

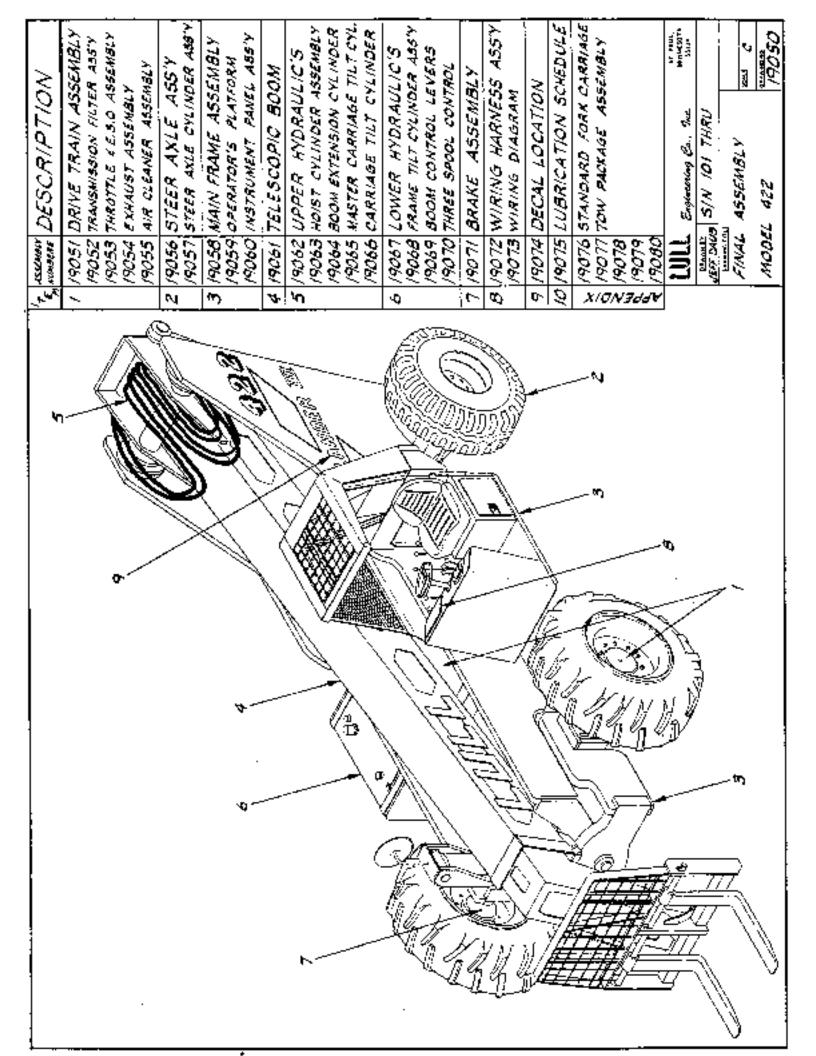
# **Illustrated Parts Manual**

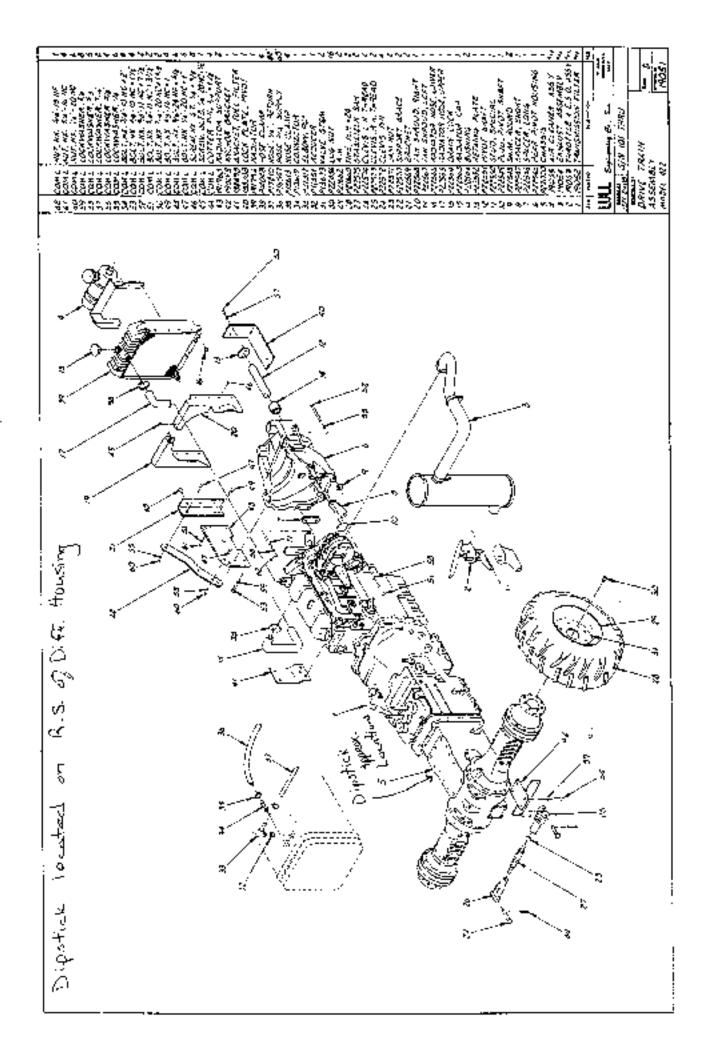


## **10709897 S/N 102 to 186** October 1980 - December 1982

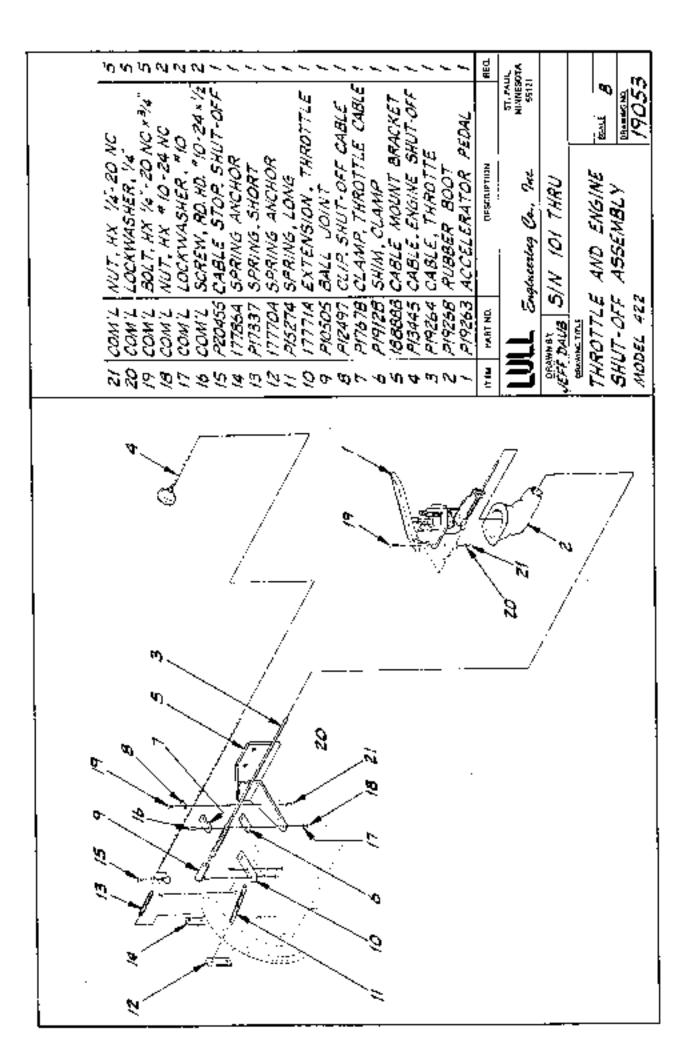


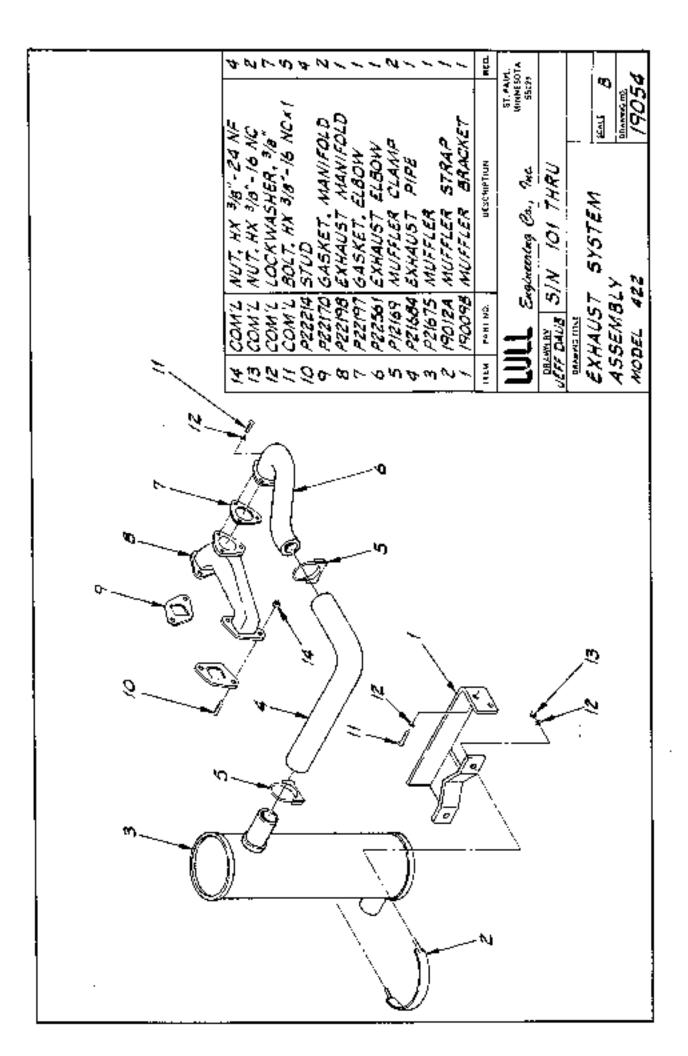
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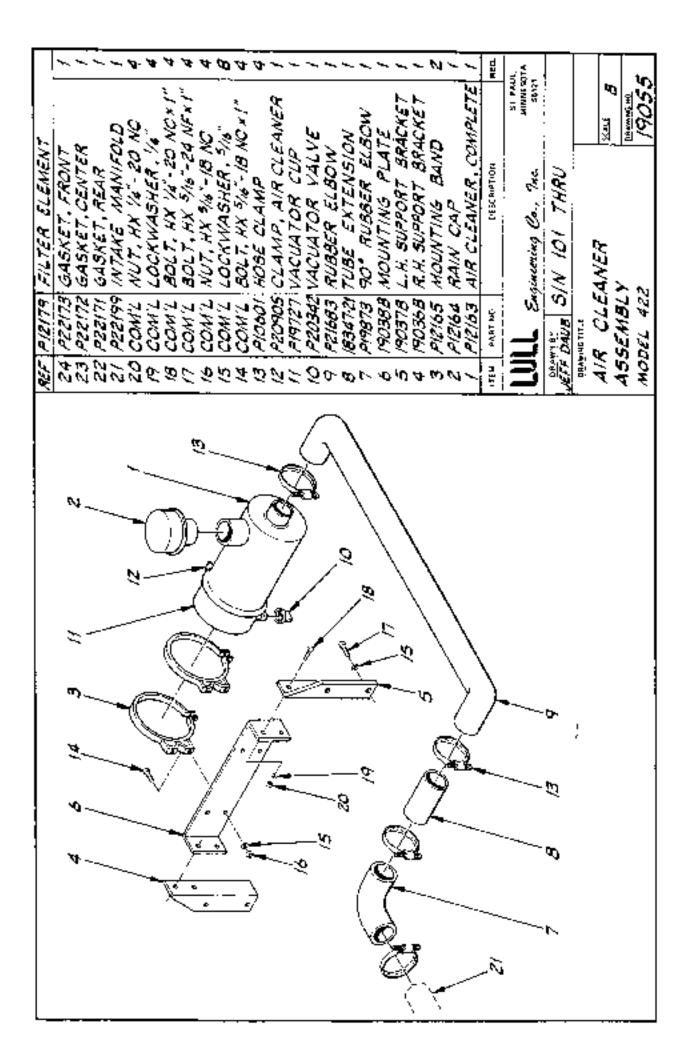




/3 COM'L LOCKWA5HER, 7% 3   /2 COM'L BOLT, HX, 7%-14 MC * 1/4 3   /1 COM'L BOLT, HX, 7%-14 MC * 1/4 3   /1 COM'L BOLT, HX, 5%-14 MC * 1/4 3   /1 COM'L BOLT, HX, 5%-14 MC * 1/4 3   /1 COM'L BOLT, HX, 5%-18 MC * 1/4 3   /1 COM'L BOLT, HX, 5%-18 MC * 1/4 3   /1 COM'L BOLT, HX, 5%-18 MC * 1/4 3   /1 BOLT, HX, 5%-18 MC * 1/4 3   /1 BOLT, BOLT, HX, 5%-18 MC * 1/4 3   /2 POPSE 90 MALE ELBOW 3   /2 POPSE 90 MALE ELBOW 1   /2 POPSE 90 MALE ELBOW 1   /2 POPSE 90 MALE ELBOW 1   /2 POPSE 100 MCCTOR 0 1   /2 POPSE 100 MCCTOR 1 1   /2 POMECTOR 1 1 1   /2 POMECTOR 1 1 1   /2 POMECTOR	P16996 CONVECTOR P19132 F1LTER BAS. P19133 F1LTER BAS. P19133 F1LTER, TRA ANT 410 DE2014	URANNAL SIN 101 THRU MERE DAUD SIN 101 THRU DAMMETALS ASSEMBLY MODEL 422 MODEL 422 19052
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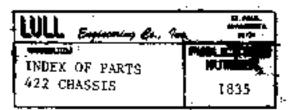
TNDEX	OF	PARTS
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	ASSEMBLY	GE
	Cylinder Head & Rockershaft	
	Cylinder Block	
	Rings, Pistons, Connecting Rods & Bearing	
	Camshaft & Timing Gears	
	Crankshaft & Main Bearing	
	Oil Pan, Pump & Filter	
	Wager Pump & Outlet	
	Fuel Injection Lines	
	Fuel Fump & 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	
¥	Torque Converter	
	* For S/N 169, 171-173, 175-177, 181, 182, 184 & 186 ONLY	

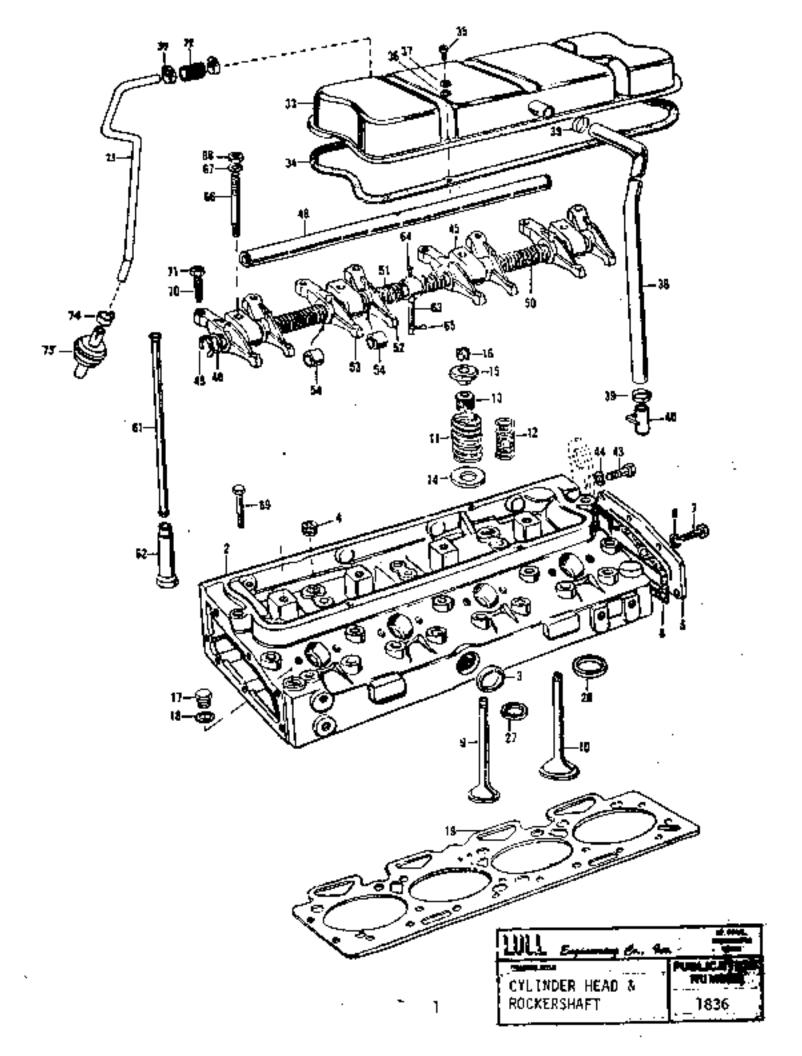


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#### CYLINDER HEAD, COVER, VALVES AND ROCKERSHAFT

QTY-DESCRIPTION PART NO. ITEM Head Assembly, Cylinder (Incl. Items 3 1 1 **P22051** thru 18) . 1 Plug (1-1/4" Cup Type) . 3 P22006 2 Plug (1/2" - 14 Hex., Sckt. Hd.) 4 P22052 1 Cover, Rear P22053 \$ 1 Gasket, Rear Cover 6 P22169 6 Bolt (5/16 x 3/4" NF, Hex.) 7 Com'l. 6 Washer (5/16" Lock) 8 Com'l. 4 Valve, Intako (Std) 9 P22062 x Yalve, Intake (+.003") 9 P22063 х Valve, Intake (+.015") 9 P22064 х Valve, Inteke (+.030") 9 P22065 4 Valve, Exhaust (Std.) 10 P22066 x Valve, Exhaust (\*.003") 10 P22067 х Valve, Exhaust (+.015") 10 P22068 х Valve, Exhaust (+.030") P22069 10 8 Spring, Valve (Outer) 11 P22061 В Spring, Valve (Inner) 12 P22060 8 Seal, Valve Stem 13 P22091 6 Washer, Valve Spring F22058 14 8 Cap. Intake Valve Spring P22057 15 4 Lock, Valve (Set of 2) 16 P22056 1 Plug, Top Pace 17 P22054 1 Washer (5/8" Aluminum) 18 P22055 1 Gasket, Cylinder Head PZ2167 19 4 Insert (Intake) P22070 27 4 Insert (Exhaust) . : 28 P22071 1 Cover, Cylinder Head P22072 33 1 Gasket, Cylinder Head Cover P2Z167 34\* Screw, Cylinder Head Cover 4 35 P22074 4 Washer (1/4 x 9/16 x 1/16") Com'l. 36 4 Washer (1/4" Lock) Com'l. 37 Pipe, Breather 1 38 P22090 2 Clamp, Hose 39 P13613 Bracket, Breather Pipe 1 922091 40 4 Bolt (3/8 x 7/8" NF, Hex.) Com'l. 43 4 Washer (3/8" Lock) 44 Com'1. 4 Bracket, Rockershaft 45 P22075 1 Rockershaft 46\* P22076 2 Washer (3/4 x 15/16 x 3/32") 48 Com'l. 2 Ring, Snap P22078 49 2 Spring, Rockershaft (Long) 50 P22079 2 Spring, Rockershaft (Short) 51 P22080 4 Lever, Right Hand (Incl. Item 54) 52 P22081 4 Lever, Left Hand (Incl. Item 54) 53 P22082

