

Kelley

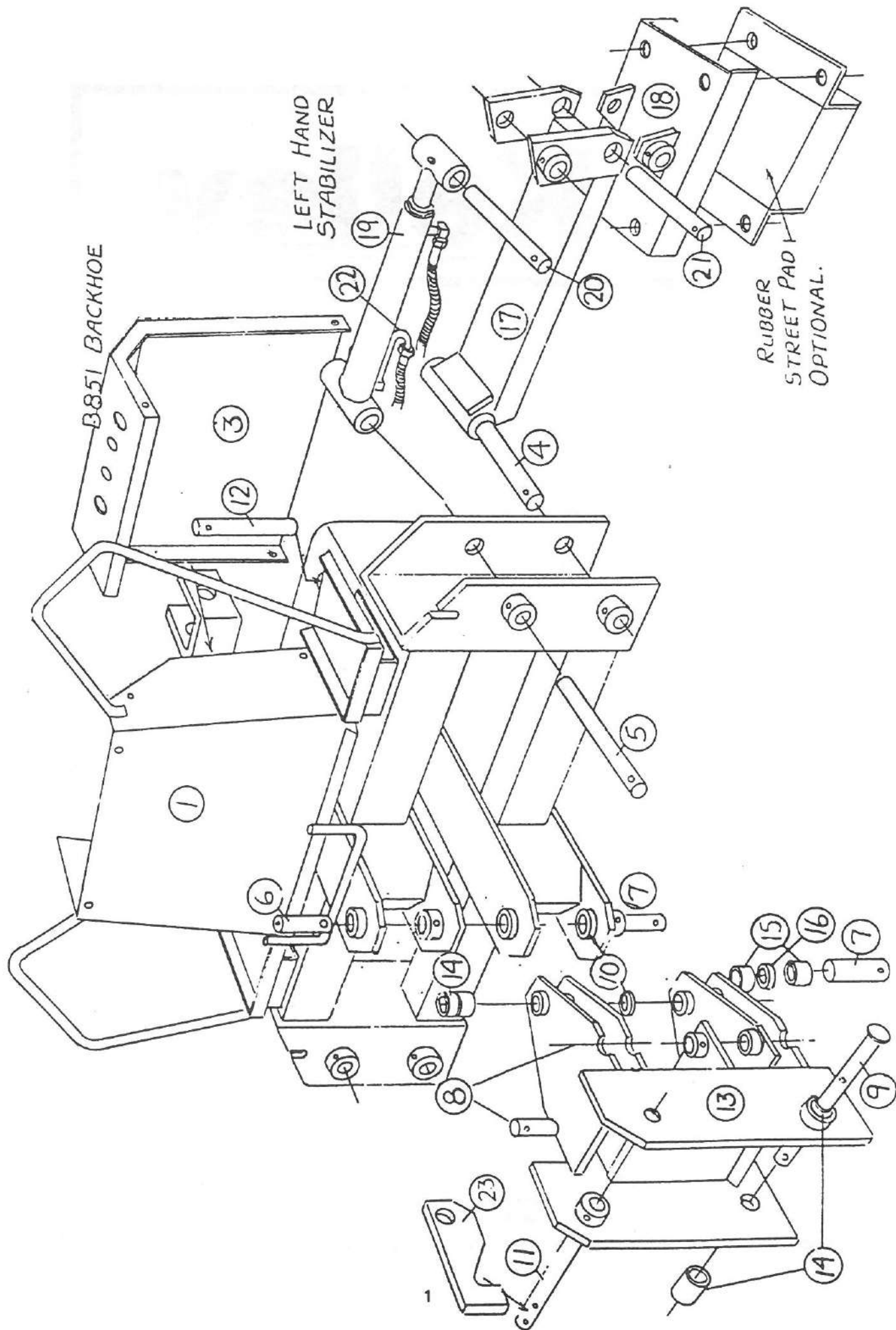
B851

BACK-HOE

Parts Manual

KELLEY MANUFACTURING CORPORATION

PO BOX 276 • 131 PROGRESSIVE DRIVE • OTTOVILLE, OHIO 45876 • PHONE 419-453-5539 • FAX 419-453-2278

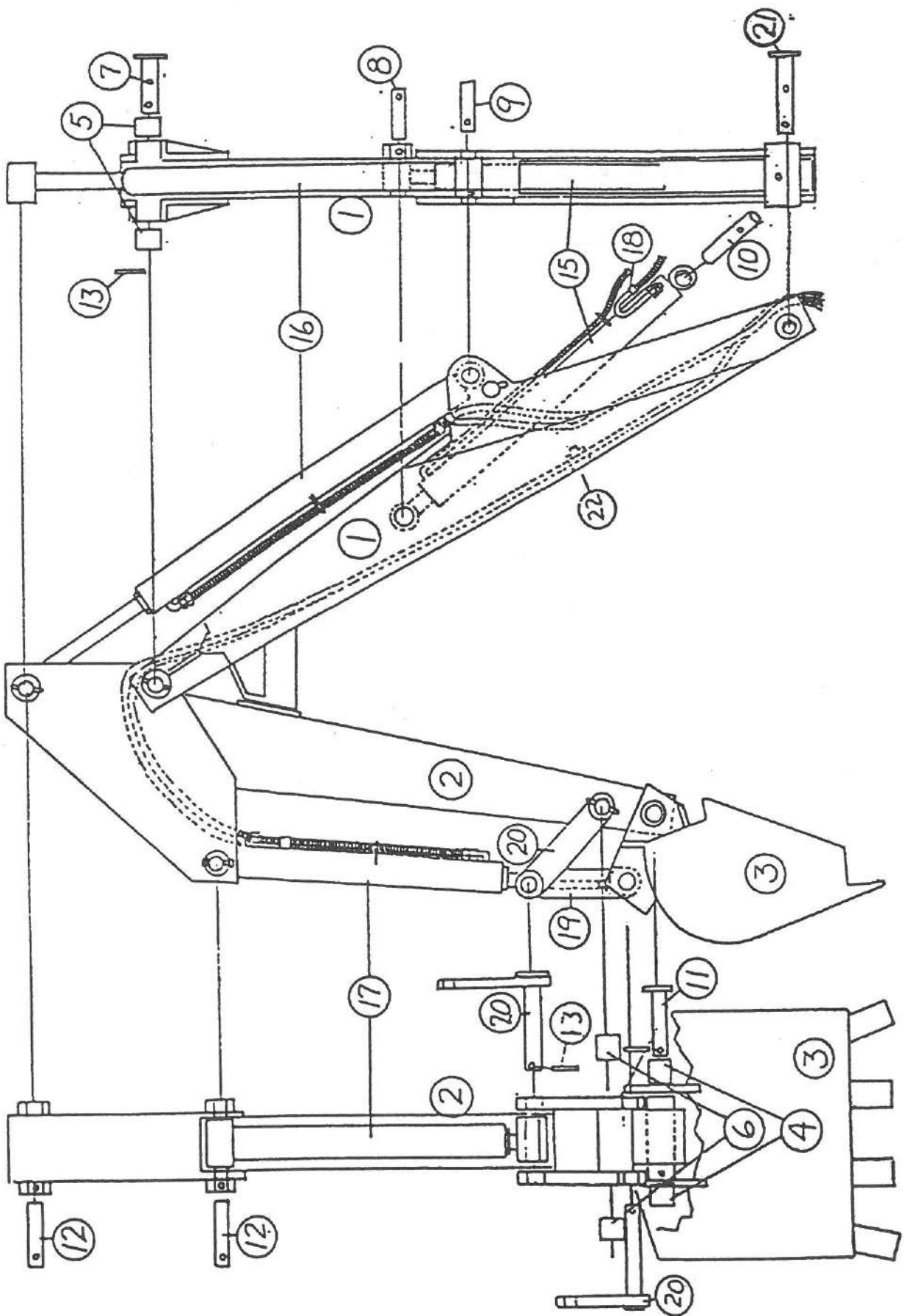


B851
Main Frame, Swing, & Stabilizer

<u>ILL#</u>	<u>Qty</u>	<u>Part #</u>	<u>Description</u>
1	1	BMF13204	Main Frame Weld Assembly
3	1	BMS13002	Rear Console Cover
4	2	SPN13004	Lower Stabilizer Pivot Pin 1-1/4" x 7-7/8"
5	2	SPN119	Stab. Cylinder Base Pivot Pin 1" x 7-3/4"
6	1	SPN13005	Top Swing Pivot Pin 1-1/4" x 5-1/8"
7	1	SPN13006	Lower Swing Pivot Pin 1-1/4" x 6-1/8"
8	2	SPN10620	Swing Cylinder Rod End 1" x 6 1/4"
9	1	SPN13007	Boom Pivot Pin 1-1/4" x 11-1/4"
10	2	SWS10961	Wear Washers 1-1/4" ID (Heat Treated)
11	1	SPN13008	Boom Cylinder Base Pin 1" x 8-5/8"
12	2	SPN13009	Swing Cylinder Base Pin 1" x 10-7/8"
13	1	BMF13010	Swing Weld Assembly
14	3	SFT13011	1-1/4" x 2" Steel Wear Bushing Grooved
15	2	SFT10950	1-1/4" x 1" Steel Wear Bushing Plain
16	1	SFT13012	3/4 Spacer for Swing Bushing
17	2	BMF13013	Stabilizer Weld Assembly
18	2	BMF13014	Stabilizer Pad
19	2	BCY13015	Stabilizer Cylinder
20	2	SNT10548	Stabilizer Rod End Pin 1" x 7"
21	2	SPN13004	Pad Pivot Pin 1-1/4" x 7-7/8"
22	2	BOL13017	Stabilizer Oil Tubes #99
23	1	BMF13016	Boom Safety Locking BAR
NI	7	SBT10795	5/16" x 2" Grade 8 Capscrew
NI	7	SNT12434	5/16" Locknut
NI	5	SBT12437	3/8" x 2 1/4" Grade 8 Capscrew
NI	5	SNT2031	3/8" Locknut
NI	4	SFT11734	1/2" Threaded Zerk
NI	8	SBT10502	1/4" Self-Tapping Capscrew
NI	2	SPN10530	5/16" x 2" Roll Pin
NI	2	SBT10820	5/16" x 1" Capscrew
NI	2	SWS13088	2" Swing mast Pin Retainer Washer

