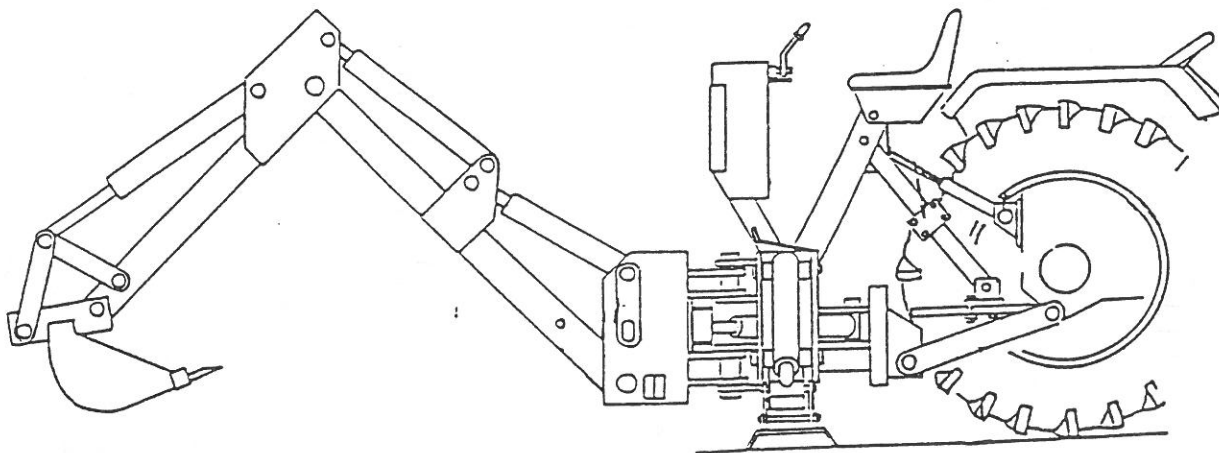


Kelley

B 15

BACK-HOE

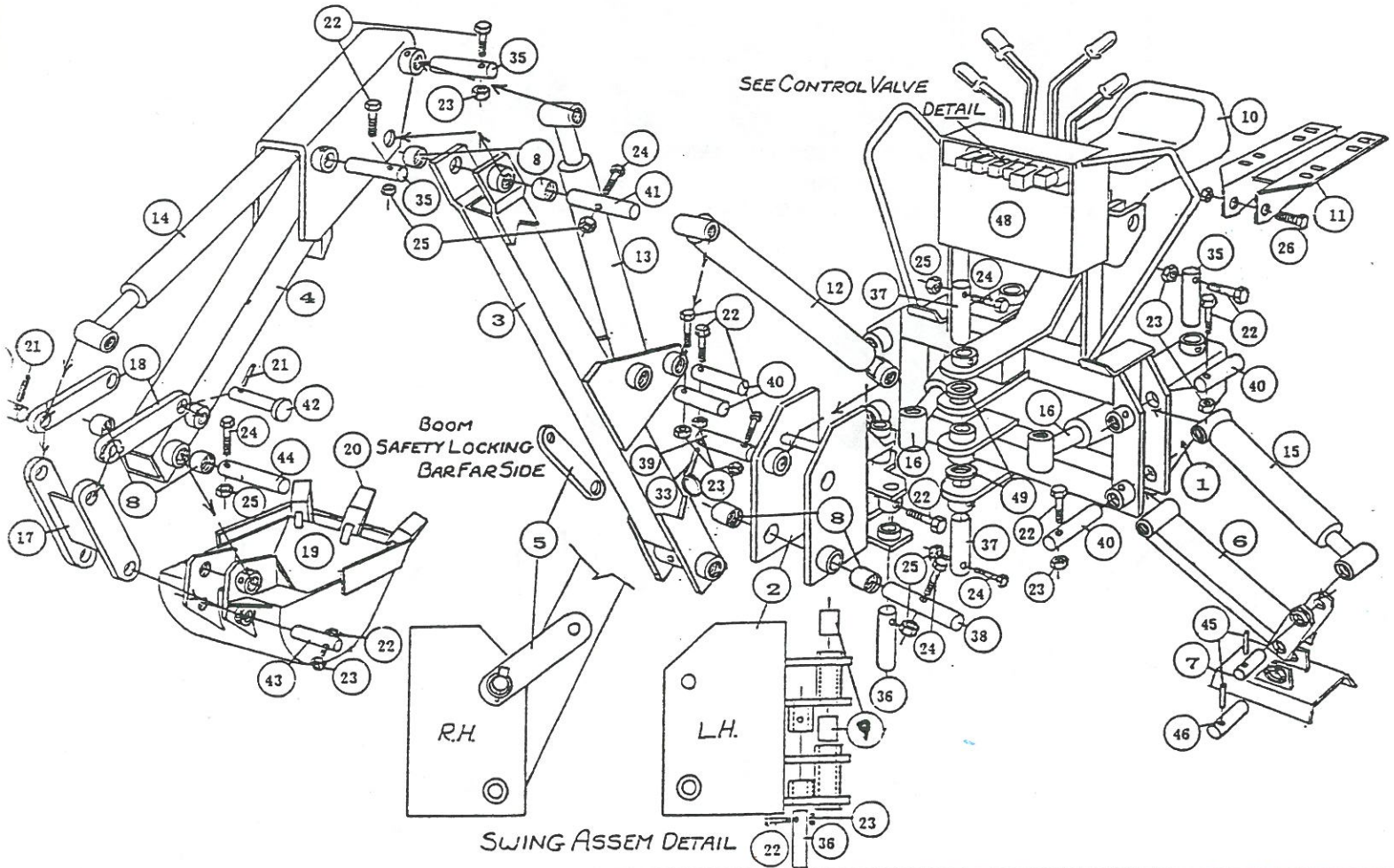
Parts Manual



KELLEY MANUFACTURING CORPORATION

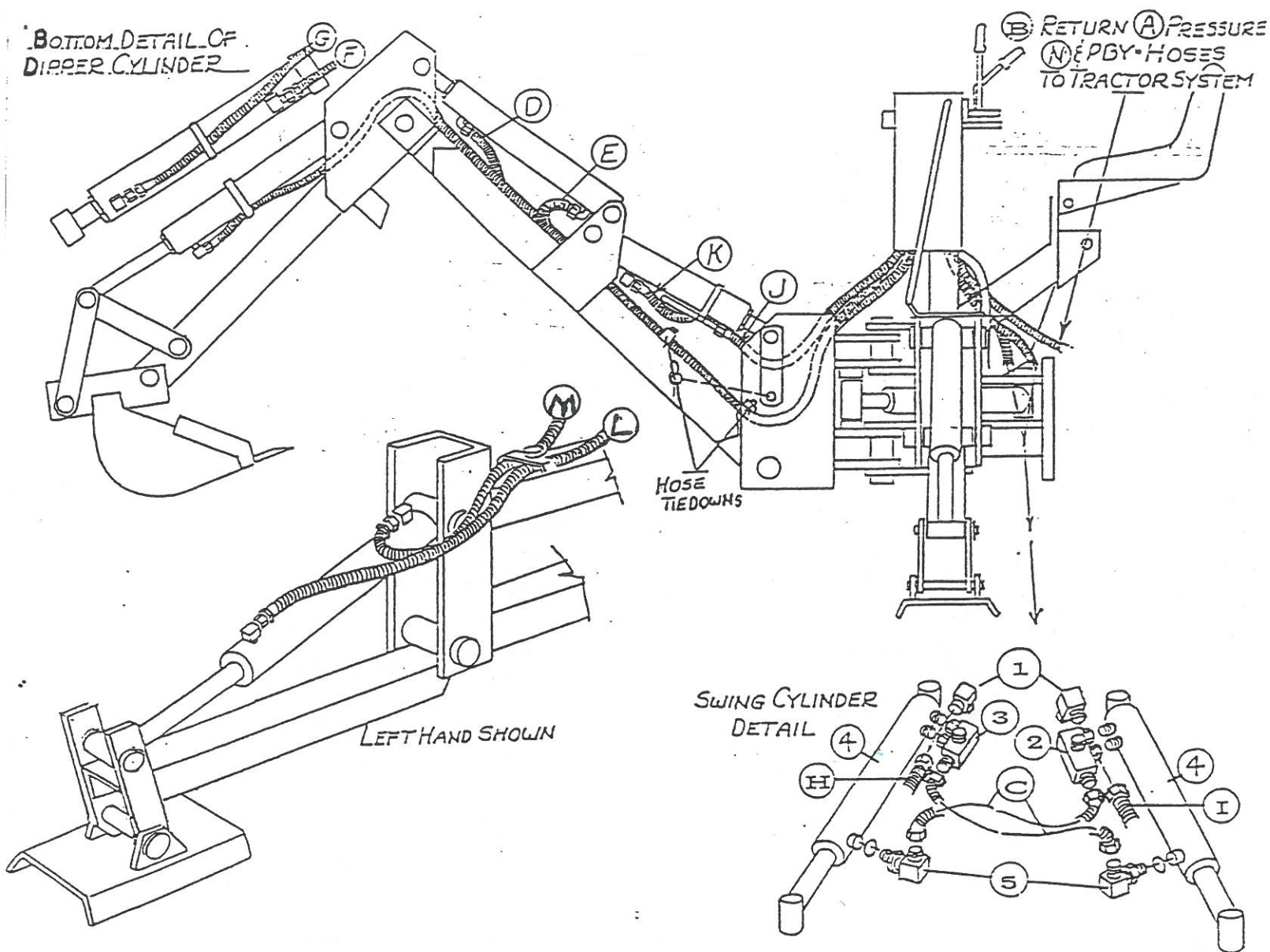
PO BOX 276 • 131 PROGRESSIVE DRIVE • OTTOVILLE, OHIO 45876 • PHONE 419-453-5539 • FAX 419-453-2278

KELLEY B15 BACKHOE PARTS LIST



ILL	QTY	PART NO.	DESCRIPTION
1	1	BMF12676	Main Frame Weld Assy B15
2	1	BMF12677	Swing Mast Weld Assy
3	1	BMF12678	Boom Weld Assy
4	1	BMF12679	Dipper Stick Assy
5	1	BMF12680	Boom Lock
6	2	BMF11609	Stabilizer Arm (Standard)
6	2	BMF12681	Stabilizer Arm (Pickup Model)
7	2	BMF11610	Stabilizer Pad (standard)
7	2	BMF12682	Stabilizer Pad (Pickup Model)
8	6	SFT10950	Bushing, 1 1/4" x 1"
9	2	SFT10978	Bushing, 1 1/2" x 1 1/2"
10	1	BMS12510	Seat
11	1	BMS12683	Seat Base
12	1	BCY12684	BOOM Cylinder
13	1	BCY12685	DIPPER Cylinder
14	1	BCY12686	BUCKET Cylinder
15	2	BCY12687	STABILIZER Cylinder
16	2	BCY 302	SWING Cylinder
17	1	BMF12688	Bucket Link
18	2	BMF12689	Cylinder Link
19		BBK----	Bucket, 9", 12" 15", 18"
20		BBK 168	Replaceable Tooth POINT
20		BBK 167	Bucket Tooth SHANK
20		BBK 192	Bucket Tooth, SHANK and POINT
21	6	SPN10530	Roll Pin, 5/16" x 2"
22	14	SBT10795	5/16" x 2" Bolt
23	14	SNT12434	5/16" Locknut
24	4	SBT12437	3/8" x 2 1/4" Bolt

