-1/8 I.D. x 1-5/8 O.D. x 10 ga. [.134"]	As req'd

MECHANICAL AUGER FEEDER



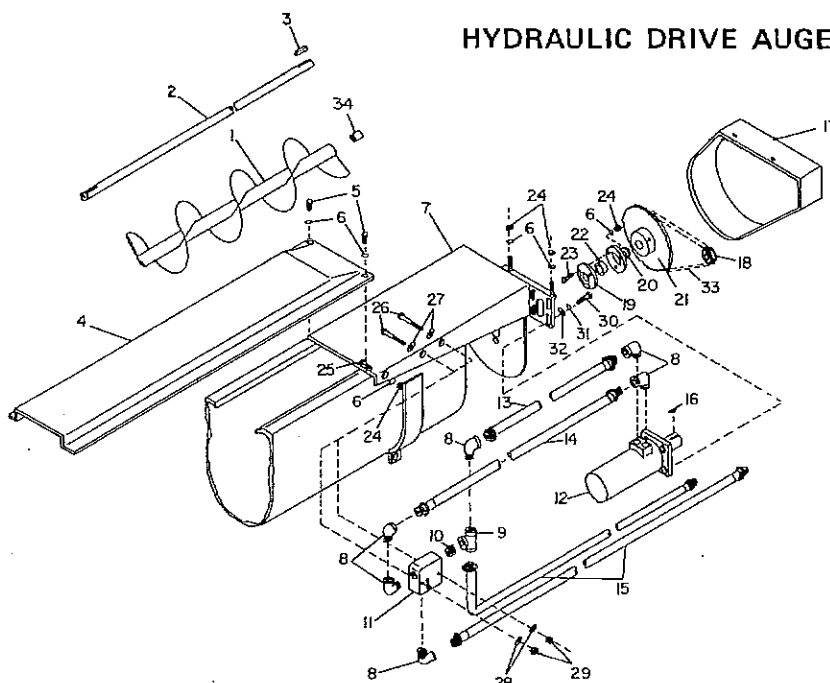
MECHANICAL AUGER FEEDER (continued)

Key	Part Number	Description	Qty.
1	216-12030-0	Auger feeder housing	1
2	133-10026-0	Safety shield	1
3	233-10029-0	Sliding safety shield	1
4	104-10025-0	Bracket	2
5	303-00688-0	Hex cap screw, 5/16 — 18 NC x 5/8	9
6	322-02019-0	Whiz lock nut, 5/16 — 18 NC	19
7	303-00590-0	Hex cap screw, 5/16 — 18 NC x 1	1
8	322-02363-0	Hex nut, 5/16 — 18 NC	4
9	322-02567-0	Lock nut, 5/16 — 18 NC	1
10	104-12025-0	Safety pivot	1
11	438-10075-0	Extension spring, 7/16 dia. x 5-3/4	1
12	113-12390-0	Rubber seal	1
13	233-12319-0	Folding hopper	1
14	303-02823-0	Truss head screw, 5/16 — 18 NC x 3/4	11
15	322-02019-0	Whiz lock nut, 5/16 — 18 NC	12
16	233-01515-0	Left side hopper bottom panel	1
17	303-02292-0	Flat washer, 5/16	19
18	109-04238-0	Release handle	1
19	303-03523-0	Truss head screw, 1/4 — 20 NC x 3/4	1
20	303-04406-0	Truss head screw, 1/4 — 20 NC x 1-1/2	1
21	322-02766-0	Hex nut, 1/4 — 20 NC	2
22	340-02326-0	Flat washer, 1/4	1
23	438-04239-0	Compression spring	1
24	322-04237-0	Hex lock nut, 1/4 — 20 NC	1
25	342-05015-0	Plastic grip	1
26	242-01505-0	Right side angle	1
27	303-04929-0	Carriage bolt, 5/16 — 18 NC x 1-1/2	3
28	142-02139-0	Left side angle	1
29	303-01214-0	Hex cap screw, 5/16 — 18 NC x 3/4	4
30	133-01506-0	Downspout	1
31	303-03332-0	Step carriage bolt, 5/16 — 18 NC x 3/4	2
32	322-02567-0	Lock nut, 5/16 — 18 NC	2
33	132-12023-0	Drive shaft	1
34	245-12020-0	Auger assembly for drag, 10" dia.	1
	245-12021-0	Drive sleeve in lower auger	
35	426-12192-0	Bottom clutch	1
36	303-12416-0	Flat washer, 3/8 I.D. x 1-3/4 O.D. x 12 ga. [.109"]	1
37	340-02362-0	Lock washer, spring type, 5/16	1
38	119-01463-0	Square key, 1/4 x 1/4 x 2	1
39	209-14502-0	Clutch fork	1
40	303-00669-0	Hex cap screw, 3/8 — 16 NC x 1-1/4	1
41	322-02305-0	Lock nut, 3/8 — 16 NC	4
42	229-12934-0	Linkage arm	1
43	203-01217-0	Eye bolt	1
44	319-02070-0	Cotter pin, 5/32 dia. x 1	1
45	109-03367-0	Shut off handle	1
46	136-03346-0	Spacer sleeve, 3/8 I.D. x 9/16 x O.D. x 9/32 long	2
47	303-02017-0	Carriage bolt, 3/8 — 16 NC x 1	1
48	303-02119-0	Flat washer, 3/8	6
49	322-02018-0	Whiz lock nut with flange, 3/8 — 16 NC	7
50	342-11559-0	Grease fitting, straight, 1/4 — 28 NF	1
51	301-12193-0	Ball bearing, 1-5/8 bore, spherical dia.	1
52	301-01394-0	Lock collar, eccentric, 1-5/8 bore	1
53	301-12195-0	4-Bolt flangette for 1-5/8 bore bearing	2
54	303-03108-0	Hex cap screw, 1/2 — 13 NC x 1	4
55	340-00537-0	Lock washer, 1/2	6
56	322-00536-0	Hex nut, 1/2 — 13 NC	7

MECHANICAL AUGER FEEDER (continued)

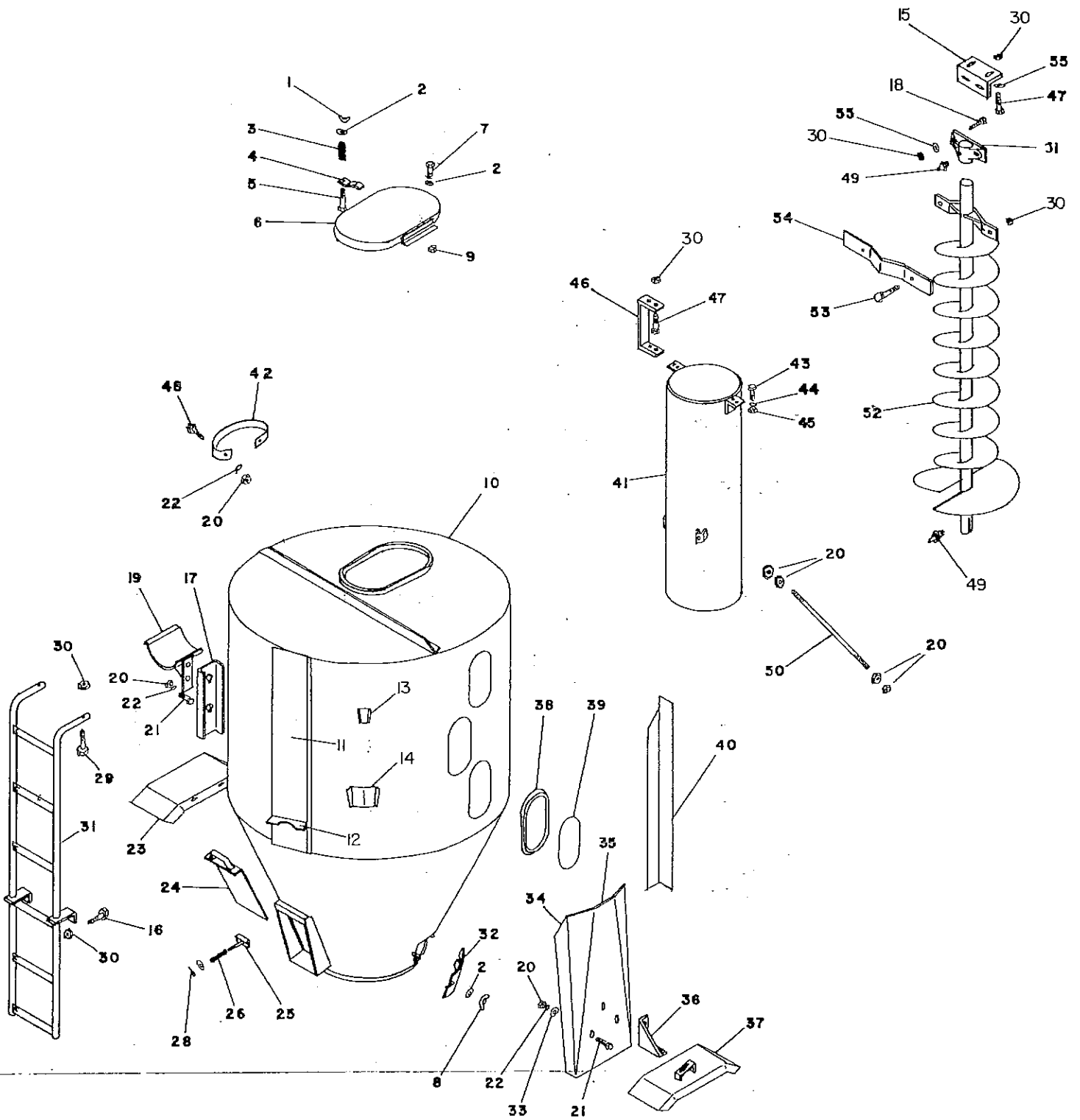
Key	Part Number	Description	Qty.
57	216-12197-0	Rear drag drive shield	1
58	303-03857-0	Truss head screw, 5/16 — 18 NC x 1/2	2
59	426-01502-0	Powershaft half, attaches to auger	
60	426-01501-0	Powershaft half, attaches to top drive unit	
61	426-01503-0	Complete powershaft for auger feeder	1
62	323-01401-0	Expan pin, 5/16 dia. x 1-5/8	2
63	323-03583-0	Hair pin, 3/16 dia. x 3	1
64	305-01316-0	Oilite bushing, 1" I.D. x 1-1/4 O.D. x 1-1/4 long	2
65	204-13109-0	Drag support swivel	1
66	204-13105-0	Bottom support	1
67	104-13115-0	Reinforcement strap	1
68	303-03047-0	Carriage bolt, 1/2 — 13 NC x 1-1/4	2
69	303-01226-0	Hex cap screw, 3/8 — 16 NC x 1	3
70	303-02242-0	Hex cap screw, 3/8 — 16 NC x 3/4	4
71	323-01360-0	Expan pin, 1/4 dia. x 2	4
72	112-14520-0	Brake handle	1
73	112-14518-0	Connecting rod	1
74	212-14521-0	Brake plate	1
75	303-02119-0	Flat washer, 3/8	1
76	319-02070-0	Cotter pin, 5/32 dia. x 1	9
77	121-13199-0	Pin, 1/2 dia. x 5-1/4	2
78	121-13198-0	Pin, 1/2 dia. x 3-3/4	1
79	121-13200-0	Pin, 1/2 dia. x 2-3/4	1
80	121-13197-0	Pin, 1" dia. x 3	1
81	129-01512-0	Pin, 3/4 dia. x 10	1
82	319-02663-0	Cotter pin, 5/32 dia. x 1-1/2	2
83	136-14523-0	Spacer sleeve, 1-1/2 long	1
84	136-14524-0	Spacer sleeve, 1-1/4 long	1
85	121-13195-0	Lower link	2
86	118-13194-0	Inside pipe	1
87	218-13192-0	Outside support pipe	1
88	121-13196-0	Vertical link	1
89	206-01414-0	Clamp for jack [with springs and washer]	1
90	340-01536-0	Clamping washer	3
91	240-03584-0	Clamping washer with hole for rope	1
92	338-01520-0	Spring for clamp	1
93	142-01899-0	Polypropylene rope, 3/16 dia. x 7'-6"	1
94	303-01380-0	Hex cap screw, 1/2 — 13 NC x 5" with 3-3/4" threads	1
95	144-11349-0	Spring nut casting	1
96	438-11347-0	Extension spring	1
97	216-13188-0	Hopper for mill	1
98	303-03529-0	Carriage bolt, 5/16 — 18 NC x 5/8	1

