

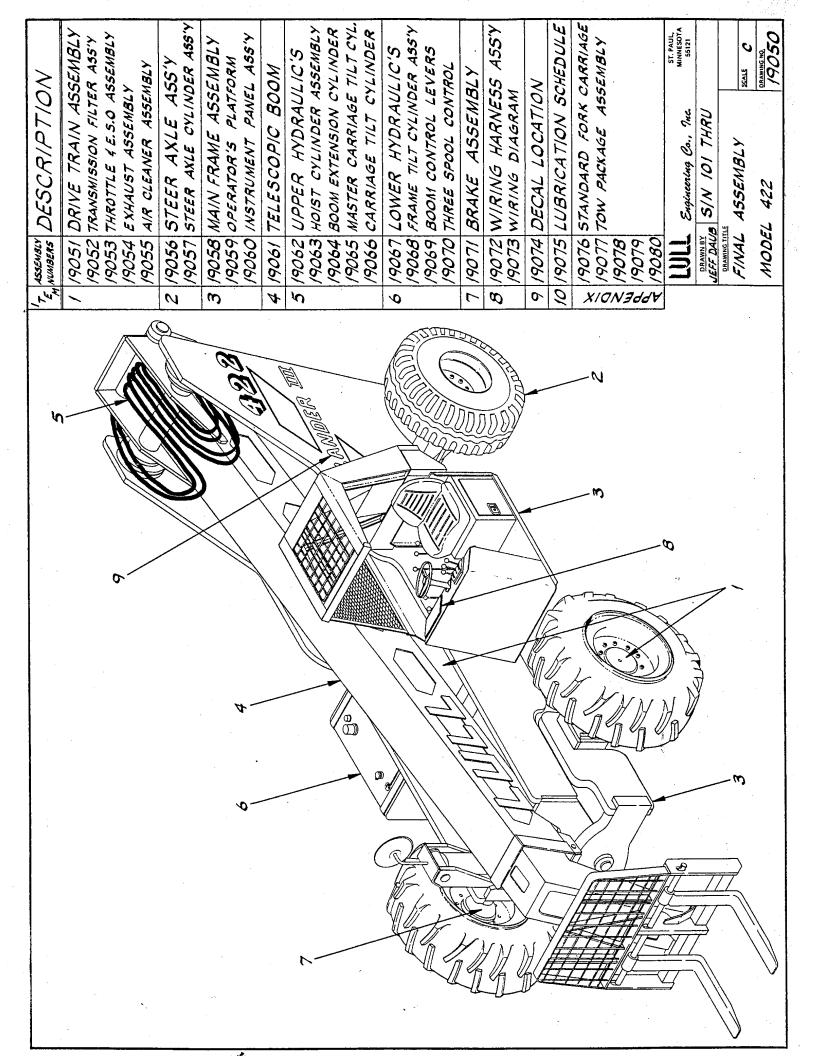
Illustrated Parts Manual

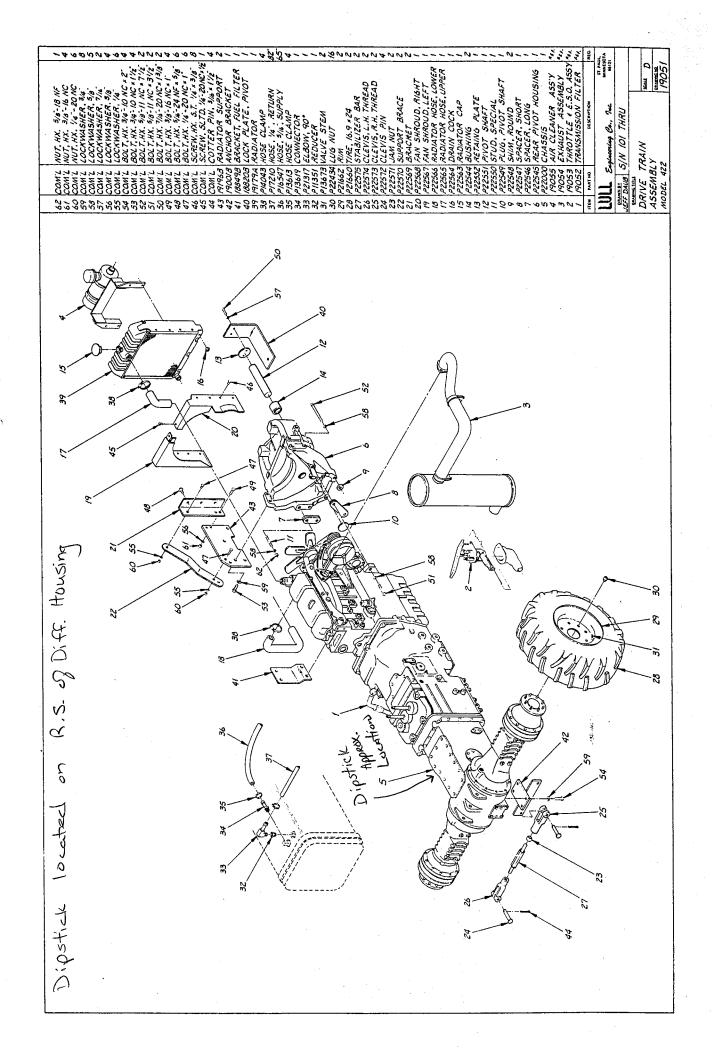
Model 422

10709897 S/N 102 to 186

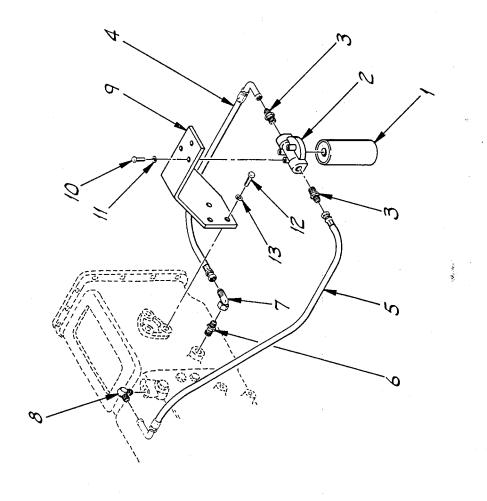
October 1980 - December 1982

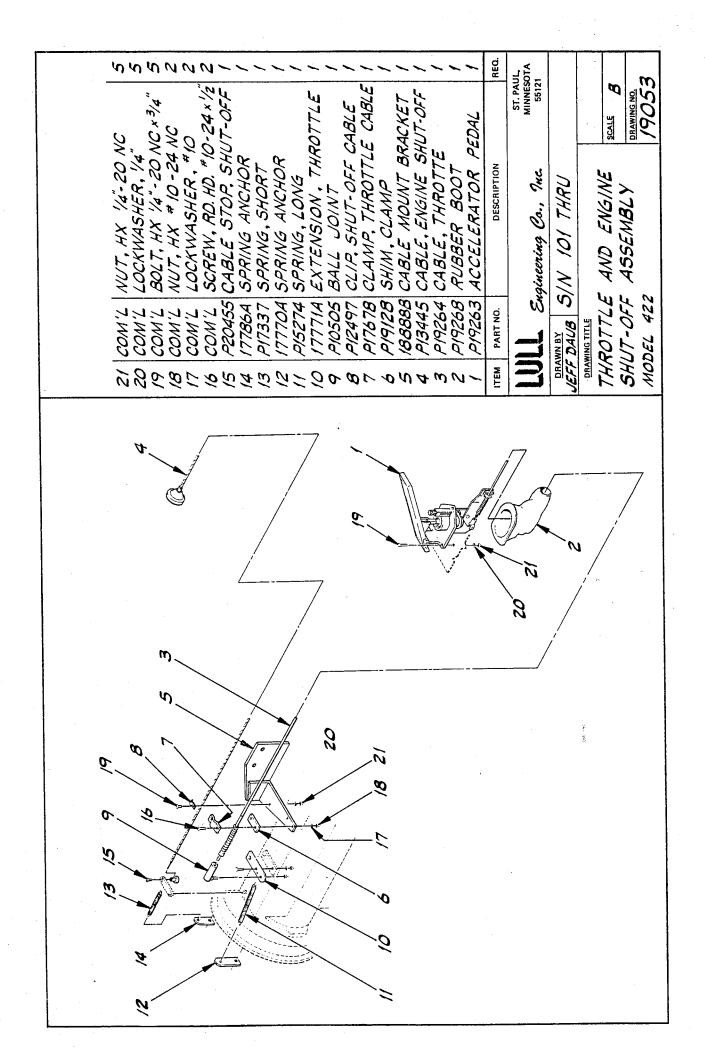


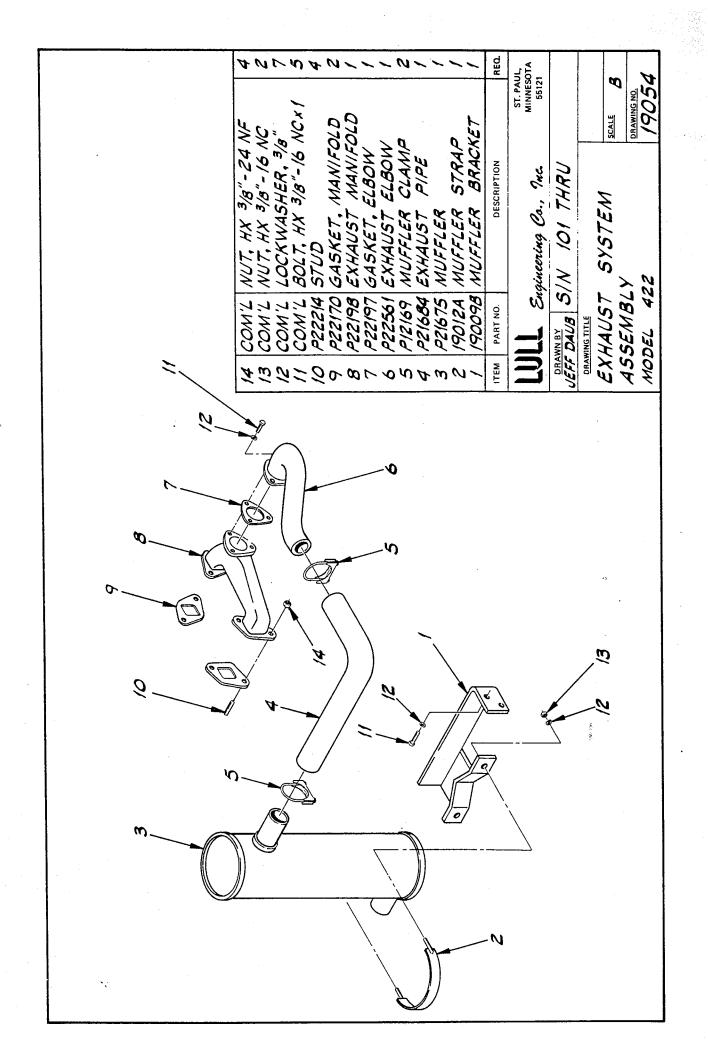


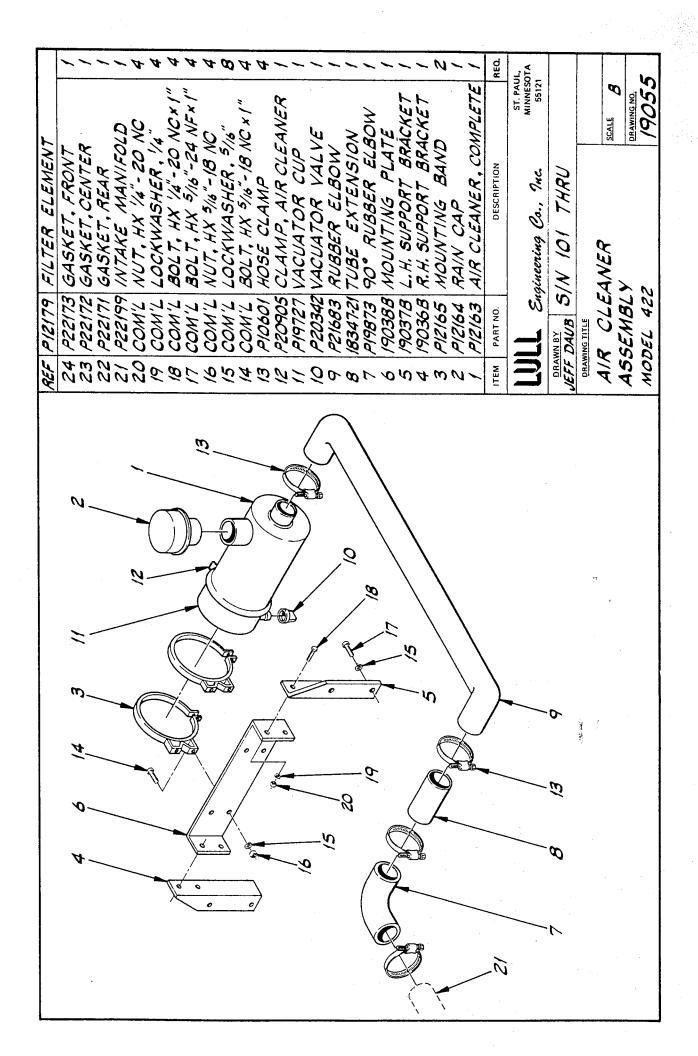


	/3	7, WOS	LOCKWASHER, 7/16"	
	12	COM'L	BOLT. HX. 7/16"-14 NC ×1/4"	'n
	: "	COM'L	LOCKWASHER, 5/16"	
	9	7,1100	BOLT, HX. 5/16"-18 NC×1"	n
	٥	188508	FILTER SUPPORT BRKT.	_
	B	2568/2	90° MALE ELBOW	_
	^	P21579	90° MALE ELBOW, SW.	_
-	ď	P18944	CONNECTOR, O-RING	_
	'n	P21637	HYD. HOSE, 1/2" x 10"	,
	4	P21636	HYD. HOSE, 1/2" x 18"	_
	W	966810	CONNECTOR, O-RING	0
	N	28/6/8	FILTER BASE	<u></u>
	_	P19133	FILTER, TRANSMISSION	/ /
	ITEM	PART NO.	DESCRIPTION	REQ.
			ST. P	ST. PAUL,
	3	\(\frac{1}{2}\)	Engineering Co., Inc. 55	55121.
	JEFF	JEFF DAUB	S/N 101 THRU	
	DRAN	DRAWING TITLE		
	18	4 <i>NS/N/S</i>	TRANSMISSION FILTER STATE	a
	45.	ASSEMBLY	DBAWINGN	
	MODEL	054 422		2



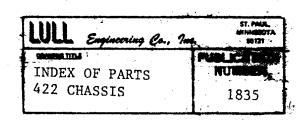


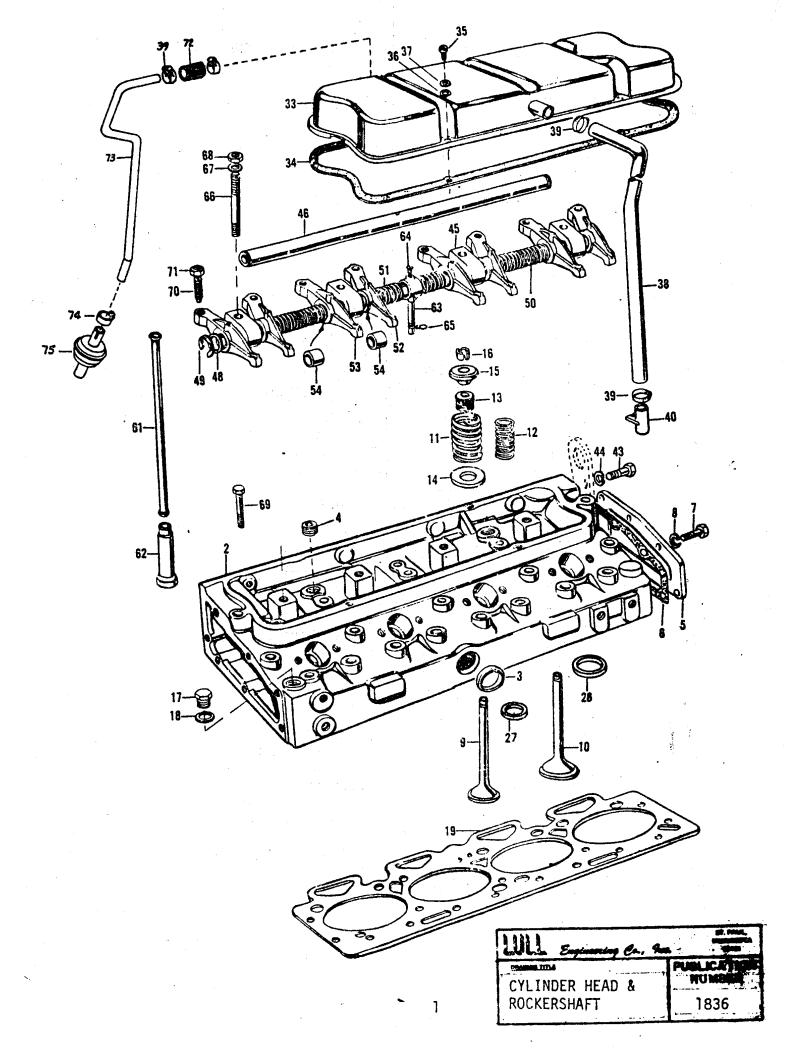




INDEX OF PARTS

ASSEMBLY	PAG	\$E
Cylinder Head & Rockershaft		
Cylinder Block		
Rings, Pistons, Connecting Rods & Bearing		
Camshaft & Timing Gears		
Crankshaft & Main Bearing		
Oil Pan, Pump & Filter		
Water Pump & Outlet		
Fuel Injection Lines		
Fuel Pump & Filter		
Transmission Case & Control Valve		
Gear Shift		
Gear Group		
Shaft & Clutch Group		
Torque Converter		
Differential Housing		
Differential Internal		
Front Axle		
Disc Brakes	•	
Differential Lock		
Parts Not Illustrated		39
Torque Converter		
* For S/N 169, 171-173, 175-177, 181, 182, 184 & 186 ONLY		





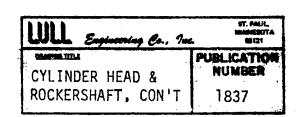
CYLINDER HEAD, COVER, VALVES AND ROCKERSHAFT

