

H&S PARTS BOOK

S3137 SPREADER



Revision #00
Starting Ser. #616625

Part #72562
HSMFG1215

P.O. BOX 768, MARSHFIELD, WI 54449
(715) 387-3414 FAX (715) 384-5463
www.hsmfgco.com

CONTENTS

Instructions for Ordering Parts - About Improvements	1
Figure 1 - Beater and Pan Assembly.....	2-3
Figure 2 - Hub,Spindle and Box Parts.....	4-5
Figure 3 - Front Sheild and Drive Assembly.....	6-9
Figure 4 - Back Shield and Drive Assembly.....	10-13
Figure 5 - Hydraulic Endgate.....	14-15
Figure 6 - Apron Chain Assembly.....	16-17
Figure 7 - Optional Hydraulic Drive Assembly.....	18-19
Figure 8 - Worm Gearbox Assembly.....	20-21
Figure 9 - Bevel Gearbox	22-23
Figure 10 - Hydraulic Cylinder.....	24
Figure 11 - PTO.....	25
Figure 12 - Optional Second Beater	26-27
Figure 13 - Optional Electric Control for Hydraulic Drive.....	28-29
Parts Notes	30

INSTRUCTIONS FOR ORDERING PARTS

All service parts should be ordered through your authorized H&S dealer. They will be able to give you faster service if you will provide them with the following

1. Model & Serial number is located in the front center of the Manure Spreader.
2. All reference to left or right apply to the Manure Spreader as viewed from the rear.
3. Parts should not be ordered from illustration only. Please order by complete part number.
4. If your dealer has to order parts - give shipping instructions:

VIA truck - large pieces (please specify local truck lines)

VIA United Parcel Service (include full address)

H&S MFG. CO. INC.	
MARSHFIELD, WIS.	
MOD. NO.	
SER. NO.	
DESCR.	

PLEASE RECORD NUMBERS FOR YOUR UNIT FOR QUICK REFERENCE

ABOUT IMPROVEMENTS

H&S IS CONTINUALLY STRIVING TO IMPROVE IT'S PRODUCTS

We must therefore, reserve the right to make improvements or changes whenever it becomes practical to do so without incurring any obligation to make changes or additions to the equipment previously sold.

FIGURE 1
BEATER & PAN ASSEMBLY

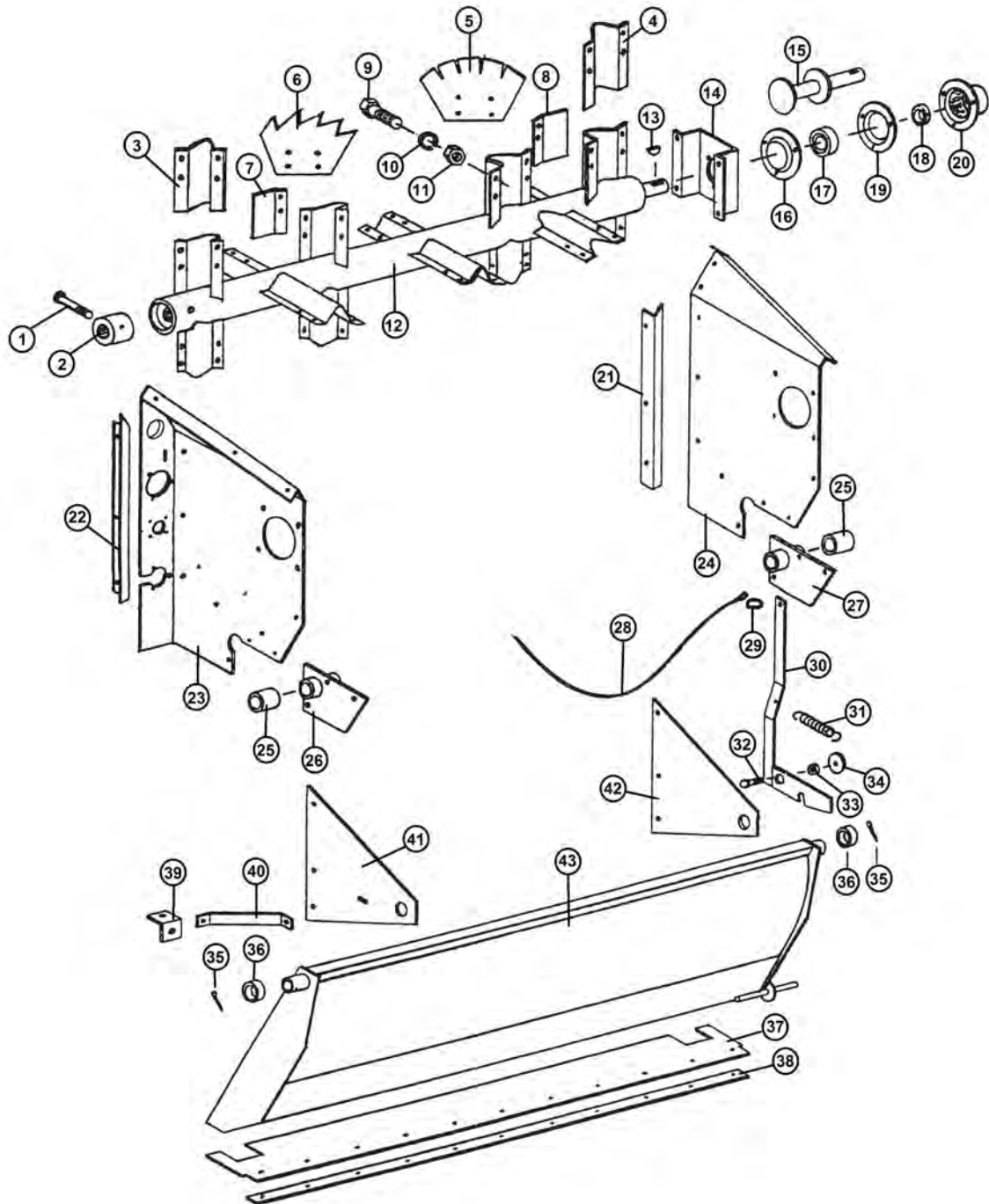


FIGURE 1

BEATER & PAN ASSEMBLY

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	YBHH10130	BOLT, 5/16" X 5" GR. 5
2	23N2	SPLINED BEATER INSERT
3	23N3	BEATER BLADE HOLDER LH
4	23N4	BEATER BLADE HOLDER RH
5	23N276	BEATER BLADE - HARDENED
6	23N277	BEATER BLADE - HARDENED
7	23N7	BEATER BLADE WIPER LH
8	23N8	BEATER BLADE WIPER RH
9	YBHH16045	BOLT, 1/2" X 1-1/4" GR. 5
10	YWLO16005	WASHER, LOCK, 1/2"
11	YNTL16005	HEX NUT, TOP LOCK, 1/2"-13
12	23N9	BEATER
13	5B9	3/8" X 1-1/4" WOODRUFF KEY
14	23N10	BEATER SHAFT SUPPORT
15	23N11	BEATER STUB SHAFT
16	F116	BEARING FLANGE (HEAVY DUTY)
17	12N122	BEARING W/LOCK COLLAR ASSEMBLY
18	12N122	BEARING W/LOCK COLLAR ASSEMBLY
19	F114A	BEARING FLANGE W/ ZERK 450
20	23N12	BEARING FLANGE GUARD
21	37N1	RH SIDE POLY HOLD DOWN
22	37N2	LH SIDE POLY HOLD DOWN
23	37N50	LH MAIN PANEL
24	37N4	RH MAIN PANEL
25	23N17	DRIVE SHAFT BUSHING
26	37N78	DRIVE SHAFT BRACKET LH WITH BUSHING
27	23N19	DRIVE SHAFT BRACKET RH WITH BUSHING
28	37N5	PAN TRIP ROPE
29	R31	CLIP
30	23N21	PAN TRIP LEVER
31	R27	SPRING
32	YBCR16010	CARR. BOLT, 1/2" X 1-1/2" GR. 5
33	23N23	TRIP LEVER SPACER
34	YWFL16005	WASHER, FLAT, 1/2" USS
35	YPCT06020	COTTER PIN, 3/16" X 2"
36	F112	SPACER
37	23N24	PAN RUBBER FLAP
38	23N25	PAN STRAP
39	23N26	PAN BRACE ANGLE
40	23N27	PAN SUPPORT BRACE
41	23N28	LH PAN SUPPORT
42	23N29	RH PAN SUPPORT
43	23N30	PAN