HYDRAULIC DRIVE AUGER FEEDER



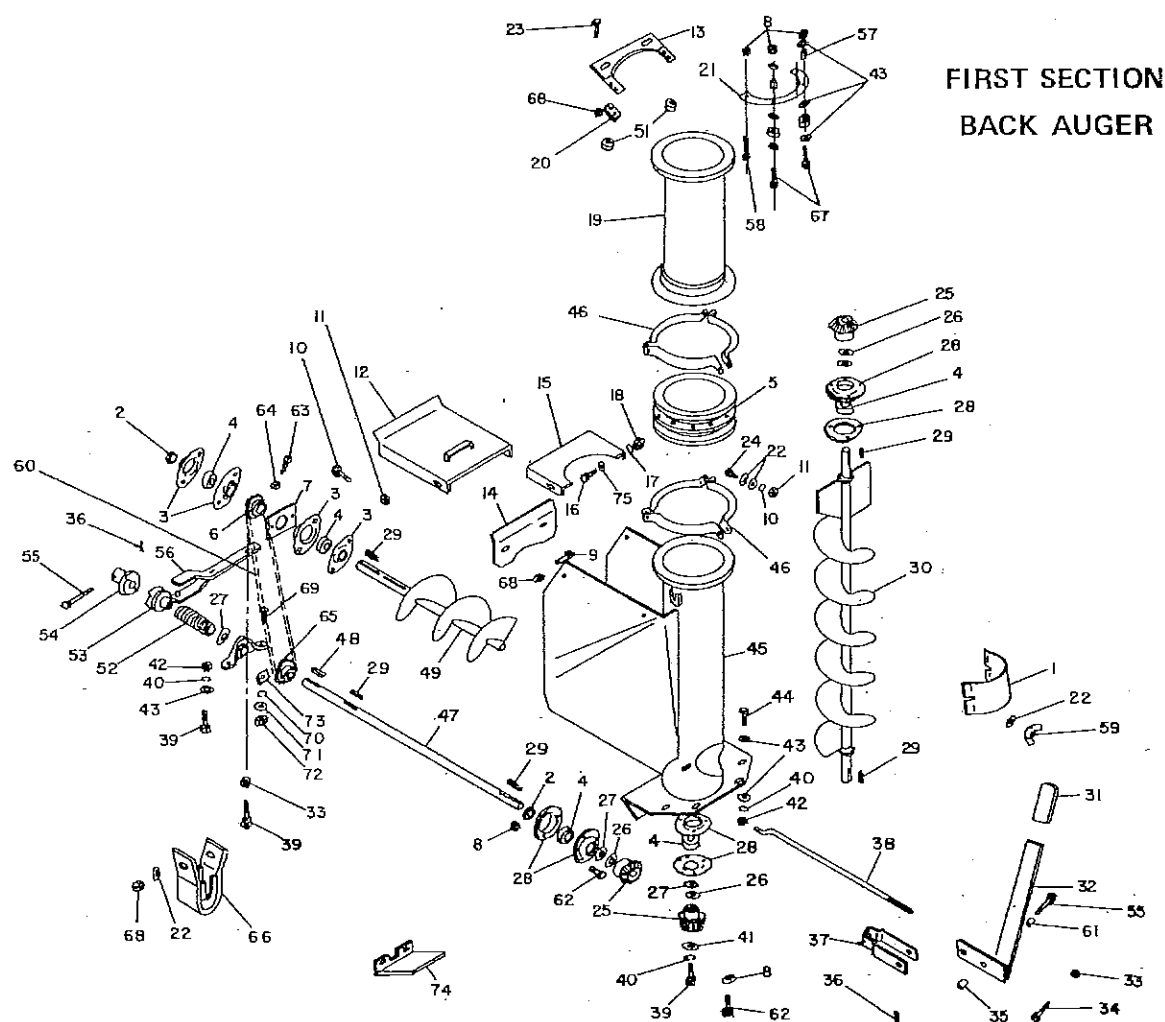
Key	Part Number	Description	Qty.
1	245-12020-0	Auger assembly for drag, 10" dia.	1
2	132-14792-0	Drive shaft, 1" dia. x 101-3/8	1
3	119-01153-0	Square key, 1/4 x 1/4 x 1-1/4	1
4	233-10643-0	Auger safety shield	1
5	303-03497-0	Sheet metal screw, hex head, 5/16 x 1/2	2
6	340-02362-0	Lock washer, 5/16	11
7	212-01429-0	Hydraulic auger top support	1
8	324-00624-0	90 Degree street elbow, 1/2 NPT	6
9	324-00632-0	Pipe tee, 1/2 NPT	1
10	324-00631-0	Close nipple, 1/2 NPT	1
11	317-00630-0	Hydraulic flow control, Brand No. FC - 51 - 1/2"	1
12	317-01428-0	Hydraulic motor, auger drag drive	1
13	417-04175-0	Hydraulic hose assembly, 1/2 I.D. x 11"	1
14	417-04174-0	Hydraulic hose assembly, 1/2 I.D. x 16"	1
15	417-01425-0	Hydraulic hose assembly, 1/2 I.D. x 144"	2
16	319-00618-0	Woodruff key, 1/4 x 1"	1
17	233-03594-0	Top drive shield	1
18	437-01081-0	Sprocket, 40B13, 1" bore	1
19	101-01233-0	Flangette, 3 hole for 1" bearing	2
20	301-01230-0	Lock collar, 1" bore	1
21	437-01421-0	Sprocket, 40B48, 1" bore	1
22	301-01231-0	Ball bearing, 1" bore, spherical dia.	1
23	303-01241-0	Carriage bolt, 5/16 - 18 NC x 3/4	3
24	322-02019-0	Hex nut, 5/16 - 18 NC	9
25	303-01214-0	Hex cap screw, 5/16 - 18 NC x 3/4	4
26	303-03156-0	Hex cap screw, 1/4 - 20 NC x 2-1/2	2
27	340-02326-0	Flat washer, 1/4	2
28	340-02944-0	Lock washer, 1/4	2
29	322-02766-0	Hex nut, 1/4 - 20 NC	2
30	303-02123-0	Hex cap screw, 3/8 - 16 NC x 3/4	4
31	303-02118-0	Lock washer, 3/8	4
32	303-02119-0	Flat washer, 3/8	4
33	40B-01426-0	Roller chain, No. 40, 72 pitches including offsets and connector link	1
	308-01329-0	Connector link with spring clip, No. 40	
	308-01328-0	Offset link, No. 40	
34	305-01316-0	Oilite bushing, 1" I.D. x 1-1/4 O.D. x 1-1/4 long	2

TANK AND MIXING AUGER



TANK AND MIXING AUGER

Key	Part Number	Description	Qty.
1	303-02203-0	Hex lock nut, 5/16 — 18 NC	2
2	303-02292-0	Flat washer, 5/16	8
3	438-01308-0	Compression spring, lid holder, 5/8 dia. x 1-7/8 long	2
4	104-02293-0	Lid locking bracket	2
5	303-02291-0	Hex cap screw, 5/16 — 18 NC x 2-1/4	2
6	233-03566-0	Hinged oval lid	1
7	303-01214-0	Hex cap screw, 5/16 — 18 NC x 3/4	2
8	322-00979-0	Wing nut, 5/16 — 18 NC	4
9	322-02019-0	Whiz lock nut w/flange, 5/16 — 18 NC	2
10	212-13139-0	Tank assembly	Not serviced
11	104-04605-0	Reinforcement channel, welds to tank	1
12	104-04603-0	Holding bracket for vertical extension, welds to tank	2
13	104-03926-0	Mounting bracket for horn or light, welds to tank	1
14	104-03667-0	Scale mounting bracket, welds to tank	1
15	104-03323-0	Hanger for brass cast bearing	1
16	322-02017-0	Carriage bolt, 3/8 — 16 NC x 1	2
17	104-03562-0	Tube holder support, welded to tank, right and left	2
18	303-01137-0	Hex cap screw, 3/8 — 16 NC x 1-1/2	2
19	204-04348-0	Unloading auger tube holder	1
20	322-00536-0	Hex nut, 1/2 — 13 NC	21
21	303-00539-0	Carriage bolt, 1/2 — 13 NC x 1	7
22	340-00537-0	Lock washer, spring type, 1/2	9
23	233-02147-0	Left fender	1
24	233-01112-0	Unloading/sliding door	1
25	233-01115-0	Sliding door holder	1
26	438-01113-0	Compression spring, door holder, 1/2 dia. x 2-3/8	1
27	340-02326-0	Flat washer, 1/4	2
28	323-02309-0	Cotter pin, 3/32 dia. x 3/4	1
29	303-01242-0	Carriage bolt, 3/8 — 16 NC x 1-1/2	2
30	322-02018-0	Whiz lock nut w/flange, 3/8 — 16 NC	14
31	215-01909-0	Ladder	1
32	133-03609-0	Clean out door	1
33	340-00520-0	Flat washer, 1/2	4
34	112-02145-0	Tank side brace, welded to tank and frame, left side	1
35	112-02146-0	Tank side brace, welded to tank and frame, right side	1
36	104-01521-0	Fender support	1
37	233-10464-0	Right fender	1
38	112-01202-0	Rubber window gasket	3
39	442-01205-0	Glass window	3
40	112-13166-0	Front tank brace, welded to tank and frame	1
41	216-13149-0	Mixing auger tube	1
42	112-03788-0	Screen rack	1
43	303-03202-0	Hex cap screw, 7/16 — 14 NC x 1-1/4	4
44	340-02399-0	Lock washer, spring type, 7/16	4
45	322-02377-0	Hex nut, 7/16 — 14 NC	4
46	104-01868-0	Mixing auger tuber hanger	2
47	303-00669-0	Hex cap screw, 3/8 — 16 NC x 1-1/4	6
48	303-01073-0	Hex cap screw, 1/2 — 13 NC x 1-1/4	2
49	342-01317-0	Grease fitting, straight, 1/8 NPT	2
50	103-12157-0	Rod, mixing auger tube support	3
51	101-03512-0	Brass cast bearing, 1-5/8 bore	1
52	245-03565-0	Mixing auger	1
53	303-03518-0	Carriage bolt, 3/8 — 16 NC x 1-1/4	2
54	104-03361-0	Mixing auger paddle	1
55	303-02119-0	Flat washer, 3/8	4