2

Bushing, Lever

54

P22083

TTEM	PART. NO.	DESCRIPTION	QTY.
61 62 63 64 65 66 67 68 69 69 69 69 69 70 71 72 73 74	P22084 P22085 P22086 P22088 Com'1. Com'1. Com'1. Com'1. Com'1. P22089 Com'1. P22092 P22093 P22094	Rod, Push Tappet, Valve Oil Line, Rockershaft Screw (#10 - $32 \times 7/16"$ Hex.) "O" Ring ( $1/4"$ I.D. $\times 1/4"$ ) Stud ( $7/16"$ NF $\times 2 \cdot 1/2"$ ) Washer ( $7/16 \times 7/8 \times 3/32"$ ) Nut ( $7/16"$ NF, Hex., Lock) Bolt ( $1/2 \times 4 - 1/8"$ NF, Hex.) Bolt ( $1/2 \times 4 - 1/8"$ NF, Hex.) Bolt ( $1/2 \times 4 - 15/16"$ NF, Hex.) Bolt ( $1/2 \times 4 - 15/16"$ NF, Hex.) Screw, Tappet Adjusting Nut ( $3/8"$ NF, Hex.) Hose, Breather Extension, Breather Pipe	8 8 1 1 4 4 4 4 12 6 2 8 8 1 1
75	P22095	Clip Breather	1 1

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

	Þ22073 Þ22194
Item	 P22077

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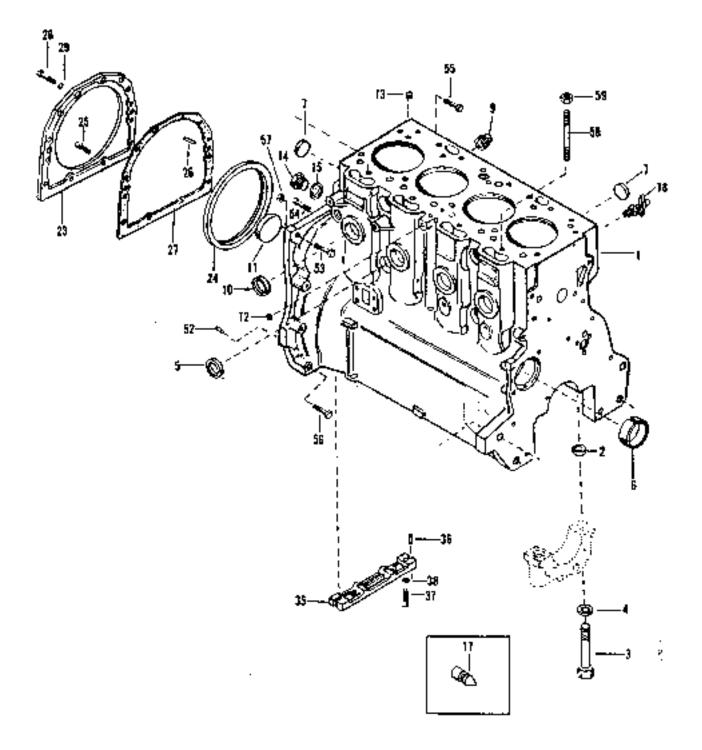
WILL Engenery Co. to	ят, фаль). Салосания В Алт
CYLINDER HEAD &	AUGLICATION NUMBER
ROCKERSHAFT, CON'T	1837

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ITEM	PART NO.	DESCRIPTION	<u>QTY.</u>
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)	i
13	P22010	Plug (5/16" Cup Type)	1
14	P22011	Ping (7/8" NF, Sekt. Hd.)	1
15	P22013	Washer (29/32 x 1-1/8 x 3/32" Copper)	ī
17	P22014	Pointer, Timing Pin	ī
18	P22015	Drain, Cylinder Block	ī
23	P22017	Housing, Rear Oil Seal	î
24	P22018	Seal, Housing	1
25	Com'l.	Screw (5/16 x 1" NF, Sckt. Hd.)	2
26 .	P22019	Dowel, Oil Seal Housing	2
27	P22192	Gasket, Housing to Block	1
28	Com'l.	Bolt (5/16 x 1" NF, Hex.)	10
29	Com <sup>1</sup> 1.	Washer (5/16" Flat)	10
35	P22020	Bridge, Block to Pan	
36	P22188	Gasket, Bridge	1 2 2 2 2
37	Com'l.	Screw (1/4 x 3/4" NF, Phil. Hd.)	2
38	Com'l.	Washer (I/4" Flat)	2
<b>\$</b> 2	Com'l.	Dowel, Engine to Transmission	2
53	Com'l.	Bolt (7/16 x 1-3/4" NC, Hex.)	1
54	Com'l.	Bolt (3/8 x 1-3/4" NF, Hex.)	3
55	Com <sup>1</sup> 1.	Bolt (7/16 x 2" NC, Hex.)	ĩ
56	Com'l.	Bolt (7/16 x 2-1/4" NC, Hex.)	
57	Com'l.	Nut (7/16" NC, Hex.)	5 1 2
58	P22021	Stud (1/2 x 4-1/2" NF)	2
59	Com'l.	Nut (1/2" NF, Hex.)	2
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٠ For S/N 102 & 106 Use P22015

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

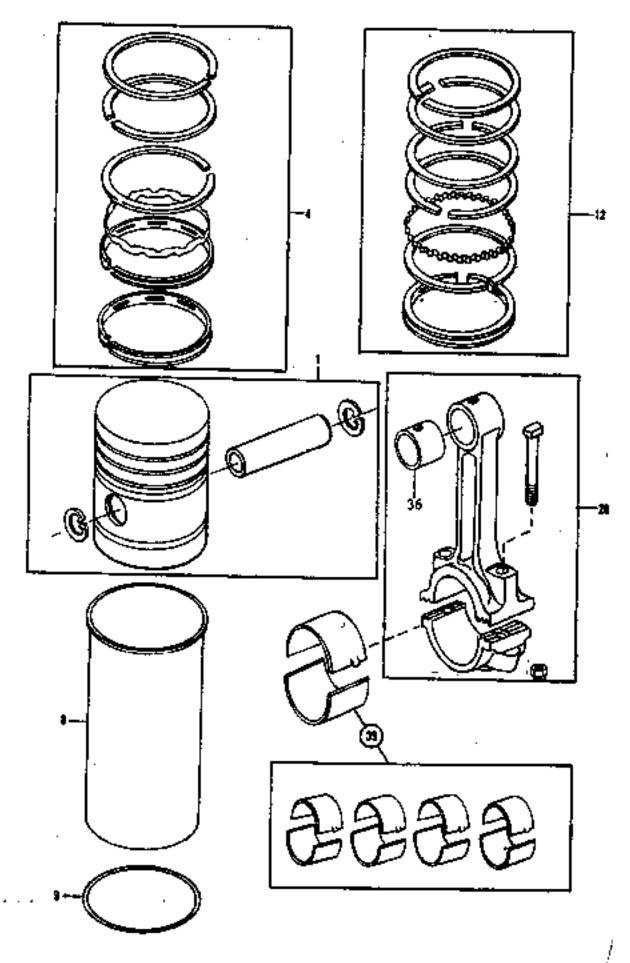
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WILL Summing the St.	67 Aug.
CYLINDER BLOCK	HUMBER 1238

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## PISTONS AND RINGS, CONNECTING RODS AND BEARINGS



<u>ітем</u>	PART NO.	DESCRIPTION	QTY.
1	P22022 P22023	Piston Assembly	4
8	P22025	Ring Set, Single Piston Liner, Cylinder (Standard)	4
8	P22026	Liner, Cylinder (+.010")	4
	P22027	Liner, Cylinder (+.040")	4
9	P22028	Shim, Liner	4
12	P22024	Ring Set, Piston (Re-Ring)	4
26	PZ2029	Rod Assembly, Connecting	4
35	P22030	Insert Set, Connecting Rod Bearing (Std.)	
35	P22031	Insert Set, Connecting Rod Bearing (010")	
35	PZ2032	Insert Set. Connecting Rod Bearing (~.020")	
35	PZ2033	Insert Set, Connecting Rod Bearing (~.030")	

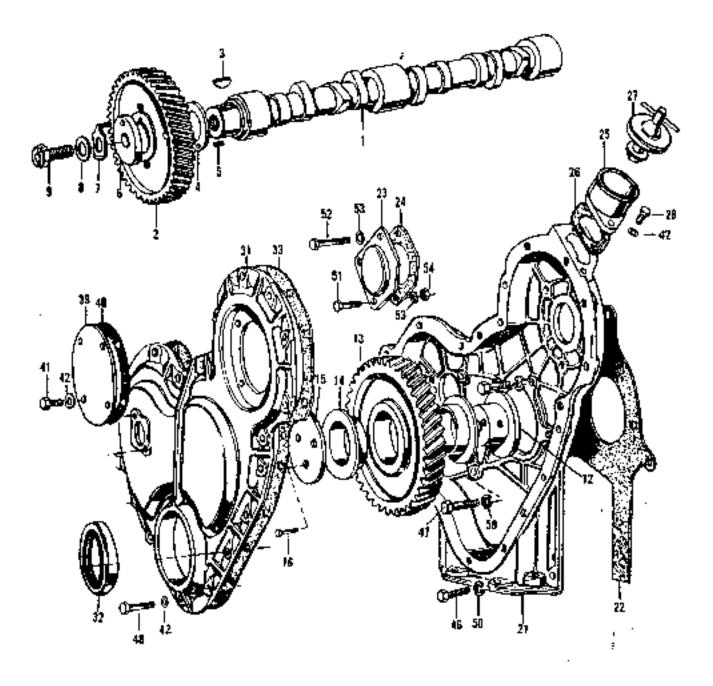
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	WILL Examples to the	ST FAUL Stations
	RINGS, PISTONS, &	PUBLICATION NUMBER
7	RINGS, PISTONS, & COMNECTING RODS	1839

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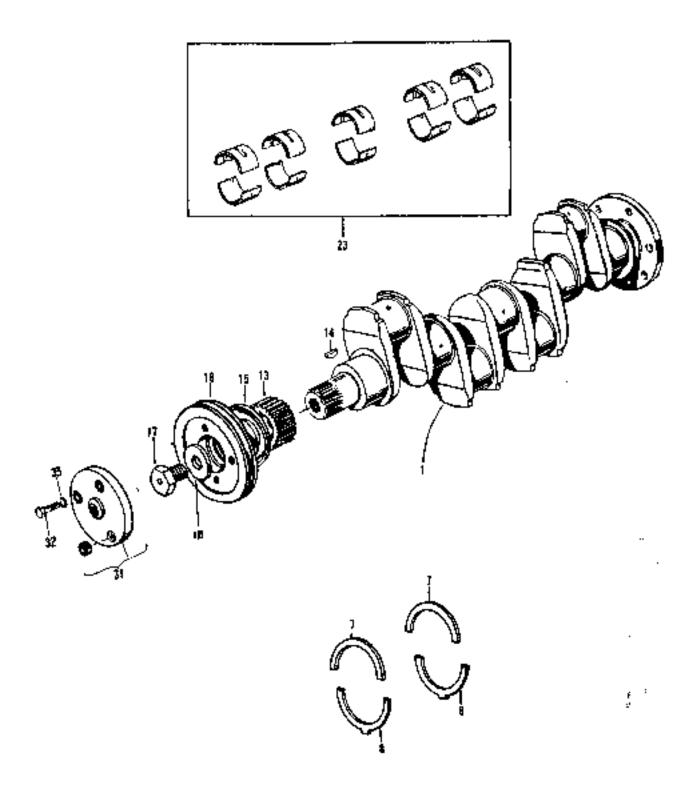


ITEM	PART NO.	DESCRIPTION	QTY,
1	PZ2096	Camshaft	ı
2*	P22097	Gear, Camshaft Timing	1
3	P22044	Key, Gear to Camshaft	1
4	P22099	Washer, Gear to Camshaft	1
5	P22100	Dowel, Camshaft Washer	1
6	P22101	Washer, Timing Gear, Front	1
7	P22102	Washer, Tab	1
8	P22103	Washer, Retaining Bolt	1
9	P22104	Bolt, Gear Retaining	1 1
12	P22105	Hub, Idler Gear	
13	. P22106	Gear Assembly, Idler	1
15	P22107	Plate, Idler Gear	1 3 1
16	Com'l.	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, Qil	1
<b>Z</b> 6	P22189	Gasket, Oil Filler Housing	1
27*	P22112	-Cap, Oil Filler	1
28	Com'l.	Bolt (5/16 x 3/4" NF, Hex.)	1 2 1
31	P22114	Cover, Timing Gear Housing (Incl. Item 32)	I
32	P2213S	Seal, Oil	1
33	P22182	Gasket, Cover to Housing	I
39	P22116	Cover, Inspection	1
40	P22181	Gasket, Inspection Cover	1
41	Com'1.	Bolt (5/16 x 1/2" NF, Hex.)	4.,
42	£22117	Washer (5/16 x 9/16 x 1/16" Aluminum)	10
46	Com'1.	Bolt (5/16 x 7/8" NF, HEx.)	22
47	Com'l.	Bolt (5/16 x 1" NF, Hex.)	1
48	Com'i.	Bolt (5/8 x 2-1/2" NF, Hex.)	4
50	Com'l.	Washer (5/16" Lock)	23
51	Com'l.	Bolt (3/8 x 1-3/4" NC, Hex.)	1
<b>S</b> 2	Com <sup>1</sup> 1.	Bolt (3/8 x 2-1/2" NC, Hex.)	
\$3	Com'l.	Washer (3/8" Lock)	3
54	Com'l.	Nut (3/8" NC, Hex.)	2 3 1
			× .

\* For  $\hat{S}/N$  102 & 106 Use as Follows:

Item	<b>#</b> 2	P22098
Iteπ	#25	P22111
Item	#27	P22113

ļ	WILL Engenning Co., 24	ат. Рын., Чарнаота Фізі
	CAMSHAFT &	PUBLICATION
9	TIMING GEARS	1840



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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")	×
13	P22043	Gear, Crankshaft	1
14	P22044	Key, Gear	1
15*	P22045	Flange, Thrower	1
16*	P22047	Pulley, Crankshaft	1
17	P22049	Bolt, Pulley	i
18	P22050	Washer, Bolt	1
23	P2203S	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'1.	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 Pollows:

Item	<b>#15</b>	P22046
Item	#16	P22048

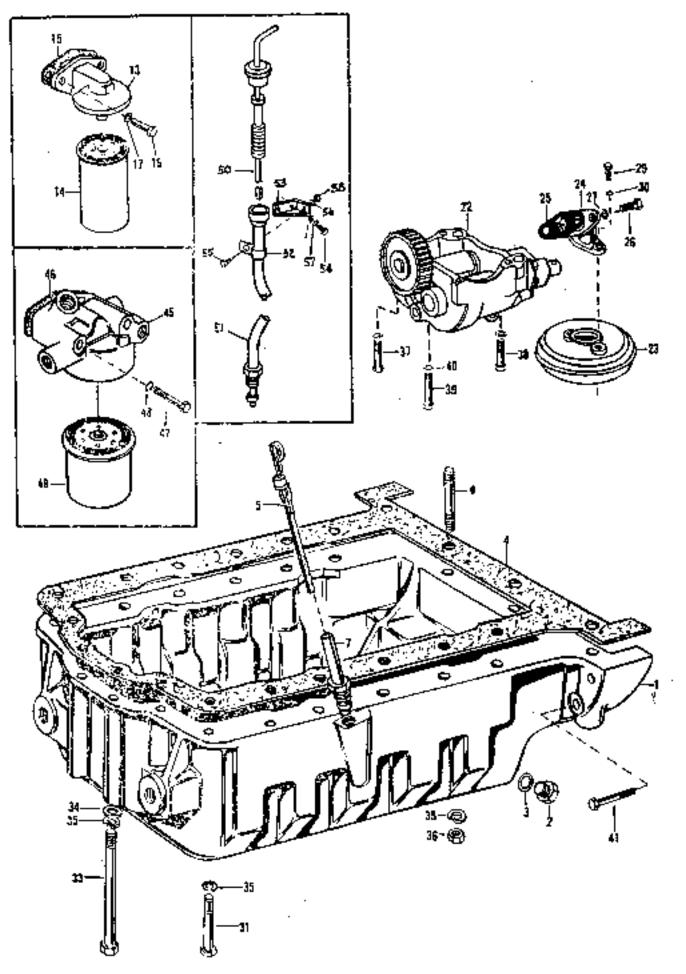
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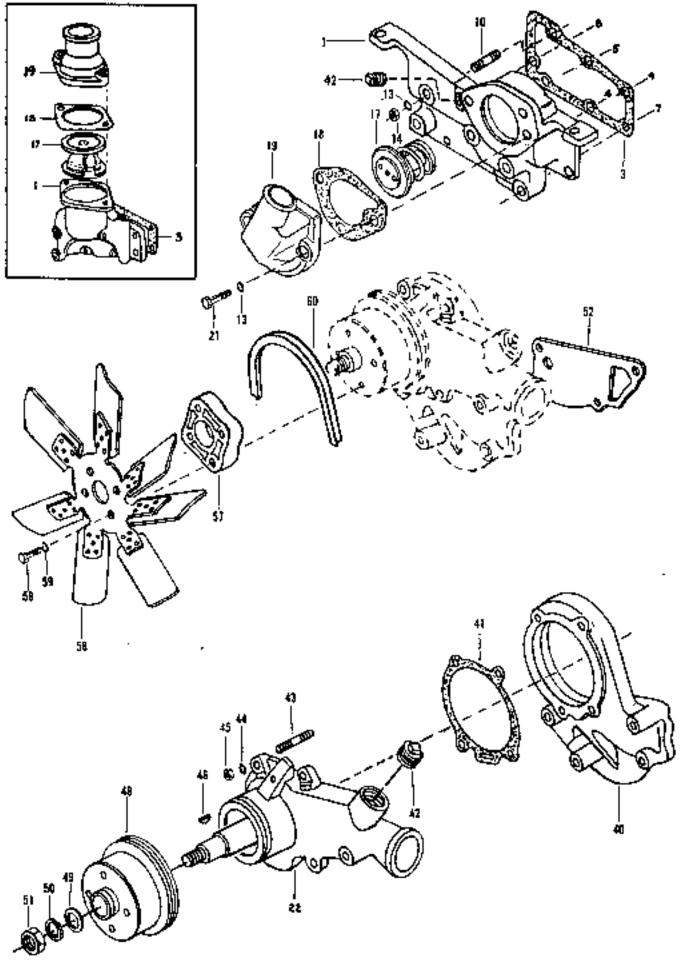
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	CRANKSHAFT &	NUMBER
11	MAIN BEARINGS	1841