DIPPER STICK B850 BACKHOE

BOOM



B851

Dipper Stick, Boom & Bucket Assembly

<u>ILL#</u>	<u>Qty</u>	<u>Part #</u>	<u>Description</u>
1	1	BMF13020	Boom Weld Assembly
2	1	BMF13021	Stick Weld Assembly
3	1	Machinery	Bucket Assembly
4	2	SFT13022	1-1/4" x 2" Steel Wear Bushing Plain
NI	1	SFT13027	1 7/16" OD x 3/8" Spacer for #4 Wear Bushing
5	2	SFT13023	1 1/4" x 2" Steel Wear Bushings Grooved
6	2	SFT13026	1 x 1-1/2 Steel Wear Bushing Plain
NI	1	SFT13036	1 3/16" OD x 1-3/8" Spacer for #6 Wear Bushing
7	1	SPN13024	Stick Pivot Pin 1-1/4" x 10-3/4"
8	1	SPN13025	Boom Cylinder Rod end 1" x 7 1/4"
9	1	SPN10457	Stick Cylinder Base end 1" x 6 1/4"
11	1	SPN13004	Bucket Pivot Pin 1-1/4" x 7-7/8"
12	2	SPN10949	Stick Cylinder & Bucket Cylinder Pin 1" x 6-5/8"
13	3	SPN10530	5/16" x 2" Roll Pin
15	1	BCY13028	Boom Cylinder, 2-1/2" x 26"
16	1	BCY13029	Stick Cylinder, 2-1/2" x 20"
17	1	BCY13030	Bucket Cylinder, 2-1/2" x 20"
18	1	BOL13031	1/2" Boom Cylinder Tube #1010
19	1	BMF13032	Bucket Link
20	2	BMF13033	Cylinder Link & Pin Weld Assembly
21	1	SPN13007	Boom Pivot Pin 1-1/4" x 11 1/4"
22	1	SCL13051	Boom Hose Clamp
NI	5	SBT10795	5/16" x 2" Grade 8 Capscrew
NI	2	SBT12437	3/8" x 2-1/2" Grade 8 Capscrew
NI	5	SNT12434	5/16" Locknut
NI	2	SNT2031	3/8" Locknut
NI	12	SFT11734	1/5" Threaded Zerk
NI	2	SMS13034	Rubber Grommet (End of Boom)
NI	1	SMS13035	Plastic Plug for Stick Grease Zerk

DOO/DACK-HOE
CONTROL VALVE, VALVE FITTINGS & HOSES

FOR PORTS B,D,E,F

FOR PORTS H,J,K,L

PRESSURE

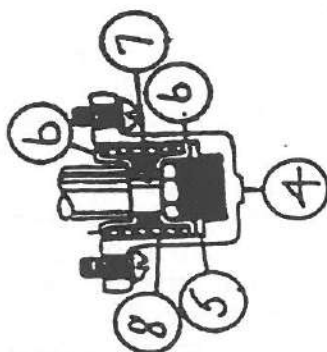
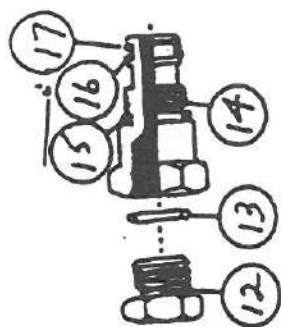
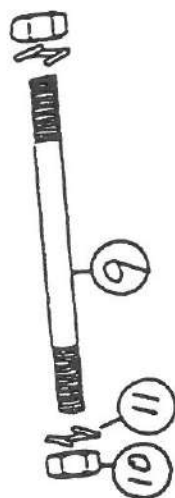
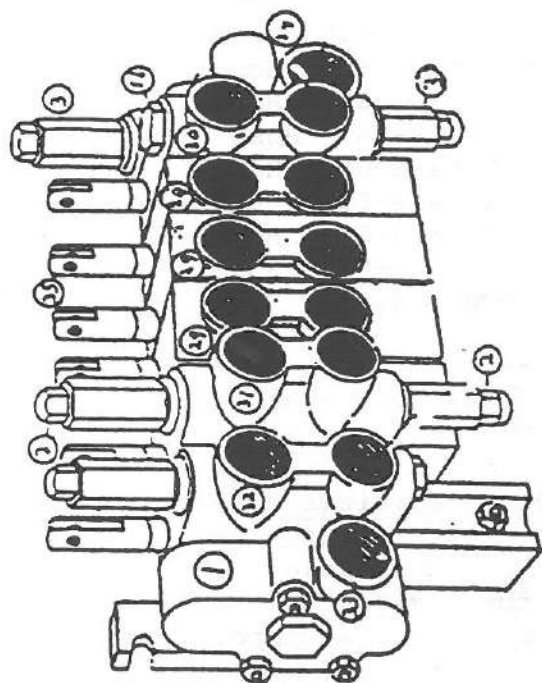
FOR PORTS C,G