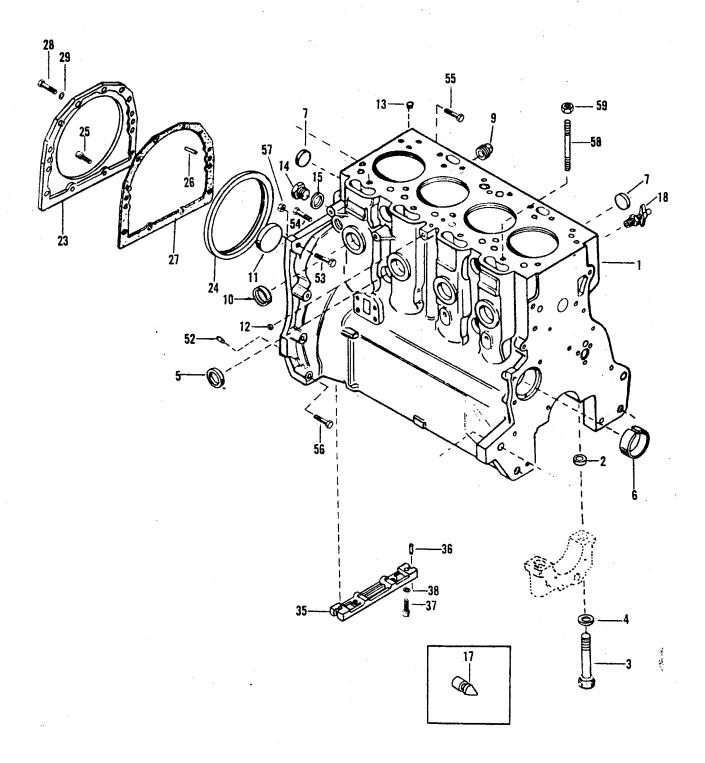
	* 1 9 th		
ITEM	PART NO.	DESCRIPTION	QTY.
1	P22051	Head Assembly, Cylinder (Incl. Items 3	1
		thru 18)	
. 3	P22006	Plug (1-1/4" Cup Type)	1
4	P22052	Plug (1/2" - 14 Hex., Sckt. Hd.)	2
5	P22053	Cover, Rear	1
6	P22169	Gasket, Rear Cover	1
7	Com'l.	Bolt (5/16 x 3/4" NF, Hex.)	6
8	Com'l.	Washer (5/16" Lock)	6
9	P22062	Valve, Intake (Std)	4
9	P22063	Valve, Intake (+.003")	x
9	P22064	Valve, Intake (+.015")	x
9	P22065	Valve, Intake (+.030")	x
10	P22066	Valve, Exhaust (Std.)	4
10	P22067	Valve, Exhaust (+.003")	x
10	P22068	Valve, Exhaust (+.015")	x
10	P22069	Valve, Exhaust (+.030")	, x
11	P22061	Spring, Valve (Outer)	8
12	P22060	Spring, Valve (Inner)	8
13	P22091 ·	Seal, Valve Stem	8
14	P22058	Washer, Valve Spring	8
15	P22057	Cap, Intake Valve Spring	8
16	P22056	Lock, Valve (Set of 2)	4
17	P22054	Plug, Top Face	1
18	P22055	Washer (5/8" Aluminum)	1
19	P22167	Gasket, Cylinder Head	1
27.	P22070	Insert (Intake)	" 4
28	P22071	Insert (Exhaust)	4
33*	P22072	Cover, Cylinder Head	1
34*	P22167	Gasket, Cylinder Head Cover	1
35	P22074	Screw, Cylinder Head Cover	4
36	Com'l.	Washer (1/4 x 9/16 x 1/16")	4
·· 37	Com'1.	Washer (1/4" Lock)	4
38	P22090	Pipe, Breather	1
39	P13613	Clamp, Hose	2
40	P22091	Bracket, Breather Pipe	1
43	Com'1.	Bolt (3/8 x 7/8" NF, Hex.)	4
44	Com'1.	Washer (3/8" Lock)	4
45	P22075	Bracket, Rockershaft	4
46*	P22076	Rockershaft	1
48	Com'1.	Washer (3/4 x 15/16 x 3/32")	2
49	P22078	Ring, Snap	2
50	P22079	Spring, Rockershaft (Long)	2 2
51	P22080	Spring, Rockershaft (Short)	2
52	P22081	Lever, Right Hand (Incl. Item 54)	4
53	P22082	Lever, Left Hand (Incl. Item 54)	4
54	P22083	Bushing, Lever	1
Ψ.			

ITEM	PART. NO.	DESCRIPTION	QTY.
61 62 63 64 65 66 67 68 69 69 70 71 72 73	P22084 P22085 P22086 P22087 P22088 Com'1. Com'1. Com'1. Com'1. P22089 Com'1. P22092 P22093 P22094	Rod, Push Tappet, Valve Oil Line, Rockershaft Screw (#10 - 32 x 7/16" Hex.) "O" Ring (1/4" I.D. x 1/4") Stud (7/16" NF x 2-1/2") Washer (7/16 x 7/8 x 3/32") Nut (7/16" NF, Hex., Lock) Bolt (1/2 x 4-1/8" NF, Hex.) Bolt (1/2 x 3-1/2" NF, Hex.) Bolt (1/2 x 4-15/16" NF, Hex.) Screw, Tappet Adjusting Nut (3/8" NF, Hex.) Hose, Breather Extension, Breather Pipe Clip	8 8 1 1 1 4 4 4 12 6 2 8 8 1 1
75	P22095	Breather	1

* For S/N 102 & 106 Use as Follows:

Item #33 P22073 Item #34 P22194 Item #46 P22077

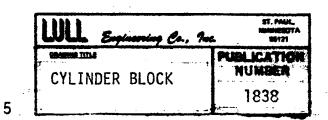


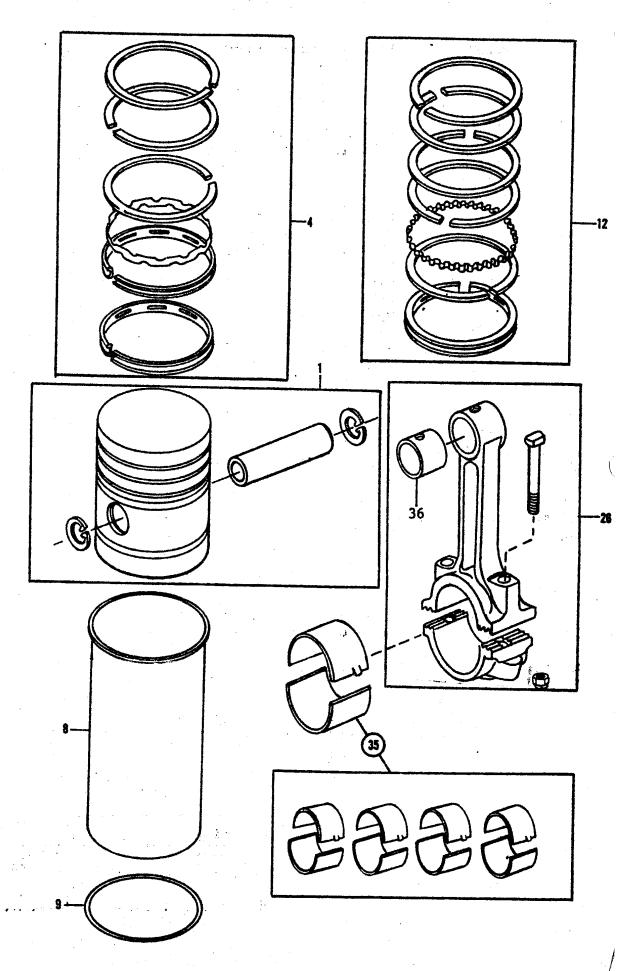


ITEM	PART NO.	DESCRIPTION	QTY.
1	P22002	Block Assembly (Short) See Note	1
2	P22003	Dowel, Main Bearing Cap	10
3	Com'l.	Bolt (5/8 x 3-3/4" NF, Hex.)	10
4	Com'l.	Washer, Bearing Cap Bolt	10
5	P22005	Plug (1-3/8" Cup Type)	4
6	P22004	Bushing, Camshaft	1
7	P22006	Plug (1-1/4" Cup Type)	6
9	P22012	Plug (3/4 - 14 Sq. Hd.)	4
10	P22007	Plug (1-1/2" Cup Type)	4
11	P22008	Plug, Camshaft Hole (3" Cup Type)	1
12	P22009	Plug (1/4" Cup Type)	1
13	P22010	Plug (5/16" Cup Type)	1
14	P22011	Plug (7/8" NF, Sckt. Hd.)	1
15	P22013	Washer (29/32 x 1-1/8 x 3/32" Copper)	1
17*	P22014	Pointer, Timing Pin	1
18	P22015	Drain, Cylinder Block	1
23	P22017	Housing, Rear Oil Seal	ī
24	P22018	Seal, Housing	1
25	Com'l.	Screw (5/16 x 1" NF, Sckt. Hd.)	
26	P22019	Dowel, Oil Seal Housing	2
27	P22192	Gasket, Housing to Block	1
28	Com'1.	Bolt (5/16 x 1" NF, Hex.)	10
29	Com'1.	Washer (5/16" Flat)	10
35	P22020	Bridge, Block to Pan	10
36	P22188	Gasket, Bridge	2
37	Com'l.	Screw (1/4 x 3/4" NF, Phil. Hd.)	
38	Com'1.	Washer (1/4" Flat)	2 2
52	Com'l.	Dowel, Engine to Transmission	2
53	Com'1.	Bolt (7/16 x 1-3/4" NC, Hex.)	1
54	Com'1.	Bolt (3/8 x 1-3/4" NF, Hex.)	
55	Com'1.	Bolt (7/16 x 2" NC, Hex.)	3
56	Com'1.	Bolt (7/16 x 2-1/4" NC, Hex.)	1
57	Com'1.	Nut (7/16' NC, Hex.)	5 1
58	P22021	Stud (1/2 x 4-1/2" NF)	2
59	Com'1.	Nut (1/2" NF, Hex.)	2
0,0	COM I.	nuc (1/2 Mr, Nex.)	4

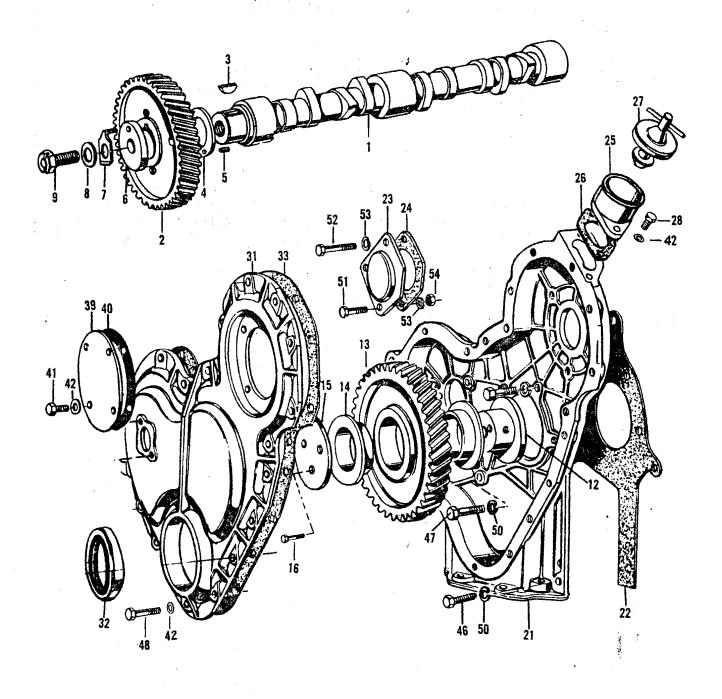
For S/N 102 & 106 Use P22015

NOTE: Short Engine includes Stripped Block, Pistons, Rings, Connecting Rods, Connecting Rod Bearings, Crankshaft and Crankshaft Bearings.





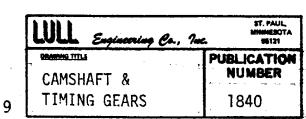
ITEM	PART NO.	DESCRIPTION	QTY.
1	P22022	Piston Assembly	4
4	P22023	Ring Set, Single Piston	4
, 8	P22025	Liner, Cylinder (Standard)	4
8	P22026	Liner, Cylinder (+.010")	4
8	P22027	Liner, Cylinder (+.040")	4
	P22028	Shim, Liner	4
12	P22024	Ring Set, Piston (Re-Ring)	4
26	P22029	Rod Assembly, Connecting	4
35	P22030	Insert Set, Connecting Rod Bearing (Std.)	1
35	P22031	Insert Set, Connecting Rod Bearing (010") 1
35	P22032	Insert Set, Connecting Rod Bearing (020"	
35	P22033	Insert Set, Connecting Rod Bearing (030"	•

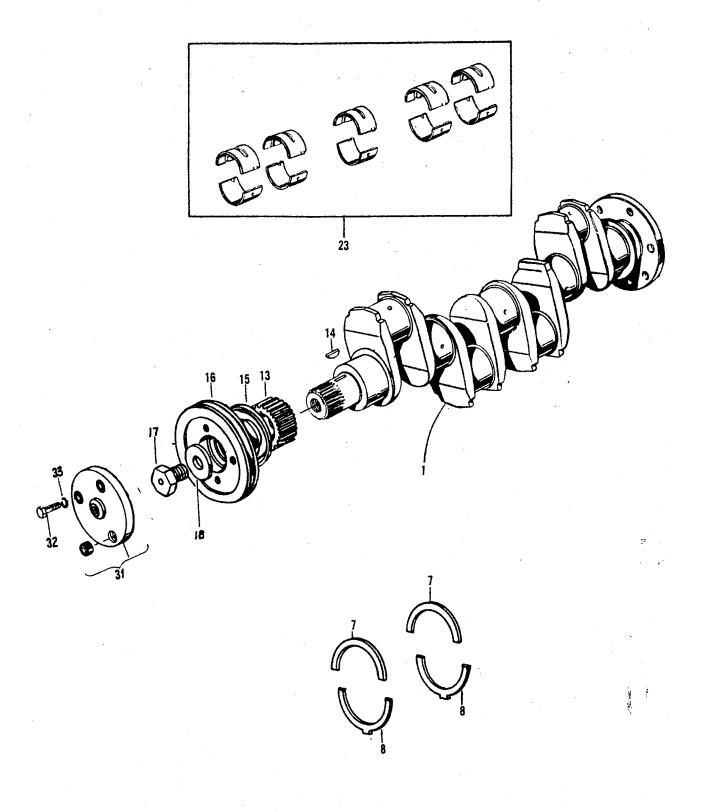


ITEM	PART NO.	DESCRIPTION	QTY.
1	P22096	Camshaft	1
2*	P22097	Gear, Camshaft Timing	1
3	P22044	Key, Gear to Camshaft	1
4	P22099	Washer, Gear to Camshaft	1
5	P22100	Dowel, Camshaft Washer	1
6	P22101	Washer, Timing Gear, Front	1
7	P22102	Washer, Tab	1
8	P22103	Washer, Retaining Bolt	1
9	P22104	Bolt, Gear Retaining	1
12	P22105	Hub, Idler Gear	1
13	P22106	Gear Assembly, Idler	1
15	P22107	Plate, Idler Gear	1
16	Com'1.	Bolt (3/8 x 2-1/2" NF, Hex.)	3
21	P22108	Housing, Timing Gear	1
22	P22180	Gasket, Timing Gear, Housing to Block	1
23	P22109	Plate, Hydraulic Pump Hole Cover	1
24	P22193	Gasket, Blanking Plate	1
25*	P22110	Filler, Oil	ī
26	P22189	Gasket, Oil Filler Housing	1
27*	P22112	Cap, Oil Filler	1
28	Com'1.	Bolt (5/16 x 3/4" NF, Hex.)	2
31	P22114	Cover, Timing Gear Housing (Incl. Item 32)	1
32	P22115	Seal, Oil	1
33	P22182	Gasket, Cover to Housing	1
39	P22116	Cover, Inspection	1
40	P22181	Gasket, Inspection Cover	1
41	Com'1.	Bolt (5/16 x 1/2" NF, Hex.)	4 .,
42	P22117	Washer $(5/16 \times 9/16 \times 1/16" \text{ Aluminum})$	10
46	Com'l.	Bolt (5/16 x 7/8" NF, HEx.)	22
47	Com'1.	Bolt (5/16 x 1" NF, Hex.)	1
48	Com'1.	Bolt (5/8 x 2-1/2" NF, Hex.)	4
50	Com'1.	Washer (5/16" Lock)	23
51	Com'1.	Bolt (3/8 x 1-3/4" NC, Hex.)	1
52	Com'1.	Bolt $(3/8 \times 2-1/2" \text{ NC, Hex.})$	2
53	Com'1.	Washer (3/8" Lock)	3
54	Com'l.	Nut (3/8" NC, Hex.)	1
			\$. \$

For S/N 102 & 106 Use as Follows:

Item #2 P22098 Item #25 P22111 Item #27 P22113

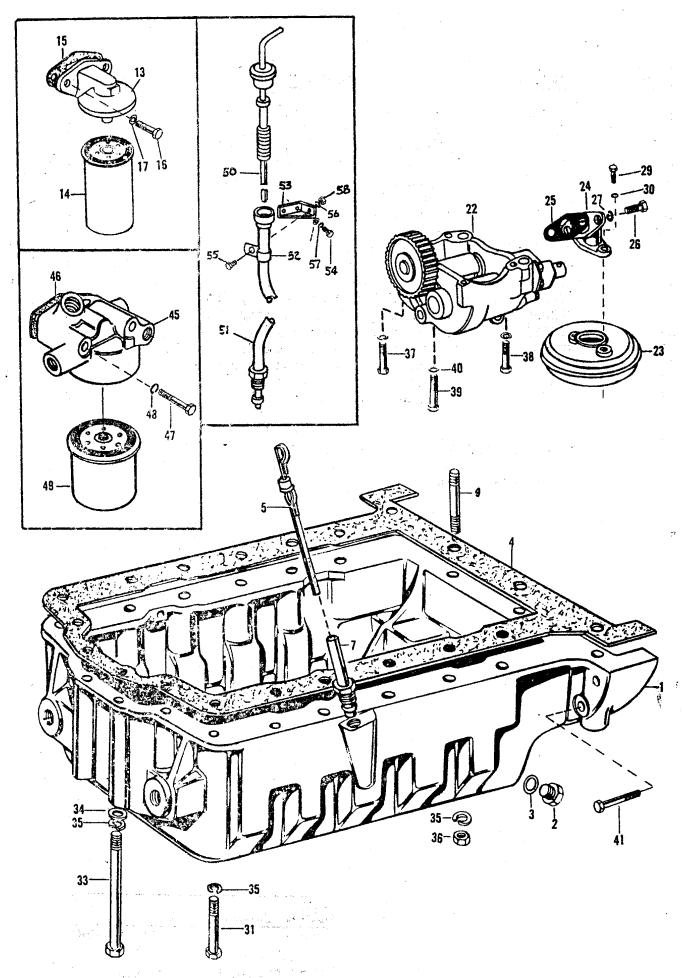




ITEM	PART. NO.	DESCRIPTION	QTY.
1	P22034	Kit, Crankshaft and Bearings	1
7	P22039	Washer, Thrust, Top (Std.)	2
7	P22040	Washer, Thrust, Top (+.007")	X
· 8	P22041	Washer, Thrust, Bottom (Std.)	2
8	P22042	Washer, Thrust, Bottom (+.007")	x
13	P22043	Gear, Crankshaft	1
14	P22044	Key, Gear	1
15*	P22045	Flange, Thrower	1
16*	P22047	Pulley, Crankshaft	1
17	P22049	Bolt, Pulley	1
18	P22050	Washer, Bolt	1
23	P22035	Insert Set, Main Bearing (Std.)	1
23	P22036	Insert Set, Main Bearing (010")	1
23	P22037	Insert Set, Main Bearing (020")	1
23	P22038	Insert Set, Main Bearing (030")	1
31	P22338	Adapter, Propshaft to Crankshaft Pulley	1
32	Com'l.	Bolt (3/8 x 1-1/4" NC, Hex.)	4
33	Com'l.	Washer (3/8" Lock)	4

