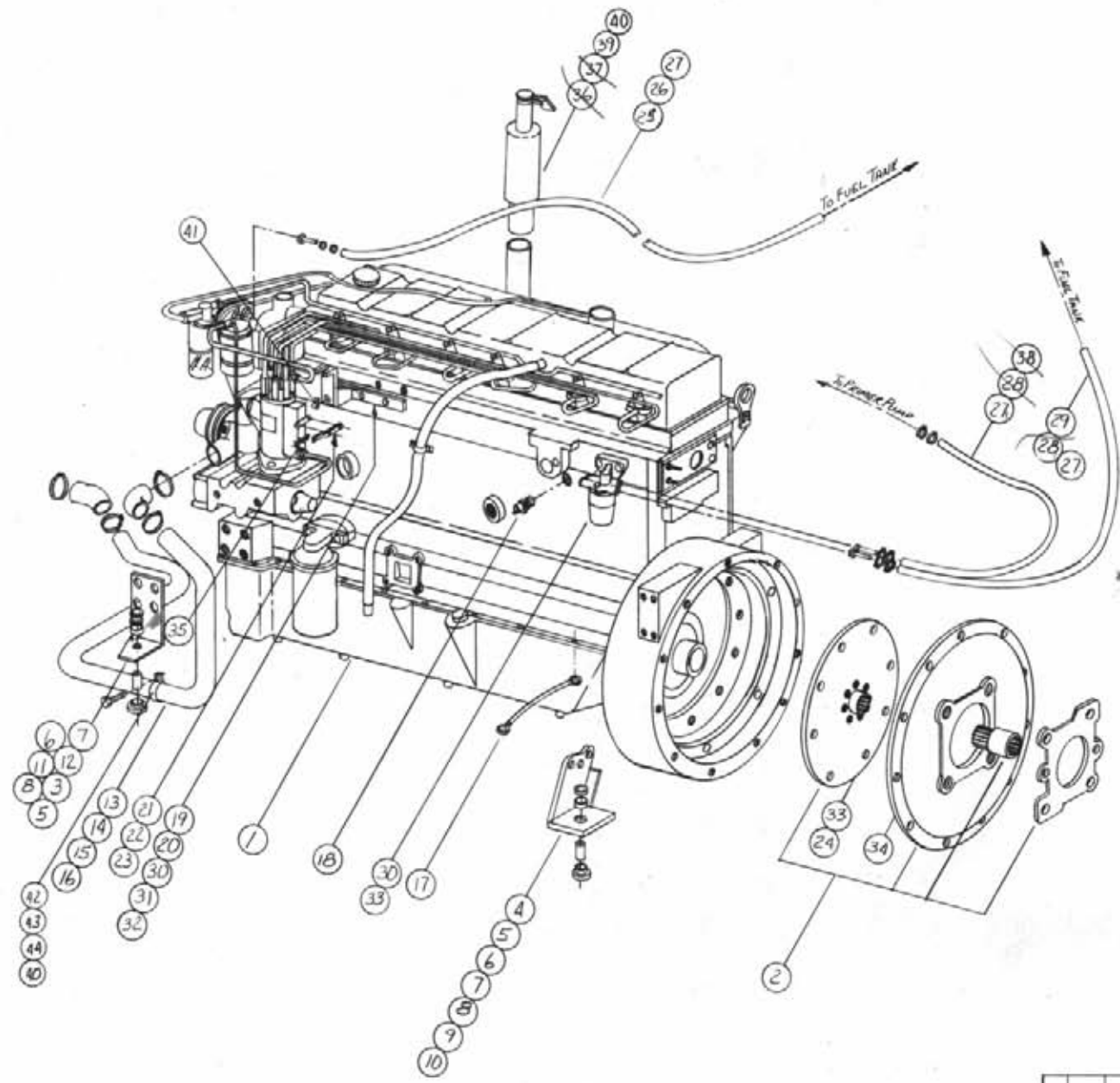


THE FOLLOWING ABBREVIATIONS WILL BE USED

Adj -	Adjustment	Mic -	Micron
Adptr -	Adapter	MJIC -	Male J.I.C.
Agi -	Agitator	MOR -	Male O-Ring
Alhd -	Allen Head	MNPT -	Male NPT
Alt -	Alternator	MPS -	Male Pipe Straight Thread
Assy -	Assembly	Mt -	Mount
Aux -	Auxiliary	Mtg -	Mounting
Bkt -	Bracket	Mtr -	Motor
Br -	Branch	Neut -	Neutral
Brng -	Bearing	NPSM -	National Pipe Straight Mechanical
Bshng -	Bushing	NPT -	National Pipe Thread
Carr -	Carriage	OC -	Oil Cooler
CD -	Case Drain	OD -	Outside Diameter
C1 -	Close	Out -	Outlet
Conn -	Connector	Pit -	Plate
Cont -	Control	Press -	Pressure
Cush -	Cushioned	Pwr -	Power
Cyl -	Cylinder	Rad -	Radiator
Dr -	Drain	Red -	Reducer
E1 -	Elbow	Ret -	Return
Exh -	Exhaust	Rt -	Right
Ext -	Extension	SAE -	Society of Automotive Engineers
Extrn -	External	SMV -	Slow Moving Vehicle
Fem -	Female	So1 -	Solution
FNPT -	Female N.P.T.	Speedo -	Speedometer
FOR -	Female O-Ring	Sp1 -	Spool
Ft -	Front	S.S. -	Stainless Steel
Ga -	Gauge	St -	Straight
GHT -	Garden Hose Thread	St El -	Street Elbow
GPM -	Gallons per Minute	Strg -	Steering
Gr -	Groove	Sund -	Sundstrand
Gr Zerk -	Grease Zerk	Sw -	Switch
Gr 8 -	Grease Eight	T -	Tee
Hyd -	Hydraulic	Tach -	Tachometer
Hydro -	Hydrostatic	Temp -	Temperature
ID -	Inside Diameter	Thd -	Thread
Ind -	Indicator	Throt -	Throttle
Instr -	Instrument	UNC -	Unified National Coarse
Lb -	Pound	UNF -	Unified National Fine
Lg -	Long	VFC -	Variable Flow Control
LH -	Left Hand	VIV -	Valve
LR -	Left Rear	w/ -	With
Lt -	Left	Wh1 -	Wheel
Lwr -	Lower	Wld or Wldm't -	Weldment
Man or Manif -	Manifold	2ND -	Two-Wheel Drive
Med -	Medium	4WD -	Four-Wheel Drive

Table of Contents

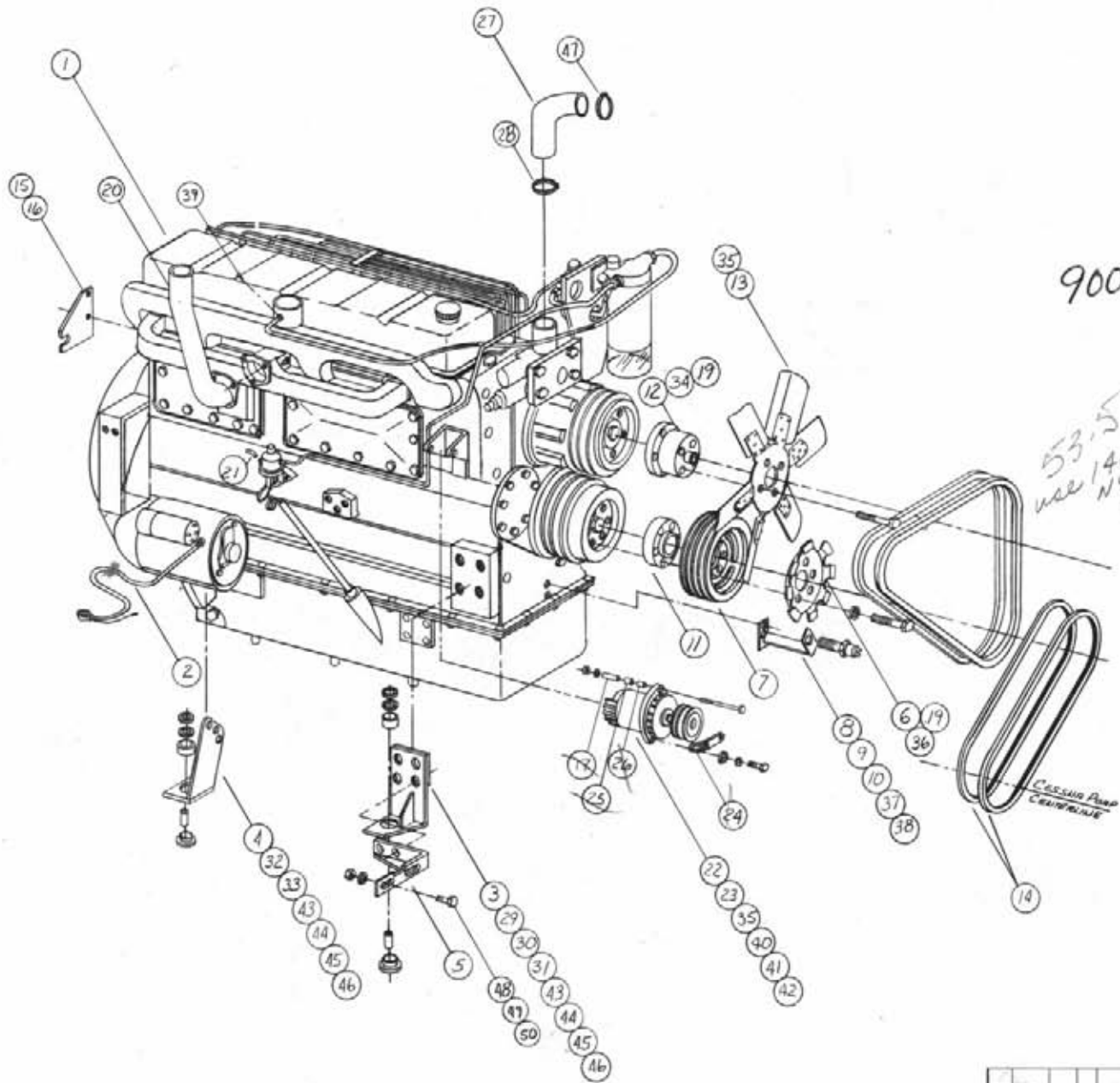
Drive Train.....	4 - 18
Fuel & Oil.....	19 - 21
Steering.....	22 - 25
Cab.....	26 - 33
Spraying System.....	34 - 41
Boom, Transom & Lift Components.....	42 - 45
Sheet Metal.....	46 - 49
Solution System Hosing.....	50
Electrical Diagram.....	51
Torque Hub & Power Wheel.....	52 - 55
Decals.....	56 - 59
Hydraulic Schematics.....	60 - 67
Index.....	68



44	914002	7/16" LOCK NUT
43	906072	7/16" x 3" FUEL TUBE
42	520163	1/2" CUSHION CLAMP
41	520119	3/8" CUSHION HOSE CLAMP
40	910002	9/16" HEX NUT
39	472195	2 1/2" x 3/8" U-BOLT
38	601141	1/2" FUEL LINE
37	314537	RAIN CAP
36	314554	MUFFLER
35	190486	WROTH CLAMP
34	100129	3/8" x 1 1/2" BOLT
33	900163	7/8" x 1 1/2" BOLT
32	714000	7/8" LOCK NUT
31	900002	1/2" x 3/4" BOLT
30	920002	3/8" FLAT WASHER
29	601142	3/4" FUEL LINE
28	314527	3/8" x 2" HOSE BARB
27	520120	MINI HOSE CLAMP
26	314552	1/2" x 3" HOSE BARB
25	601143	5/8" FUEL LINE
24	920502	3/8" LOCK WASHER
23	918027	#10-32 LOCK NUT
22	903889	#10-32 x 3/4" SCREW
21	314546	WROTH CLAMP
20	520118	1/2" CUSHION CLAMP
19	314520	WROTH CLAMP
18	314344	TEMP. SENDER
17	290051	12" GROUND CABLE
16	520068	#32 HOSE CLAMP
15	314549	LIVE PUMP HOSE CUT
14	314551	LIVE WASHDOWN HOSE
13	314525	LIVE PUMP HOSE
12	920505	3/8" LOCK WASHER
11	900333	3/8" x 1 1/2" BOLT
10	920504	3/8" LOCK WASHER
9	900264	1/2" x 1 1/2" BOLT
8	310431	1/2" FEELER WICHIE
7	310048	INSULATOR HOUSING
6	310047	LOWER INSULATOR
5	310046	SCREW & SPACER
4	314513	1/2" PUMP MOTOR MT.
3	314507	1/2" FT. MOTOR MT.
2	800454	SMALL PUMP DRIVE
1	314789	PUMPING ENGINE

916
916
916

HAGIE		
HAGIE MANUFACTURING COMPANY		
CLARKSON, OHIO 43085		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCES UNLESS OTHERWISE SPECIFIED		
FRACTION	DECIMAL	ANGLES
DESCRIPTION	7-CYLINDER DIESEL ENGINE ASSY	
DRAWN BY	Z. GERMAN	
CHECKED BY	NO USE	
DATE	12-12-78	SCALE
NO DATE E.C.B.Y.	REVISION	DATE REVISION



900537

53.5
use 140022
N9530
Bolt

50	2	900132	3/8" x 1 1/2" BOLT
47	2	714004	3/8" UNF LOCKNUT
48	2	920002	3/8" SAFETY WASHER
47	1	520087	#20 HOSE CLAMP
44	2	310046	SLIDER & SPACER
45	2	310047	LINE INSULATOR
44	2	310048	INSULATOR PADFAST
43	2	310631	1/6" KEEPER WASHER
42	1	Comes w/ Engine	3/8" UNLOCKNUT
41	1	Comes w/ Engine	3/8" x 5/16" BOLT
40	1	Comes w/ Engine	3/16" FAN WASHER
39	1	473929	1/4" x 3/8" BOTTLE SCREW
38	3	Comes w/ Engine	3/16" LOCKWASHER
37	2	Comes w/ Engine	"Hex" #11" BOLT
36	1	900085	1/4" x 1" BOLT
35	5	900065	1/4" x 1" BOLT
34	6	900164	3/8" x 1 1/2" Hex Bolt
33	3	920504	1/2" LOCKWASHER
32	3	900264	1/2" x 1/4" BOLT
31	4	920505	5/8" LOCKWASHER
30	2	900332	5/8" x 1 1/2" BOLT
29	2	900335	5/8" x 2" BOLT
28	1	520068	#32 HOSE CLAMP
27	1	314547	TOP RAD. HOSE CUT
26	1	314742	ALT. SPACER LAMINA
25	1	314744	ALT. SPACER LAMINA
24	1	314743	ALT. ADJUSTING ARM
23	1	140065	ALTERNATOR PULLEY
22	1	310092	55 AMP ALTERNATOR
21	1	314526	HOSE BOND PRIMER
20	1	314740	EXH. AIR W.L.D.
19	0	920501	3/16" LOCKWASHER
18	1	314741	EXH. AIR PIPE BOLT
17	1	340330	ALT. SPACER LAMINA
16	1	606852	HEAD CUT BAT
15	1	914003	3/16" UNF LOCK NUT
14	1	140035	5/16" DIA. BALL BEARING
13	1	319606	19" FAN BLADE
12	1	314738	FAN PULLEY SPACER
11	1	314737	CRANK SPACER
10	1	413061	3/8" ID. TRUSS ROD NUT
9	1	291206	SPEED SENSOR
8	1	314557	TACH. SPACER AT W.L.D.
7	1	140025	3/8" BOD. 1/6" S.W.A.
6	1	314564	TACH. PUL. W.L.D.
5	1	615587	COOLING PUMP AT W.L.D.
4	1	314509	EX. PUMP AT W.L.D.
3	1	314503	R. FT. MOUNT AT W.L.D.
2	1	290049	48" STAINLESS CABLE
1	1	314729	PERKINS ENGINE

FORM #4 DESCRIPTION

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS

TELEPHONE UNLESS OTHERWISE SPECIFIED

FRACTION: DECIMALS: ANGLES:

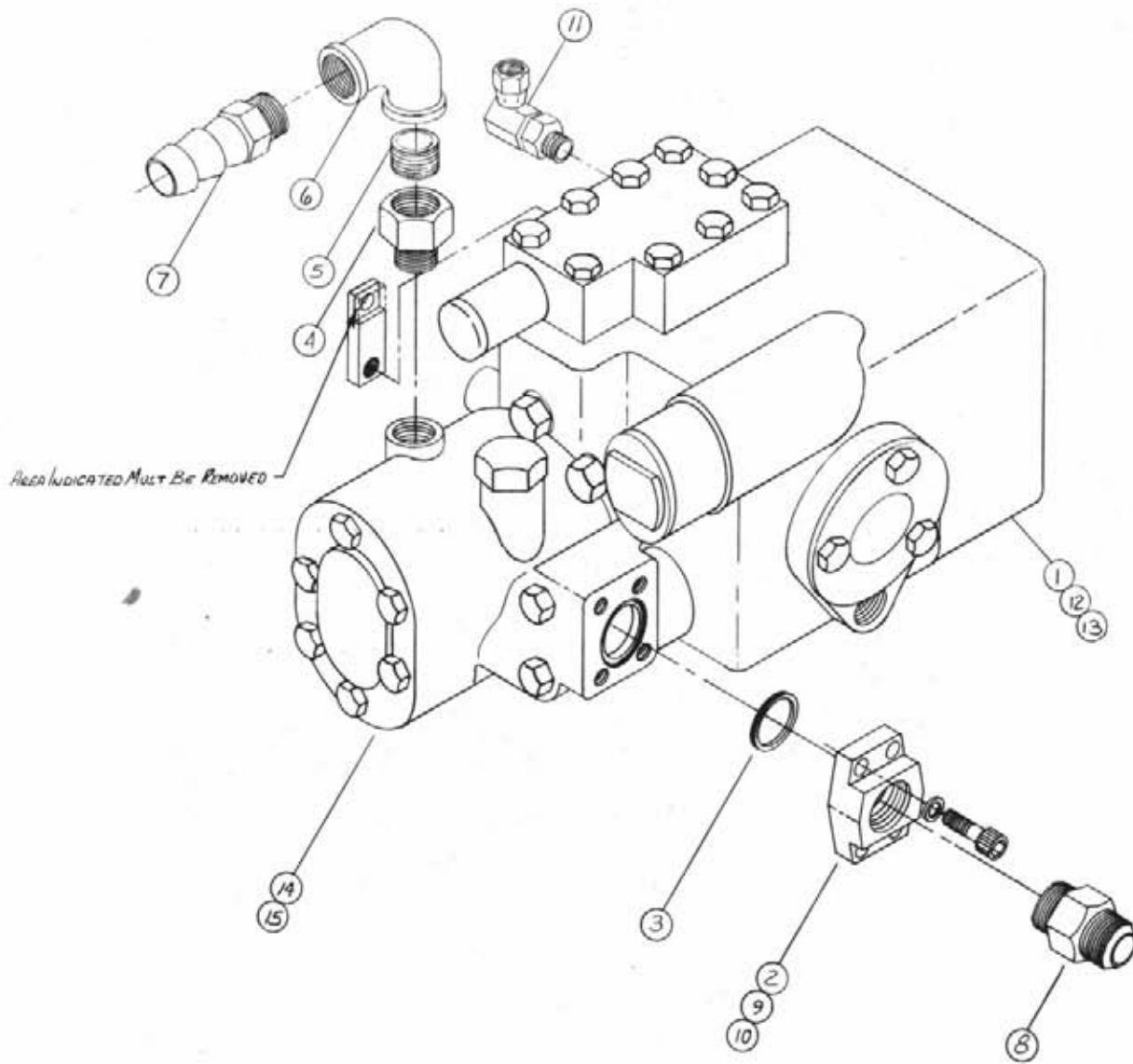
DESIGNED BY: PERKINS DIESEL ENGINE RESEARCH

DRAWN BY: L. GREENMAN

DATE: 3/82

NO. DATE: C.B.Y. REVISION

NO.	DATE	BY	REVISION



51	611022	CHARGE PUMP SOCKET
14	611029	CHARGE PUMP
13	900265	1/2 UNCL X 1/2 HEX BOLT
12	920004	1/2 SAE FLAT WASHER
11	618187	3/8 DIA 90° ELBOW
10B	618167	LOCK WASHER
9A	472243	3/8 DIA 1/2 UNCL X 1/2 HEX BOLT
8B	618186	1 1/2 DIA 90° ELBOW
7	712251	1/4 NPT 90° ELBOW
6	504501	3/8 NPT 90° ELBOW
5	504702	3/8 CLASSE NUT/BUSH
4	618131	1/2 DIA 90° ELBOW
3	870219	O-RING
2	618176	1 NPT 4 BOLT FLANGE
1	611024	CHARGE PUMP
MATERIAL		DESCRIPTION

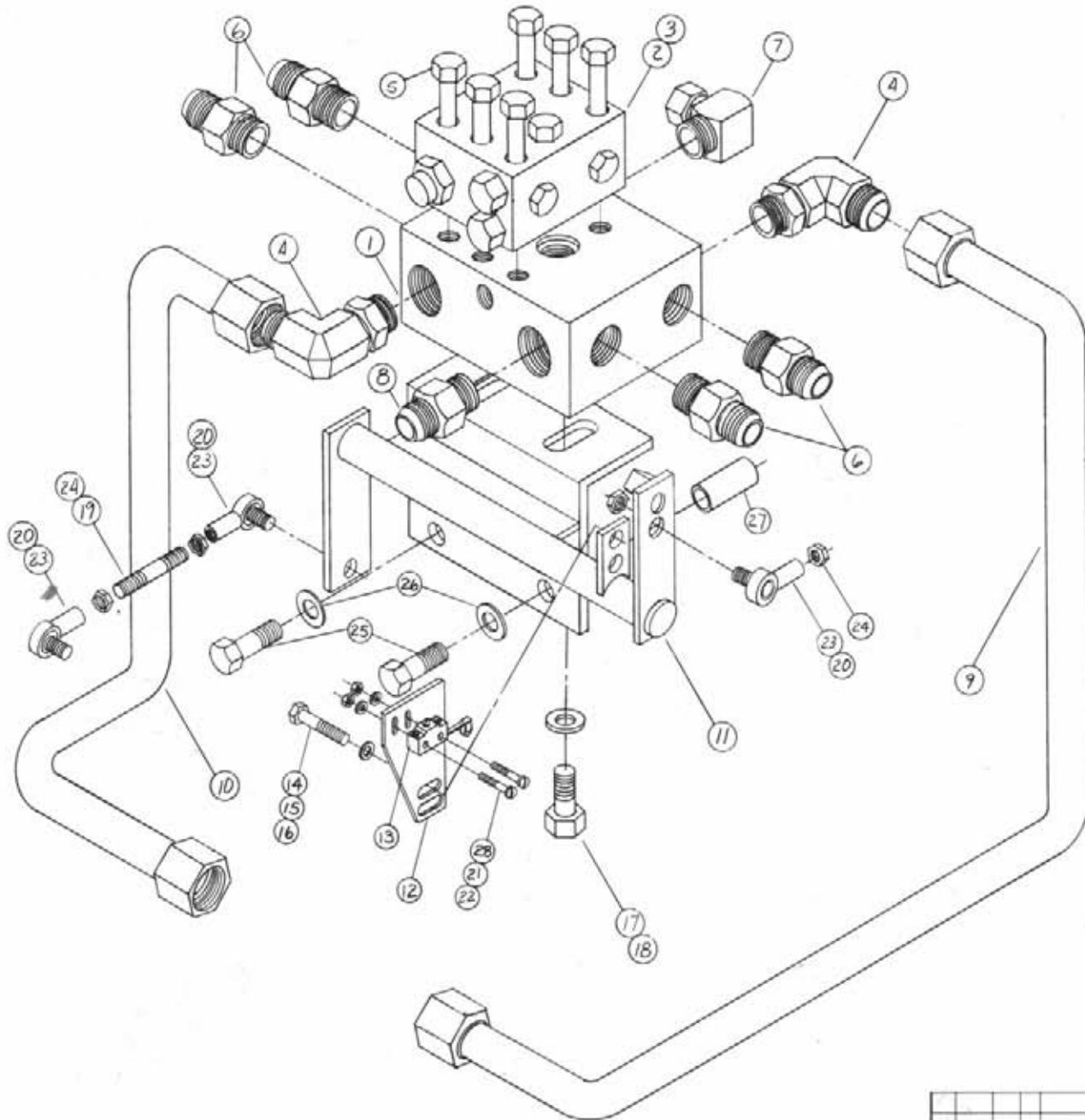
HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP EDGES & BURRS

TOLERANCES UNLESS OTHERWISE SPECIFIED

FACTORY	DEPT	MODEL
DESCRIPTION	SANDSTRAK PUMP Assy	
DRAWN BY	L. GERMAN	
CHECKED BY	L. GERMAN	
DATE	12-12-78	DRAWING NUMBER

NO.	DATE	C.B.Y.	REVISION



28 2	473993	#6-32x1 1/8 SCREW
27 2	615287	MANIFOLD SPACER
26 2	920002	1/8 IN. FLAT WASHER
25 2	900170	1/8 IN. x 2 1/2 BOLT
24 0	910001	1/8 IN. HEX NUT
23 3	473918	1/8 IN. BALL JOINT
22 2	920011	1/8 IN. WASHER
21 2	910022	1/8 IN. NUT
20 3	914001	1/8 IN. LOCK NUT
19 1	615288	CONT. RAD. SWITCH
18 2	920001	1/8 IN. FLAT WASHER
17 2	900065	3/16 IN. x 1 BOLT
16 2	900002	3/16 IN. x 1/2 BOLT
15 2	914000	1/8 IN. LOCK NUT
14 2	920000	1/8 IN. FLAT WASHER
13 1	293006	SWITCH
12 1	314568	NUX. SU. MT. PLT.
11 1	615350	MANIFOLD MT. WED.
10 1	615213	HYD. TUBE - SHORT
9 1	615211	HYD. TUBE - LONG
8 1	618309	1/8 IN. x 1 1/2 IN. HOSE
7 1	618100	1/8 IN. x 1 1/2 IN. HOSE
6 0	611127	1/8 IN. x 1 1/2 IN. HOSE
5 1	900075	3/8 IN. x 3/4 BOLT
4 2	618178	1/8 IN. x 1 1/2 IN. HOSE
3 1	611007	SEAL KIT
2 1	610013	RELIEF VALVE
1 1	615003	LG. HYD. MANIFOLD
TOTAL		Qty. DESCRIPTION

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CLARION, IOWA 50535

REMOVE ALL SHARP CORNERS & BURRS

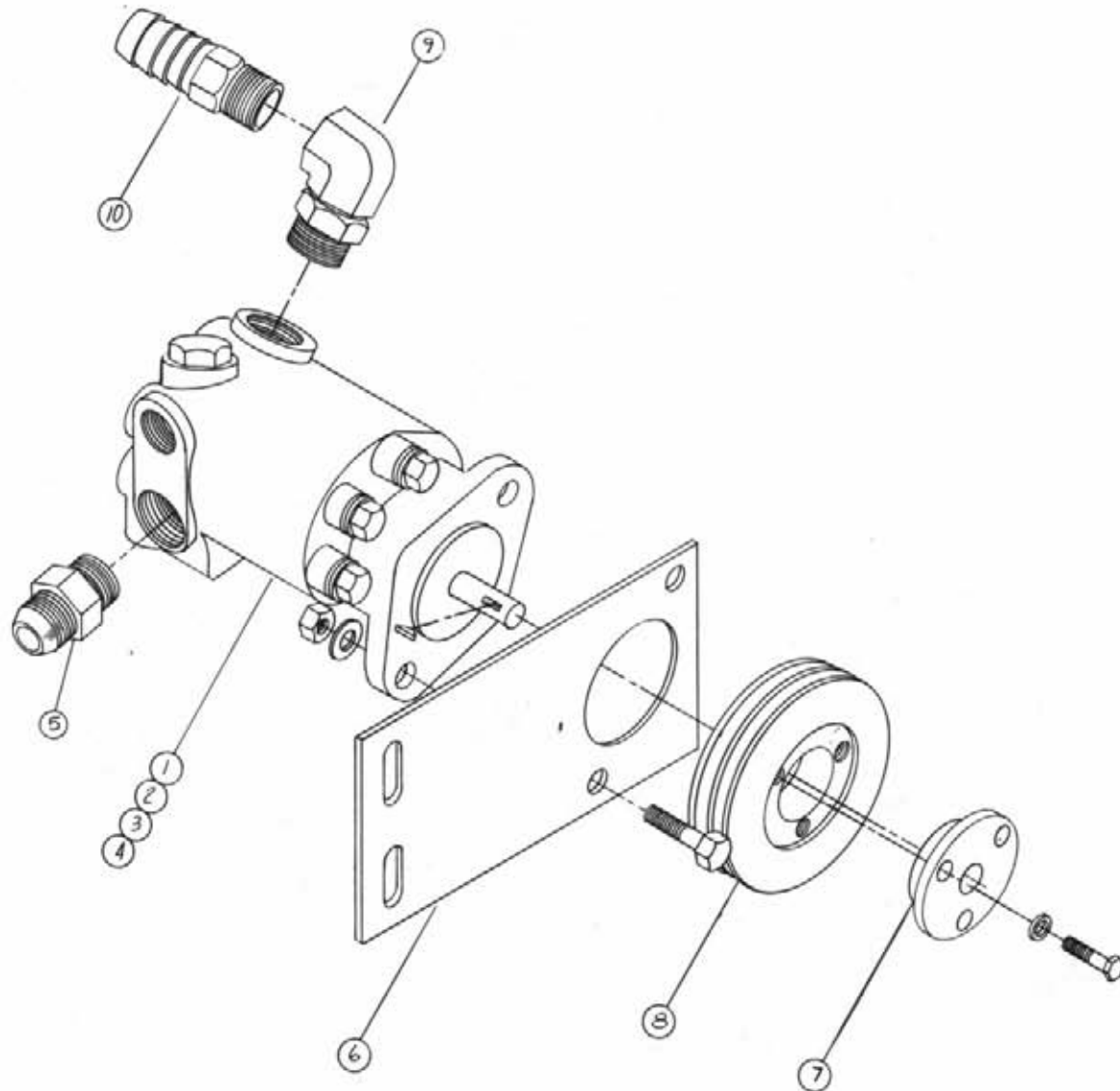
TOLERANCES UNLESS OTHERWISE SPECIFIED

FRAC.	DEC.	ANGLES
1/16	0.001	30°

DESIGNED BY: *W. BARRETT & HYDRO. CONT. TEST*
DRAWN BY: *L. GERMAN* SCALE: *NONE*
CHECKED BY: *L. GERMAN* APPROVED BY: *L. GERMAN*

DATE: 12-13-78
NO. DATE: C.B.Y. REVISION

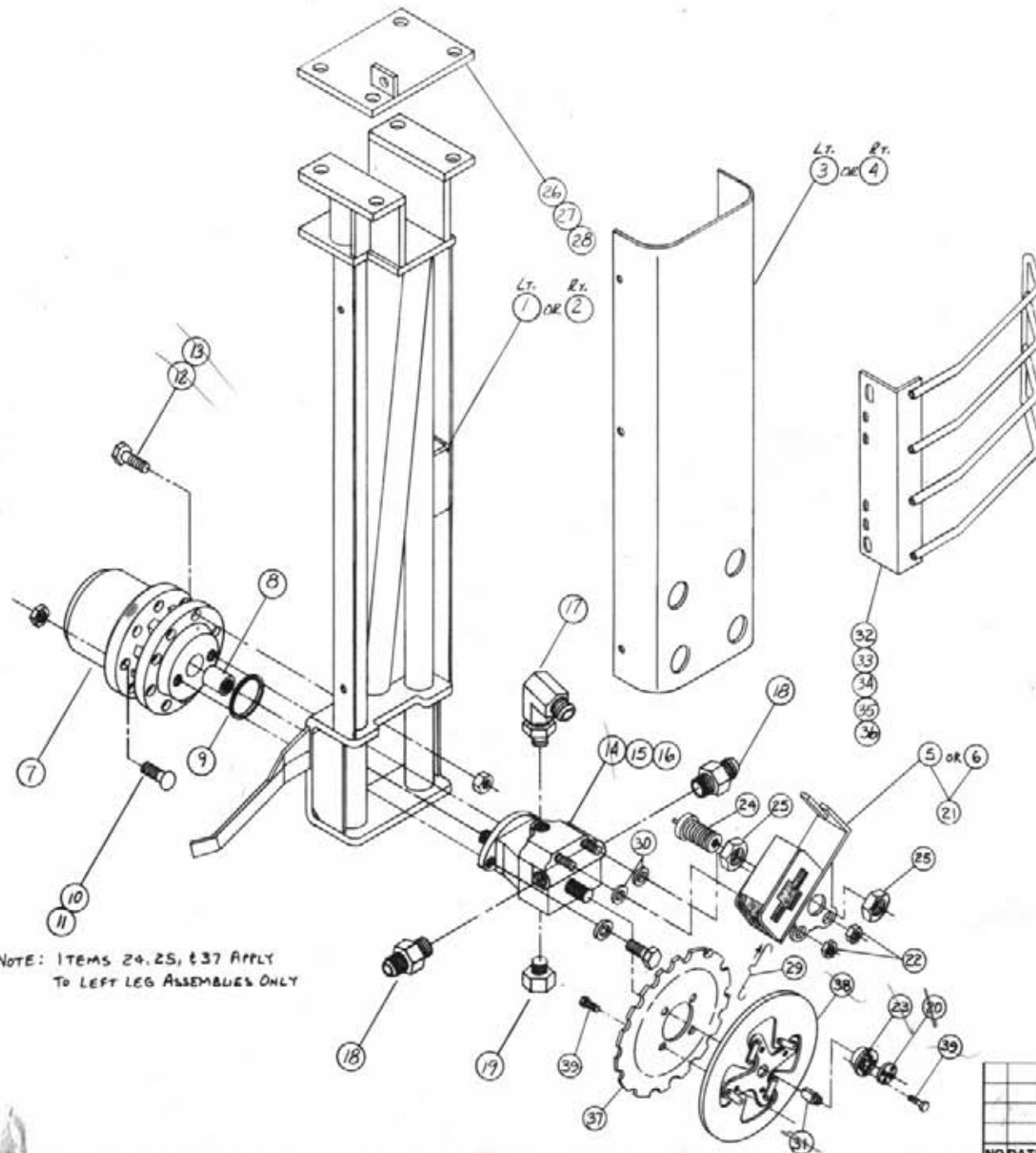
NO.	DATE	BY	REVISION



10	1	712251	3/8 NPT x 1/2 Hose End
9	1	618195	1 1/2 Hex-30-36 Nut
8	1	141519	2 GROOVE SLEEVE
7	1	149120	1/2 S1820000 TUBING
6	1	615302	PUMP HOUSING
5	1	6111240	7/8 Hex 7/8 NUT
4	2	920002	1/8 SAE FLATWASHER
3	2	914004	7/8 LOCK NUT
2	2	900131	1/8 x 1 1/2 BOLT
1	1	610141	CROSSHAIR PUMP