FOR PORTS I,M

FOR PORTS J,M

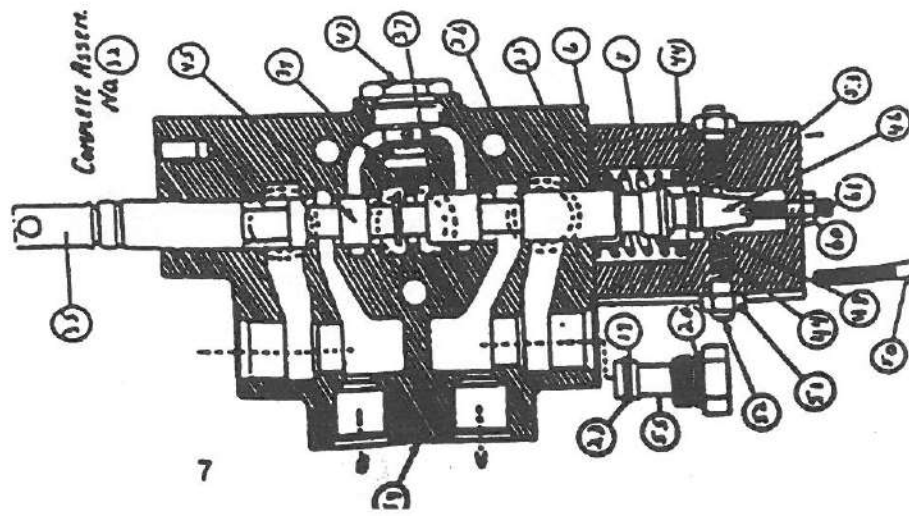
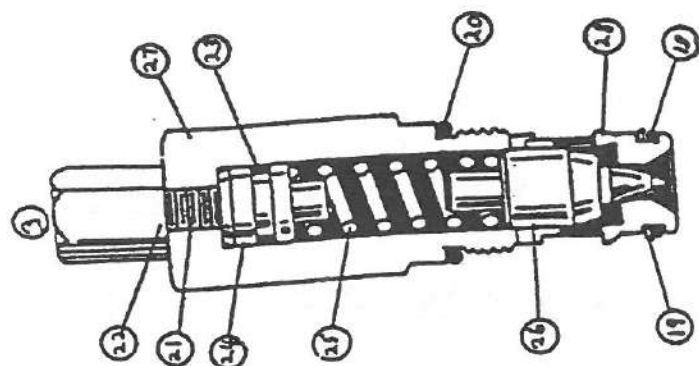
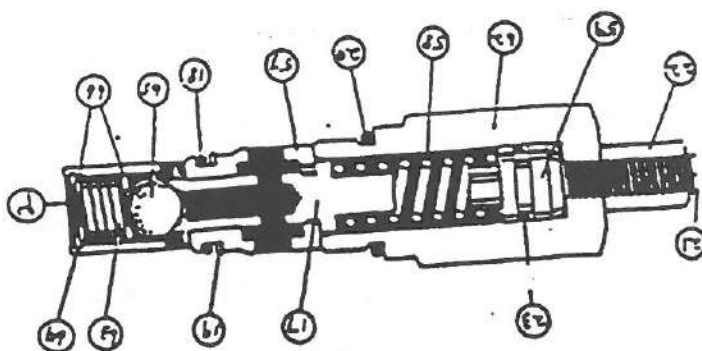
B851
Valve, Fittings, & Hoses

<u>ILL#</u>	<u>Qty</u>	<u>Part #</u>	<u>Description</u>
1	1	SVV13048	6-Spool Valve Assembly W/Boom Float-(Gresen/Dana)
2	1	SFT250	Gauge Fitting
3	1	SMS10033	Pressure Gauge
4	8	SFT10146	C5315 x 6 x 8 O'Ring Adaptor
7	4	SFT2642	C5315 x 8 O'Ring Adaptor
9	3	SFT271	C5506 x 8 90 Degree Elbow
10	1	SFT10079	C5315 x 8 x 10 O'Ring Adaptor
A	1	SHO11123	8P-8-8JFS-50" Pressure Hose
B	1	SHO12987	4P-6JICF-6JICF 90 Degree Tube L-103" Hose
C	1	SHO12989	6P-8JICF-8JICF 90 Degree Tube L-133" Hose
D	1	SHO12996	4P-6JICM-6JICF 90 Degree Tube L-44" Hose
E	1	SHO12996	4P-6JICM-6JICF 90 Degree Tube L-44" Hose
F	1	SHO14024	4P-6JICF-6JICF 90 Degree Tube L-34" Hose
G	1	SHO14006	6P-8JICM-8JICF 90 Degree Tube L-36" Hose
H	1	SHO14010	4P-6JICF-6JICF 90 Degree Tube S-86" Hose
I	1	SHO14017	6P-8JICF-8JICF 90 Degree Tube S-155" Hose
J	1	SHO14021	4P-6JICF-6JICF 90 Degree Tube S-51" Hose
K	1	SHO14021	4P-6JICF-8JICF 90 Degree Tube S-51" Hose
L	1	SHO14024	4P-6JICF-6JICF 90 Degree Tube S-34" Hose
M	1	SHO14013	6P-8JICF-8JICF 90 Degree Tube S-57" Hose
O	1	SHO11123	8P-8-8JFS-50" Return Hose
NI	2	SHO11014	4P-6JFS-6JFS-16" Swing Cross over Hose
NI	1	255304-3/32	1/16" Restrictor for M Port
NI	1	255304-3/32	1/8" Restrictor for G Port
NI	2	SMS13059	Fabric guard F-12-30" For Stabilizer Hoses
NI		SMS13060	Fabric guard F-16-24" For Boom Hoses
NI		SMS13061	Fabric guard F-16-36" for Bucket Hoses over dipper stick pivot
NI	1	SMS13086	Fabric guard F-24-50" For Bucket & Dipper Hoses
NI	2	BOL11722	#99 Steel Oil line, Dipper U-Shaped