FIGURE 2
HUB, SPINDLE & BOX PARTS

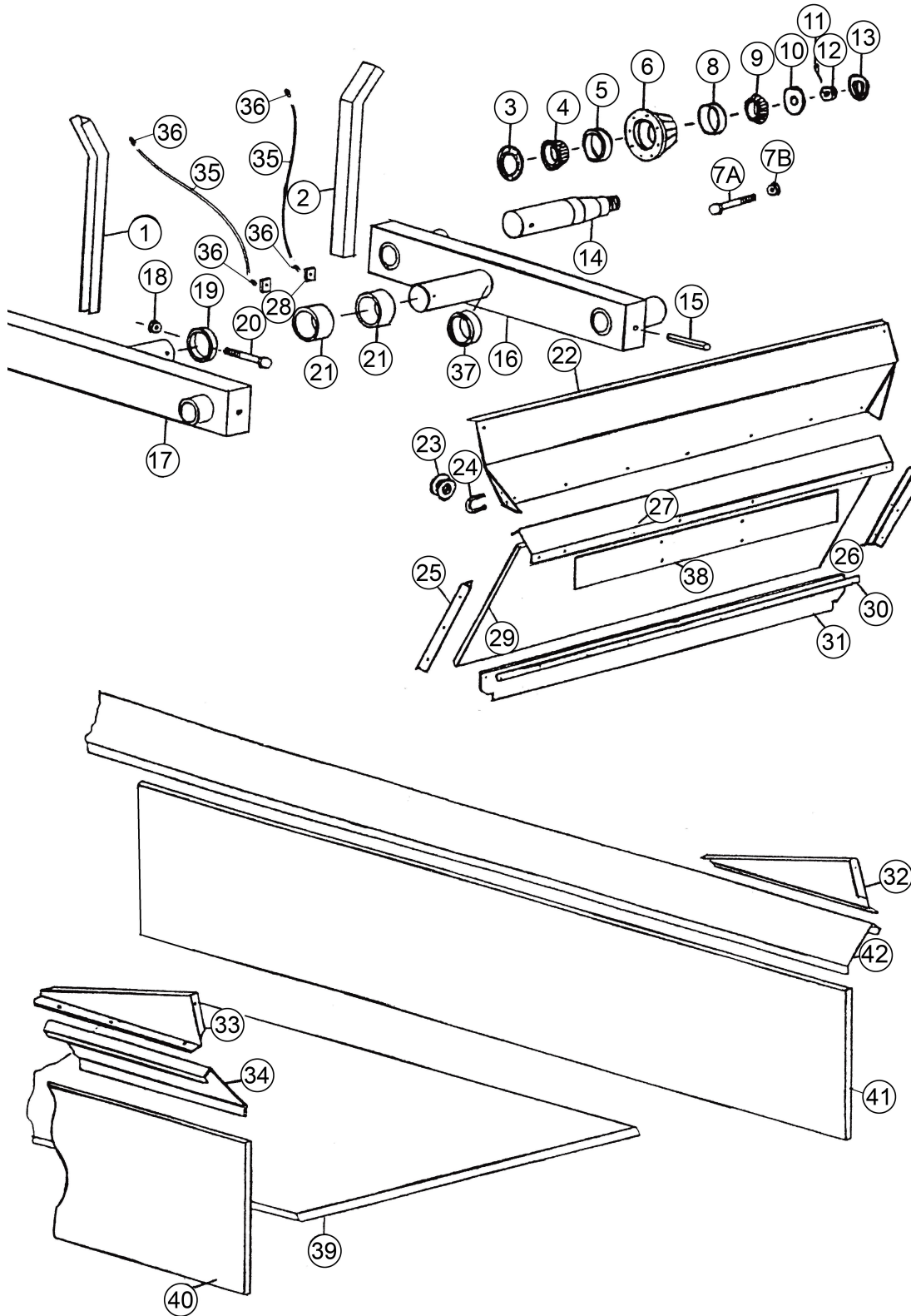


FIGURE 2

HUB, SPINDLE AND BOX PARTS

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	37N6	ASSY, RH SIDE STAKE
2	37N7	ASSY, LH SIDE STAKE
3	B90	GREASE SEAL 260
4	B91	BEARING, INNER
5	B91A	RACE, INNER 260
6	26G4A	HUB ASSEMBLY
7A	YBSD20005	STUD BOLT 5/8-18 UNF X 2 1/4
7B	YNWL20005	WHEEL NUT, 5/8"-18 UNF
8	B94A	OUTER RACE
9	B94	OUTER BEARING
10	YWFL28010	WASHER, FLAT, SAE 7/8 IN
11	YPCT05020	COTTER PIN, 5/32 X 1-3/4
12	YNSL28005	HEX NUT, SLOTTED, 7/8-14
13	B2	HUB CAP
14	37N8	SPINDLE FOR 8 X 20 WHEEL
*	16SV203	SPINDLE 2-1/2 X 18-1/2 FOR 821 HUB
15	YPEX16020	EXPANSION PIN, 1/2" X 4"
16	37N85	LH AXLE
17	37N84	RH AXLE
18	YNTL16005	HEX NUT, TOP LOCK, 1/2-13
19	37N86	RING
20	YBHH16150	BOLT, 1/2"-13 X 4-3/4" GR 5
21	B58	BUSHING
22	23N34	FRONT FLARE
23	F33	SIDE CABLE GUIDE
24	YBPU08005	PIPE U BOLT, 1/4 X 3/4
25	37N12	PLYWOOD ANGLE RH
26	37N13	PLYWOOD ANGLE LH
27	23N176	FRONT END BRACE
28	16V9	GREASE ZERK BRACKET
29	37N65	POLY PLYWOOD, FRONT GATE, 7 PLY - 5/8" X 26-1/2" X 59-3/4"
30	23N40	STRAP FOR RUBBER
31	23N41	FRONT GATE RUBBER
32	23N42	SPLASH GUARD LEFT
33	23N43	SPLASH GUARD RIGHT
34	37N16	SIDE FLARE RH
38	31N43	GREASE LINE
39	37N81	SOLID POLY FLOOR - 370-430
40	37N67	BONDED POLY/PLYWOOD SIDE (RH)
41	37N68	BONDED POLY/PLYWOOD SIDE (LH)
42	37N51	FRONT PANEL
43	B111	AXLE BEARING
44	S47	GREASE LINE FITTING
*	12V36	WHEEL, 16.1 X 14, 8 BOLT
*	23N179	WHEEL, 8.25 X 22.5, 8 BOLT
*	UR19	TIRE, 295/75R22.5, RECAP, HIGHWAY TREAD

MEANS NOT SHOWN

FIGURE 3 **FRONT SHIELD & DRIVE ASSEMBLY**

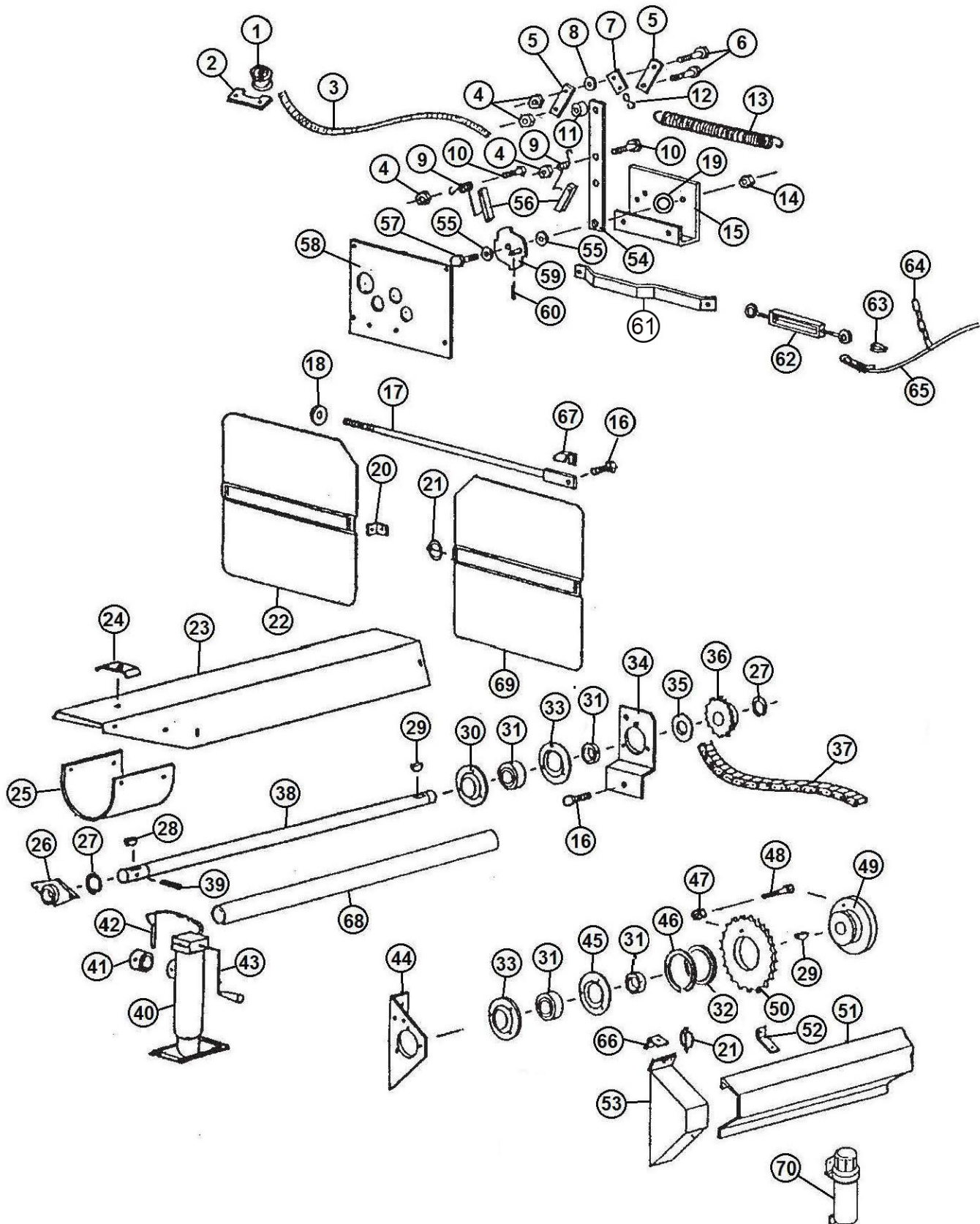


FIGURE 3

FRONT SHIELD & DRIVE ASSEMBLY

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	F33	CABLE GUIDE
2	23N182	BRACKET
3	23N183	ROPE - 15'
4	YNTL12005	HEX NUT, TOP LOCK, 3/8"-16
5	23N184	BRACKET
6	YBHH12035	BOLT, 3/8" X 1-1/4" GR. 5
7	23N185	SPRING BRACKET
8	YWFL12005	WASHER, FLAT, 3/8" USS
9	23N186	DOG SPRING
10	YBHH12010	BOLT, 3/8" X 1" GR. 5
11	D107	SPACER
12	X79	S-HOOK
13	23N187	SPRING
14	YNHX16005	HEX NUT, 1/2"
15	23N188	SHIFTER BRACKET
16	YBHH16045	BOLT, 1/2" X 1-1/4" GR. 5
17	23N63	TIGHTENER ROD
18	F129	WASHER
19	31N51	SHIFTER SPACER WASHER
20	F92	SHIELD BRACKET
21	YPLY08010	LYNCH PIN, 1/4" X 1-1/2"
22	23N305	FRONT SHIELD
23	23N66	SHIELD
24	23N67	TAILGATE HOSE BRACKET
*	HE42	HYDRAULIC DRIVE BRACKET
25	F54	SHIELD
26	12N29	BEARING
27	F73	SNAP RING
28	5B10	1/4" X 1" KEY
29	5B9	3/8" X 1-1/4" KEY
30	F114A	FLANGE, 1-1/4" W/45 DEG. ZERK
31	12N122	BEARING W/LOCK COLLAR ASSEMBLY
32	12N122	BEARING W/LOCK COLLAR ASSEMBLY
33	F14	BEARING FLANGE, 1-1/4" #62-MM-3
34	23N68	FRONT ADJUSTMENT PLATE
35	23N69	SPACER
36	23N70	25T SPROCKET
*	37N72	16T SPROCKET (OPTIONAL 1000 RPM)