HAGIE		
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCES UNLESS OTHERWISE SPECIFIED		
FRACTION	DECIMALS	ANGLES
DESCRIPTION 2 1/2 INCH AUX PUMP ASSEMBLY		
DRAWN BY L. GERMAN	SCALE 1/16"	APPROVED BY L. GERMAN
CHECKED BY	DATE 3/82	DRAWING NUMBER 12-13-78
NO DATE C.B.Y.	REVISION	SHEET OF

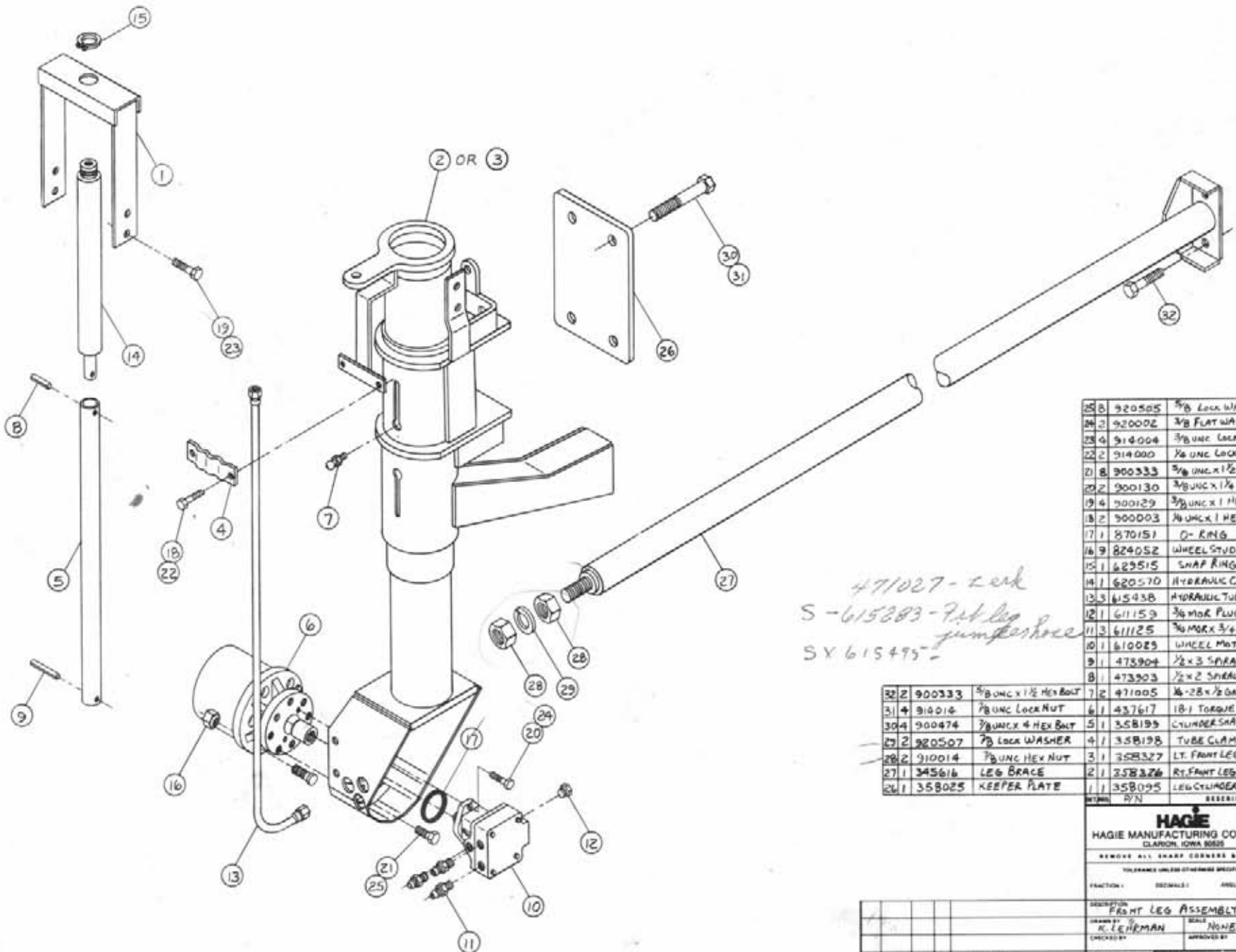
* 647-S SHOWN. 647-SX USES 35B214 -
 RIGHT REAR LEG WLD IN PLACE OF ITEM 2
 AND 35B215 - LEFT REAR LEG WLD IN PLACE
 OF ITEM 1. 647-SX MACHINES USE
 ITEM 5 ON RIGHT LEG AND ITEM 6 ON
 LEFT LEG.



NOTE: ITEMS 24, 25, & 37 APPLY
 TO LEFT LEG ASSEMBLIES ONLY

39	B	900064	3/8 UNCL 7/8 BOLT
38	I	826559	FRONT DISC SUB ASSY
37	I	826963	SENSOR DISC
36	2	920001	3/8 SAE FLATWASHER
35	I	914002	3/8 UNCL LOCK NUT
34	I	900065	3/8 UNCL 1" BOLT
33	5	472347	1/2 X 3/8 # 4 BR
32	I	662097	REAR STALK GUIDE
31	I	826944	TAPER LOCK HUB
30	2	920003	1/2 UNCL FLATWASHER
29	I	826929	EXTENSOR CLIP
28	I	35B073	LEAFER PLATE WLD
27	A	914014	28 UNCL LOCK NUT
26	A	900074	28 UNCL 4" GAS BOLT
25	2	473061	3/8 X 1/2 TRUSS NUT
24	I	291206	SPEEDO SENSORE
23	I	826983	HUB
22	2	914006	1/2 UNCL LOCK NUT
21	I	826918	BRAKE PAD
20	I	826945	HUB MOUNT
19	I	611159	4" HUB PADS
18	2	618308	1 3/8" AMB L/R ALING
17	I	618241	7/8 UNCL 20" 7/8 CHAM
16	2	920008	1/2 SAE FLATWASHER
15	2	900265	1/2 UNCL 1 1/2" BOLT
14	I	610030	WHL MTR 7/8 SMOOT
13	B	914010	28 UNCL LOCK NUT
12	B	900335	28 UNCL 2" BOLT
11	B	824050	1/2 X 18 WHL STUD NUT
10	B	824025	1/2 X 18 WHL STUD
9	I	582242	O-RING
8	I	610165	FLY WHEEL CHAMFER
7	I	611030	AXLE CHANNEL 31-1
* 6	I	828080	SENSOR SENSORE AT RT
* 5	I	828079	SENSOR SENSORE AT LT
4	I	659360	RT REAR TRAIL SENS
3	I	659486	LT REAR TRAIL SENS
* 2	I	35B173	RT REAR LEG WLD
* 1	I	35B174	LT REAR LEG WLD
ITEM			DESCRIPTION

HAGIE	
HAGIE MANUFACTURING COMPANY	
CLARION, IOWA 50525	
REMOVE ALL SHARP CORNERS & BURRS	
TOLERANCE UNLESS OTHERWISE SPECIFIED	
FRACTION:	DECIMALS: ANGLES:
DESCRIPTION:	LT. RT. Rear Leg Assembly
DRAWN BY:	L. Germain
CHECKED BY:	L. Germain
DATE:	1-6-79
NO DATE E.C. BY:	REVISION
SHEET:	OF



471027 - 2 wk
 S-615283 - 7.4 leg
 jump shoe
 SX 615495 -

25	8	920505	3/8 Lock WASHER
24	2	920002	3/8 FLAT WASHER
23	4	914004	3/8 UNC LOCK NUT
22	2	914000	3/8 UNC LOCK NUT
21	8	900333	3/8 UNC X 1 1/2 BOLT
20	2	900130	3/8 UNC X 1 1/2 BOLT
19	4	900129	3/8 UNC X 1 HEX BOLT
18	2	900003	3/8 UNC X 1 HEX BOLT
17	1	870151	O- RING
16	9	824052	WHEEL STUD NUT
15	1	629515	SNAP RING
14	1	620570	HYDRAULIC CYLINDER
13	3	615438	HYDRAULIC TUBE ASSY
12	1	611153	3/8 MORRIS PLUG
11	3	611125	3/8 MORRIS 3/4 MUC
10	1	610025	WHEEL MOTOR
9	1	473904	1/2 X 3 SPIRAL PIN
8	1	473903	1/2 X 2 SPIRAL PIN
7	2	471005	1/4 - 28 X 1/2 GRAMETER
6	1	437617	18-1 TORQUE ARM
5	1	358199	CYLINDER SHAFT EXT.
4	1	358198	TUBE CLAMP
3	1	358327	LT. FRONT LEG WLD.
2	1	358326	RT. FRONT LEG WLD.
1	1	358095	LEG CYLINDER MOUNT

32	2	900333	3/8 UNC X 1 1/2 HEX BOLT
31	4	910014	3/8 UNC LOCK NUT
30	4	900474	3/8 UNC X 4 HEX BOLT
29	2	920507	3/8 Lock WASHER
28	2	910014	3/8 UNC HEX NUT
27	1	345616	LEG BRACE
26	1	358025	KEEPER PLATE

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 HAGIE MANUFACTURING COMPANY
 CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS

TOLERANCES UNLESS OTHERWISE SPECIFIED

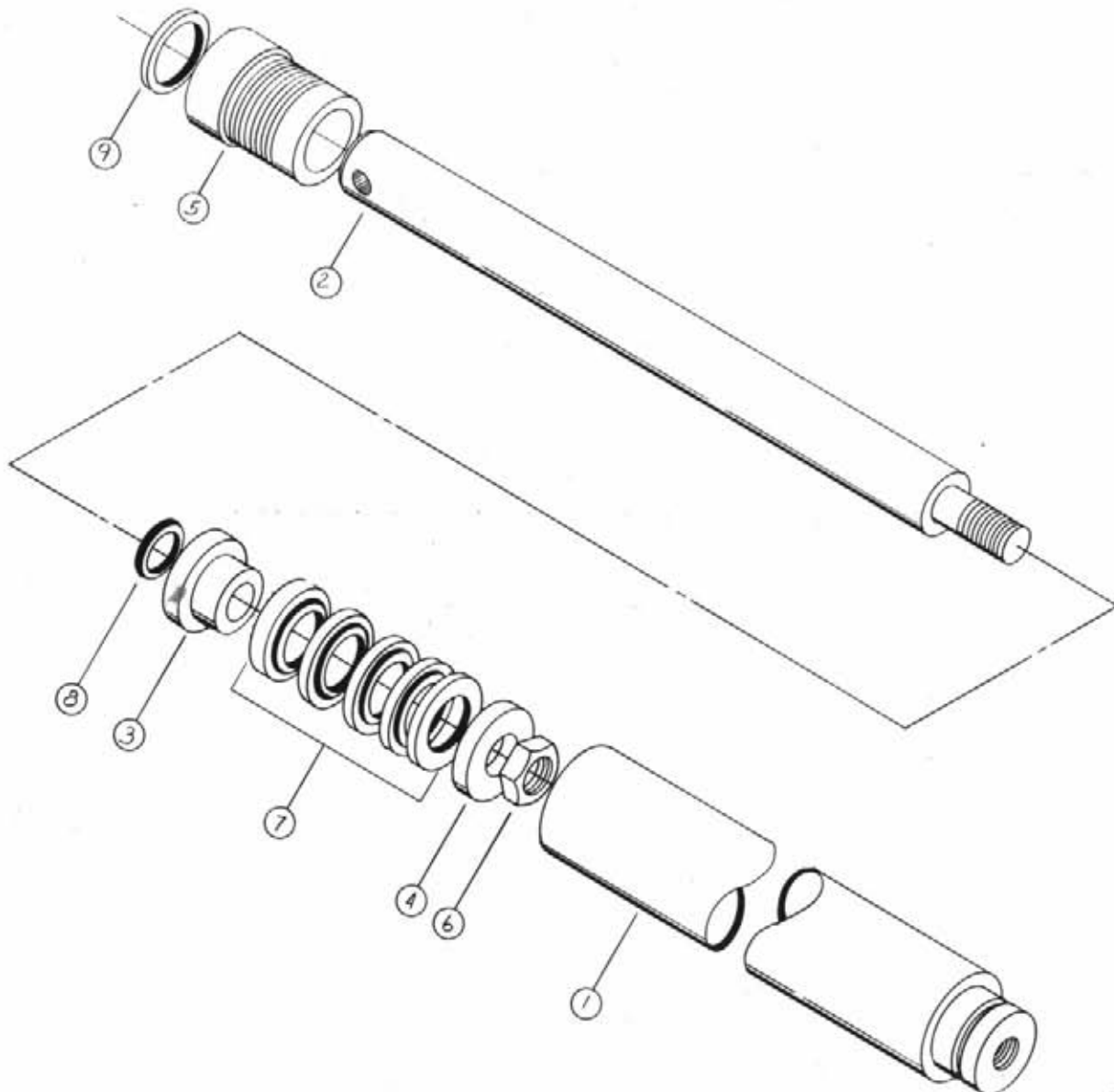
FRACTION: DECIMALS: ANGLES: 1

DESCRIPTION: FRONT LEG ASSEMBLY

DRAWN BY: K. LENHMAN SCALE: NONE

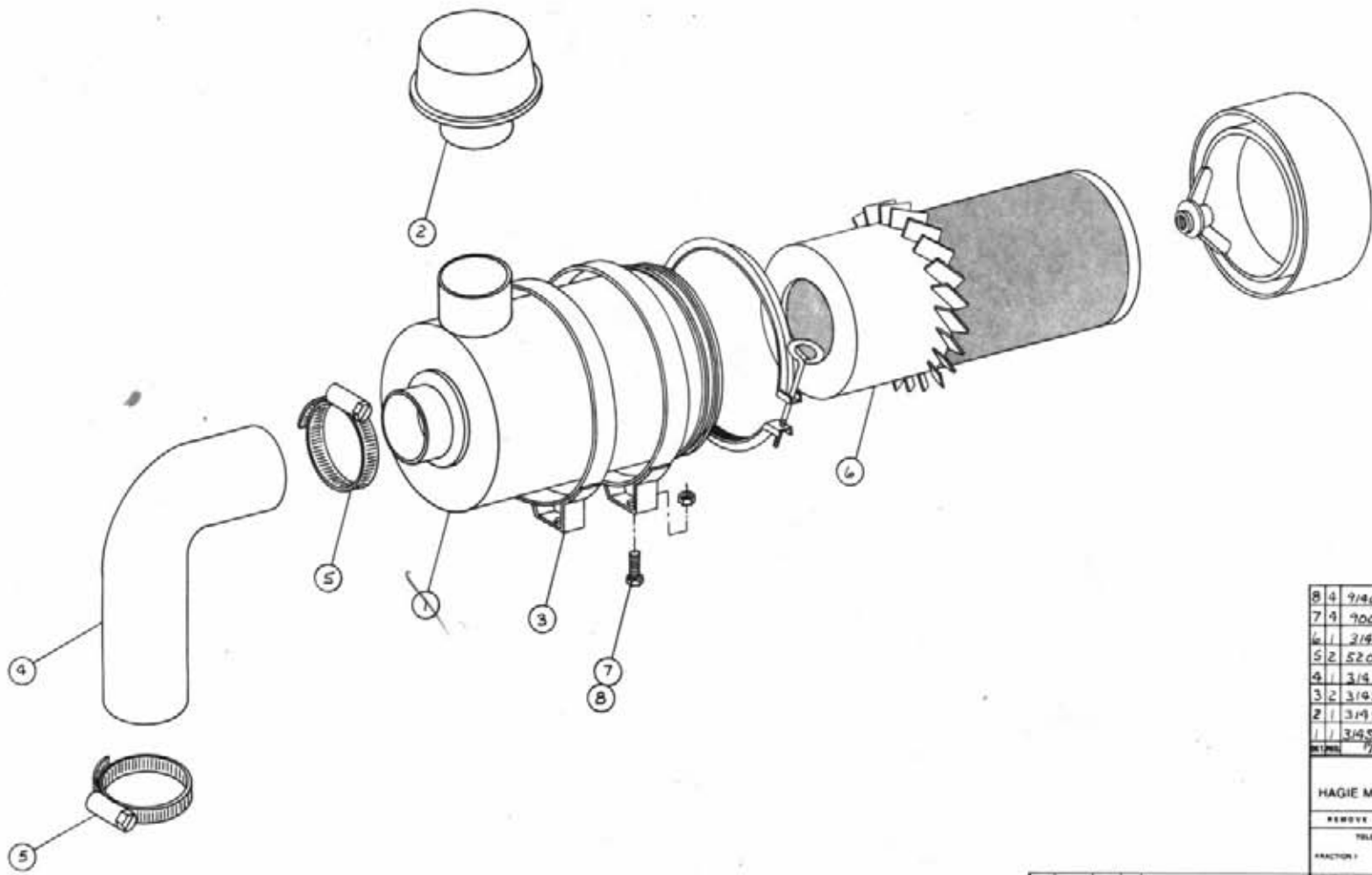
CHECKED BY: APPROVED BY: DATE: 5-29-80

NO. DATE: C.B.Y. REVISION SHEET OF: DRAWING NUMBER



QTY	PN	DESCRIPTION
9	1629002	ROD WIPER
8	1870018	O-RING
7	1620321	VICE PACK
6	1472297	LOCK NUT
5	1620574	BEARING HEAD
4	1620579	RETAINER RING
3	1620678	PISTON
2	1620573	ROD
1	1620571	TUBE W/DMT

HAGIE		
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		
FRACTION	DECIMALS	ANGLES
DESCRIPTION FRONT LEG CYLINDER ASSY		
DRAWN BY L. GERMAN	SCALE N/A	APPROVED BY L. GERMAN
CHECKED BY	DATE 1-9-79	DRAWING NUMBER
NO. DATE E.C. BY	REVISION	SHEET OF



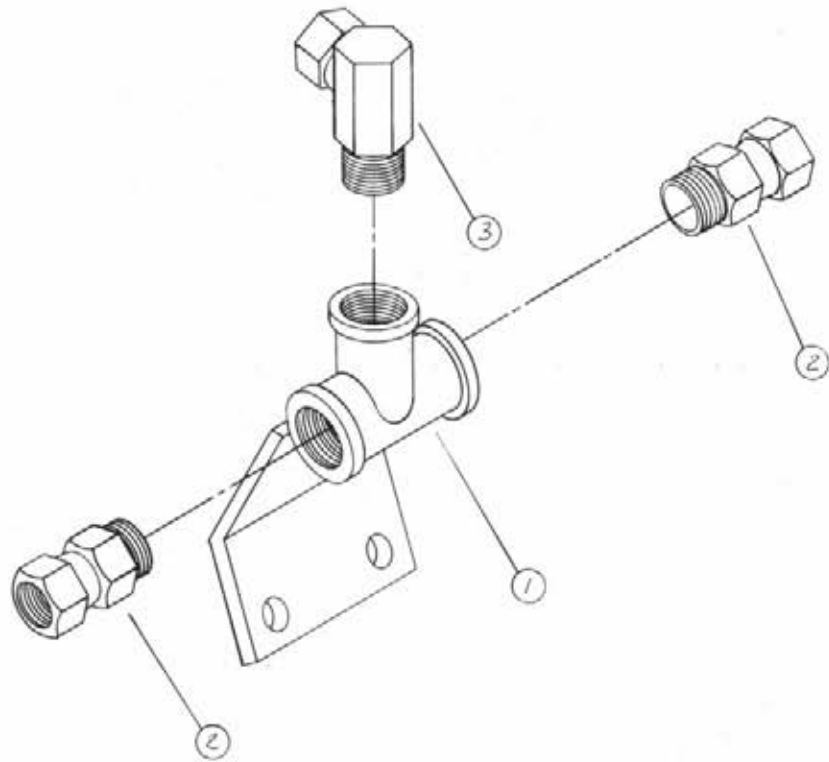
8	4	914000	1/2" UNC LOCK NUT
7	4	900002	1/4" UNC x 3/4" HEX BOLT
6	1	319593	AIR CLEANER FILTER
5	2	520056	3/4" HOSE CLAMP
4	1	319731	AIR CLEANER HOSE
3	2	319536	AIR CLEANER BAND
2	1	319529	AIR STACK CAP
1	1	319528	AIR CLEANER
ITEM		QTY	DESCRIPTION

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS

TOLERANCES UNLESS OTHERWISE SPECIFIED

DESCRIPTION	SCALE
AIR CLEANER ASSEMBLY	1/8" = 1"
DRAWN BY	CHECKED BY
T. MARKER	MARKER
DATE	5-11-82
NO. DATE E.C. BY	REVISION



3	618062	1/2 nut - 90° hex
2	618197	1/2 nut x 1/2 washer
1	615270	4WD H. Press Tube
QTY	7/16	DESCRIPTION

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS

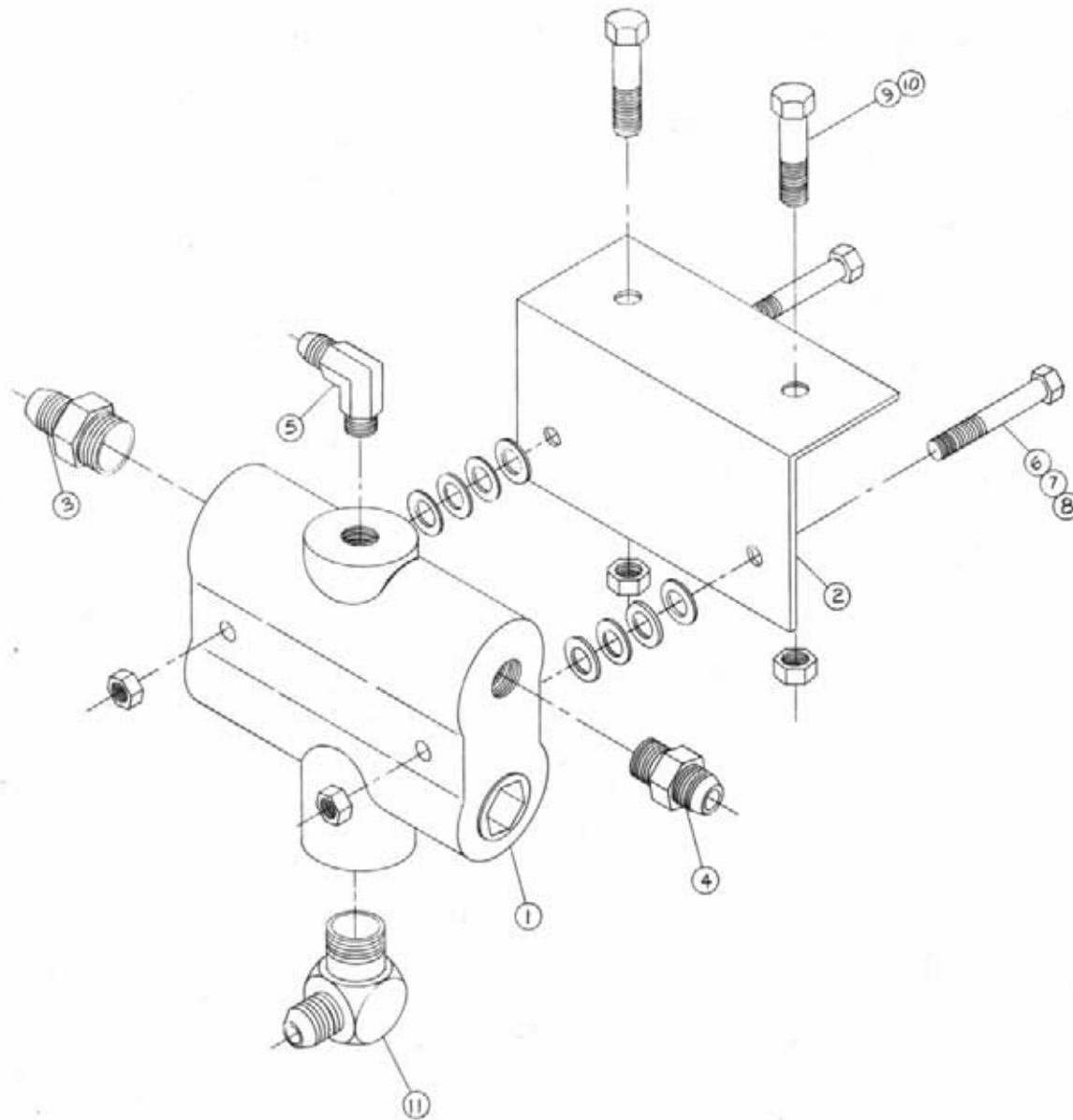
TOLERANCE UNLESS OTHERWISE SPECIFIED

FRACTION: DECIMALS: ANGLES:

DESCRIPTION: 4 WHEEL DRIVE H. PRESSURE T. Assy
DRAWN BY: L. COLEMAN
CHECKED BY: NONE
APPROVED BY: L. COLEMAN

DATE: 12-19-78
REVISION NUMBER:

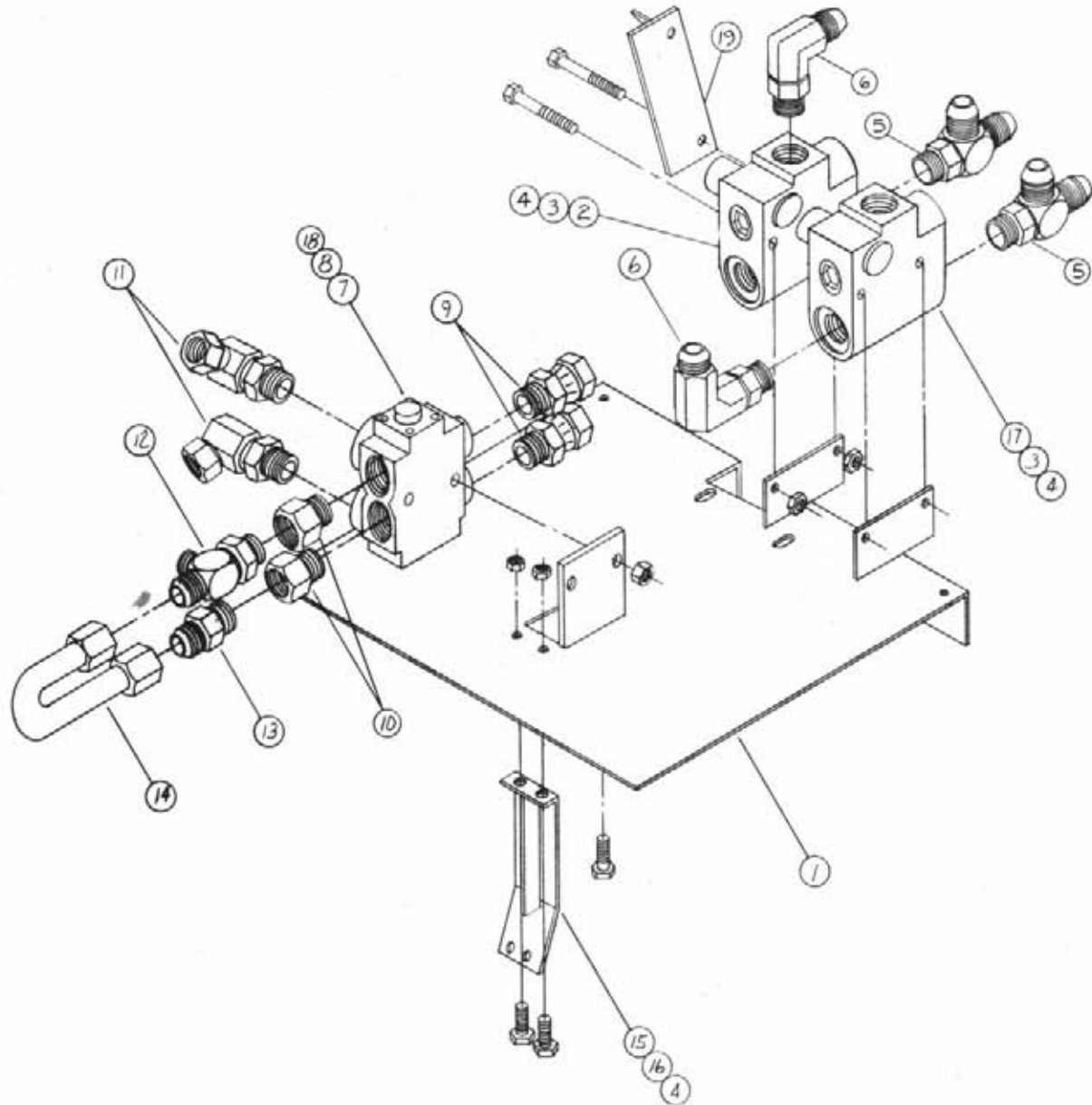
NO.	DATE	E.C. BY	REVISION



11	1	618156	3/8 MNPT x 30° x 3/8 MJIC
10	2	914004	3/8 UNC LOCK NUT
9	2	900132	3/8 UNC x 1 1/2 HEX BOLT
8	8	920000	3/8 SAE FLAT WASHER
7	2	914000	3/8 UNC LOCK NUT
6	2	900023	3/8 UNC x 2 1/2 HEX BOLT
5	1	618015	3/8 MNPT x 90° x 3/8 MJIC
4	1	618435	3/8 MNPT x 3/8 MJIC
3	1	618059	3/8 MNPT x 3/8 MJIC
2	1	615340	FLO DIVIDER MOUNT
1	1	607509	FLO DIVIDER

P/N		DESCRIPTION	
HAGIE			
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525			
REMOVE ALL SHARP CORNERS & BURRS			
TOLERANCES UNLESS OTHERWISE SPECIFIED			
FRACTION	DECIMALS	ANGLES	
DESCRIPTION FLOW DIVIDER ASSEMBLY			
DESIGNED BY K. LEHRMAN	SCALE NONE		
CHECKED BY	APPROVED BY		
DATE 1-2-79	DRAWING NUMBER		