DIRECT RELIEF VALVE CARTRIDGE W/EXTERNAL ADJUSTMENT
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785056

RELIEF/ANTI-CAVITATION CHECK
CODE LETTER 'C'
785197

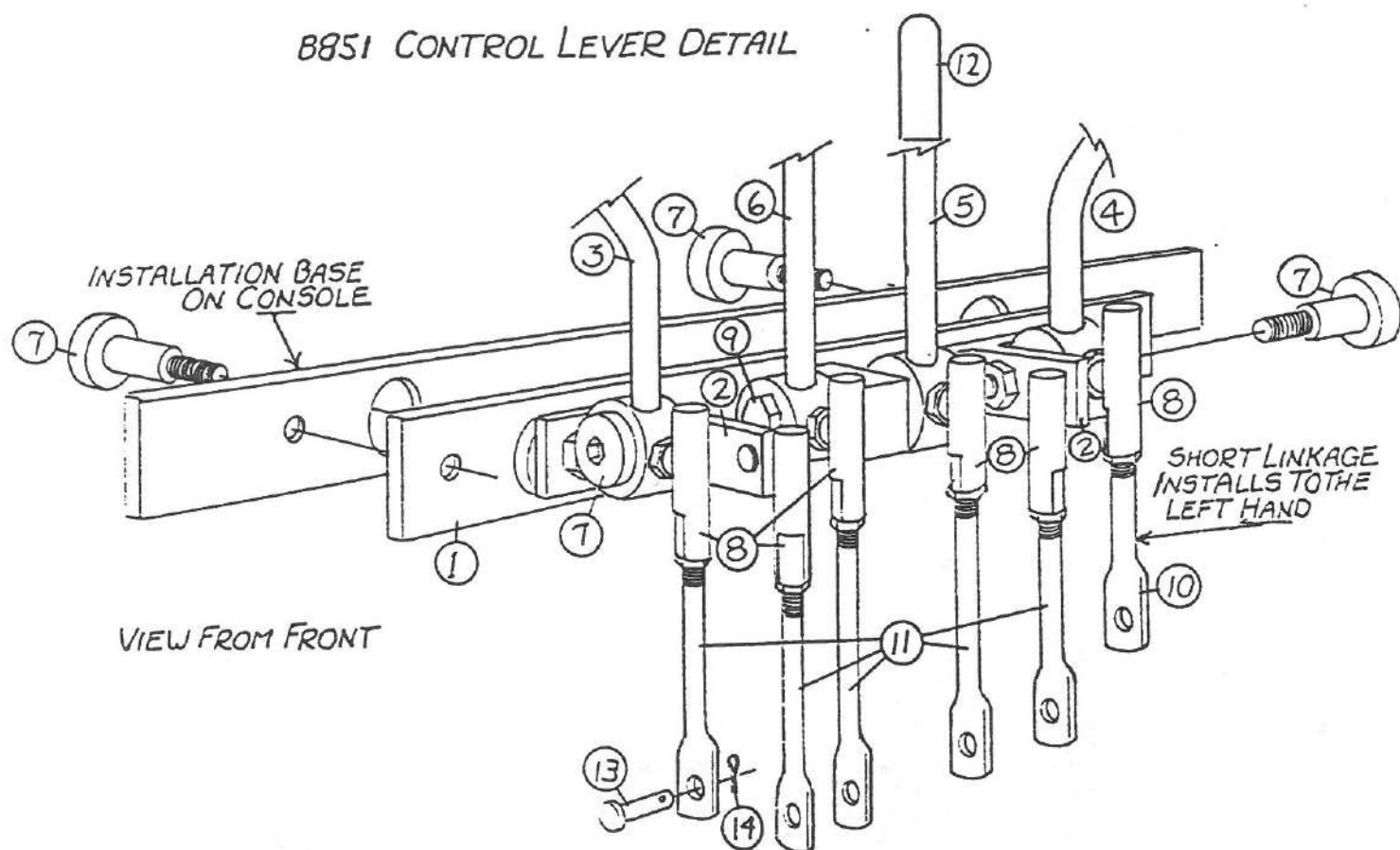


B851

Valve Rexnord w/float spool

Ill	QTY	NO.	Part NO.	Description
1	1	SVV13048	Valve, Rexnord w/float spool	
2	3	785197	Cartridge, Relief Anti-Cavitation	
3	2	785056	Cartridge, Relief	
4	6	254000	Cover	
5	6	255034	Spacer	
6	11	255013	Spring Retainer	
7	6	255035	Spool End	
8	6	410512	Spring	
9	3	255162	Tie Rod	
10	6	401033	Tie Rod Nut	
11	6	400908	Tie Rod Lockwasher	
12	1	355098	Plug #10	
13	1	405393	O'Ring	
14	1	255049	Power Beyond Sleeve (optional)	
15	1	405688	O'Ring (optional)	
16	1	490975	Back Up Ring (optional)	
17	1	255297	Piston	
18	3	404463	O'Ring	
19	5	490963	Back Up Ring	
20	5	405393	O'Ring	
21	5	410556	Adjustment Screw	
22	5	255271	Jam Nut	
23	5	401272	O'Ring	
24	2	255143	Spring Seat	
25	2	410557	Spring	
26	2	255003	Poppet	
27	6	255144	Direct Relief Valve Cartridge Body	
28	1	255044	Poppet Body	
29	3	981100	L.H. and R.H. Stabilizer & Bucket	
30	1	980972	Stick Cylinder Section	
31	1	980973	Swing Section	
32	1	981139	Boom Section w/Float Position	
33	1	980774	Outlet Section	
34	1	98113	Inlet Section	
35	10	255002	Female Spool End	
36	12	490308	O'Ring	
37	6	405895	O'Ring	
38	12	401248	O'Ring	
39	6	406127	O'Ring	
40	6	255021	Load Check Piston	
41	6	410520	Spring	
42	6	505688	O'Ring	
43	8	255020	Plug	
44	1	255258	Spring Retainer	
45	1	255257	Spool Assembly	
46	1	255305	Spool End, Float	
47	1	785011	Load Check Assembly	
48	2	401072	Ball, Detent	
49	2	410560	Spring, Detent	
50	2	402964	Screw, Allen Head	
51	2	401032	Nut	
52	2	410540	Screw, Allen Head	
53	1	254235	Lower Extension	
54	1	254241	Section Body	
55	2	785012	#8 SAE Plug Complete	
56	2	25123	#8 SAE Plug	
57	1	255301	Relief Anti-Cav Body	
58	1	490928	Spring	
59	1	255143	Spring Seat	
60	1	401032	Jam Nut	
61	1	410540	1/4 - 28 Spool Limit Adj. Screw	
62	1	255144	Direct Relief Valve Cartridge Body	
63	1	410559	Spring	
64	1	401502	Snap Ring	
65	1	401067	Ball	
66	1	255302	Spring Guide	

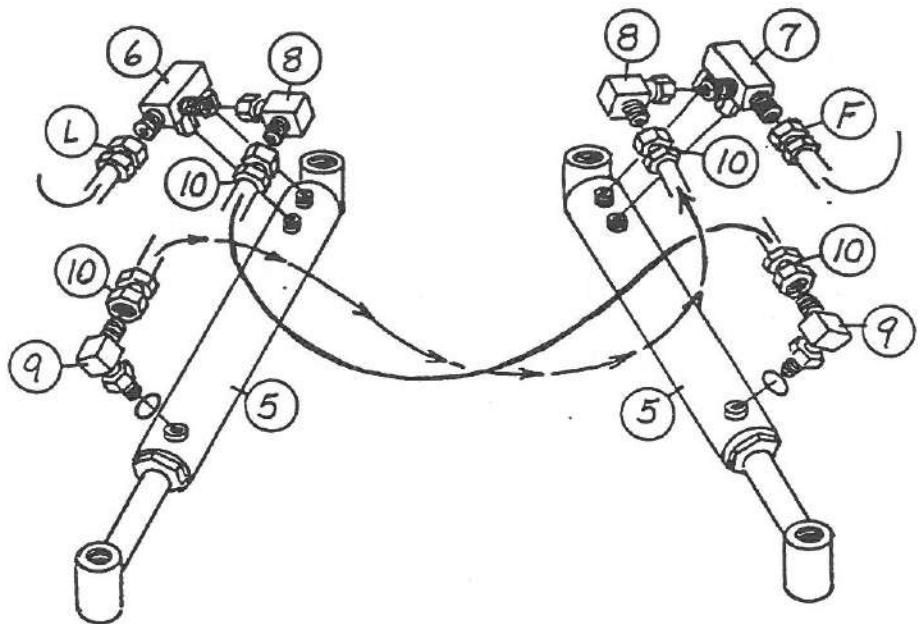
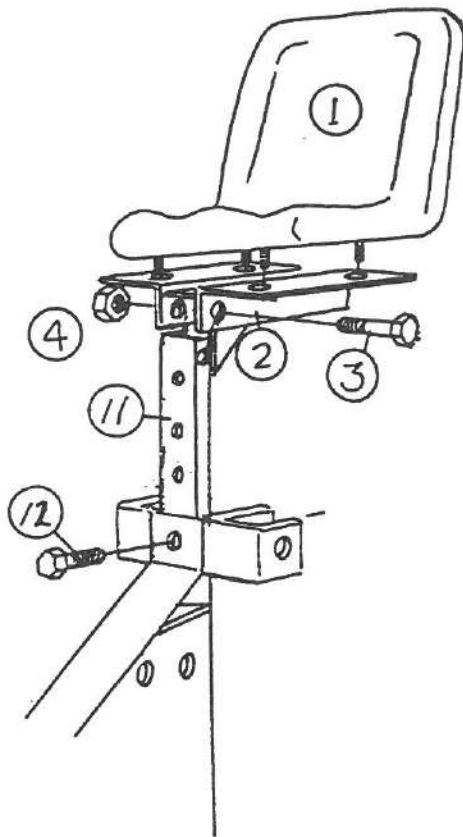
B851 CONTROL LEVER DETAIL