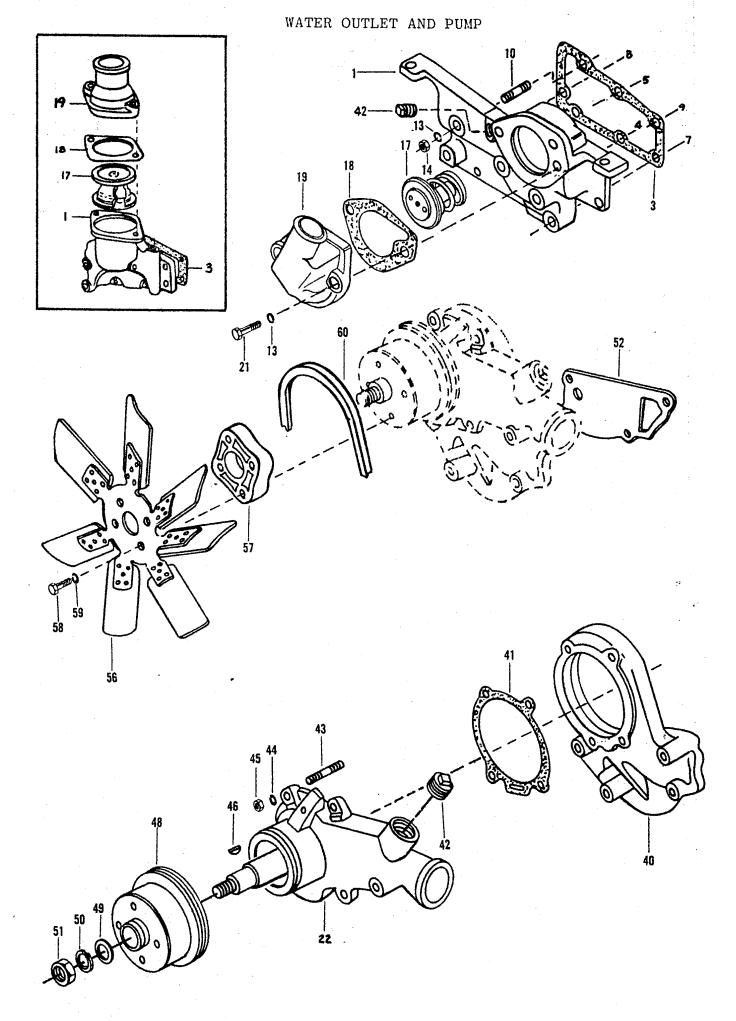
^{*} For S/N 102 & 106 Use as Follows:

Item #15 P22046 Item #16 P22048



ITEM	PART NO.	DESCRIPTION	QTY.
· .			
1	P22118	Pan, Oil	1
2	P22119	Plug, Pan	- 1
3	P22166	Gasket, Plug	1
4	P22183	Gasket, Oil Pan	1
5	P22120	Dipstick, Oil Level	1
7	P22122	Tube, Dipstick	1
9	P22131	Stud (5/16" NF x 3-15/16")	2
13	P22126	Head, Filter	1
14	P20995	Filter, Oil	1
15	P22191	Gasket, Filter	1
16	Com'1.	Bolt $(7/16 \times 1/-1/4" \text{ NF, Hex.})$	2 2
17	Com'l.	Washer, Bolt	
22	P22128	Balancer Assembly	1
23	P22129	Strainer Assembly, Oil	1
24	P22130	Connection, Strainer	1
25	P22190	Gasket, Connection	1
26	Com'1.	Screw $(5/16 \times 2-1/4" \text{ NF, Hex.})$	2
27	Com'1.	Washer (5/16" Lock)	2 2 2
29	Com'1.	Bolt $(1/4 \times 5/8" \text{ NF, Hex.})$	2
30	Com'1.	Washer (1/4" Lock)	2
31	Com'1.	Bolt $(5/16 \times 3-1/4" \text{ NF, Hex.})$	12
33	Com'1.	Bolt $(5/16 \times 5-1/2" \text{ NF, Hex.})$. 6
34	Com'1.	Washer $(5/16 \times 5/8 \times 5/64")$	7
35	Com'1.	Washer (5/16" Lock)	20
36	Com'l.	Nut (5/16" NF, Hex.)	2
3 7	Com'1.	Bolt $(3/8 \times 2-1/2" \text{ NF, Hex.})$	2
38	Com'1.	Bolt (3/8 x 3" NF, Hex.)	1
39	Com'1.	Bolt (3/8 x 5-1/4" NF, Hex.)	1
40	Com'1.	Washer (3/8" Lock)	4
41	Com'1.	Bolt $(7/16 \times 2-5/8" \text{ NC, Hex.})$	4 "
41	Com'1.	Bolt $(7/16 \times 1-3/4" \text{ NC, Hex.})$	2
	For S/N 102 &	106 only, use as follows for oil filter & dip	stick.
45	P22127	Head Assembly, Filter	1
46	P22195	Gasket, Head to Block	ī
47	Com'1.	Bolt, Filter Head to Block (7/16 x 4-1/2" NF,	
48	Com'1.	Washer, Bolt (7/16" Lock)	2
49	P20995	Filter (Spin-On)	
50	P22121	Dipstick Assembly	1 1
51	P22123	Tube Assembly, Dipstick	1
52	P22124	Clip, Dipstick Tube	
53	P22125	Bracket, Dipstick Tube Support	1 1
54	Com'1.	Bolt, Bracket $(1/4 \times 5/8")$ NF, Hex.)	2
55	Com'1.	Bolt, Tube Support (1/4 x 5/8" NF, Hex.)	1
56	Com'1.	Washer, Tube Support (1/4 x 9/16 x 1/16")	2
57	Com'1.	Washer (1/4" Lock)	3
58	Com'1.	Nut, Bolt (1/4" NF, Hex.)	* . 1

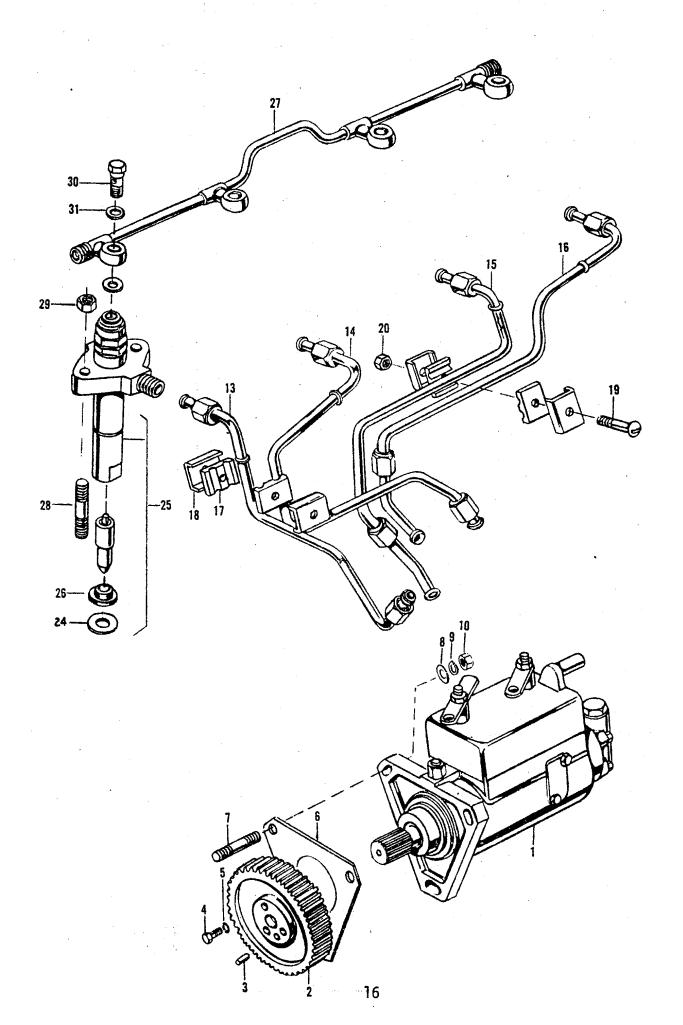
WLL Eyemey Ca. 1	ST. PAUL, MINIMESUTA ML 95123
OIL PAN PUMP, &	PUBLICATION NUMBER
FILTER	1842



		•	
ITEM	PART NO.	DESCRIPTION	QTY.
1*	P22132	Body, Water Outlet	1
3	P22174	Gasket, Outlet Body	1 1
4	Com'1.	Bolt (5/16 x 7/8" NF, Hex.)	2
5	Com'l.	Bolt (5/16 x 2-1/2" NF, Hex.)	4
6	Com'l.	Washer (5/16" Lock)	3
8	Com'1.	Bolt (3/8 x 1-3/4: NF, Hex.)	
9	Com'l.	Bolt (3/8 x 2-1/2" NF, Hex.)	1 1
10	Com'1.	Stud (3/8 x 2-9/16" NF)	1
13	Com'l.	Washer (3/8" Lock)	6
14	Com'1.	Nut (3/8" NF, Hex.)	1
17	P22134	Thermostat	1
18*	P22175	Gasket, Thermostat Housing	1
19*	P22135	Connection, Thermostat Housing	1
21	Com'1.	Bolt (3/8 x 1-1/2" NF, Hex.)	2
22	P22137	Pump Assembly	1
40	P22138	Body, Rear Half	1
41	P22184	Gasket, Body Halves	1
42	P22052	Plug (1/2" P.T. Sq. Hd.)	1
43	P22139	Std (5/16" x 1-3/8" NF)	4
44	Com'1.	'Washer (5/16" Lock)	4
45	Com'1.	Nut (5/16" NF, Hex.)	4
46	P22140	Key, Shaft	1
48	P22141	Pulley, Pump and Fan Drive	1
49	Com'l.	Washer (5/8" Flat)	1
50	Com'1.	Washer (5/8" Lock)	1
51	Com'l.	Nut (5/8" NF, Hex.)	ī
52	P22185	Gasket, Pump to Block	1 .,
56	P22142	Fan, Cooling	1 "
57	P22143	Extension, Pulley	î
58	Com'l.	Bolt (5/16 x 1-3/4" NF, Hex.)	4
59	Com'1.	Washer (5/16" Lock)	4
60	P20867	Belt	1
			- .

* For S/N 102 & 106 Use as Follows:

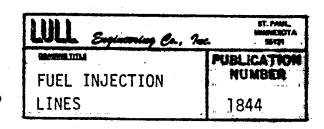
Item #1 P22133 Item #18 P22196 Item #19 P22136

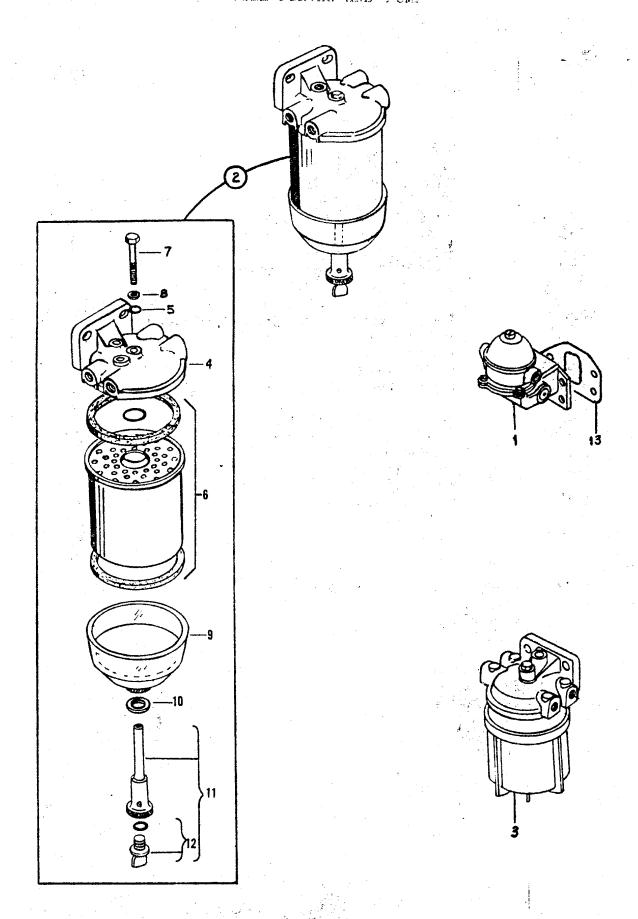


ITEM	PART NO.	DESCRIPTION	QTY.
1*	P22144	Dump Accombly Injection	
2	P22146	Pump Assembly, Injection Gear, Pump Drive	1
3	P22147	Dowel, Gear	. 1
4	Com'1.	•	1
5	Com'1.	Bolt (5/16 x 3/4" NF, Hex.) Washer (5/16" Lock)	3
6	P22187		3
7	P22139	Gasket, Injection Pump	1
8	Com'1.	Stud (5/16" NF x 1-3/8")	3
9		Washer (5/16" Flat)	3 3
10	Com'1.	Washer (5/16" Lock)	
13*		Nut (5/16" NF, Hex.)	3
14*	P22148	Line Assembly, Injection, #1 Cylinder	1
	P22149	Line Assembly, Injection, #2 Cylinder	1
15*	P22150	Line Assembly, Injection, #3 Cylinder	1
16*	P22151	Line Assembly, Injection, #4 Cylinder	• 1
17	P22156	Damper, Injection Lines	4
18	P22157	Plate, Damper	4
19	Com'1.	Screw (#10 - 32 x 1" Rd. Hd. S1td.)	2
20	Com'1.	Nut	2
24	P22165	Washer, Injection Nozzle	2
25*	P22158	Injector	4
26	P22164	Shield, Injector	4
27	P22160	Line, Leak-Off	1
28	7 22161	Stud (5/16" NF x 1-9/16")	8
29	Com'1.	Nut (5/16" NF, Hex.)	8
30	P22162	Bolt (Banjo)	4
31	P22163	Washer	8

* For S/N 102 & 106 Use as Follows:

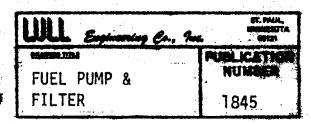
Item	#1	P22145
Item	#13	P22152
Item	#14	P22153
Item	#15	P22154
Item	#16	P22155
Item	#25	P22159





ITEM	PART NO.	DESCRIPTION	QTY.
1	P22200	Fuel Pump Assembly	1
2*	P22201	Fuel Filter Assembly	1
3	P22203	Pre Filter Assembly (Water Trap)	1
4 5 6* 7 8 9 10 11 12	P22220 P22221 P22001 Com'1. Com'1. P22222 P22223 P22224 P22225 P22186	Head, Fuel Filter "O" Ring, Head Bolt Seal Filter Element w/Gasket & "O" Ring Bolt (1/4 x 2" NC, Hex.) Washer (1/4" Flat) Glass Bowl Rubber Washer Stud (Incl. Item 12) Plastic Screw w/Rubber Washer Gasket, Fuel Pump	1 1 1 1 1 1 1 1

^{*} Use P22202, Fuel Filter Assembly and P21001, Fuel Filter Element for S/N 102 & 106 only (Filter not shown)