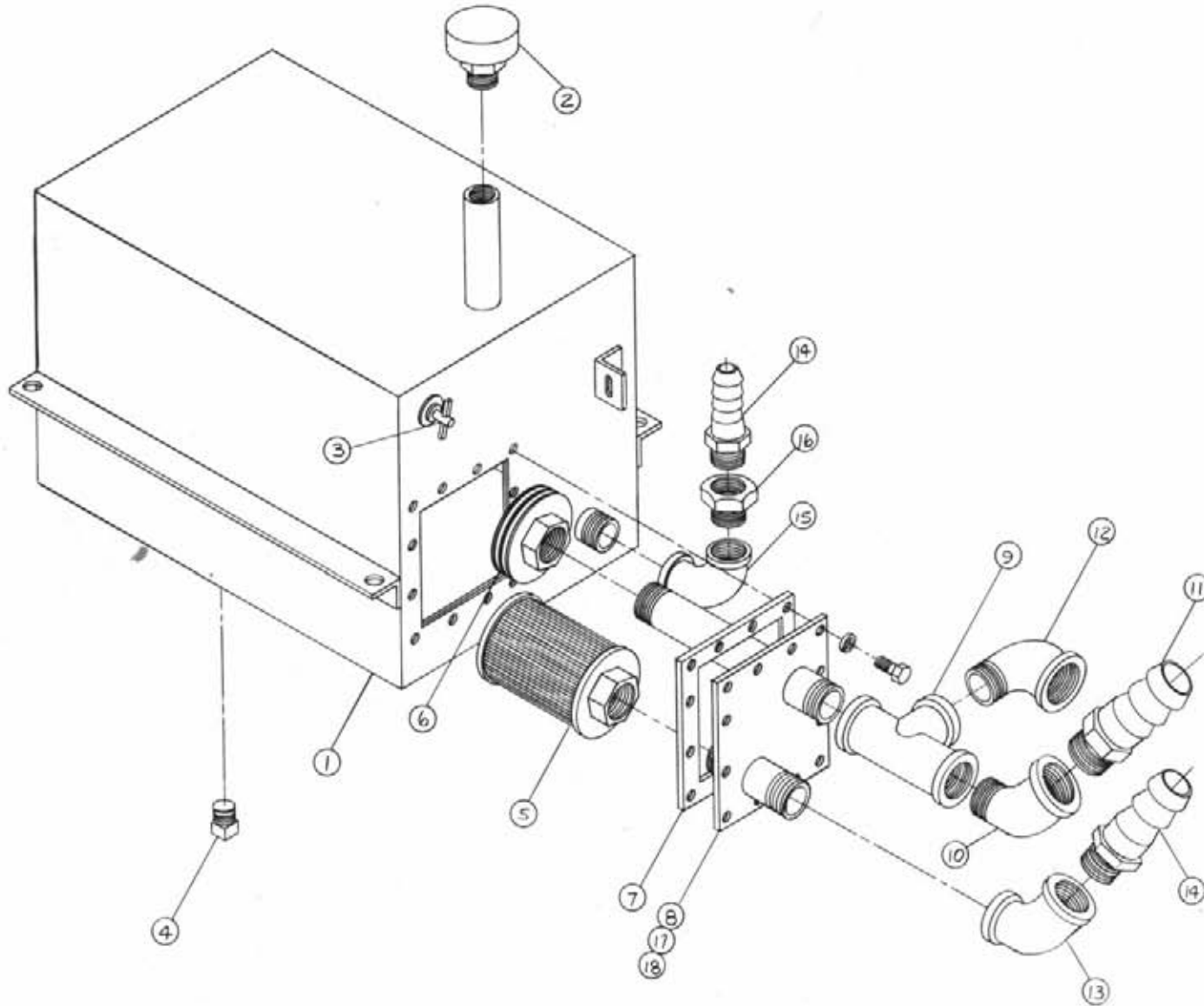
NO.	DATE	BY	REVISION
SHEET	OF		



19	615353	VFC CONTROL STOP
18	918004	3/8 UNC LOCK W/ T
17	606827	FLOW DIVIDER DS
16	900000	1/4 UNC X 2 1/2 HEX BOLT
15	615221	4WD CABLE BRACE
14	618198	4WD U-TUBE
13	611126	1/8 UNC X 1/8 MAX CARR
12	618287	1/8 UNC X 1/8 UNC X 1/2 EXT
11	618100	1 1/4 UNC X 1/2 X 1/4 W/ M
10	618132	1 1/4 UNC X 1/8 FOR
9	618095	1 1/4 UNC X 1/2 W/ M
8	900135	1/8 UNC X 2 1/2 BOLT
7	606003	GREEN 4WD HANE
6	611128	1/8 UNC X 1/8 X 1/2 W/ M
5	618130	1/8 UNC X 1/8 W/ T
4	918000	1/4 UNC LOCK NUT
3	900008	1/4 UNC X 2 1/2 BOLT
2	606818	SOL. VALVE VFC
1	615315	VALVE MFG PLATE MFG

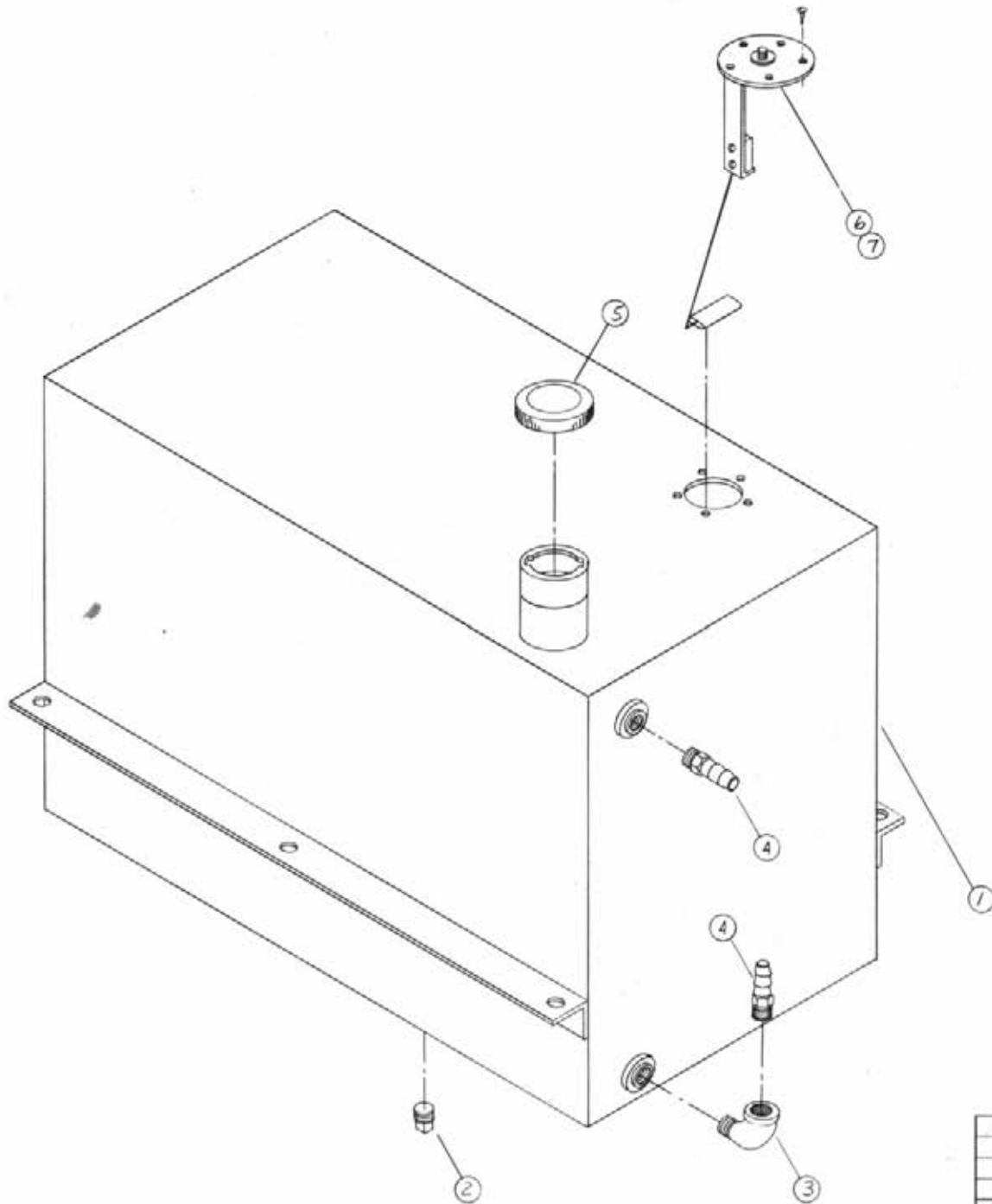
HAGIE		
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCES UNLESS OTHERWISE SPECIFIED		
FRACTION	DECIMALS	ANGLES
DESCRIPTION: VALVE PLATE ASSEMBLY		
DRAWN BY: Z. GERMAN	SCALE: NONE	
CHECKED BY:	APPROVED BY: Z. GERMAN	
DATE: 1-5-79	DRAWING NUMBER:	

NO. DATE	BY	REVISION



18	12	900064	3/16 UNC X 3/4 BOLT
17	12	920001	3/16 SAE FLAT WASHER
16	1	506005	1 X 1/8 REDUCER BUSH.
5	1	506303	1/2 NPT-90° PIPE ELBOW
4	2	719560	1" NPT X 1" HOSE BARB
3	1	506301	1" NPT-45° PIPE ELBOW
12	1	505200	1" NPT-90° STREET EL.
11	1	719331	1" NPT X 3/4 HOSE BARB
10	1	505110	1" NPT 45° STREET EL.
9	1	505101	1" NPT PIPE TEE
8	1	760629	RECEIVER PLATE WLD.
7	1	763039	MOUNTING GASKET
6	1	605603	OIL DIFFUSER
5	1	605600	FILTER
4	1	501102	3/8 NPT PIPE PLUG
3	1	319559	DRAIN COCK
2	1	457476	FILLER CAP
1	1	760617	DIESEL TANK DEVELOPMENT
SYMBOL		P/N	DESCRIPTION

HAGIE		
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50538		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
FRAC(TION)	DECIMALS	ANGLES
DESCRIPTION	OIL TANK ASSEMBLY	
DRAWN BY	K. LEHMAN	SCALE
CHECKED BY		APPROVED BY
DATE	5-23-80	DRAWING NUMBER
NO. DATE E.C. BY	REVISION	SHEET 19

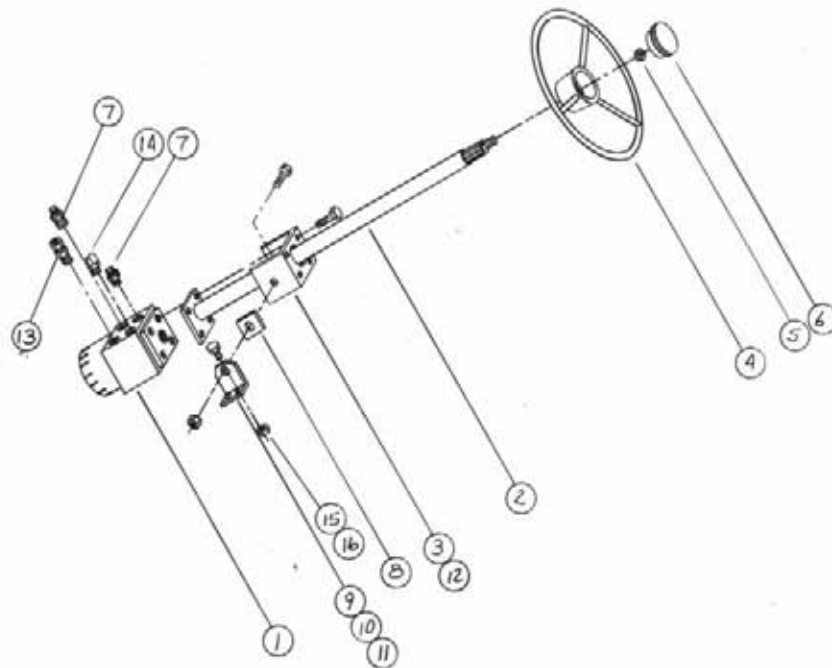


7	5	473902	18 x 1/2 METAL SCREEN
6	1	27142B	FUEL SENDER
5	1	761200	FUEL CAP
4	2	711002	1/4 NPT x 1/4 HOUSING
3	1	501450	1/4 NPT 90° ST. EL.
2	1	501102	1/4 NPT PIPE PLUG
1	1	760627	FUEL TANK W/O
TOTAL		7	DESCRIPTION

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, OHIO 43025
REMOVE ALL SHARP CORNERS & BURRS
TOLERANCES UNLESS OTHERWISE SPECIFIED
FRACTION DECIMALS ANGLES

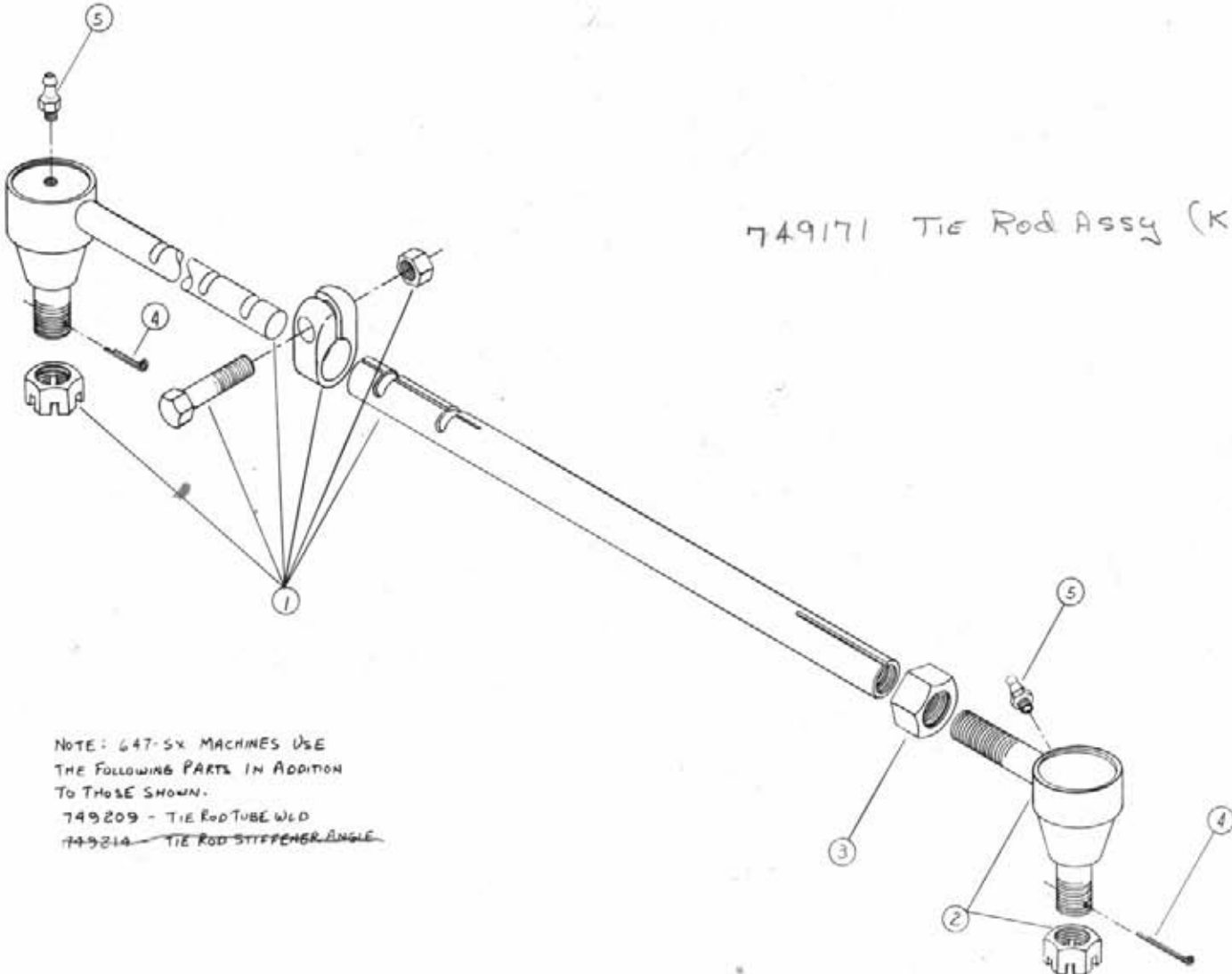
DESCRIPTION	FUEL TANK ASSEMBLY
DRAWN BY	L. GERMAN
CHECKED BY	None
DATE	12-7-78
DRAWING NUMBER	

NO.	DATE	E.C.	BY	REVISION



16	2	714002	5/16 UNF LOCK NUT
15	2	900065	5/16 UNF 1" BOLT
14	1	618188	3/4 UNF 45° 20 UNF
13	1	618048	3/4 UNF x 78 1/2 IN
12	4	900130	3/8 UNF x 1 1/4 BOLT
11	2	900264	1/2 UNF x 1 1/4 BOLT
10	2	714008	1/2 UNF LOCK NUT
9	1	749130	STEG. MTR. SIDE MT.
8	1	310814	MOUNTING PAD
7	2	618109	3/4 UNF x 3/4 IN LG.
6	1	749193	STEG. WHL. COVER
5	1	471018	STEG. WHL. NUT
4	1	749192	STEG. WHL. MOUNT
3	1	749131	STEG. MTR. MOUNT
2	1	749128	STEG. COLUMN
1	1	749150	STEG. MOVER

HAGIE		
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCES UNLESS OTHERWISE SPECIFIED		
FRACTION :	DECIMALS :	ANGLES :
DESCRIPTION STEERING COLUMN ASSEMBLY		
DRAWN BY L. GERMAN	SCALE 1/16"	APPROVED BY L. GERMAN
CHECKED BY	DATE 9/82	DRAWING NUMBER 1-16-79
NO. DATE E.C. BY	REVISION	SHEET OF



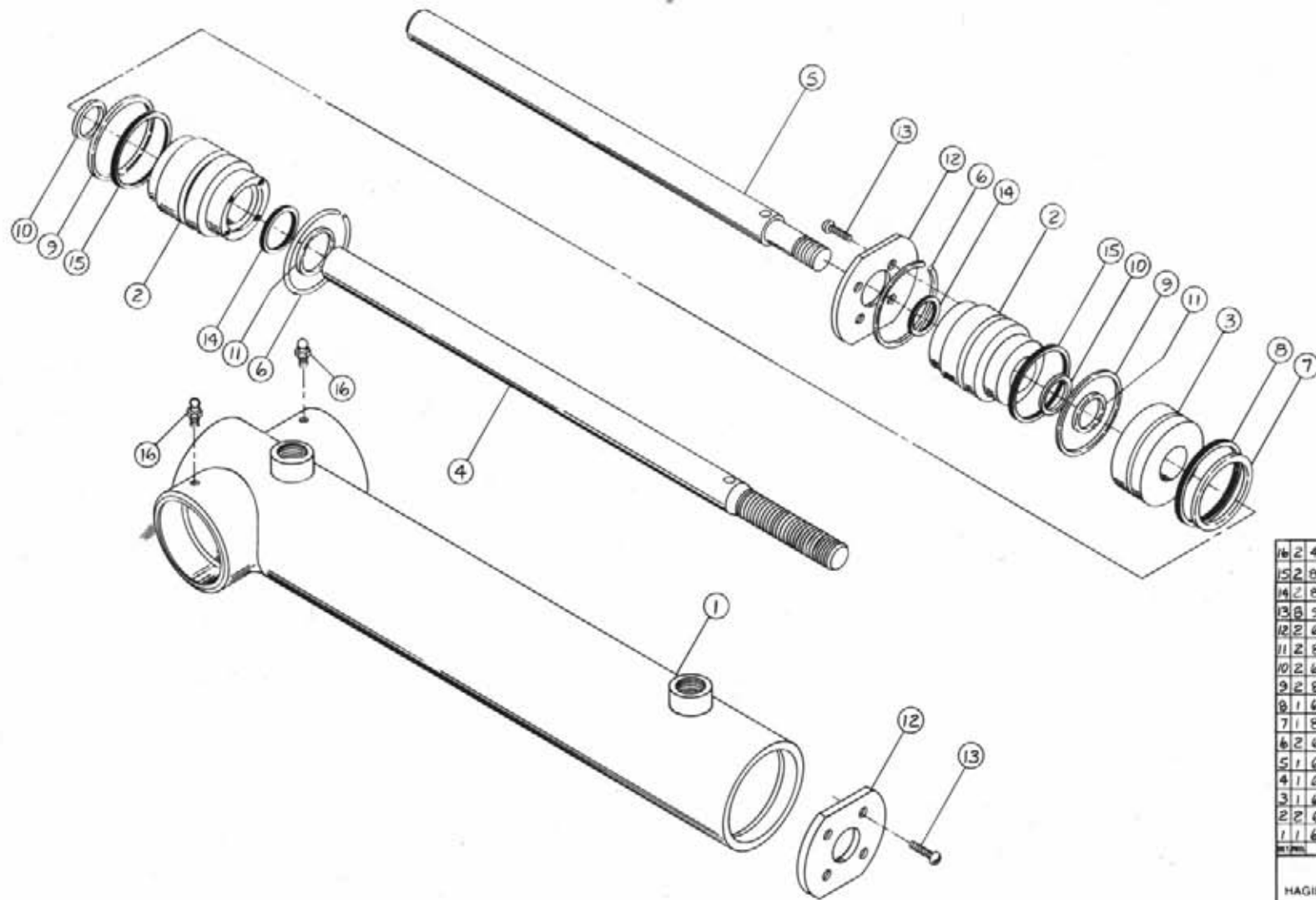
749171 Tie Rod Assy (K) ^{CONTAINS}
 471021 (P)
 740413 (P)
 740426 (P)
 749164 (P)

NOTE: 647-SX MACHINES USE
 THE FOLLOWING PARTS IN ADDITION
 TO THOSE SHOWN:
 749209 - TIE ROD TUBE W/LD
 749214 - TIE ROD STIFFENER ANGLE

5	2	471021	Anti-Grip Lock
4	2	470030	#1 1/4 Cutter Pin
5	1	740426	Tie Rod Lock Nut
2	1	740413	Socket Assy
1	1	749164	Tie Rod Assy

HAGIE
 HAGIE MANUFACTURING COMPANY
 CLARION, IOWA 50525
 REMOVES ALL SHARP CORNERS & BURRS
 TOLERANCES UNLESS OTHERWISE SPECIFIED
 FRACTION DECIMALS ANGLES

DESCRIPTION		Tie Rod Assembly	
DRAWN BY	SCALE	CHECKED BY	APPROVED BY
L. Gorman	None	L. Gorman	L. Gorman
DATE	1-9-73	DRAWING NUMBER	
NO. DATE	E.C. BY	REVISION	SHEET OF

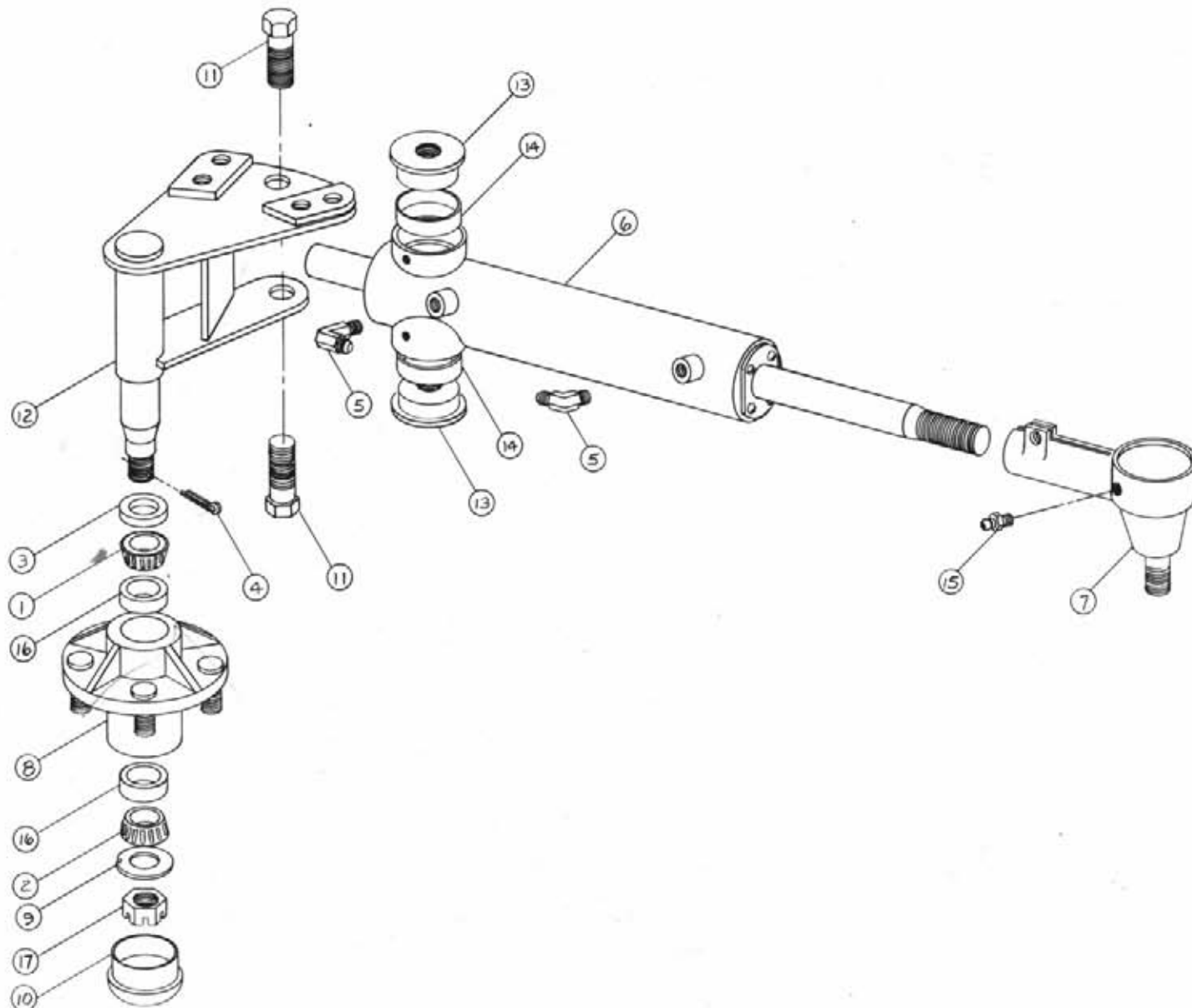


16	2	471005	1/4-28x1/2 GEARL ZEAR
15	2	890224	BACK UP WASHER
14	2	890216	BACK UP WASHER
13	8	903883	#10-32x1/2 SCREW
12	2	620257	RETAINER PLATE
11	2	870216	O-RING
10	2	629001	WIPER SEAL
9	2	870224	O-RING
8	1	629615	SLIPPER RING
7	1	870129	O-RING
6	2	629524	RETAINER RING
5	1	620256	FOLLOWER RAM
4	1	620155	DRIVE RAM
3	1	620254	PISTON
2	2	620253	GLAND
1	1	620153	TUBE WELDMENT
QTY		PN	DESCRIPTION

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50535
REMOVES ALL SHARP CORNERS & BURRS
TOLERANCES UNLESS OTHERWISE SPECIFIED

DESCRIPTION	STEERING CYLINDER ASSEMBLY
DRAWN BY	K. LEHRMAN
CHECKED BY	
DATE	5-20-80
DRAWING NUMBER	

NO.	DATE	E.C. BY	REVISION



17	1	822040	SPINDLE NUT
16	2	71018	BEARING CUP
15	1	471021	GREASE ZERR
14	2	749199	BRONZE PILOT BUSHING
13	2	749198	PILOT INNER BEARING
12	1	749195	PILOT WELDMENT
11	2	900400	3/4 UNC X 1 1/4 HEX BOLT
10	1	822060	HUB CAP
9	1	822031	SPINDLE WASHER
8	1	822010	HUB WITH CUPS
7	1	749156	FEMALE SOCKET ASSY
6	1	620152	STEERING CYLINDER
5	2	611122	KAMPT-90° 3/8 MUC
4	1	47200B	COTTER PIN
3	1	129010	GREASE SEAL
2	1	125015	OUTER BEARING CONE
1	1	125010	INNER BEARING CONE
TOTAL		P/N	DESCRIPTION

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS

TOLERANCE UNLESS OTHERWISE SPECIFIED

FRACTION	DECIMAL	ANGLES

DESCRIPTION: STEERING HUB ASSEMBLY

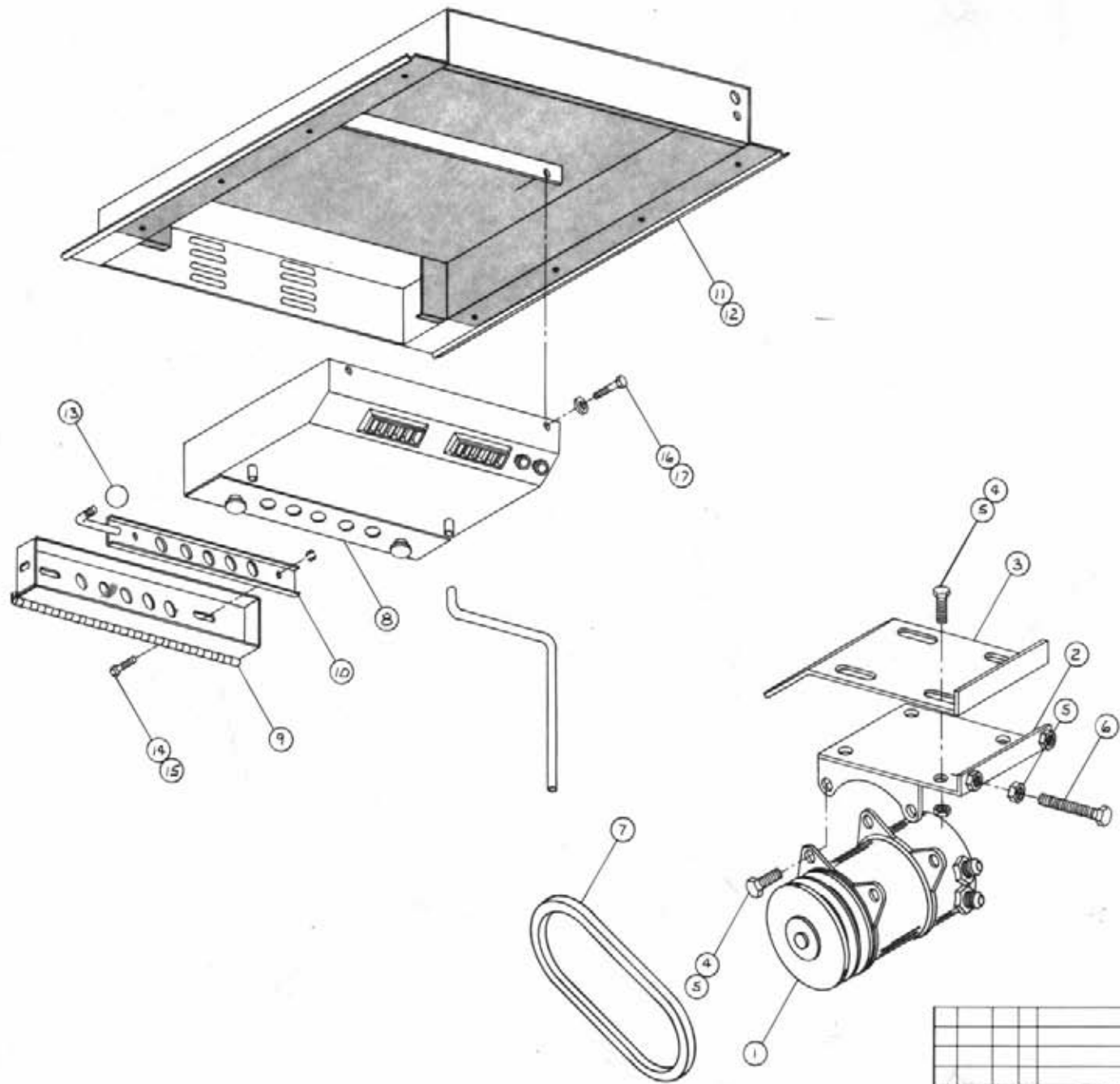
DRAWN BY: K. LEHRMAN SCALE: NONE

CHECKED BY: APPROVED BY:

DATE: 5-22-60 DRAWING NUMBER:

NO. DATE E.C. BY REVISION SHEET OF

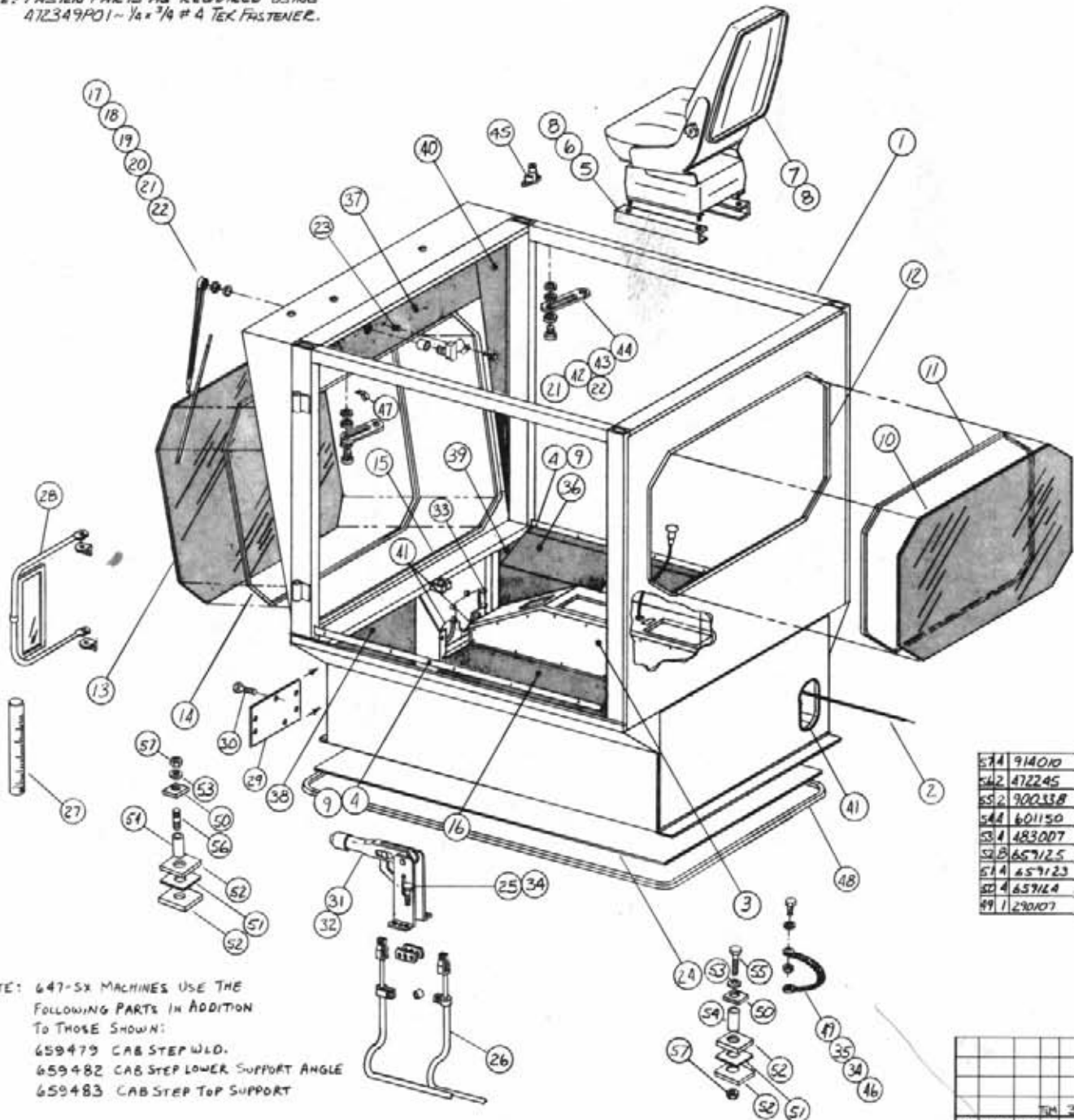
NO.	DATE	E.C.	BY	REVISION



17	2	920002	3/8 Flat Washer
16	2	900130	3/8 Hex Bolt
15	2	914000	3/8 Lock Nut
14	2	900000	1/4 Hex Bolt
13	1	659291	1" Dia Knob
12	1	659548	Cab Rear Wld
11	1	659597	Cab Rear Foam
10	1	659442	A/C Drive As Sock Wld
9	1	659439	A/C Drive Hnd Wld
8	1	657303	A/C Evaporator Kit
7	1	147045	4L450 Belt
6	2	906136	3/8 Hex Bolt
5	10	914004	3/8 Lock Nut
4	8	900129	3/8 Hex Bolt
3	1	657319	A/C Pump Mtl Wld
2	1	657311	A/C Pump Incompressor
1	1	657310	A/C Compressor

HAGIE		
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525		
REMOVE ALL SHARP EDGES & BURRS		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
FRACTION:	DECIMAL:	ANGLE:
DESCRIPTION Cab Rear Assembly		
DESIGNED BY E. MARRER	SCALE	DATE
CHECKED BY	APPROVED BY	
DATE 3-10-82	DRAWING NUMBER	
NO. DATE E.C.B.Y.	REVISION	SHEET OF

NOTE: FASTEN PARTS AS REQUIRED USING
472349P01 - 1/4" x 3/4" # 4 TEK FASTENER.