B851 Controls

ILL #	Qty	Part #	Description
1	1	BMS13037	Control Bracket
2	2	BMS13038	Control Pivot Bracket
3	1	BMS13039	Control Handle-Dipper, Bucket
4	1	BMS13040	Control Handle-Boom, Swing
5	1	BMS13041	Control Handle-L.H. Stabilizer
6	1	BMS13042	Control Handle-R.H. Stabilizer
7	4	SBT13043	1/2" Shoulder Bolts
8	6	BMS12595	Ball Joint Connector
9	1	SBT13044	Special 1/2" Capscrew w/Nut
10	1	BMS13045	2-7/8" Control Rod-Boom Section
11	5	BMS13046	3-7/8" Control Rod-All other sections
12	4	SMS13047	Handle Grips for round handle shaft
13	6	SPN10060	Control Rod Pin 1/4" x 3/4"
14	6	SPN237	Pin 1/16" x 1" Cotter Pin

SEAT & SWING CYLINDER DETAIL
B851 BACKHOE



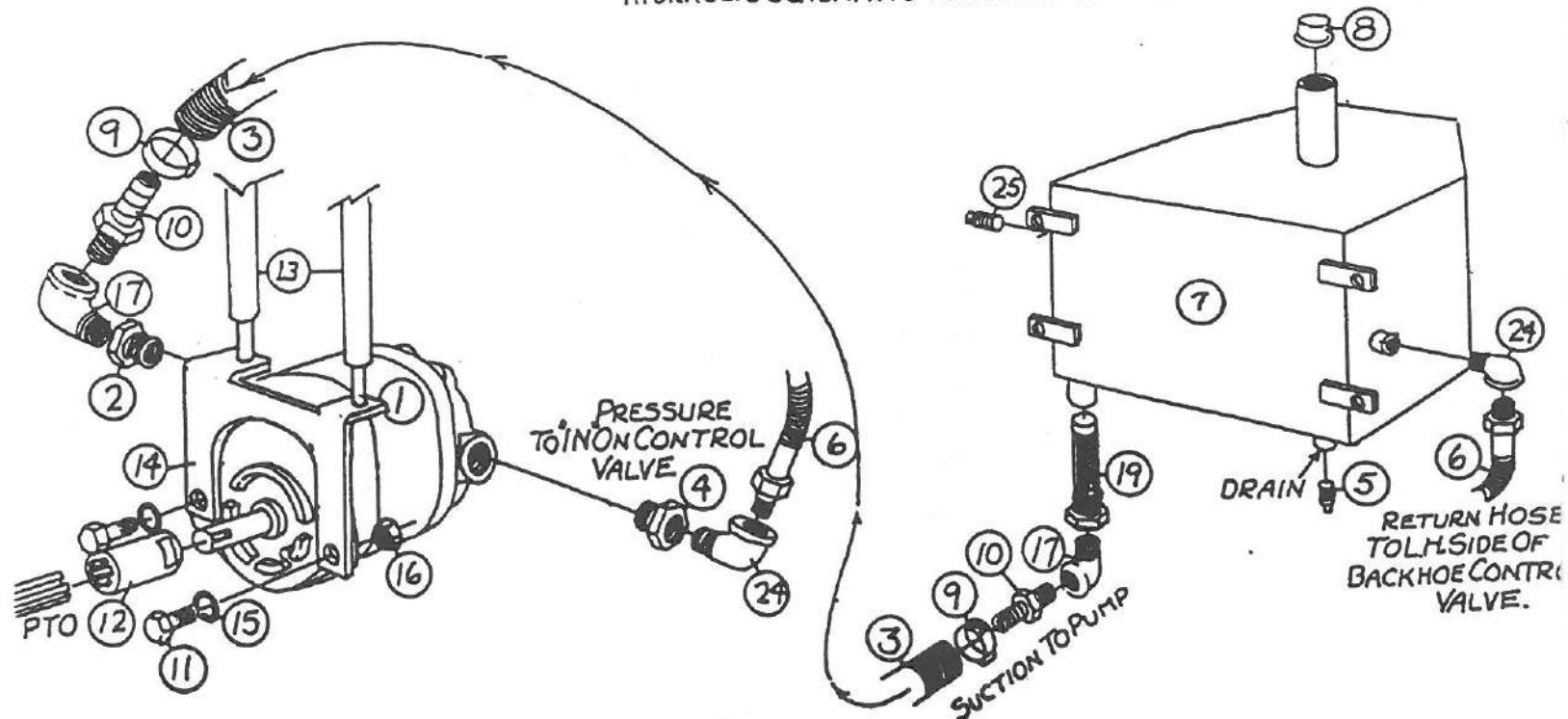
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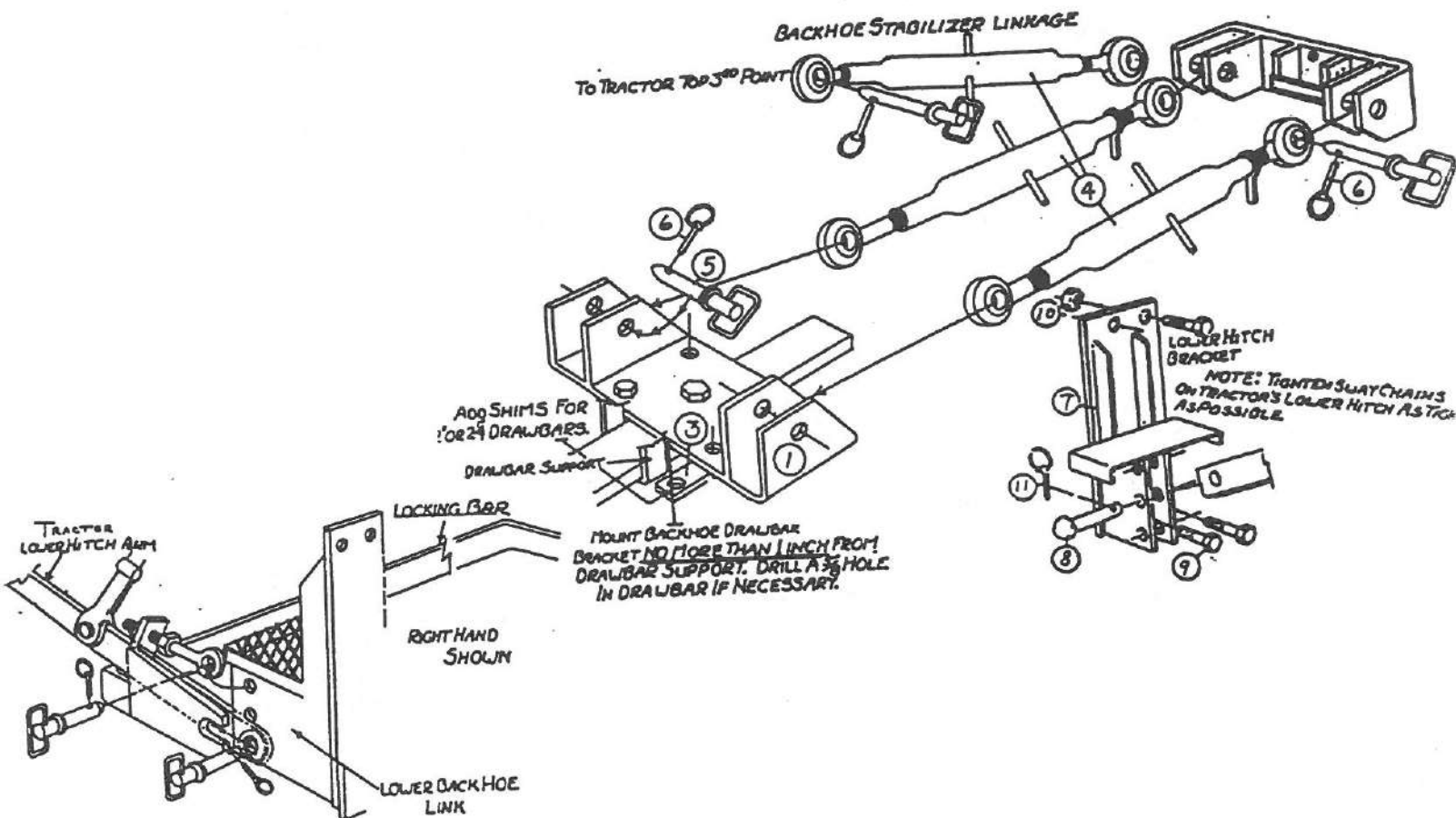
<u>ILL #</u>	<u>Quantity</u>	<u>Part #</u>	<u>Description</u>
1	1	BMS215	Seat assembly
2	1	BMS13018	Seat Pivot Base
3	1	SBT2049	1/2" x 3 1/2" Capscrew
4	1	SNT2060	1/2" Locknut
5	2	BCY13019	Swing Cylinder 2-1/2" x 10"
6	1	SFT314	RH Cushion Valve
7	1	SFT313	LH Cushion Valve
8	2	SFT308	C5506 x 6 90 degree El
9	2	SFT312	C5515 x 6 90 degree El
10	2	SHO11014	4P-6JFS-6JFS-16" Swing Cross over hoses
11	1	BMS13087	Adjustable Seat Pivot Tube
12	1	SBT2074	1/2" x 2" Capscrew
F	1	SHO14024	4P-6JICF-6JICF 90 Degree Tube L-34" Hose
L	1	SHO14024	4P-6JICF-6JICF 90 Degree Tube L-34" Hose
NI	4	SFT11734	1/4" Threaded Zerk
NI	1	SNT202062	1/2" Nut
NI	1	SWS10900	1/2" Lockwasher