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<u>Item</u>	PART NO.	DESCRIPTION	<u>qty.</u>
1	P22118	Pan, Oil	1
2	PZ2119	Plug, Pan	1
3	P22166	Casket, Plug	1
4	PZ2183	Gasket, Oil Pap	1
S 7	P22120	Dipstick, Oil Level	1 1 1
	₽221 <u>22</u>	Tube, Dipstick	1
9	P22131	Stud (5/16" NF x 3-15/16")	2
13	P22126	Head, Filter	I
14	P20995	Filter, Oil	1 1 2 2
15	P22191	Gasket, Filter	İ
16	Com 1.	Bolt (7/16 x 1/-1/4" NF, Hex.)	2
17	Com'l.	Masher, Bolt	2
22	P22128	Balancer Assembly	1
23	P22129	Strainer Assembly, Oil	1
24	P22130	Connection, Strainer	1
25 24	P22190	Gasket, Connection	1
26 27	Com'l.	Screw (5/16 x 2-1/4" NF, Hex.)	2
29	Com'l.	Washer (5/16" Lock)	2
30	Com'l.	Bolt (1/4 x 5/8" NF, Hex.)	1 2 2 2 2
30	Com'l. Com'l.	Masher (1/4" Lock)	
33	Com'l.	Bolt (5/16 x 3-1/4" NF, Hex.)	12
34	Com'l.	Bolt (S/16 x S-1/2" NF, Hex.) Washer (S/16 x S/8 x S/64"}	6 7
35	Com'1.	Washer (5/16 x 5/6 x 5/64 )	20
36	Com'l.	Nut (5/16" NF, Hex.)	20
37	Com'1.	Bolt (3/8 x 2-1/2" NF, Hex.)	5
38	Com'1.	Bolt (3/8 x 3" NF, Hex.)	2 1
39	Com'l.	Bolt (3/8 x 5-1/4" NF, Hex.)	i
40	Com't.	Washer (3/8" Lock)	4
41	Comil.	Bolt (7/16 x 2-5/8" NC, Hex.)	4
41	Com'1.	Bolt (7/16 x 1-3/4" NC, Hex.)	2
	For 5/N 102 §	106 only, use as follows for oil filter & dips	tick.
45	P22127	Head Assembly, Filter	I
46	P22195	Gasket, Head to Block	1
47	Com'l.	Bolt, Filter Head to Block (7/16 x 4-1/2" NF,H	-
48	Com'l.	Washer, Bolt (7/16" Lock)	2
49	P20995	Filter (Spin-On)	
50	P22121	Dipstick Assembly	1
51	PZ2123	Tube Assembly, Dipstick	1
52	P22124	Clip, Dipstick Tube	ī
53	P22125	Bracket, Dipstick Tube Support	ī
54	Com'l.	Bolt, Bracket (1/4 x 5/8" NF, Hex.)	z
55	Com'l.	Bolt, Tube Support (1/4 x 5/8" NF, Hex.)	1
56	Com'l.	Washer, Tube Support (1/4 x 9/16 x 1/16")	2 3
57	Com'l.	Washer (1/4" Lock)	
58	Com 1.	Nut, Boit (1/4" NF, Hex.)	1

WILL Symmetry on the	ST. MAR. dreed Stat.
OIL PAN PUMP, &	PUBLICATION ITUMBER 1842



<u>ITEM</u>	PART NO.	DESCRIPTION	<u>qtv.</u>
1*	P22132	Body, Water Outlet	1
3	P22174	Gasket, Outlet Body	1
4	Com'l.	Bolt (S/16 x 7/8" NF, Hex.)	2
5	Com'l.	Bolt (5/16 x 2-1/2" NF, Hex.)	+
6	Com'l.	Washer (5/16" Lock)	3
8	Com'l.	Bolt (3/8 x 1-3/4: NF, Hex.)	1
9	Com'l.	Bolt (3/8 x 2-1/2" NF, Hex.)	1
10	Com 1.	Stud (3/8 x 2-9/16" NF)	i
13	Com'l.	Washer (3/8" Lock)	1 1 6
14	Com'l,	Nut (3/8" NF, Hex.)	1
17	P22134	Thermostat	1
18*	P22175	Gasket, Thermostat Housing	1
19*	P22135	Connection, Thermostat Housing	1
21	Com'l.	Bolt (3/8 x 1-1/2" NF, Hex.)	÷
22	P22137	Pump Assembly	1 2 1 1 1 1
40	P22138	Body, Rear Half	1
41	P22184	Gasket, Body Halves	î
42	P22052	Plug (1/2" P.T. Sq. Hd.)	1
43	P22139	Std (5/16" x 1-3/8" NF)	4
44	Com'l.	Washer (5/16" Lock)	4
45	Com'l.	Nut (5/16" NF, Hex.)	4
46	P22140	Key, Shaft	1
48	P22141	Pulley, Pump and Pan Drive	4 1 1 1 1
49	Com'l.	Washer (5/8' Flat)	1
50	Com'l.	Washer (5/8" Lock)	T
51	Com'1.	Nut (5/8" NF, Hex.)	1
52	P22185	Gasket, Pump to Block	1
56	P22142	Fan. Cooling	ī
57	P22143	Extension, Pulley	î
S8	Com'l.	Bolt (5/16 x 1-3/4" NF, Hex.)	4
59	Com'i.	Washer (5/16" Lock)	4
60	P20867	Belt	1
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\* For S/N 102 & 106 Use as Follows:

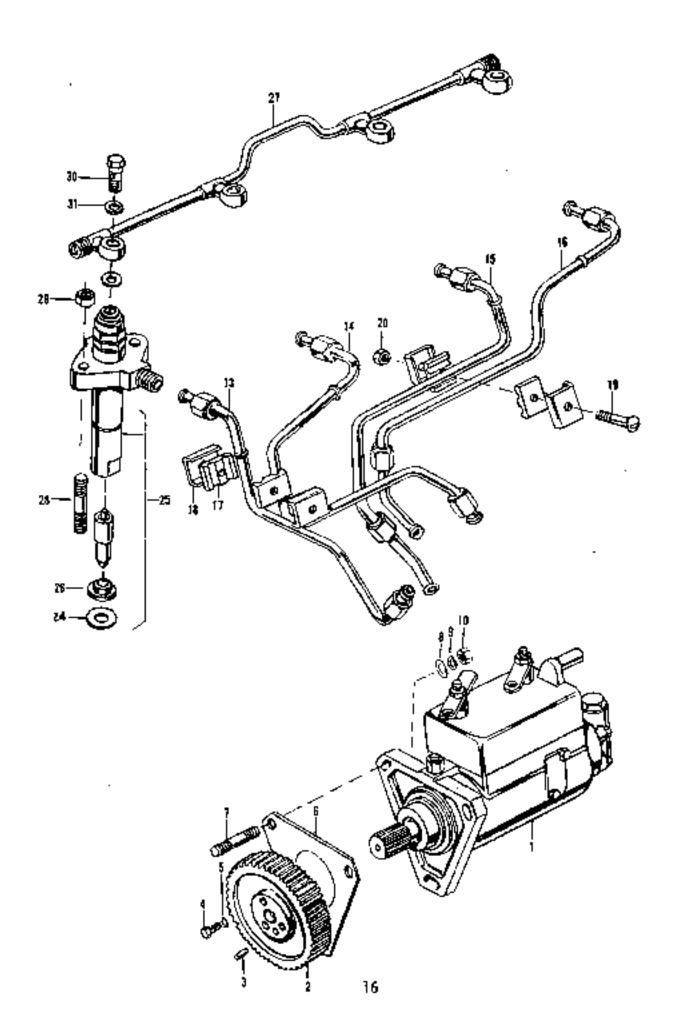
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Item #1 P22133 Item #18 P22196 Item #19 P22136

	WILL summer as a	St. Andrew States Minister
	WATER PUMP &	NUMBER
15	OUTLET	1843

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<u>ITEM</u>	PART NO.	DESCRIPTION	QTY
1*	P22144	Pump Assembly, Injection	
z	P22146	Gear, Pump Drive	1
3	P22147	Dowel, Gear	1
4	Com'1.	Bolt (5/16 x 3/4" NF, Hex.)	1 3
5	Com'i.	Washer (5/16" Lock)	3
6	P22187	Gasket, Injection Pump	
7	P22139	Stud (5/16" NF x 1-3/8")	1
8	Com'1.	Washer (5/16" Plat)	3 3 3 3
9	Com <sup>†</sup> 1.	Washer (S/16" Lock)	1
10	Com'l.	Nut (5/16" NF, Hex.)	7
13*	P22148	Line Assembly, Injection, #1 Cylinder	1
14*	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'l.	Screw (#10 - 32 x 1" Rd, Hd. Sltd.)	2
20	Com'l.	Nut	2
24	P22165	Washer, Injection Nozzle	2
25*	P22158	Injector	4
26	P22164	Shield, Injector	4
27	P22160	Line, Leak-Off	1
28	- 12161	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:

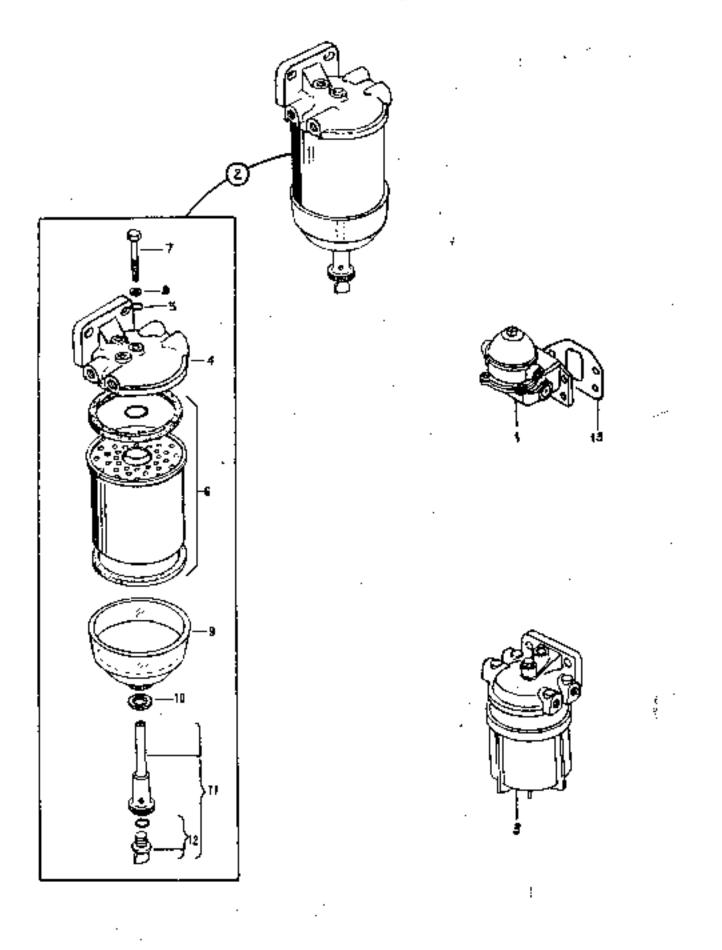
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Item #1	P22145
Item #13	P22152
Item #14	P22153
Ttem #15	<b>₽22154</b>
Item #16	P22155
Item #25	P22159

LULL Symmetry &. 2	17.7486. Verdelaria Barr
FUEL INJECTION	PUBLICATION HUMBER
LINES	1844

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<u>ITEM</u>	PART NO.	DESCRIPTION	<u>QTY.</u>
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 13	P22220 P22221 P22001 Com'1. Com'1. P22222 P22223 P22223 P22224 P22225 P22225	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	1 1 1 1 1 1 1 1
1.7	P22186	Gasket, Fuel Pump	1

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

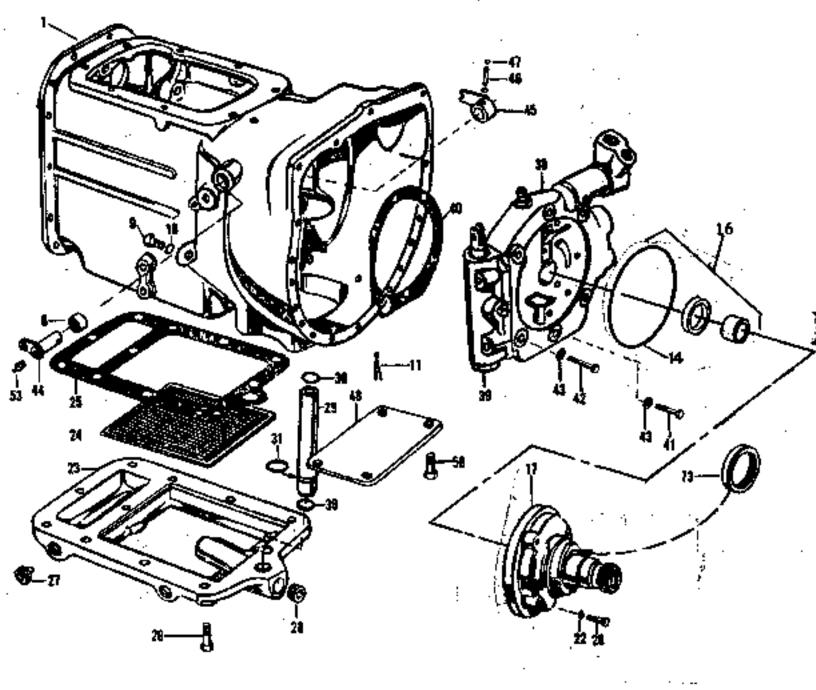
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	Will energy on an	
	FUEL PUMP &	NUMBER
<b>7</b> 9 (	FILTER	1845

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### TRANSMISSION CASE AND VALVE

Funk Reverser Transmission and gear bat ] (-3 TEAMY " 8000-90 in geAn box Check TRANNY Cold engine off Level surface



This complete Assembly use C-3.

ITEM	PART NO.	DESCRIPTION	QTY.
I	P22226		
8	P22227	Case Assembly Reprint (Mardla)	1
9	122228	Bearing (Needle) Cap. Filler	2
10	P22229		1
11	Com'l.	"O" Ring, Filler Cap Pin (3/16 x 1" Cotter)	1
12	P22230		1
13	F22231	Pump Assembly, Oil (Incl. Item 13) Seal	1
14	P22248	Gasket, Oil Pump	İ
16	P22607	Pump Kit	1
17		iomp with	1
20	Com'1.	$B(t) = \frac{1}{2} \frac{1}{$	
22	Com'l.	Bolt (5/16 x 1-3/4" NC, Hex.) Washer (5/16" Scaling)	4
23	P22234	Sump, Oil	4
24	P22235	Screen, Oil Sump	ĺ
25	P22249	Gasket	I
26	Com'l,	Bolt (7/16 x 1-3/8" NC, Hex.)	1
27	P22236	Plog, Drain	11
28	P22237	Plug, Oil Sump	1
29	P22238	Tube, Suction	2
30	P22239	"O" Ring, Tube	1
31	P22240	"O" Ring	2
38	P22241	Distributor Assembly	. 1
39	P22242	Valve Assembly	1
40	P22250	Gasket, Oil Distributor	1
41	Com'l.	Bolt $(3/8 \times 2^{\circ} \text{ NC, Hex.})$	1
42	Com'l.	Bolt (3/8 x 2-1/2" NC, Hex.)	.4 2 6
43	Com'l.	Washer (3/8" Sealing)	<u> </u>
44	P22243	Shaft	6
45	PZ2244	Lever	1
46	P22245	Pin, Headless	1
47	P22246	Ring, Snap	1
48	P22247	Cover	2
50	Com'l.	Bolt (5/8 x 1" NC, Hex.)	1
53	P15272	Grease Fitting (1/4" Drive)	2
			, 1 , ,