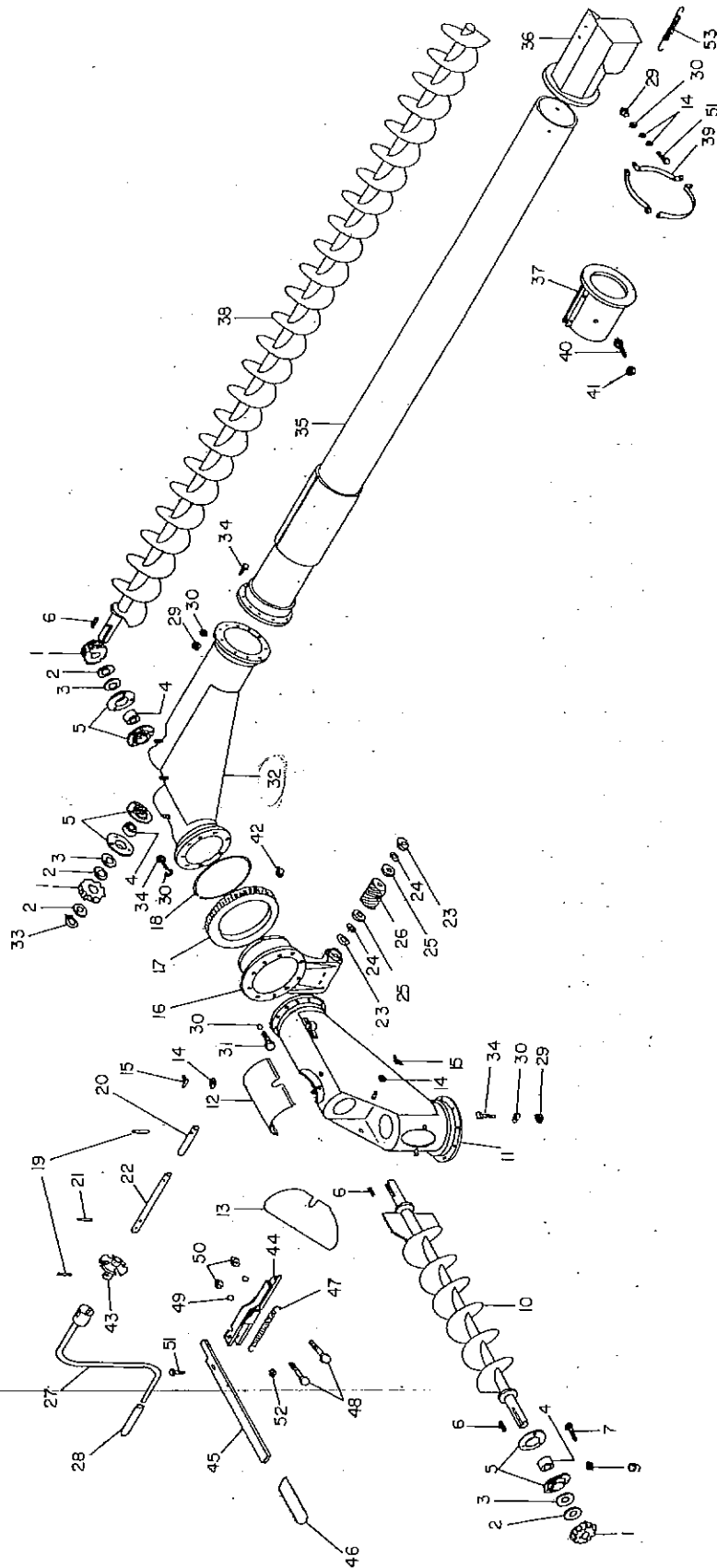


Key	Part Number	Description	Qty.
1	133-01252-0	Clean out door	1
2	301-02010-0	Collar only for 1-1/8 bore bearing	3
3	301-02161-0	2 Hole flangette for 1-1/8 bore bearing	4
4	301-02023-0	Bearing only, 1-1/8 bore	5
	301-10885-0	Ball bearing with collar, 1-1/8 bore [Items 2 and 4]	
5	216-12589-0	3" Spacer tube	1
6	137-02024-0	Sprocket, 40B28, 1-1/8 bore	1
7	136-02162-0	Bearing spacer plate	1
8	322-02018-0	Whiz lock nut with flange, 3/8 — 16 NC	18
9	303-01214-0	Hex cap screw, 5/16 — 18 NC x 3/4	4
10	340-02362-0	Lock washer, spring type, 5/16	6
11	322-02363-0	Hex nut, 5/16 — 18 NC	6
12	233-01237-0	Cover, unloading hopper	1
13	204-04602-0	Swivel ring bracket	1
14	113-04178-0	Steel gasket	1
15	113-04082-0	Feed deflector plate	1
16	303-02124-0	Truss head screw, 1/4 — 20 NC x 1/2	2
17	340-02944-0	Lock washer, spring type, 1/4	2
18	322-02766-0	Hex nut, 1/4 — 20 NC	2
19	216-13232-0	18" Vertical tube, 8" dia.	1
20	104-04613-0	Attaching bracket	2
21	104-04606-0	Swivel ring	1
22	303-02292-0	Flat washer, 5/16	22
23	303-01495-0	Carriage bolt, 5/16 — 18 NC x 3/4	8
24	303-03003-0	Hex cap screw, 5/16 — 18 NC x 1-1/4	6
25	114-02058-0	Bevel gear, 1-1/8 bore	3

FIRST SECTION BACK AUGER (continued)

Key	Part Number	Description	Qty.
26	140-02065-0	Flat washer, 1-1/8 I.D. x 1-5/8 O.D. x 10 ga. [.134"]	As req'd
27	140-02075-0	Flat washer, 1-1/8 I.D. x 1-5/8 O.D. x 12 ga. [.109"]	As req'd
28	101-01915-0	3 Hole flange for 1-1/8 bore bearing	6
29	119-02076-0	Square key, 5/16 x 5/16 x 1-1/8	5
30	245-04599-0	Vertical back auger, standard [21" vertical]	1
	245-04600-0	Vertical back auger, optional [45" vertical]	1
31	442-02156-0	Plastic grip for clutch handle	1
32	209-10521-0	Clutch handle	1
33	322-02306-0	Hex lock nut, 3/8 — 16 NC	2
34	303-03518-0	Carriage bolt, 3/8 — 16 NC x 1-1/4	1
35	136-14474-0	Spacer, 7/8 long	1
36	319-02070-0	Cotter pin, 5/32 dia. x 1	2
37	221-14471-0	Clutch yoke	1
38	129-14475-0	Clutch rod, 7/16 dia. x 26-1/2	1
39	303-01226-0	Hex cap screw, 3/8 — 16 NC x 1	2
40	303-02118-0	Lock washer, spring type, 3/8	15
41	140-01227-0	Flat washer, 3/8 I.D. x 1-3/4 O.D. x 10 ga. [.134"]	1
42	322-02726-0	Hex nut, 3/8 — 16 NC	14
43	303-02119-0	Flat washer, 3/8	20
44	303-00669-0	Hex cap screw, 3/8 — 16 NC x 1-1/4	4
45	216-04179-0	First section discharge unit	1
46	206-03441-0	Swivel clamp ring, 3 piece with hardware	2
	106-03441-1	Clamp ring, 1 section only	
47	132-04180-0	Shaft, 1-1/8 dia. x 31	1
48	119-02157-0	Square key, 5/16 x 5/16 x 3-1/2	1
49	245-04181-0	Hopper push auger	1
50	301-02154-0	Bearing, steel pillow block, 1-1/8 bore	1
51	301-01375-0	Ball bearing, cylindrical dia., 1/2 bore	4
52	438-02127-0	Clutch spring	1
53	126-03266-0	Clutch casting, driven	1
54	126-04155-0	Clutch casting, driver with 3/8 hole	1
55	323-04154-0	Clevis pin, 3/8 dia. x 2-3/8	2
56	209-03553-0	Clutch arm	1
57	305-03838-0	Spacer sleeve, 3/8 I.D. x 1/2 O.D. x 5/16 long	4
58	303-01226-0	Hex cap screw, 3/8 — 16 NC x 1	4
59	322-00979-0	Wing nut, 5/16 — 18 NC	2
60	408-14476-0	Roller chain, no. 2040, 27 pitches including offset link and connector link	1
	308-01338-0	Offset link, no. 2040	
	308-01339-0	Connector link with spring clip, no. 2040	
61	136-14473-0	Spacer, 1/2 long	1
62	303-02017-0	Carriage bolt, 3/8 — 16 NC x 1	10
63	303-03351-0	Square head set screw, 5/16 — 18 NC x 3/4	2
64	322-03350-0	Jam nut, 5/16 — 18 NC	2
65	137-03414-0	Sprocket, 40B18, 1-1/8 bore	1
66	233-12183-0	Chain shield	1
67	303-01137-0	Hex cap screw, 3/8 — 16 NC x 1-1/2	4
68	322-02019-0	Whiz lock nut with flange, 5/16 — 18 NC	8
69	303-01811-0	Carriage bolt, 1/2 — 13 NC x 1-1/2	2
70	340-00520-0	Flat washer, 1/2	2
71	340-00537-0	Lock washer, spring type, 1/2	2
72	322-00536-0	Hex nut, 1/2 — 13 NC	2
73	136-03551-0	Spacer, 18 ga. [.048]	As req'd
	136-11325-0	Spacer, 16 ga. [.065]	As req'd
	136-11326-0	Spacer, 10 ga. [.134]	As req'd
74	133-12182-0	Gear shield	1
75	340-02326-0	Flat washer, 1/4	2
	220-14747-0	Swivel Clamp with brkts., hdw., brgs.	
		[Items 8, 13, 20, 21, 23, 43, 57, 58, 67]	