Independent Hydraulic System BCP13093
B850

ILL NO.	QTY	Part No.	Description
1	1	SPP6242	388K Webster Pump (Side Outlet)
2	1	SFT2644	6405-20-16 Suction Fitting
3	1	SHO11140	16R-0-0-50" Lg. Hose
4	1	SFT2645	6405-16-8 Pressure Fitting
5	1	SFT2562	Drain Plug, 1/2
6	2	SHO11123	8P-8JFS-8-50" Lg Hose
7	1	BPP13073	Oil Reservoir
8	1	SPP2639	Breather Cap
9	2	SCL2640	Hose Clamp 1"
10	2	SFT13096	Barb Nipple 1"
11	2	SBT2047	Capscrew 1/2" x 2"
12	1	SPP6243	540,1 3/8 PTO Pump Drive Coupler w/1" Bore
14	1	SPP12952	Torque Bar For Webster 388K Pump
15	2	SWS2061	Lockwasher 1/2"
16	2	SNT2062	Nuts 1/2"
17	2	SFT2529	90 Degree Street Elbow, 1"
18	1	SBT2040	Capscrew 3/8 x 1-1/2
19	1	SPP6230	Filter
20	1	SBT2026	Capscrew 3/8" 2 1/4"
21	3	SWS2034	Flatwasher 3/8"
22	2	SNT2031	Nut, 3/8"
23	2	SWS2033	Lockwasher 3/8"
24	1	SFT2527	90 Degree Street El 1/2"
25	1	SFT2502	Level Plug, 3/8"
NI	4	SBT10820	Capscrew 5/16" x 1" GR 8
NI	4	SNT12434	Locknuts 5/16"