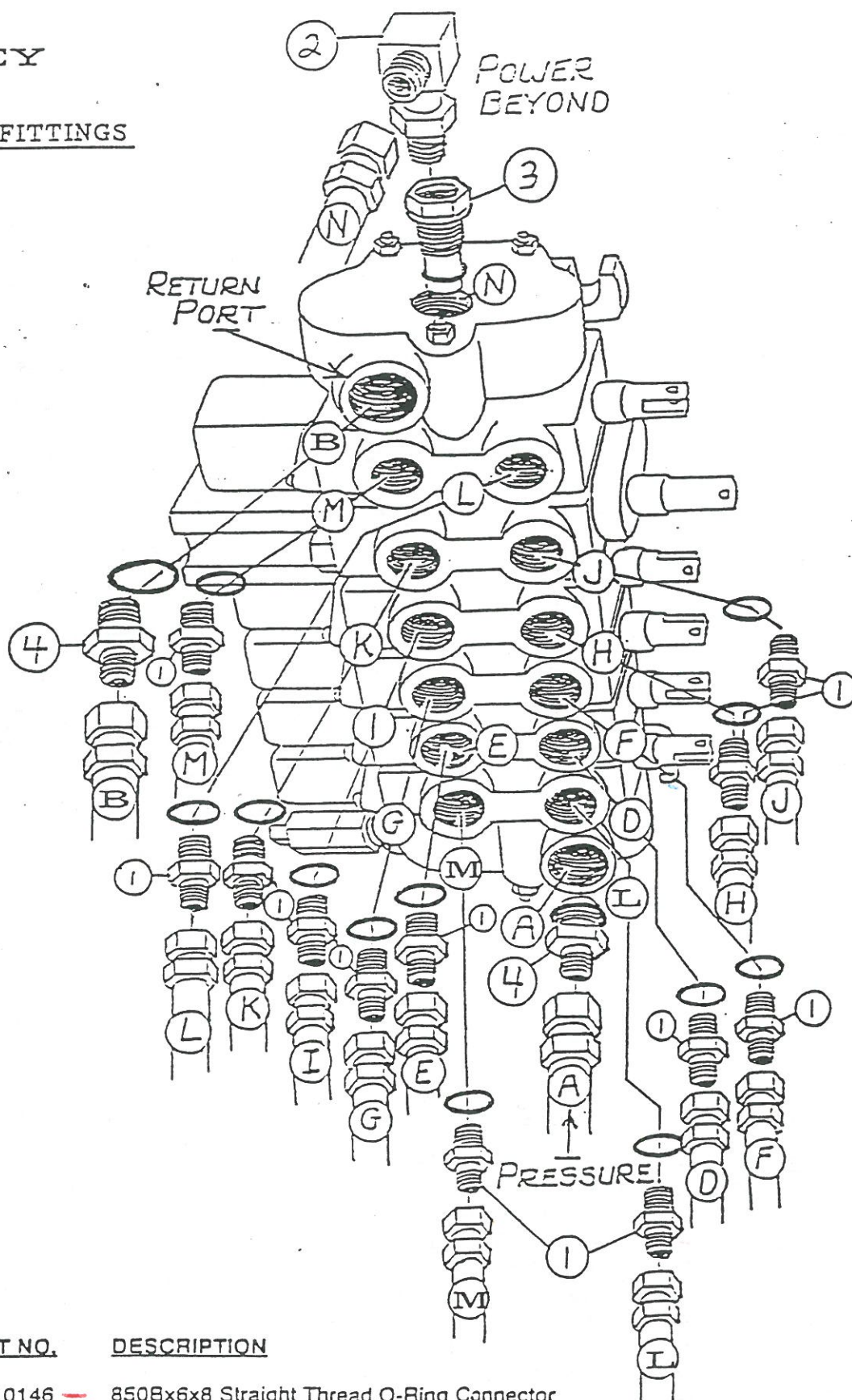
ILL	QTY	PART NO.	DESCRIPTION
25	4	SNT 2031	3/8" Nut
26	1	SBT 2050	1/2" x 3 1/2" Bolt
27	1	SNT 2060	1/2" Locknut
28	2	SBT 2021	3/8" x 3/4" Bolt
29	2	SWS 2033	3/8" Lockwasher
30	1	SBT 316	5/16" x 1 1/2" Bolt
31	4	SBT10502	Self Tapping Screw
32	2	SCL10892	Hose Hold Down Clamp
33	1	SPN11659	1/4" Lynch Pin
34	2	SPN 141	7/16" Lynch Pin
35	4	SPN10463	Pin, 1" x 5-3/4" Swing Cyl. Base, Dipper Cyl. Rod, Bucket Cyl. Base
36	2	SPN12690	Pin, 1" x 6-3/8" Swing Cyl. Rod
37	2	SPN12691	Pin, 1 1/4" x 5 1/4" Swing Pivot
38	1	SPN12692	Pin, 1 1/4" x 8-1/8" Boom Pivot
39	1	SPN12693	Pin, 1" x 7-1/8" Boom Cyl. Rod
40	6	SPN10520	Pin, 1" x 6 1/4" Boom Cyl. Base, Dipper Cyl. Base, Stabilizer
41	1	SPN12694	Pin, 1 1/4" x 7-3/8" Dipper Pivot
42	2	SPN12695	Pin, 1" x 7-1/16" Bucket Cyl. Rod. Bucket Linkage
43	1	SPN12696	Pin, 1" x 1-1/8" Bucket Link
44	1	SPN 130	Pin, 1 1/4" x 8-1/8" Bucket Pivot
45	2	SPN11603	Pin, 3/4" x 4 1/4", Stabilizer Cyl. Rod
46	2	SPN10027	Pin, 3/4" x 5 1/4", Stabilizer Pad
NI	2	SPN10453	Pin, 7/8" x 4-3/8" Hitch
47	2	SWS10952	Washer, 1-1/4" I.D.
48	1	BMS12697	Valve Cover
NI	4	SPN12575	Pins, 3/4" x 2 1/4", Drawbar



B15 Hoses & Fittings

<u>ILL</u>	<u>QTY</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
A&B	2	SHO12552	Hose 6P-50"-6-8JFS
C	2	SHO11014	Hose 4P-16"-6JFS-6JFS
D	1	SHO12698	Hose 4P-85"-6JFS-6JFS
E	1	SHO12699	Hose 6P-85"-6JFS-6JFS
F	1	SHO12700	Hose 6P-115"-6JFS-6JFS
G	1	SHO12701	Hose 4P-119"-6JM-6JFS
H&I	2	SHO10556	Hose 4P-29"-6JFS-6JFS
J	1	SHO12702	Hose 4P-64"-6JM-6JFS
K	1	SHO12703	Hose 6P-65"-6JM-6JFS
L	2	SHO12295	Hose 4P-46"-6JFS-6JFS
M	2	SHO12557	Hose 4P-42"-6JFS-6JFS
1	2	SFT 308	863B x 6 Elbow
2	1	SFT 313	LH Manifold Cushion
3	1	SFT 314	RH Manifold Cushion
4	2	BCY 302	Swing Cylinder
5	2	SFT 312	853B x 6 Elbow

KELLEY
B15
HOSES and FITTINGS



LL
 NO.

QTY.	PART NO.	DESCRIPTION
12	SFT10146 —	850Bx6x8 Straight Thread O-Ring Connector
2	1	SFT10066 853Bx8x10 Straight Thread O-Ring 90° Elbow
3	1	255049 Power Beyond Sleeve
4	2	SFT10079 — 850Bx8x10 Straight Thread O-Ring Connector
7	0	This Hose Must be supplied by Dealer, Varies with Tractor Models