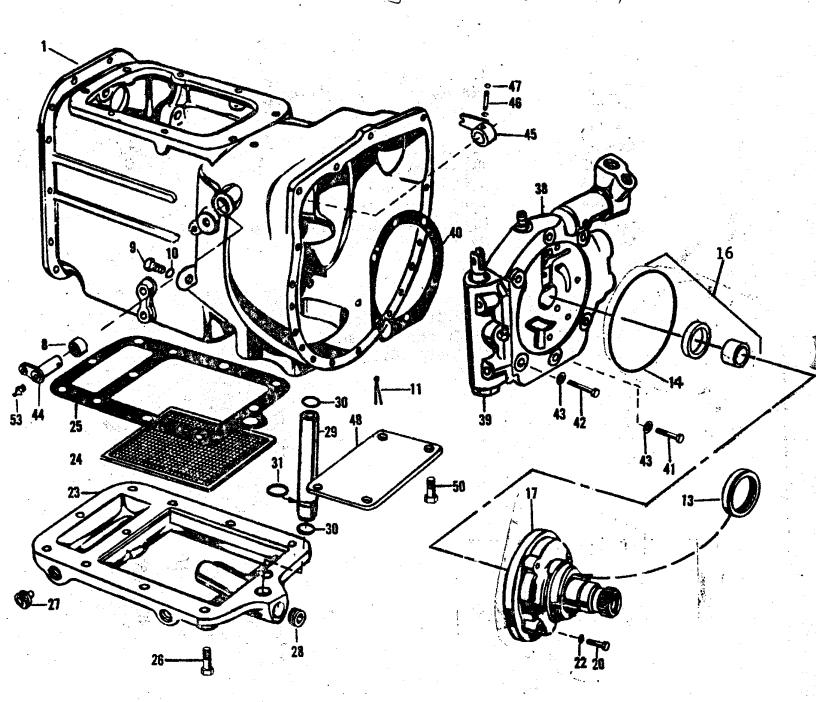
TRANSMISSION CASE AND VALVE

Funk Reverser Transmission and gear box

C-3 Tranny

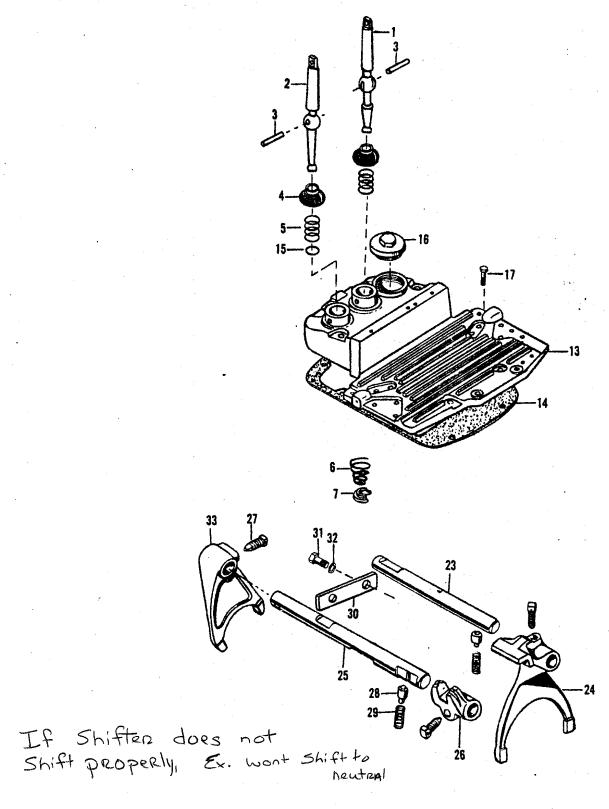
80w-90 in gear box

Chack TRAnny Cold, engine off, Level surface



This complete Assembly use C-3

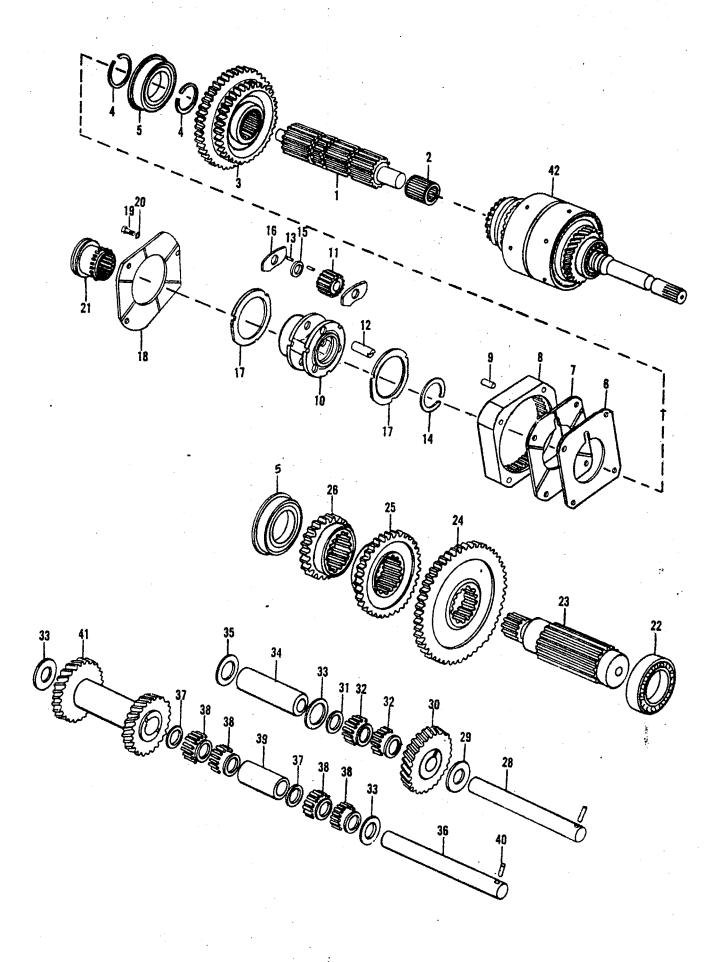
ITEM	PART NO.	DESCRIPTION	QTY.
1	P22226	Case Assembly	•
8	P22227	Bearing (Needle)	1
9	P22228	Cap, Filler	2
10	P22229	"O" Ring, Filler Cap	1
11	Com'1.	Pin (3/16 x 1" Cotter)	1
12	P22230	Pump Assembly, Oil (Incl. Item 13)	1
13	P22231	Seal	1
14	P22248	Gasket, Oil Pump	1
. 16	P22607	Pump Kit	1
17			1
20	Com'1.	Bolt (5/16 x 1-3/4" NC, Hex.)	А
. 22	Com'1.	Washer (5/16" Sealing)	4
23	P22234	Sump, Oil	4 1
24	P22235	Screen, Oil Sump	1
25	P22249	Gasket	1
26	Com'1.	Bolt (7/16 x 1-3/8" NC, Hex.)	11
27	P22236	Plug, Drain	1
28	P22237	Plug, Oil Sump	2
29	P22238	Tube, Suction	1
30	P22239	"O" Ring, Tube	2
31	P22240	"O" Ring	1
38	P22241	Distributor Assembly	1
39	P22242	Valve Assembly	1
40	P22250	Gasket, Oil Distributor	1
41	Com'1.	Bolt (3/8 x 2" NC, Hex.)	.,4
42	Com'1.	Bolt (3/8 x 2-1/2" NC, Hex.)	2
43	Com'l.	Washer (3/8" Sealing)	6
44	P22243	Shaft	1
45	P22244	Lever	1
46	P22245	Pin, Headless	1
47	P22246	Ring, Snap	2
48	P22247	Cover	1
50	Com'l.	Bolt (5/8 x 1" NC, Hex.)	2
53	P15272	Grease Fitting (1/4" Drive)	. 1
		그렇게 하는 사람들은 사람들이 가득하게 되었다. 그는 사람들은 사람들은 사람들이 되었다.	/g 🔭



Internally: Bent Forks or unsyncronized Rails

Externally: Make All external Adj. first.

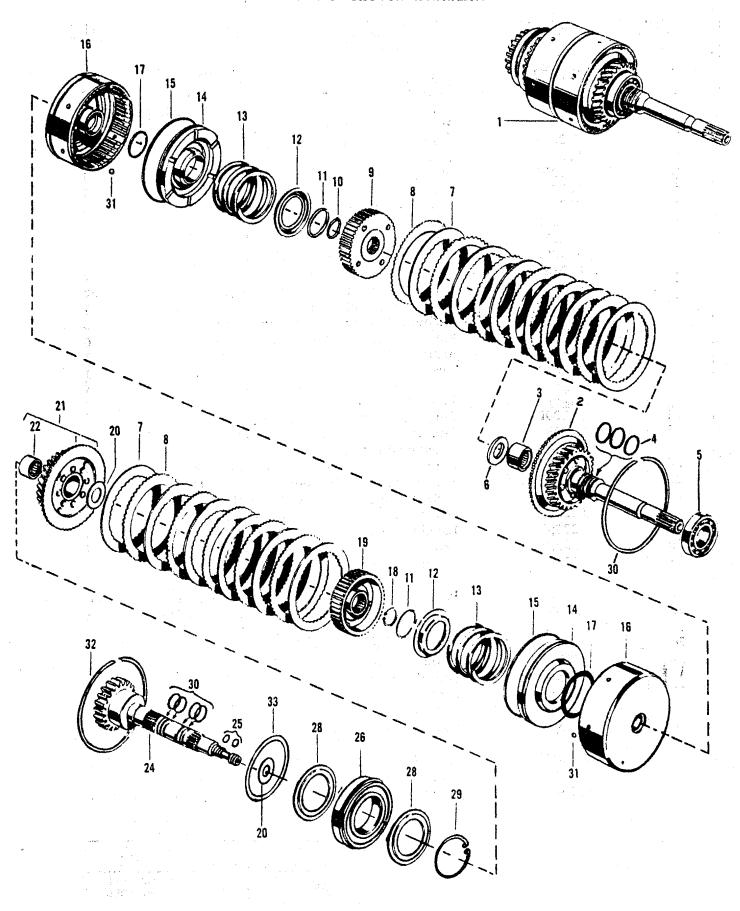
ITEM	PART NO.	DESCRIPTION	QTY.
1	P22252	Lever, Gear Shift	1
2	P22253	Lever, Planetary Shift	1
3	P22254	Pin, Lever	1 2
4	P22255	Cover, Lever	2
5	P22256	Spring, Shifter Boot	2
6	P22257	Spring, Gear Shifter	4
7	P22258	Seat, Gear Shift Lever Spring	1
13	P22261	Support, Gear Shift Lever	1
14	P22251.	Gasket, Support	1
15	P22259	"O" Ring, Shift Lever	1
16	P22260	Plug, Filler (2-5/16" Dia.)	1
17	Com'l.	Bolt, Support to Transmission	2
		$(7/16 \times 1-1/4" NC, Hex.)$	2
17	Com'1.	Bolt, Support to Transmission	2
		(7/16 x 2" NC, Hex.)	2
17	Com'1.	Bolt, Support to Transmission	2
/		$(7/16 \times 3" NC, Hex.)$	2
23	P22263	Rail, Intermediate and High	1
24	P22264	Fork, Intermediate and High	1 1
25	P22265	Rail, Shifter, Planetary	1
26	P22267	- Selector, Planetary	1
27	P22271	Screw, Fork (3/8" NF, Dog Pt. Sw. Hd.)	3
28	P22268	Plunger, Shift Rail	1
29	P22269	Spring, Shifter Rail	
30	P22270	Plate, Gear Shift Lever Stop	2 2
31	Com'l.	Bolt, Stop Plate (3/8 x 3/4" NC, Hex.)	2
32	Com'1.	Washer, Stop Plate (3/8" Lock)	2
33	P22266	Fork, Planetary Shift	1
			-



ITE	<u>M</u>	PART NO.	DESCRIPTION	QTY.
1		P22272	Shaft, Main (22 Teeth, 18 Splines)	
2		P22273	Regging Dilot Main Chaft (Dallan)	1
3		P22274	Bearing, Pilot Main Shaft (Roller)	1
A.j			Gear, Main Shaft, Intermediate and High (47 - 30 Teeth)	1
4		P22275		
5		P22276	Ring, Snap, Rear Bearing (External) Bearing, Ball	2
6		P22277	Shim, Planetary	2
7		P22278	Plate, Front Cover	1
8		P22279	Gear, Planetary Ring	1.
9		P22280	Pin, Dowel (3/8 x 1-1/8")	1
10		P22281	Carrier, Planetary Pinion	2
11		P22282	Pinion, Planetary	1
12		P22283	Shaft, Planetary Pinion	3 3
13	106.1	P22284	Roller, Pinion (16 Per Path)	
14		P22285	Ring, Snap (External)	96
15	\$.	P22286	Washer, Roller, Planetary Pinion	1
16		P22287	Washer, Pinion Thrust	3
17		P22288	Washer, Gear Thrust	6
18		P22289	Plate, Rear Cover	2
19		Com'1.	Bolt (3/8 x 2-7/8" NC, Hex.)	· 1
		Com'1.	Washer (3/8" Lock)	3
20 21		P22290	Coupler, Planetary Shift	1
22		P22291	Bearing, Countershaft, Front (Ball)	1
23		P22292	Countershaft (17 - 21 Teeth)	1
24		P22293	Gear, Countershaft Driven (45 Teeth)	. 1
25		P22294	Pinion, High (39 Teeth - 17 Splines)	- 1 · · ·
26		P22295	Pinion, Intermediate (22Teeth - 17 Splines)	1
28		P22296	Shaft, Idler Gear (3/4 x 8-25/32")	ī
29	s.	P22297	Washer, Idler Gear (Inner)	1
30		P22298	Gear, Idler (28 Teeth)	î.
31		P22299	Spacer, Bearing, Idler Shaft	3
		` \	$(3/4 \times 1-7/64 \times 1/16")$	•
32		P22300	Bearing, Idler Shaft & Countershaft	100
33		P22301	Washer, Thrust, Idler & Countershafts	3
		en e	$(57/64 \times 1-3/4 \times 1/16")$	
34		P22302	Spacer, Idler Gear	1
35		P22303	Washer, Spacer, Idler Gear	. 1
36		P22304	Countershaft (13/16 x 8-25/32")	1
37		P22305	Washer, Countershaft Bearing	6
			$(55/64 \times 1-5/32 \times 1/16")$	a
39		P22306	Spacer, Countershaft Bearing	1
40			$(7/8 \times 1-1/8 \times 3-1/16")$	
40	•	P10375	Pin, Shaft (1/4 x 1" Roll)	2
41		P22307	Gear (25-27 Teeth)	1
42		P22308	Shaft and Clutch Assembly	1

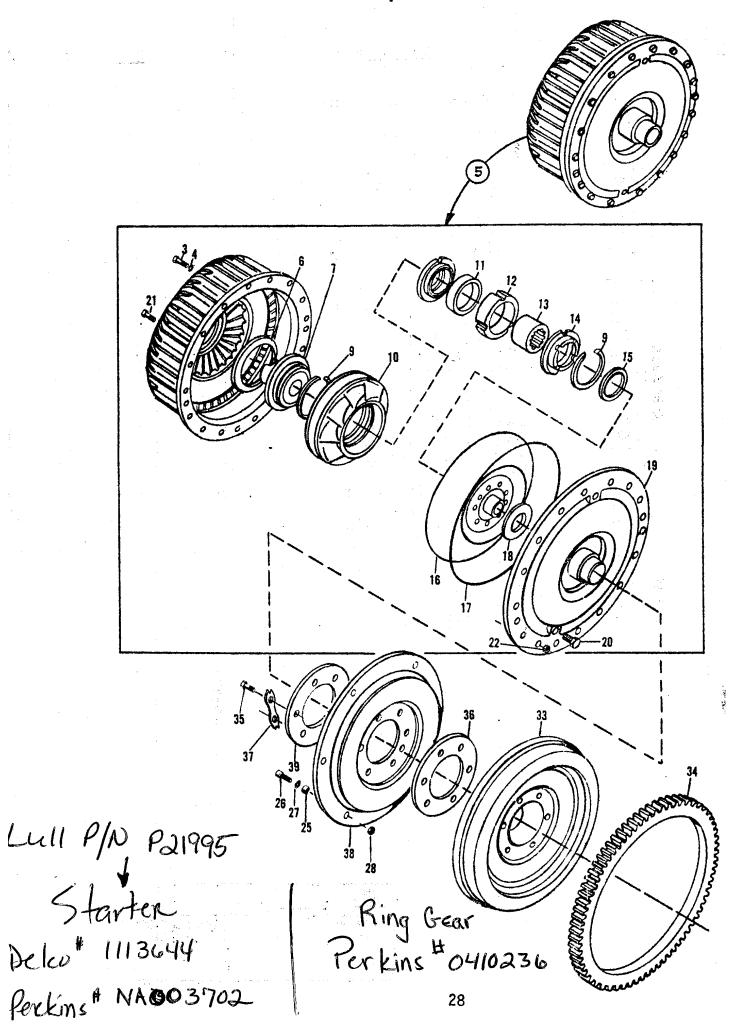
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INTERNAL	1848

Funk Reverser SHAFT AND CLUTCH ASSEMBLY

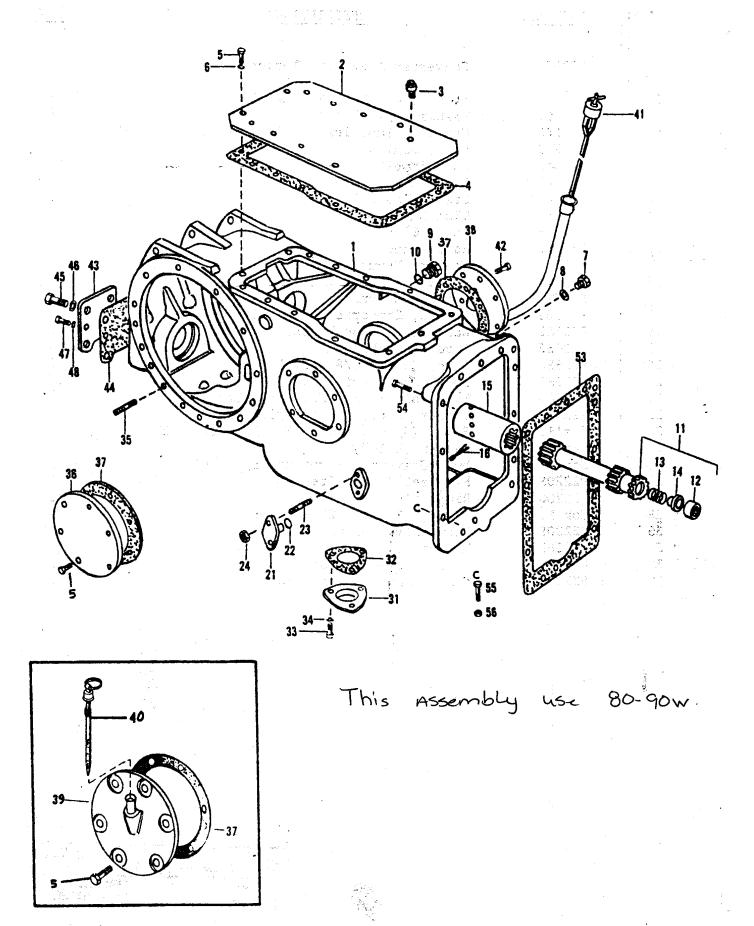


ITEM	PART NO.	DESCRIPTION	QTY.
1	P22308	Shaft and Clutch Access	
	,	Shaft and Clutch Assembly	1
2	P22309	Shaft, Input Gear (Incl. Item 3,4,5)	
3	P22310	Bearing (Needle)	1
4	P22311	Ring $(1-3/8 \times 3/32'')$	1
5	P22312	Bearing, Input Shaft	3
6	P22301	Washer, Thrust	1
7	P22313	Plate (Internal Spline)	1
8	P22314	Plate (External Spline)	12
9	P22315	Hub (45 Ext. and 20 Int. Teeth)	12
10	P22316	Ring, Snap	1
11	P22317	Ring, Snap	1
12	P22318	Retainer, Clutch Spring	2
13	P22319	Spring, Clutch	2
14	P22320	Piston, Clutch	2
15	P22321	"O" Ring, Seal	2
16	P22322	Cylinder (Incl. Item 17)	2
17	P22323	"O" Ring	2
18	P22324	Ring, Snap	1
19	P22325	Hub, Clutch (45 Ext. and 22 Int. Teeth)	1
20	P22326	Washer, Thrust	1
21	P22327	Gear (Incl. Item 22)	2
22	P22328	Bearing	1
24	P22329	Shaft Assembly, Output (Incl. Item 25)	1
25	P22330	Ring $(5/8 \times 3/32")$	1
26	P22331	Bearing, Output Shaft	1
28	P22332	Slinger	1
29	P22333	Ring, Snap	2
30	P22334	Ring (1-1/16 x 3/32")	1
31	P22335	Ball (1/4" Dia.)	4
32	P22336	Ring, Snap	2 2
33	P22337	Shim $(3-15/16 \times 4-5/8 \times 1/64")$	2 A/R

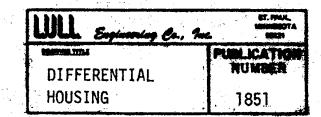
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GROUP		1849