& CONTROL VALVE

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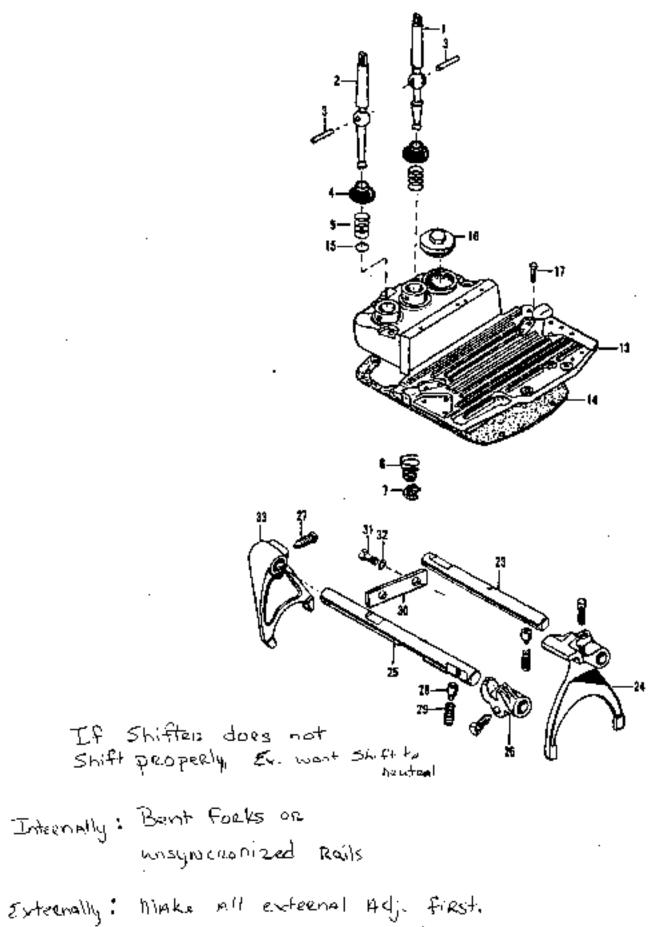
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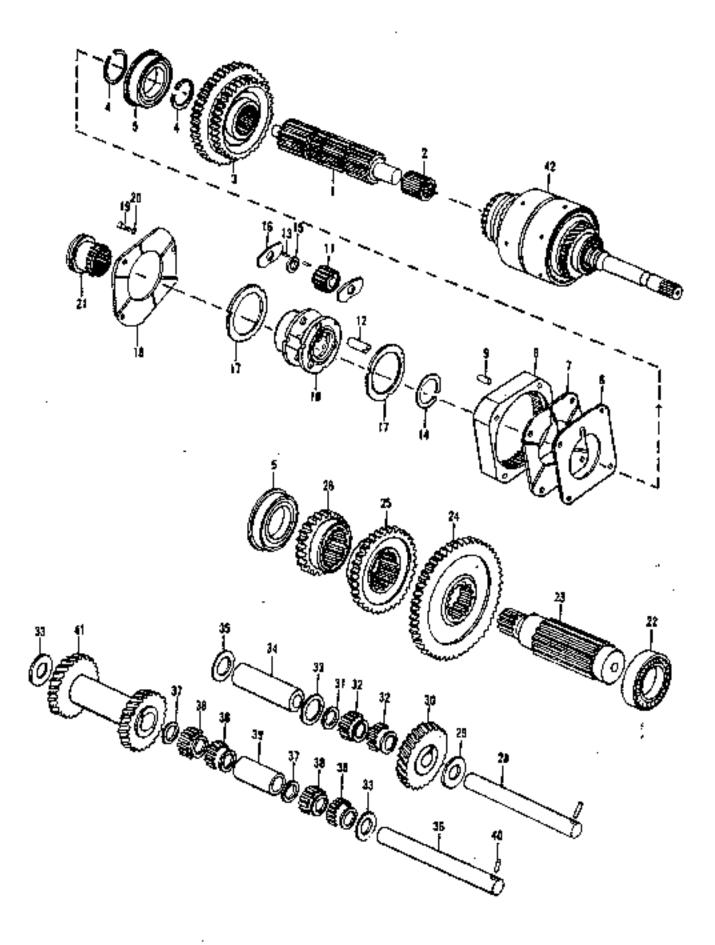
ITEM	PART NO.	DESCRIPTION	QTY.
1	P22252	Lever, Gear Shift	
2	P22253	Lover, Planetary Shift	1
2 3	P22254	Pin, Lever	1
4	P222\$5	Cover, Lever	2
5	P22256	Spring, Shifter Boot	2 2 2
б	P22257	Spring, Gear Shifter	
7	P22258	Scat, Gear Shift Lever Spring	1
13	P22261	Support, Gear Shift Lever	1
14	P22251	Gasket, Support	1
15	P22259	"O" Ring, Shift Lever	I
16	P22260	Plug, Filler (2-5/16" Dia.)	1
17	Com'l.	Bolt, Support to Transmission	1 2
		(7/16 x 1-1/4" NC, Hex.)	4
17	Com'l.	Bolt, Support to Transmission	
		(7/16 x 2" NC, Hex.)	2
17	Com'l.	Bolt, Support to Transmission	•
		(7/16 x 3" NC, Hex.)	2
23	P22263	Rail, intermediate and High	,
24	P22264	Fork, Intermediate and High	1
25	P22265	Rail, Shifter, Planetary	1
26	P22267	Selector, Planetary	1
27	P22271	Screw, Fork (3/8" NF, Dog Pt. Sw. Hd.)	1
28	P22268	Plunger, Shift Rail	3
29	P22269	Spring, Shifter Rail	2
30	P22270	Plate, Gear Shift Lever Stop	3 1 2 2
31	Com'l,	Bolt, Stop Plate (3/8 x 3/4" NC, Hex.)	2
32	Com'l.	Washer, Stop Plate (3/8" Lock]	2 2
33	P22266	Fork, Planetary Shift	1
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	GEAR SHIFT	PUBLICATION
23	GROUP	1847

INSTANT REVERSE TRANSMISSION

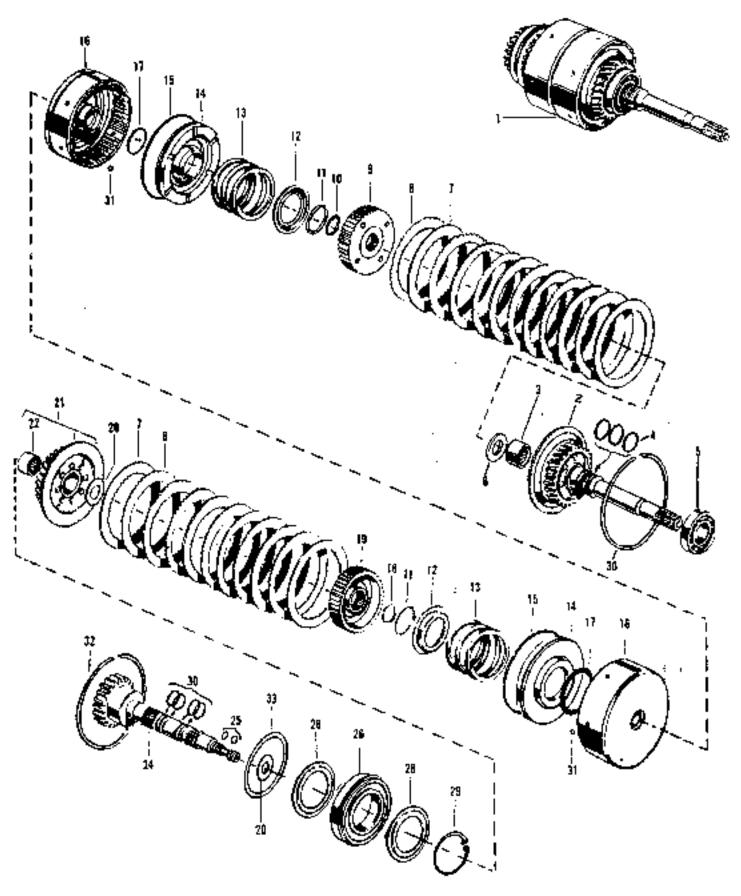


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<u>item</u>	PART NO.	DESCRIPTION	<u>qty</u> .
1	P22272	Shaft, Main (22 Tceth, 18 Splines)	
2	P22273	Bearing, Pilot Main Shaft (Roller)	1 1
3	P22274	Gear, Main Shaft, Intermediate and High	i
		(47 - 30 Teeth)	•
4	P22275	Ring, Snap, Rear Bearing (External)	2
5	P22276	Bearing, Ball	2
6	P22277	Shim, Planetary	1
7	P22278	Plate, Front Cover	ĩ
8	P22279	Gear, Planetary Ring	1
9	P22280	Pin, Dowel (3/8 x 1-1/8")	2
10	P22281	Carrier, Planetary Pinion	2 1 3 3
11	P22282	Pinion, Planetary	3
12	P22283	Shaft, Planetary Pinion	3
13	P22284	Roller, Pinion (16 Per Path)	96
14	P22285	Ring, Snap (External)	1
15	P22286	Washer, Roller, Planetary Pinion	3
16	P22287	Wesher, Pinion Thrust	6
17	P22288	Washer, Gear Thrust	2
18	P22289	Plate, Rear Cover	2 1 4
19	Com'l.	Bolt (3/8 x 2-7/8" NC, Hex.)	4
20 21	Com'). P22290	Washer (3/8" Lock)	3
22		Coupler, Planetary Shift	1
23	P22291 P22292	Bearing, Countershaft, Front (Ball)	1
24	P22293	Countershaft (17 - 21 Teeth)	1
25	P22293	Gear, Countershaft Driven (45 Teeth)	I
26	P22295	Pinion, High (39 Teeth - 17 Splines)	1
28	P22296	Pinion, Intermediate (22Teeth - 17 Splines)	] 1
29	PZ2297	Shaft, Idler Gear (3/4 x 8-25/32") Wesher Idler Gear (1/4 x 8-25/32")	1
30	P22298	Washer, Idler Gear (Inner)	1
31	P22299	Gear, Idler (28 Teeth)	1
		Spacer, Bearing, Idler Shaft (3/4 x 1-7/64 x 1/16")	3
32	P22300	Bearing, [d]er Shaft & Countershaft	100
33	P22301	Washer, Thrust, Idler & Countershafts (57/64 x 1-3/4 x I/16")	3
34	P22302	Spacer, Idler Gear	•
35	P22303	Washer, Spacer, Idler Gear	1
36	P22304	Countershaft (13/16 x 8-25/32")	. 1
37	P22305	Washer, Countershaft Bearing	1
		$(55/64 \times 1-5/32 \times 1/16")$	<b>6</b> ·
39	P22306	Spacer, Countershaft Bearing	1
40	· D10776	$(7/8 \times 1-1/8 \times 3-1/16")$	
41	P10375	Pin, Shaft (1/4 x 1" Roll)	2
42	P22307	Gear (25-27 Teeth)	1
44	P22308	Shaft and Clutch Assembly	1

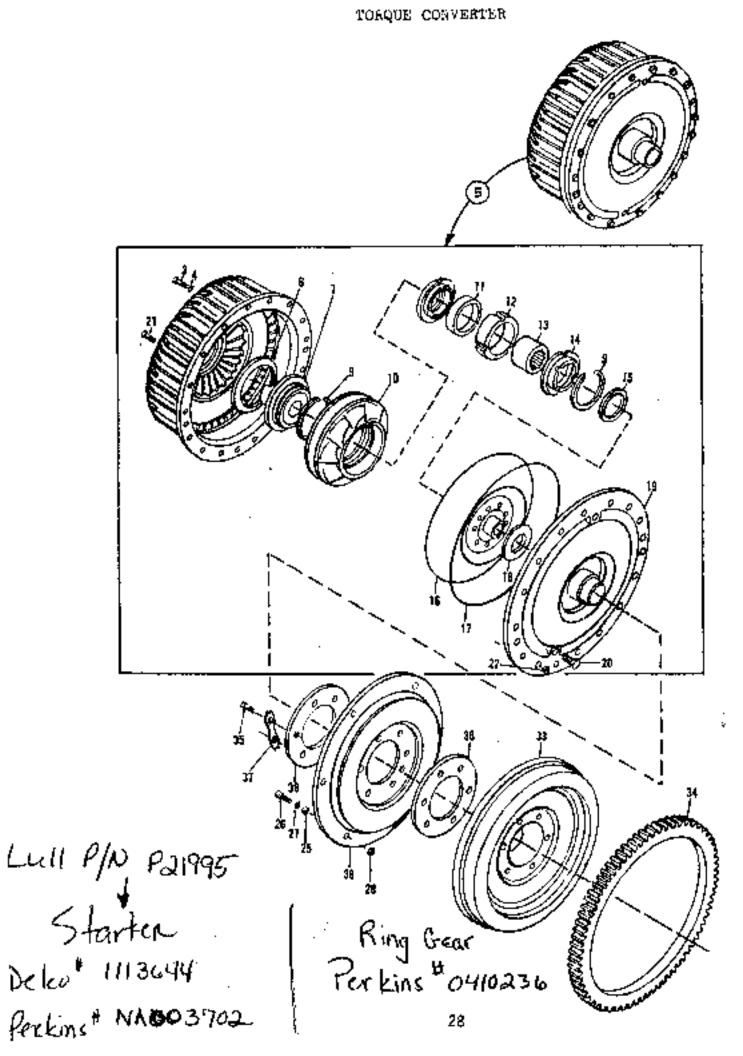
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GEAR GROUP,	PUBLICATION
INTERNAL	1848

FUNK REVERSES SEAFT AND CLUTCH ASSESSED



ITEM	PART NO.	DESCRIPTION	QTY.
1	P22308	Shaft and Clutch Assembly	1
2	P22309	Shaft Input Coop (Incl. ) and the	
3	P22310	Shaft, Input Gear (Incl. ltem 3,4,5) Bearing (Needle)	3
4	P22311	Ring (1-3/8 x 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	P22519	Spring, Clutch	· 2
14	P22320	Piston, Clutch	2
15	P22321	"O" Ring, Seal	2 2 2 2
16	P22322	Cylinder (Incl. Item 17)	2
17	P22323	"O" Ring	
18	P22324	Ring, Snap	1
19	P22325	Hub, Clutch (45 Ext. and 22 Int. Teeth)	1
20	P22326	Washer, Thrust	1
21	PZ2327	Gear (Incl. Item 22)	2
22	P22328	Bearing	1
24	P22329	Shaft Assembly, Output (Incl. Item 25)	1
25	P22330	Ring (5/8 x 3/32")	1
26	P22331	Bearing, Output Shaft	1
28	P22332	Slinger	1.
29	P22333	Ring, Snap	2
30	P22334	Ring (I-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 x 4-5/8 x 1/64")	
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27	SHAFT	& CLUTH		NUBLICATION HUMBER 1849

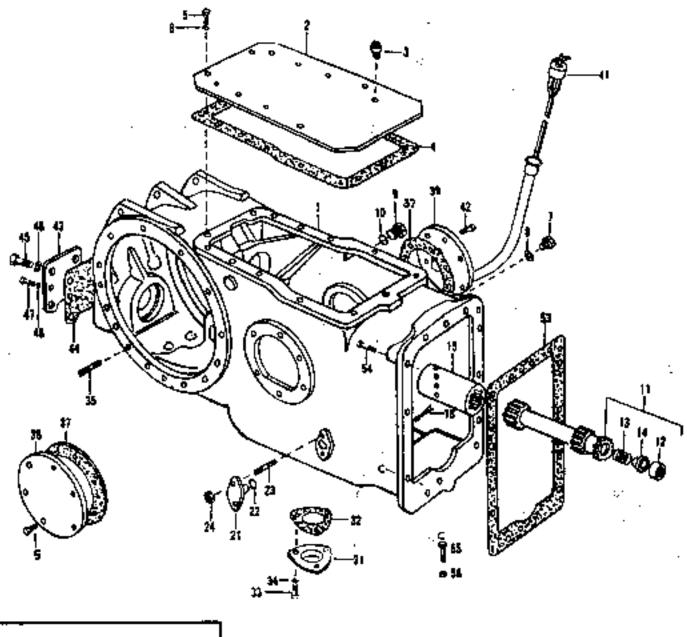


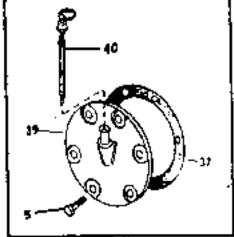
ITEM	PART NO.	DESCRIPTION	<u>qty.</u>
1	P22339	Converter Assembly, Torque	1
3	Com'l.	Bolt (1/4 x 5/8" NC, Hex.)	8
4	Com'l.	Washer (1/4" Lock)	8
5	P22340	Housing, Impeller (Incl. Items 3, 4, 6 & 7)	1
6	P22341	Ring, Sealing	1
7	P22342	Hub, Impeller	1
9	P22343	Ring, Snap	2
10	P22344	Stator Assembly	1
11	P22345	Clutch Assembly	1
12	P22346	Race, Outer	1
13	P22347	Race, Inner	1
14	P22348	Washer, Thrust	2
15	P22349	Nasher, Thrust	2
16	PZZ350	Turbine Assembly	1
17		Gasket, Converter Cover (Outer)	1
18	P22352	Washer, Turbine Thrust	1
19		Cover Ass mbly	1
20	P22354	Plug, Cover (1/8 - 27 P.T.)	2
21		Bolt, Cov r Retaining	18
22	Com'l.	Nut, Bolt (5/16" NF, Hex., Lock)	18
25	P22356	Spacer, Converter to Drive Plate	6
26	Com'l.	Screw (S/:6 x 1-1/8" NF, Hex. Skt. Hd.)	6
27	Com'l.	Washer (5/16")	6
28	Com'l.	Nut, Converter Mounting (5/16" NF, Hex., Lock)	6
33	P22205	Flywheel (Incl. Item 34)	1
34	P22206	Ring, Starter	.1
35 36	Com'l.	Bolt $(1/2 \times 1 - 1/2'' \text{ NF, Hex.})$	2
37	P22208	Shim, Flywheel to Crankshaft Tabuarbay	2
38	P22209 P22204	Tabwasher Dista Comunitation Details	1
39	P22204 P22207	Plate, Converter Drive Plate, Drive Plate Potniniae	1
		Plate, Drive Plate Retaining	*

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This Assembly use 80-90w

ITEM	PART NO.	DESCRIPTION	<u>qty.</u>
1	P22360	Housing, Differential	1
2	P22362	Cover, Differential Housing	i
2 3 4	P22363	Breather Assembly	
	P22361	Gasket, Differential Cover	1
5	Com'l.	Bolt, Cover to Differential Housing (7/16 x 7/8" NC, Hex.)	25
<b>6</b>	Com†1.	Washer, Cover to Differential Housing (7/16" Lock)	13
7	P22364	Plug, Housing Drain	1
8	P22365	Washer, Plug	
9	P22366	Plug, Housing	1 1 2
10	P22367	Washer, Plug	2
11	P22370	Shaft Assembly, Rear Drive	1
		(Incl. Items 12, 13 & 14)	I
12	P22373	Bearing, Shaft	1
13	P22371	Spring, Shaft	1
14	P22372	Abutment, Shaft	Ţ
15	P22369	Coupling, Rear Drive	<b>L</b> 1
16	Com'l.	Cotter Pin (3/16 x 2-1/2")	
21	P22377	Pin, Pump Support	1 · 2 2
22	P22378	"O" Ring, Pump Support Pin	2
23	P22379	Stud (5/16 NC - NF x 1-1/16")	4
24	Com'l.	Nut (5/16" NF, Hex.)	4
31	P22380	Housing Cover, Bottom	1
32	P22381	Gasket, Cover Plate	1
33	Com'l.	Bolt (5/16 x 5/8" NC, Hex.)	3 .
34	Com'l.	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
38	P22385	Side Cover and Tube Assembly, Oil Filler	1
39	P22384	Side Cover with Dipstick Access	î
40	P22386	Dipstick, Oil Level (Short)	ī
41	P22387	Dipstick, Oil Level (Long)	ī
43	P22374	Cover	i t
44	P22375	Gasket, Cover	ĩ
	< Com'1.	Bolt, Cover $(1/2 \times 7/8" \text{ NG}, \text{Hex.})$	4
46	Com'i.	Washer, Cover Bolt (1/2" Lock)	. 4
47	Com'l.	Bolt, P.T.O Cover (716 x 7/8" NC, Hex.)	2
48	Com <sup>1</sup> 1.	Washer, Cover Bolt (7/16" Lock)	2
53	P22368	Gasket, Differential Housing to Transmission	1
S4	Com'l.	Bolt (7/16 x 2-1/4" NC, Hex.)	5
\$5	Com'1.	Bolt (7/16 x 1-7/8" NF, Hex.)	11
56	Com'l.	Nut (7/16" NF, Hex.)	11