*** MEANS NOT SHOWN**

FIGURE 3 **FRONT SHIELD & DRIVE ASSEMBLY**

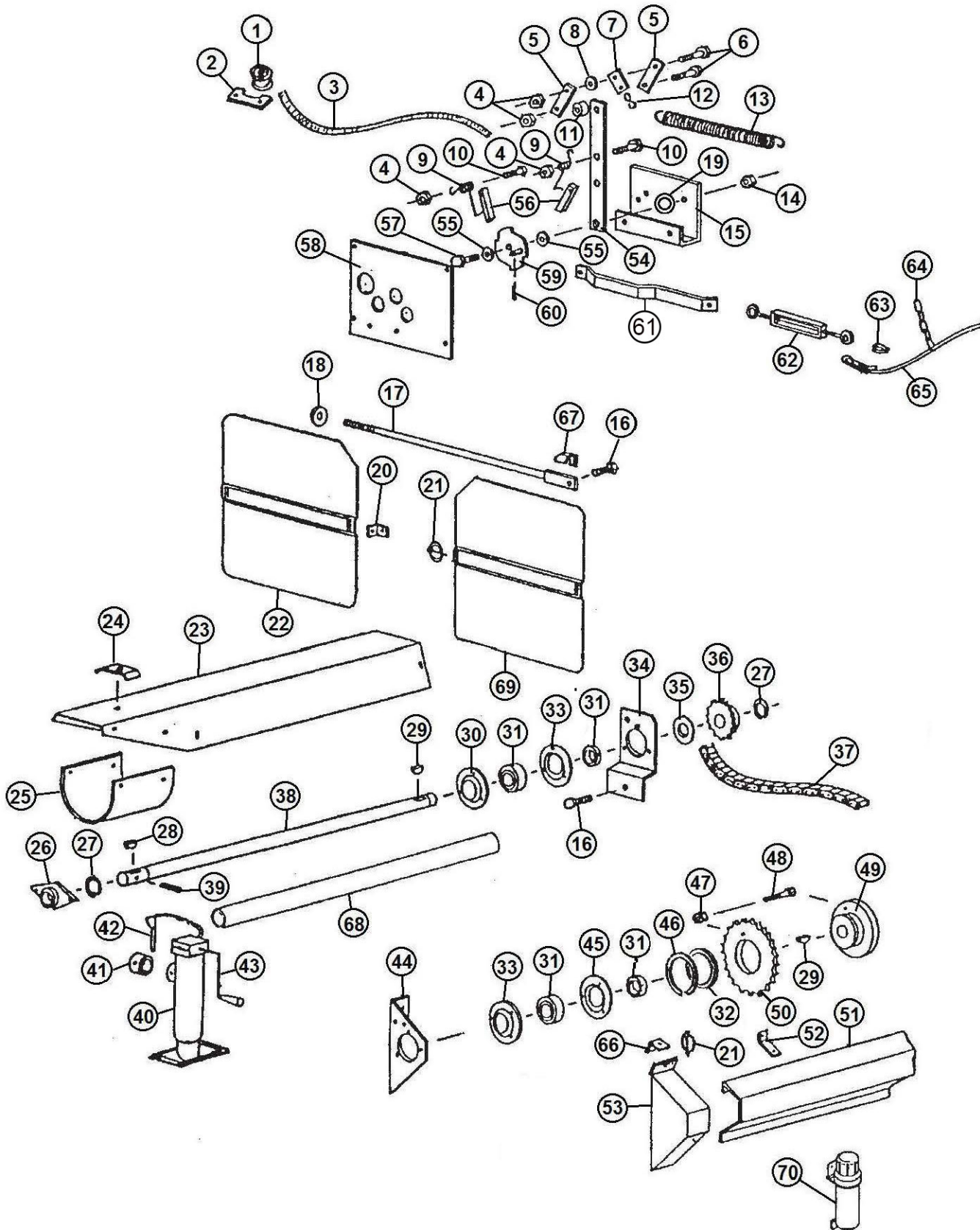


FIGURE 3

FRONT SHIELD & DRIVE ASSEMBLY

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
37	23N71	#60 ROLLER CHAIN 122 PITCHES
38	23N72	FRONT SHAFT
39	YPEX10020	EXPANSION PIN, 5/16" X 2-1/4"
40	27N49	JACK
*	12N120	JACK GEAR REPAIR KIT
41	27N51	JACK MOUNT
42	27N50	JACK PIN
43	12N119	HANDLE
*	12N118	REPLACEMENT BEARING
44	23N74	BEARING PLATE
45	F114A	FLANGE
46	23N189	SNAP RING
47	YNTL12005	HEX NUT, TOP LOCK, 3/8"-16
48	YBHH12025	BOLT, 3/8" X 1-1/2" GR. 5
49	45N71	SHEAR HUB
50	C1MS01	60-A-30 SPROCKET
51	31N17	SIDE SHIELD
52	23N79	BRACKET
53	23N80	SHIELD
54	23N192	FRONT SHIFTER ARM
55	YWFL16005	WASHER, FLAT, 1/2" USS
56	23N193	DOG
57	YBHH16055	BOLT, 1/2" X 1-3/4" GR. 5
58	23N195	SHIFTER PANEL
59	23N196	SPEED SELECTOR
60	YPCT04005	COTTER PIN, 1/8" X 1"
61	23N197	SHIFTER ARM
62	F84	TURNBUCKLE
63	F44	CABLE LOOP
64	23N198	CABLE CHAIN
65	31N27	CABLE
66	23N242	SHIELD BRACKET
67	23N278	SPACER
68	37N74	FRONT SHAFT GUARD
69	23N306	FRONT SHIELD LH
70	S522	MANUAL HOLDER
71	C112G01	SHEAR HUB SPACER