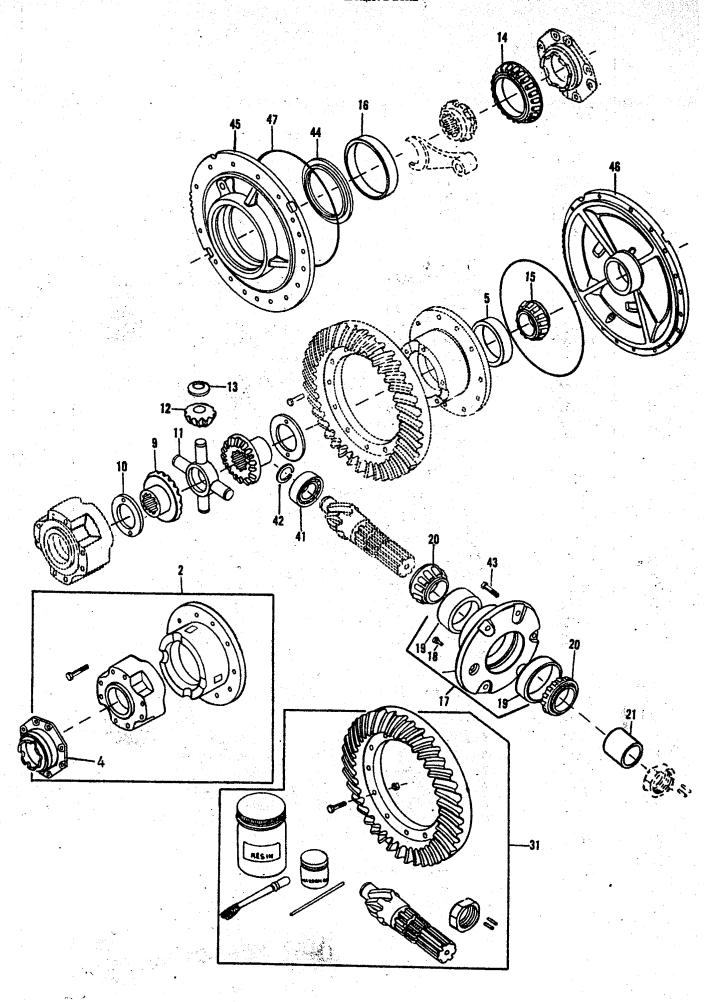


ITEM	PART NO.	DESCRIPTION	QTY.
1	P22339	Converter Assembly, Torque	1
3	Com'1.	Bolt (1/4 x 5/8" NC, Hex.)	8
4	Com'1.	Washer (1/4" Lock)	8
5	P22340	Housing, Impeller (Incl. Items 3, 4, 6 & 7)	1
6	P22341	Ring, Sealing	1
7	P22342	Hub, Impeller	1
9	P22343	Ring, Snap	2
10	P22344	Stator Assembly	1
11	P22345	Clutch Assembly	1
12	P22346	Race, Outer	1
13	P22347	Race, Inner	1
14	P22348	Washer, Thrust	2
15	P22349	Washer, Thrust	2
16	P22350	Turbine Assembly	1 , 1
17	P22351	Gasket, Converter Cover (Outer)	1
18	P22352	Washer, Turbine Thrust	1
19	P22353	Cover Assembly	1
20	P22354	Plug, Cover (1/8 - 27 P.T.)	2
21	P22355	- Bolt, Cover Retaining	18
22	Com'1.	Nut, Bolt (5/16" NF, Hex., Lock)	18
25	P22356	Spacer, Converter to Drive Plate	6
26	Com'1.	Screw (5/16 x 1-1/8" NF, Hex. Skt. Hd.)	6
27	Com'1.	Washer (5/16")	6
28	Com'1.	Nut, Converter Mounting (5/16" NF, Hex., Lock)	6
33	P22205	Flywheel (Incl. Item 34)	7 1
34	P22206	Ring, Starter	1
3 5	Com'l.	Bolt (1/2 x 1-1/2" NF, Hex.)	6
36	P22208	Shim, Flywheel to Crankshaft	2
37	P22209	Tabwasher	3
38	P22204	Plate, Converter Drive	1
39	P22207	Plate, Drive Plate Retaining	1

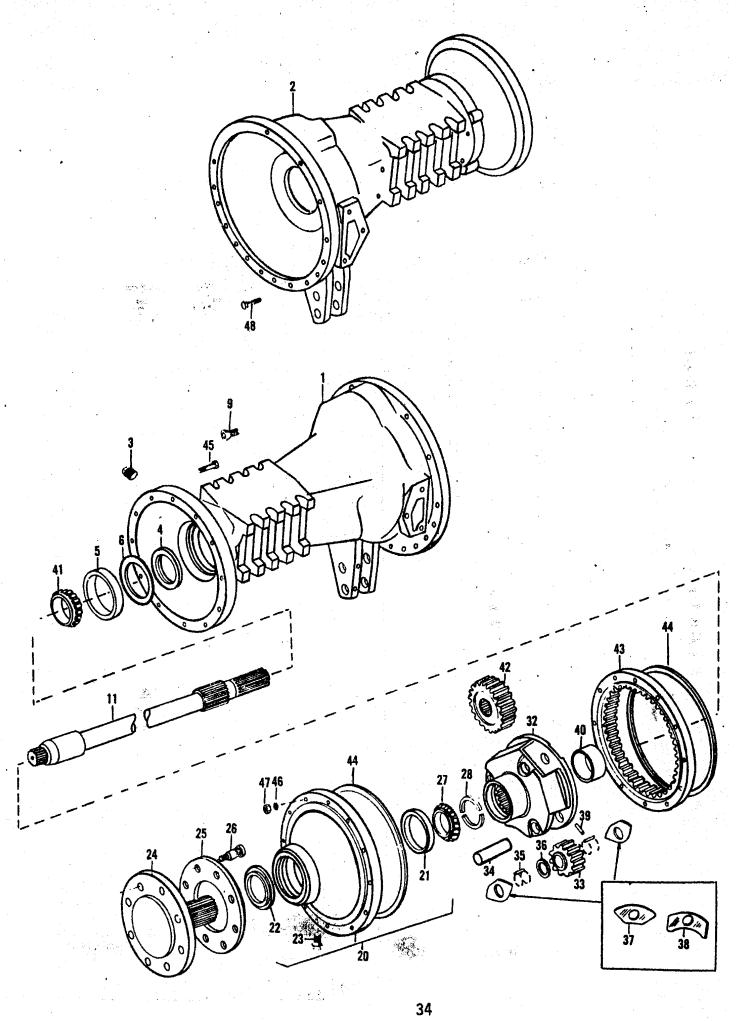


ITEM	PART NO.	DESCRIPTION	QTY.
1	P22360	Housing, Differential	7
2	P22362	Cover, Differential Housing	
3	P22363	Breather Assembly	Ţ
4	P22361		1
5	Com'1.	Gasket, Differential Cover	1
	COM 1.	Bolt, Cover to Differential Housing	25
6	C12	(7/16 x 7/8" NC, Hex.)	
0	Com'l.	Washer, Cover to Differential Housing	13
-	2000	(7/16" Lock)	
7	P22364	Plug, Housing Drain	1
8	P22365	Washer, Plug	1
9	P22366	Plug, Housing	1
10	P22367	Washer, Plug	2
11	P22370	Shaft Assembly, Rear Drive	1
		(Incl. Items 12, 13 & 14)	,*
12	P22373	Bearing, Shaft	1
13	P22371	Spring, Shaft	1
14	P22372	Abutment, Shaft	1
15	P22369	Coupling, Rear Drive	Ţ
16	Com'l.		1
21	P22377	Cotter Pin (3/16 x 2-1/2")	1 .
22	P22378	Pin, Pump Support	2
23	P22379	"O" Ring, Pump Support Pin	2
24		Stud (5/16 NC - NF x 1-1/16")	4
31	Com'1.	Nut (5/16" NF, Hex.)	4/.
	P22380	Housing Cover, Bottom	1
32	P22381	Gasket, Cover Plate	1
33	Com'1.	Bolt (5/16 x 5/8" NC, Hex.)	3
34	Com'1.	Washer (5/16" Lock)	3
35	P22388	Stud, Housing (1/2" NC - NF x 2-3/8")	30
36	P22382	Side Cover, Housing, Plain	1
37	P22383	Gasket, Cover	2
3 8	P22385	Side Cover and Tube Assembly, Oil Filler	1
39	P22384	Side Cover with Dipstick Access	1 .
40	P22386	Dipstick, Oil Level (Short)	1
41	P22387	Dipstick, Oil Level (Long)	1
43	P22374	Cover	1
44	P22375	Gasket, Cover	1
45	Com'1.		T
46	Com'1.	Bolt, Cover (1/2 x 7/8" NC, Hex.)	4
47	the second secon	Washer, Cover Bolt (1/2" Lock)	4
48	Com'1.	Bolt, P.T.O Cover (716 x 7/8" NC, Hex.)	2
	Com'1.	Washer, Cover Bolt (7/16" Lock)	2
53	P22368	Gasket, Differential Housing to Transmission	1
54	Com'1.	Bolt (7/16 x 2-1/4" NC, Hex.)	5
55	Com'1.	Bolt (7/16 x 1-7/8" NF, Hex.)	11
56	Com'1.	Nut (7/16" NF, Hex.)	11
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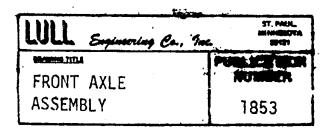
ITEM	PART NO.	DESCRIPTION	QTY.
4	P22595	Cap, Coupling	1
2	P22389	Case Assembly (Matched) Incl. Item 4	1
5	P22390	Cup, Bearing, Case	1
9	P22391	Gear, Side (14 Teeth, 39 Splines)	2
10	P22392	Washer, Thrust (3 x 4-5/32 x 1/16")	2
11	P22393	Cross, Pinion	1
12	P22394	Pinion (3-25/64" Dia.)	4
13	P22395	Washer, Thrust (1 x 2" Cupped)	4
14	P22396	Cone, Case (Left)	1
15	P22397	Cone, Case (Right)	1
16	P22398	Cup, Bearing, Carrier Plate (Left)	1
17	P22399	Sleeve Assembly, Drive Pinion Bearing	1
18	P22400	Pin, Dowel, Sleeve Locating	1
19	P22401	Cup, Bearing	2
20	P22402	Cone, Driving Pinion Bearing	2
21	P22403	Spacer, Pinion (3/4 x 2-3/8 x 2-3/8")	1
31	P22404	Gear and Pinion (Matched Set)	1
41	P22405	Bearing, Pinion Pilot	1
42	P22406	Ring, Snap, Bearing Retaining	1
43	Com'1.	Bolt, Bearing Sleeve (9/16 x 1-1/4" NC,	Hex) 6
44	P22407	Shim, Bearing Pre-Load (0.29"031")	x
44	P22408	Shim, Bearing Pre-Load (.034"036")	x :
44	P22409	Shim, Bearing Pre-Load (.039"041")	x
44	P22410	Shim, Bearing Pre-Load (.044"046")	x
44	P22411	Shim, Bearing Pre-Load (.049"051")	x
45	P22412	Plate, Differential Carrier (Left)	1
46	P22413	Plate, Differential Carrier (Right)	1
47	P22414	"O" Ring, Carrier Plate	- 4

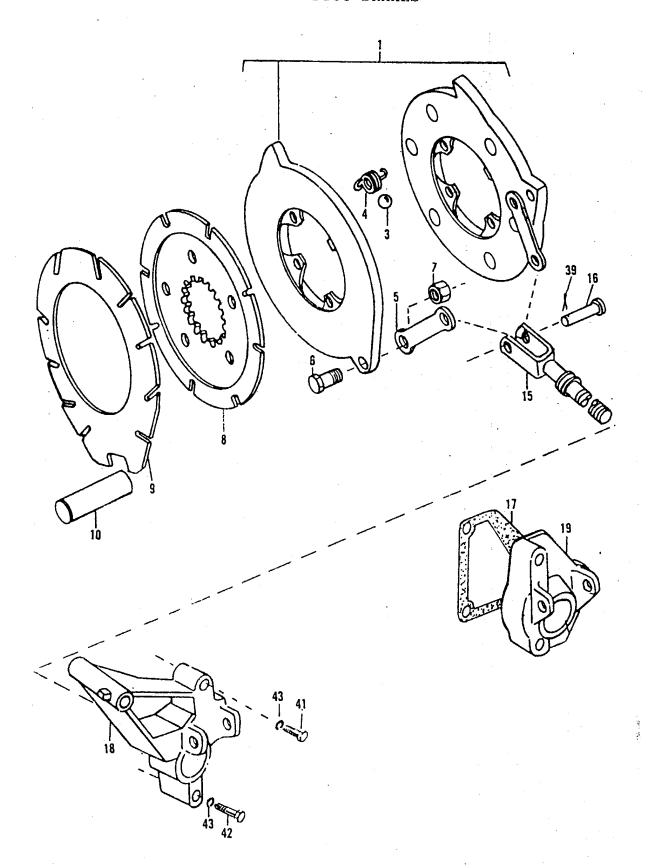


PART NO.	DESCRIPTION	QTY.
P22415	Housing, Axle (Left)	1
P22416	Housing, Axle (Right)	1 1
P22417	Plug, Drain (1/2" P.T. Sq. Hd.)	
P22418	Seal, Axle Shaft	2
P22419	Cup, Axle Shaft Bearing	2 2 2
P22420	Shim, Axle Bearing (.005")	
P22421	Shim, Axle Bearing (.003)	X
P22422	Shim, Axle Bearing (.015")	X
Com'1.	Screw (5/16 x 13/16" NF, Flat Sckt. Hd.)	X
P22423	Shaft, Front Axle	4
P22425	Cover Assembly, Front Axle Drive	2
	(Inc.) Items 21 22 5 27)	2
P22427	(Incl. Items 21, 22 & 23) Cup, Bearing	_
P22429	Seal, Oil	2
P22430	Plug, Drain	2
P22431	Axle, Wheel	2
P22432	Shield, Dust	2 2 2 2 2
P22433	Wheel Lug	
P22435	Cone, Cover	16
P22437	Ring, Snap	2
P22438		2 2
P22440	Carrier, Planetary Pinion	
P22441	Pinion, Planetary	6
P22442	Shaft, Planetary	6
P22443	Roller (29 Per Path)	348
122773	Washer, Roller Spacer	6
P22444	$(1-3/64 \times 1-17/64 \times 1/16")$	•3
P22445	Washer, Thrust	8
P22446	Washer, Thrust	4
P22447	Pin, Pinion (Spirol)	6
P22447	Bushing, Carrier	2
	Cone, Front Axle	2 2
P22451	Gear, Axle Shaft Sun	
P22452	Gear, Planetary Ring	2
P22453	Gasket, Ring Gear	4
Com'1.	Bolt (7/16 x 3-7/8" NF, Hex.)	24
Com'l.	Washer (7/16" Lock)	24
Com'1.	Nut (7/16" NF, Ilex.)	24
Com'1.	Bolt (1/2 x 1-7/8" NC, Hex.)	16

*	For	S/N	102	Ę	106	Use	as	Follows:
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Item #11 P22424
Item #20 P22426
Item #21 P22428
Item #27 P22436
Item #32 P22439
Item #40 P22448
Item #41 P22450
Item #28 P22437

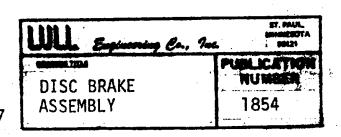


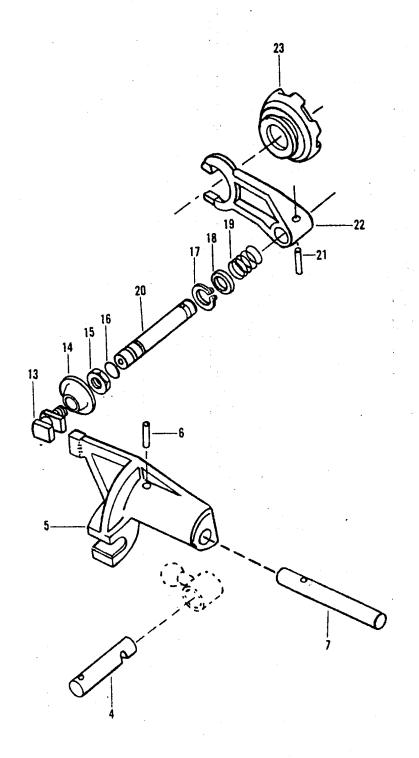


ITEM	PART NO.	DESCRIPTION	٠.	QTY.
1	P22455	Actuator Assembly, Brake (Incl. Items 3 thru 7)		2
3	P22456	Ball (7/8")		6
4	P22457	Spring, Return		4
5	P22458	Link	. •	2
6	P22459	Pin, Pivot		2
7	P22460	Nut		. 2
8	P22461	Disc (Friction)		10
9	P22462	Disc (Intermediate)		6
10	P22463	Pin, Reaction		2
15	P22464	Rod, Brake		2
16	P22465	Pin, Rod		2
17	P22466	Gasket, Bracket		2
18*	P22467	Bracket, Brake Lever (Left)		1
19*	P22468	Bracket, Brake Lever (Right)		1
39	Com'1.	Cotter Pin $(5/32 \times 1-1/4")$		2
41	Com'l.	Bolt $(3/8 \times 2-1/4" \text{ NC, Hex.})$		4
42	Com ^t 1.	Bolt $(3/8 \times 2-3/4" \text{ NC, Hex.})$		2
43	Com'l.	Washer (3/8" Lock)		6

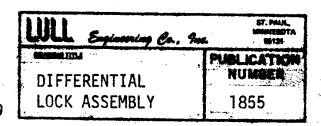
For S/N 102 Use As Follows:

Item #18 P22485 Item #19 P22484





ITEM	PART NO.	DESCRIPTION	QTY.
4 5 6	P22502 P22503 P25504	Pin, Handle Pivot Lever Pin (3/16 x 1-1/4" Groove)	1 1 1
7	P22505	Shaft, Lever	1
13*	P22506	Clevis, Differential Lock	1
14	P22507	Boot, Clevis	1
15	Com'l.	Jam Nut (7/16" NE)	1
16	P22508	Seal, Shaft	1
17	P22509	Ring, Spring Retaining	1
18	P22510	Washer	1
19	P22511	Spring	1
20	P22512	Shaft	1
21	P10378	Pin (1/4 x 1-1/2" Roll)	1
22	P22513	Fork	1
23	P22514	Coupler, Fork	1

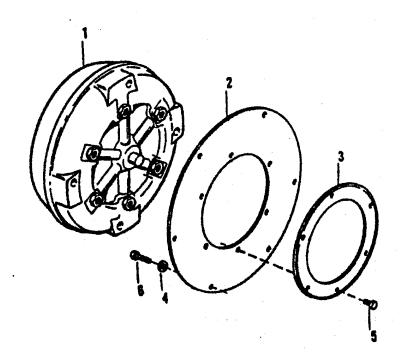


^{*} For S/N 102 Use P22515

PARTS NOT ILLUSTRATED

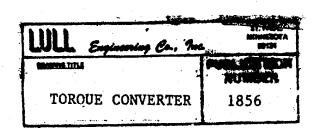
Gasket Set. Top Overnaul *Gasket Set, Top Overhaul	P22176 P22177
Gasket Set, Bottom Overhaul	P22178
*Gasket Set, Bottom Overhaul Starter	P22179
*Starter	P22554
Starter Solenoid	P22555
*Starter Solenoid	P22556
Alternator (37 amp.)	P22557
*Alternator (61 amp.)	P22558
Glow Plug (Heater)	P22559
3 ()	P22210