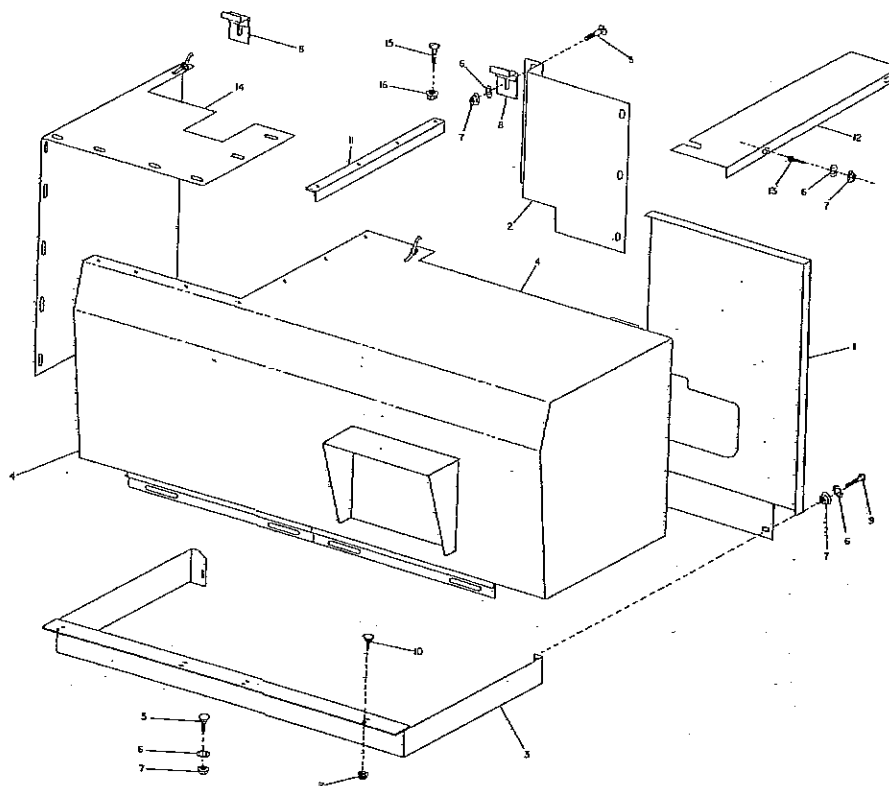
DISCHARGE AUGER TOP UNIT



DISCHARGE AUGER TOP UNIT

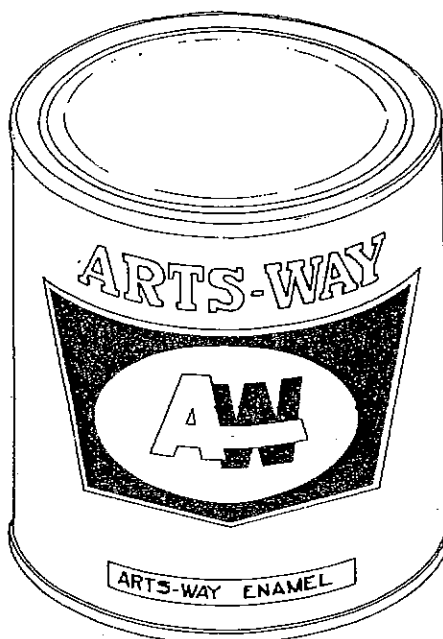
Key	Part Number	Description	Qty.
1	114-02058-0	Bevel gear, 1-1/8 bore	3
2	140-02065-0	Flat washer, 1-1/8 I.D. x 1-5/8 O.D. x 10 ga. [.134"]	As req'd
3	140-02075-0	Flat washer, 1-1/8 I.D. x 1-5/8 O.D. x 12 ga. [.109"]	As req'd
4	301-02023-0	Bearing only, 1-1/8 bore	3
5	101-01915-0	3-Hole flange for 1-1/8 bore bearing	6
6	119-02076-0	Square key, 5/16 x 5/16 x 1-1/8	3
7	303-02017-0	Carriage bolt, 3/8 — 16 NC x 1	9
8			
9	322-02018-0	Whiz lock nut with flange, 3/8 — 16 NC	9
10	245-04085-0	Cross auger, 7" dia.	1
11	216-13286-0	Discharge tube elbow, 10 holes, heavy	1
12	133-01252-0	Clean out door	4
13	133-04087-0	Bevel gear shield	2
14	303-02292-0	Flat washer, 5/16	22
15	322-00979-0	Wing nut, 5/16 — 18 NC	12
16	216-13298-0	Holder assembly, 10 holes	1
17	414-12623-0	Ring gear, 10 holes	1
18	435-10436-0	Snap ring	2
19	323-01255-0	Expan pin, 1/4 dia. x 1-1/4	2
20	136-14541-0	Sleeve	1
21	323-01256-0	Expan pin, 3/16 dia. x 1	1
22	132-10516-0	Shaft, worm drive	1
23	301-10437-0	Ball bearing, cylindrical O.D., 5/8 bore	2
24	340-14543-0	Thrust washer, 1/2 I.D. x 7/8 O.D. x 18 ga. [.049"]	2
25	301-04293-0	Thrust bearing, 1/2" bore	2
26	414-10069-0	Worm gear, 1/2" bore	1
27	209-01250-0	Crank	1
28	442-02064-0	Plastic grip for crank, 5/8 bore	1
29	322-02363-0	Hex nut, 5/16 — 18 NC	23
30	340-02362-0	Lock washer, spring type, 5/16	43
31	303-00688-0	Hex cap screw, 5/16 — 18 NC x 5/8	10
32	216-13287-0	Discharge tube elbow, 10 holes, light	1
33	335-03520-0	Snap ring, 1-1/8 external	1
34	303-01214-0	Hex cap screw, 5/16 — 18 NC x 3/4	30
35	216-14456-0	Discharge tube, 10 holes, 91" long- 158570	1
36	216-14430-0	Swivel unloading auger hood	1
37	216-14453-0	Clamp-on swivel mount	1
38	245-04095-0	Auger, 7" dia., 106-1/2" shaft length	1
39	206-03441-0	Swivel clamp ring, 3 piece with hardware	1
	106-03441-0	Clamp ring, 1 section only	
40	303-01634-0	Truss head screw, 5/16 — 18 NC x 3/4	2
41	322-02019-0	Whiz lock nut with flange, 5/16 — 18 NC	2
42	342-11559-0	Grease fitting, straight, 1/4 — 28 NF	2
43	236-14542-0	Sleeve and wheel	1
44	204-11142-0	Catch bracket	1
45	109-11146-0	Catch lever	1
46	342-05015-0	Plastic grip for lever	1
47	438-01165-0	Extension spring, 1/2 dia. x 5" long	1
48	303-00669-0	Hex cap screw, 3/8 — 16 NC x 1-1/4	2
49	340-02118-0	Lock washer, spring type, 3/8	2
50	322-02726-0	Hex nut, 3/8 — 16 NC	2
51	303-03003-0	Hex cap screw, 5/16 — 18 NC x 1-1/4	4
52	322-02567-0	Hex lock nut, 5/16 — 18 NC	1
53	438-10075-0	Extension spring	1

SHIELDS



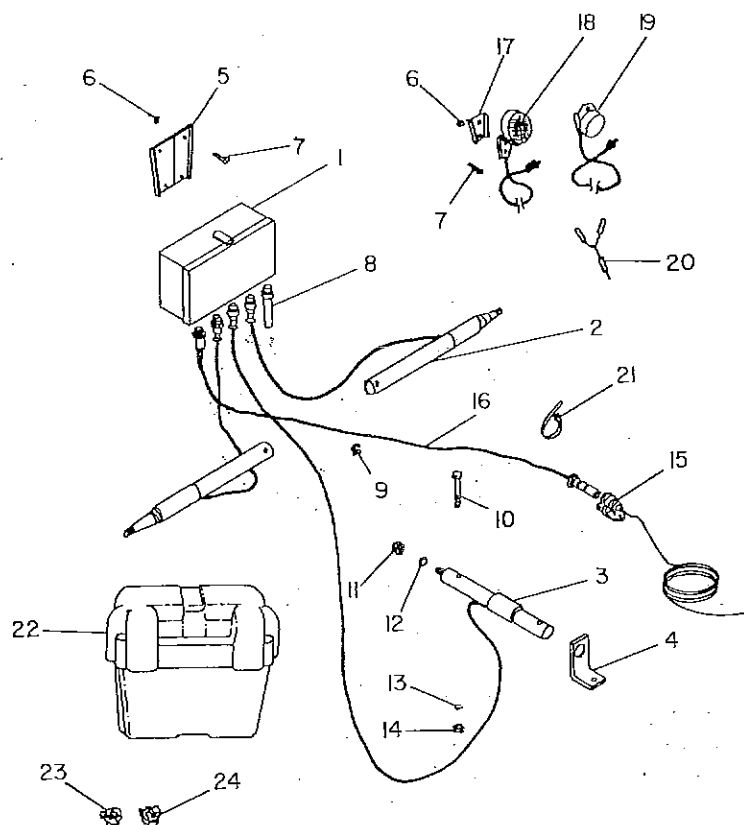
Key	Part Number	Description	Qty.
1	233-14556-0	Back panel for main drive shaft	1
2	133-14557-0	Rear shield section	1
3	204-13159-0	Shield base	1
4	233-14554-0	Main drive shield	1
5	303-01495-0	Carriage bolt, 5/16 — 18 NC x 3/4	4
6	303-02292-0	Flat washer, 5/16	17
7	322-02019-0	Whiz lock nut with flange, 5/16 — 18 NC	16
8	204-02194-0	Top latch for main drive shield	2
9	303-01214-0	Hex cap screw, 5/16 — 18 NC x 3/4	6
10	303-03332-0	Special carriage bolt, 5/16 — 18 NC x 3/4	4
11	112-14560-0	Top shield angle	1
12	133-14561-0	Jackshaft shield	1
13	303-00590-0	Hex cap screw, 5/16 — 18 NC x 1	2
14	233-14533-0	End cover panel — for units with auger drag feed	1
	233-14534-0	End cover panel — for units with roll feed only	1
	233-14535-0	End cover panel — for units without drag, roll feed, or bale feeder	1
	233-14531-0	End cover panel — for units with bale feeder	1
15	303-02124-0	Truss head screw, 1/4 — 20 NC x 1/2	12
16	322-02327-0	Whiz lock nut with flange, 1/4 — 20 NC	12