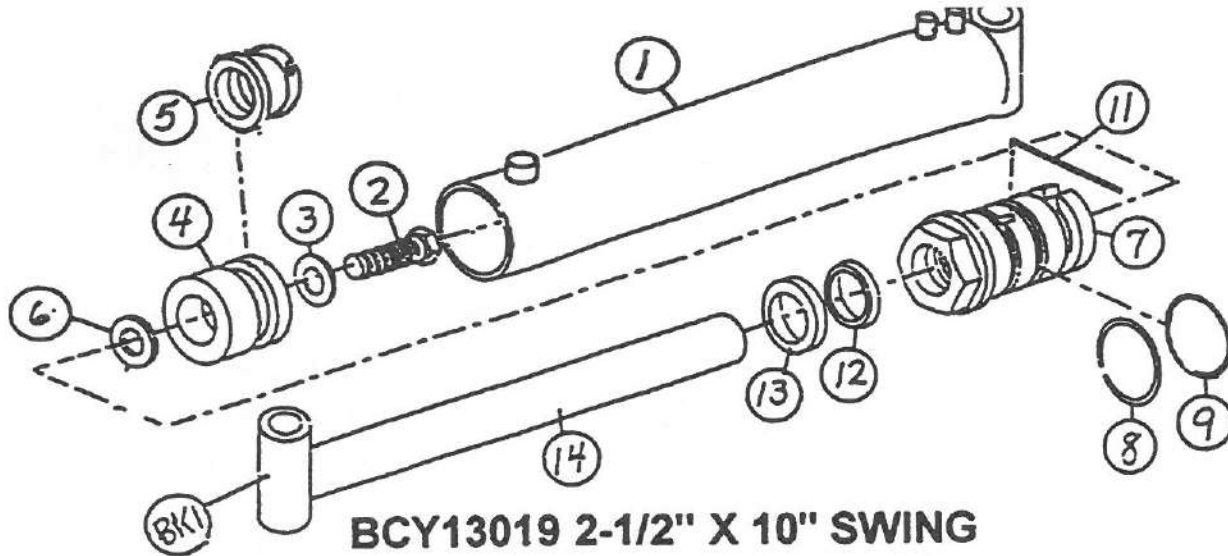
HYDRAULIC SCHEMATIC FOR B51 BACKHOE





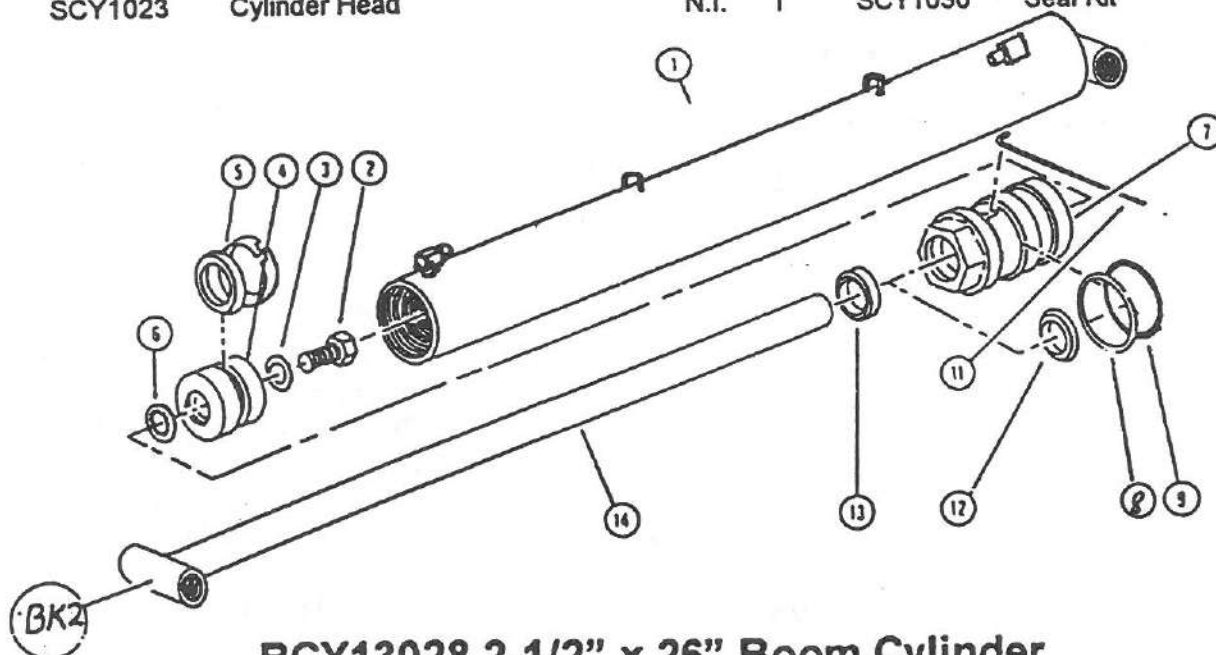
OPTIONAL - LOCKING BAR MOUNT KIT-B-851 SHOWN

<u>ILL NO.</u>	<u>QTY</u>	<u>Part No.</u>	<u>Description</u>
1	1		Tractor Drawbar Bracket
2	1		Tractor Third Point Link
3	2		Width Shim For Drawbar Bracket
4	2		Adjustable Linkage
5	5	SPN13077	1" X 5 3/4" PIN CAT 2 3RD POINT PIN
6	7	SPN11558	1/4" Lynch Pin
7	1	BMT13075	L.H. Lower Hitches Assembly (SHOWN)
7	1	BMT13074	R.H. Lower Hitch Assembly
8	2	SPN13084	7/8" x 5-1/4" Hitch Pin
9	8	SBT2099	Grade 8, 3/4" X 2 1/2" Capscrew
10	8	SNT13089	3/4" Locknut
NI	2	SWS2104	3/4" Flatwasher
NI	2	SBT14007	3/4" X 2-1/2" X 3" Drawbar Brkt U-Bolt
NI	5	SNT2102	3/4" Nut
NI	1	SNT2086	5/8" Nut
NI	1	SWS2089	5/8" Flatwasher
NI	5	SNT10584	3/4" Jam nut
NI	1	SNT10435	5/8" Jam Nut
NI	1	SBT10263	3/4" x 3 1/2" Capscrew
NI	1	SBT2073	5/8" x 3-1/2" Capscrew



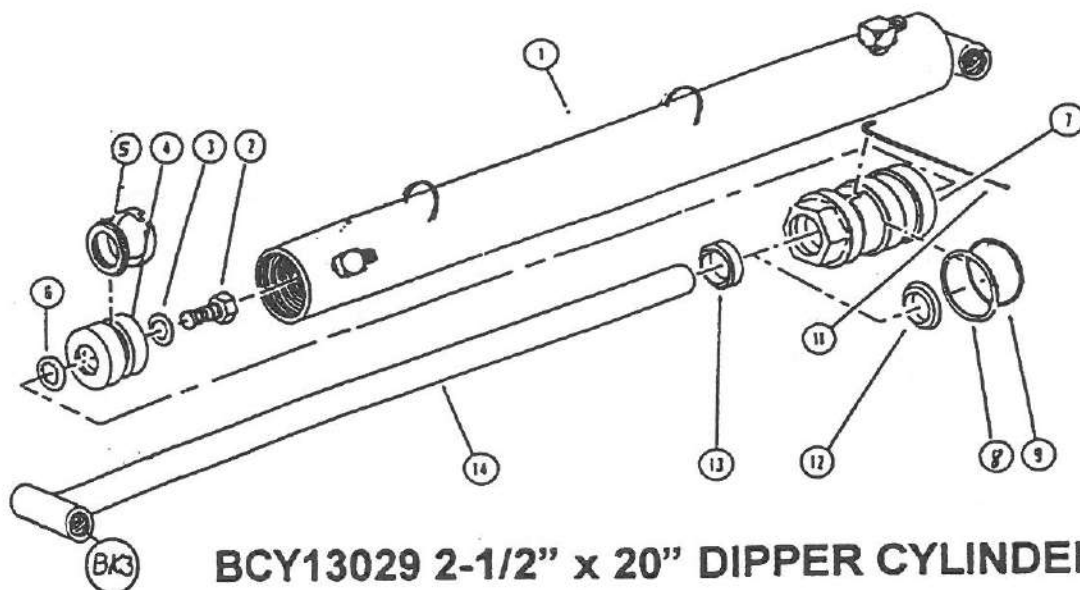
BCY13019 2-1/2" X 10" SWING

ILL NO.	QTY	PART NO.	DESCRIPTION	ILL NO.	QTY	PART NO.	DESCRIPTION
1	1	SCY13062	Barrel Assembly	8	1	SCY1070	Back Up Rings
2	1	SBT1017	Capscrew, 7/8"	9	1	SCY1024	O'Ring
3	1	SCY1018	Dyna Seal, 7/8"	11	1	SCY1036	Lockwire
4	1	SCY356	Piston	12	1	SCY1025	Rod Seal
5	1	SCY1019	Piston Seal	13	1	SCY1027	Rod Wiper
6	1	SWS245	Internal Lockwasher	14	1	SCY13063	Rod Assembly
7	1	SCY1023	Cylinder Head	N.I.	1	SCY1030	Seal Kit