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HOUSING	1851

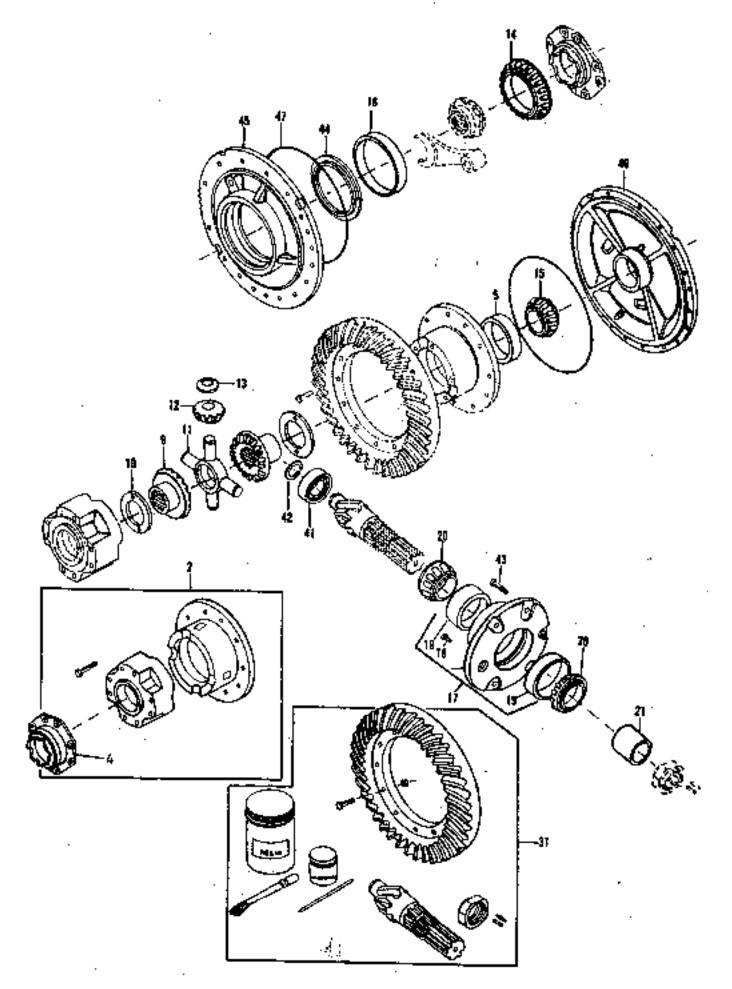
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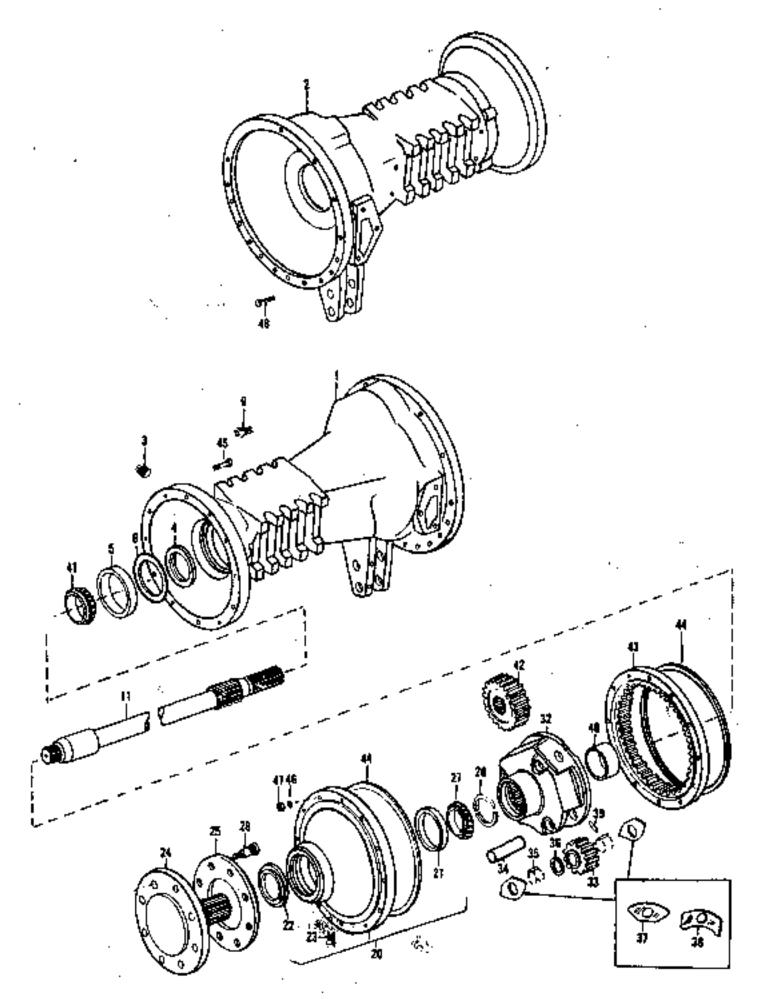
<u>ITEM</u>	PART NO.	DESCRIPTION	QTY.
4	P22595	Cap, Coupling	1
2	P22389	Case Assembly (Matched) Incl. Item 4	1
5	P22390	Cup, Bearing, Case	1
9	P22391	Gear, Side (14 Teeth, 39 Splines)	2
10	P22392	Washer, Thrust (3 x 4-5/32 x 1/16")	Ζ.
11	P22393	Cross, Pinion	1
12 .	P22394	Pinion (3-25/64" Dia.)	4
13	₽22395	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	ī
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	<b>₽22406</b>	Ring, Snap, Bearing Retaining	î
43	Com'l.	Bolt, Bearing Sleeve (9/16 x 1-1/4" NC, H	ex) 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	P22430	Shim, Bearing Pre-Load (.044"046")	x
44	P22411	Shim, Bearing Pre-Load (.049"051")	x
45	P22412	Plate, Differential Carrier (Left)	î
46	P22413	Plate, Differential Carrier (Right)	i
47	P22414	"D" Ring, Carrier Plate	4

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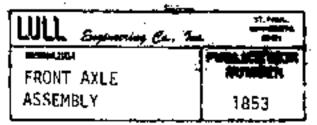
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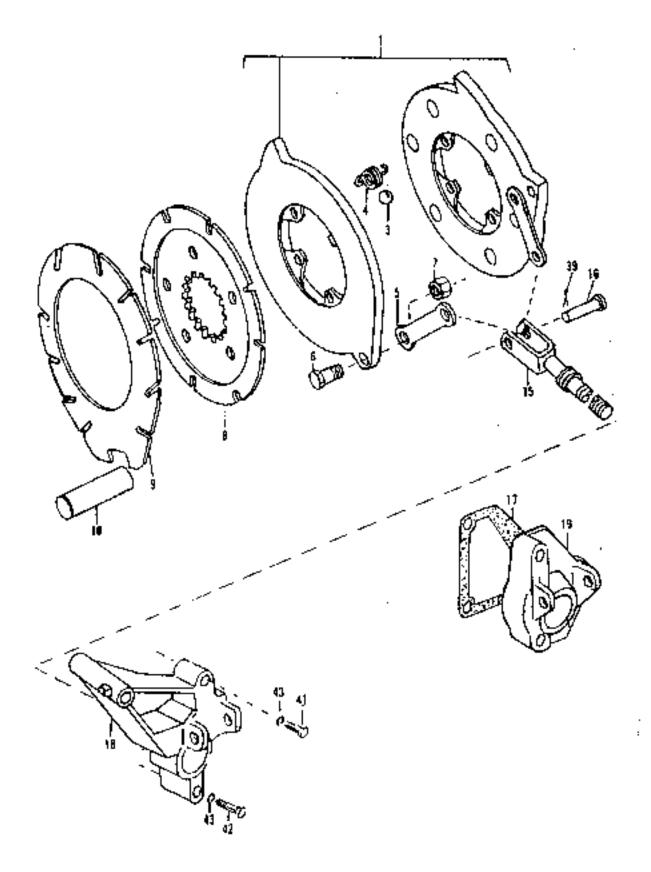


PART NO.	DESCRIPTION	<u>0</u> 77
P22415	Housing, Axle (Left)	1
P22416	Housing, Axle (Right)	
P22417	Plug, Drain (1/2" P.T. Sq. Hd.)	1 2 2
P22418	Seal, Axle Shaft	2
P22419	Cup, Axle Shaft Bearing	2
P22420	Shim, Axle Bearing (.005")	x
P22421	Shim, Axle Bearing (.010")	x
P22422	Shim, Axle Bearing (.015")	x
Com'l.	Screw (5/16 x 13/16" NF, Flat Sckt, Hd.)	4
P22423	Shaft, Front Axle	2
P22425	Covor Assembly, Front Axlc Drive	2
	(Incl. Items 21, 22 & 23)	-
P22427	Cup, Bearing	2
P22429	Seal, Oil	2
P22430	Plug, Drain	2
P22431	Axle, Wheel	2
P22432	Shield, Dust	2 2 2 2 2
P22433	Wheel Lug	16
P22435	Cone, Cover	
P22437	Ring, Snap	2
P22438	Carrier, Planetary Pinion	2 2 2
P22440	Pinion, Planetary	6
P22441	Shaft, Planetary	6
P22442	Roller (29 Per Path)	348
P22443	Washer, Roller Spacer	5
	(1-3/64 x 1-17/64 x 1/16")	0
P22444	Washer, Thrust	8
P22445	Washer, Thrust	4
P22446	Pin, Pinion (Spirol)	6
P22447	Bushing, Carrier	
P22449	Cone, Front Axle	2
P22451	Gear, Axle Shaft Sun	2 2 2 4
P22452	Gear. Planetary Ring	2
P22453	Gasket, Ring Gear	2
Com'l,	Bolt (7/16 x 3-7/8" NF, Hex.)	
Com'l.	Washer $(7/16" \text{Lock})$	24
Com'l.	Nut (7/16" NF, Hex.)	24
Com'1.	Rolt (1/2 $\times$ 1.7/00 MC $\to$	24
	Bolt (1/2 x 1-7/8" NC, Hex.)	16

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For S/N 102 & 106 Use as Follows: ۹. ltem #11 P22424 Item #20 P22426 Itom #21 P22428 Item #27 P22436 Item #32 P22439 Item #40 P22448 Item #41 P22450 Item #28 P22437





ITEM	PART NO.	DESCRIPTION	<u>qty</u> .
1	P22455	Actuator Assembly, Brake (Incl. Items 3 thro 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 2 2
16	P22465	Pin, Rod	
17	P22466	Gasket, Bracket	2
18*	P22467	Bracket, Brake Lever (Left)	1
19*	P22468	Bracket, Brake Lever (Right)	1
39	Com'1.	Cotter Pin $(5/32 \times 1-1/4^{n})$	2
41	Com'l.	Bolt (3/8 x 2-1/4" NC, Hex.)	4
42	Com <sup>1</sup> 1.	Bolt (3/8 x 2-3/4" NC, Hex.)	2
43	Com'l.	Washer (3/8" Lock)	6

For S/N 102 Use As Follows:

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Item	#18	P22485
Item	#19	P22484

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DISC BRAKE ASSEMBLY	PUPLICATION INVINIAR 1854

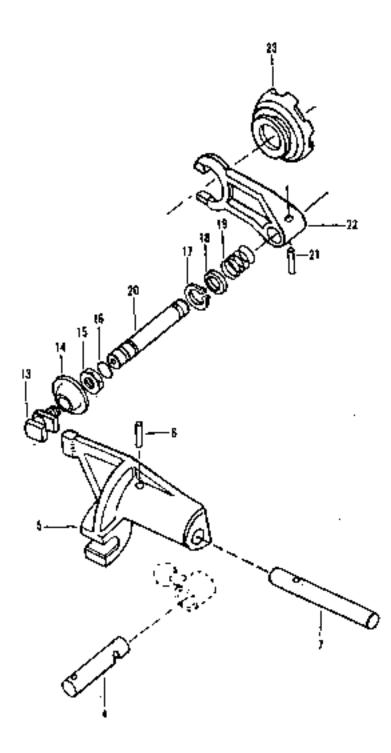
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ITEM	PART NO.	DESCRIPTION	QTY.
4 5 6 7 13* 14 15 16 17 18 19 20	P22502 P22503 P25504 P22505 P22506 P22506 P22507 Com'1. P22508 P22509 P22510 P22511 P22512	Pin, Handle Pivot Lever Pin (3/16 x 1-1/4" Groove) Shaft, Lever Clevis, Differential Lock Boot,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

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\* For S/N 102 Use P22515

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DIFFERENTIAL	
LOCK ASSEMBLY	1855

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Gasket Sei. Top Overhaul *Gasket Sei, Top Overhaul Gasket Sei, Bottom Overhaul *Gasket Set, Bottom Overhaul Starter *Starter Starter Starter Solenoid *Starter Solenoid Alternator (37 amp.) *Alternator (61 amp.) Glow Plug (Mestor)		P22176 P22177 P22178 P22179 P22554 P22555 P22555 P22556 P22558 P22558 P22558
Glow Plug (Heater)	1.4	P22359 P22210

\* For S/X 102 & 106 only

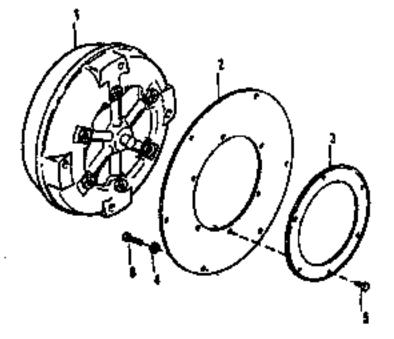
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TTEM	PART NO.	DESCRIPTION	OTY.
1 2 3 4 5 6	P25450 P25451 P25452 P25675 P13515 P25660	Converter Assembly, Torque Plate, Drive Plate, Reinforcement Washer, Drive Plate Bolt (3/8 X 1/2 NF, Hex, Lock, Grade 8) Bolt (M8 - 1.25 X 25mm Hex.)	1 1 6 6 6

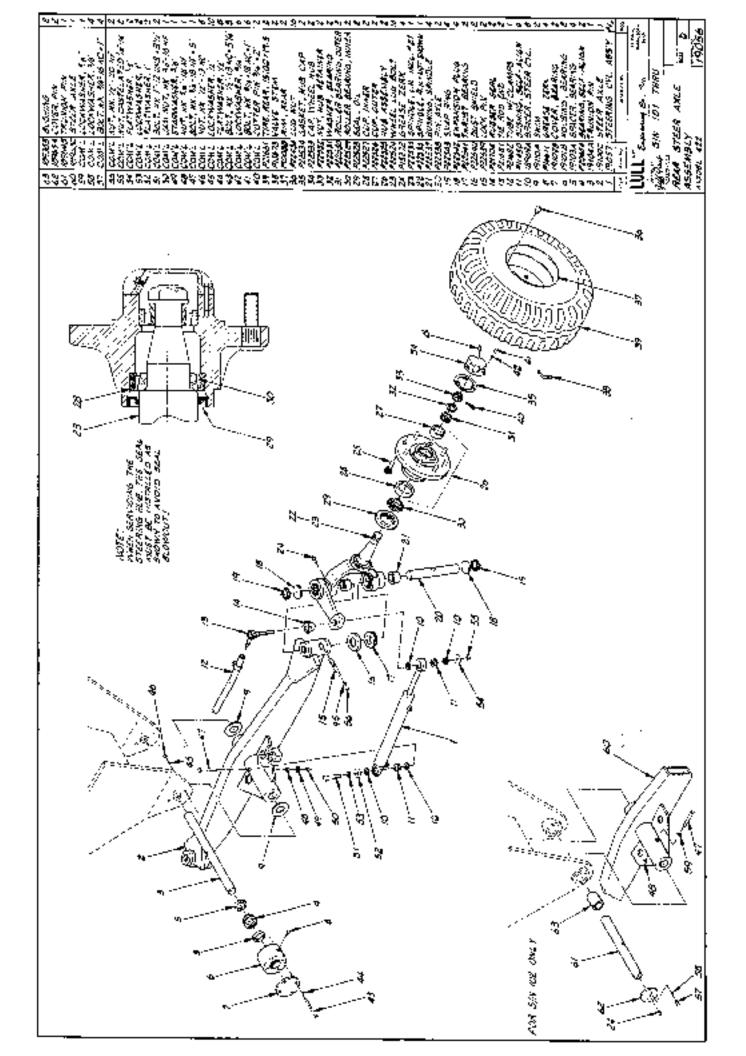
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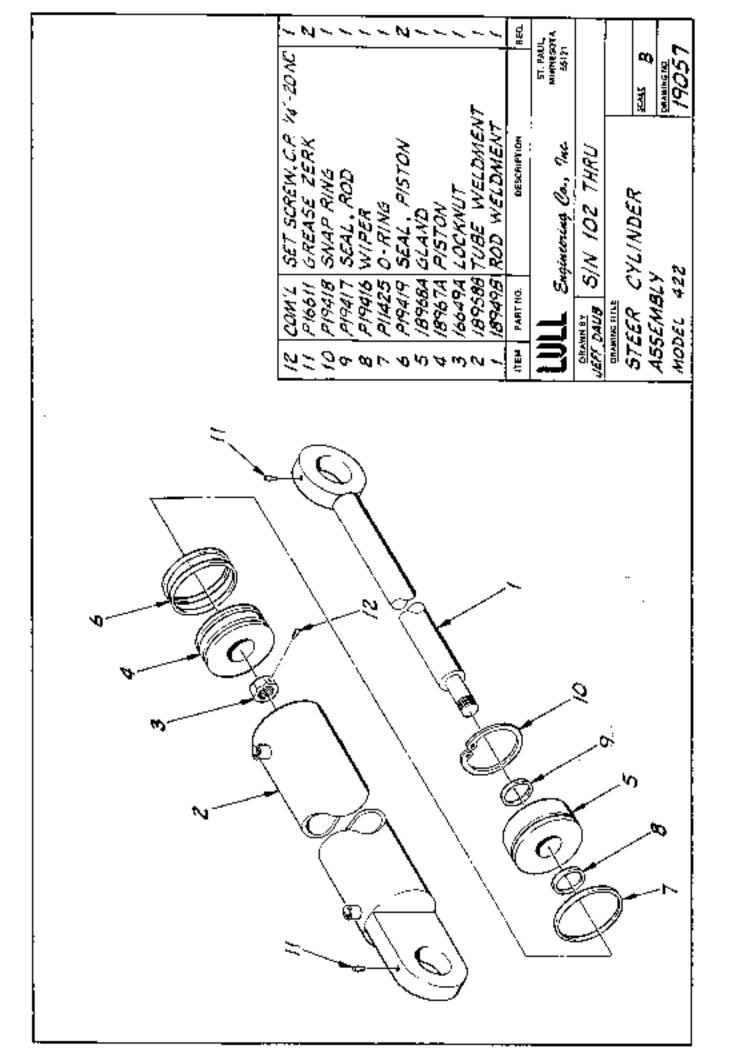
S/N 169, 171-173, 175-177, 181, 182, 184 & 186 ONLY.