PAINT, DECALS AND MISCELLANEOUS



Key	Part Number	Description	Qty.
1	442-04312-0	A-W Green, spray can	
	442-04316-0	A-W Yellow, spray can	
2	442-02199-0	A-W Green, quart can	
	442-02200-0	A-W Yellow, quart can	
	442-02201-0	A-W Green, gallon can	
	442-02202-0	A-W Yellow, gallon can	
3	442-00684-0	A-W Super Lube gun grease	
4	242-14562-0	Complete set of decals for Model 450 Grinder-Mixer [Includes items 5 thru 26] not shown	
5	447-11537-0	Decal, Important — Hitch Height Info.	1
6	447-11538-0	Decal, Caution — Keep Shields in Place	1
7	447-11543-0	Decal, Caution — Read Operator's Manual	2
8	447-11777-0	Decal, Danger — Stay Off Machine	1
9	447-14563-0	Decal, Caution — Always Shut Off Tractor	1
10	447-04927-0	Decal, Caution — Do Not Open Cover	3
11	447-14602-0	Decal, Important — 1,000 RPM PTO [for 1,000 rpm units only]	1
12	447-12117-0	Decal, Important — 540 RPM PTO [for 540 rpm units only]	1
13	442-14564-0	Decal, Important — Remove End Bearing	1
14	447-14527-0	Decal, 450 Logo	1
15	442-04326-1	Decal, Large A-W Logo	2
16	442-04328-1	Decal, ARTS-WAY	2
17	442-02054-0	Decal, Set of 3 numbered windows	1
18	442-02117-0	Decal, Supplement Hopper	1
19	447-03531-0	Decal, A-W Logo, Small	1
20	447-04162-0	Decal, Electronic Scale Bracket	1
21	447-14503-0	Decal, Tank Weight and Measure Guide	1
22	447-12116-0	Red Reflector	2
23	447-14603-0	Decal, Disengage/Engage Roll Feed and Auger Drag	2
24	447-14604-0	Decal, Disengage/Engage Auger Drag	1
25	447-14605-0	Decal, Disengage/Engage Unloading Auger	1
26	447-14667-0	Decal, Grease Symbol	1
27	447-11772-0	Anti-slip tape, 2" wide x 20" [used on fender under screen holder]	2

ELECTRONIC SCALE AND RELATED ACCESSORIES

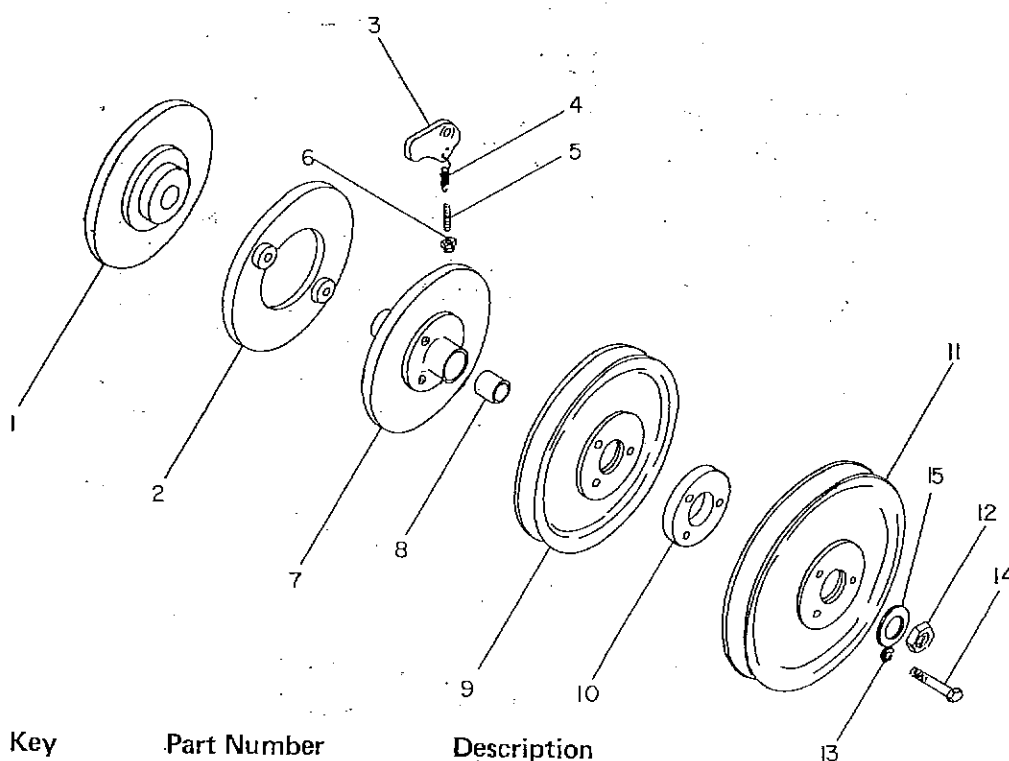


Key	Part Number	Description	Qty.
1	426-04056-0	Indicator unit, analog, 15,000 lb. x 2	
	426-04057-0	Indicator unit, analog, 30,000 lb. x 4	
	446-11184-0	Indicator unit, digital, 10,000 lb. x 2	
	446-11185-0	Indicator unit, digital, 25,000 lb. x 5	
2	446-04058-0	Axle weigh bar, 10' cord	2
3	446-13225-0	Hitch weigh bar, 12' cord	1
4	121-03674-0	Hitch clevis	1
5	104-03667-0	Bracket for mounting indicator unit	1
6	322-02327-0	Whiz lock nut with flange, 1/4 - 20 NC	
7	303-02124-0	Truss head screw, 1/4 - 20 NC x 1/2	
8	446-03676-0	Adaptor	1
9	438-03689-0	Wire clip	
10	303-99096-0	Hex cap screw, 3/4 - 10 NC x 4-1/2	1
11	322-14731-0	Hex nut, 1" - 8 NC	1
12	340-00335-0	Lock washer, spring type, 1"	1
13	340-03680-0	Lock washer, spring type, 3/4"	1
14	322-03675-0	Hex nut, 3/4 - 10 NC	1
15	446-03678-0	Female connector, tractor plug with 10' cord	
16	446-11187-0	Power cord, analog, 23' cord	
	447-14706-0	Power cord, digital, 23' cord	
17	104-03926-0	Bracket for mounting horn or light	
18	220-04064-0	Warning light, analog with 10' cord	
	220-11190-0	Warning light, digital with 10' cord	
19	220-11180-0	Warning horn, analog with 10' cord	
	220-11188-0	Warning horn, digital with 10' cord	
20	342-13121-0	Dual adaptor for horn and light, analog	
21	442-14745-0	Plastic tie, 1/8 wide and 6" long	
22	346-03969-0	Battery box with box, lid, and strap	
23	342-13544-0	Positive battery clamp	

ELECTRONIC SCALE AND RELATED ACCESSORIES (continued)

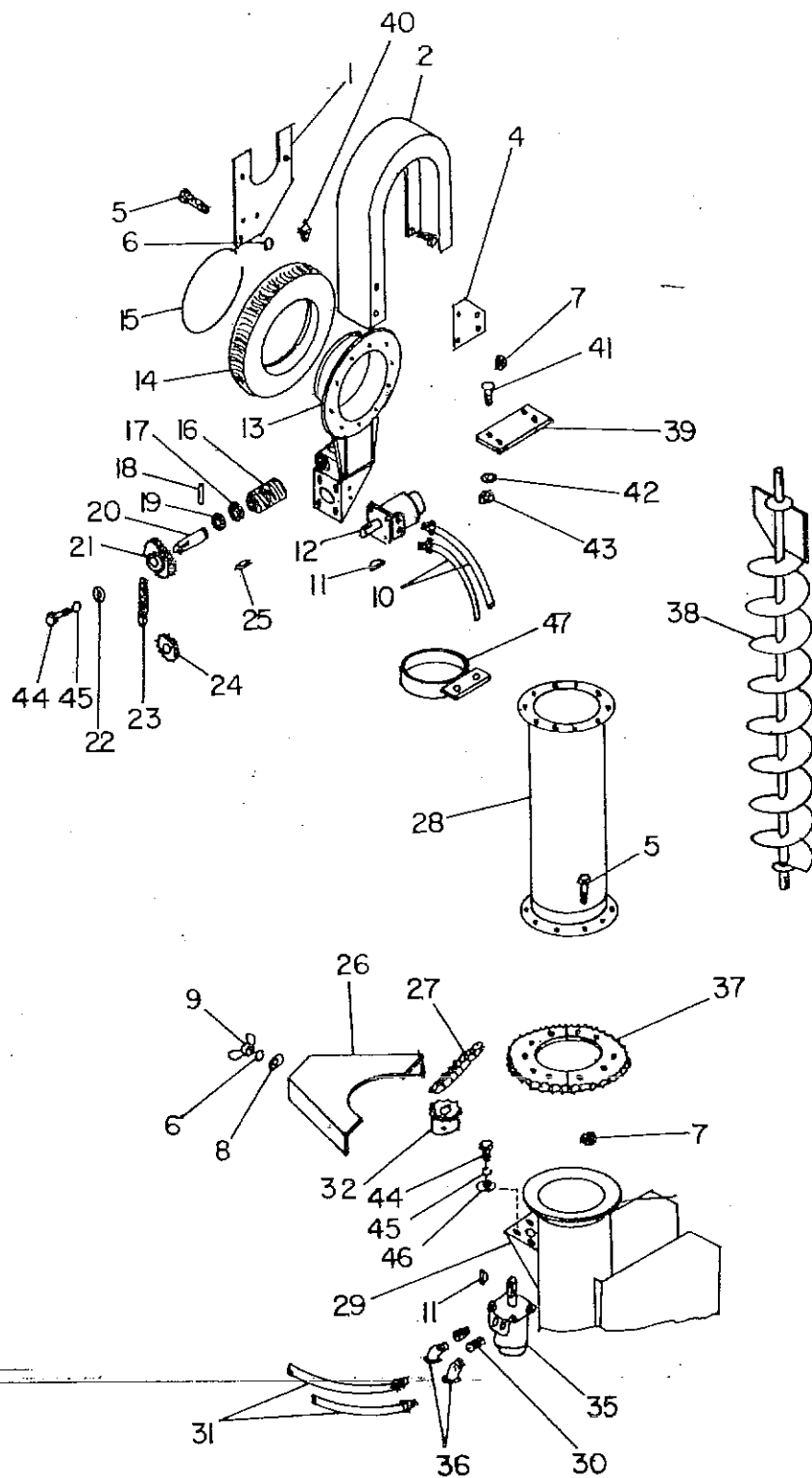
Key	Part Number	Description	Qty.
24	342-13545-0	Negative battery clamp	
	220-13543-0	Battery box kit includes items 22, 23 & 24	
	099-13583-0	Operator's Manual for Model 500 analog scale	
	099-13586-0	Operator's Manual for Model 400 digital scale	
	220-13220-0	Scale Kit, 15K analog	
	220-13221-0	Scale Kit, 30K analog	
	220-13222-0	Scale Kit, 10K digital	
	220-14696-0	Scale Kit, 25K digital	