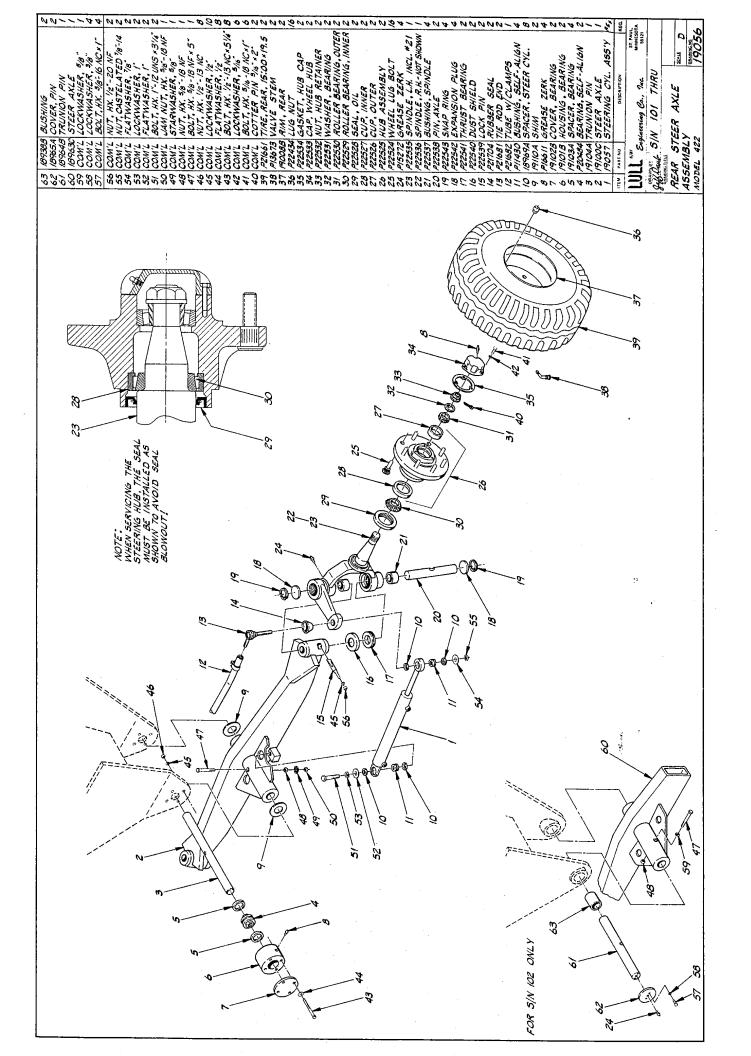
^{*} For S/N 102 & 106 only

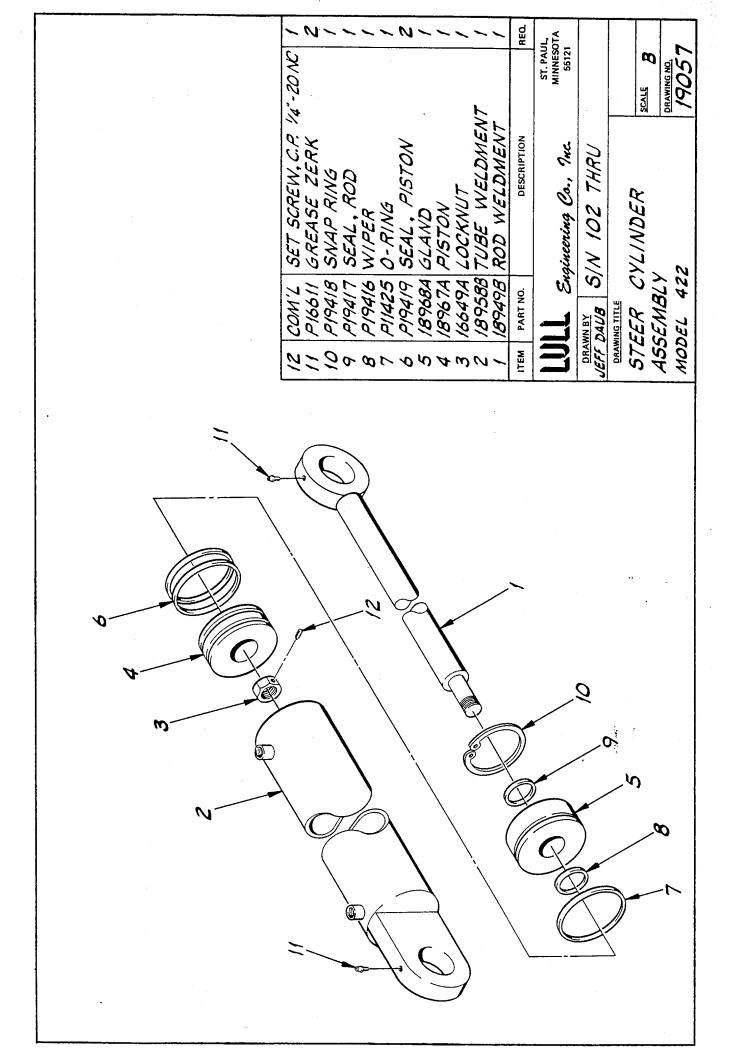


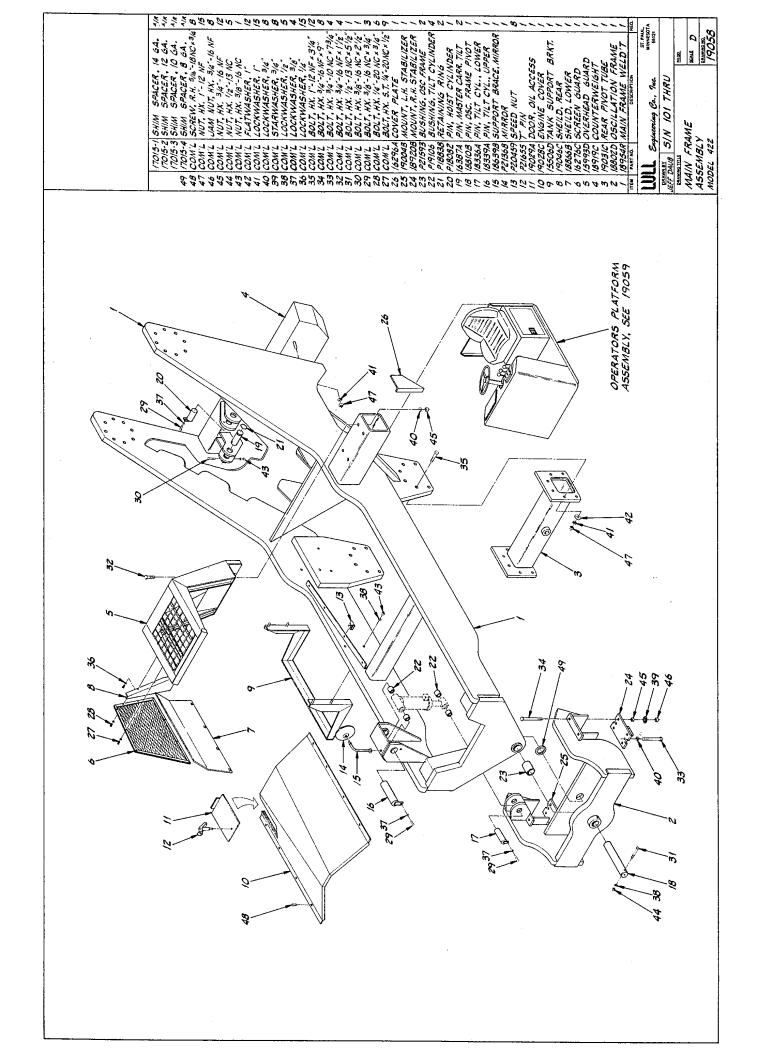
ITEM	PART NO.	DESCRIPTION	OTY.
1 2 3 4 5	P25450 P25451 P25452 P25675 P13515 P25660	Converter Assembly, Torque Plate, Drive Plate, Reinforcement Washer, Drive Plate Bolt (3/8 X 1/2 NF, Hex, Lock, Grade 8) Bolt (M8 - 1.25 X 25mm Hex.)	1 1 1 6 6

S/N 169, 171-173, 175-177, 181, 182, 184 & 186 ONLY.