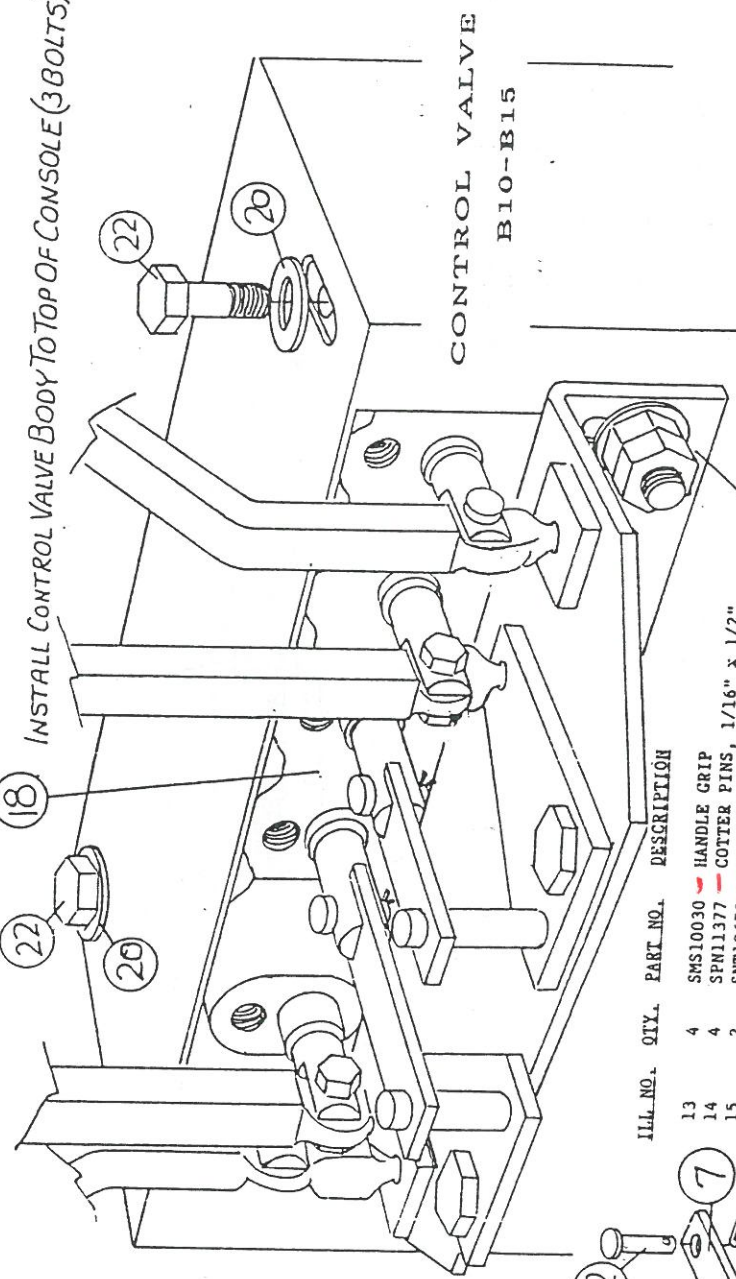
CONTROL VALVE

B10-B15

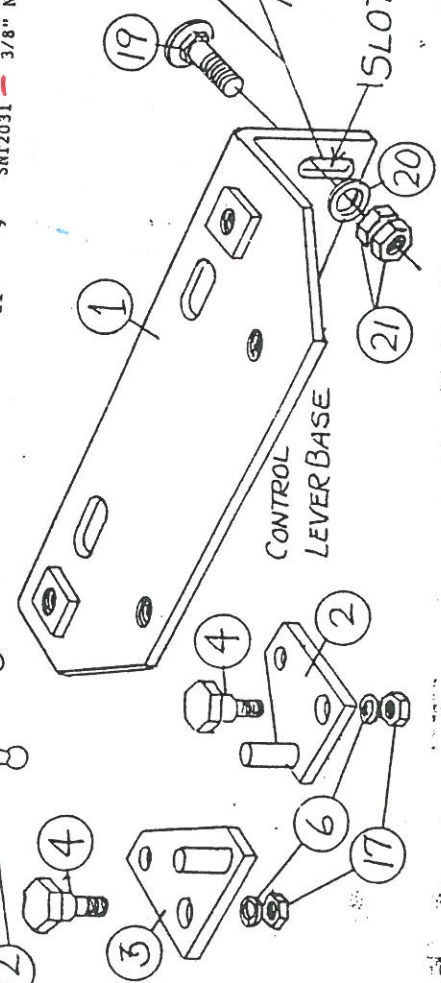
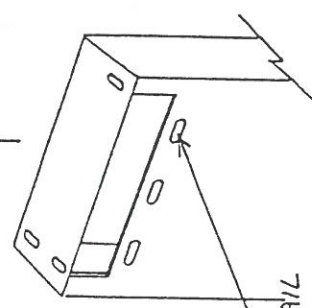
ILL. NO. QTY. PART NO. DESCRIPTION

1	1	BMS12869	CONTROL BASE NS (BUILT SINCE JAN 1, 1993)
2	1	BMS12667	RH CONTROL TRUNION
3	1	BMS12668	LH CONTROL TRUNION
4	2	SNT11374	SHOULDER BOLT 5/16" x 7/8"
5	3	SNT10819	5/16" x 5/8" CAPSCREW
6	5	SWS2019	5/16" LOCKWASHER
7	1	SMS12669	RH SHORT LINK
8	1	SMS12671	LH LONG LINK
9	2	BMS12672	CONTROL LEVER, STABILIZER
10	1	BMS12674	CONTROL LEVER, RH MAIN
11	1	BMS12675	CONTROL LEVER, LH MAIN
12	4	SPN11379	PINS, 1/4" x 3/4"