NOTE: 647-SX MACHINES USE THE
FOLLOWING PARTS IN ADDITION
TO THOSE SHOWN:
659479 CAB STEP WLD.
659482 CAB STEP LOWER SUPPORT ANGLE
659483 CAB STEP TOP SUPPORT

48	172002	Weatherstrip 112"
47	520119	1/2" Cassin Clamp
46	1720001	1/2" Cab Featherliner
45	659113	Foam-Lt. Ft. Post
45	659111	Foam-Lt. Fender
45	659110	Foam-Low. Back
45	659105	Foam-Upper Back
45	659104	Foam-Ft. Roof
45	290412	Dimmer Switch
44	920002	1/8" SAE Fastener
43	659159	Door Catch Wld
42	470024	Rolling Knob
41	493016	Jiffy Trim 170"
40	659114	Foam-Ref. Pad
39	659103	Foam-Chance
38	659106	Foam-Lt. Low. Front
37	659107	Foam-Upper Front
36	659112	Foam-Rt. Fender
35	900065	Flange Bolt
34	914002	1/4" UNC Lock Nut
33	470006	1/4" UNC NUTSRT
32	200464	Panel Bead Spacer
31	826108	Round Lever Assy
30	900000	1/4" x 1 1/2" Hex Bolt
29	659278	Valve Cover
28	650524	Panel View Mirror
27	671801	Calibration Tool
26	826154	Control Cable-124"
25	900064	1/4" UNC 1/2" Hex Bolt
24	659375	Flood Plate
23	200019	Spacer
22	914000	1/4" UNC Lock Nut
21	900005	1/4" UNC 1/2" Bolt
20	200027	Wiper Spacer
19	658008	Wiper Motor
18	658013	Wiper Arm
17	659049	Wiper Blade-16"
16	659115	Floor Mat
15	173018	Weatherstrip 116"
14	172001	Filter Strip 116"
13	659047	Ft. Windshield
12	173018	Weatherstrip 176"
11	172001	Filter Strip 96"
10	659046	Rear Window
9	914010	1/4" UNC Lock Nut
8	472245	1/2" UNC 5" Stud
7	900338	1/2" UNC 3" Bolt
6	601150	Hose-Cab Mtg
5	483007	Washer-1/2" x 1/2"
4	659125	Mtg. Pad-Large
3	659123	Mtg. Pad-Small
2	659164	Mtg. Pad-Small
1	123017	8" Ground Strap
9	485052	1/8" x 1/8" Hex Bolt
8	914004	1/4" UNC Lock Nut
7	1330012	Seat
6	900130	3/8" x 1/4" Hex Bolt
5	341225	Seat Mtg. Channel
4	659201	Face Channel
3	659042	Control Side Cover
2	785018	Choke Cable
1	659275	Cab Weldment

574	914010	1/4" UNC Lock Nut	96	485052	1/8" x 1/8" Hex Bolt
542	472245	1/2" UNC 5" Stud	88	914004	1/4" UNC Lock Nut
552	900338	1/2" UNC 3" Bolt	71	1330012	Seat
544	601150	Hose-Cab Mtg	64	900130	3/8" x 1/4" Hex Bolt
534	483007	Washer-1/2" x 1/2"	52	341225	Seat Mtg. Channel
528	659125	Mtg. Pad-Large	42	659201	Face Channel
514	659123	Mtg. Pad-Small	31	659042	Control Side Cover
504	659164	Mtg. Pad-Small	21	785018	Choke Cable
491	123017	8" Ground Strap	11	659275	Cab Weldment

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS
TOLERANCES UNLESS OTHERWISE SPECIFIED

FRAC101 DECIMAL1 INCHES1

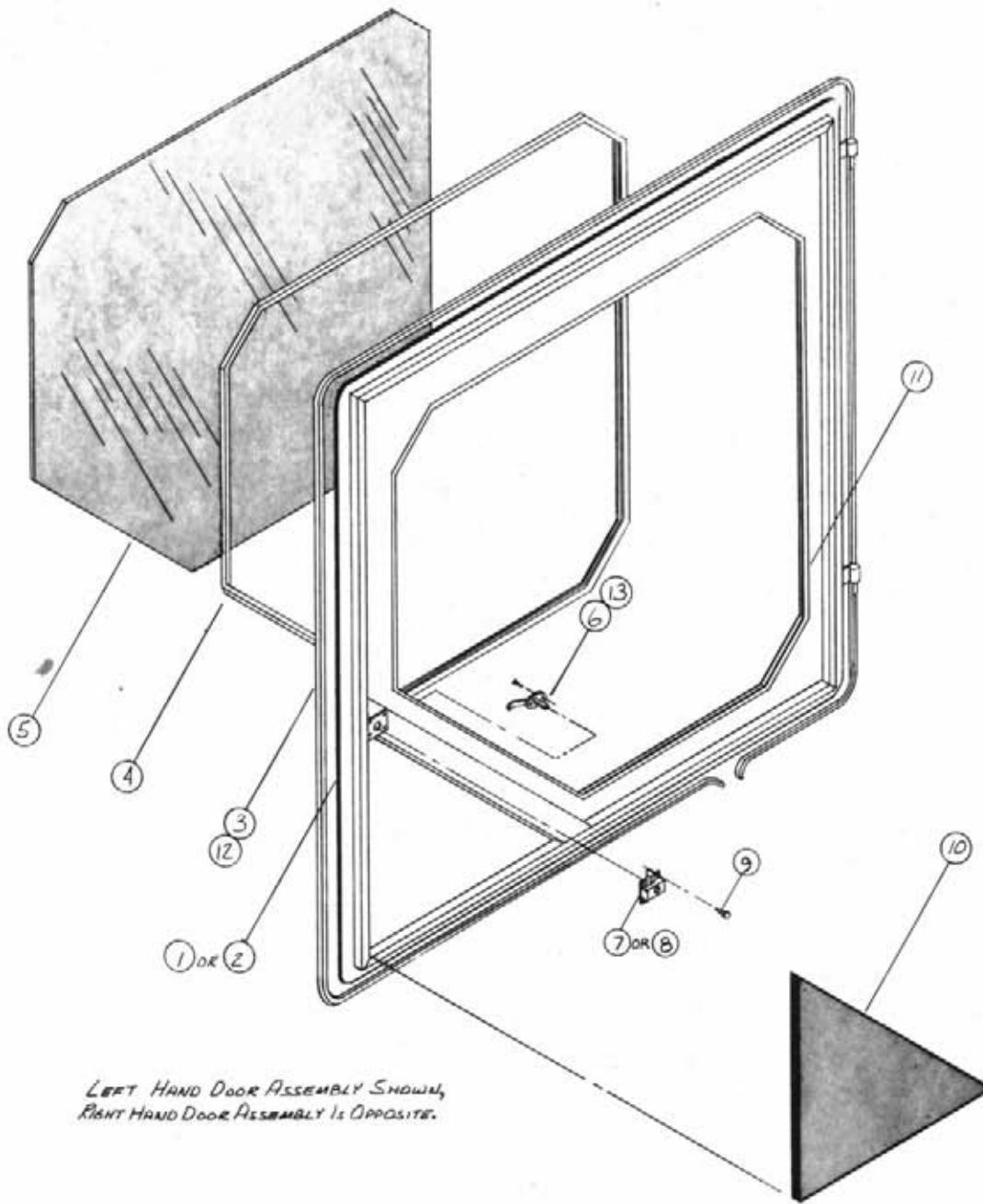
DESCRIPTION: **Partial Cab Assembly**

DRAWN BY: L. GERMAN SCALE: NONE

CHECKED BY: APPROVED BY: J. Germond

DATE: 12-15-78 DRAWING NUMBER:

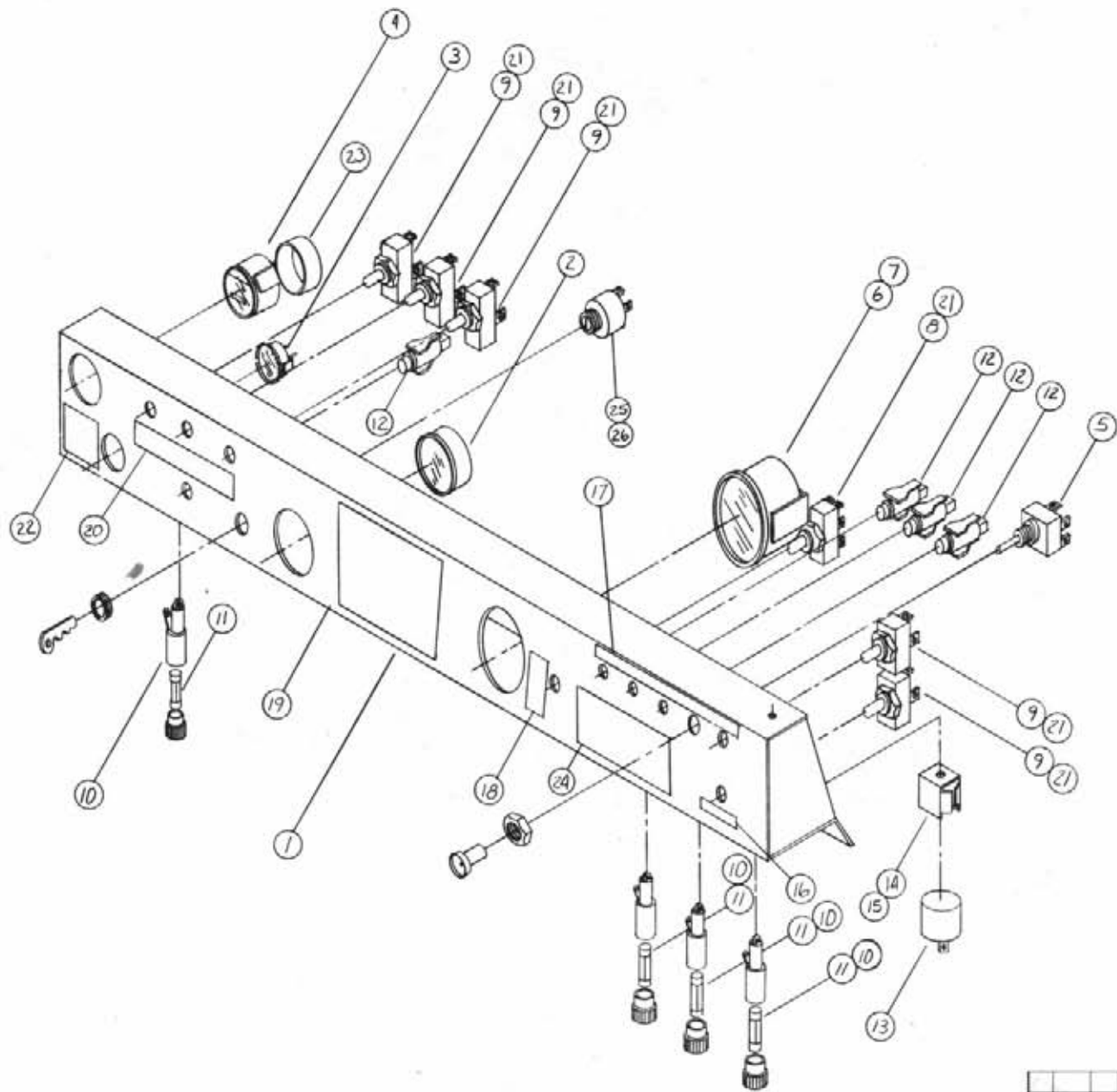
NO. DATE E.C. BY REVISION SHEET OF



LEFT HAND DOOR ASSEMBLY SHOWN,
RIGHT HAND DOOR ASSEMBLY IS OPPOSITE.

13	2	473702	#8 x 1/2 SCREW
12	2	485052	1/8 x 7/8 ALU RIVET
11	1	193018	2 IN. WEATHERSTRIP
10	1	657108	CAB DOOR FOAM
9	4	472552	#10 x 3/4 #3 TEK
8	1	650522	L. DOOR LOCK
7	1	650521	R. DOOR LOCK
6	1	650523	DOOR HANDLE
5	1	659048	SIDE WINDOW
4	1	192001	FILLER STRIP - 106"
3	1	173028	SUNSHADE - 141"
2	1	657053	L. DOOR WLD
1	1	657052	R. DOOR WLD

HAGIE		
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
FRACTION	DECIMALS	ANGLES
DESCRIPTION: <i>LT. L.H. CAR DOOR ASSEMBLY</i>		
DRAWN BY: <i>L. COBMAN</i>	SCALE: <i>NONE</i>	APPROVED BY: <i>L. COBMAN</i>
CHECKED BY:	DATE: <i>12-15-78</i>	DRAWING NUMBER:
NO DATE C.B.Y. REVISION		SHEET OF:



24	903836	#8-32 x 1/8 SCREW
25	316075	IGNITION SWITCH
24	650893	DECL. - DUEL STRAT
25	670009	DECL. TIMER SPACER
22	650843	DECL. - REEF TIMER
27	470001	RUBBER BOOT "HAUT"
20	650973	DECL. - DOOR CHANGE
17	650974	DECL. - CUTAWAY CARGO
18	650939	DECL. - PHAN / MPH
17	650873	DECL. - IND LIGHTS
16	650977	DECL. - FLASHER
15	485052	1/8" x 3/8" RIVET
14	473916	FLASHER HOLDER
13	473917	FLASHER SAE 536
12	370318	INDICATOR LIGHT
11	298004	20 AMP FUSE
10	278011	FUSE HOLDER
9	527802	TOGGLE SWITCH
8	278204	RPM / MPH SWITCH
7	650935	DECL. - SPEEDMETER
6	679000	SPEEDOMETER
5	290046	LIGHT SWITCH
4	670011	REEF TIMER
3	1290401	FUEL GAUGE
2	291203	HOUR METER
1	657024	INST. PANEL HOUSING

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

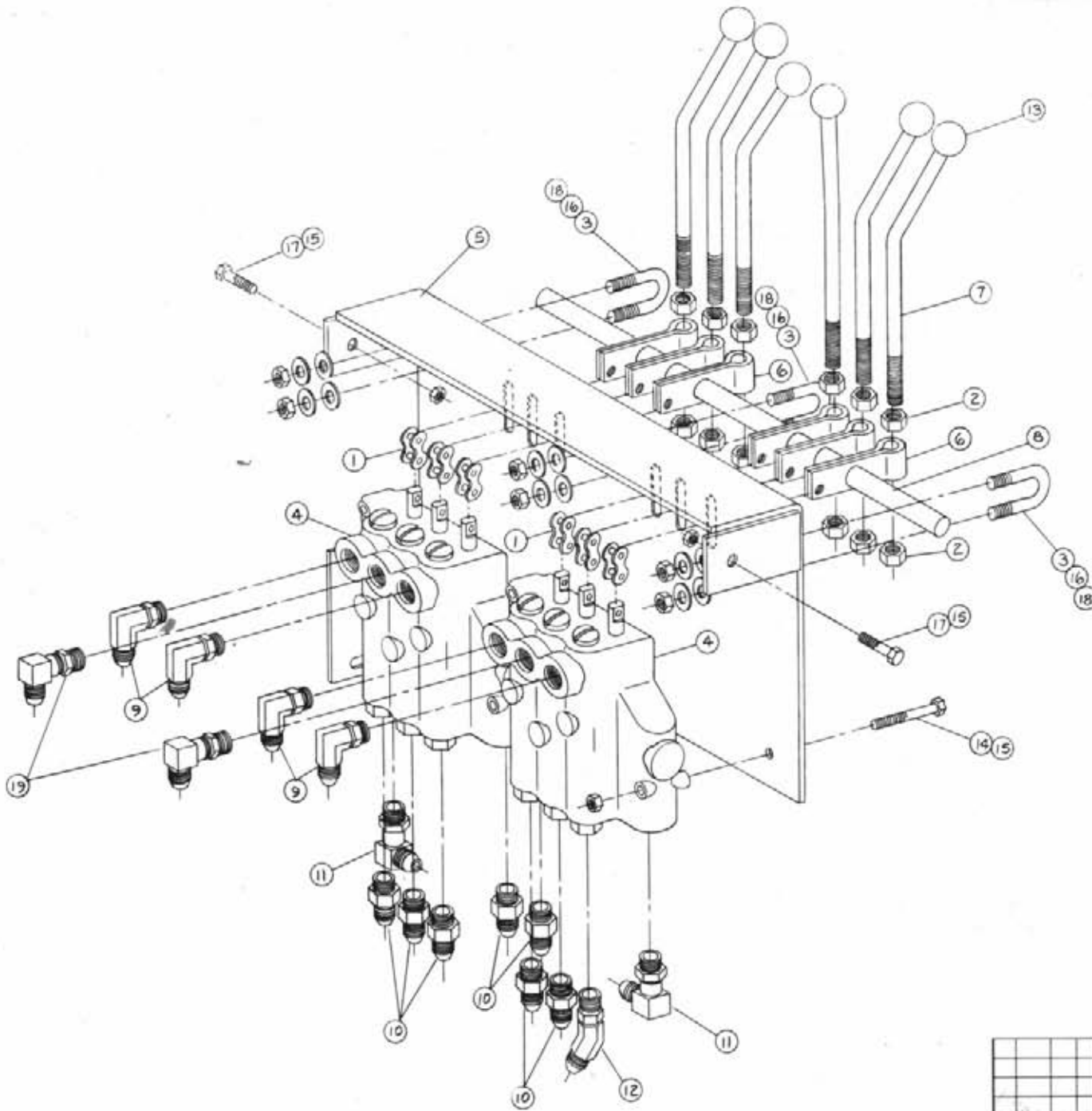
REMOVE ALL SHARP CORNERS & BURRS

TOLERANCES UNLESS OTHERWISE SPECIFIED

DESCRIPTION:	INSTRUMENT PANEL ASSY	
DRAWN BY:	R. GERMAN	SCALE: NONE
CHECKED BY:		APPROVED BY: R. GERMAN
DATE:	12-15-78	DRAWING NUMBER:

NO.	DATE	E.C. BY	REVISION

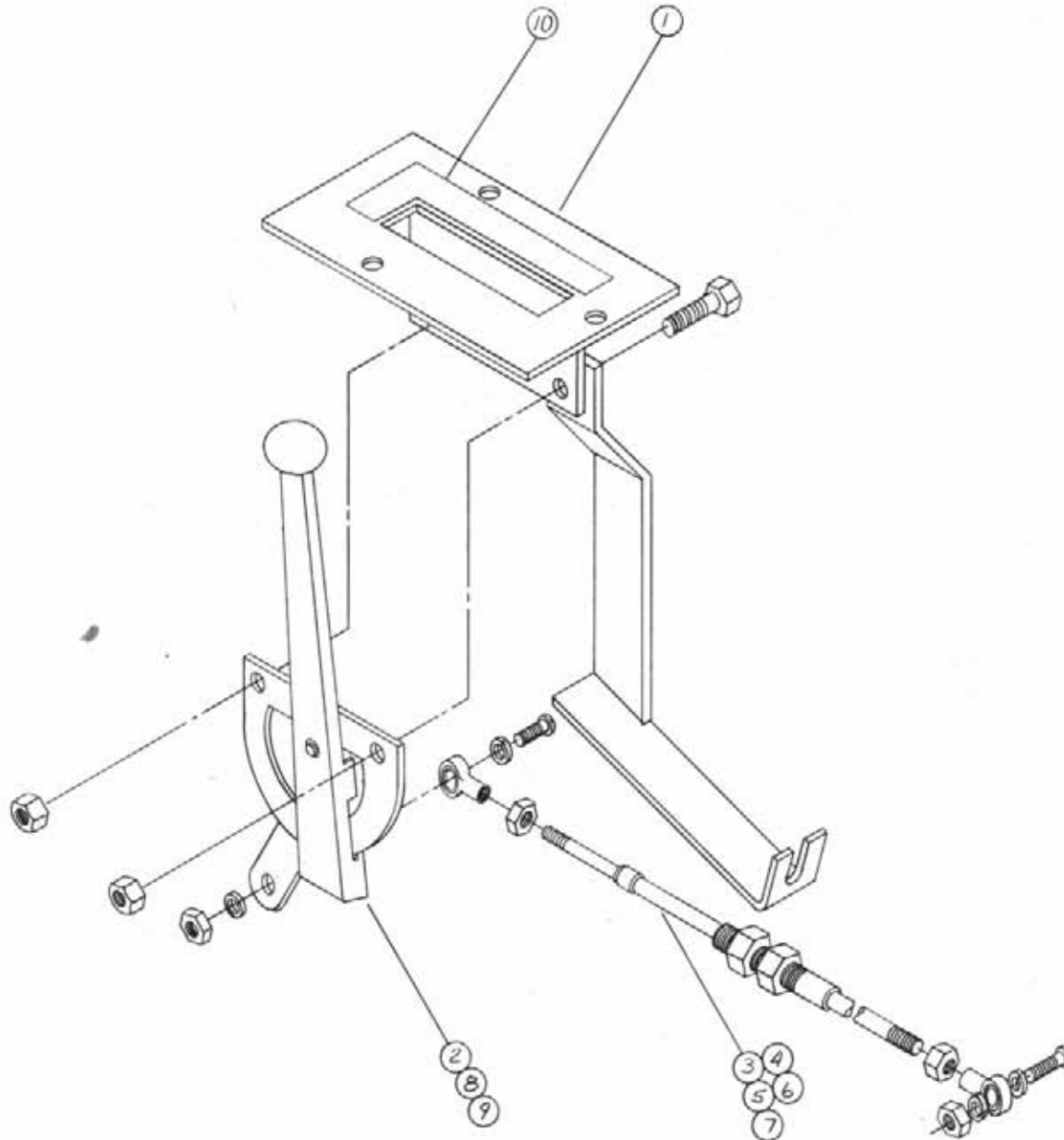
SHEET 10



19	2	618440	3/8 MOR 20 3/8 EN LONG MUC
18	2	920002	3/8 SAE WASHER
17	3	300002	1/2 UNC X 3/4 HEX BOLT
16	6	300003	3/8 UNF HEX NUT
15	7	914000	1/2 UNC LOCK NUT
14	4	300007	1/2 UNC X 2 HEX BOLT GAS
13	6	785007	K NOB
12	1	618425	3/8 MOR X 452 3/8 MUC
11	2	618424	3/8 MOR X 306 3/8 L D. MUC
10	7	618126	3/8 MOR X 3/8 JIC ADPR
9	4	618119	3/8 MOR X 30 X 3/8 JIC
8	1	615338	VALVE HANDLE PIVOT ROD
7	6	615337	VALVE HANDLE
6	6	615336	VALVE HANDLE LINK
5	1	615332	VALVE MT WLD
4	2	606585	3 S POOL VALVE
3	3	470088	3/8 UNF U-BOLT
2	12	470087	3/8 UNC W/2 LOC NUT
1	6	221001	CONN LINK CLIP
SYMBOL		QTY	DESCRIPTION

HAGIE
HAGIE MANUFACTURING COMPANY
CLARKSON, IOWA 50525
REMOVE ALL SHARP CORNERS & BURRS
TOLERANCES UNLESS OTHERWISE SPECIFIED

DESCRIPTION:	2-3 SPOOL VALVE ASSEMBLY		
DRAWN BY:	K. LEHMAN	SCALE:	NONE
CHECKED BY:		APPROVED BY:	
DATE:	12-5-78	DRAWING NUMBER:	
NO. DATE E. C. BY:		REVISION:	
SHEET:	30	OF:	



13	910027	#10-32 HEX NUT
10	650967	THROTTLE DECAL
9	914002	1/4 UNC LOCK NUT
8	900002	1/4 UNC x 1/4 BOLT
7	920510	1" ID LOCK WASHER
6	914027	#10-32 LOCK NUT
5	903889	#10-32 x 3/8 STAINLESS BOLT
4	473921	#10-32 PIN BUSHING
3	185017	10' 8" CONTROL CABLE
2	785005	CONTROL HEAD
1	659118	THROTTLE BUTTERFLY VALVE
QTY		DESCRIPTION

HAGIE
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CLARION, IOWA 50535

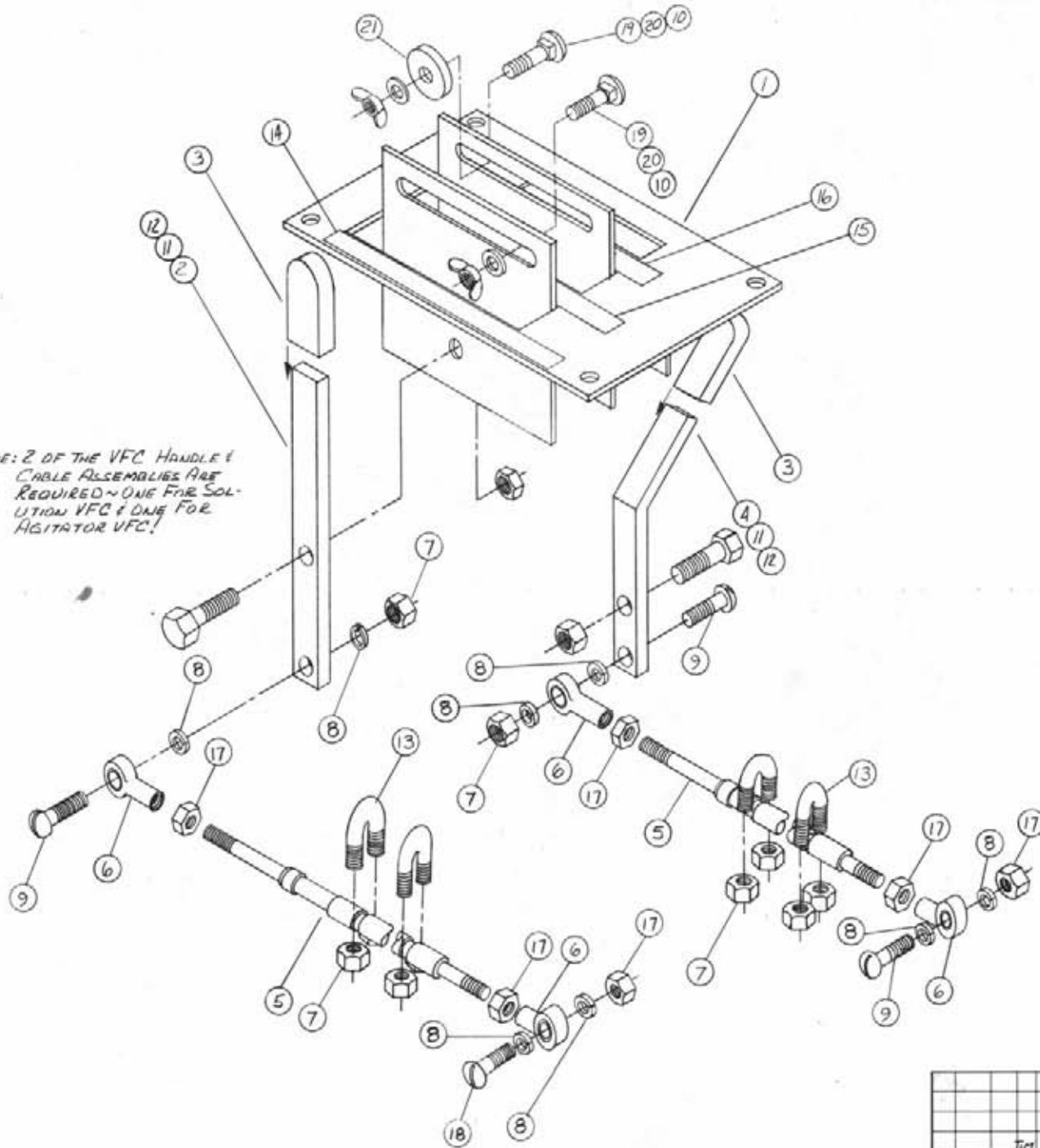
REMOVE ALL SHARP EDGES & BURRS

TOLERANCE UNLESS OTHERWISE SPECIFIED

DESCRIPTION: THROTTLE CONTROL ASSEMBLY
DRAWN BY: L. GERMAN
CHECKED BY: L. GERMAN

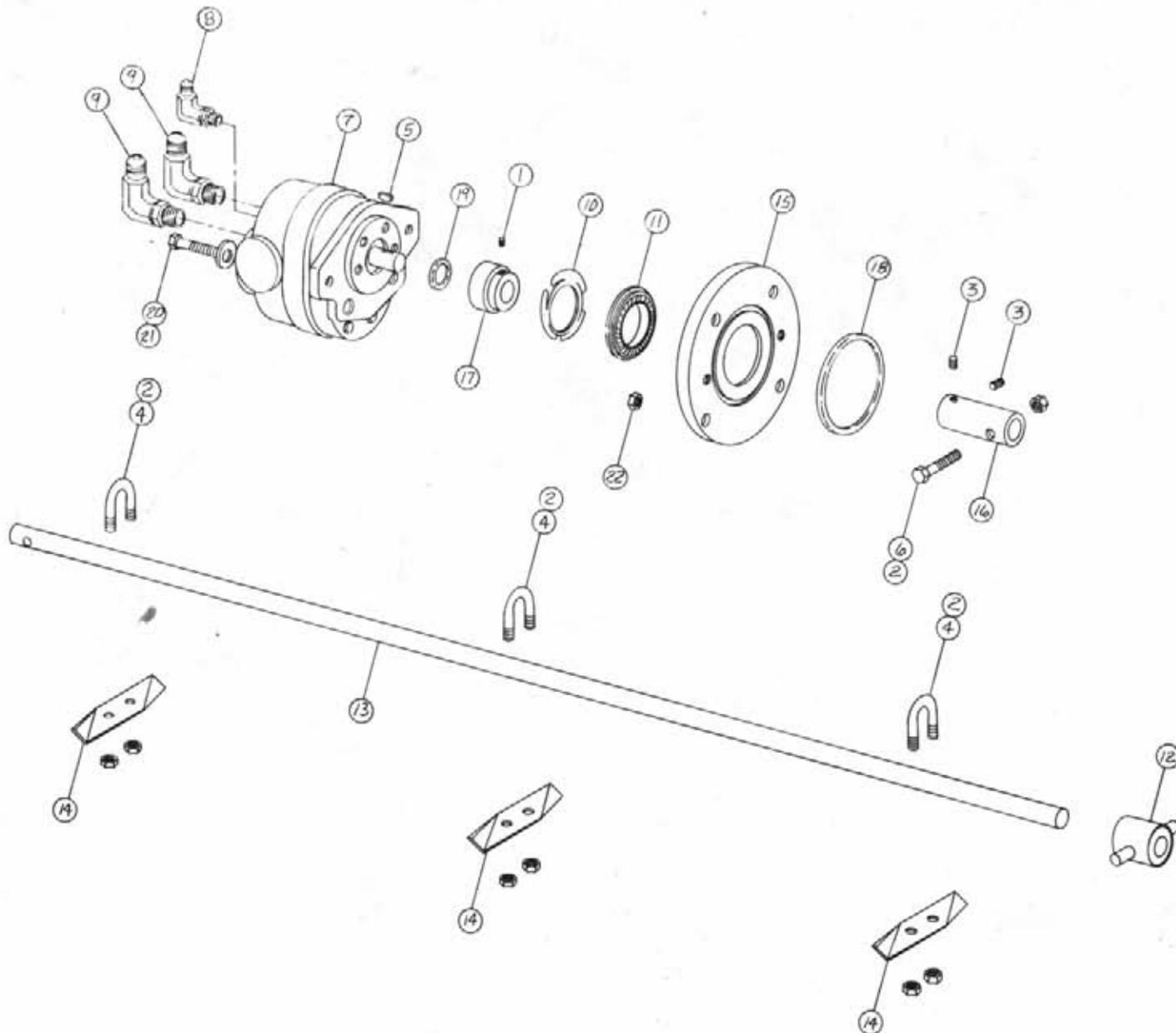
DATE	3/82	BY	L. GERMAN
NO.	12-16-78	REV	1
DATE		BY	
NO.		REV	

NOTE: 2 OF THE VFC HANDLE & CABLE ASSEMBLIES ARE REQUIRED - ONE FOR SOLUTION VFC & ONE FOR AGITATOR VFC!