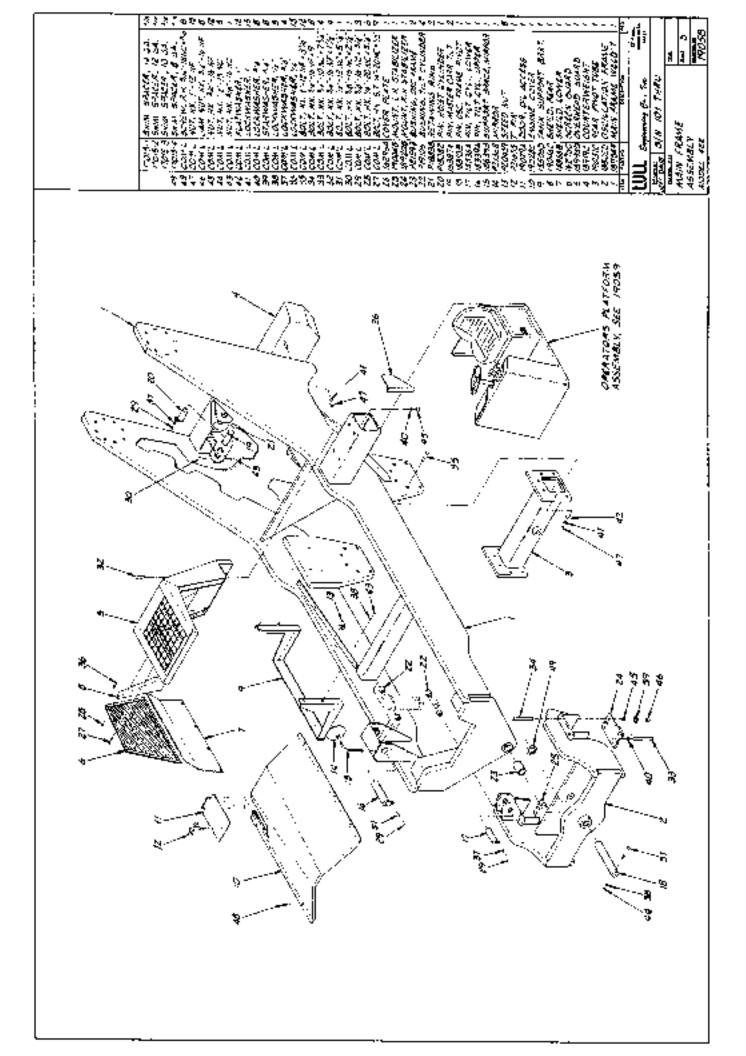
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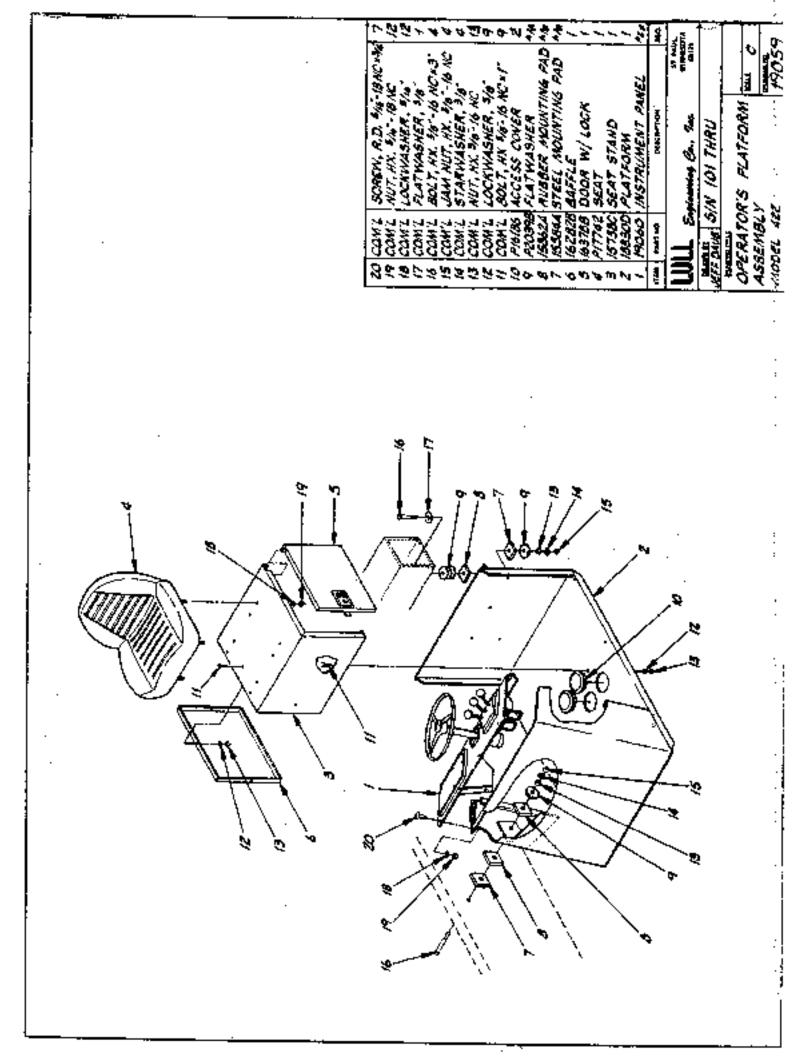
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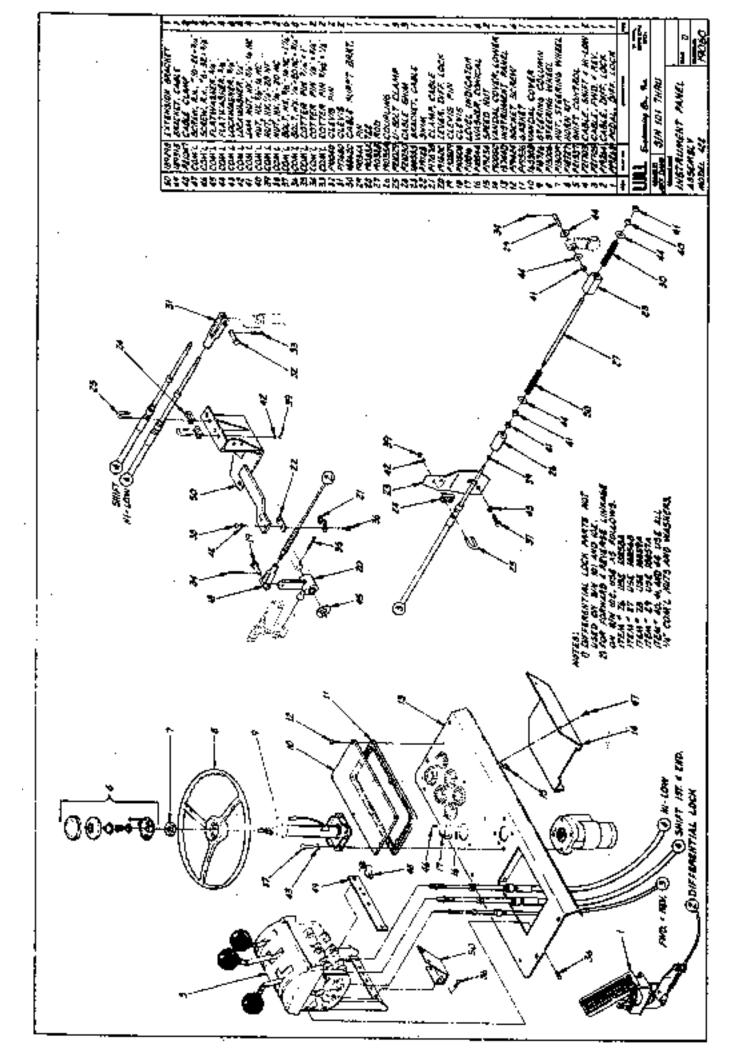
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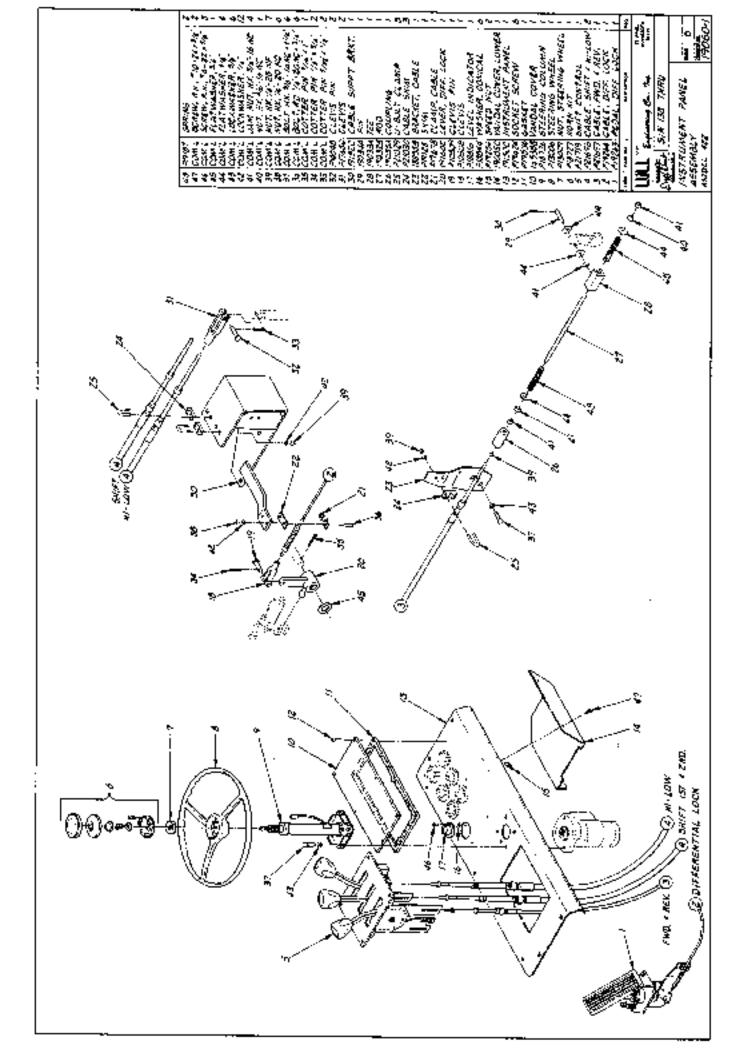