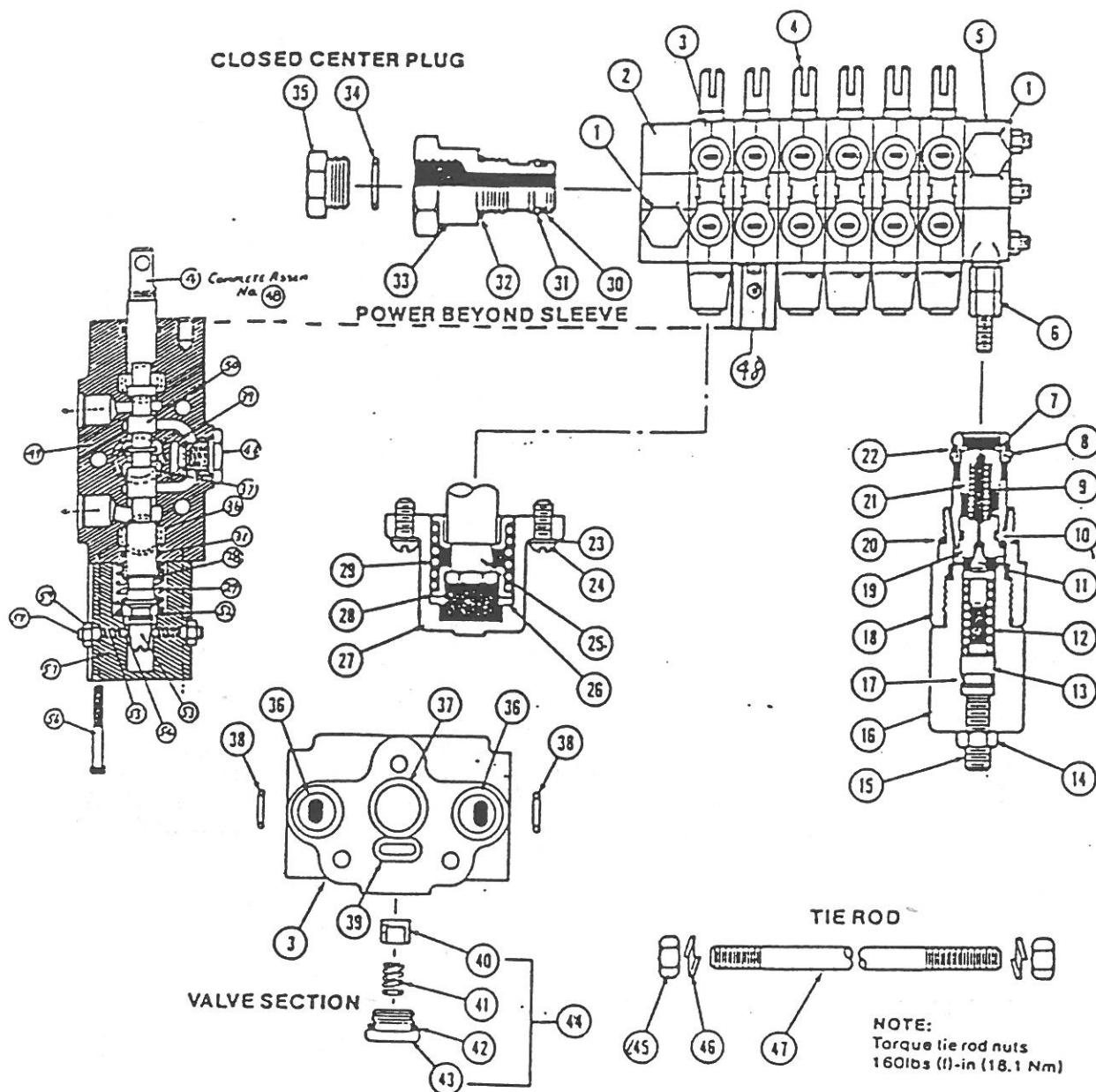
INSTALL CONTROL VALVE BODY TO TOP OF CONSOLE (3 BOLTS)



ILL. NO.	QTY.	PART NO.	DESCRIPTION
13	4	SMS10030	HANDLE GRIP
14	4	SPN11377	COTTER PINS, 1/16" x 1/2"
15	2	SNT12673	LOCKNUT, 1/4" NF
16	2	SET12664	1/4" x 1" NF BOLT
17	2	SNT2018	5/16" NC NUT
18	1	986734	RACINE VALVE WITH FLOAT
19	3	SET232	3/8 x 1 1/2" CARRIAGE BOLT
20	6	SWS2034	3/8" FLAT WASHERS
21	9	SNT2031	3/8" NUTS



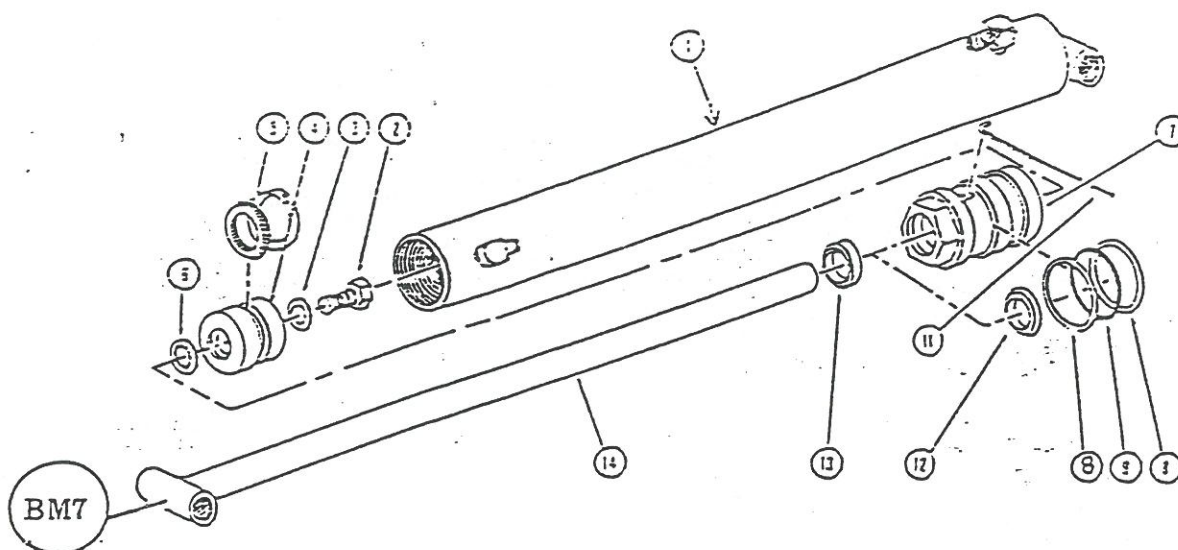
NOTE:
ALL SLOTTED HOLES FOR HORIZONTAL ADJUSTMENTS
OF CONTROLS &
SLOTTED FOR VERTICAL ADJUSTMENT.