21	483257	Roller
20	901064	Washer
19	473900	Wing Nut
18	903889	#10-32 x 3/8 Screw
17	910027	#10-32 Hex Nut
16	650971	Decal - 4WD
15	650970	Decal - Agitator
14	650969	Decal - Green Post
13	185017	U-Bolt
12	914000	Washer
11	900002	Washer
10	920002	Washer
9	903822	#10-32 Screw
8	920510	#10 Lock Washer
7	914027	#10-32 Lock Nut
6	473921	#10-32 Flat Washer
5	785015	3/4" Conical Cable
4	657079	4WD Handle
3	247003	Vinyl Hand Grip
2	657073	VFC Handle
1	657069	Control M. Wld.

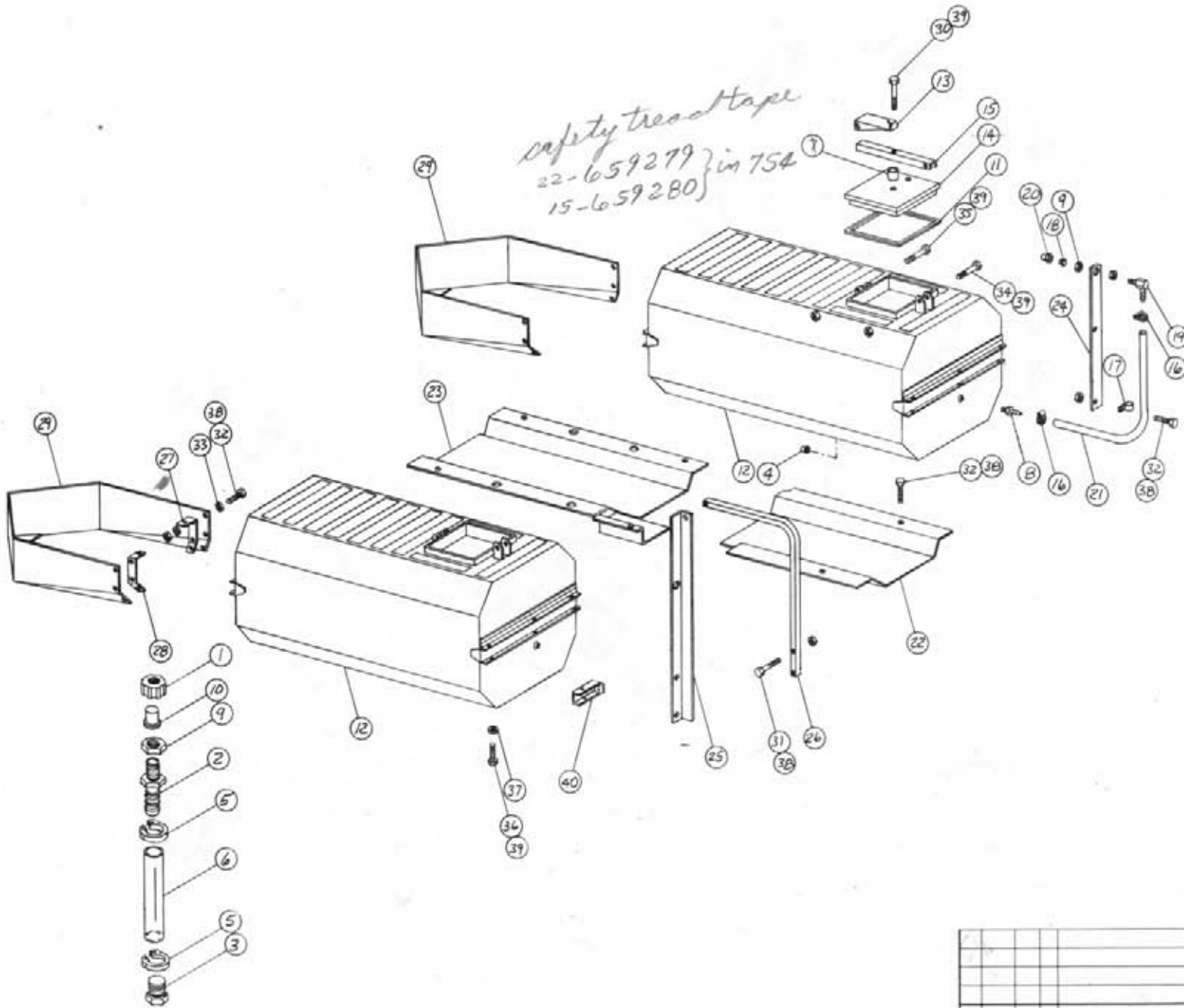
HAGIE		
HAGIE MANUFACTURING COMPANY		
CLARK, IOWA 50535		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCES UNLESS OTHERWISE SPECIFIED		
FRACTION	DECIMALS	ANGLES
DESCRIPTION	SCALE	DATE
VFC 1 AND Control Assy	NONE	1-12-79
DRAWN BY	CHECKED BY	APPROVED BY
L. GERMAN	L. GERMAN	L. GERMAN
DATE	SCALE	DESCRIPTION
1-12-79		
NO DATE C.B.Y.	REVISION	SHEET OF



24	914004	3/8 UNC LOCK NUT
21	920002	1/2 SAE FLAT WASHER
20	900130	3/8 UNC x 1 1/4 HEX BOLT
19	870503	VITON O-RING
18	870502	VITON O-RING
17	763085	BEARING
16	763073	MOTOR COUPLER
15	763072	MOTOR MTR. FLATE
14	763027	IMPELLER BLADE
13	763026	AGITATOR SHAFT
12	760559	TANK GLAND BRG
11	629617	ROTOR FLANGE SCR
10	629526	FLANGE SCREW WASHER
9	618241	3/8 DIA. 70° 3/4 CONE
8	618119	3/8 DIA. 70° 3/4 CONE
7	610044	BARREL MOTOR
6	473810	1/2 x 2 1/2 SS CAP SCREW
5	472003	1/4 WOODRUFF KEY
4	470092	1/4 UNC SS U-BOLT
3	470090	3/8-10 x SET SCREW
2	470089	1/4 UNC SS LOCK NUT
1	470083	3/8-10 x SET SCREW

HAGIE
 HAGIE MANUFACTURING COMPANY
 CLAMOND, IOWA 50535
 REMOVE ALL SHARP CORNERS & BURRS
 TOLERANCE UNLESS OTHERWISE SPECIFIED
 FRACTION: DECIMAL: ANGLES:

DESCRIPTION	AGITATOR ASSEMBLY
DRAWN BY	T. MARLER
DESIGNED BY	
DATE	5-21-80
NO. DATE	C. BY
REVISION	



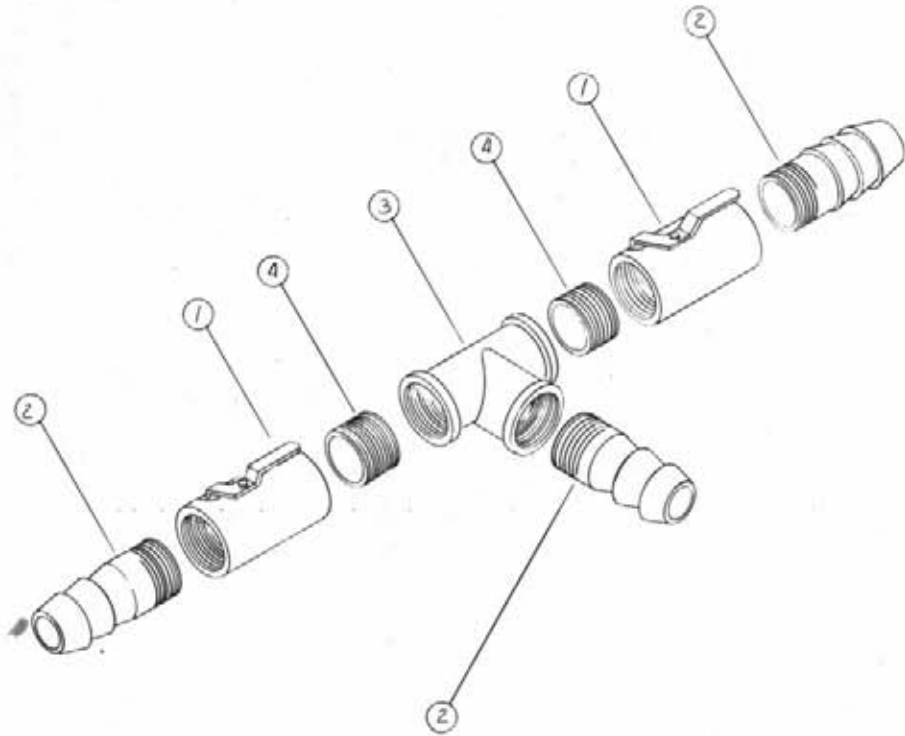
40	1	341139	TANK T. CHAN. WLD.
39	4	914004	1/2 UNF. LOCK NUT
38	3	919000	1/2 UNF. LOCK NUT
37	2	920002	3/8 FLAT WASHER
36	1	900131	3/8 UNF. x 1 1/2 HEX BOLT
35	2	900138	3/8 UNF. x 2 1/4 HEX BOLT
34	2	900139	3/8 UNF. x 2 1/2 HEX BOLT
33	2	920000	1/2 FLAT WASHER
32	0	900002	1/2 UNF. x 3/4 HEX BOLT
31	3	900004	1/2 UNF. x 1 1/4 HEX BOLT
30	1	900170	3/8 UNF. x 2 1/4 HEX BOLT
29	2	659377	LT SPRAY TANK SHIELD
28	2	659378	RT SPRAY TANK SHIELD
27	2	659373	AL. PL. TANK SHIELD DR
26	1	659368	LT LADDER RAIL
25	1	659367	RT LADDER RAIL
24	1	659366	RT FRONT SHIELD GROUND
23	1	659196	FRONT BELLY PAN
22	1	659195	FRONT BELLY PAN
21	1	601234	1/2 x 57 SHIRT GROUND BOLT
20	1	738866	1/2 CAP NUT
19	1	737856	1/2 CONNECTING HOSE
18	1	731109	NISSAN TIP
17	2	520117	CUSHION HOSE CLAMP
16	2	520069	1/2 HOSE CLAMP
15	1	763166	TANK LID CHANNEL
14	1	763164	SMALL TANK LID
13	1	763163	SMALL TANK HANDLE
12	2	763157	TANK WELDMENT
11	1	760651	TANK LID GASKET
10	1	738859	NISSAN SADDLE RING
9	2	737858	1/2 NUT
8	1	714350	3/4 NUT x 1/2 HOSE END
7	1	601231	3/4 x 2 HOSE
6	1	601216	VENT HOSE
5	2	520003	1/2 UNF. SWAG CLAMP
4	2	506203	1/4 NET AIR CAP
3	1	500007	1/2 NYLON HEX BOLT
2	1	500006	1/2 UNF. x 1 1/2 HEX BOLT
1	1	500005	3/8 NYLON SWAG NUT
ITEMS		PIN	DESCRIPTION

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS

TOLERANCES UNLESS OTHERWISE SPECIFIED

FUNCTION:	SECTION:	ANGLE:
DESCRIPTION:	SOLUTION TANKS	
DRAWN BY:	SCALE:	DATE:
CHECKED BY:	APPROVED BY:	
DATE:	5-22-80	DRAWING NUMBER:
NO. DATE, C. BY:	REVISION	SHEET: OF



1	2	507019	1/2 NPT Q. NIPPLE
3	1	507250	1/2 NPT PIPE TEE
2	3	716003	1/2 NPT 115° HOUSING
1	2	696110	CONTROLLING VALVE
QUANTITY			DESCRIPTION
			1/4

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS

TOLERANCE UNLESS OTHERWISE SPECIFIED

FRACTION DECIMALS ANGLES

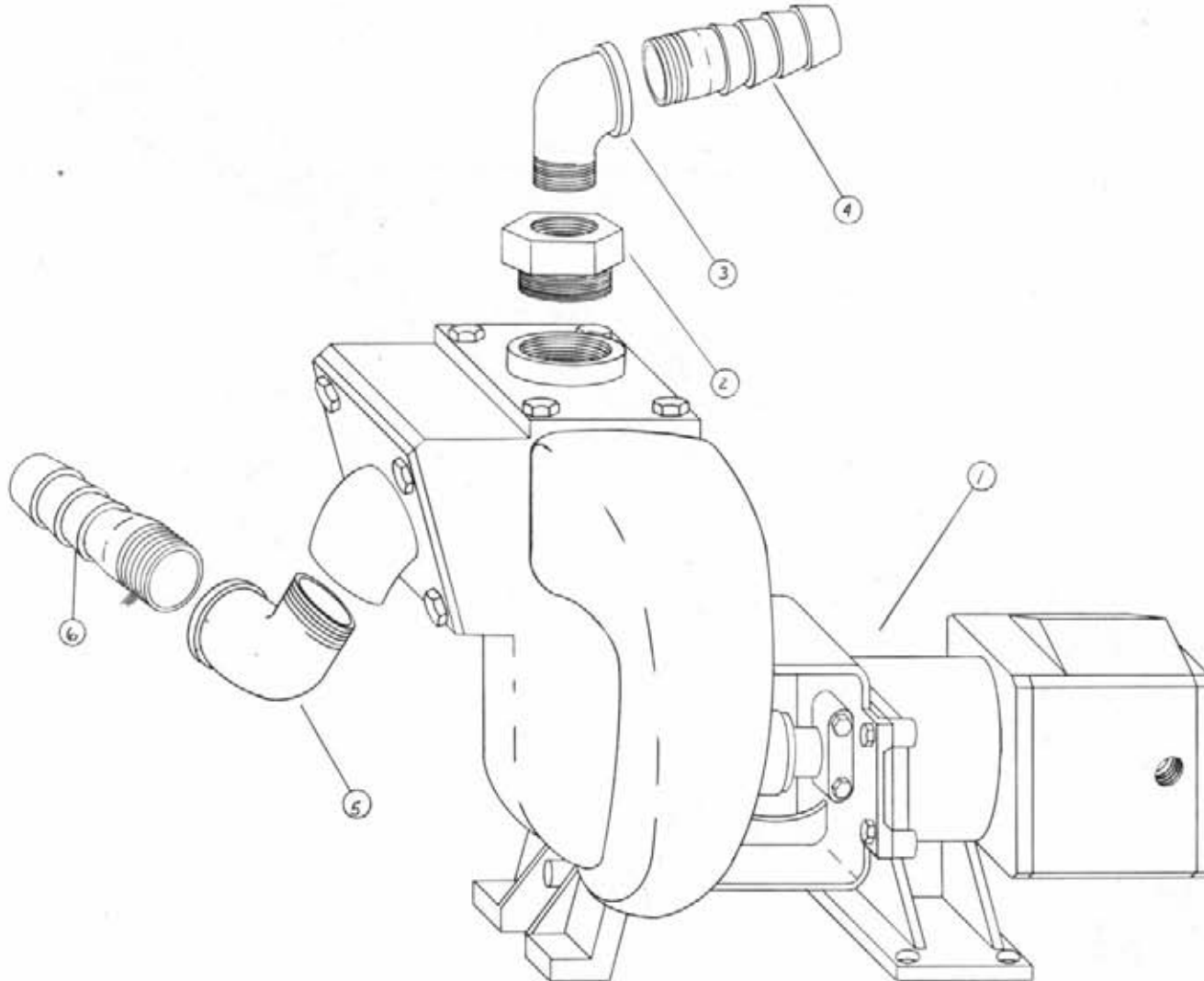
DESCRIPTION: SOLUTION TEE ASSEMBLY

DRAWN BY: L. GERMAN SCALE: NONE

DESIGNED BY: APPROVED BY: L. GERMAN

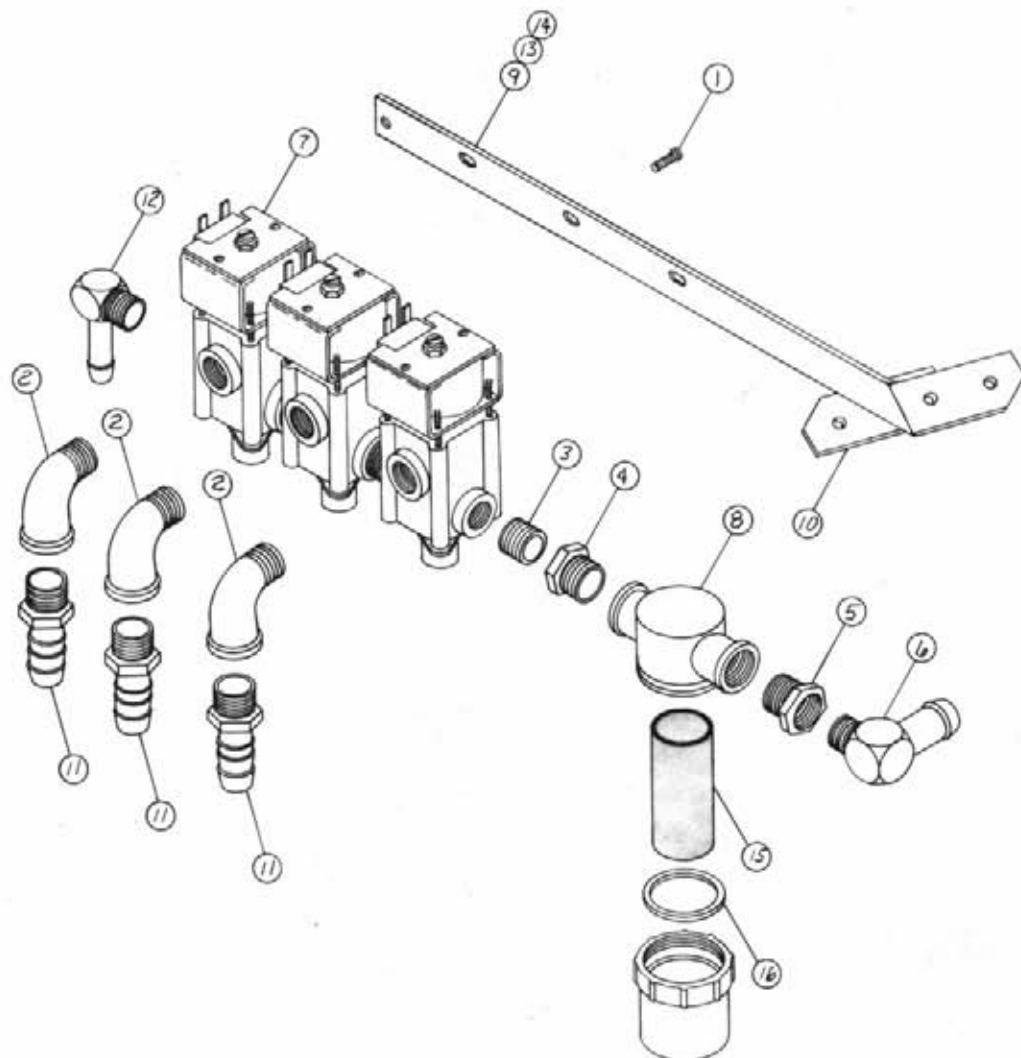
DATE: 1-16-79 DRAWING NUMBER:

NO. DATE E. C. BY REVISION SHEET OF



MS	695939	PUMP SEAL ASSEMBLY
MS	695905	FLAPPER ASSEMBLY
EL	716003	1/2" NPT X 1/2" HOSE BARB
EL	507018	1/2" NPT 90° ST. EL.
EL	714560	1/2" NPT X 1" HOSE BARB
EL	505200	1/2" NPT 90° ST. EL.
EL	507010	1/2" NPT X 1" HOSE BARB
MS	690053	SOLUTION PUMP

<p align="center">HAGIE HAGIE MANUFACTURING COMPANY CLAYTON, IOWA 50525</p>	
<p align="center">REMOVE ALL SHARP CORNERS & BURRS</p>	
<p align="center">TOLERANCES UNLESS OTHERWISE SPECIFIED</p>	
<p>FRACTION:</p>	<p>DECIMALS: ANGLES:</p>
<p>DESCRIPTION: <i>SOLUTION PUMP REPAIR</i></p>	
<p>DRAWN BY: <i>L. G. DEAN</i></p>	<p>SCALE: <i>None</i></p>
<p>CHECKED BY:</p>	<p>APPROVED BY:</p>
<p>DATE: <i>9/12/28</i></p>	<p>REVISION NUMBER:</p>
<p>NO DATE E.C. BY</p>	<p>REVISION</p>
<p>SHEET OF</p>	<p>SHEET OF</p>



16	690067	GASKET
15	690068	40 MESH GASKET
14	94000	1/4 UNF LOCK NUT
13	900006	1/4 UNF 1 1/2 HEX BOLT
12	716004	1/4 NPT 90° FLOW GMB
11	712940	1/2 NPT 1/4 FINE GMB
10	690264	KEEPER
9	690263	SOLU SOLUTIONS MT
8	690060	LINE STRAINER
7	690019	SOLUTION VALVE
6	61813B	1/4 NPT 90° FLOW GMB
5	506005	1/4 NPT RED BUSHING
4	504000	1/4 NPT RED BUSHING
3	504702	1/4 SIZE HANDLE
2	503400	5/8" STAINLESS FLANG
1	347279	1/2" DIA 1/2" GASKET
PARTS		DESCRIPTION

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS

TOLERANCES UNLESS OTHERWISE SPECIFIED

FRACTION DECIMAL ANGLES

DESCRIPTION
SOLUTION SOLUTION ASSEMBLY

DRAWN BY
T. STARKER

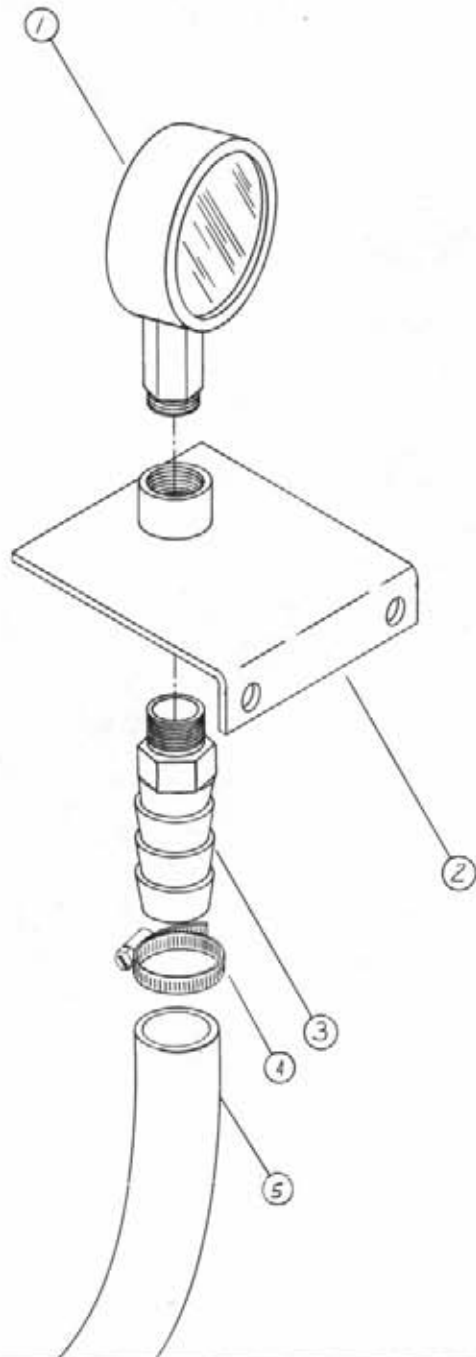
DATE
None

CHECKED BY

DATE
5-24-00

DRAWING NUMBER

NO.	DATE	E.C.	BY	REVISION



5	1	601165	HOSE - 2 x 1/2"
4	1	520070	#8 HOSE CLAMP
3	1	712320	1/4" HEX x 1/2" HOSE BUSH
2	1	695924	CAL. GAUGE M.T.
1	1	690239	PRESSURE GAUGE
QTY		750	DESCRIPTION

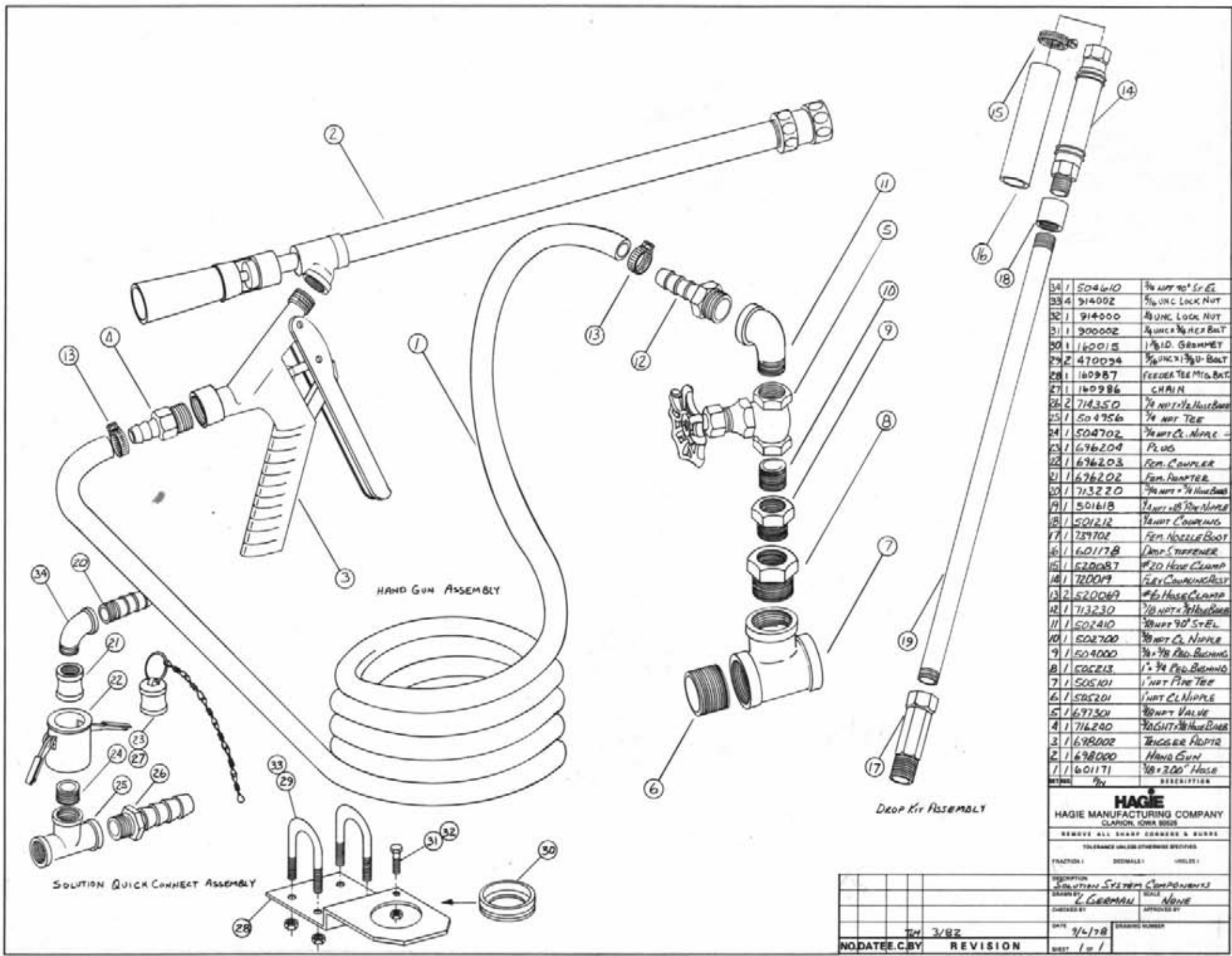
HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS

TOLERANCES UNLESS OTHERWISE SPECIFIED

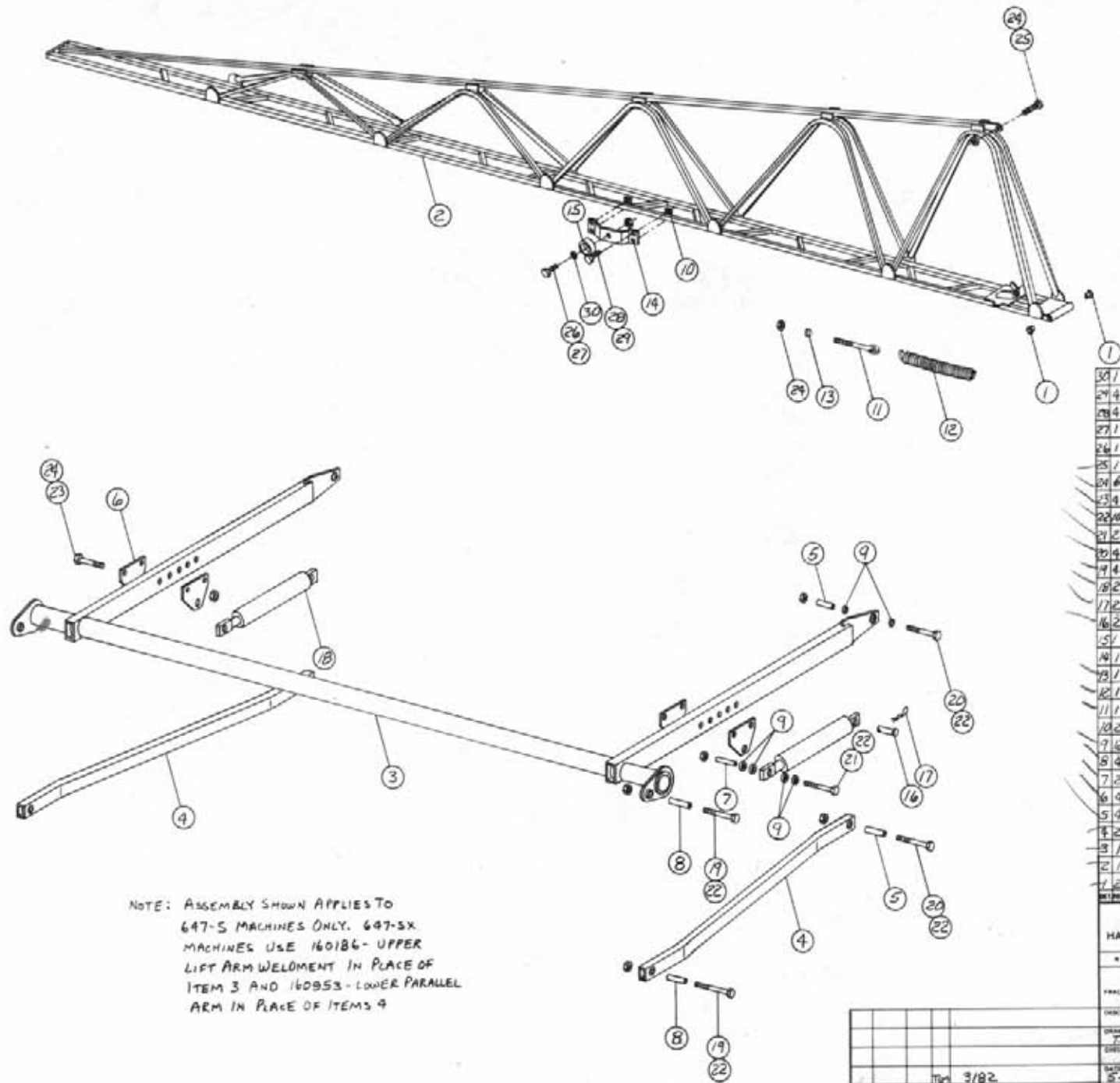
FRACTION DECIMAL ANGLES

DESCRIPTION	SOLUTION GAUGE ASSY	
DRAWN BY	L. GERMAN	SCALE
CHECKED BY	L. GERMAN	APPROVED BY
DATE	3/82	12-16-78
NO. DATE E.C. BY	REVISION	SHEET OF