*** MEANS NOT SHOWN**

FIGURE 4
BACK SHIELDS & DRIVE ASSEMBLY

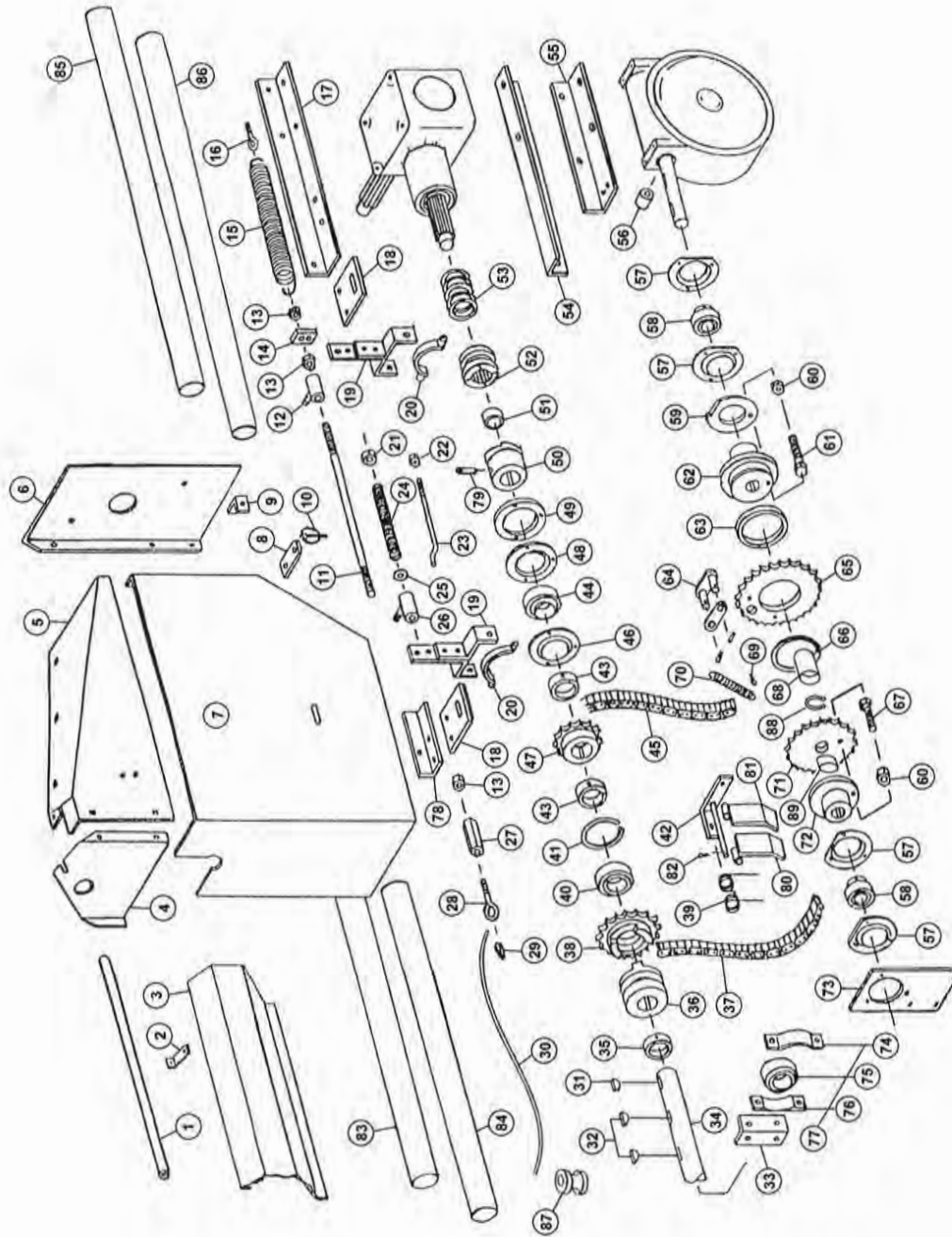


FIGURE 4

BACK SHIELDS & DRIVE ASSEMBLY

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	23N200	CABLE GUARD
2	23N79	SIDE SHIELD BRACKET
3	37N54	SIDE SHIELD
4	37N55	SHIELD
5	37N56	BACK SHIELD TOP
6	37N57	BACK SHIELD
7	23N204	COVER
8	23N96	SHIELD BRACKET
9	F92	ANGLE
10	S122	LYNCH PIN, 1/4" X 1-1/2"
11	23N205	CLUTCH ROD
12	23N206	SHIFTING ROD BRACKET
13	YNHX12005	HEX NUT, 3/8"-16
14	23N207	SPRING BRACKET
15	K103	SPRING
16	YBTE08005	TURNUED EYE BOLT, 1/4" X 1" FULL THREAD
17	23N85	TOP ANGLE
18	23N86	SHIFTER BRACKET
19	D57	SHIFTER LEVER
20	23N208	YOKE W/ ZERK
21	23N209	COLLAR
22	YNTL08005	HEX NUT, TOP LOCK, 1/4"-20
23	23N210	SHIFTING ROD
24	23N211	SPRING BRACKET
25	YWFL12005	WASHER, FLAT, 3/8" USS
26	23N206	ROD BRACKET
27	23N212	COUPLING NUT
28	YBTE12005	TURNUED EYE BOLT, 3/8" X 1"
29	F44	CABLE LOOP
30	37N53	CABLE
31	5B9	3/8" X 1-1/4" WOODRUFF KEY
32	5B10	1/4" X 1" WOODRUFF KEY
33	23N97	SIDE BEARING BRACKET
34	37N58	SIDE SHAFT
35	F6	COLLAR
36	23N215	CLUTCH THROW-OUT
37	23N93	#50 CHAIN 60 PITCHES
38	23N216	CLUTCH SPROCKET
*	61138	INCLUDES (SPROCKET,BEARING,SNAP RING)
39	31N33	SPRING TIGHTENER
40	BFR525	BEARING
41	3G19	SNAP RING
42	31N36	TIGHTENER BRACKET
43	12N122	BEARING W/LOCK COLLAR ASSEMBLY
44	12N122	BEARING W/LOCK COLLAR ASSEMBLY
45	23N93	#50 CHAIN 60 PITCHES
46	F114A	FLANGE
47	10R11	13 TOOTH SPROCKET

*** MEANS NOT SHOWN**

FIGURE 4
BACK SHIELDS & DRIVE ASSEMBLY

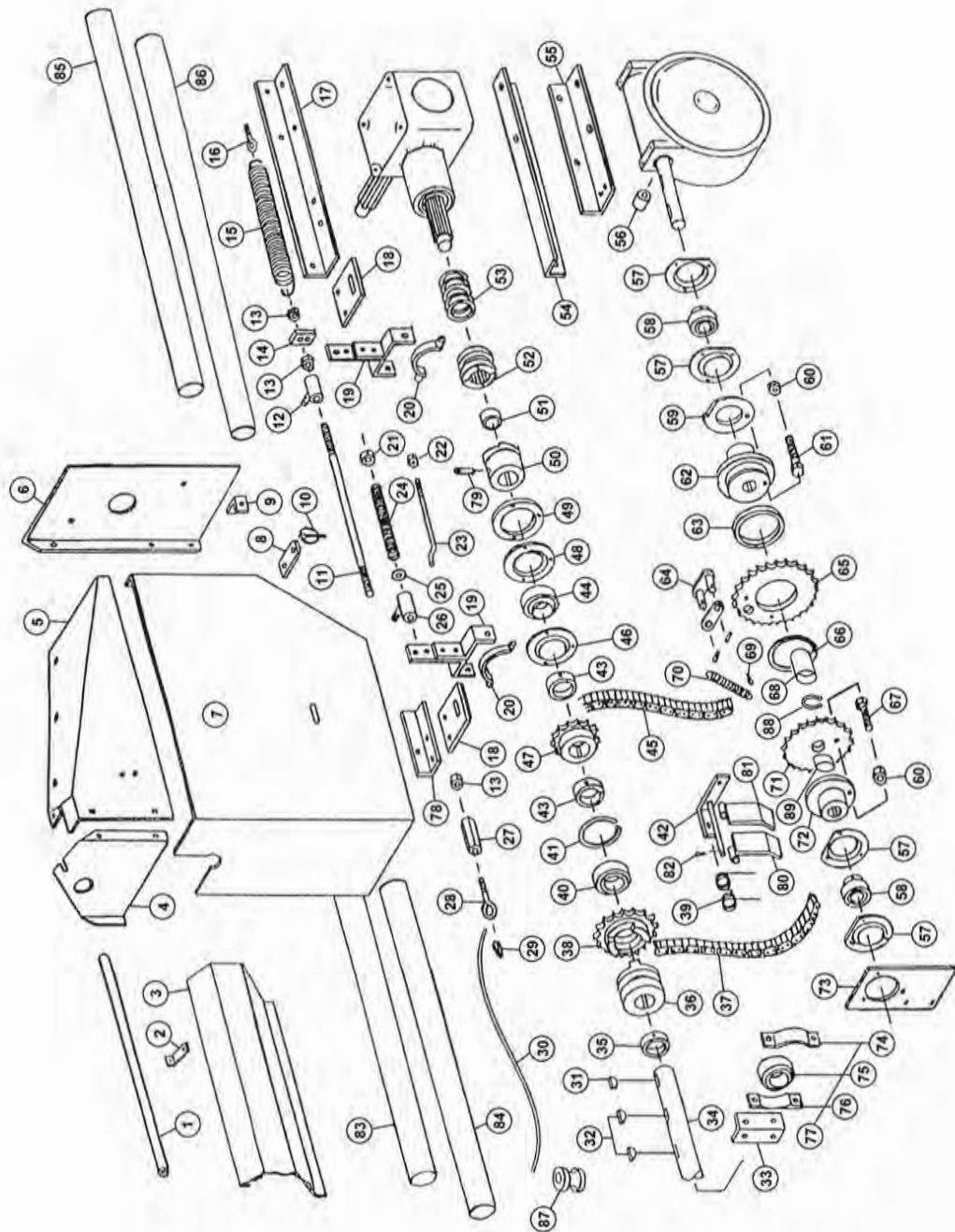


FIGURE 4

BACK SHIELDS & DRIVE ASSEMBLY

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
48	F14	FLANGE
49	23N174	FLANGE SPACER
50	23N241	CLUTCH
51	D68	BRONZE BUSHING
52	23N90	CLUTCH
53	23N89	SPRING
54	23N88	BOTTOM ANGLE
55	23N95	WORM BOX HOLDER
56	23N94	SPACER
57	X85	FLANGE
58	23N221	BEARING W/ SETSCREWS
59	23N222	SHEAR PLATE
60	YNTL08005	HEX NUT, TOP LOCK, 1/4"-20
61	YBHH08035	BOLT, 1/4" X 1-1/4" GR. 5
62	23N224	SHEAR HUB
63	23N225	BRONZE RING
64	60531	CONNECTOR LINK W/ PINS
65	23N226	30T SPROCKET
66	23N227	SNAP RING
67	YBHH08035	BOLT, 1/4" X 1-1/4" GR. 5
68	56029	SPACER
69	YPCT04005	COTTER PIN, 1/8" X 1"
70	23N229	DOG SPRING
71	56026	25T SPROCKET
72	56025	SHEAR HUB
73	23N230	BEARING PANEL
74	12N34	BEARING COVER
75	12N33	BEARING
76	12N35	HOLDER
77	12N36	BEARING
78	23N239	SHIFTER SUPPORT
79	YSFD12005	SET SCREW, SOCKET, FULL DOG PT, 3/8"-16 X 3/4"
80	31N34	LH TIGHTENER BAR
81	31N35	RH TIGHTENER BAR
82	YPCT04005	COTTER PIN, 1/8" X 1"
*	X60	#50 OFFSET
*	X61	#50 CONN.
*	31N38	CHAIN TIGHTENER ASSEMBLY
83	37N76	#2 SIDE SHAFT GUARD
84	37N75	#1 SIDE SHAFT GUARD
85	37N76	#4 SIDE SHAFT GUARD
86	37N77	#3 SIDE SHAFT GUARD
87	F33	CABLE GUIDE
88	56024	EXTERNAL SNAP RING 1-1/2"
89	56027	BUSHING
*	56036	SPROCKET BUSHING ASSEMBLY (INCLUDES ITEM #71 & #89)