RACINE SIX SECTION VALVE

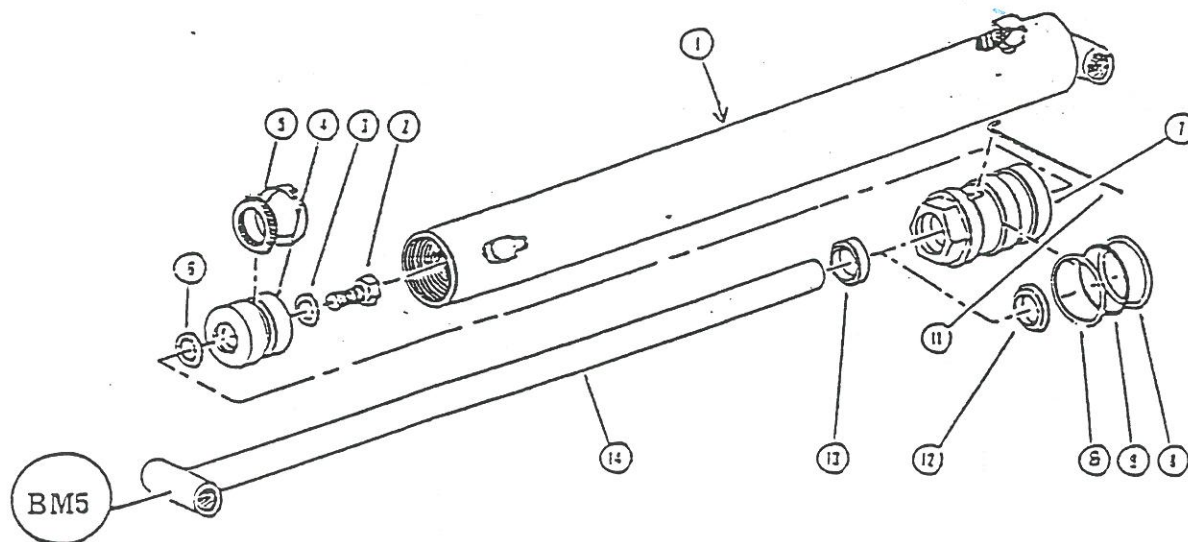
Ill. No.	Qty.	Part No.	Description
1	2	785038	#10 S.A.E. Plug Assembly
2	1	254009	Outlet Manifold Section With #10
3	5	254006	Valve Section With #8 Openings
4	6	255002	Female Spool End
5	1	254016	Inlet Manifold Section With #10
6	1	785058	Relief Valve Cartridge
7	1	410502	Snap Ring
8	1	490961	Back-up Ring
9	1	493785	Spring
10	1	407229	Seat O'Ring
11	1	255096	Poppet
12	1	493850	Spring
13	1	255145	Spring Seat
14	1	401009	Jam Nut
15	1	410540	Adjustment Screw
16	1	255146	Cartridge Body
17	1	401273	Spring Seat O'Ring
18	1	255042	Cartridge Body
19	1	255040	Seat
20	2	405393	Cartridge Body O'Ring
21	1	255041	Piston
22	1	406484	O'Ring
23	12	400905	Lockwasher
24	12	401603	Screw
25	6	255035	Spool End
26	6	255034	Spacer
27	6	254000	Cover
28	11	255013	Spring Retainer
29	6	410512	Spring

Ill. No.	Qty.	Part No.	Description
30	1	406460	O'Ring
31	1	490975	Back-up Ring
32	1	405688	O'Ring
33	1	255049	Power Beyond Sleeve
34	1	405393	O'Ring
35	1	355099	#8 Plug
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	405688	O'Ring
43	6	255020	Plug
44	6	785011	Load Check Assembly
45	6	401033	Tie Rod Nut
46	6	400908	Tie Rod Lockwasher
47	3	255162	Tie Rod
48	1	981122	Boom Section W/Float Position
49	1	254242	Valve Body
50	1	255257	Spool, Float
51	1	255258	Spring Retainer
52	1	255305	Spool End, Float
53	2	401072	Ball, Detent
54	2	410560	Spring, Detent
55	2	402964	Screw, Allen Head
56	2	254235	Lower Extension
57	2	410540	Screw, Allen Head
58	2	401032	Nut



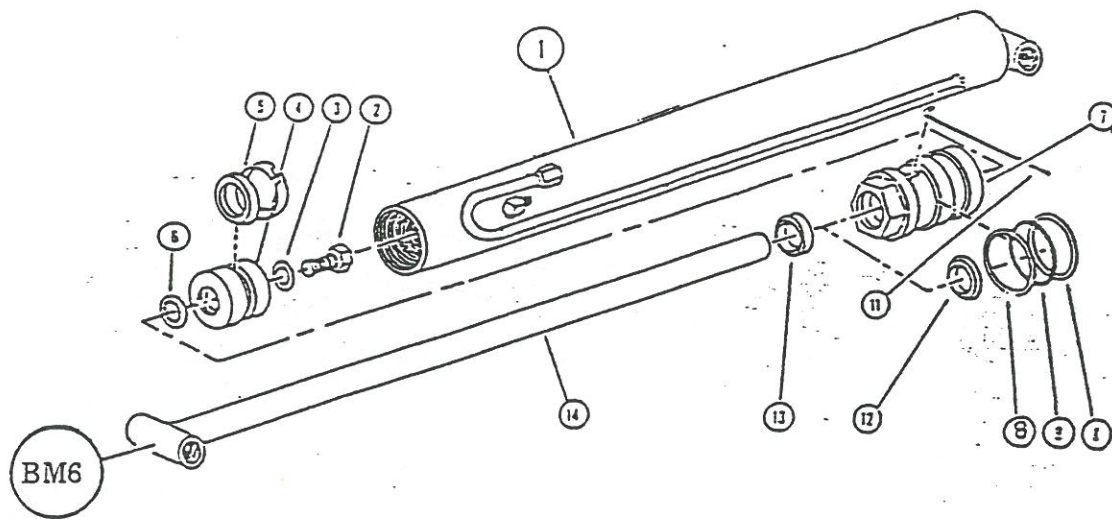
BCY 12685 Dipper Cylinder 2-1/2" x 14"

ILL. NO.	QTY.	PART NO.	DESCRIPTION	ILL. NO.	QTY.	PART NO.	DESCRIPTION
1	1	SCY12708	BARREL ASSEMBLY	8*	2	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	SCY10709	ROD ASSEMBLY
7	1	SCY1023	CYLINDER HEAD		1	SCY1030	SEAL KIT



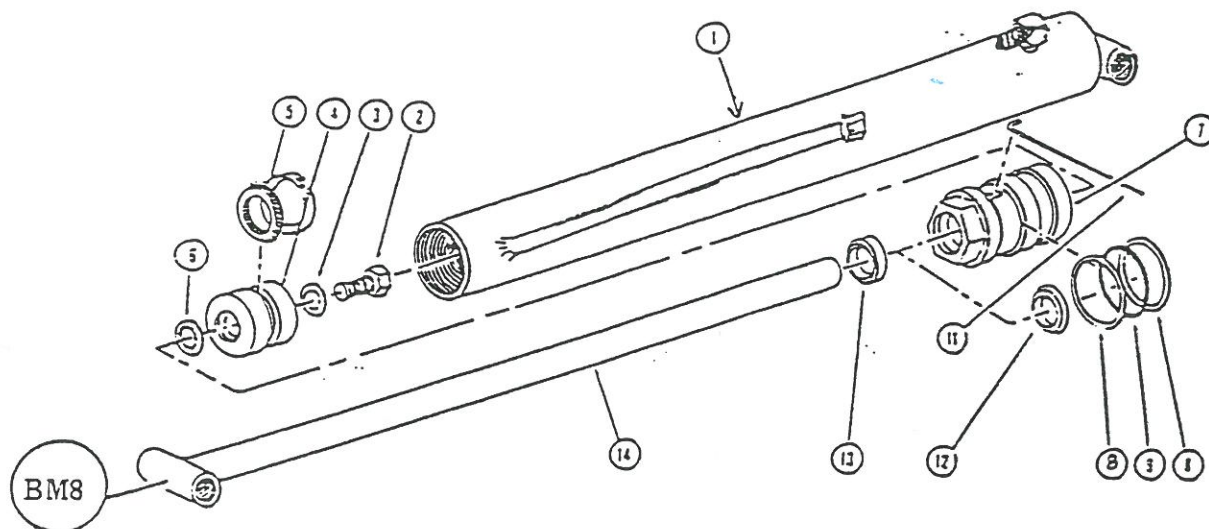
BCY 12687 Stabilizer Cylinder 2 1/2" x 10"