34	1	504610	3/4 NPT 90° ST EL
33	4	914002	3/8 UNC LOCK NUT
32	1	914000	3/8 UNC LOCK NUT
31	1	900002	3/8 UNC X 3/8 HEX BOLT
30	1	160015	1/8 ID. GRAMMET
29	2	470024	3/8 UNC X 1 1/2 U-BOLT
28	1	160987	FEEDER TEE MFG. BOLT
27	1	160986	CHAIN
26	2	718350	3/4 NPT X 1/2 HUB BORE
25	1	504956	3/4 NPT TEE
24	1	504702	3/4 NPT CL. NIPPLE
23	1	696204	PLUG
22	1	696203	FEM. COUPLER
21	1	696202	FEM. ADAPTER
20	1	713220	3/4 NPT X 1/2 HUB BORE
19	1	501618	3/4 NPT X 1/2 IN. NIPPLE
18	1	501212	3/4 NPT COUPLING
17	1	781702	FEM. NOZZLE BOOT
16	1	601178	DEEP STIFFENER
15	1	520087	#20 HOSE CLAMP
14	1	720019	FLEX COUPLING BOOT
13	2	520069	#6 HOSE CLAMP
12	1	713230	3/4 NPT X 1/2 HUB BORE
11	1	502410	3/4 NPT 90° ST EL
10	1	502700	3/8 NPT CL. NIPPLE
9	1	504000	3/8 X 3/8 FLD. BUSHING
8	1	506213	1 1/2 X 3/4 FLD. BUSHING
7	1	505101	1 NPT FINE TEE
6	1	505201	1 NPT CL. NIPPLE
5	1	697301	3/4 NPT VALVE
4	1	716240	3/4 NPT X 1/2 HUB BORE
3	1	698002	TRIGGER ADPTER
2	1	698000	HAND GUN
1	1	601171	3/8 X 200' HOSE
QTY			DESCRIPTION

HAGIE		
HAGIE MANUFACTURING COMPANY CLAYTON, OHIO 44615		
REMOVE ALL SHARP EDGES & BURRS		
TOLERANCES UNLESS OTHERWISE SPECIFIED		
FRACTION	DECIMALS	HOLE SIZE
DESCRIPTION		
SOLUTION SYSTEM COMPONENTS		
DESIGNED BY	L. GERMAN	
CHECKED BY	NONE	
DATE	3/82	REVISION
NO. DATE E.C. BY	REVISION	1 = 1



NOTE: ASSEMBLY SHOWN APPLIES TO 647-S MACHINES ONLY. 647-SX MACHINES USE 160186- UPPER LIFT ARM WELDMENT IN PLACE OF ITEM 3 AND 160553- LOWER PARALLEL ARM IN PLACE OF ITEMS 4

30	920002	3/8 SAE FLAT WASHER
29	914002	3/8 UNC LOCK NUT
28	900069	3/8 UNC x 2 HEX BOLT
27	914004	3/8 UNC LOCK NUT
26	900124	3/8 UNC x 1 HEX BOLT
25	900267	1/2 UNC x 2 HEX BOLT
24	914008	1/2 UNC LOCK NUT
23	900272	1/2 UNC x 3/8 HEX BOLT
22	914010	5/8 UNC LOCK NUT
21	900340	5/8 UNC x 3/8 HEX BOLT
20	900338	5/8 UNC x 3 HEX BOLT
19	900342	5/8 UNC x 4 HEX BOLT
18	620496	LIFT CYLINDER
17	611016	HAIR PIN
16	432278	PICKER PIN
15	470098	RUBBER BUMPER
14	160991	BUMPER MOUNT
13	160981	EYEBOLT SWIVEL
12	160980	SPRING
11	160979	EYE BOLT
10	160939	NOZZLE MT KEEPER
9	160924	BUSHING x 4 LONG
8	160923	BUSHING x 2 1/2 LONG
7	160922	CYL MT BUSHING
6	160920	LIFT CYL MOUNT
5	160533	ARM SLEEVE
4	160182	LOWER LIFTARM
3	160180	UPPER LIFTARM
2	160170	OUTER BOOM
1	127502	NYON BEARING

HAGIE
HAGIE MANUFACTURING COMPANY
CLAYTON, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS

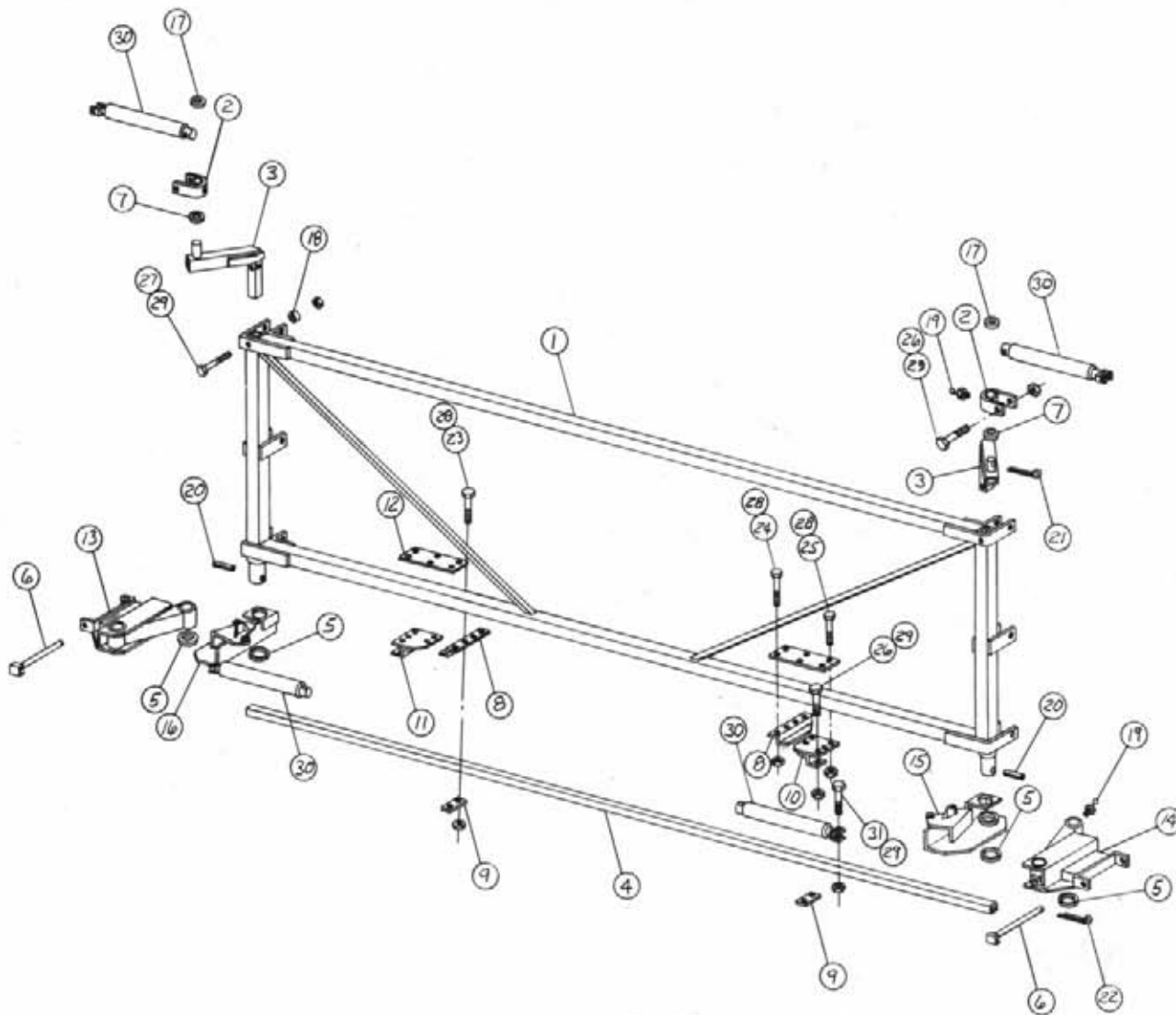
TOLEANCES UNLESS OTHERWISE SPECIFIED

FRACTION	DECIMALS	ANGLES

DESCRIPTION: BOOM & LIFT ARMS
DRAWN BY: T. MARKER
CHECKED BY: [Signature]
DATE: 3/82
SCALE: None

NO.	DATE	BY	REVISION
1	5-27-80		

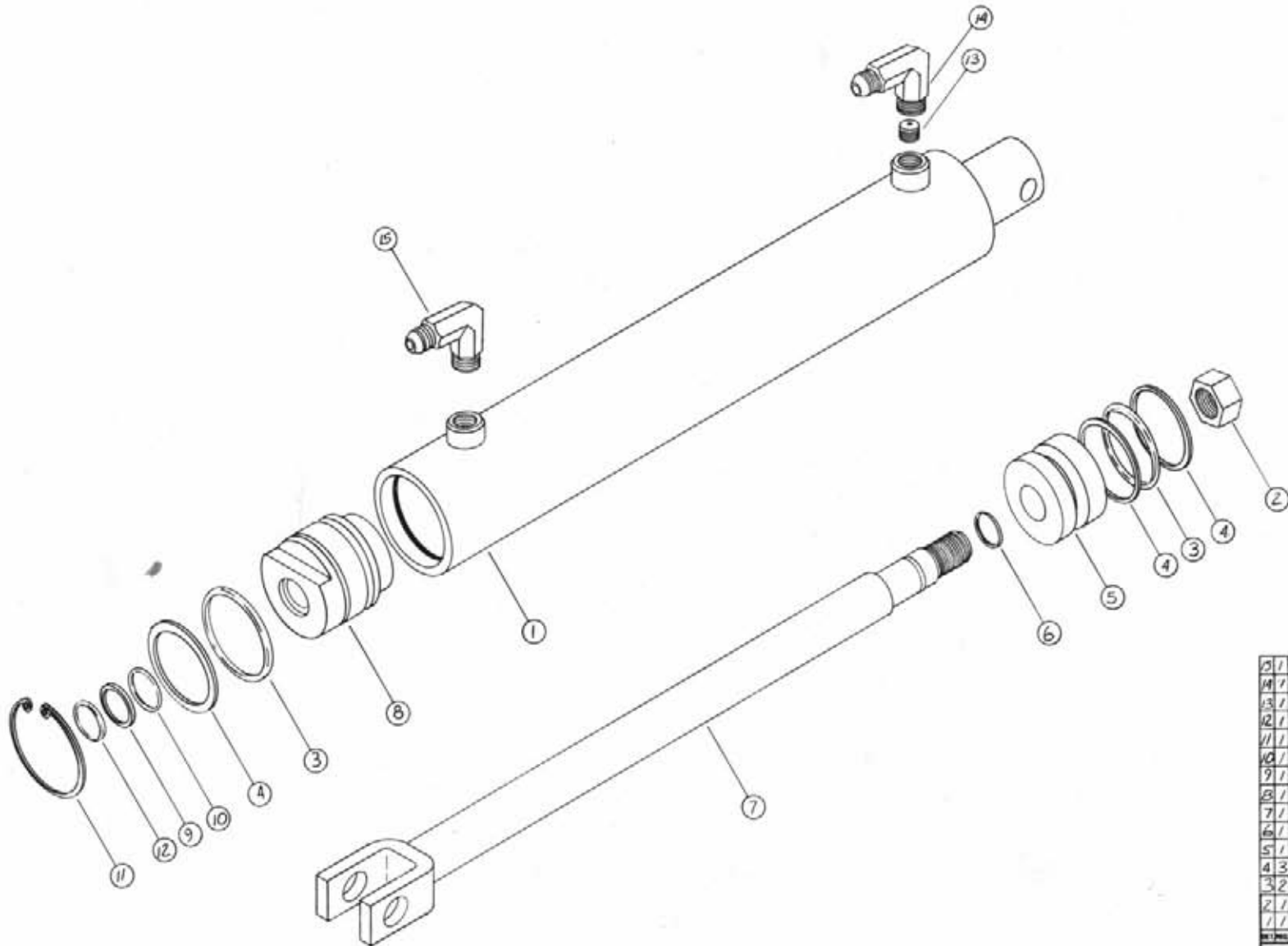
ISSUED BY: [Signature]



31	2	900267	2 UNC x 2 HX BOLT
30	1	620056	FOLD LEVEL C/L
29	8	714008	1/2 UNC LOCK NUT
28	16	914002	5/16 UNC LOCK NUT
27	2	900272	1/2 UNC x 3/4 HX BOLT
26	4	900268	1/2 UNC x 2 1/4 HX BOLT
25	8	900072	5/16 UNC x 3 HX BOLT
24	4	900071	5/16 UNC x 2 1/4 HX BOLT
23	4	900068	5/16 UNC x 1 1/2 HX BOLT
22	2	475009	1/4 x 1/4 CUTTER PIN
21	2	475003	3/4 x 1 CUTTER PIN
20	2	473909	SPIRAL PIN
19	16	971005	GAPING ZERR
18	1	390513	BULNING
17	1	200004	WASHER
16	1	160976	LT BEAR-AWAY PL
15	1	160969	LT BEAR-AWAY PL
14	1	160966	LT BEAR-AWAY
13	1	160956	RT BEAR-AWAY
12	1	160945	FOLD C/L PL KEEPER
11	1	160944	RT FOLD C/L MOUNT
10	1	160941	LT FOLD C/L MOUNT
9	2	160939	KEEPER
8	2	160936	NOZZLE TUBE HANGER
7	2	160925	BULNING
6	2	160777	HINGE PIN
5	4	160732	WASHER
4	1	160185	NOZZLE M/TG TUBE
3	2	160147	LEVEL C/L MOUNT
2	2	160144	LEVEL C/L PIVOT
1	1	160135	TRANSOM W/O

DESCRIPTION	
HAGIE	
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50535	
REMOVE ALL SHARP CORNERS & BURRS	
TOLERANCES UNLESS OTHERWISE SPECIFIED	
FRACTION	DIMENSIONAL
DECIMALS	ANGLES
DESCRIPTION TRANSOM ASSEMBLY	
DESIGNED BY MARKER	SCALE NONE
CHECKED BY	APPROVED BY
DATE 5-20-80	DRAWING NUMBER

NO.	DATE	BY	REVISION



15	1	611122	TUBE WELDMENT
14	1	440338	RESTRICTOR ELBOW
13	1	614366	RESTRICTOR O-RING
12	1	629003	ROD WIPER
11	1	629505	SNAP RING
10	1	B70214	O-RING
9	1	B90214	BACK-UP RING
8	1	620082	GLAND
7	1	620093	SNAP WELDMENT
6	1	B70113	O-RING
5	1	620081	PISTON
4	3	B90326	BACK-UP WASHER
3	2	B70326	O-RING
2	1	472297	WASHER LOCK NUT
1	1	620053	TUBE WELDMENT

REVISION No DESCRIPTION

HAGIE
HAGIE MANUFACTURING COMPANY
 CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS
 TOLERANCE UNLESS OTHERWISE SPECIFIED

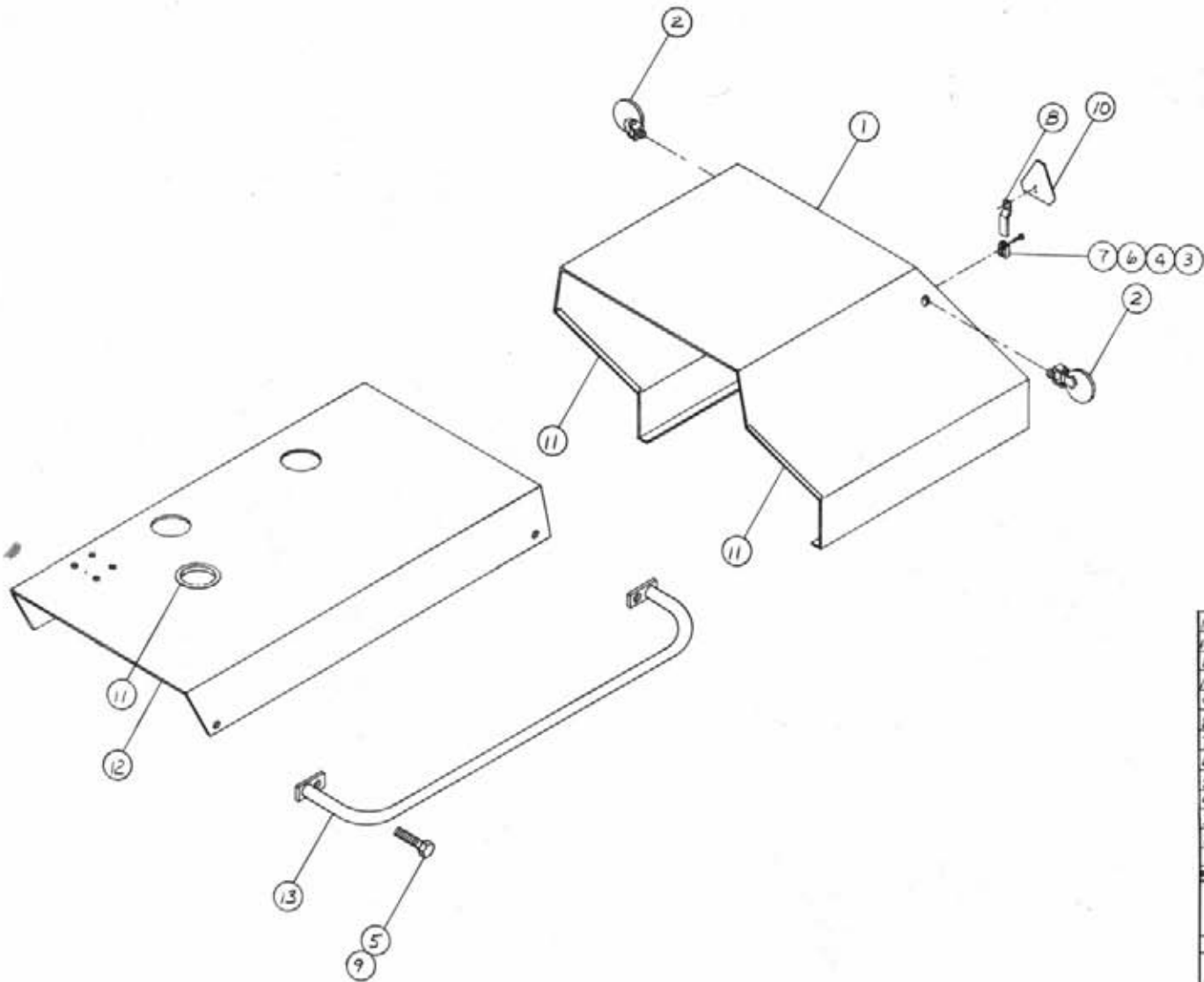
FRACTION - DECIMALS - ANGLES -

DESCRIPTION
 LEVEL 1 FOLD CYLINDER ASSY

DRAWN BY: L. GERMAN SCALE: NONE
 CHECKED BY: APPROVED BY:

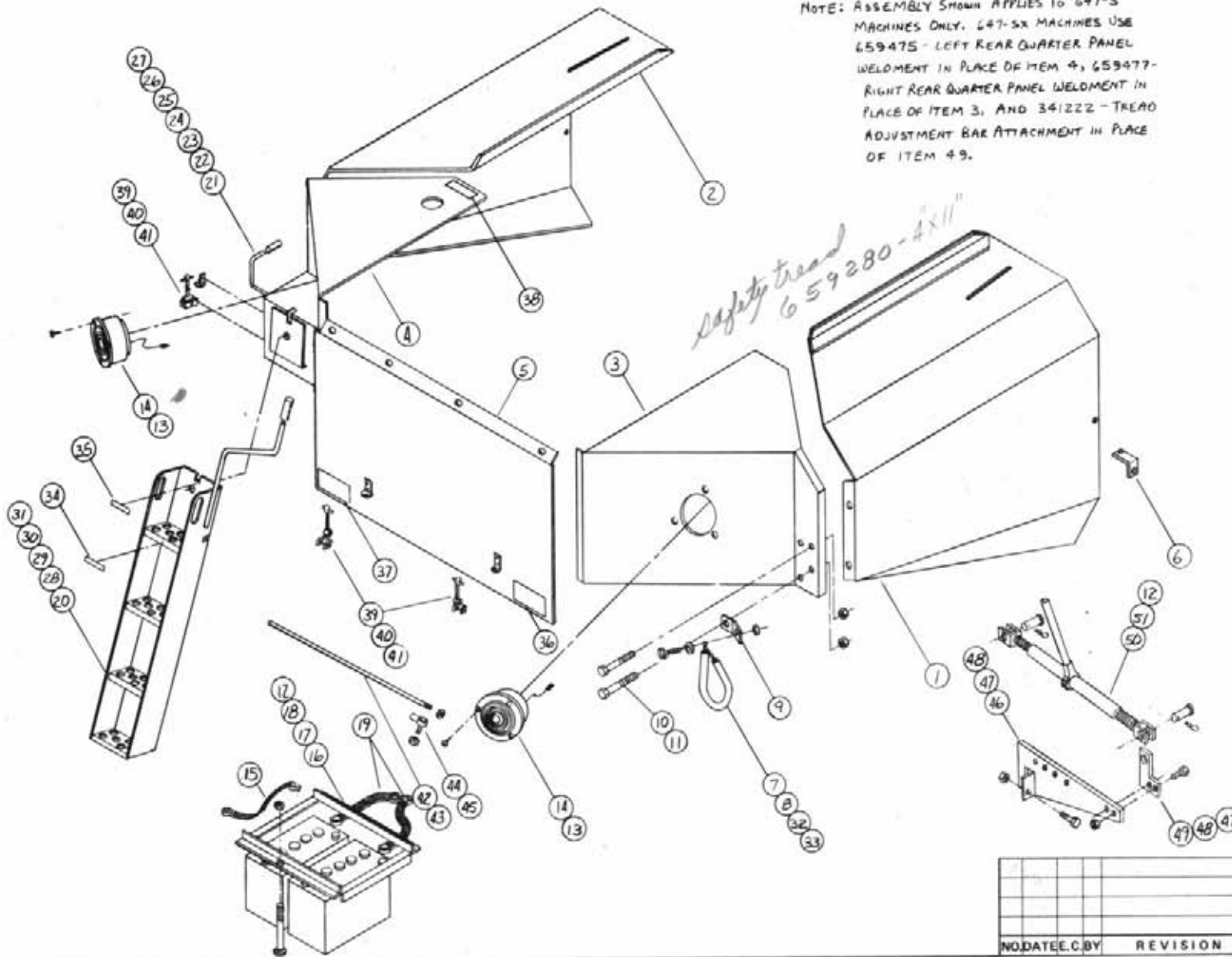
DATE: 9-19-78 (DRAWING NUMBER)

NO DATE	E.C. BY	REVISION	SHEET	OF



13	1	659378	Rt. End Hood Assembly
12	1	659562	Engine Hood Lid
11	1	193016	Strip Term - 49"
10	1	972249	SMV SIGN
9	2	914000	1/4" DIA LOCK W/RT
8	1	972250	SMV SANDW
7	2	920001	5/16" DIA LOCK W/RT
6	2	919002	5/16" DIA LOCK W/RT
5	2	900002	1/4" DIA x 3/4" BOLT
4	2	901064	5/16" x 3/4" CREE BOLT
3	1	972251	MTM SOCKET
2	2	291506	HEADLIGHT
1	1	657557	ENG COVER LID

<p>HAGIE HAGIE MANUFACTURING COMPANY CLARION, IOWA 50535</p>		
<p>REMOVE ALL SHARP CORNERS & BURRS</p>		
<p>TOLERANCE UNLESS OTHERWISE SPECIFIED</p>		
FRACTION:	DECIMALS:	ANGLES:
DESCRIPTION:	SCALE:	DATE:
DESIGNED BY:	CHECKED BY:	APPROVED BY:
DATE:	3-9-92	DRAWING NUMBER:
NO DATE C.B.Y.	REVISION	SHEET OF



NOTE: ASSEMBLY SHOWN APPLIES TO 647-S MACHINES ONLY. 647-SX MACHINES USE 659475 - LEFT REAR QUARTER PANEL WELDMENT IN PLACE OF ITEM 4, 659477 - RIGHT REAR QUARTER PANEL WELDMENT IN PLACE OF ITEM 3, AND 341222 - TREAD ADJUSTMENT BAR ATTACHMENT IN PLACE OF ITEM 49.

51	2	412278	HOOD PIN
50	1	341068	ROTARY JACK
49	1	341067	LEVER HO. EXT.
48	3	910008	ELONG HEX NUT
47	3	900267	1/2" UNF #2 BOLT
46	1	341069	TREAD ADJ. BRACKET
45	1	914001	HOOD LOCK NUT
44	1	473718	HOOD LOCK NUT
43	1	910001	1/2" UNF HEX NUT
42	1	341002	HOOD PROP
41	3	659247	HOOD HINGE
40	3	656777	HOOD BKT
39	3	656799	HAND ANCHOR BKT
38	1	650954	DECAL - DIESEL
37	1	650982	DECAL - ELECTRICAL
36	1	650989	DECAL - SHOULDER
35	1	650816	DECAL - WATER TYP
34	1	650815	DECAL - NO BONES
33	2	920002	3/8" FLAT WASHER
32	2	914004	3/8" UNF LOCK NUT
31	1	249002	HANDLE GRIP
30	1	471005	3/4" DIA 1/2" UNF ZEAR
29	1	914014	3/8" UNF LOCK NUT
28	1	900474	3/8" DIA #4 BOLT
27	1	470038	CUTTER PIN #1 1/4"
26	1	470045	CUTTER PIN #1 3/4"
25	1	473728	3/8" #1 BALL PIN
24	1	482005	EXTENSION SPRING
23	1	249003	VINYL HANDLE GRIP
22	1	341064	LATCH HANDLE
21	1	341061	LATCH LATCH WELD
20	1	341054	LATCH WELD
19	2	290111	1/2" DIA STRAP
18	2	901149	3/8" DIA #8 CURVED BOLT
17	1	291041	BATTERY HOLD-DOWN
16	2	290013	BATTERY 12V
15	1	290054	12" JUMPER CABLE
14	2	291040	TAIL LIGHT ASSY
13	6	472352	#3 TEK S-CREW
12	2	611016	HAIR PIN
11	2	914008	3/8" UNF LOCK NUT
10	2	900264	1/2" UNF #1 1/4 HEX BOLT
9	2	160671	CABLE CARRIER
8	2	920129	3/8" UNF #1 HEX BOLT
7	2	440480	SCREW CABLE ASSEMBLY
6	2	659174	DOOR HINGE WELD
5	1	659177	DOOR ENGINE DOOR
4	1	659248	L. QUARTER PANEL
3	1	659127	R. QUARTER PANEL
2	1	659349	L. ACCESS DOOR WELD
1	1	659341	R. ACCESS DOOR WELD

HAGIE
HAGIE MANUFACTURING COMPANY
CLARION, IOWA 50525

REMOVE ALL SHARP CORNERS & BURRS
TOLERANCE UNLESS OTHERWISE SPECIFIED

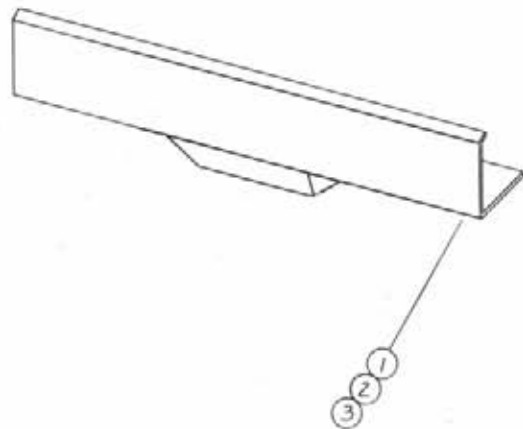
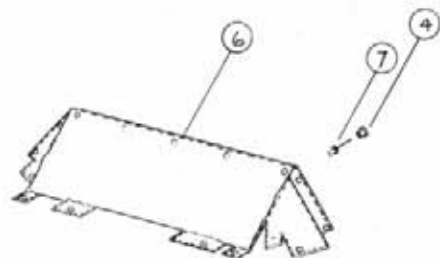
FRACTION: DECIMALS: HUNDRETHS:

DESCRIPTION: REAR SHEET METAL / COMPONENTS

DRAWN BY: L. GERMAN CHECKED BY: HAGIE

DATE: 12-7-78 APPROVED BY: (L. GERMAN)

NO. DATE E.C. BY REVISION

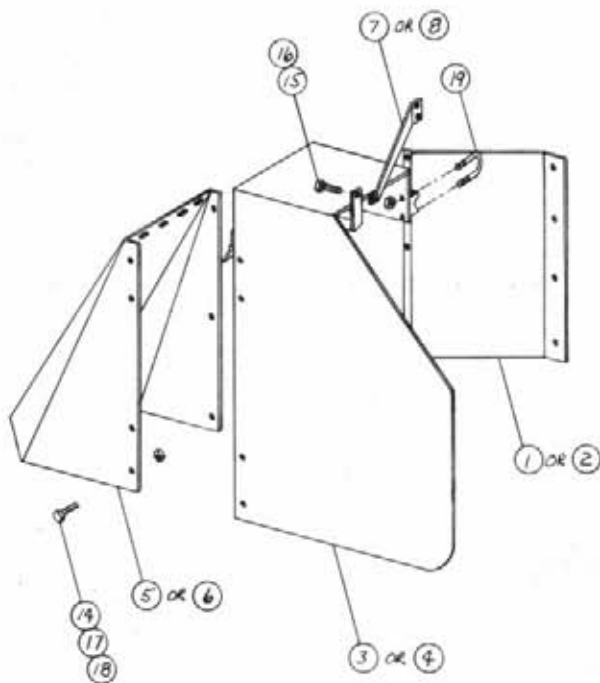
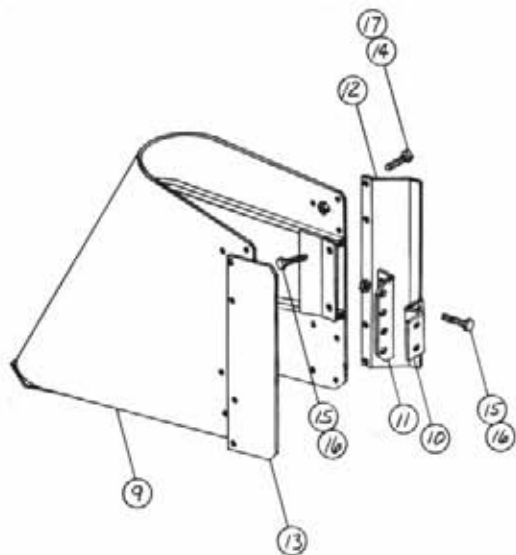


659537 RH FRT NOSE COVER EXT
 659538 LH FRT NOSE COVER EXT



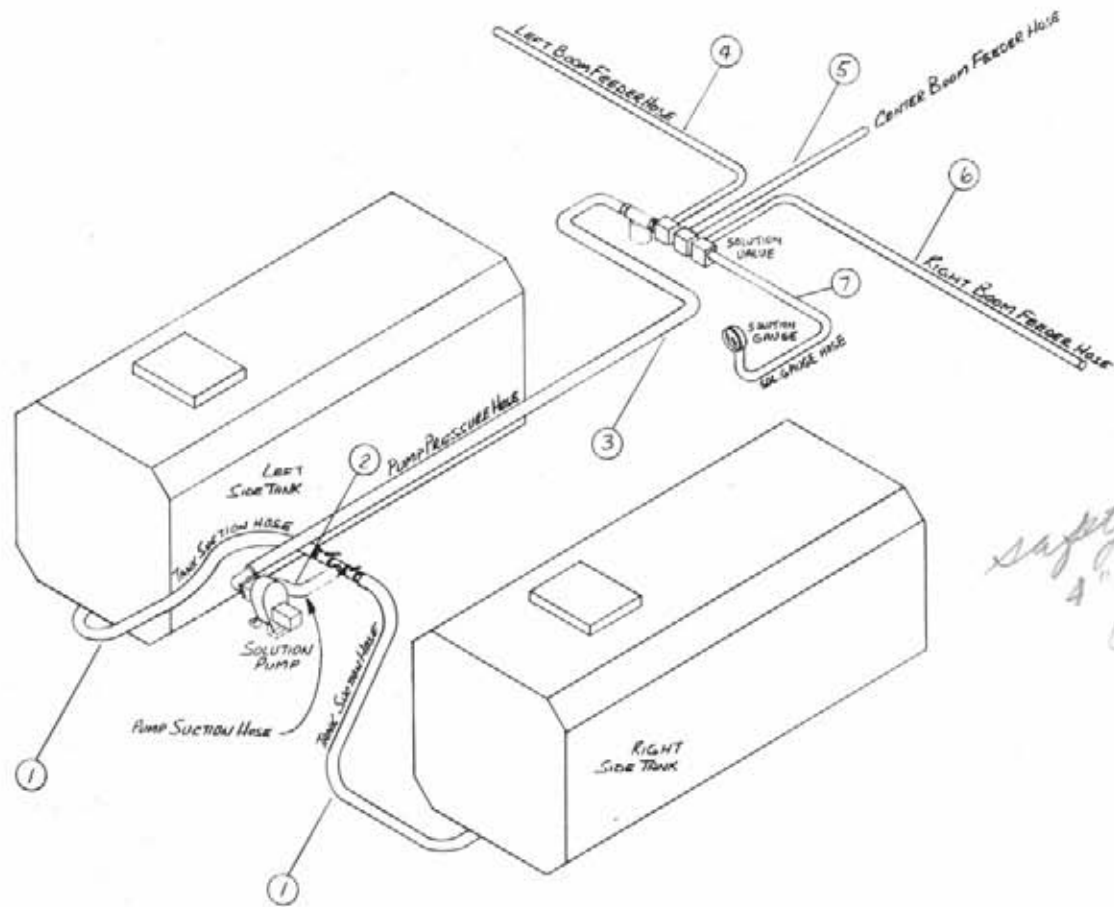
7	15485054	Rivet 1/8 x 1/2
6	1659258	CAR NOSE BOOT
5	341032	FRONT TIE DOWN
4	15413930	SNAP - MALE HALF
3	2900128	1/8 INCH x 1/4 BOLT
2	2920002	1/8 INCH FLAT WASH
1	659356	NOSE COVER L&R