*** MEANS NOT SHOWN**

FIGURE 5
HYDRAULIC ENDGATE ASSEMBLY

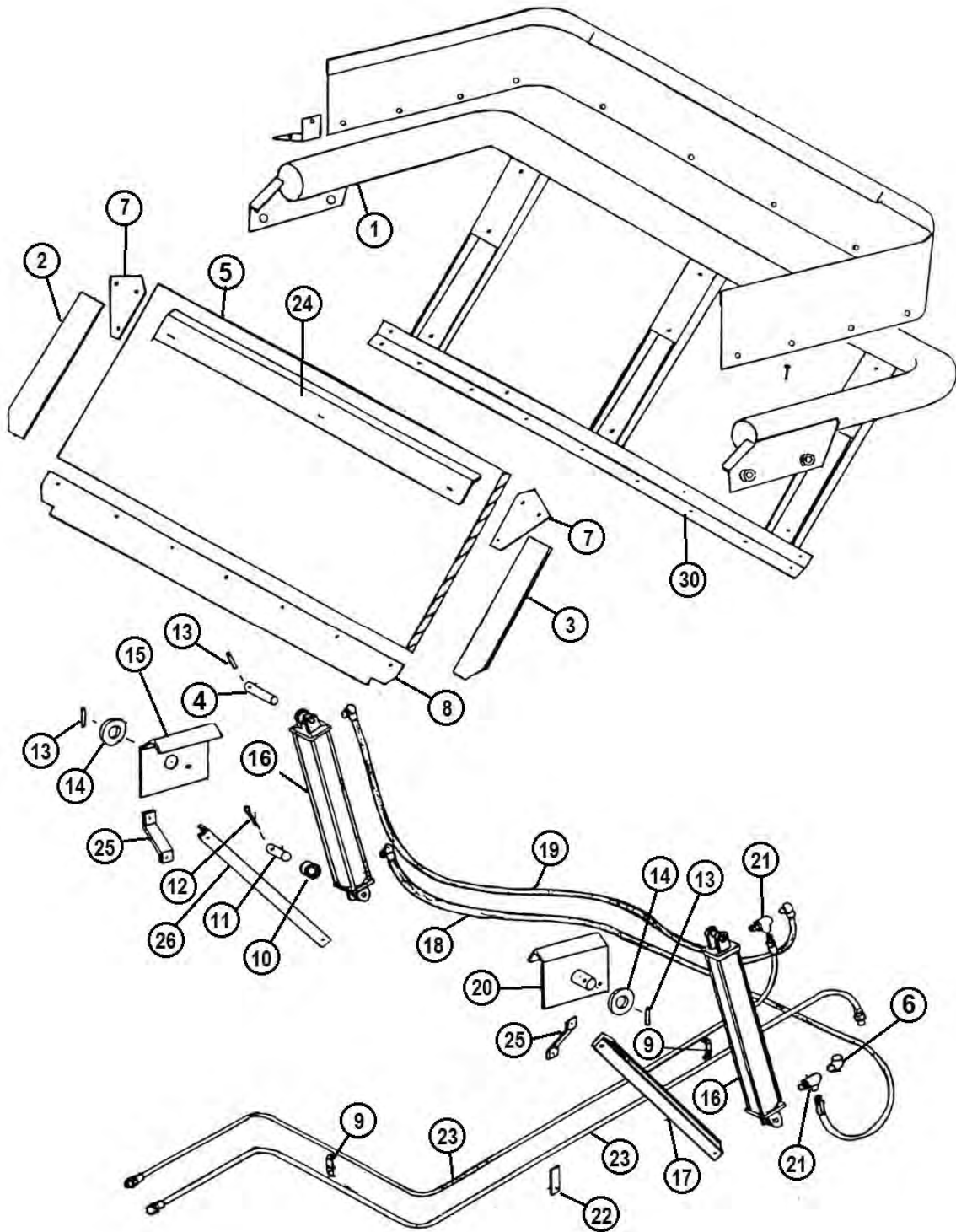


FIGURE 5

HYDRAULIC ENDGATE ASSEMBLY

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	37N79	TAILGATE FRAME
2	37N35	RH SIDE RUBBER
3	37N36	LH SIDE RUBBER
4	23N301	CYLINDER PIN
5	31N69A	TAILGATE PLYWOOD W/FIBERGLASS
6	23N234	ELBOW, STREET, 3/8", 90 DEGREE
7	23N104	TAILGATE CORNER
8	23N105	BOTTOM RUBBER
9	23N67	FRONT HOSE BRACKET
10	K132	SPACER 3/8" LONG
11	23N107	CYLINDER PIN
12	YPCT07005	COTTER PIN, 7/32" X 2"
13	YPEX10015	EXPANSION PIN, 5/16" X 1-3/4"
14	23N109	TAILGATE WASHER
15	23N299	RH TAILGATE MOUNT
16	56015	HYD CYL 2" X 16" W/PINS 90DEGREE TO PORTS
17	37N59	LH TAILGATE BRACE
18	37N60	HOSE
19	37N61	HOSE
20	23N300	LH TAILGATE MOUNT
21	23N116	3/8" TEE
22	23N117	HOSE HOLDER
23	37N83	3/8" X 316" HOSE
24	23N163	TAILGATE POLY HOLD DOWN
25	23N232	TAILGATE BRACKET BRACE
26	37N62	TAILGATE BRACKET BRACE

FIGURE 6

APRON CHAIN ASSEMBLY

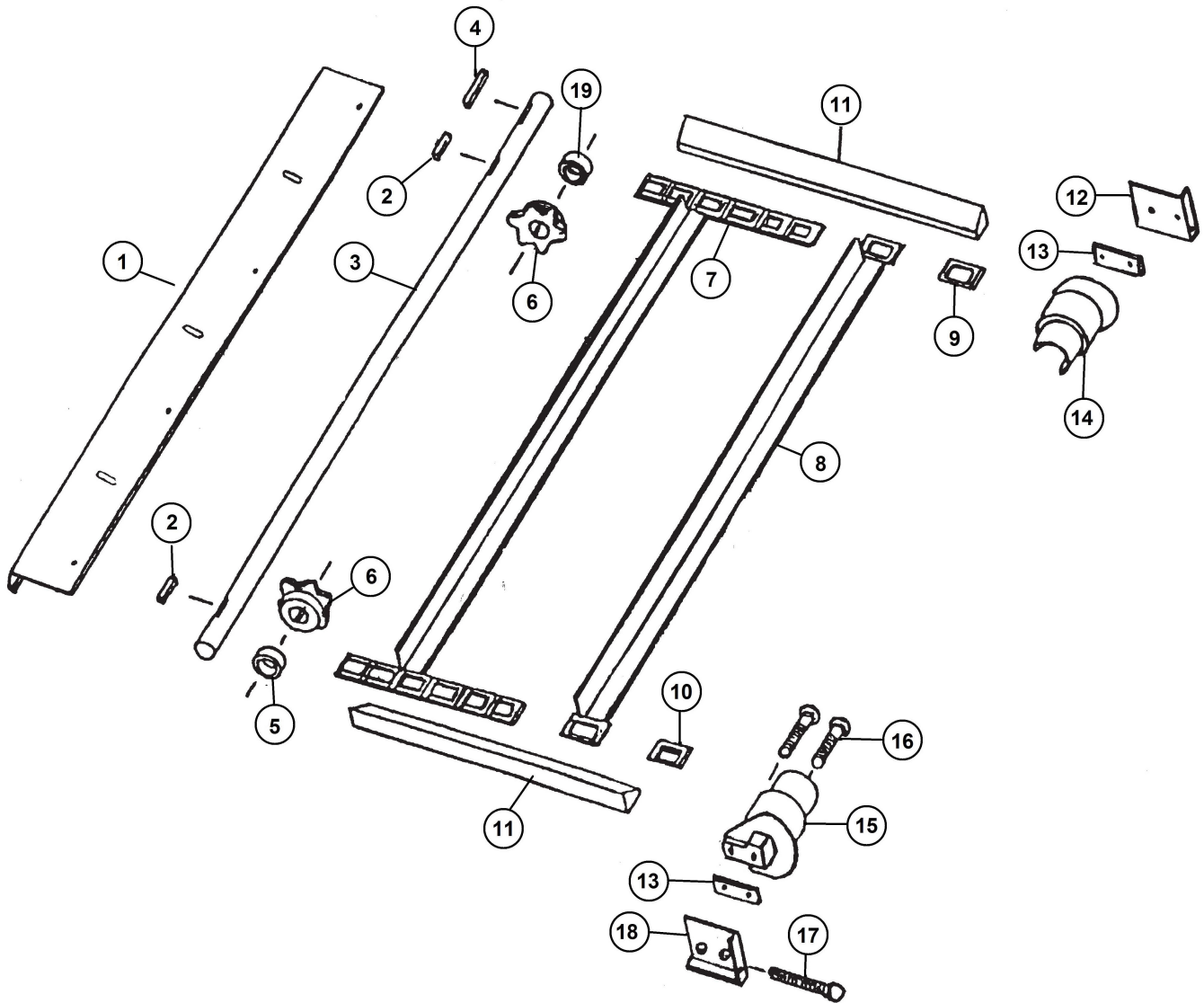


FIGURE 6

APRON CHAIN ASSEMBLY

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	37N82	DRIVE SHAFT SHIELD
2	23N303	3/8" x 1-3/4" SQUARE KEY
3	27N19	DRIVE SHAFT
4	S138	3/8" x 2-3/8" SQ. KEY W/ROUND ENDS
5	23N121	SPACER 5/8"
6	23N122	DRIVE SPROCKET 6T
7	37N42	APRON CHAIN 28 SLATS, 280 LINKS
8	23N124	SLAT W/ATTACHMENT LINKS
9	S55	T-ROD STANDARD LINK
10	S55	T-ROD STANDARD LINK
11	37N43	APRON CHAIN SIDE SPACERS CHAIN
12	A30	SLIDE PLATE LH
13	23N126	CHAIN SLIDE SPACER
14	23N127	T-ROD SLIDE LH
15	23N128	T-ROD SLIDE RH
16	YBCR16045	1/2" x 4" CARRIAGE BOLT GR.5
17	YBHH16145	1/2" x 4-1/2" BOLT GR.5
18	A29	CHAIN SLIDE PLATE RH
19	23N266	SPACER 5/16"