ILL. NO.	QTY.	PART NO.	DESCRIPTION	ILL. NO.	QTY.	PART NO.	DESCRIPTION
1	1	SCY12710	BARREL ASSEMBLY	8*	2	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	SCY12711	ROD ASSEMBLY
7	1	SCY1023	CYLINDER HEAD		1	SCY1030	SEAL KIT



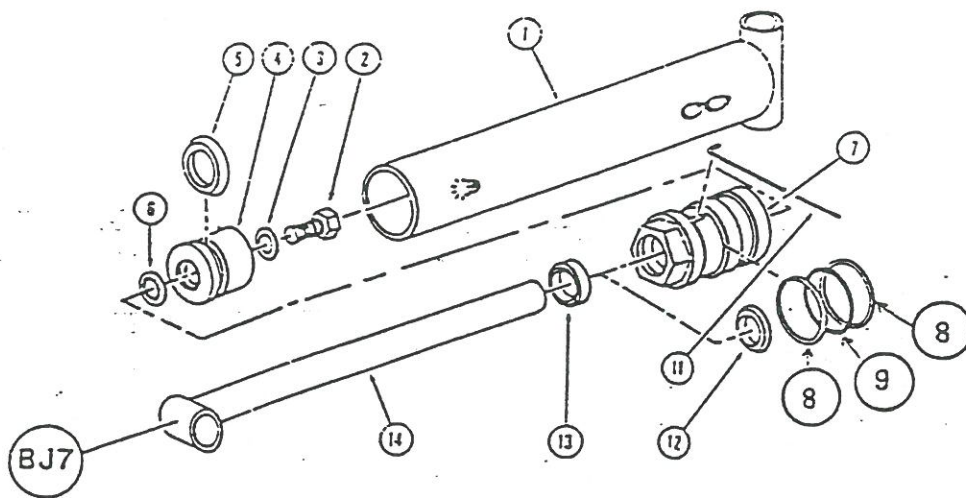
BCY 12684 BOOM Cylinder 2½" x 20"

ILL. NO.	QTY.	PART NO.	DESCRIPTION	ILL. NO.	QTY.	PART NO.	DESCRIPTION
1	1	SCY12706	BARREL ASSEMBLY	8*	2	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	SCY12707	ROD ASSEMBLY
7	1	SCY1023	CYLINDER HEAD		1	SCY1030	SEAL KIT



BCY 12686 Bucket Cylinder 2½" x 14"

LL. NO.	QTY.	PART NO.	DESCRIPTION	ILL. NO.	QTY.	PART NO.	DESCRIPTION
1	1	SCY12704	BARREL ASSEMBLY	8*	2	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	SCY12705	ROD ASSEMBLY
7	1	SCY1023	CYLINDER HEAD		1	SCY1030	SEAL KIT

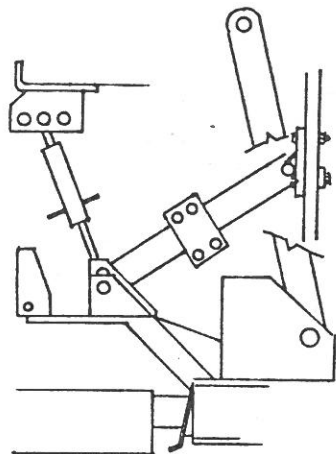
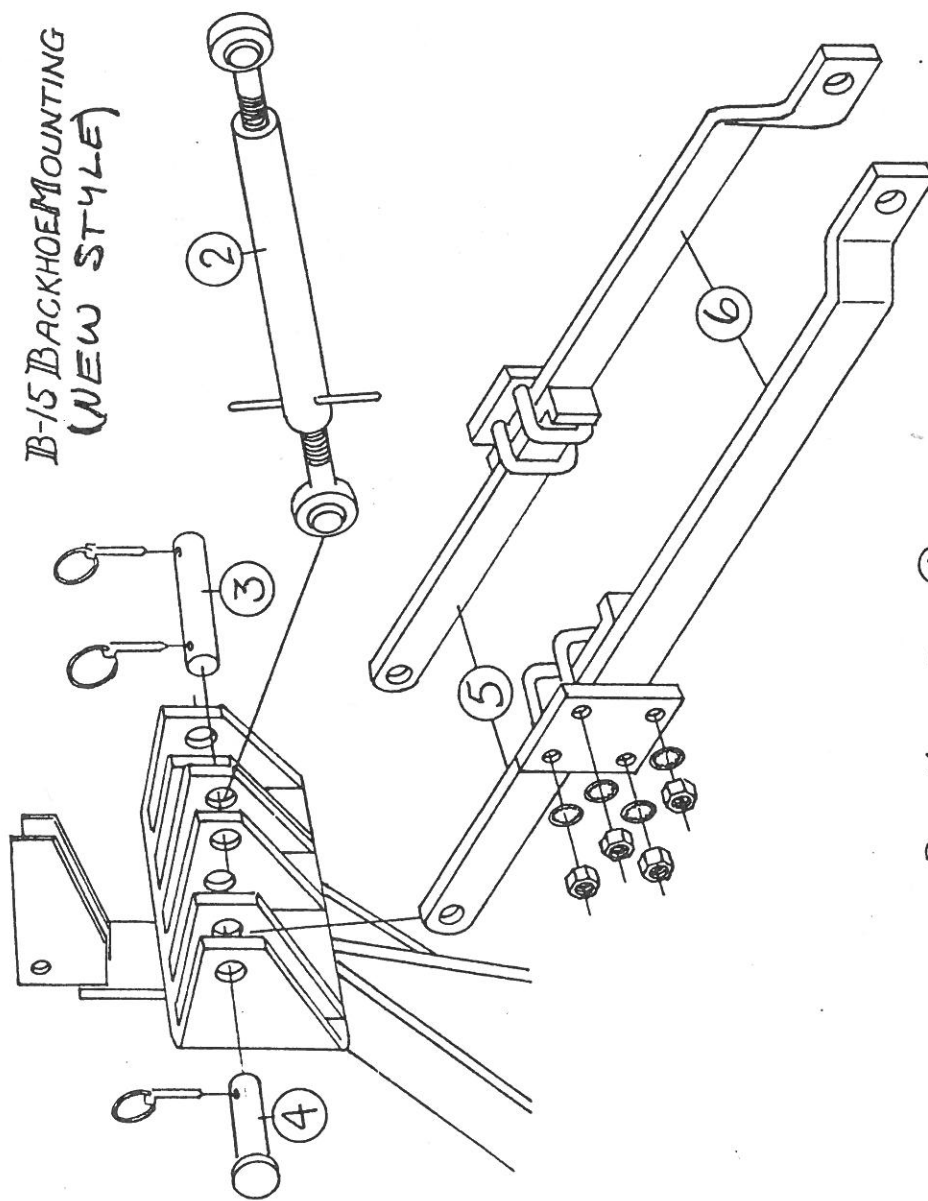