SYMBOL	QTY	DESCRIPTION
HAGIE		
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCES UNLESS OTHERWISE SPECIFIED		
FRAC TION	DECIMALS	ANGLES
DESCRIPTION	FRONT END ACCESSORIES	
DRAWN BY	L. GERMAN	SCALE 1/2" = 1"
CHECKED BY		APPROVED BY
DATE	1-10-79	DRAWING NUMBER
NO. DATE E.C. BY	REVISION	SHEET OF



19	2	472195	U-BOLT Square TAGS
18	11	920000	1/4 UNC FLAT WASHER
17	9	919000	3/8 UNC LOCK NUT
16	5	919008	1/2 UNC LOCK NUT
15	5	900265	1/2 UNC x 1 1/2 HEX BOLT
14	14	900002	1/2 UNC x 3/4 HEX BOLT
13	1	662132	INSIDE REAR SHIRT
12	1	662131	OUTSIDE REAR SHIRT
11	1	662130	COMPRESSOR MT BRACKET
10	1	662129	FR COMPRESSOR MT BR
9	1	662122	FR COMPRESSOR WIND
8	1	662119	LT REAR COMPRESSOR MT
7	1	662118	RT REAR COMPRESSOR MT
6	1	662109	LT COMPRESSOR WIND
5	1	662105	RT COMPRESSOR WIND
4	1	662085	FR COMPRESSOR WIND
3	1	662076	LT COMPRESSOR WIND
2	1	662053	FR REAR TRUSS COMPRESS
1	1	662051	LT REAR TRUSS COMPRESS

ITEM NO.		DESCRIPTION
HAGIE		
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCES UNLESS OTHERWISE SPECIFIED		
FINISH:	SECOND:	ANGLE:
DESCRIPTION FRONT & REAR COMPRESSOR ASSEMBLY		
DESIGNED BY T. MARKER	SCALE NONE	
CHECKED BY	APPROVED BY	
DATE 5-21-80	DRAWING NUMBER	
NO. DATE E.C. BY	REVISION	SHEET OF



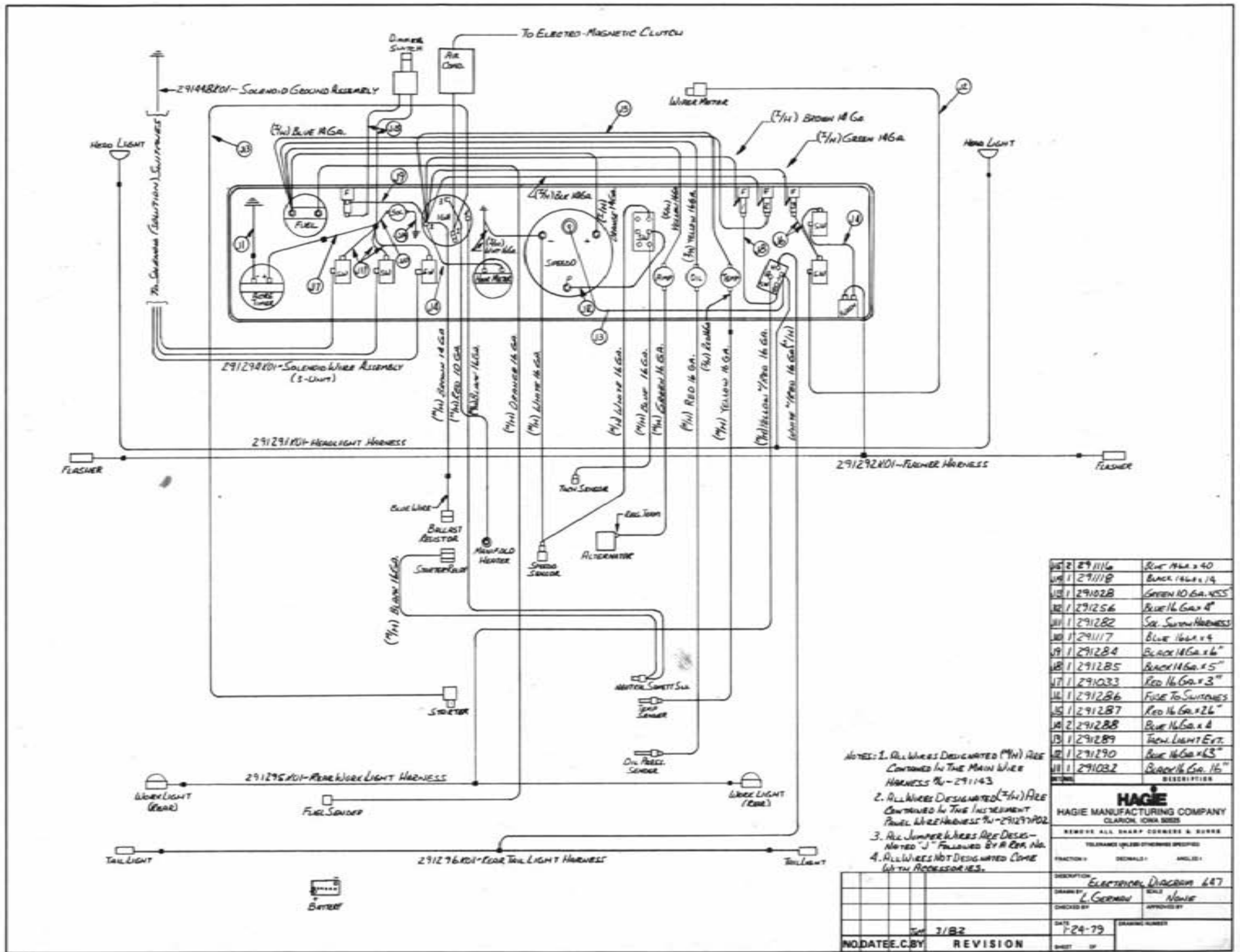
Safety Tread
4" x 21"
659279

NOTE:

1. FOR MACHINES EQUIPPED WITH THE BOTTOM FILL OPTION, THE FOLLOWING ADDITIONAL HOSE IS REQUIRED BETWEEN THE SOLUTION TEE ASSEMBLY AND THE BOTTOM FILL CONNECTOR; P/N - 601189 - HOSE - 2" x 21"
2. ASSEMBLY SHOWN APPLIES TO 647-S MACHINES ONLY. 647-SX MACHINES USE 601240 - HOSE - 1 1/2" x 84" IN PLACE OF ITEM 1.

7	1	601165	HOSE - 1/2" x 144"
6	1	601177	HOSE - 3/4" x 242"
5	1	601242	HOSE - 3/4" x 90"
4	1	601241	HOSE - 3/4" x 348"
3	1	601213	HOSE - 1" x 318"
2	1	601217	HOSE - 1 1/2" x 24"
1	2	601230	HOSE - 1 1/2" x 66"

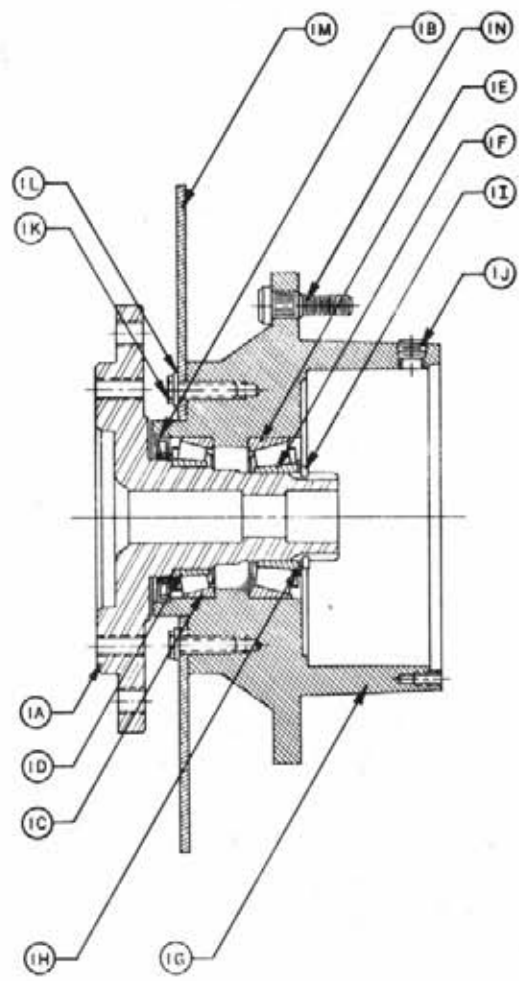
HAGIE		
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525		
REMOVE ALL SHARP CORNERS & BURRS		
TOLERANCES UNLESS OTHERWISE SPECIFIED		
FRACTION	DECIMALS	ANGLES
DESCRIPTION	QUANTITY	REVISION
SOLUTION TEE ASSEMBLY - STANDARD		
DESIGNED BY	SCALE	
L. GEORGIN	NONE	
CHECKED BY	APPROVED	
	L. GEORGIN	
DATE	DRAWING NUMBER	
1-25-79		
NO. DATE E.C. BY	REVISION	SHEET OF



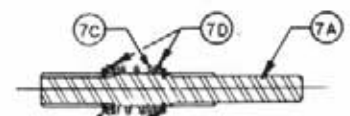
NOTES: 1. ALL WIRES DESIGNATED (M) ARE CONTAINED IN THE MAIN WIRE HARNESS #W-291143
 2. ALL WIRES DESIGNATED (7/16) ARE CONTAINED IN THE INSTRUMENT PANEL WIRE HARNESS #W-29129P02
 3. ALL JUMPER WIRES ARE DESIGNATED "J" FOLLOWED BY A CIR. NO.
 4. ALL WIRES NOT DESIGNATED COME WITH ACCESSORIES.

28	291116	BLK 14GA x 40
29	291118	BLK 16GA x 19
30	291028	GREEN 10 GA. 455
31	291256	BLUE 16 GA. 4"
32	291282	SK. SW. HARNESS
33	291117	BLUE 16GA x 4
34	291284	BLACK 16GA x 6"
35	291285	BLACK 16GA x 5"
36	291023	RED 16 GA. x 3"
37	291286	FUSE TO SWITCHES
38	291287	RED 16 GA. x 26"
39	291288	BLUE 16 GA. x 6"
40	291289	IGN. LIGHT EXT.
41	291290	BLUE 16 GA. x 3"
42	291032	BLACK 16 GA. 16"

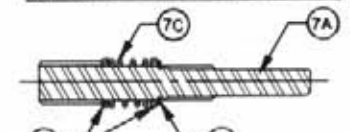
DESCRIPTION	
ELECTRICAL DIAGRAM 447	
DRAWN BY	SCALE
L. GORDON	None
CHECKED BY	APPROVED BY
DATE	DRAWING NUMBER
7-24-79	
NO. DATE E.C. BY	REVISION



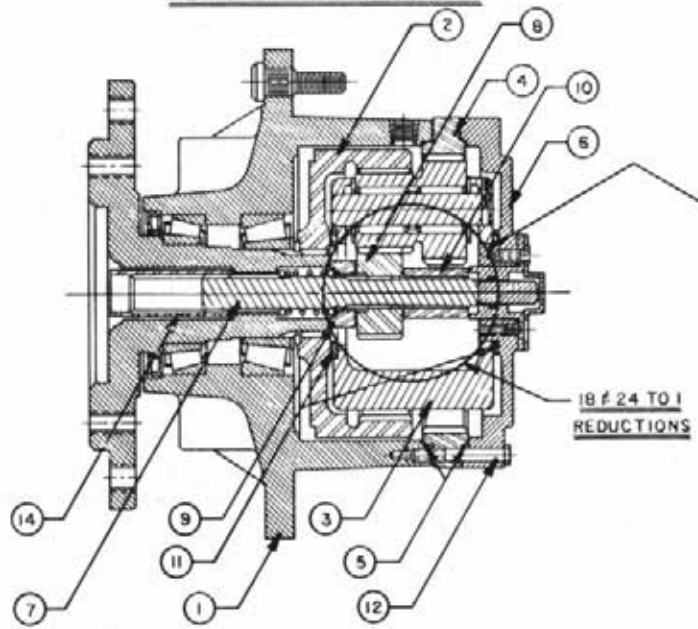
HUB-SPINDLE SUBASSEMBLY



WIA INPUT SHAFT SUBASSEMBLY



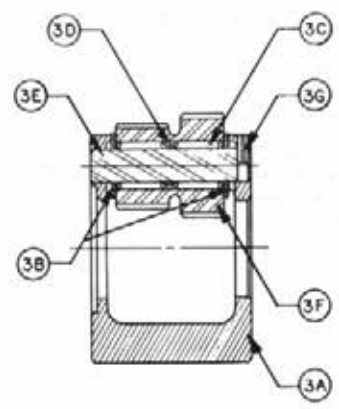
WIB INPUT SHAFT SUBASSEMBLY



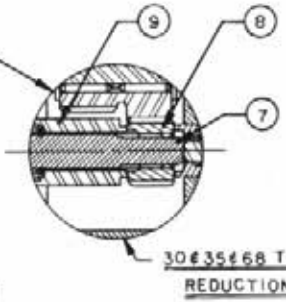
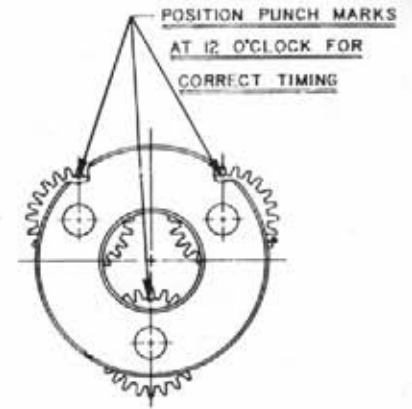
COMPLETE ASSEMBLY



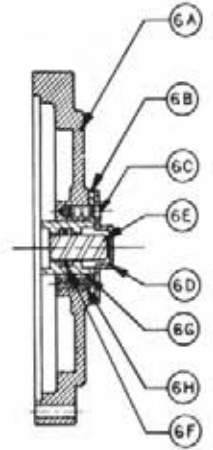
VIEW OF SHOULDER BOLT



CARRIER SUBASSEMBLY



30E35E68 TO 1 REDUCTIONS



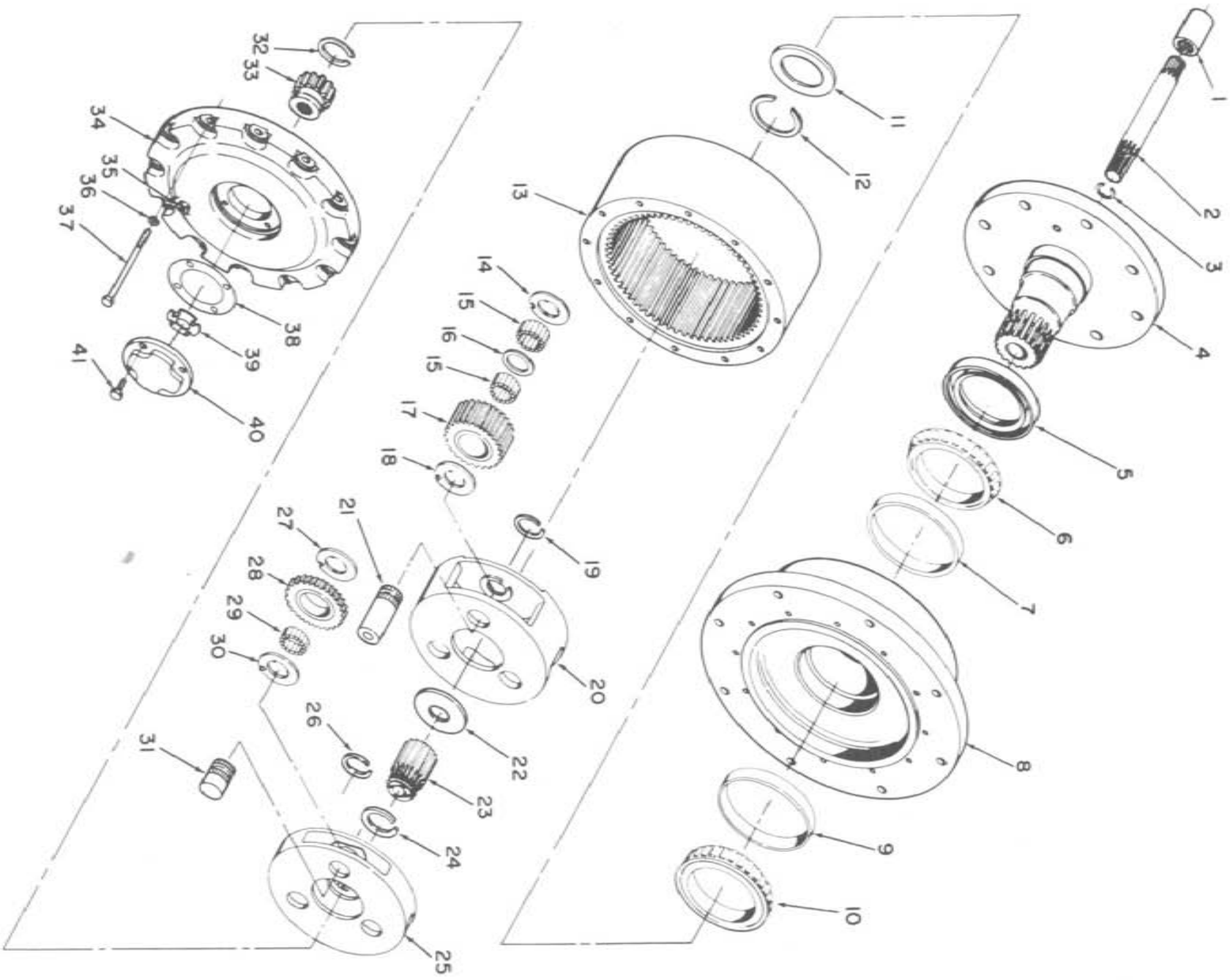
COVER SUBASSEMBLY

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DRAFTSMAN Beck		DATE 10-8-73	FAIRFIELD MFG. Co., INC. LAFAYETTE, IND. 47905	
CHECKER			TITLE SERVICE LITERATURE	
PROJECT ENG.			SCALE: DRAWING NO.	
RELEASED			WIA & WIB	

WHEEL DRIVE ASSEMBLY - 437617

<u>ITEM</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1			Hub-spindle sub-assembly
	1A	1	Spindle
	1B	1	Seal
	1C	1	Brg. cup
	1D	1	Brg. cone
	1E	1	Brg. cup
	1F	1	Brg. cone
	1G	1	Hub
	1H	1	Spacer
	1I	1	Retaining ring
	1J	2	Pipe plug
	1N	9	Stud
2	610148	1	Internal gear
3	610912	1	Carrier assembly
4	610929	1	Ring gear
5	610903	2	'O' ring
6	610157	1	Cover assembly
	6A	1	Cover
	6B	1	Cover cap
	6C	1	Bolt
	6D	4	Disconnect cap
	6E	1	Disconnect rod
	6F	1	'O' ring
	6G	1	'O' ring
	6H	1	Pipe plug
	6J	1	ID plate
7			Input shaft assembly
	7A	1	Input shaft
	7B	1	Retaining ring
	7C	2	Spring
	7D	1	Spacer
8	610919	1	Input gear
9	610920	1	Thrust spacer
10	610921	1	Thrust spacer
11	610922	2	Thrust washer
12	610930	12	Bolt
13	610923	4	Shoulder bolt
14	610931	1	Coupling
16	610049	1	Flat washer
17	610160	1	Retaining ring



Power Wheel Assembly - 611030

INDEX NO.	PART NUMBER	PART NAME	QUANTITY
1	610165	Internal Coupling	1
2	610166	Input Shaft Assembly	1
3	610167	Retaining Ring	1
4	610168	Spindle	1
5	129012	Oil Seal	1
6	610169	Bearing Cone	1
7	610170	Bearing Cup	1
8	610171	Hub	1
9	610172	Bearing Cup	1
10	610173	Bearing Cone	1
11	610234	Thrust Washer	1
12	610174	Retaining Ring	1
	610175	Retaining Ring	Use As Required
	610176	Retaining Ring	
13	610202	Ring Gear	1
14	610203	Thrust Washer	3
15	610996	Needle Roller	3
16	610204	Separator	96
17	610997	Planet Gear	3
18	610203	Thrust Washer	3
19	610235	Retaining Ring	3
20	610237	Secondary Carrier	1
21	610238	Pinion Shaft	3
22	610239	Thrust Washer	1
23	610210	Large Sun Gear	1
24	610211	Retaining Ring	1
25	610241	Primary Carrier	1
26	610235	Retaining Ring	1
27	610203	Thrust Washer	3
28	610215	Planet Gear	3
29	610216	Needle Roller	48
30	610203	Thrust Washer	3
31	610242	Pinion Shaft	3
32	610243	Retaining Ring	1
33	611003	Small Sun Gear	1
34	610218	Large Cover	1
35	610244	Drain & Filler Plug	1
36	610206	3/8 Lock Washer	12
37	610220	3/8-16x5½ Hex Head Bolt	12
38	610221	Gasket	1
39	610995	Thrust Washer	1
40	610935	Small Cover	1
41	610245	5/16-18x3/4 Hex Head Bolt	4
	610240	Primary Carrier Assembly	
	610236	Secondary Carrier Assembly	

NOTICE

The following three pages contain decals for the
1982 647-S and 647-SX.

These decals can be obtained at no cost and should
be used whenever your machine is repainted or
when the decals become worn, weathered, or faded.

Special attention should be paid to decals involving
personal safety. They have been attached for your
protection.

KEEP THEM IN PLACE.

Contact: Hagie Manufacturing Co.
Box 273, Clarion, Iowa 50525

647-S & 647-SX DECALS

P/N	Qty.	Description	Location
650814	1	Parking Brake Decal	Near Parking Brake Lever
650815	3	No Passengers Decal	On right & left sides of roof, above doors, on ladder
650816	1	Watch Step Decal	On ladder
650818	1	Engine Fuel Decal	Near fuel tank filler neck
650829	2	Chemicals Decal	On solution tank lids
650846	2	6" Hagie Decal	On sides of solution tanks
650855	2	6" 647-S Decal	On sides of top engine cover
650858	1	Do Not Use Ether Decal	On sheet metal near air cleaner
650954	1	Diesel Decal	Near fuel tank filler neck
650978	2	Sight Gauge Decal	On sight gauge mounts
650982	1	Electrical System Decal	On rear engine access panel
650985	4	Wheel Bolt Torque Decal	On each wheel rim
650989	3	Shields Decal	On right & left side of top engine cover, on rear access panel
650822	1	Solution Pump Seals Decal	Near solution control levers
650873	1	Indicator Light & Switch Decal	On instrument panel
650939	1	Speedometer & Tach Decal	On instrument panel
650967	1	Throttle Decal	Near throttle lever
650968	1	Hydrostatic Drive Decal	Near hydrostatic control lever
650969	1	Spray Pressure Decal	Near solution control lever
650970	1	Agitator Decal	Near agitator control lever
650971	1	Four Wheel Drive Decal	Near four wheel drive control lever
650972	1	Boom Position Decal	On 2-3 spool valve mount
650973	1	Boom Spray Decal	On instrument panel
650974	1	Caution Combination Decal	On instrument panel
650977	1	Flasher Decal	On instrument panel
650831	1	Emergency Stop Decal	On lower left corner of front windshield
650893	1	Diesel Start Decal	On instrument panel
650935	1	Speedometer Decal	On speedometer gauge
650863	1	Acre Timer Decal	On instrument panel
650862	2	"X" Decal	Behind 647-S Decal

Decal Package 650864 includes all decals listed above.

647-S

650855- 647-S DECAL

X

650862- "X" DECAL

DIESEL

650954- DIESEL DECAL

ALT OIL TEMP LIGHTS WIPER

650873- INDICATOR LIGHT & SWITCH DECAL

L FOLD R L LEVEL R L LIFT R

650972- BOOM CONTROL DECAL

OUT FOUR WHEEL DRIVE IN

650971- FOUR WHEEL DRIVE DECAL

HIGH SPRAY PRESSURE OFF

650969- SPRAY PRESSURE DECAL

FAST AGITATOR STOP

650970- AGITATOR DECAL

LEFT CENTER RIGHT
 SPRAY BOOM CONTROL
 -ON
 MAIN -OFF

650973- SPRAY BOOM CONTROL DECAL

TO CALCULATE ACRES SPRAYED,
 SELECT SPEED AND
 MULTIPLY HOURS - CONSTANT
 SPEED CONSTANT
 4 MPH - 29.08
 5 MPH - 36.35
 6 MPH - 43.62
 7 MPH - 50.89
 8 MPH - 58.16
 NOTE: FOR 60 FT. BOOM

650863- ACRE TIMER DECAL

FAST
 THROTTLE
 SLOW

650967- THROTTLE DECAL

FLASHER

650977- FLASHER DECAL

M.P.H.

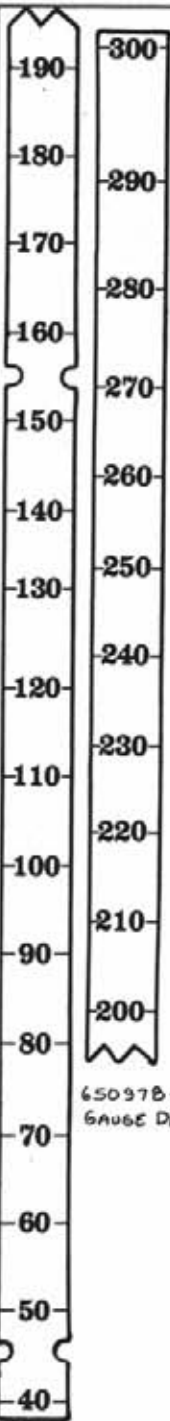
650939- SPEEDO & TACH DECAL

R.P.M.

FORWARD
 HYDRASTAT
 REVERSE

650968- HYDROSTATIC CONTROL DECAL

ITEM NO.	DESCRIPTION	
	HAGIE HAGIE MANUFACTURING COMPANY CLAIRBORO, IOWA 50525	
	REMOVE ALL SHARP CORNERS & BURRS	
	TOLERANCES UNLESS OTHERWISE SPECIFIED	
FRACTION	DECIMALS	ANGLES
DESCRIPTION	SCALE	
DRAWN BY	CHECKED BY	APPROVED BY
DATE	DRAWING NUMBER	
NO. DATE E.C. BY	REVISION	SHEET OF



650935- SPEEDOMETER DECAL

CAUTION
DO NOT USE ETHER AS A STARTING FLUID WITH THIS ENGINE. IT IS EQUIPPED WITH A GLOW PLUG IGNITER. USE OF ETHER MAY RESULT IN INJURY OR DEATH. SEE OPERATOR'S MANUAL FOR STARTING INSTRUCTIONS.

650858- NO ETHER DECAL

Keep wheel bolts tight. See owner's manual for torque specifications.

650985- WHEEL BOLT TORQUE DECAL

NOTICE
TO PREVENT SEAL DAMAGE INSIDE THE SOLUTION PUMP

- DO NOT ALLOW SOLUTION PUMP TO RUN DRY. WHEN YOU RUN OUT OF SOLUTION, SHUT OFF THE SOLUTION PUMP.
- DO NOT OPERATE SOLUTION PUMP FOR MORE THAN FIVE MINUTES AT A TIME WITHOUT PUMPING SOLUTION THROUGH.
- ALWAYS DRAIN THE SOLUTION PUMP IF STORING THE HI-TRACTOR FOR AN EXTENDED PERIOD OF TIME.
- BE SURE TO PRIME THE SOLUTION PUMP WHEN REMOVING THE HI-TRACTOR FROM STORAGE.

650822- SOLUTION PUMP SEALS DECAL

650978- SIGHT GAUGE DECAL

DIESEL STARTING INSTRUCTIONS
TURN SWITCH TO POSITION R (RUN). RELEASE STOP CONTROL. OPEN THROTTLE FULLY.
WARM WEATHER OR ENGINE WARM
TURN SWITCH TO HS (HEAT & START).
COLD WEATHER
TURN SWITCH TO H (HEAT) FOR 15-20 SECONDS. TURN SWITCH TO HS. IF ENGINE DOESN'T START IN 20 SEC. RETURN TO H FOR 10 SEC. REPEAT HS. ENGINE OIL MUST CONFORM TO MIL-L-2104B 10 W 30 SEE MANUAL

650893- DIESEL START DECAL

CAUTION
Shields are for your protection. Keep them in place.

650989- SHIELDS DECAL

CAUTION
ENGINE FUEL CAN BE DANGEROUS

- TURN OFF ENGINE BEFORE REFUELING.
- DO NOT SMOKE WHILE REFUELING.
- CLEAN OFF ANY SPILLED FUEL AFTER REFUELING.

CARELESSNESS WITH FUEL CAN KILL

650818- CAUTION, ENGINE FUEL DECAL

CAUTION
DON'T RISK INJURY BY SLIPPING OR FALLING
BE CAREFUL
WATCH YOUR STEP

650816- WATCH STEP DECAL

WARNING
CHEMICALS ARE DANGEROUS.
READ THE CHEMICAL MANUFACTURER'S LABELS TO AVOID INJURY OR DAMAGE.

650829- WARNING, CHEMICALS DECAL

CAUTION
READ OPERATOR'S MANUAL. BE ALERT. LEARN TO OPERATE THIS MACHINE SAFELY. OBSERVE ALL SAFETY PRACTICES. MACHINES CAN BE HAZARDOUS IN THE HANDS OF AN UNFAMILIAR, UNTRAINED, OR COMPLACENT OPERATOR. DON'T RISK INJURY OR DEATH.

1. Keep all shields in place.
2. Shut off engine before servicing.
3. When mechanism becomes clogged, shut off engine before cleaning.
4. Keep hands, feet, and clothing away from all moving parts.
5. NO RIDERS.

650974- CAUTION COMBINATION DECAL

WARNING
THIS MACHINE WAS NOT DESIGNED TO CARRY PASSENGERS.
FAILURE TO KEEP PASSENGERS OFF MAY RESULT IN THEIR INJURY OR DEATH.

650815- NO PASSENGERS DECAL

CAUTION
Electrical system is 12 volt negative ground. When using booster with jumper cables, precautions must be taken to prevent personal injury or damage to electrical parts.

1. Attach one end of jumper cable to positive terminal of booster battery and other end to positive terminal of vehicle battery connected to starter motor.
2. Attach one end of second cable to negative terminal of booster battery and other end to vehicle frame away from battery. Do not attach to cab or cab support.
3. To remove cables, reverse above sequence exactly to avoid sparks. See operator's manual for additional information.

650982- ELECTRICAL SYSTEM DECAL

PARKING BRAKE

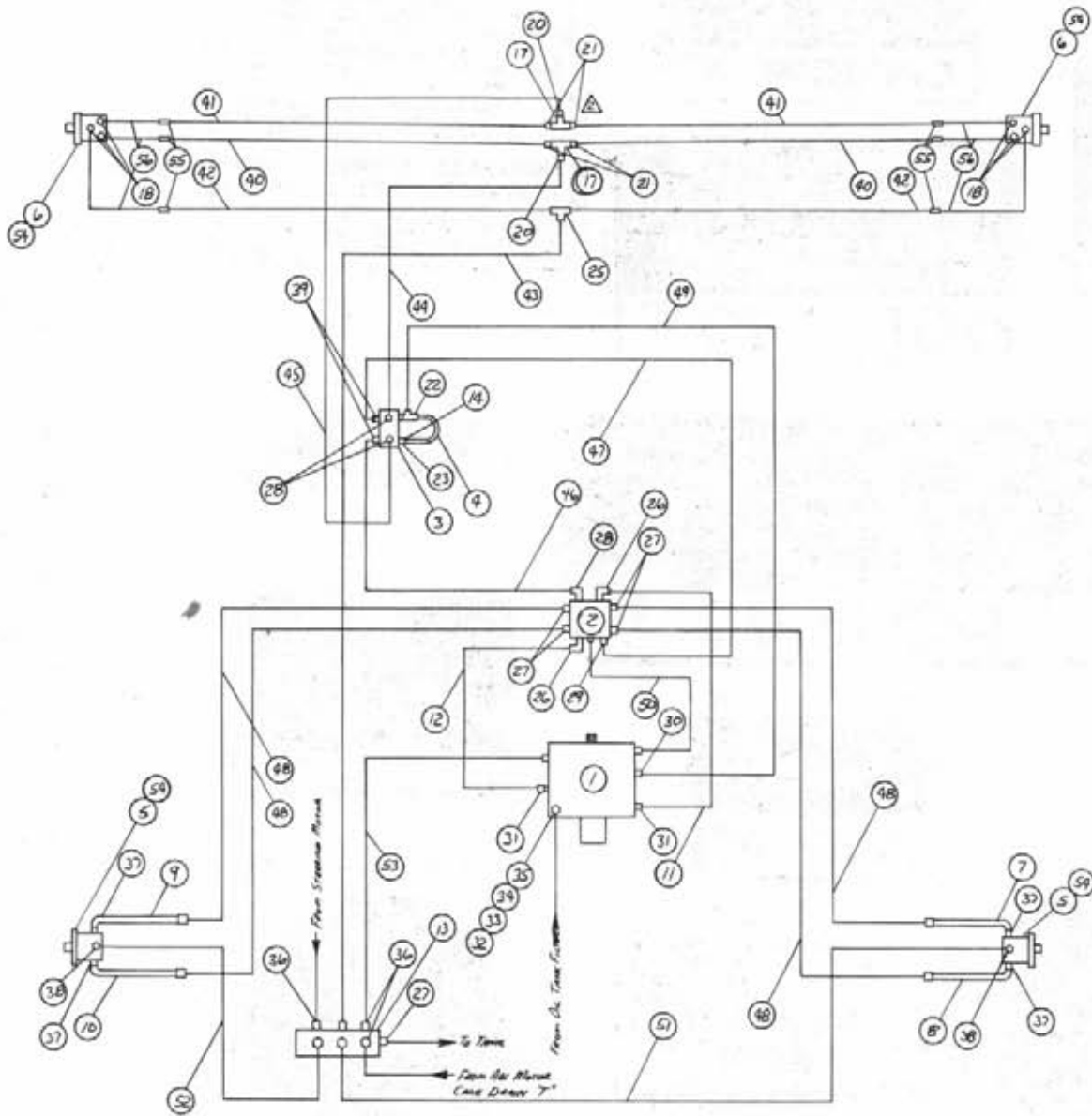
650814- PARK BRAKE DECAL

CAUTION
FOR EMERGENCY STOP;
1. MOVE CONTROL LEVER TO THE N.S. (NEUTRAL STOP) POSITION.
2. APPLY BRAKES.
3. TURN ENGINE OFF.