GOVERNOR UNIT



Key	Part Number	Description	Qty.
1	426-01703-0	Driven plate	1
2	426-01704-0	Pressure drive plate	1
3	426-01707-0	Governor weight	2
4	426-01706-0	Extension spring	2
5	103-01705-0	Cap screw with 1/8 dia. hole, 1/4 — 20 NC x 2	2
6	322-03755-0	Lock nut, 1/4 — 20 NC	2
7	426-01708-0	Drive plate	1
8	305-01316-0	Oilite bushing, 1" I.D. x 1-1/4 O.D. x 1-1/4 long	2
9	427-01709-0	Pulley, 9" dia.	1
10	436-01710-0	Pulley spacer	1
11	427-01711-0	Pulley, 10" dia.	1
12	322-01713-0	Jam nut, 1" — 14 NF	1
13	340-02362-0	Lock washer, spring type, 5/16	3
14	303-01712-0	Hex cap screw, 5/16 — 18 NC x 2	3
15	140-01323-0	Flat washer, 1" I.D. x 1-1/2 O.D. x 10 ga. [.134"]	3
	220-01700-1	Complete governor unit for field installation	

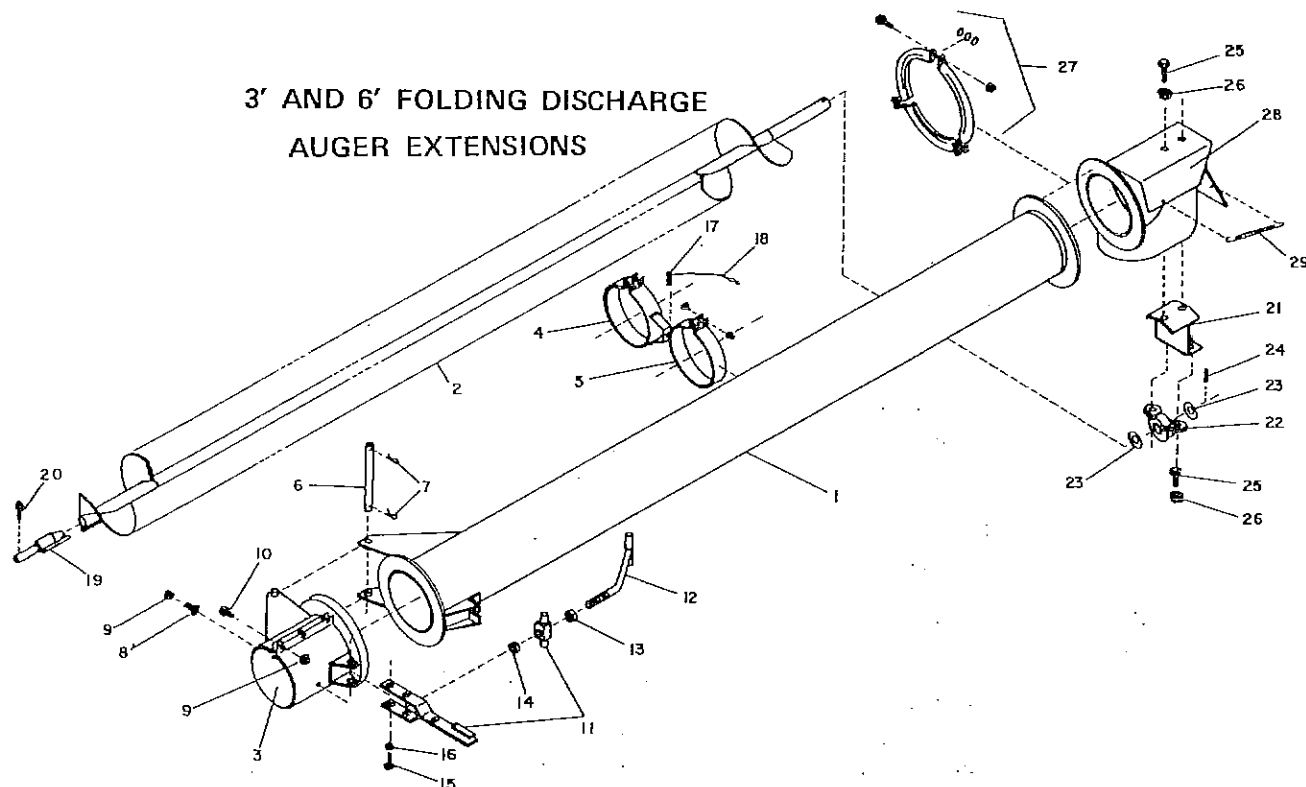
HYDRAULIC BACK AUGER AND VERTICAL EXTENSIONS



HYDRAULIC BACK AUGER AND VERTICAL EXTENSIONS

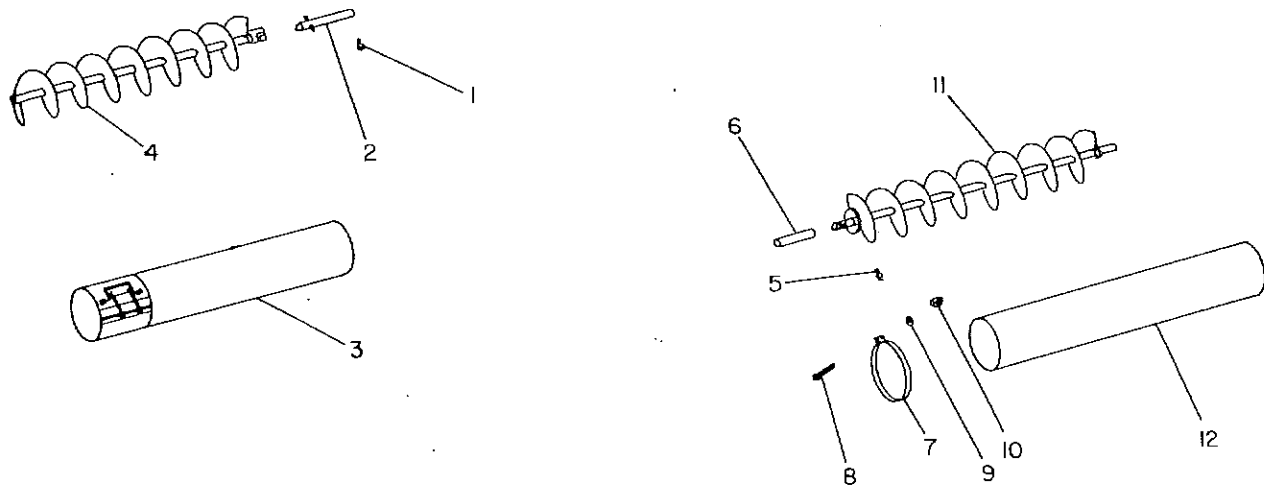
Key	Part Number	Description	Qty.
1	133-04323-0	Lower shield	1
2	233-04322-0	Main shield for ring and worm gear	1
4	104-04324-0	Mounting bracket for shield	1
5	303-01214-0	Hex cap screw, 5/16 — 18 NC x 3/4	28
6	340-02362-0	Lock washer, spring type, 5/16	8
7	322-02019-0	Whiz lock nut with flange	28
9	322-00979-0	Wing nut, 5/16 — 18 NC	1
10	417-04596-0	Hydraulic hose assembly, 1/2 I.D. x 25'	2
11	319-00618-0	Woodruff key, 1/4 x 1	2
12	317-01428-0	Hydraulic motor, auger raise	1
13	216-13385-0	Hydraulic ring and worm gear holder	1
14	116-14545-0	Ring gear with 10 holes	1
15	435-10436-0	Snap ring	2
16	414-11267-0	Worm gear	1
17	301-04327-0	Thrust bearing, 1" bore	2
18	323-02239-0	Expan pin, 1/4 dia. x 1-5/8	1
19	301-01432-0	Ball bearing, 1" bore, cylindrical dia.	2
20	132-04328-0	Shaft, 1" dia. x 9	1
21	437-00663-0	Sprocket, 40B18, 1" bore	1
22	140-04326-0	Flat washer, 3/8 I.D. x 1-13/16 O.D. x 10 ga. [.134"]	1
23	408-00685-0	Roller chain, no. 40, 38 pitches with connector link	1
	308-01329-0	Connector link with spring clip, no. 40	
24	437-01494-0	Sprocket, 40B13, 1" bore	1
25	119-01150-0	Square key, 1/4 x 1/4 x 1-1/2	1
26	133-03275-0	Swivel motor shield	1
27	408-03278-0	Roller chain, no. 40, 86 pitches with connector link	1
28	216-12626-0	Extension tube, 10 hole, 24"	1
29	204-04608-0	Motor mount, welds to back hopper	1
30	124-00646-0	Restrictor	2
31	417-04609-0	Hydraulic hose assembly, 1/2 I.D. x 20'	2
32	237-03277-0	Special sprocket, 40B8, 1" bore	1
35	317-11109-0	Hydraulic motor, auger swing	1
36	124-11439-0	Special 90 degree elbow, 1/2 NPT	2
37	437-13348-0	Split sprocket, 40A80, pair	1
38	245-04600-0	Vertical back auger for 45" vertical	1
39	133-11307-0	Oil plate	1
40	342-11559-0	Grease fitting, straight, 1/4 — 28 NF	2
41	303-03523-0	Truss head screw, 1/4 — 20 NC x 3/4	4
42	340-02944-0	Lock washer, 1/4	4
43	322-02766-0	Hex nut, 1/4 — 20 NC	4
44	303-01226-0	Hex cap screw, 3/8 — 16 NC x 1	2
45	303-02118-0	Lock washer, spring type, 3/8	2
46	303-02119-0	Flat washer, 3/8	1
47	204-04601-0	Hose ring bracket	1
48	104-04612-0	Hose keeper, welds to frame, not shown	4