FIGURE 7
OPTIONAL HYDRAULIC DRIVE ASSEMBLY

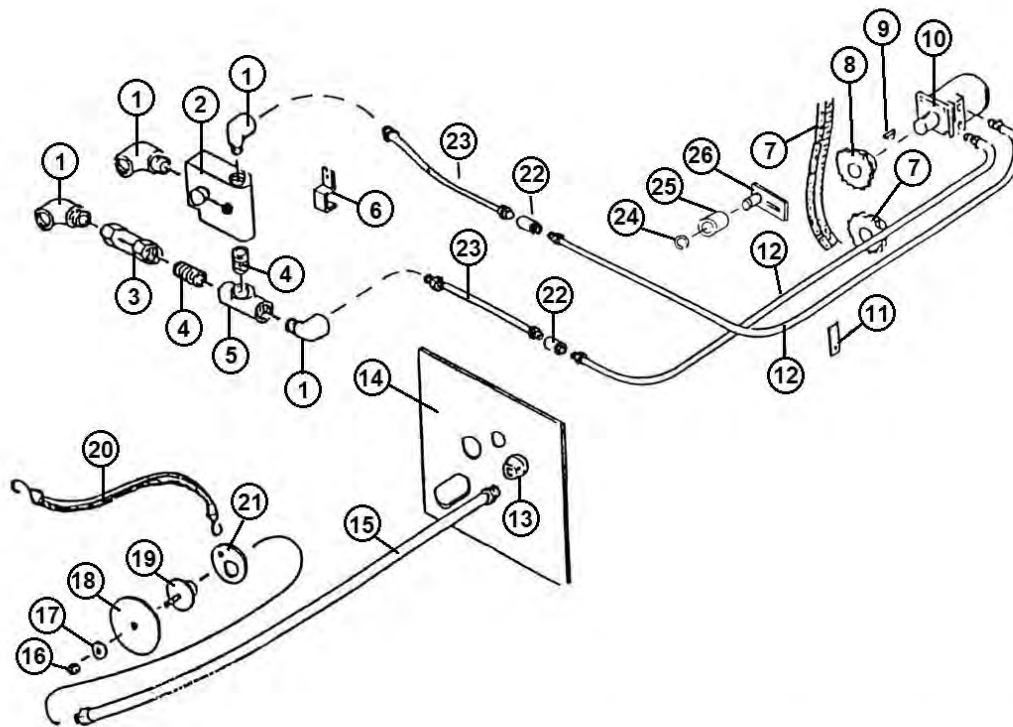


FIGURE 7

OPTIONAL HYDRAULIC DRIVE ASSEMBLY

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	HE58	90O STREET ELBOW
2	DF15	SPEED CONTROL
3	DF18	CHECK VALVE
4	DF7	NIPPLE
5	DF8	TEE
6	HE14	HOSE BRACKET
7	23N131	#50 CHAIN 40 PITCHES
8	11S19	20T SPROCKET
9	5B10	1/4" X 1" WOODRUFF KEY
10	DF1	HYDRAULIC MOTOR
11	23N117	HOSE HOLDER
12	23N132	HYDRAULIC MOTOR HOSE
13	DF21	REDUCER
14	23N133	CONTROL PANEL
15	DF9	HOSE FOR HANDLE
16	YNTL12005	HEX NUT, TOP LOCK, 3/8"-16
17	DF12	WASHER
18	DF11	HANDLE
19	DF10	HANDLE BRACKET
20	DF14	STRAP
21	DF22	RING FOR STRAP
22	31N23	COUPLING
23	HE12	HOSE
24	10R32	SNAP RING
25	23N238	CHAIN TIGHTENER ROLLER
26	L10R35	TIGHTENER BRACKET

FIGURE 8
WORM GEARBOX ASSEMBLY

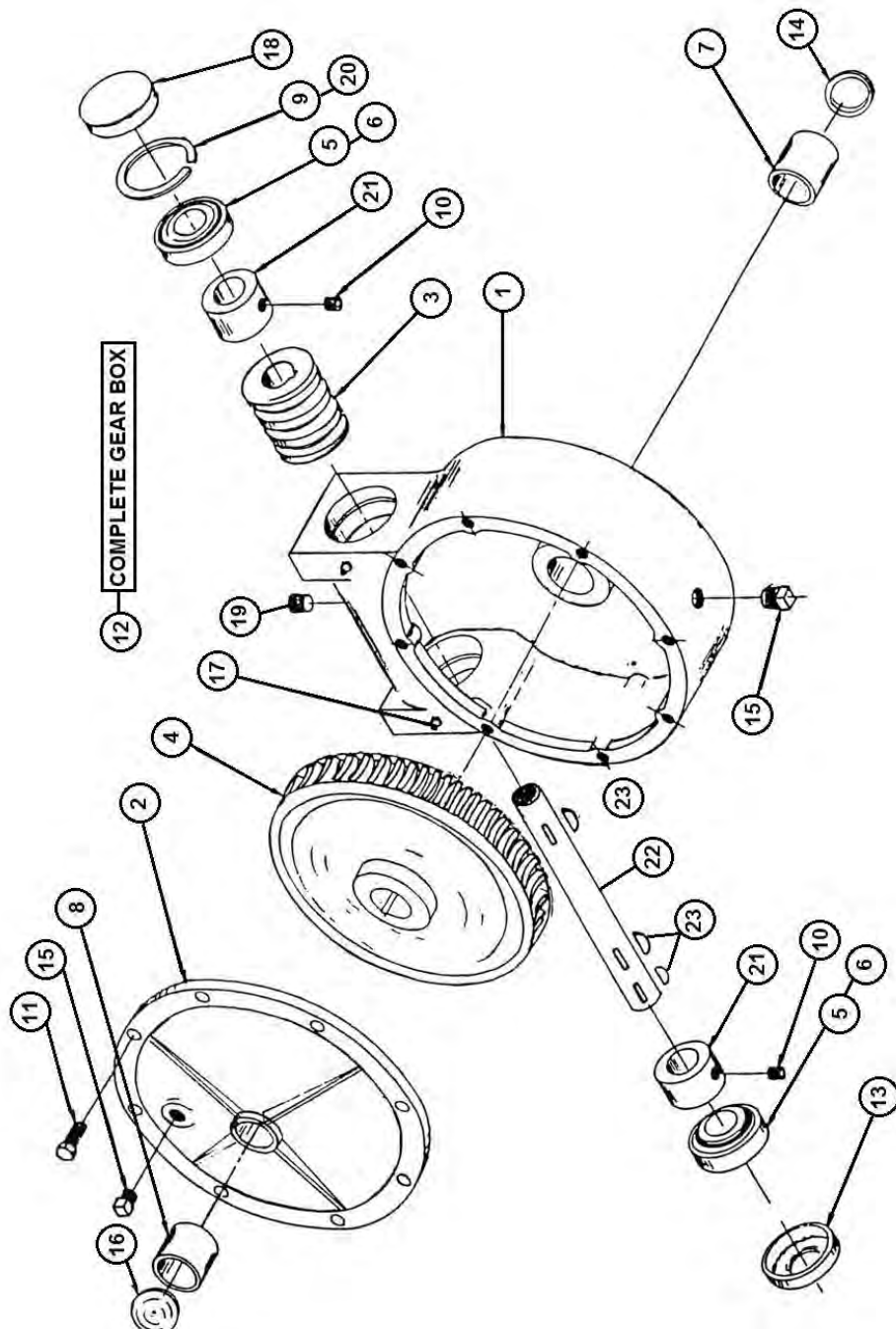


FIGURE 8

WORM GEARBOX ASSEMBLY

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	G114	HOUSING
2	G116	COVER
3	G76	WORM
4	G77	WORM GEAR
5	G78	BEARING #15101
6	G79	BEARING CUP #15245 BEARING -
7	X8	OIL LITE
8	X75	BEARING - OIL 1 1/2 X 1 3/4 X 1 1/4
9	G82	SNAP RING
10	YSKP12025	SETSCREW 3/8" NC x 3/8" LONG
11	YSKP12005	CAPSCREW 3/8" NC x 1" LONG
12	G122	WORM GEARBOX COMPLETE
13	G123	SEAL
14	17G133	SEAL
15	G65	PLUG 3/8" NPT
16	G117	CAP 1-7/8"
17	G89	ZERK 1/4"-28
18	G90	CAP
19	G91	VENT PLUG 3/8" NPT
20	G92	SHIM
21	G93	SPACER
22	23N236	WORM GEAR SHAFT
23	5B10	1/4" x 1" WOODRUFF KEY
*	G88	GASKET