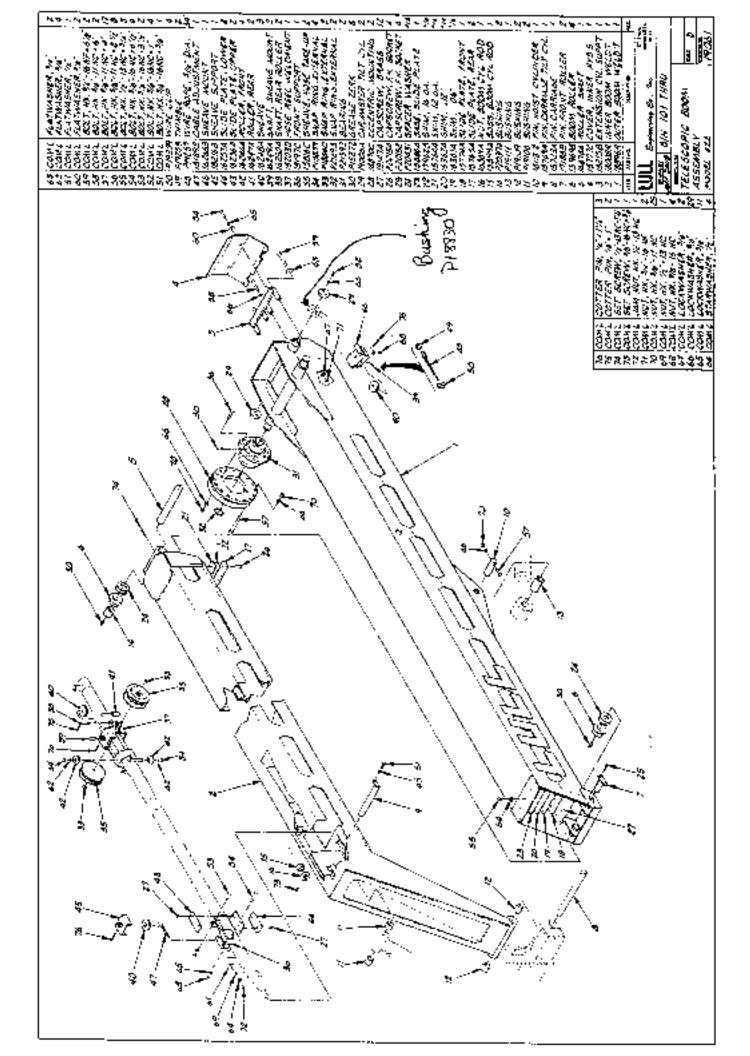


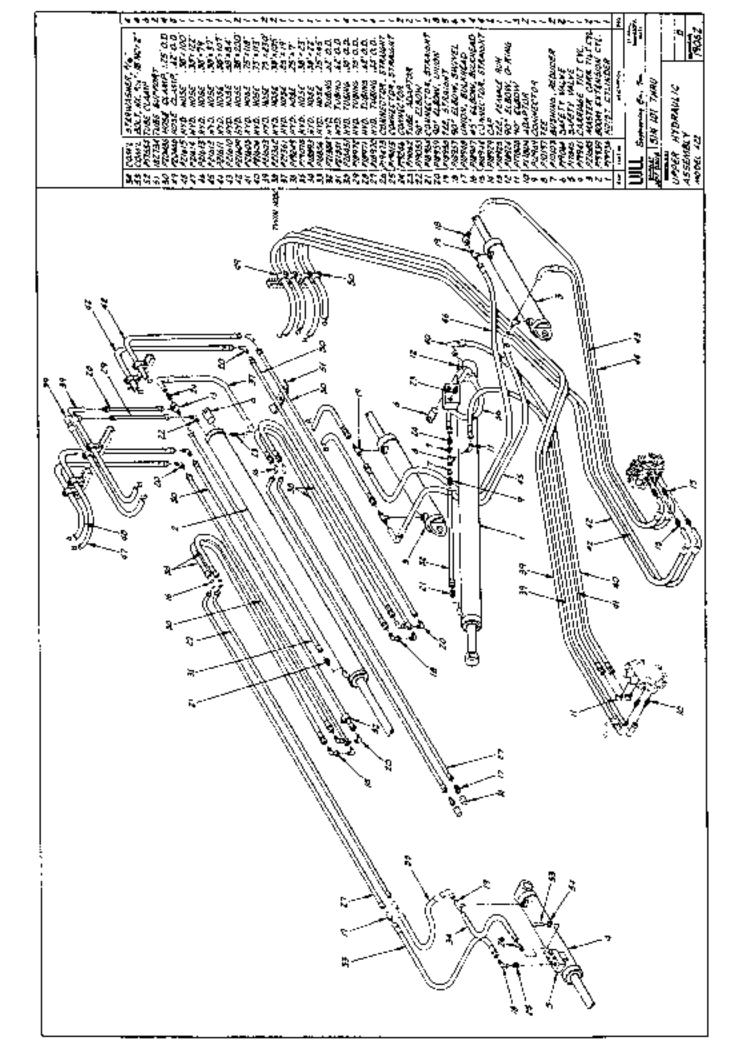


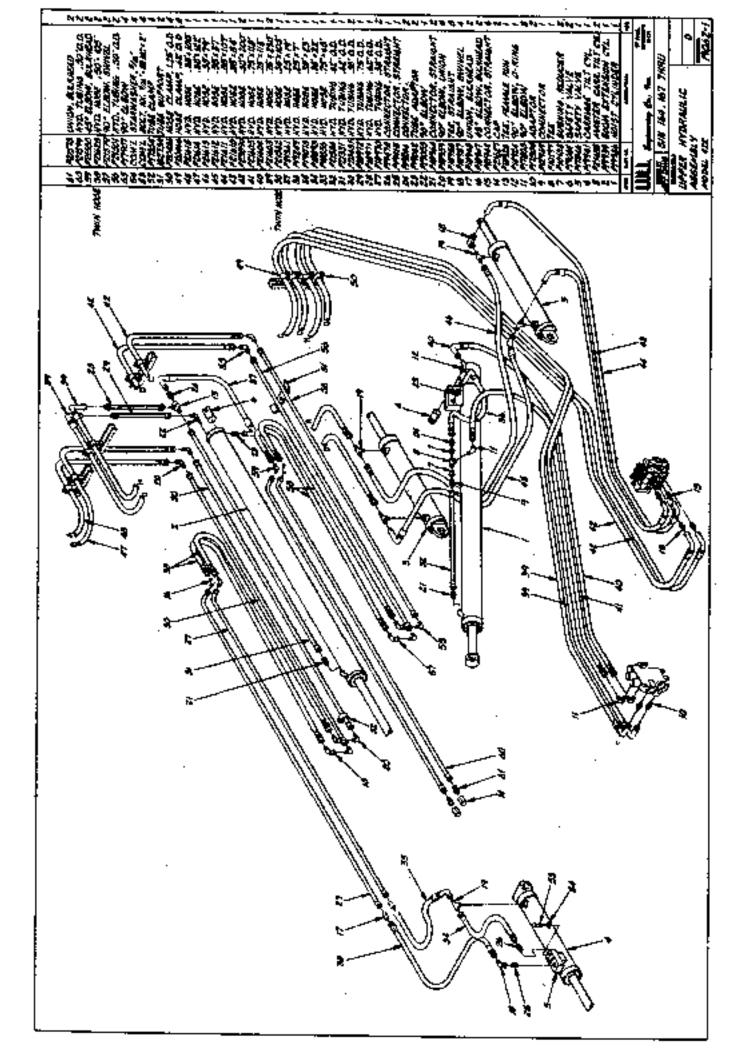


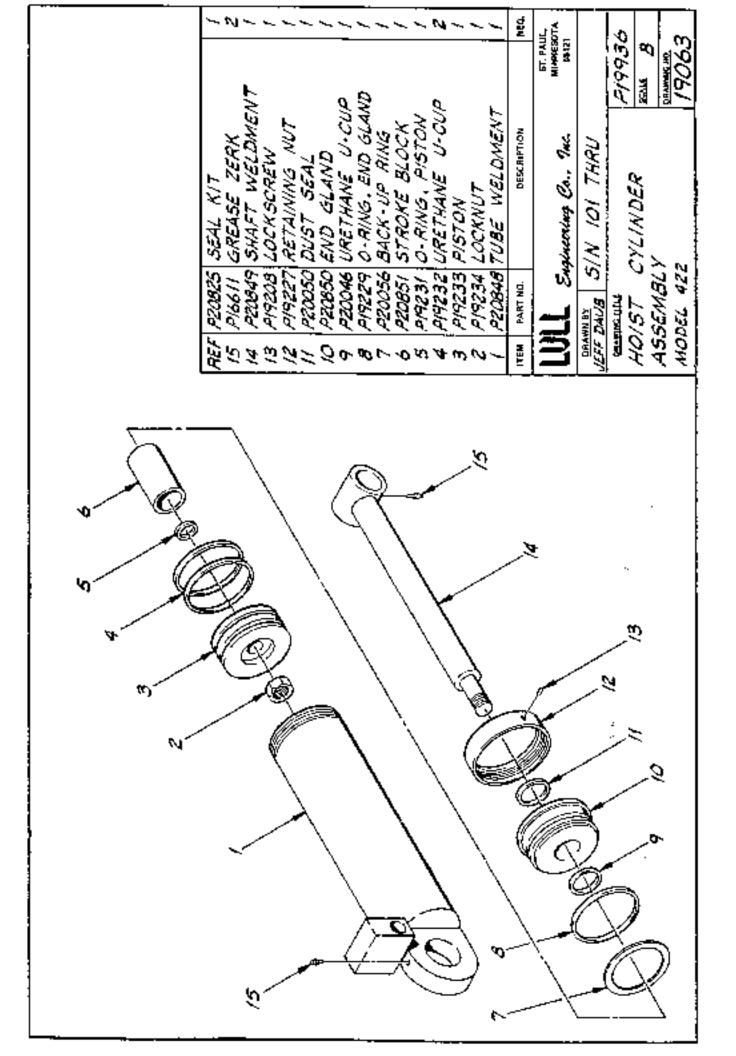


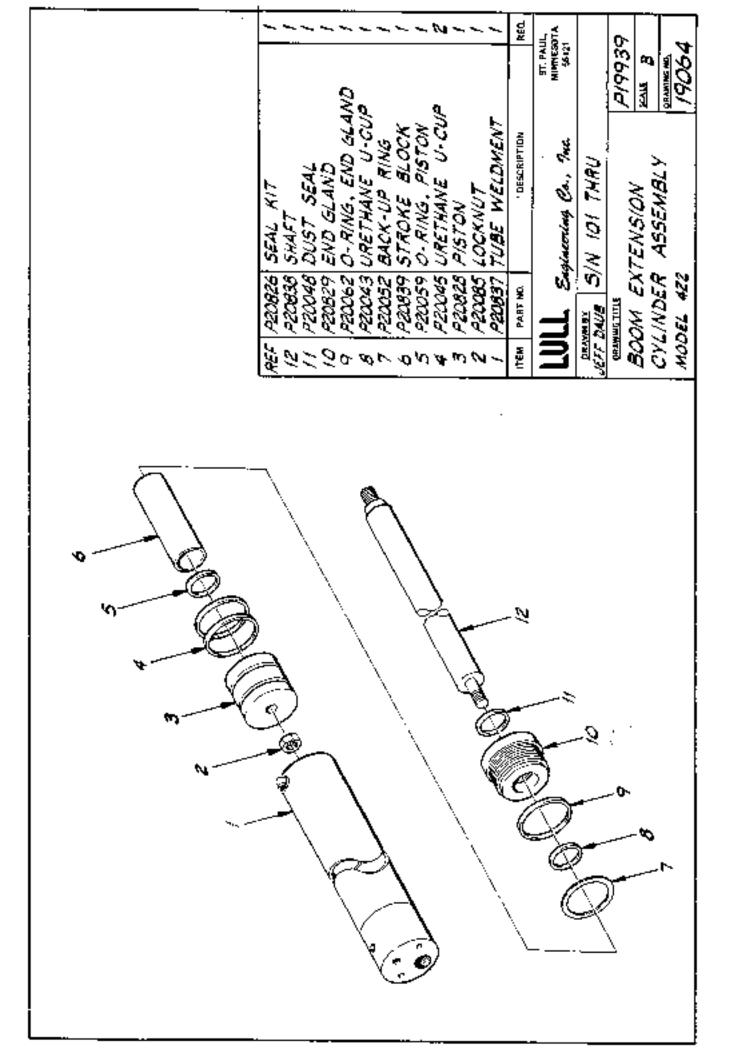


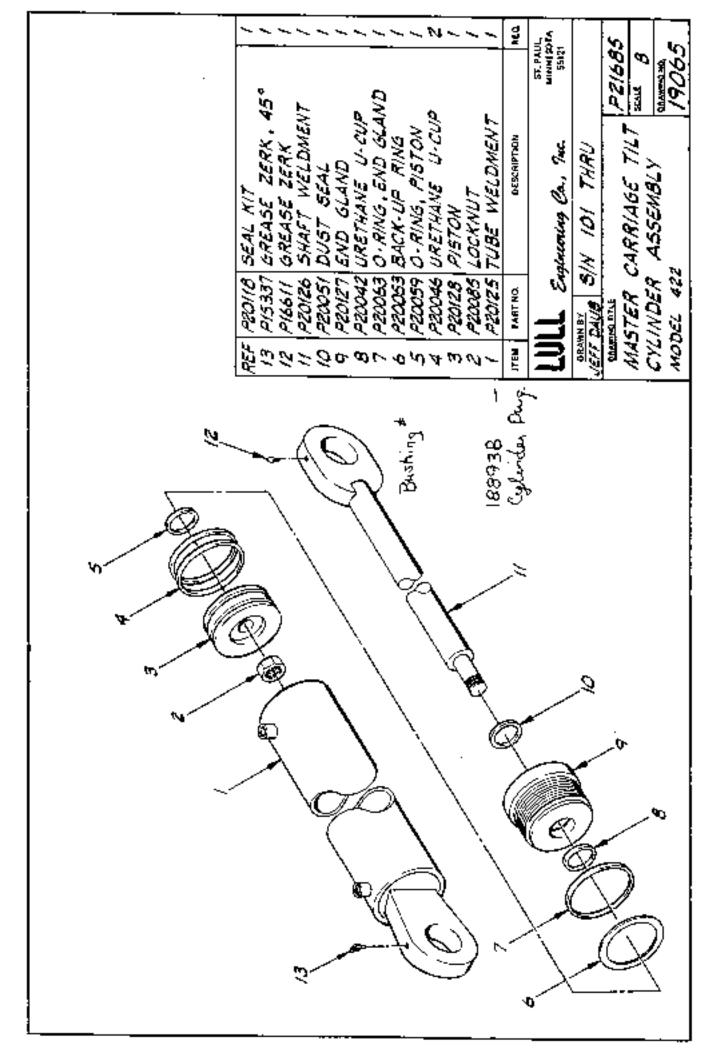


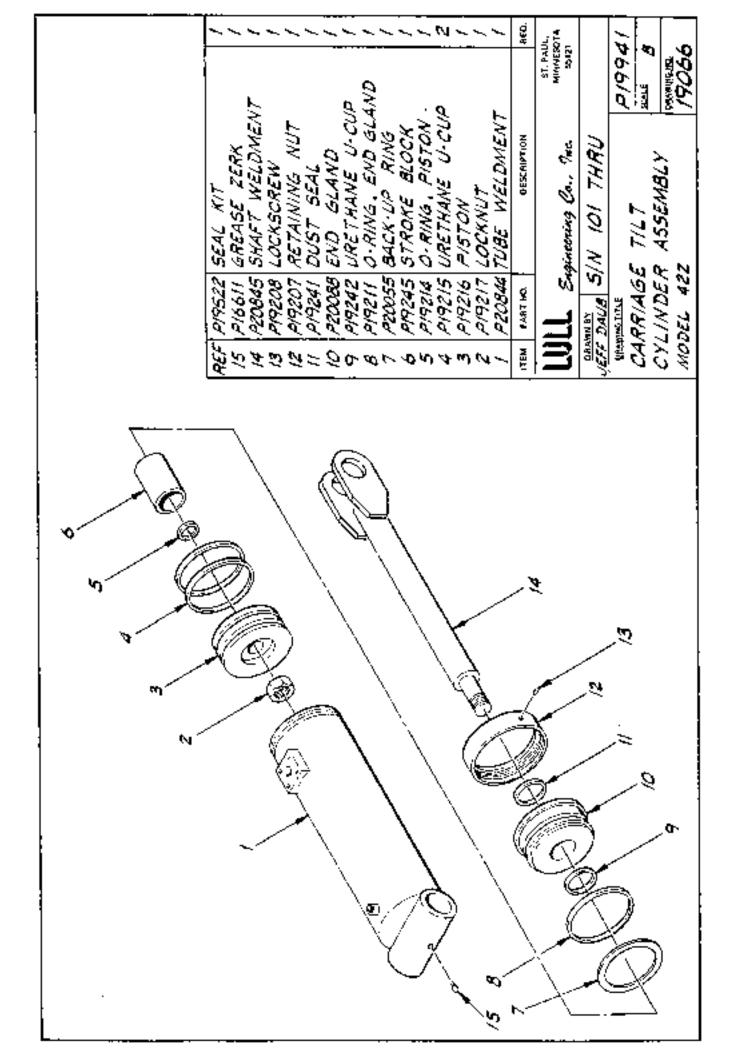


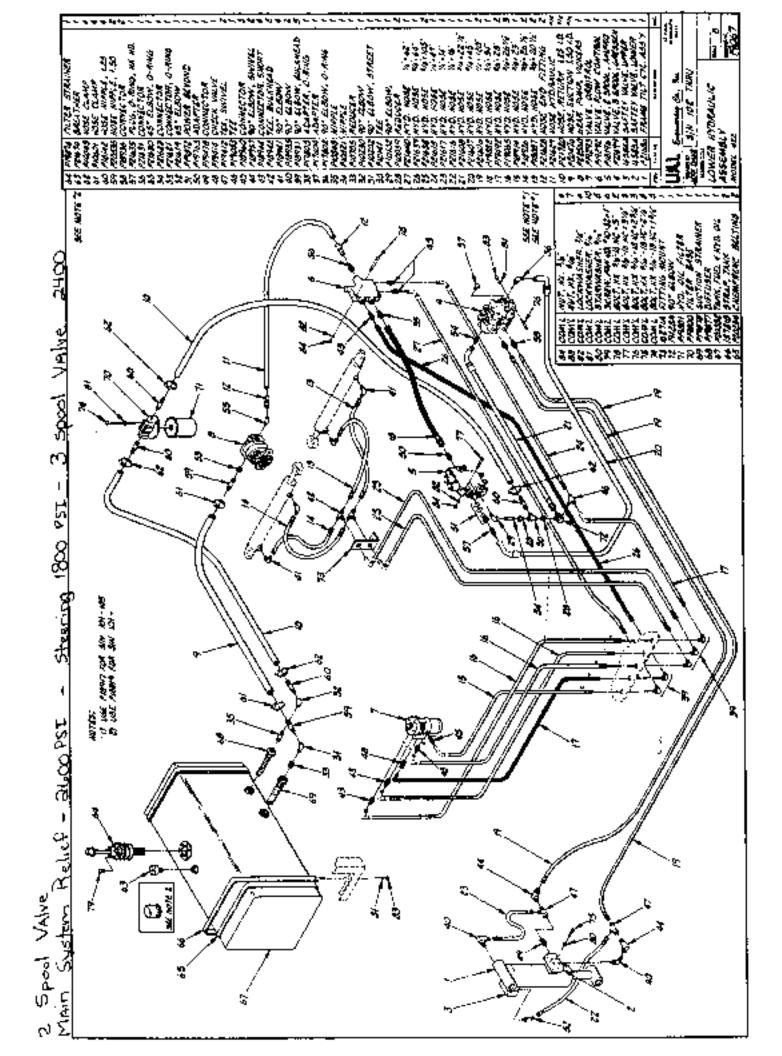


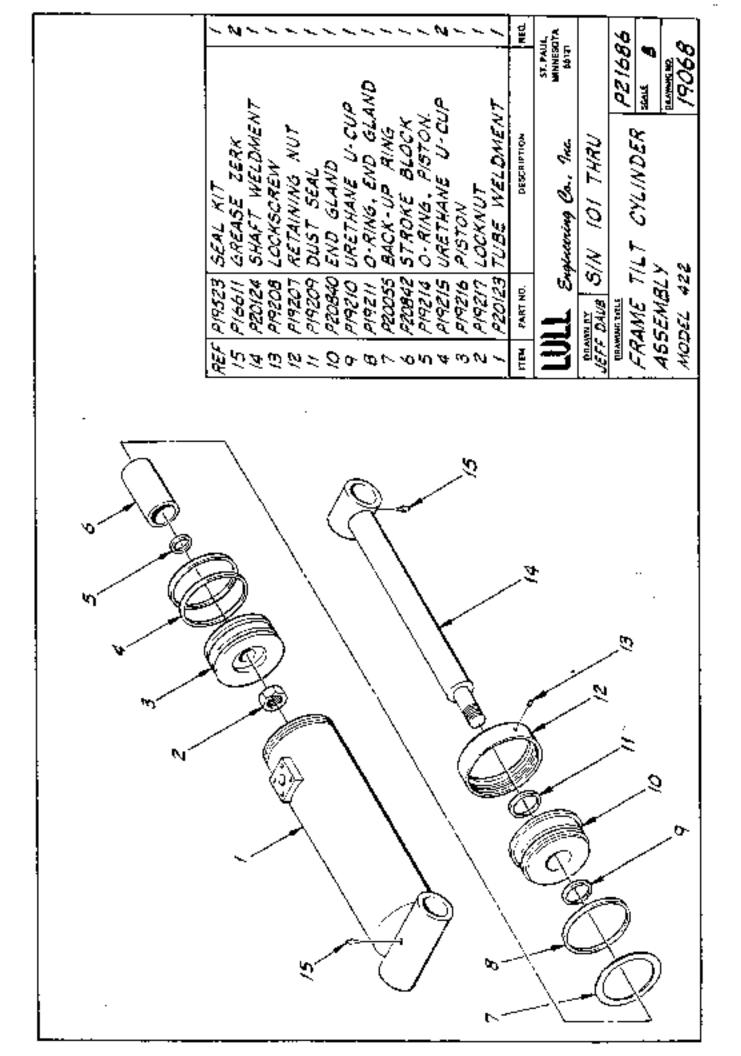