3' AND 6' FOLDING DISCHARGE AUGER EXTENSIONS



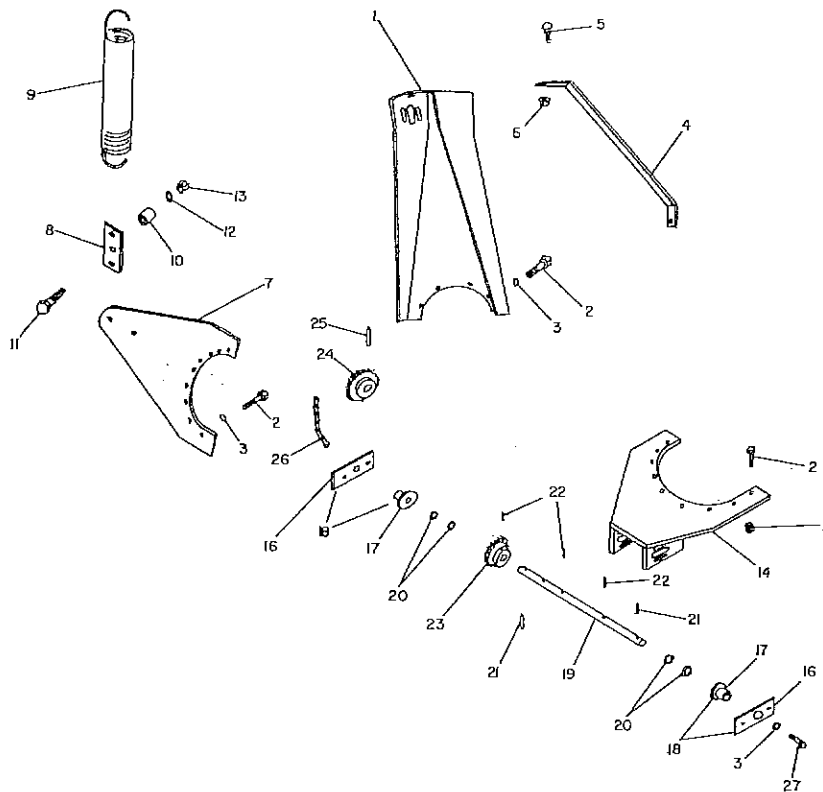
Key	Part Number	Description	Qty.
1	216-13428-0	3 Ft. extension tube	1
	216-13454-0	6 Ft. extension tube	1
2	245-13430-0	3 Ft. extension auger	1
	245-13449-0	6 Ft. extension auger	1
3	204-13425-1	Clamp-on pivot with decals	1
	447-14465-0	Decal — auger engagement	2
4	204-13424-0	Clamp band with strap	1
5	204-13429-0	Clamp band with pin	1
6	123-14464-0	Pivot pin, 1/2 dia. x 8-1/2	1
7	319-03436-0	Cotter pin, 1/8 dia. x 1	2
8	303-01634-0	Truss head screw, 5/16 — 18 NC x 1/2	2
9	322-02567-0	Whiz lock nut with flange, 5/16 — 18 NC	9
10	303-01214-0	Hex head cap screw, 5/16 — 18 NC x 3/4	7
11	221-12783-0	Locking handle with pivot	1
12	221-14427-0	T-bar handle	1
13	322-00536-0	Hex nut, 1/2 — 13 NC	1
14	322-12789-0	Hex lock nut, 1/2 — 13 NC	1
15	303-01241-0	Carriage bolt, 5/16 — 18 NC x 3/4	2
16	322-02567-0	Hex lock nut, 5/16 — 18 NC	2
17	323-03583-0	Hair pin, 3/16 dia. x 3	1
18	408-14370-0	Chain, 8" long	1
19	232-13427-0	Pilot drive shaft	1
20	303-00878-0	Square head set screw, 7/16 — 14 NC x 3/4	1
21	204-13432-0	Bearing hanger	1
22	301-13431-0	Wood pillow block bearing, 1-1/8 bore	1
23	140-02065-0	Flat washer, 1-1/8 I.D. x 1-5/8 O.D. x 10 ga. [.134"]	4
24	323-01360-0	Expan pin, 1/4 dia. x 2	1
25	303-00517-0	Hex cap screw, 3/8 — 16 NC x 3/4	4
26	322-02018-0	Whiz lock nut with flange, 3/8 — 16 NC	4
27	206-03441-0	Swivel clamp ring, 3 piece with hardware	1
28	216-14430-0	Swivel unloading auger hood	1
29	438-10075-0	Extension spring	1
	220-13404-0	3 Foot folding discharge auger extension kit for Model 450 [Items 27, 28, 29 not included]	
	220-13405-0	6 Foot folding discharge auger extension kit for Model 450 [Items 27, 28, 29 not included]	

QUICK-TACH AND BOLT-ON AUGER EXTENSIONS



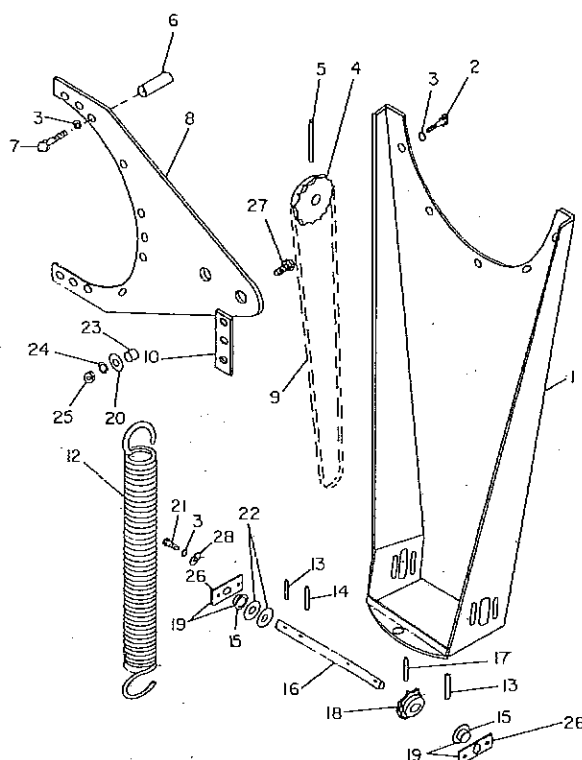
Key	Part Number	Description	Qty.
1	303-00878-0	Square head set screw, 7/16 — 14 NC x 3/4	1
2	232-02220-0	Auger plug with pin	1
	323-01360-0	Expan pin, 1/4 dia. x 2	1
3	216-11393-0	3' Extension tube, Q-T, 8" dia.	1
	216-11334-0	5' Extension tube, Q-T, 8" dia.	1
4	245-11386-0	3' Extension auger, Q-T, 7" dia.	1
	245-02219-0	5' Extension auger, Q-T, 7" dia.	1
	220-11392-0	3' Quick-tach auger extension, complete	
	220-11333-0	5' Quick-tach auger extension, complete	
5	303-00878-0	Square head set screw, 7/16 — 14 NC x 3/4	2
6	132-04113-0	Shaft, 1-1/8 dia. x 8	1
7	106-04114-0	Band, 8" dia.	1
8	303-00669-0	Hex cap screw, 3/8 — 16 NC x 1-1/4	1
9	340-02118-0	Lock washer, spring type, 3/8	1
10	322-02726-0	Hex nut, 3/8 — 16 NC	1
11	245-04109-0	3' Extension auger, bolt-on, 7" dia.	1
	245-04110-0	4' Extension auger, bolt-on, 7" dia.	1
	245-04111-0	5' Extension auger, bolt-on, 7" dia.	1
	245-04112-0	6' Extension auger, bolt-on, 7" dia.	1
12	116-04104-0	3' Extension tube, bolt-on, 8" dia.	1
	116-04105-0	4' Extension tube, bolt-on, 8" dia.	1
	116-04106-0	5' Extension tube, bolt-on, 8" dia.	1
	116-04107-0	6' Extension tube, bolt-on, 8" dia.	1
	220-14748-0	3' Bolt-on auger extension complete, 8" tube	
	220-14749-0	4' Bolt-on auger extension complete, 8" tube	
	220-14750-0	5' Bolt-on auger extension complete, 8" tube	
	220-14751-0	6' Bolt-on auger extension complete, 8" tube	

E-Z LIFT ASSIST FOR MECHANICAL 21"



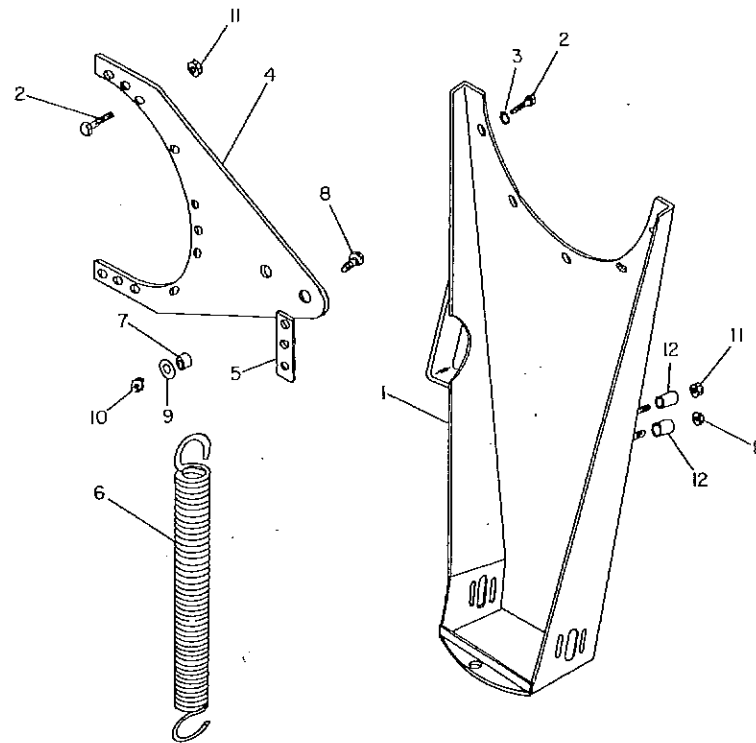
Key	Part Number	Description	Qty.
1	215-11357-0	Vertical arm for mechanical back auger	1
2	303-00590-0	Hex cap screw, 5/16 — 18 NC x 1	17
3	340-02362-0	Lock washer, spring type, 5/16	15
4	104-14596-0	Tower brace	1
5	303-02242-0	Hex cap screw, 3/8 — 16 NC x 3/4	1
6	322-02018-0	Whiz lock nut with flange, 3/8 — 16 NC	1
7	115-11356-0	Lift lever	1
8	104-14558-0	Spring lug	1
9	438-14559-0	Extension spring, 2-3/4 dia. x 19 long	1
10	436-03346-0	Spacer sleeve, 3/8 I.D. x 9/16 O.D. x 9/32 long	1
11	303-00669-0	Hex cap screw, 3/8 — 16 NC x 1-1/4	1
12	303-02119-0	Flat washer, 3/8	1
13	322-02306-0	Hex lock nut, 3/8 — 16 NC	1
14	215-14591-0	Crank pivot	1
15	322-02019-0	Whiz lock nut with flange, 5/16 — 18 NC	6
16	104-11403-0	Adjustment plate	2
17	301-11354-0	Flanged oilite bushing, 5/8 I.D. x 3/4 O.D. x 1/2 long	2
18	204-11406-0	Adjustment plate with bushing item 17	
19	132-14594-0	Shaft	1
20	340-03519-0	Thrust washer, 5/8 I.D. x 1" O.D. x 14 ga. [.083"]	4
21	323-01255-0	Expan pin, 1/4 dia. x 1-1/4	2
22	323-01256-0	Expan pin, 3/16 dia. x 1	3
23	437-11352-0	Sprocket, 4089, 5/8 bore	1
24	437-11353-0	Sprocket, 40B18, 5/8 bore	1
25	323-11673-0	Expan pin, 1/4 dia. x 2-3/4	1
26	408-14597-0	Roller chain, no. 40, 84 pitches including connector link	1
	308-01329-0	Connector link with spring clip, no. 40	
27	303-01214-0	Hex cap screw, 5/16 — 18 NC x 3/4	4
	220-14595-0	E-Z Lift Assist Kit for 21" mechanical back auger	