*** MEANS NOT SHOWN**

FIGURE 9
BEVEL GEARBOX

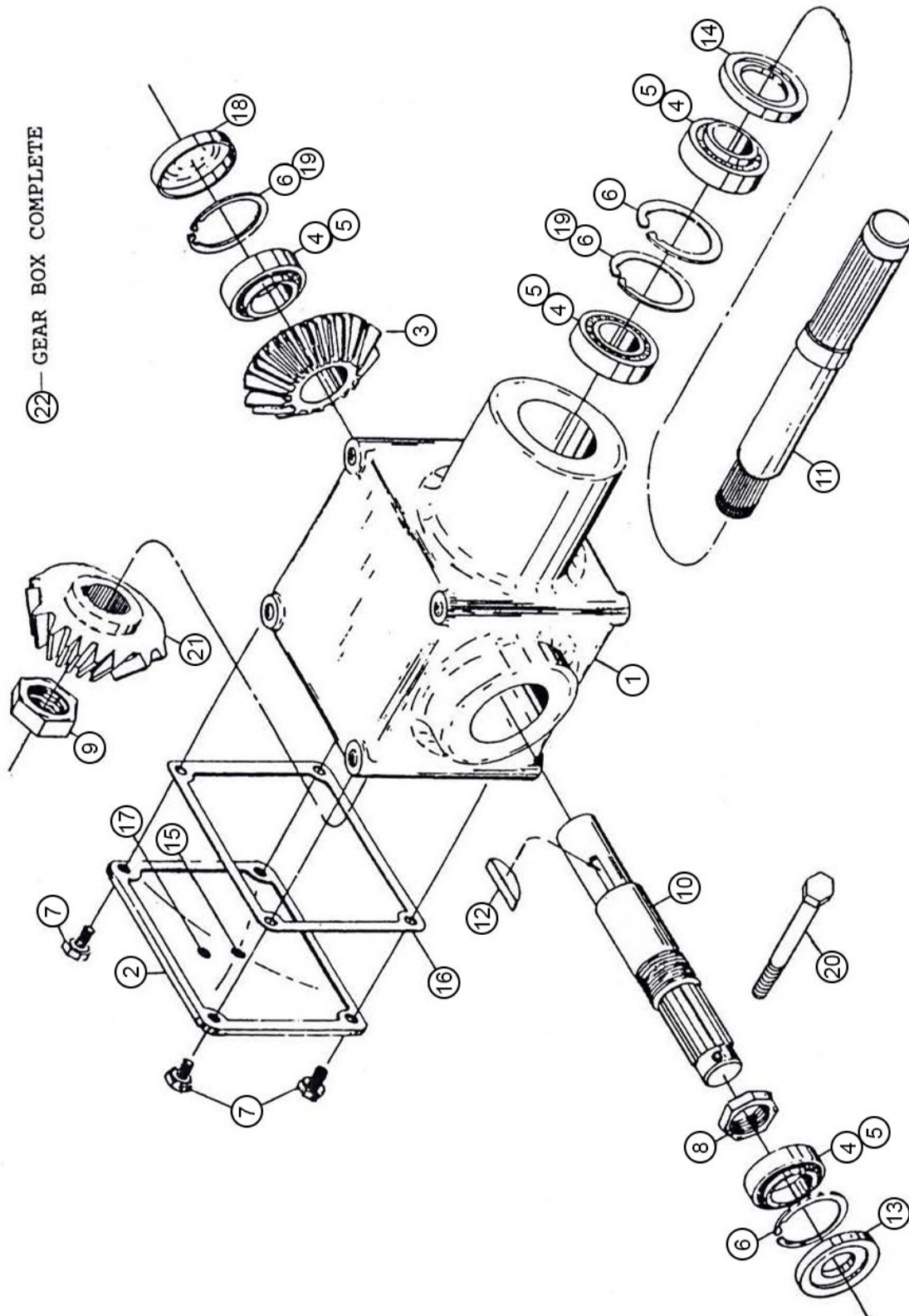
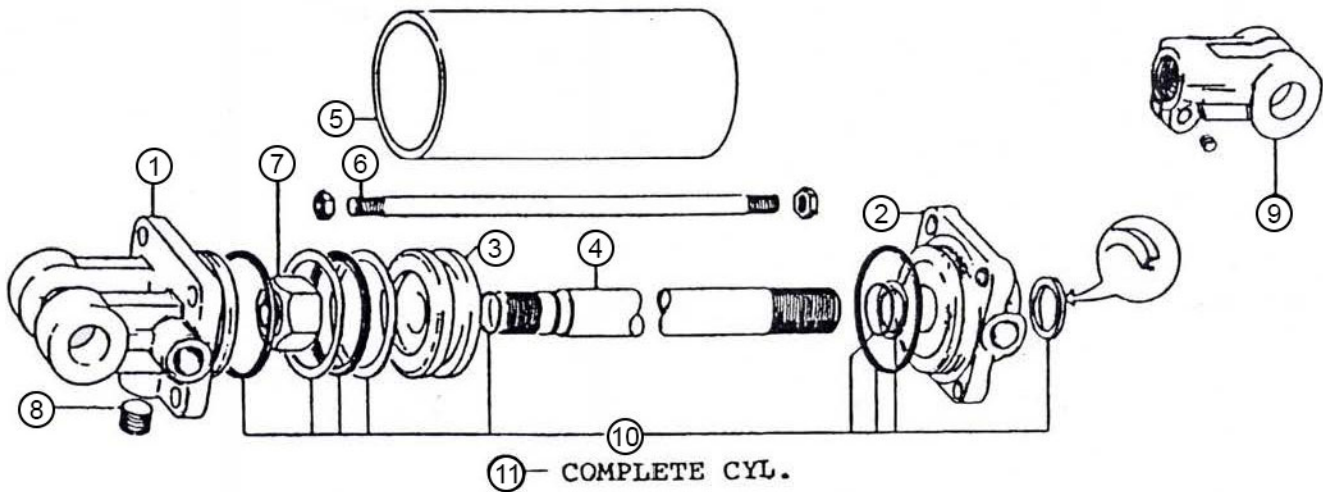


FIGURE 9

BEVEL GEARBOX

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	G50	HOUSING
2	G51	COVER
3	23N136	BEVEL GEARBOX 24T
4	G53	BEARING #14137A
5	G54	BEARING CUP #14276
6	G55	SNAP RING
7	YBHH10132	CAPSCREW, 5/16" X 5/8"
8	G57	STAKE NUT 1-1/2"
9	31N39	STAKE NUT 1-1/8"
10	23N137	SHAFT - OUTPUT
11	31N40	SHAFT - INPUT DOUBLE SPLINED
12	G61	"E" (1210) WOODRUFF KEY (Hard5)
13	G63	SEAL - OUTPUT
14	G64	SEAL - INPUT
15	G65	PLUG 1/8" NPT
16	G66	GASKET
17	G67	PLUG 1/8" NPT
18	G68	CAP
19	G69	SHIM
20	YBHH10130	5/16" x 5" BOLT GR.5
21	31N41	BEVEL GEAR 16T-SPLINED
22	31N42	BEVEL GEARBOX COMPLETE

FIGURE 10 **HYDRAULIC CYLINDER**

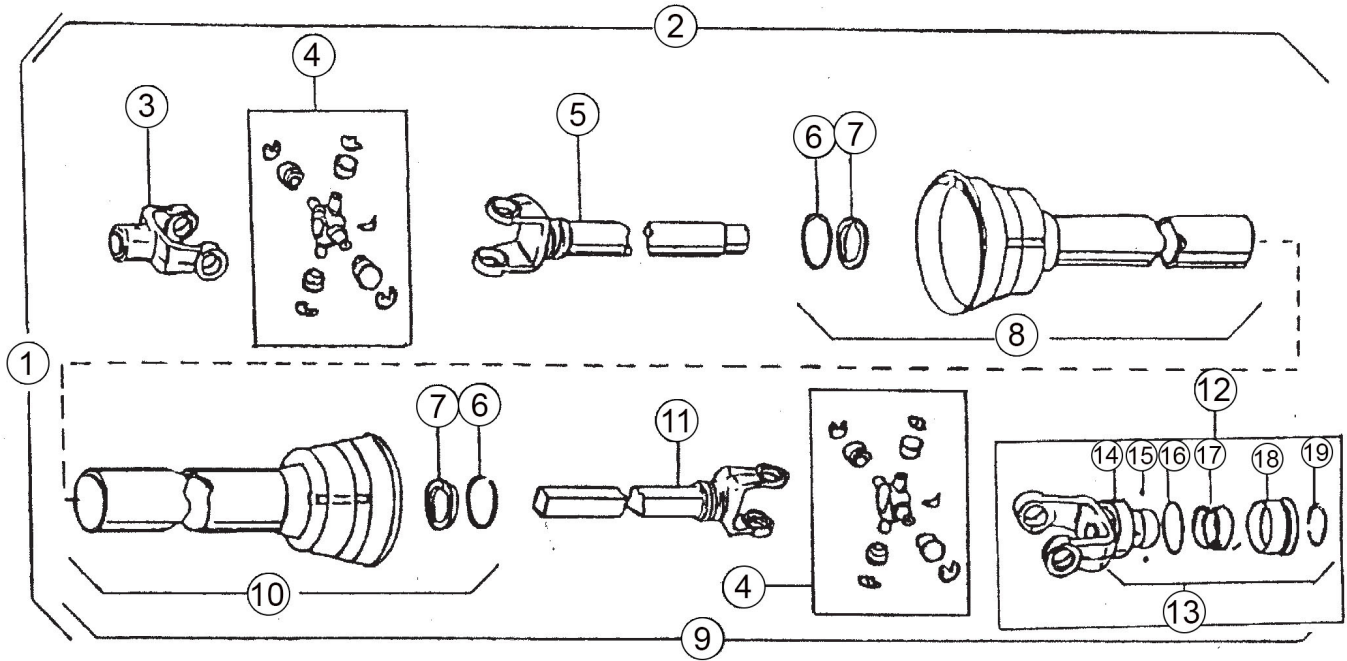


<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	23N142A	CLEVIS CAP
2	23N143A	ROD CAP
*	56174	ROD CAP
3	23N144	PISTON
*	56180	PISTON FOR 2" CYLINDER
4	23N145A	ROD CAP
5	23N146	CYLINDER TUBE
6	23N147	TIE ROD
7	23N148	PISTON NUT
8	23N149	PLUG
9	23N150A	ROD CLEVIS
10	23N151	SEAL KIT
*	56187	SEAL KIT FOR 2" CYLINDER
11	23N111A	HYDRAULIC CYLINDER
*	56015	2" X 16" HYDRAULIC CYLINDER

*** MEANS NOT SHOWN**

FIGURE 11

PTO ASSEMBLY



<u>ITEM</u>	<u>PART #</u>	<u>1000 RPM</u>	<u>DESCRIPTION</u>
1	23N152	23N313	PTO COMPLETE W/SHIELDS
2	23N153	"	MACHINE HALF PTO W/SHIELDS
3	G1R35	"	END YOKE MACHINE HALF
4	14NWKIT	"	REPAIR KIT
5	23N155	"	YOKE AND TUBE
6	24N26	"	BEARING RETAINER
7	4N20	"	NYLON BEARING
8	23N156	"	INNER GUARD INCLUDING ITEM #6 & #7
9	23N157	23N314	TRACTOR HALF PTO W/SHIELD
10	23N158	23N315	OUTER GUARD INCLUDING ITEM #6 & #7
11	23N159	"	YOKE AND SHAFT
12	23N162	"	LOCK YOKE ASSEMBLY
*	37N73	"	OPTIONAL 1000 RPM YOKE (1-3/8")
13	S225	"	SPRING LOCK REPAIR KIT
14	S226	"	COVER
15	S212	"	STAINLESS BALL
16	S227	"	WASHER
17	S228	"	SPRING
18	S229	"	COLLAR ASSEMBLY
19	S215	"	RETAINING RING
*	S402	"	PTO SAFETY MANUAL