FOLLOW THESE STEPS TO PREVENT INJURY OR DAMAGE.

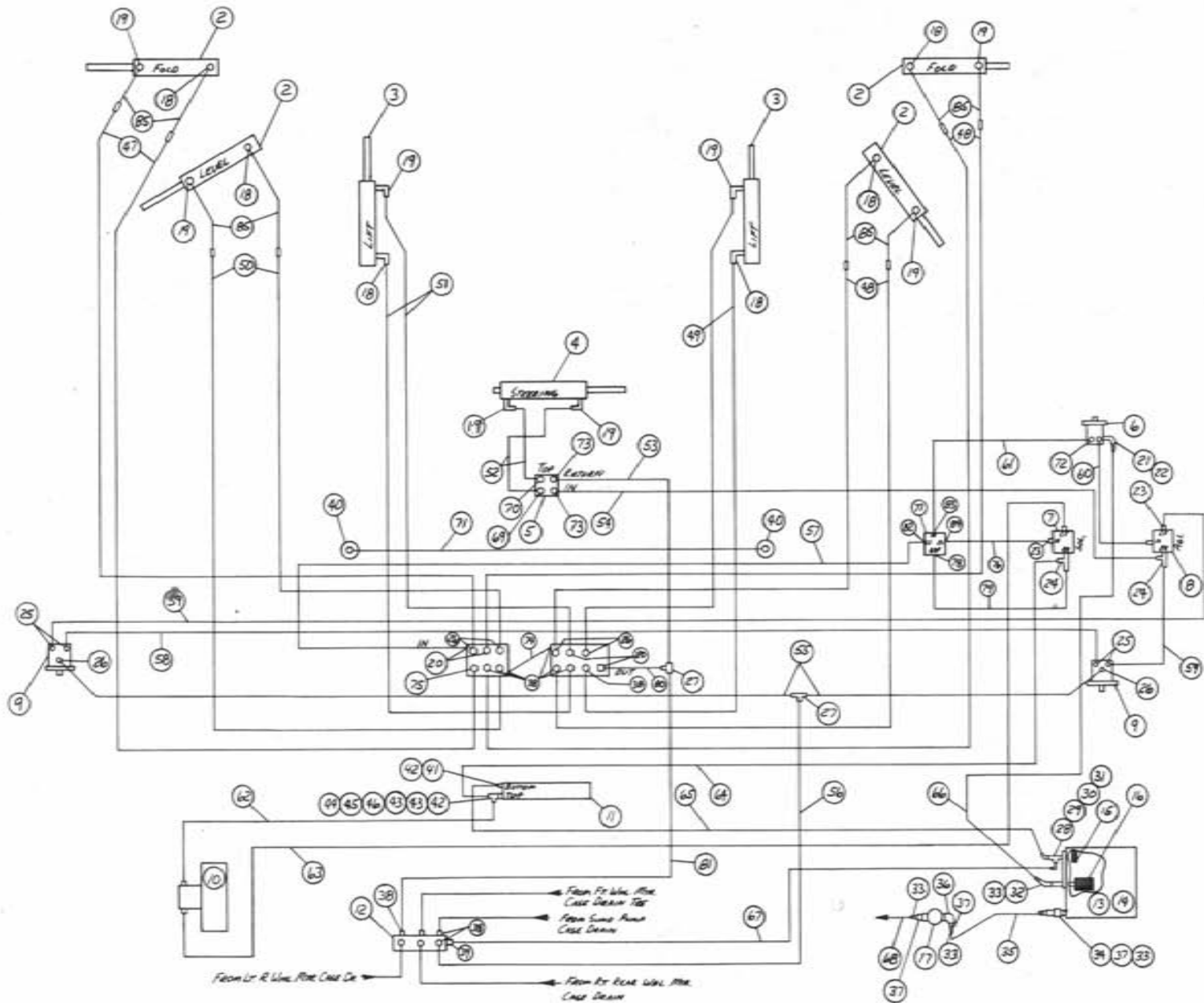
650831- EMERGENCY STOP DECAL

DESCRIPTION		DATE	BY
HAGIE MANUFACTURING COMPANY CLARION, IOWA 50525			
REMOVE ALL SHARP CORNERS & BURRS			
TOLERANCES UNLESS OTHERWISE SPECIFIED			
FRACTION	DECIMALS	ANGLES	
DESCRIPTION	DATE	BY	SCALE
CHECKED BY	DATE	APPROVED BY	DATE
NO. DATE E.C. BY	REVISION	SHEET	OF

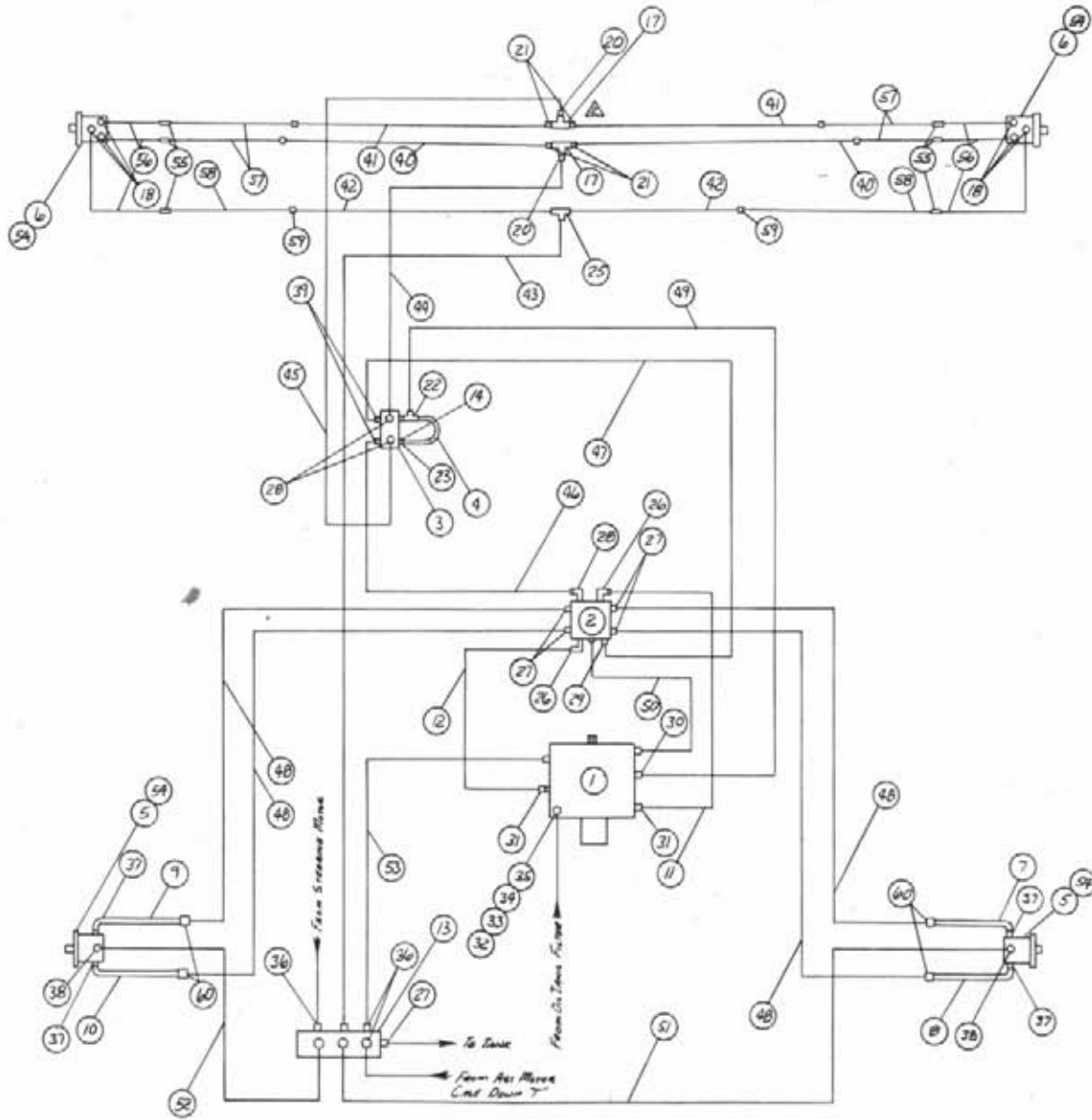


1982 - 647-S CLOSED LOOP SCHEMATIC

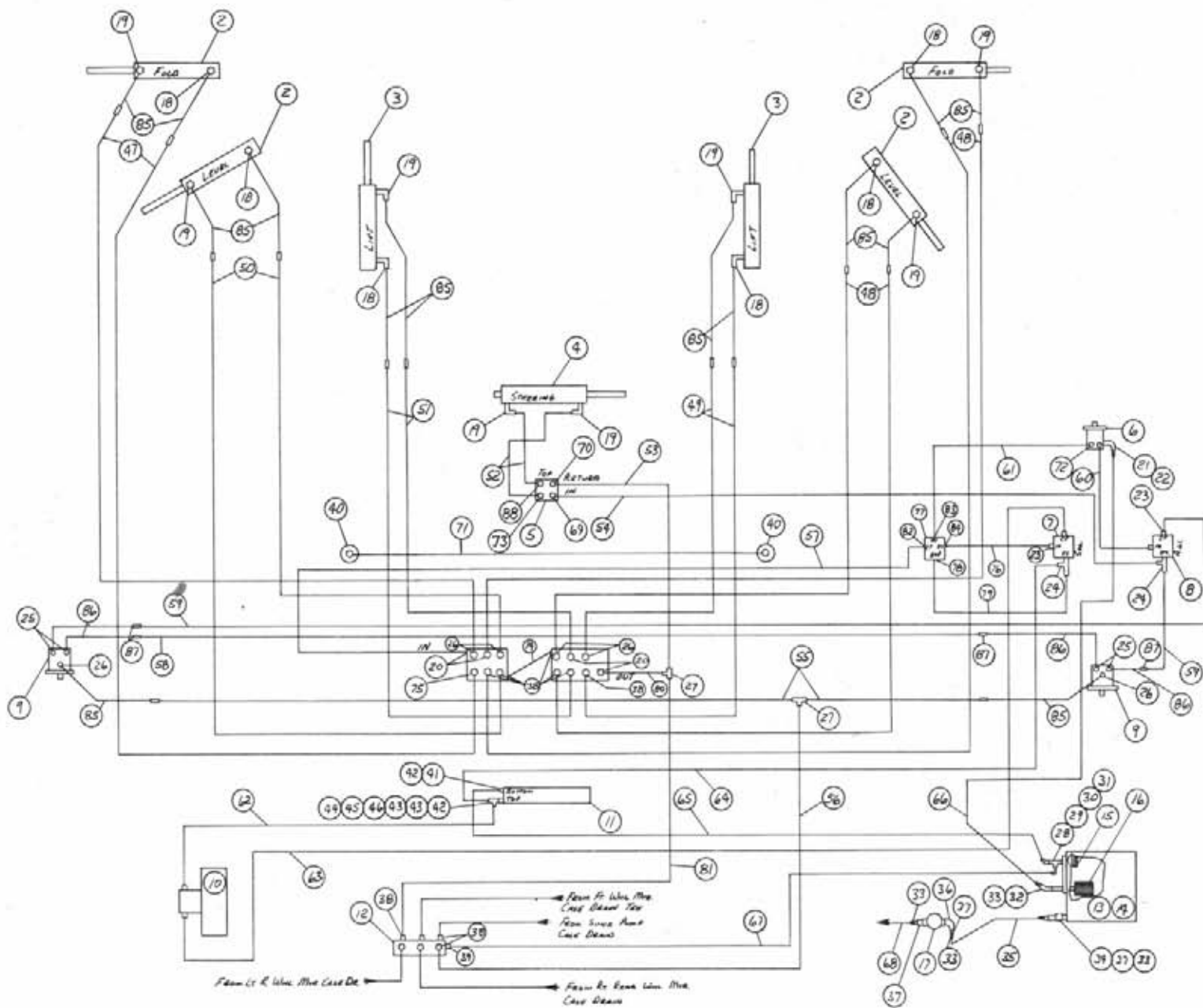
Ref.	Req.	Part No.	Description	Ref.	Req.	Part No.	Description
1	1	611054	Sundstrand Pump	28	4	618100	1 1/16 MOR 90° 1/2 NPSM
2	1	615003	Lg. hyd. manif.	29	1	618309	1 1/16 MOR x 7/8 MJIC
3	1	606003	FMD valve	30	1	618187	7/16 MOR 90° 1/4 NPSM
4	1	614198	"u" tube	31	2	618186	1 5/16 MOR x 1 5/16 MJIC
5	2	610030	Whl. mtr. thru shaft	32	1	618131	7/8 MOR x 3/4 FNPT
6	2	610029	Wheel motor	33	1	504702	3/4 NPT cl ^b nipple
7	1	615276	Tube ass'y, long rt.	34	1	504501	3/4 NPT 90° el.
8	1	615237	Tube ass'y, short rt.	35	1	712251	3/4 NPT x 1" hose barb
9	1	615277	Tube ass'y, long lt.	36	3	618126	9/16 MOR x 9/16 MJIC
10	1	615236	Tube ass'y, short lt.	37	4	618308	1 5/16 MOR x 1 1/16 MJIC
11	1	615211	Tube ass'y, manif. rt.	38	2	618241	3/4 MOR 90° 3/4 MJIC
12	1	615213	Tube ass'y, manif. lt.	39	2	618095	1 1/16 MOR x 1/2 NPSM
13	1	615266	Return manifold	40	2	615443	Hose, Ft. whl. mtr. to tee
14	2	618132	1 1/16 MOR x 7/8 FOR	41	2	615445	Hose, flo. cont. to whl. mtr.
				42	2	615444	Hose, ft. whl. mtr. CD
				43	1	615243	Hose, "T" to ret. case dr.
17	1	615276	Hi press. tee w/dm't	44	1	615241	Hose, FMD vlv. to tee
18	4	611125	3/4 MOR x 3/4 MJIC	45	1	615241	Hose, FMD vlv. to block
				46	1	615240	Hose, manif. to manif.
20	1	618062	1/2 NPT 90° 1/2 NPSM	47	1	615239	Hose, R. whl. mtr. to man.
21	2	618197	1/2 NPT x 1/2 NPSM	48	4	615244	Hose, Charge press.
22	1	618287	7/8 MOR x 9/16 MJIC Br. tee	49	1	615247	Hose, Sund. to 1g. manif.
23	1	611126	7/8 MOR x 7/8 MJIC	50	1	615246	Hose, RR case drain
24	2	618100	1 1/16 MOR 90° 1/2 NPSM	51	1	615245	Hose, LR case drain
25	1	618019	9/16 MJIC tee	52	1	615250	Hose, Pump to return
26	2	618178	1 5/16 MOR 90° 1 5/16 MJIC	53	1	611159	3/4 MOR plug
27	5	611127	1 1/16 MOR x 1 1/16 MJIC	54	4	618314	3/4 MJIC x 3/4 MJIC
				55	6	615438	Hyd. tube ass'y



Ref.	Req.	Part No.	Description	Ref.	Req.	Part No.	Description
1	2	606585	3-Spool valve	44	1	618197	1/2 NPT x 1/2 NPSM
2	4	620052	Lev. & fold cyl.	45	1	504702	3/4 NPT cl. nipple
3	2	620499	Lift cylinder	46	1	504511	3/4 NPT side out. el.
4	1	620249	Strg. cylinder	47	1	611212	Hose, lt. hand fold
5	1	749150	Strg. motor	48	2	611202	Hose, RH lev. & fold
6	1	610141	Auxiliary pump	49	4	611204	Hose, Rt. hand lift
7	1	606818	Solution VFC	50	2	611210	Hose, Lt. hand level
8	1	606827	Agitator VFC	51	2	611208	Hose, Lt. hand lift
9	2	610044	Agitator motor	52	2	615308	Hose, Mtr. to cylinder
10	1	690053	Flomax pump	53	1	615341	Hose, mtr. to ret.
11	1	618088	Oil cooler	54	1	615342	Hose, Agl. VFC to strg.
12	1	615266	Ret. manif. wid.	55	2	615442	Hose, Agl. CD. to tee
13	1	760617	Oil tank wid.	56	1	615313	Hose, Agl. case "I" to ret.
14	1	760624	Receiver plate wid.	57	1	615343	Hose, Flo. div. to 6-spl.
15	1	605603	Oil diffuser	58	1	615440	Hose, Agl. mtr. jump.
16	1	605600	"In tank" filter	59	2	615441	Hose, Agl. VFC to mtr.
17	1	605601	Filter - 10 MIC	60	1	615294	Hose, pump to agl. VFC
18	6	614365	Restrictor ass'y	61	1	615344	Hose, pump to flo. div.
19	6	611122	1/4 NPT 90° 9/16 MJIC	62	1	615305	Hose, O.C. to Flomax
20	4	618424	9/16 MOR 90° 9/16 MJIC 1g.	63	1	615252	Hose, Flomax to sol. VFC
21	1	712251	3/4 NPT x 1" hose barb	64	1	615251	Hose, O.C. to sol. VFC
22	1	618195	1 1/16 MOR 90° 3/4 FNPT	65	1	601110	Hose, O.C. to tank
23	2	611128	7/8 MOR 90° 7/8 MJIC	66	1	601117	Hose, tank to Cessna
24	2	618130	7/8 MOR run tee	67	1	615248	Hose, ret. to tank
25	4	618241	3/4 MOR 90° 3/4 MJIC	68	1	601116	Hose, Sund. suction
26	6	618119	9/16 MOR 90° 9/16 MJIC	69	1	618048	3/4 MOR x 3/8 NPSM
27	2	618019	9/16 MJIC tee	70	1	615283	3/4 MOR x 3/8 x 45° NPSM
28	1	505101	1" NPT tee	71	1	615283	Hose, leg cyl. jump.
29	1	505200	1" NPT 90° St. el.	72	1	611126	7/8 MOR x 7/8 MJIC
30	1	505110	1" NPT 45° St. el.	73	2	618109	3/4 MOR x 9/16 MJIC
31	1	714331	1" NPT x 3/4 hose barb	74	1	614361	Hose, valve jumper
32	1	506301	1" NPT 45° elbow	75	1	618425	9/16 MOR 45° 9/16 MJIC
33	4	714560	1" NPT x 1" hose barb	76	1	615345	Hose, ext. to In VFC
34	1	506303	1 1/4 NPT 90° elbow	77	1	607509	BGR 52 Flo. cont.
35	1	601115	Hose, tank to filter	78	1	618015	3/8 NPT 90 9/16 MJIC
36	1	506410	1 1/4 NPT 90° St. el.	79	1	615346	Hose, byp. to sol. VFC
37	3	506005	1 1/4 x 1" NPT red. bush.	80	1	615347	Hose, valve to tee
38	10	618126	9/16 MOR x 9/16 MJIC	81	1	615348	Hose, tee to ret.
39	1	611127	1 1/16 MOR x 1 1/16 MJIC	82	1	618435	3/8 NPT x 7/8 MJIC
40	2	620570	Leg lev. cylinder	83	1	618156	3/4 NPT 90° 7/8 MJIC
41	1	619625	3/4 MNPT 90° 3/4 hose barb	84	1	618059	3/4 NPT x 7/8 MJIC
42	2	505213	1" NPT x 3/4 red. bush.	85	1	614335	Cyl. hose extension
43	2	504210	3/4 x 1/2 red. bush.		8		



Ref.	Req.	Part No.	Description	Ref.	Req.	Part No.	Description
1	1	611054	Sundstrand Pump	31	2	618186	1 5/16 MOR x 1 5/16 MJIC
2	1	615003	Lg. Hyd. manifold	32	1	618131	7/8 MOR x 3/4 FNPT
3	1	606003	FMD valve	33	1	504702	3/4 NPT cl. nipple
4	1	614198	"u" tube	34	1	504501	3/4 NPT 90° el.
5	2	610030	Whl. mtr. thru shaft	35	1	712251	3/4 NPT x 1 hose barb
6	2	610029	Wheel motor	36	1	618126	9/16 MOR x 9/16 MJIC
7	1	615276	Tube ass'y long, rt.	37	4	618308	1 5/16 MOR x 1 1/16 MJIC
8	1	615237	Tube ass'y short, rt.	38	2	618241	3/4 MOR 90° 3/4 MJIC
9	1	615277	Tube ass'y short, lt.	39	2	618095	1 1/16 MOR x 1/2 NPSM
10	1	615236	Tube ass'y, manifold rt.	40	2	615443	Hose, Ft. whl. mtr. to tee
11	1	615211	Tube ass'y, manifold rt.	41	2	615445	Hose, Ft. cont. to whl. mtr.
12	1	615213	Return manifold lt.	42	2	615444	Hose, Ft. whl. mtr. C.D.
13	1	615266	Return manifold	43	1	615243	Hose, "T" to ret. case dr.
14	2	618132	1 1/16 MOR x 7/8 FOR	44	1	615241	Hose, FMD VIV. to tee
				45	1	615241	Hose, FMD VIV. to block
				46	1	615240	Hose, FMD VIV. to manif.
				47	1	615239	Hose, Manif. to FMD VIV.
				48	4	611141	Hose, R. Whl. mtr. to man.
				49	1	615244	Hose, charge press.
				50	1	615247	Hose, Sund. to lg. manif.
				51	1	615246	Hose, RR case drain
				52	1	615245	Hose, LR case drain
				53	4	615250	Hose, pump to return
				54	4	611159	3/4 MOR plug
				55	6	618314	3/4 MJIC x 3/4 MJIC
				56	6	615438	Hyd. tube ass'y
				57	4	614306	Hose, ft. whl. mtr. ex. turn
				58	2	615401	Hose, ft. whl. mtr. case dr.
				59	2	619010	9/16 MJIC x 9/16 MJIC
				60	4	618529	1 1/16 MJIC x 1 1/16 MJIC 45°



1982 - 647-SX 6-SPOOL & VFC SCHEMATIC

Ref.	Req.	Part No.	Description	Ref.	Req.	Part No.	Description
1	2	606585	3-Spool valve	45	1	504702	3/4 NPT cl. nipple
2	4	620052	Lev. & fold cyl.	46	1	504511	3/4 NPT slide out el.
3	2	620499	Lift cylinder	47	2	611212	Hose, Lt. hand fold
4	1	620249	Strg. cylinder	48	4	611202	Hose, rh. lev. & fold
5	1	749150	Strg. motor	49	2	611204	Hose, Rl. hand lift
6	1	610141	Auxiliary pump	50	2	611210	Hose, Lt. hand level
7	1	606818	Solution VFC	51	2	611208	Hose, Lt. hand lift
8	1	606827	Agit. VFC	52	2	615308	Hose, mtr. to cyl.
9	2	610044	Agitator motor	53	1	615341	Hose, mtr. to ret.
10	1	690053	Flomax Pump	54	1	615342	Hose, agt. VFC to strg.
11	1	618088	Oil cooler	55	2	615442	Hose, Agt. C.D. to tee
12	1	615266	Ret. manifold w/d.	56	1	615313	Hose, Agt. case "T" to ret.
13	1	760617	Oil tank w/d.	57	1	615343	Hose, flo div. to 6-spl.
14	1	760624	Receiver plate w/d.	58	1	615440	Hose, Agt. mtr. Jump
15	1	605603	Oil diffuser	59	2	615440	Hose, agt. VFC to mtr.
16	1	605600	"In tank" filter	60	1	615294	Hose, pump to agt. VFC
17	1	605601	Filter - 10 Mic.	61	1	615344	Hose, pump to flo. div.
18	6	614365	Restrictor ass'y	62	1	615305	Hose, O.C. to Flomax
19	6	611122	1/4 NPT 90° 9/16 MJIC	63	1	615252	Hose, Flomax to sol. VFC
20	4	618424	9/16 MOR 90° 9/16 MJIC	64	1	615251	Hose, O.C. to Sol VFC
21	1	712251	3/4 NPT x 1" hose barb	65	1	601110	Hose, O.C. to tank
22	1	618195	1 1/16 MOR 90° 3/4 FNPT	66	1	601117	Hose, tank to Cessna
23	2	611128	7/8 MOR 90° 7/8 MJIC	67	1	615248	Hose, ret. to tank
24	4	618130	7/8 MOR run tee	68	1	601116	Hose, Sund. solution
25	4	618241	3/4 MOR 90° 3/4 MJIC	69	1	618048	3/4 MOR 3/8 NPSM
26	6	618119	9/16 MOR 90° 9/16 MJIC	70	1	618188	3/4 MOR-45° x3/8NPSM
27	2	618019	9/16 MJIC tee	71	1	615495	Hose, leg cyl. Jump.
28	1	505101	1" NPT tee	72	1	611126	7/8 MOR x 7/8 MJIC
29	1	505200	1" NPT 90° st. el.	73	2	618109	3/4 MOR x 9/16 MJIC
30	1	505110	1" NPT 45° st. el.	74	1	614361	Hose, valve jumper
31	1	714331	1" NPT x 3/4 Hose barb	75	1	618425	9/16 MOR 45°-9/16 MJIC
32	1	506301	1" NPT 45° elbow	76	1	615345	Hose, Ex. to In VFC
33	4	714560	1" NPT x 1" hose barb	77	1	607509	BGR 52 Flo. cont.
34	1	506303	1 1/4 NPT 90° elbow	78	1	618015	3/8 NPT 90 9/16 MJIC
35	1	601115	Hose, tank to filter	79	1	615346	Hose, byp. to sol. VFC
36	1	506410	1 1/4 NPT 90° st. el.	80	1	615347	Hose, valve to tee
37	3	506005	1 1/4 x 1" NPT red. bush.	81	1	615348	Hose, tee to ret.
38	10	618126	9/16 MOR x 9/16 MJIC	82	1	618435	3/8 NPT x 3/8 MJIC
39	1	620570	1 1/16 MOR x 1 1/16 MJIC	83	1	618156	3/4 NPT 90° 7/8 MJIC
40	2	619625	Leg. lev. cylinder	84	1	618059	3/4 NPT x 7/8 MJIC
41	1	505213	3/4 MNPT 90° 3/4 HB	85	14	614335	Cyl. hose ext.
42	2	505210	1" NPT x 3/4 red. bush.	86	4	616034	Hose, Aglt. mtr. ext.
43	2	504210	3/4 x 1/2 red. bush.	87	4	618314	3/4 MJIC x 3/4 MJIC
44	1	618197	1/2 NPT x 1/2 NPSM	88	1	618496	3/4 MOR-45°-9/16 MJIC

INDEX

A

Access Door	47
Acre Timer	29
Agitator	
Motor	34
Shaft	34
Air Cleaner	14
Band	14
Cap	14
Filter	14
Air Conditioner	
Compressor	26
Evaporator	26
Tightener	26
Air Intake	9
Alternator	5
Adjusting Arm	5
Pulley	5
Spacer	5
Arm	
Lift	42
Throttle	4
Wiper	27

B

Battery	47
Hold Down	47
Bearing, Tank Gland	34
Belly Pan	35
Belt	5,7
Blade	
Impeller	34
Wiper	27
Blower Housing	26
Boom	42
Break Away	43
Bumper	42
Cradle	47
Brace	
Cable	17
Leg	11
Bracket	
Filter	20
Hydrostatic Control	5
Oil Cooler	9
Throttle	4,31
Throttle Cable	4
Tread Adjustment	47

Brake	
Cable	27
Disc	10
Lever	27
Pad	10
Sensor Mount	10
Break Away Boom	43
Bumper, Boom	42
Bushing, Sheave	8

C

Cab	27
Boot	48
Roof	26
Step	27
Cable	
Break	27
Choke	27
Control	31,32,33
Ground	4
Starter	5
Calibration Tube	27
Cap	
Air Cleaner	14
Filler	19
Fuel	21
Hub	25
Radiator	9
Rain	4
Cessna Pump	8
Charge Pump	6
Choke Cable	27
Clamp	
Throttle	4
Tube	11
Cleaner, Air	14
Column, Steering	22
Condenser	9
Mount	9
Console Side Cover	27
Control	
Arm, Throttle	4
Cable	33
Cable, Hydrostatic	32
Cable, Throttle	31
Head	31,32
Mount	32,33
Rod	7

Coupler, Motor	34
Cover	
Console Side	27
Hose	48
Rear	46
Valve	27
Cradle, Boom	47
Crop Shield	49
Crank Spacer	5
Cylinder	
Boom Fold	43,45
Boom Level	43,45
Boom Lift	42,44
Leg	11,12
Mount, Leg	11
Shaft Extension	11
Steering	24,25

D

Diffuser, Oil	19
Dimmer Switch	27
Disc	
Brake	10
Sensor	10
Door	28
Access	47
Catch	27
Handle	28
Lock	28
Drain Cock	9,19
Drive Pump	4

E

Engine	4,5
Door, Rear	47
Hood	46
Mount	4
Evaporator, Air Conditioner	26
Exhaust Pipe	5
Extension, Cylinder Shaft	11

F

Fan	5
Pulley Spacer	5
Filler Cap	19
Filter	14,15,20
Bracket	20
Flasher	29
Floor	
Mat	27
Plate	27

Flow	
Control	14
Divider	15
Divider Mount	16,17
Foam	26,27,28
Fold	
Cylinder	43,45
Cylinder Mount	43
Four Wheel Drive Valve	17
Fuel	
Cap	21
Gauge	29
Sender	21
Tank	21
Fuse	29
Holder	29

G

Gauge	
Fuel	29
Solution	40
Gasket	6,19,35,39
Glass	27,28
Ground	
Cable	4
Strap	27,47
Guide, Stalk	10

H

Handle	33
Door	28
Tank Lid	35
Valve	30
Handrail	
Engine	46
Ladder	35
Headlight	46
Hold Down, Battery	47
Hood	
Engine	46
Prop	47
Hour Meter	29
Hub	10,25
Mount	10
Taper Lock	10
Torque	11
Hydraulic Manifold	7,18
Hydrostatic	
Control Bracket	5
Control Cable	32
Control Head	32
Control Mount	32

	I	
Ignition Switch		29
Impeller Blade		34
Indicator Light		29
Instrument Panel		29
	J	
Jack, Ratchet		47
Jumper Cable		47
	K	
Keeper Plate		10,11
Knob		10,13,42
	L	
Ladder		47
Handrail		35
Latch		47
Leg		
Brace		11
Cylinder		11,12
Cylinder Mount		11
Front		11
Rear		10
Shield		10
Level Cylinder		43,45
Mount		43
Pivot		43
Lever, Brake		27
Lid, Tank		35
Lift		
Arm		42
Cylinder		42,44
Cylinder Mount		42
Light		46
Indicator		29
Switch		29
Tail		47
Line Strainer		39
	M	
Manifold		
Four Wheel Drive		14
Hydraulic		7
Return		18
Mat, Floor		27
Meter, Hour		29
Mirror, Rear View		27

	Motor	
Agitator		34
Mount		4,5
Mounting Plate		34
Steering		22
Wheel		10,11
Wiper		27
	Mount	
Brake Sensor		10
Condensor		9
Control		33
Engine		4,5
Flow Divider		16
Fold Cylinder		43
Hub		10
Hydrostatic Control		32
Leg Cylinder		11
Level Cylinder		43
Manifold		7
Motor		4,5
Pump		5,8
Radiators		9
Sight Gauge		35
Solution Solenoid		39
Steering Motor		22
Valve		30
	Mounting	
Channel, Seat		27
Pad		22
Plate, Motor		34
Plate, Pump		8
Plate, Valve		17
Muffler		4
	N	
Neutral Switch		7
	0	
	0t1	
Cooler		9
Cooler Bracket		9
Diffuser		19
Tank		19
	P	
Pad, Brake		10
Pan, Belly		35
Panel		
Instrument		29
Quarter		47

Taper Lock Hub	10
Temperature Sender	4
Throttle	
Bracket.	31
Cable Bracket.	4
Clamp.	4
Control Arm.	4
Control Cable.	31
Control Head	31
Tie Rod.	23
Timer, Acre.	29
Tire	13
Toggle Switch.	29
Torque Hub	11
Transom.	43
Tread Adjustment Bracket	47
Tube Clamp	11

V

Valve	
Ball	37
Contromatic.	36,37
Cover.	27
Four Wheel Drive	17
Handle	30
Mount.	30
Mount Plate.	17
Solution	39
Three Spool.	30
Variable Flow Control.	17

W

Wheel.	13
Cover, Steering.	22
Motor.	10,11
Steering	22
Wiper	
Arm.	27
Blade.	27
Motor.	27
Spacer	27