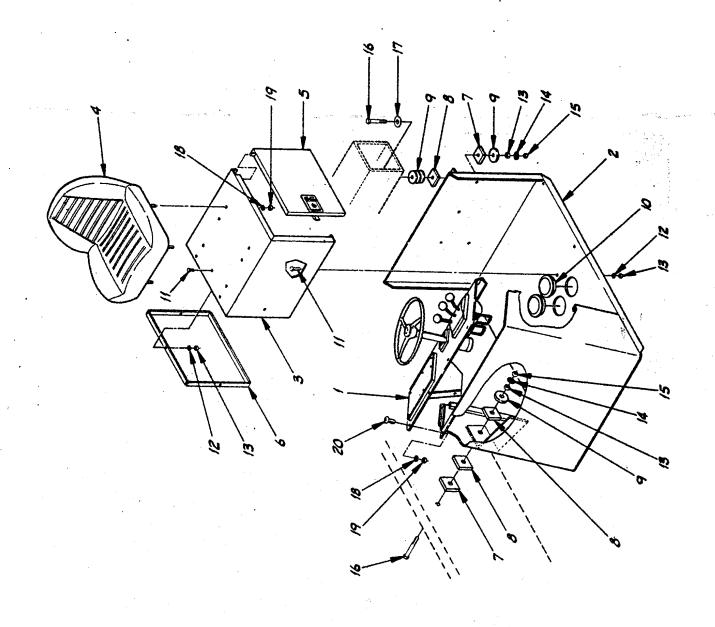


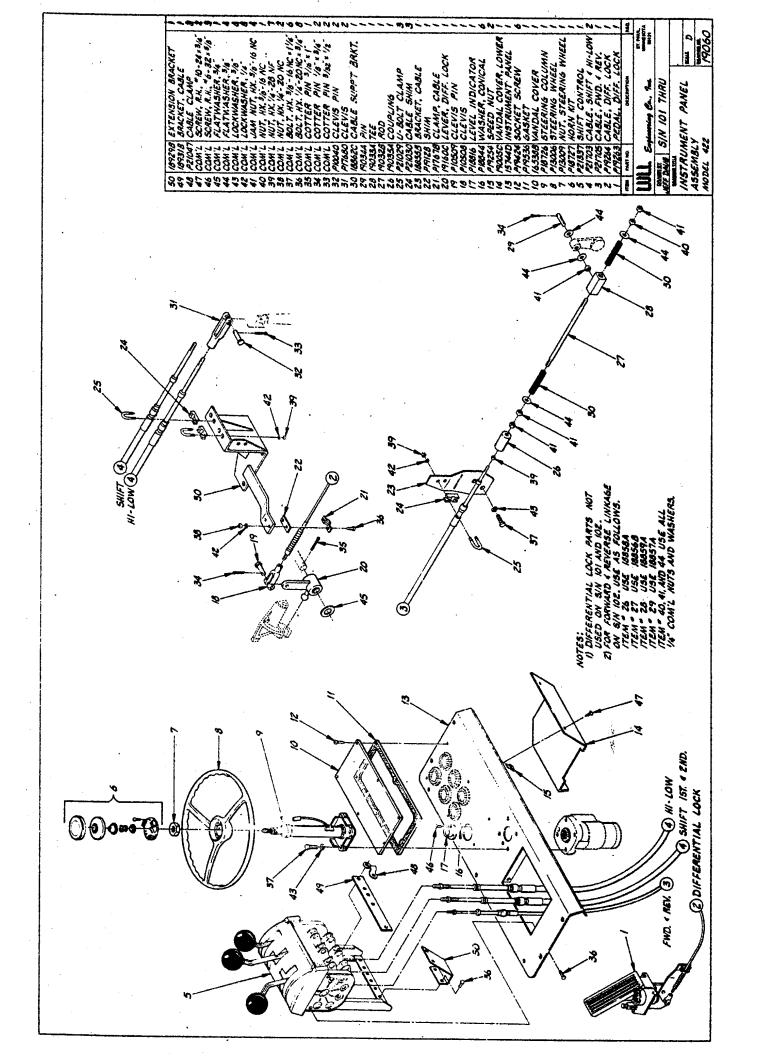


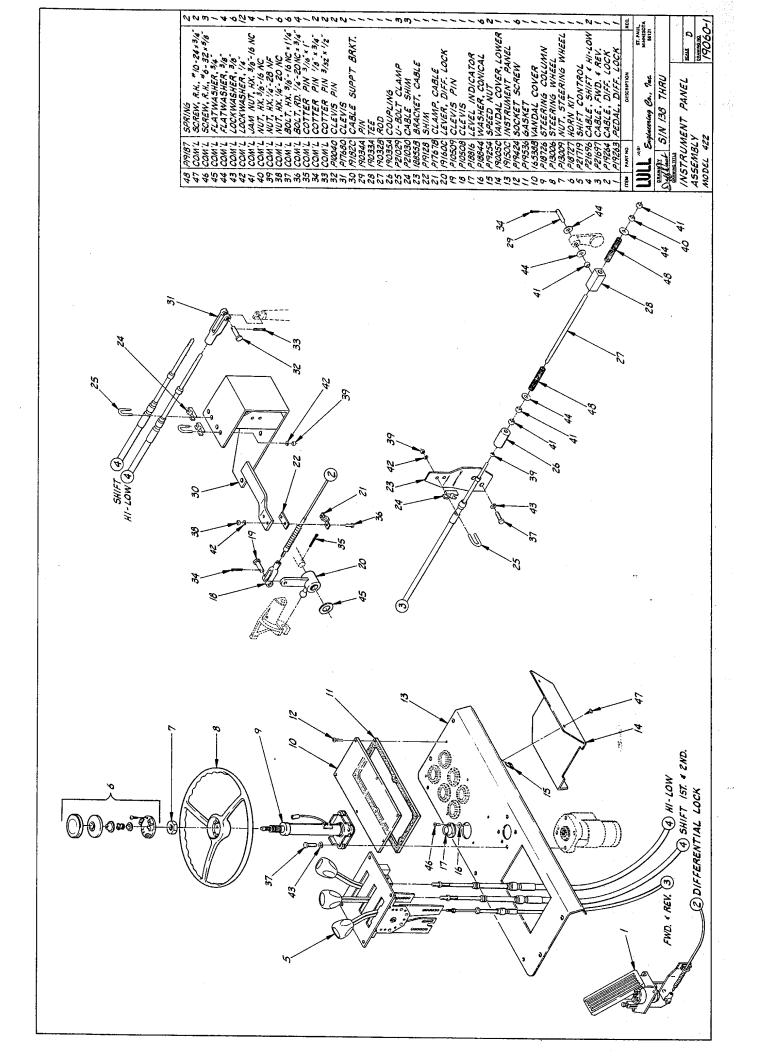


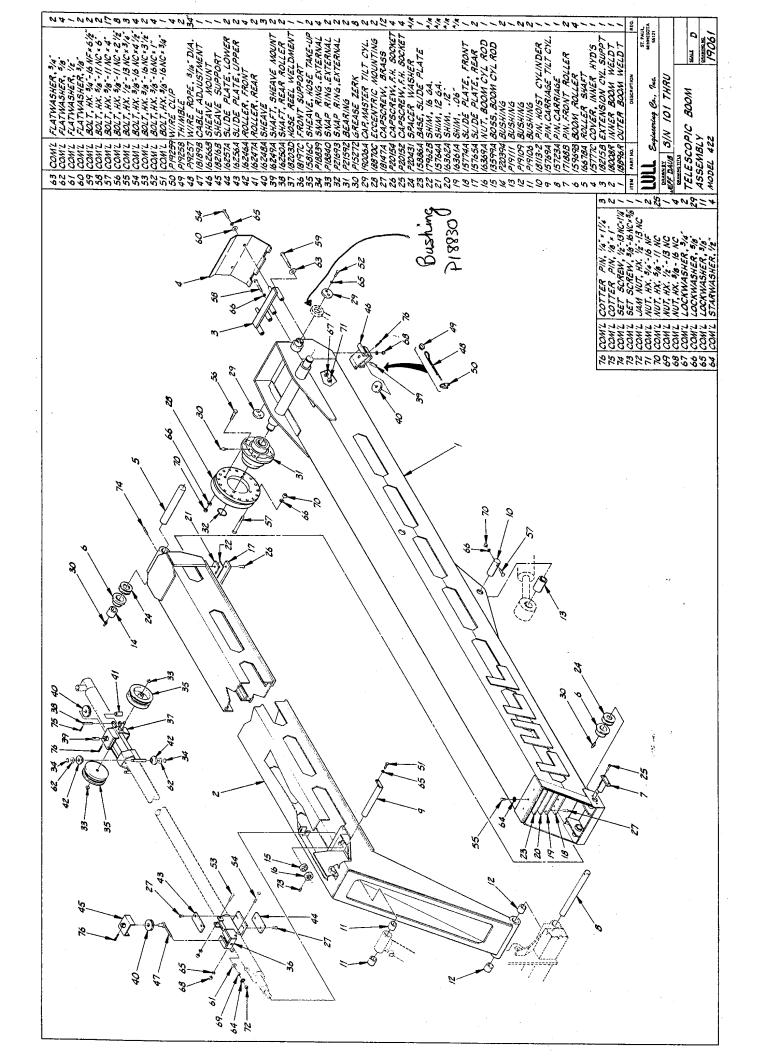


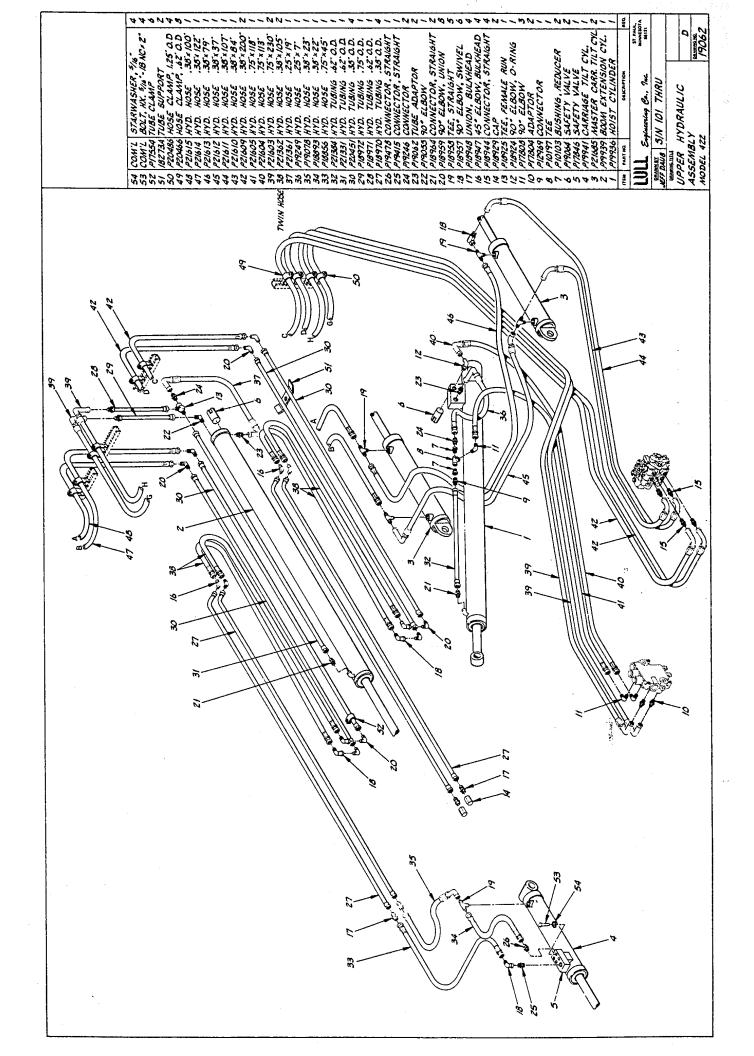
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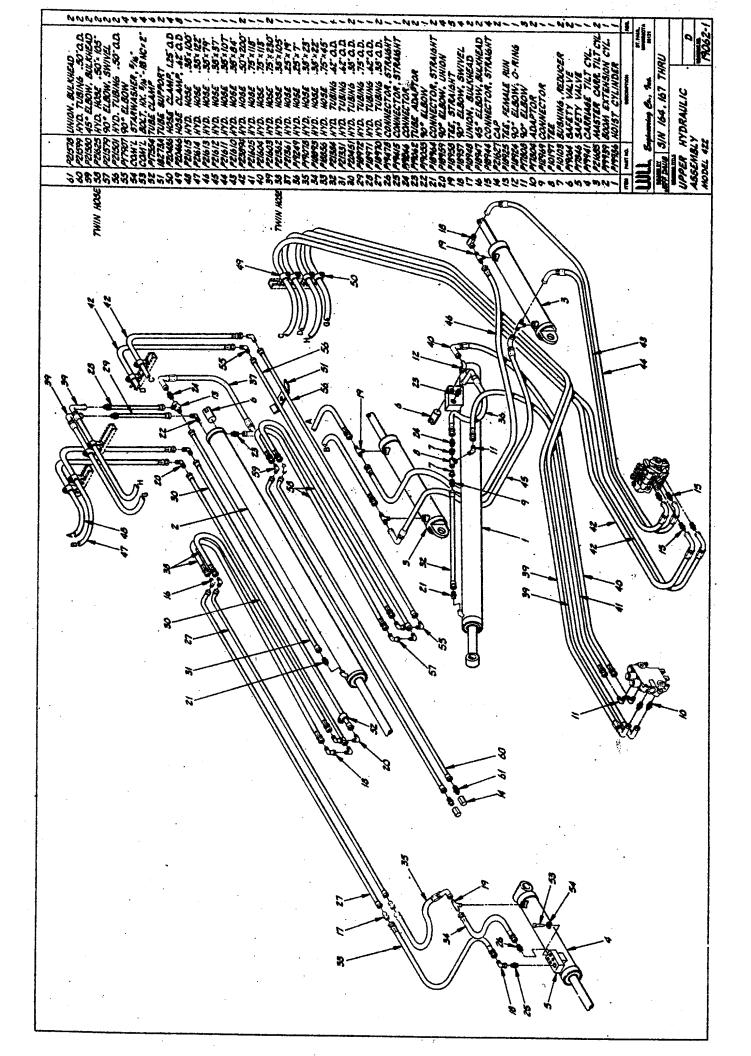