E-Z LIFT ASSIST FOR MECHANICAL 45"



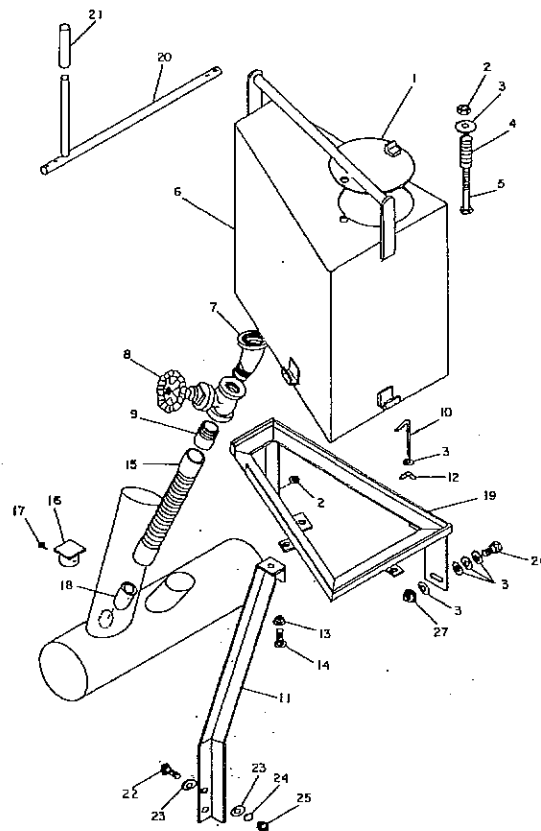
Key	Part Number	Description	Qty.
1	115-11357-0	Vertical arm for mechanical back auger	1
2	303-00590-0	Hex cap-screw, 5/16 - 18 NC x 1	10
3	340-02362-0	Lock washer, 5/16	9
4	437-11353-0	Sprocket, 40B18, 5/8 bore	1
5	323-11673-0	Expan pin, 1/4 dia. x 2-3/4	1
6	136-11351-0	Spacer pipe	5
7	303-11679-0	Hex cap screw, 5/16 - 18NC x 2-1/4	1
8	115-11356-0	Lift lever	1
9	408-11358-0	Roller chain, no. 40, 92 pitches including connector link	1
	308-01329-0	Connector link with spring clip, no. 40.	
10	104-14558-0	Spring lug	1
11	303-02292-0	Flat washer, 5/16	4
12	438-14559-0	Extension spring, 2-3/4 dia. x 19 long	1
13	323-01255-0	Expan pin, 1/4 dia. x 1-1/4	2
14	323-01256-0	Expan pin, 3/16 dia. x 1	1
15	301-11354-0	Flanged oilite bushing, 5/8 I.D. x 3/4 O.D. x 1/2 long	2
16	132-11355-0	Shaft	1
17	323-99110-0	Expan pin, 3/16 dia. x 1-1/4	1
18	437-11352-0	Sprocket, 40B9, 5/8 bore	1
19	204-11406-0	Adjustment plate with bushing, items 15 and 26	
20	303-02119-0	Flat washer, 3/8	1
21	303-01214-0	Hex cap screw, 5/16 - 18 NC x 3/4	4
22	340-03519-0	Thrust washer, 5/8 I.D. x 1" O.D. x 14 ga. [.083"]	2
23	436-03346-0	Spacer sleeve, 3/8 I.D. x 9/16 O.D. x 9/32 long	1
24	303-02118-0	Lock washer, spring type, 3/8	1
25	322-02726-0	Hex nut, 3/8 - 16 NC	1
26	104-11403-0	Adjustment plate	2
27	303-01226-0	Hex cap screw, 3/8 - 16NC x 1	1
28	303-02292-0	Flat washer, 5/16	4
	220-11346-0	E-Z Lift Assist Kit for 45" mechanical back auger	

E-Z LIFT FOR ASSIST FOR HYDRAULIC 21" AND 45"



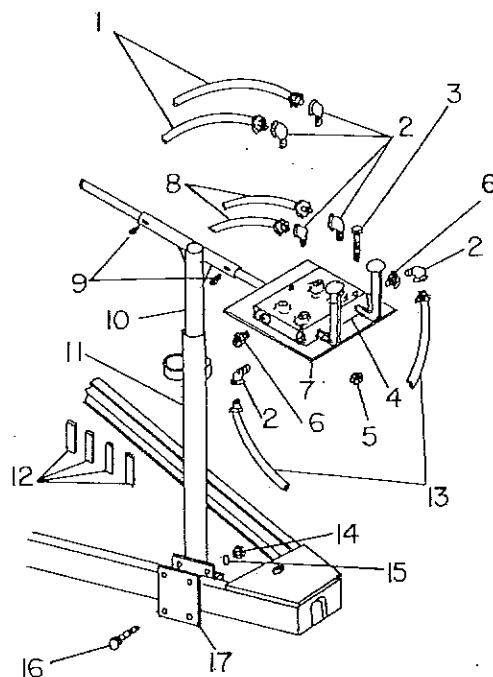
Key	Part Number	Description	Qty.
1	220-14753-0	Vertical arm for hydraulic back auger	1
2	303-00590-0	Hex cap screw, 5/16 — 18 NC x 1	11
3	340-02362-0	Lock washer, spring type, 5/16	6
4	115-11356-0	Lift lever	1
5	104-14558-0	Spring lug	1
6	438-14559-0	Extension spring, 2-3/4 dia. x 19 long	1
7	436-03346-0	Spacer sleeve, 3/8 I.D. x 9/16 O.D. x 9/32 long	1
8	303-00669-0	Hex cap screw, 3/8 — 16 NC x 1-1/4	1
9	303-02119-0	Flat washer, 3/8	1
10	322-02306-0	Hex lock nut, 3/8 — 16 NC	1
11	322-02019-0	Whiz lock nut with flange, 5/16 — 18 NC	5
12	136-13697-0	Spacer	2
	220-14744-0	E-Z Lift Assist Kit for 21" and 45" hydraulic back auger	

MOLASSES ATTACHMENT



Key	Part Number	Description	Qty.
1	242-00596-0	Tank cover	1
2	322-02567-0	Hex lock nut, 5/16 — 18 NC	2
3	303-02292-0	Flat washer, 5/16	7
4	438-01308-0	Compression spring	1
5	303-02291-0	Hex cap screw, 5/16 — 18 NC x 2-1/4	1
6	216-14833-0	Tank	1
7	324-14839-0	Street elbow, 45 degree, 1-1/2 NPT	1
8	324-00598-0	Gate valve, brass, 1-1/2 NPT	1
9	124-00600-0	Coupler, 1-1/2 pipe x 2-1/2	1
10	104-00604-0	Hook bolt	2
11	112-14838-0	Reinforcement angle [frame to support]	1
12	322-00979-0	Wing nut, 5/16 — 18 NC	2
13	322-02018-0	Whiz lock nut with flange, 3/8 — 16 NC	1
14	303-02017-0	Carriage bolt, 3/8 — 16 NC x 1	1
15	342-00601-0	Flexible hose	1
16	224-00602-0	Cap	1
17	303-24231-0	Sheet metal screw, No. 8 x 1/2	1
18	124-14841-0	Pipe sleeve [welds to tube], 1-1/2 pipe x 3	1
19	212-14830-0	Frame support for tank	1
20	209-14828-0	Clutch rod [special for molasses attachment]	1
21	442-12579-0	Plastic grip	1
22	303-01073-0	Hex cap screw, 1/2 — 13 NC x 1-1/4	2
23	340-00520-0	Flat washer, 1/2	4
24	340-00537-0	Lock washer, 1/2	2
25	322-00536-0	Hex nut, 1/2 — 13 NC	2
26	303-00590-0	Hex cap screw, 5/16 — 18 NC x 1	1
27	322-02019-0	Whiz lock nut with flange, 5/16 — 18 NC	1
	220-14840-0	Molasses attachment kit for model 450	

HYDRAULIC VALVE CONTROL FOR BACK AUGER HYDRAULICS



Key	Part Number	Description	Qty.
1	417-04596-0	Hydraulic hose assembly, 1/2 I.D. x 25' [not part of kit]	
2	324-00624-0	90 Degree street elbow, 1/2 NPT	6
3	303-99113-0	Hex cap screw, 5/16 — 18 NC x 2	3
4	417-11992-0	2 Spool control valve	1
5	322-02019-0	Whiz lock nut with flange, 5/16 — 18 NC	3
6	324-00742-0	Pipe reducer, 3/4 NPT male x 1/2 NPT female	2
7	204-04611-0	Control pad	1
8	417-04609-0	Hydraulic hose assembly, 1/2 I.D. x 20' [not part of kit]	
9	303-00878-0	Square head set screw, 7/16 — 14 NC x 3/4	4
10	212-04616-0	Inner adjusting pipe	1
11	212-03078-0	Control post	1
12	104-04612-0	Hose keeper, welds to frame [not part of kit]	
13	417-00574-0	Hydraulic hose assembly, 1/2 I.D. x 5'	2
14	322-00536-0	Hex nut, 1/2 — 13 NC	4
15	340-00537-0	Lock washer, spring type, 1/2	4
16	303-01477-0	Hex cap screw, 1/2 — 13 NC x 1-1/2	4
17	104-03079-0	Clamp for control post	1
	700-14568-1	Hydraulic valve control for hydraulic back auger kit	

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