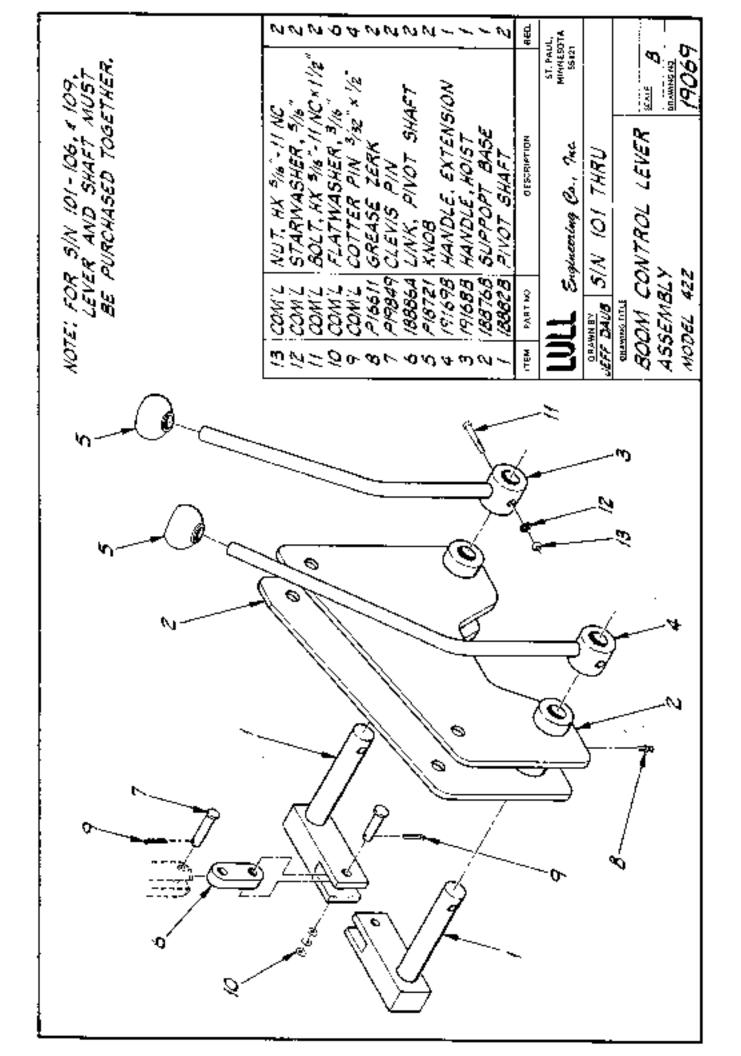


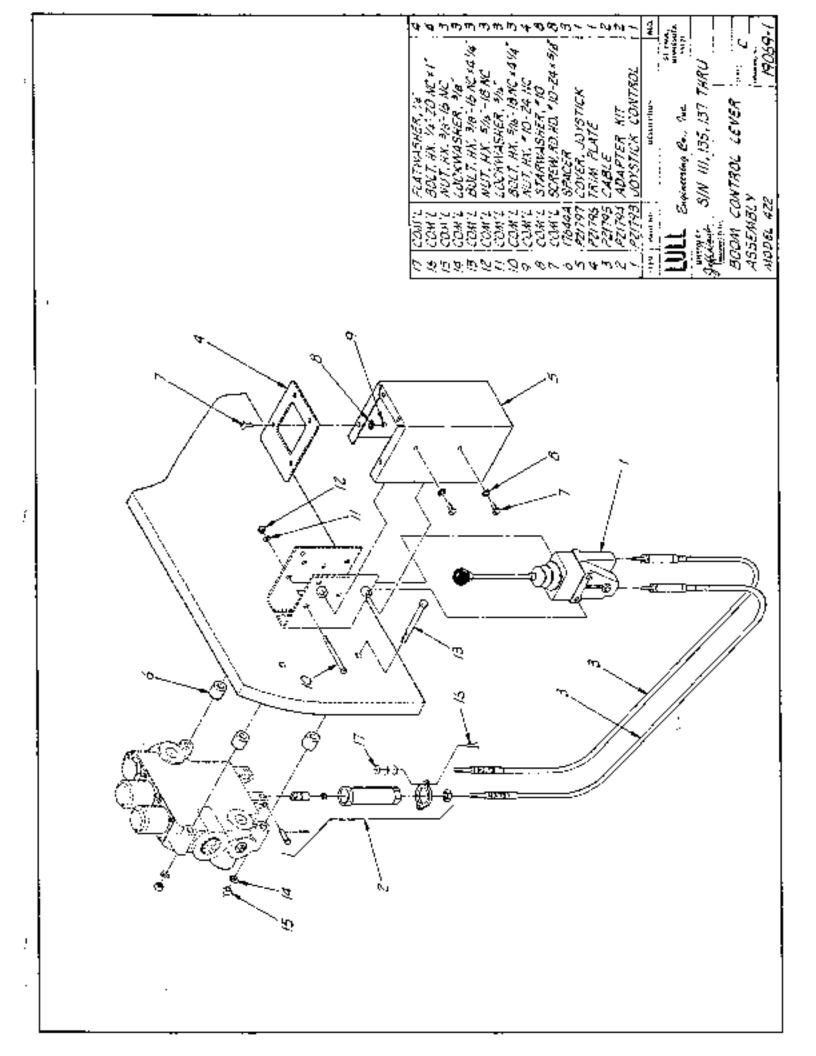


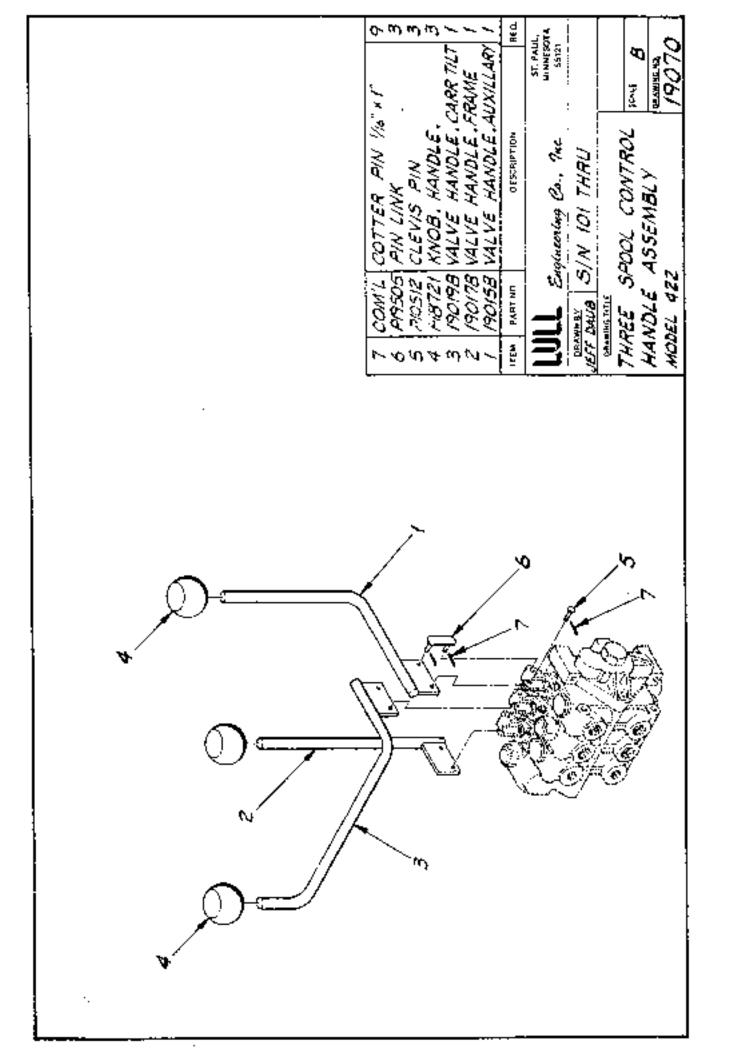


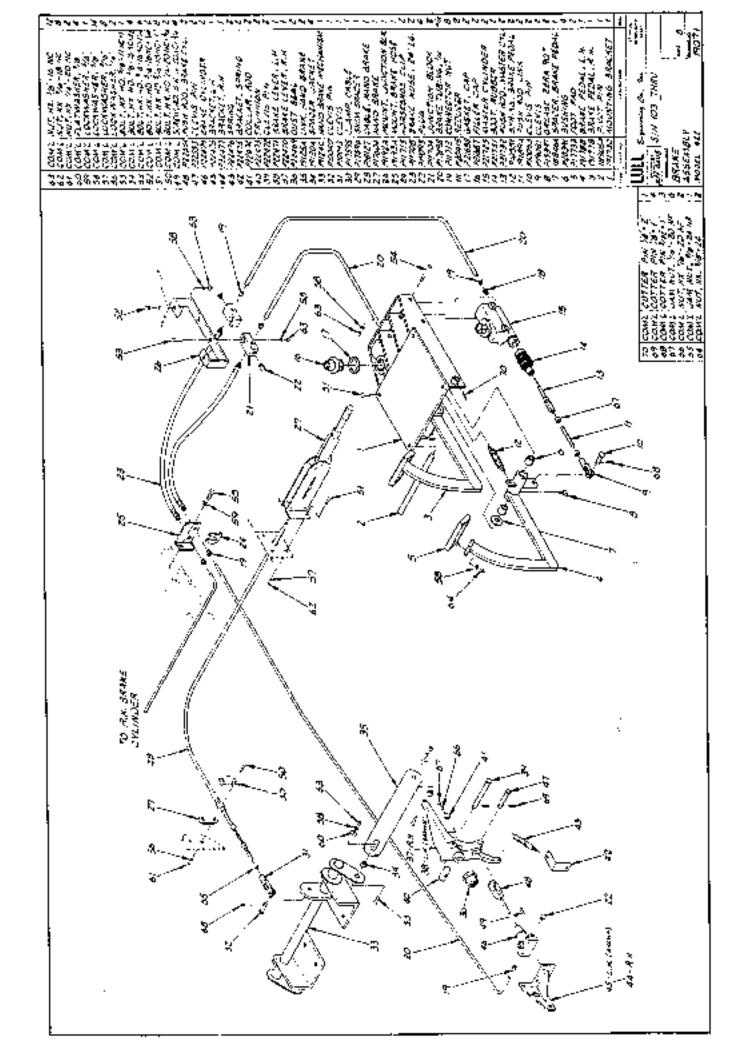


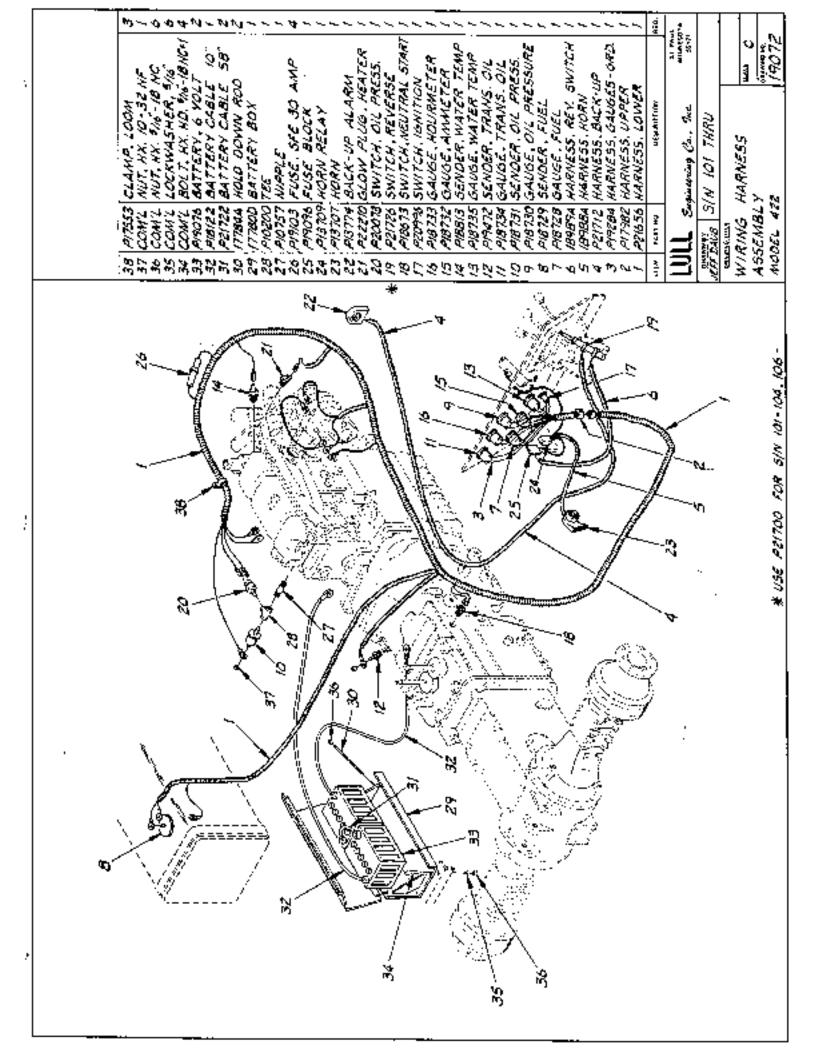


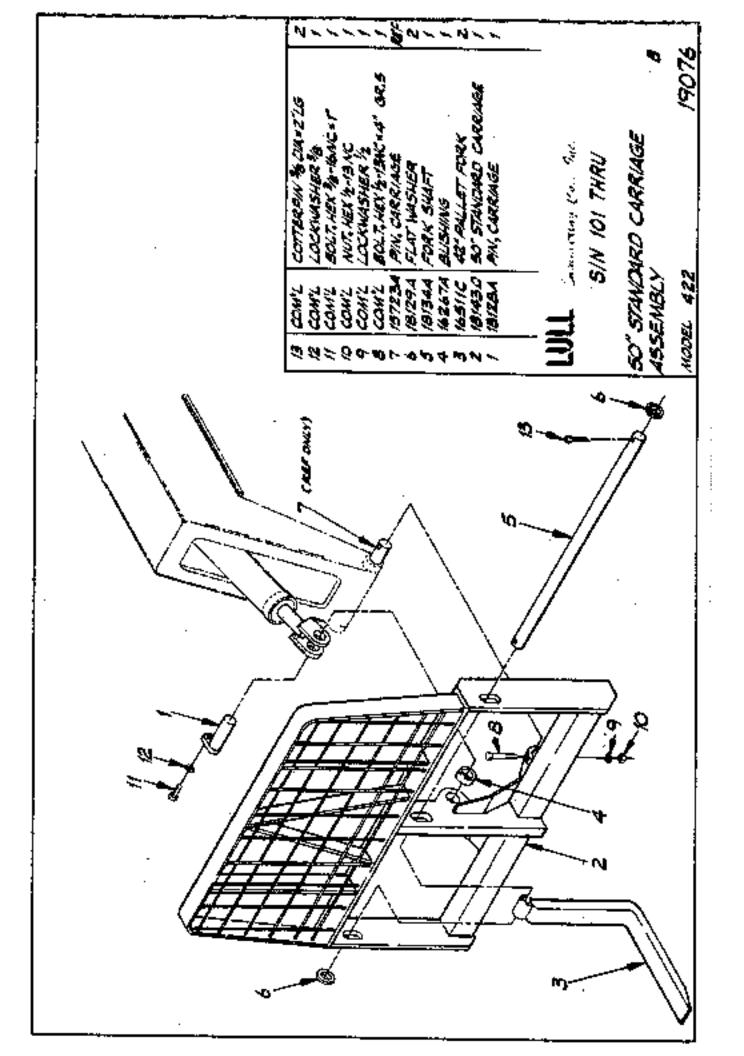


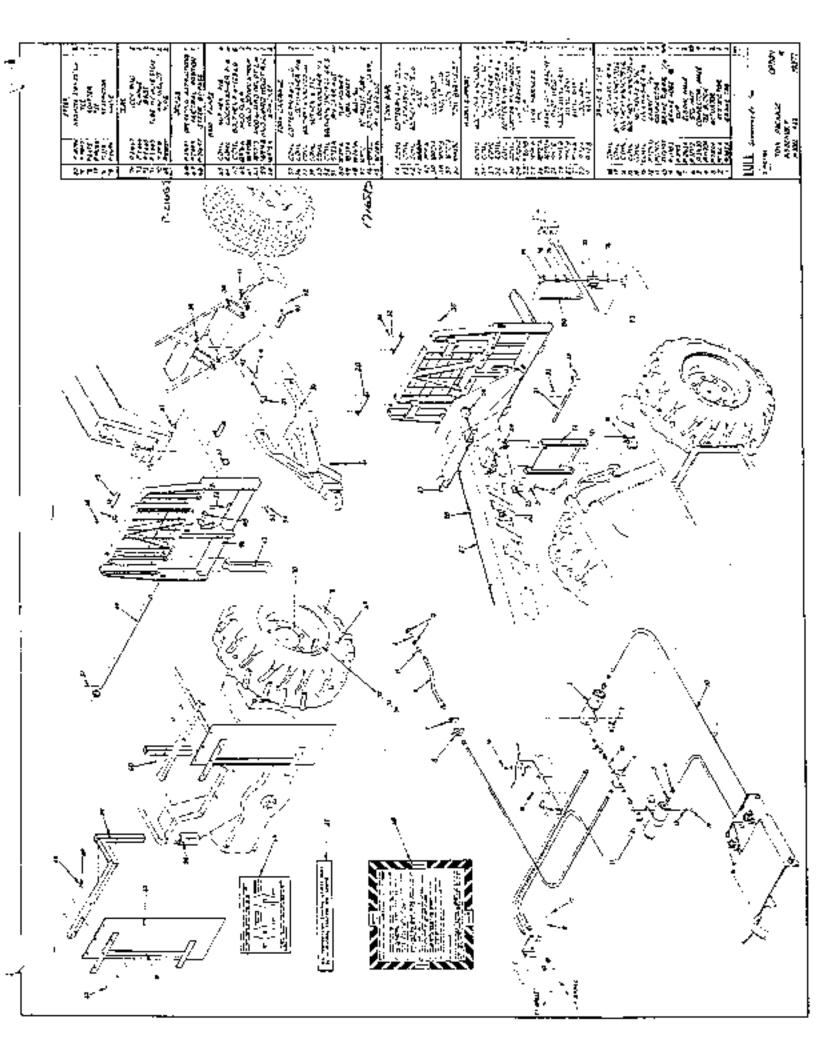


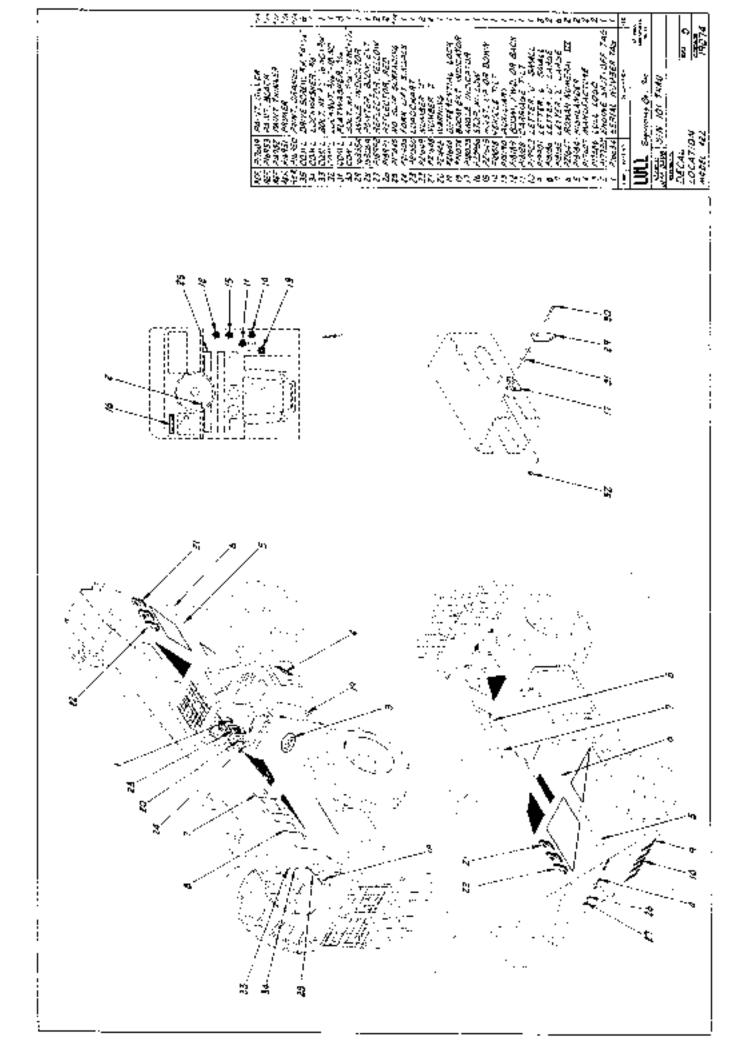












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