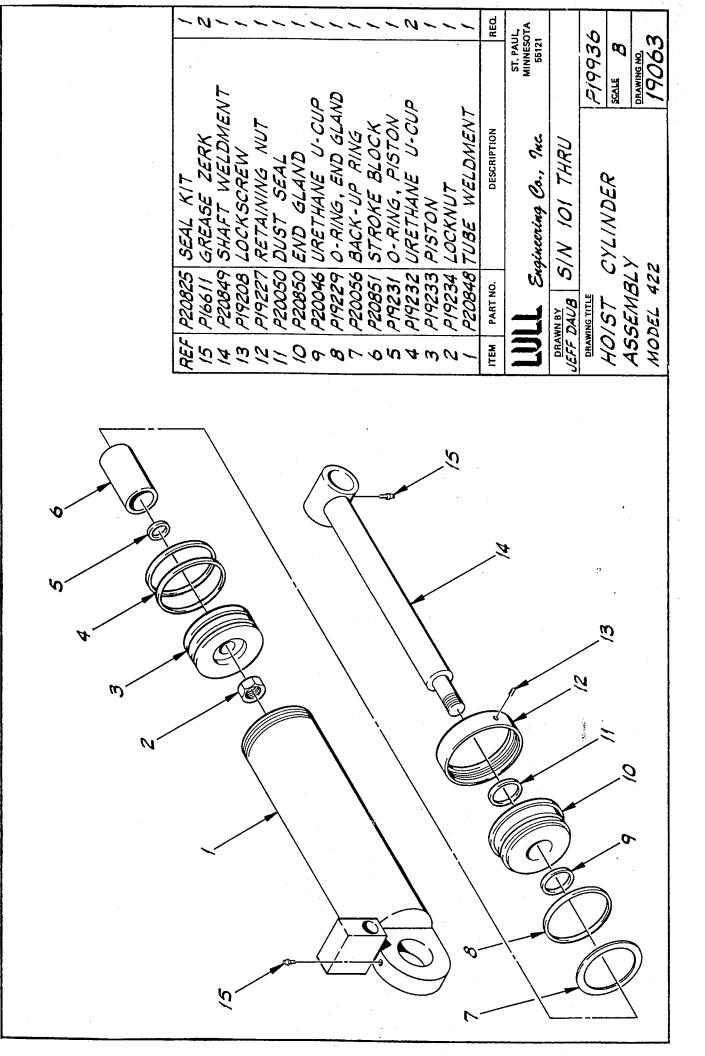


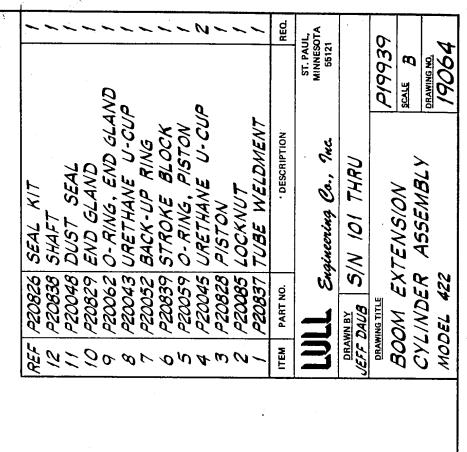


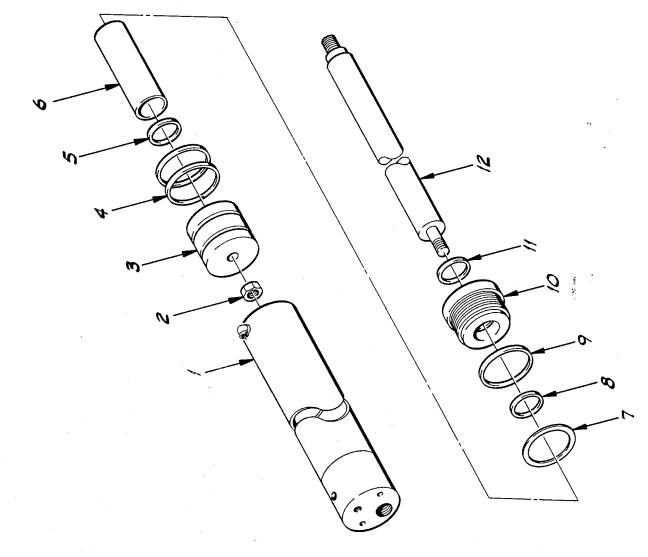


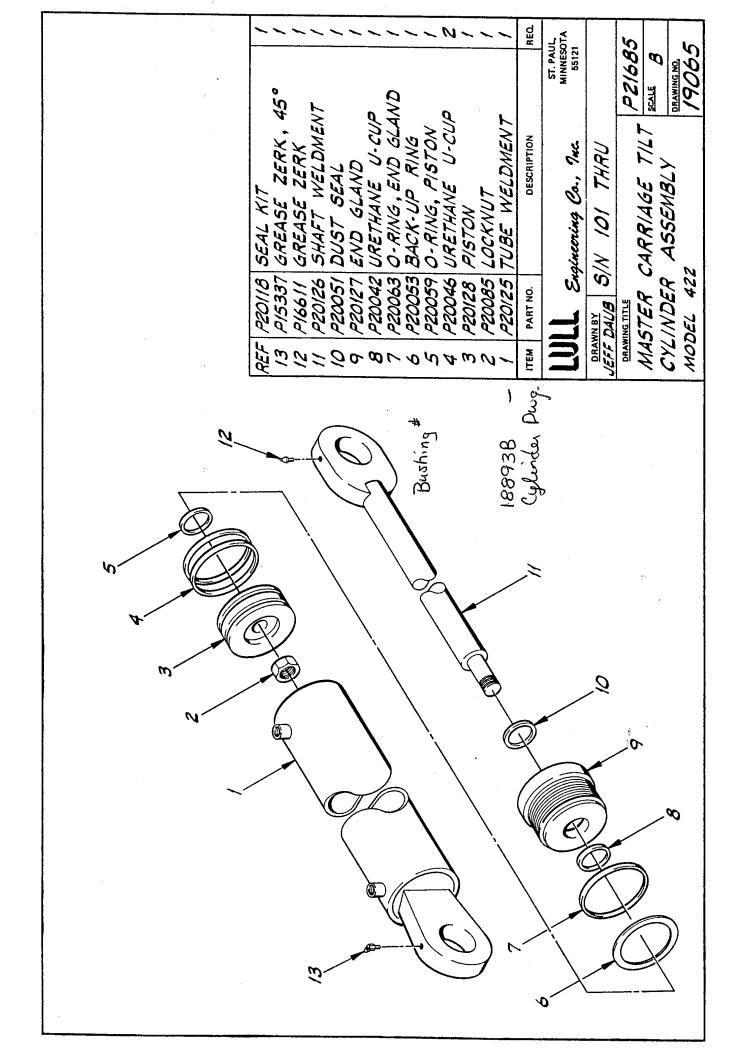


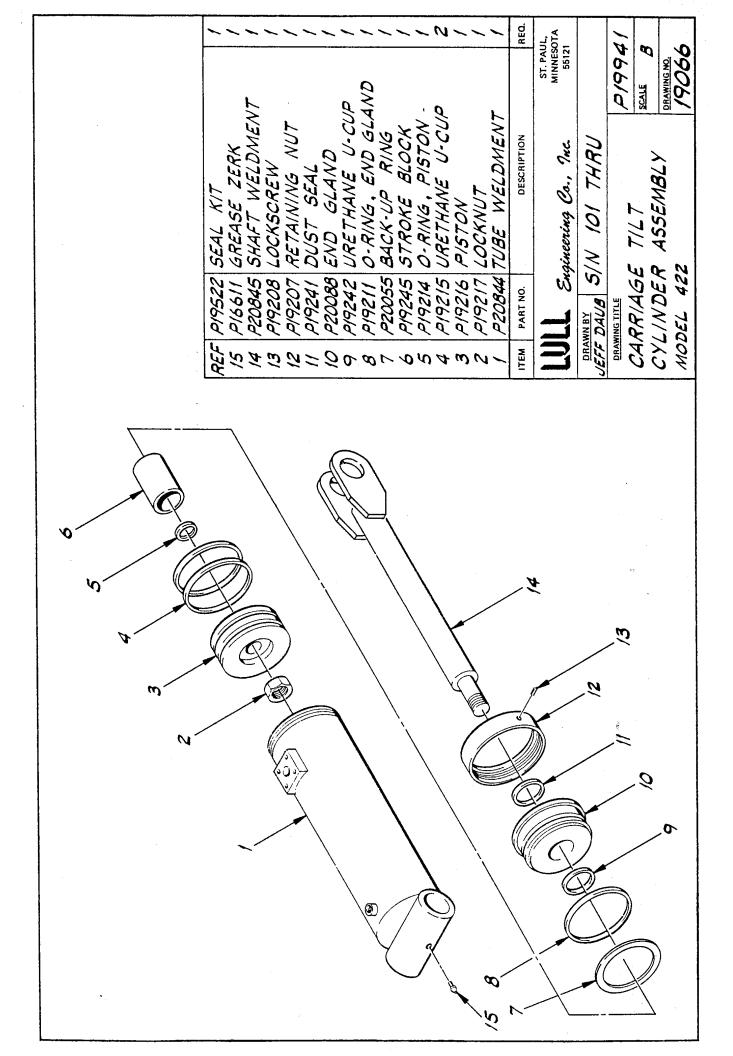


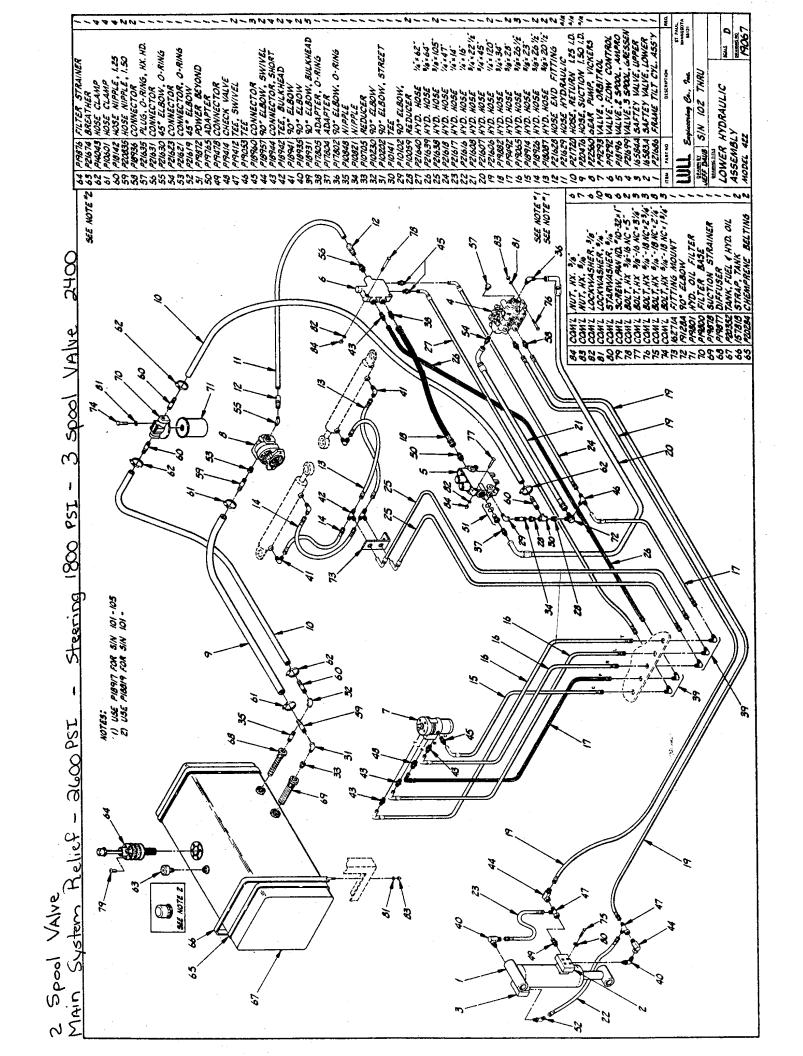


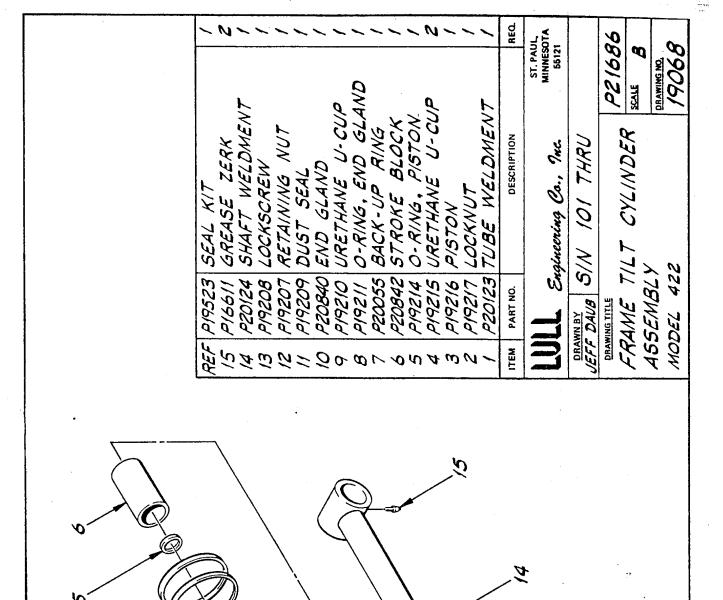


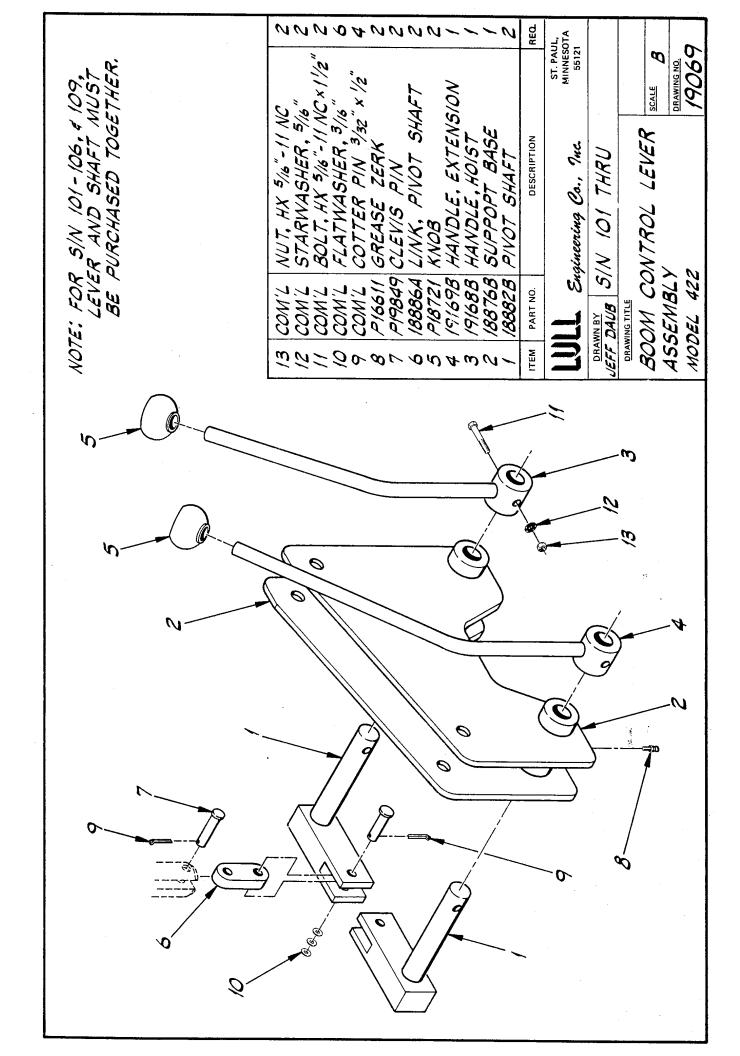


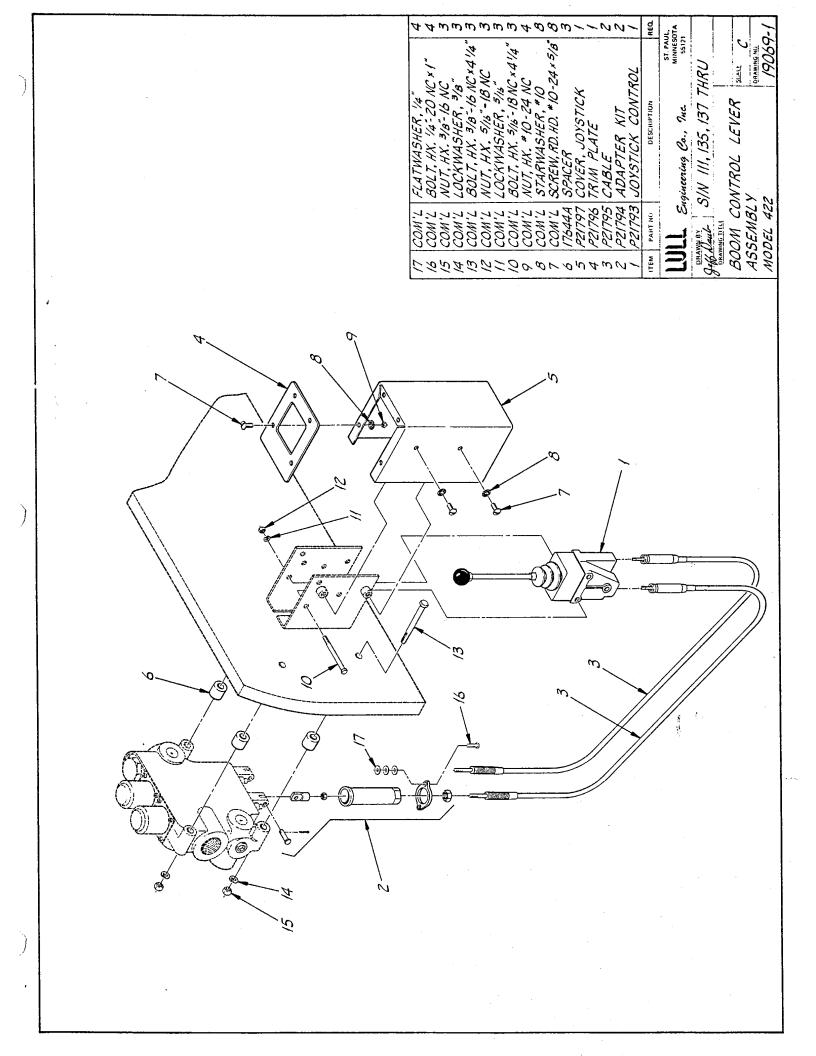


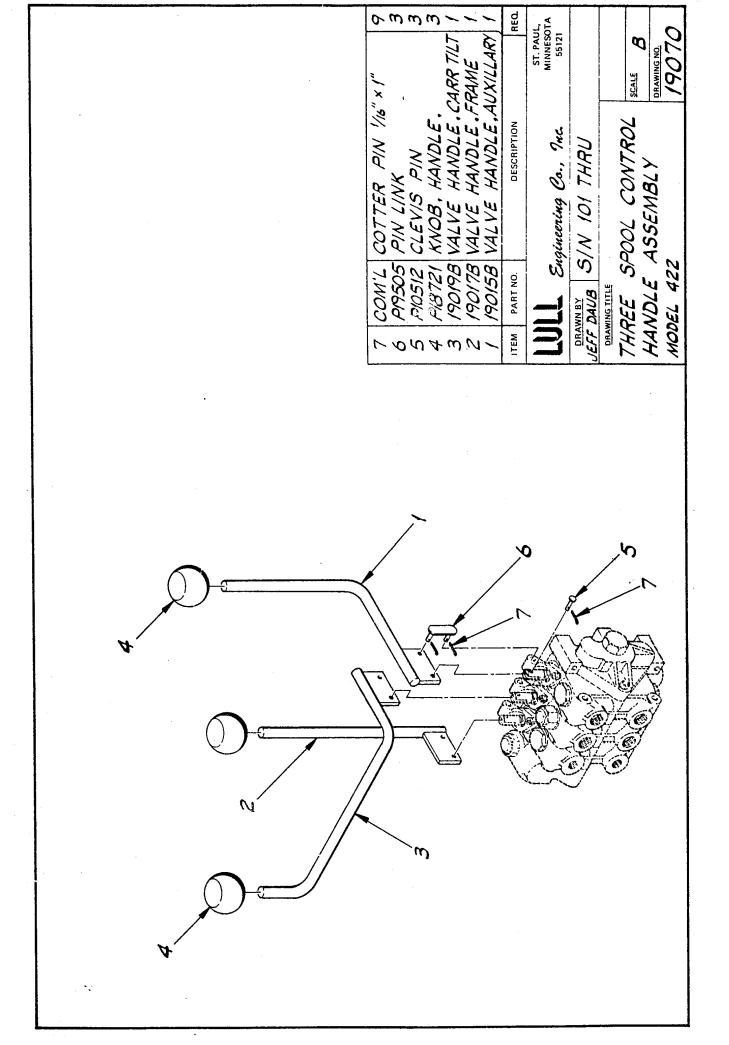


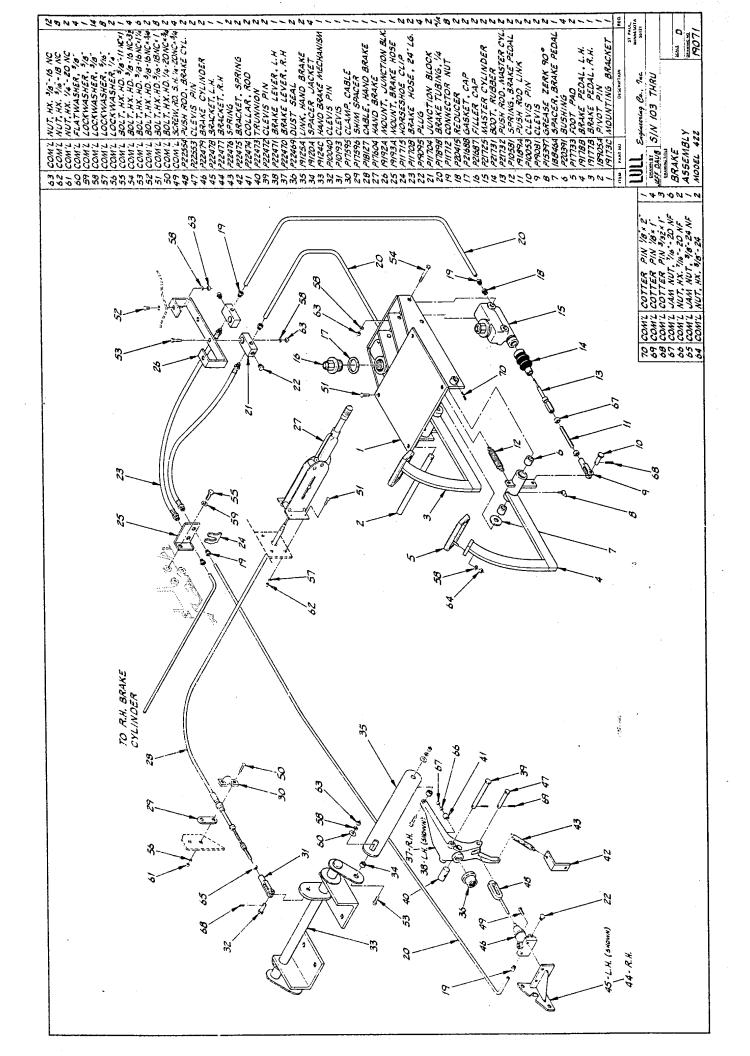


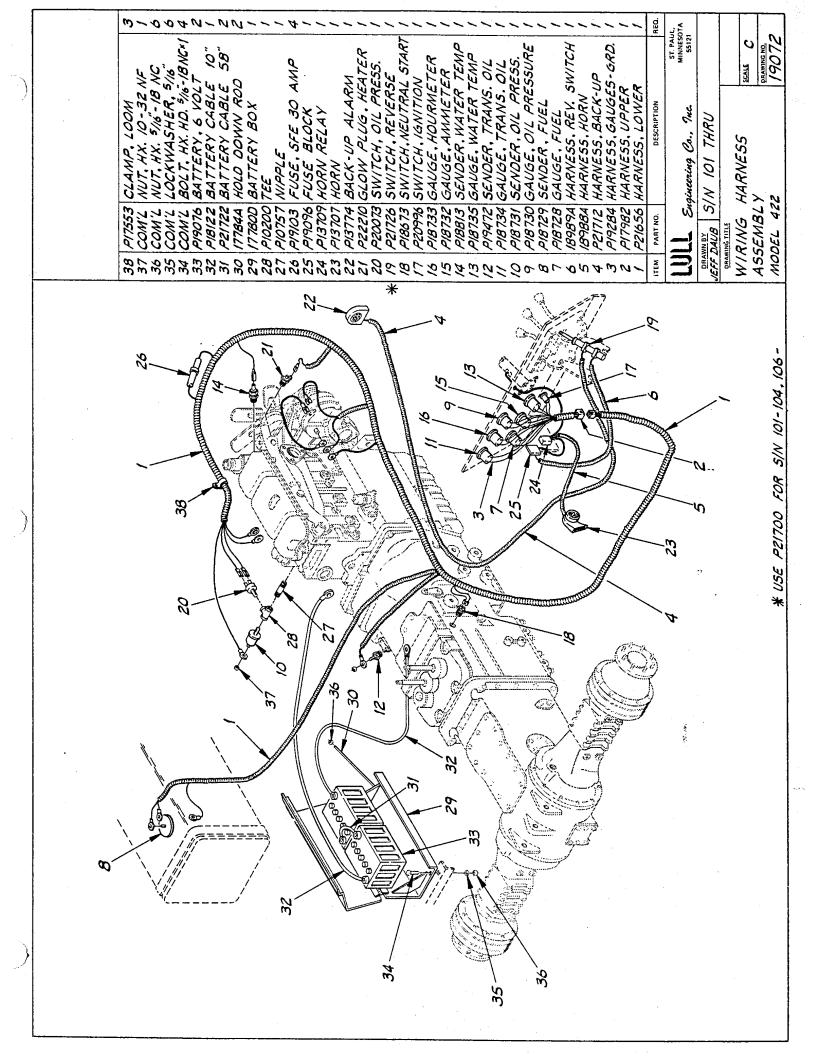


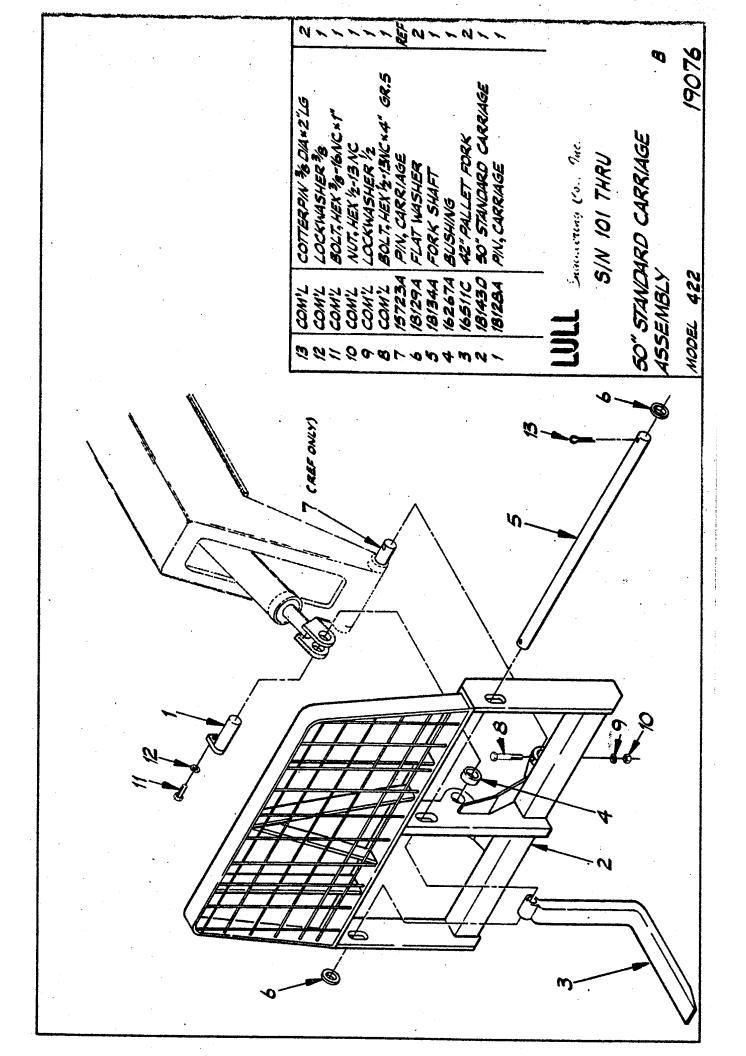


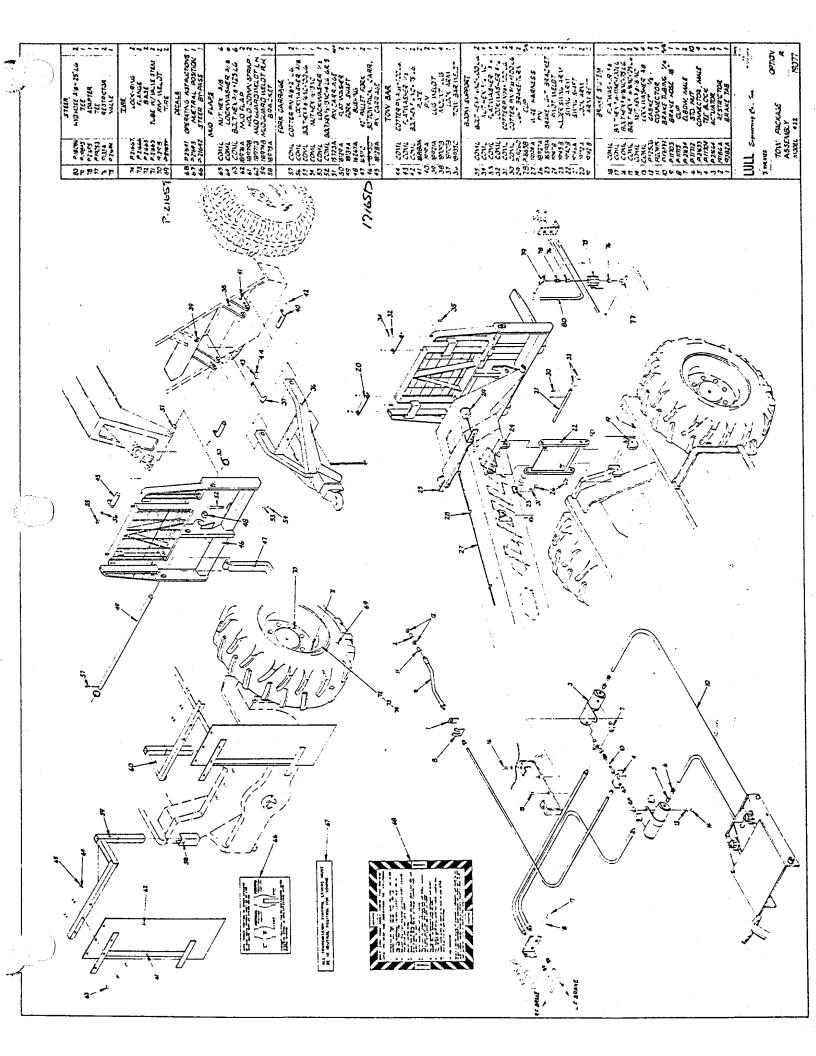


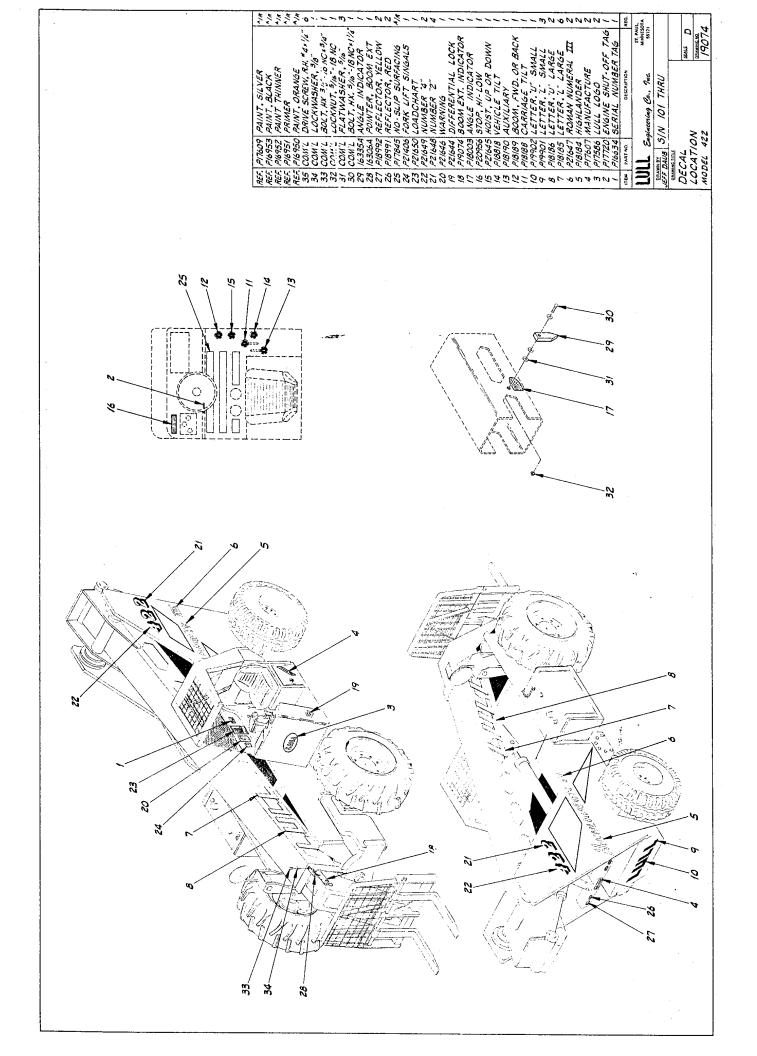












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