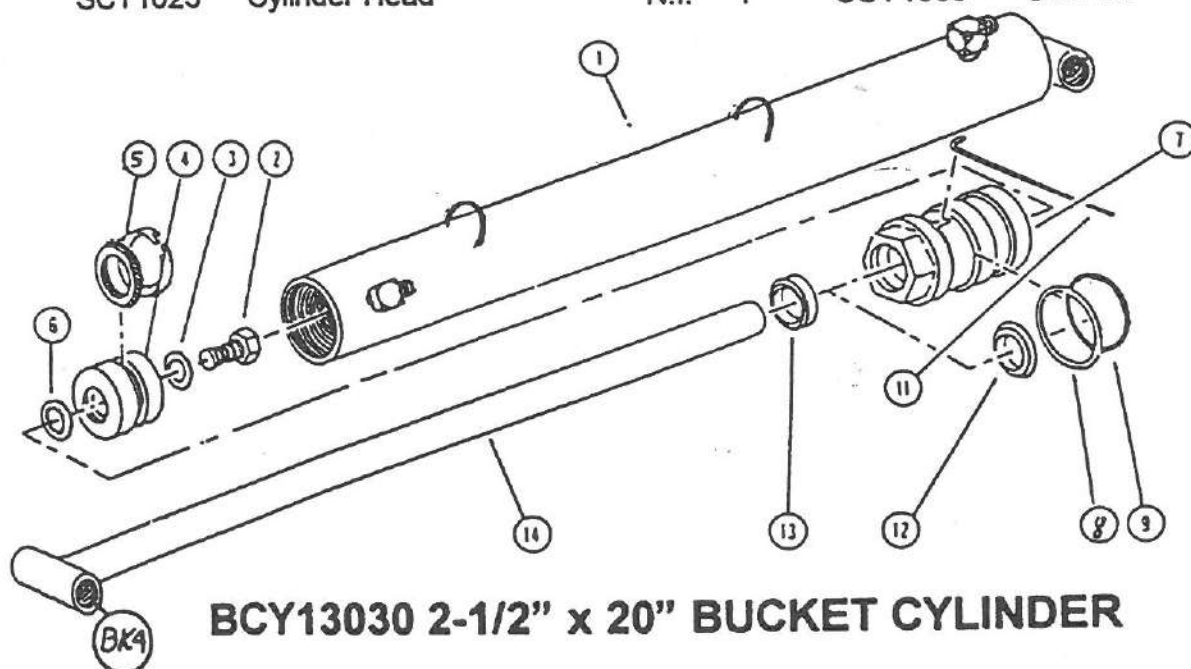
BCY13028 2-1/2" x 26" Boom Cylinder

ILL NO.	QTY	PART NO.	DESCRIPTION	ILL NO.	QTY	PART NO.	DESCRIPTION
1	1	SCY13064	Barrel Assembly	8	1	SCY1070	Back Up Rings
2	1	SBT1017	Capscrew, 7/8"	9	1	SCY1024	O'Ring
3	1	SCY1018	Dyna Seal, 7/8"	11	1	SCY1036	Lockwire
4	1	SCY1020	Piston	12	1	SCY1025	Rod Seal
5	1	SCY1019	Piston Seal	13	1	SCY1027	Rod Wiper
6	1	SWS245	Internal Lockwasher	14	1	SCY13065	Rod Assembly
7	1	SCY1023	Cylinder Head	N.I.	1	SCY1030	Seal Kit



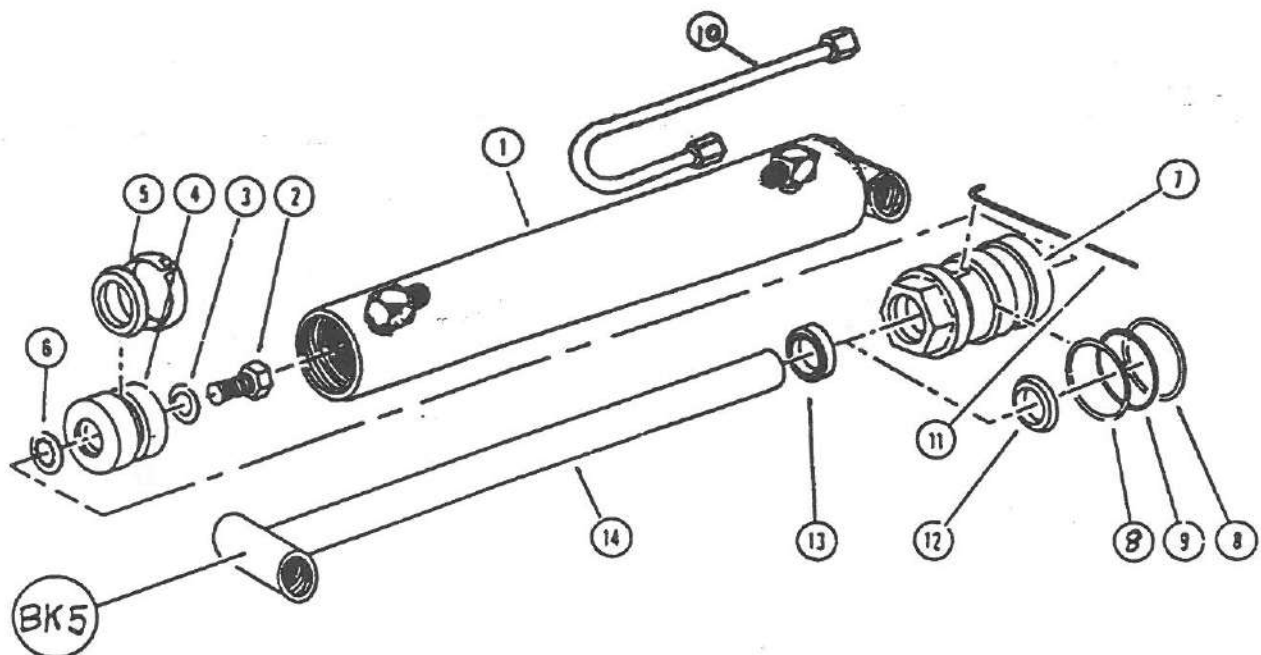
BCY13029 2-1/2" x 20" DIPPER CYLINDER

ILL NO.	QTY	PART NO.	DESCRIPTION	ILL NO.	QTY	PART NO.	DESCRIPTION
1	1	SCY13070	Barrel Assembly	8	1	SCY1070	Back Up Rings
2	1	SBT1017	Capscrew, 7/8"	9	1	SCY1024	O'Ring
3	1	SCY1018	Dyna Seal, 7/8"	11	1	SCY1036	Lockwire
4	1	SCY1020	Piston	12	1	SCY1025	Rod Seal
5	1	SCY1019	Piston Seal	13	1	SCY1027	Rod Wiper
6	1	SWS245	Internal Lockwasher	14	1	SCY13063	Rod Assembly
7	1	SCY1023	Cylinder Head	N.I.	1	SCY1030	Seal Kit



BCY13030 2-1/2" x 20" BUCKET CYLINDER

ILL NO.	QTY	PART NO.	DESCRIPTION	ILL NO.	QTY	PART NO.	DESCRIPTION
1	1	SCY13066	Barrel Assembly	8	1	SCY1070	Back Up Rings
2	1	SBT1017	Capscrew, 7/8"	9	1	SCY1024	O'Ring
3	1	SCY1018	Dyna Seal, 7/8"	11	1	SCY1036	Lockwire
4	1	SCY1020	Piston	12	1	SCY1025	Rod Seal
5	1	SCY1019	Piston Seal	13	1	SCY1027	Rod Wiper
6	1	SWS245	Internal Lockwasher	14	1	SCY13067	Rod Assembly
7	1	SCY1023	Cylinder Head	N.I.	1	SCY1030	Seal Kit



BCY13015 Folding and Stabilizer Cylinder 2-1/2" x 13"
For Model B851

<u>ILL NO.</u>	<u>QTY</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>ILL NO.</u>	<u>QTY</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	SCY13068	Barrel Assembly	8	1	SCY1070	Back Up Rings
2	1	SBT1017	Capcrew, 7/8"	9	1	SCY1024	O'Ring
3	1	SCY1018	Dyna Seal, 7/8"	10	1	SCY11728	Steel Oil Line
4	1	SCY1020	Piston	11	1	SCY1036	Lockwire
5	1	SCY1019	Piston Seal	12	1	SCY1025	Rod Seal
6	1	SWS245	Internal Lockwasher	13	1	SCY1027	Rod Wiper
7	1	SCY1023	Cylinder Head	14	1	SCY13069	Rod Assembly
				N.I.	1	SCY1030	Seal Kit

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Kelley

FARM EQUIPMENT