* MEANS NOT SHOWN

" MEANS SAME # AS PREVIOUS MODEL

FIGURE 12
OPTIONAL 2ND BEATER

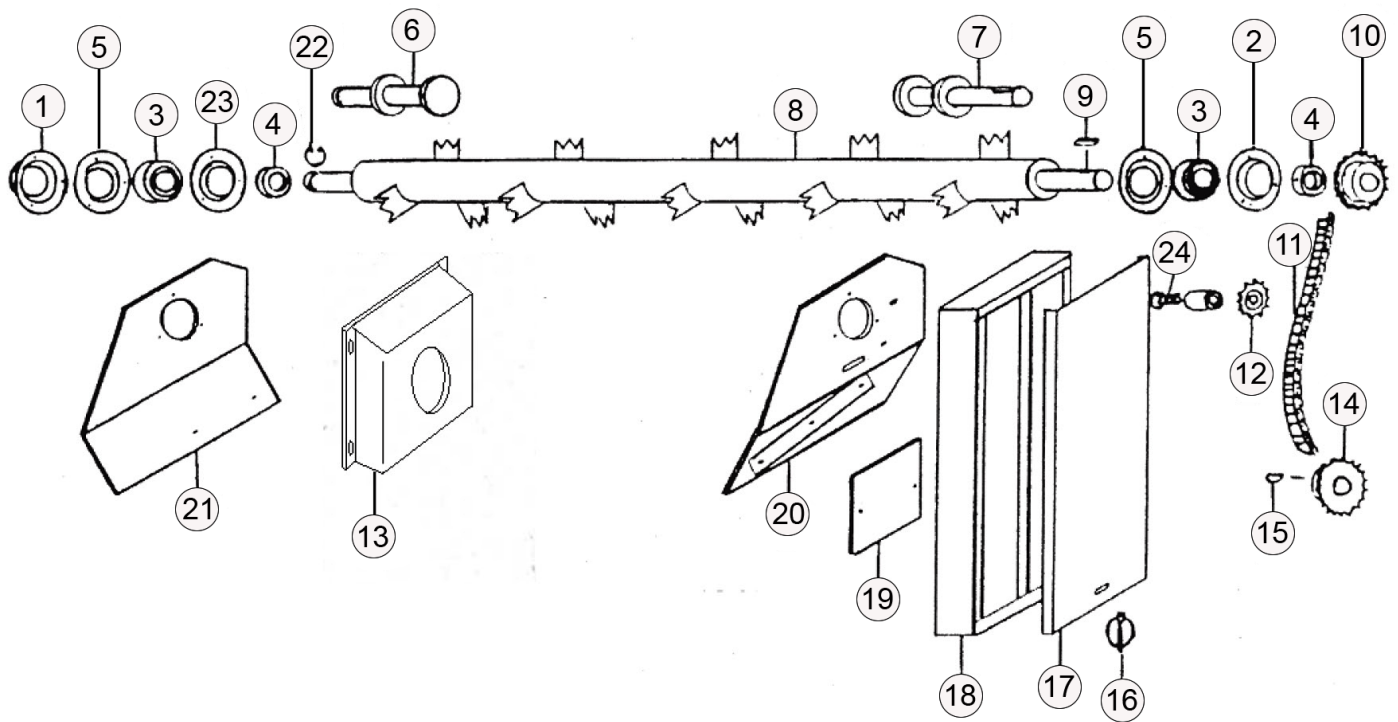


FIGURE 12

OPTIONAL 2ND BEATER

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	23N308	BEARING FLANGE GUARD
2	F114A	BEARING FLANGE W/ ZERK 450
3	12N122	BEARING W/ LOCK COLLAR ASSY.
4	12N122	BEARING W/ LOCK COLLAR ASSY.
5	F14	BEARING FLANGE, 1-1/4" #62-MM-3
6	23N164	LH STUB SHAFT
7	23N165	RH STUB SHAFT
8	23N166	2ND BEATER
9	G23	5/16" X 1-3/8" SQUARE KEY
10	D18	SPROCKET
11	37N49	#60 CHAIN
12	12N42	IDLER SPROCKET
13	57216	BEATER BEARING PROTECTOR
14	F13	SPROCKET
15	5B9	3/8" X 1-1/4" KEY
16	F56	CLIP PIN
17	23N169	COVER
18	37N48	SHIELD
19	37N45	SHIELD
20	37N46	RH PANEL
21	37N47	LH PANEL
22	F73	SNAP RING
23	F114A	FLANGE W/ STRAIGHT ZERK
24	YBCR16030	CARR. BOLT, 1/2" X 2-1/2" GR. 5

FIGURE 13
OPTIONAL ELECTRIC CONTROL FOR HYDRAULIC DRIVE

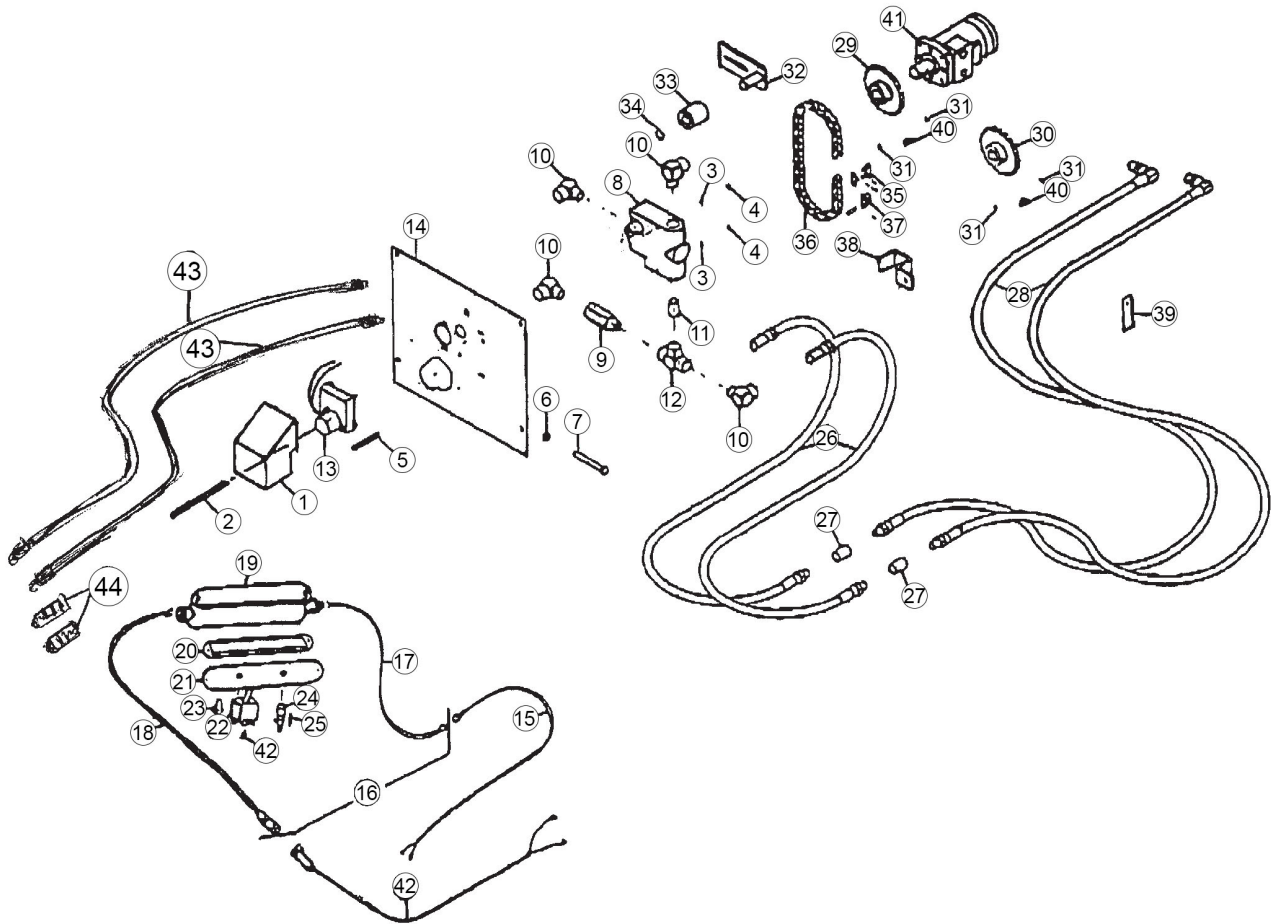


FIGURE 13

OPTIONAL ELECTRIC CONTROL FOR HYDRAULIC DRIVE

<u>ITEM</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	43H1	MOTOR SHIELD HOLDER
2	43H3	SHIELD BOLT
3	YWLO08005	LOCKWASHER, 1/4"
4	YNTL08005	TOP LOCK NUT, 1/4"
5	YBCR08025	CARR. BOLT, 1/4"X2 1/2
6	YNTL12005	TOP LOCK NUT, 3/8"
7	43H5	FLOW INDICATOR
8	DF15A	FLOW CONTROL
9	DF18	CHECK VALVE
10	HE58	ELBOW
11	DF4	NIPPLE
12	DF8	TEE
13	16SV246	GEAR MOTOR
14	23N133	CONTROL PANEL
15	16SV272	SPREADER CONTROL CORD
16	16SV321	CONTROL END COMPLETE
17	16SV270	TRACTOR POWER SUPPLY
18	16SV271	CONTROL BOX POWER SUPPLY
19	16SV316	CONTROL BOX
20	16SV317	CONTROL BOX GASKET
21	16SV318	CONTROL BOX COVER
22	16SV319	APRON SPEED SWITCH
23	16SV235	FLOW CONTROL SWITCH BOOT
24	16SV231	FUSE HOLDER
25	16SV232	FUSE 5 AMP (AGC-5)
26	HE12	HOSE EXTENSION
27	31N23	3/8" COUPLING
28	23N132	HYDRAULIC MOTOR HOSE
29	DF1	HYDRAULIC MOTOR
30	11S19	DRIVE SPROCKET
31	YSKP10010	SETSCREW(5/16"-18)
32	L10R35	TIGHTENER BRACKET
33	23N238	TIGHTENER ROLLER
34	10R32	SNAP RING
35	X61	#50 CHAIN CONNECTOR
36	23N131	#50 CHAIN 40 Pitches
37	X60	#50 CHAIN OFFSET
38	HE14	HOSE BRACKET
39	23N117	HOSE HOLDER
40	5B10	1/4" x 1" WOODRUFF KEY
41	YBHH12055	BOLT, 3/8" X 1 3/4"
42	16SV269	TRACTOR POWER SUPPLY CORD
43	23N309	HYDRAULIC HOSE
44	DWM205	MALE HYDRAULIC TIP

PARTS NOTES

[illegible]

H&S MFG. CO.

products approved

for the

FEMA

SEAL OF QUALITY