BCY 302 SWING Cylinder 2-1/2" x 10"

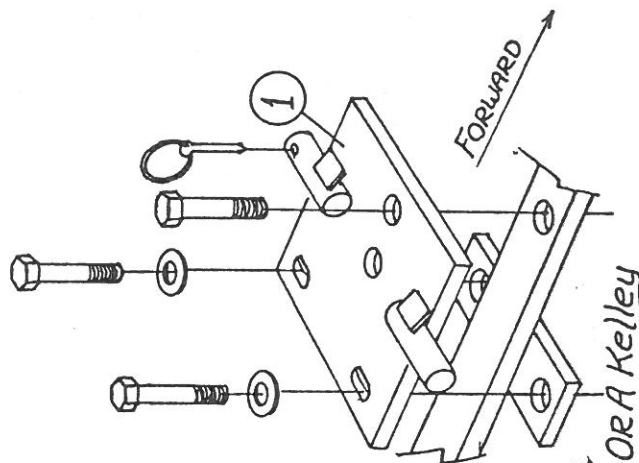
ILL. NO.	QTY.	PART NO.	DESCRIPTION
1	1	SCY1083	BARREL ASSEMBLY
2	1	SBT1017	CAPSCREW, 7/8"
3*	1	SCY1018	DYNA SEAL, 7/8"
4	1	SCY1020	PISTON
5*	1	SCY1019	PISTON SEAL
6*	1	SWS245	INTERNAL LOCKWASHER
7	1	SCY1023	CYLINDER HEAD

ILL. NO.	QTY.	PART NO.	DESCRIPTION
8*	2	SCY1070	BACK-UP RINGS
9*	1	SCY1024	O'RING
11*	1	SCY1036	LOCKWIRE
12*	1	SCY1025	ROD SEAL
13*	1	SCY1027	ROD WIPER
14	1	SCY1082	ROD ASSEMBLY
	1	SCY1030	SEAL KIT

*B-15 BACKHOE MOUNTING
(NEW STYLE)*



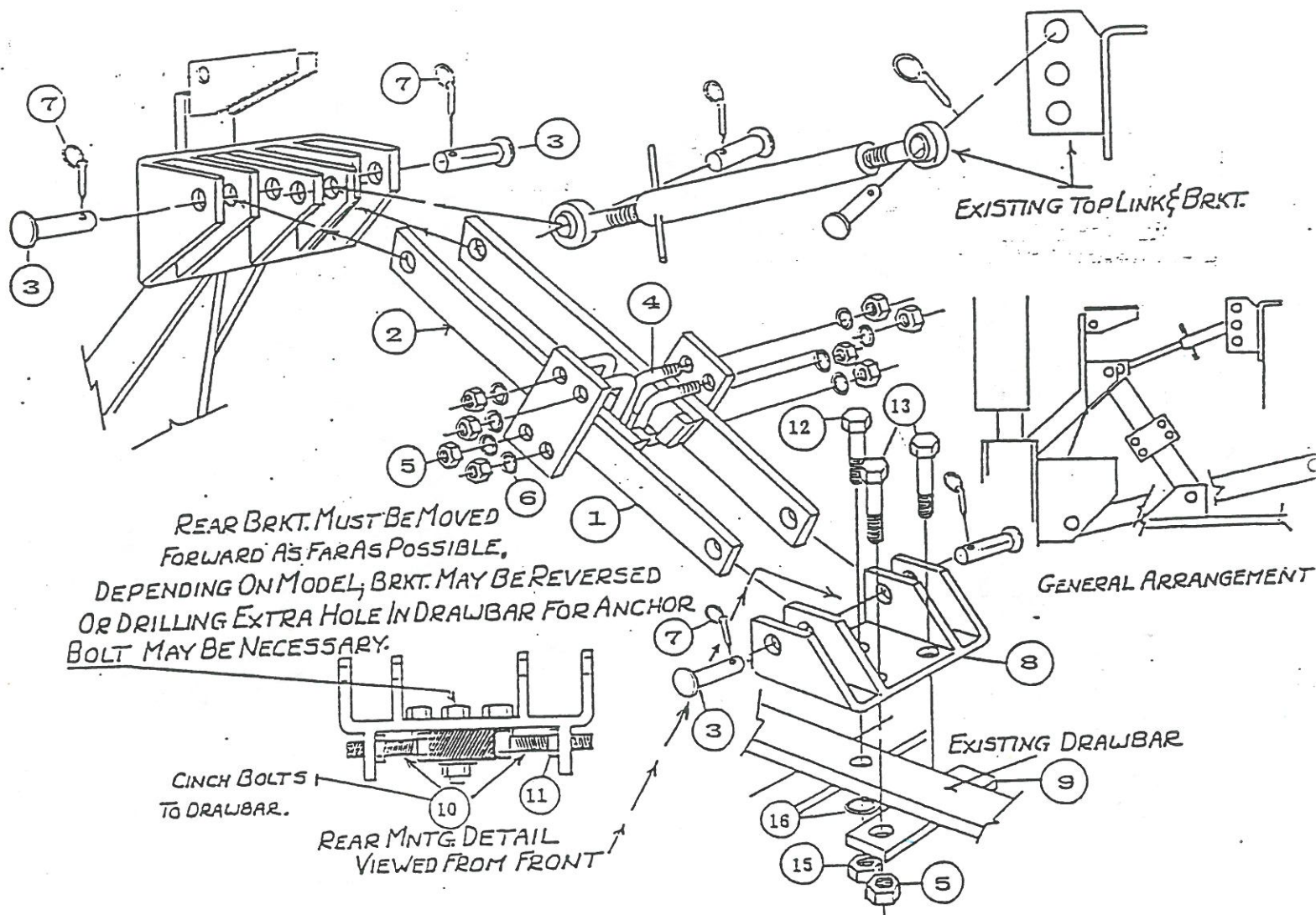
GENERAL ARRANGEMENT



REAR MOUNT BRKT. ① MUST BE
MOVED FORWARD AS FAR AS POSSIBLE. DEPENDING
ON TRACTOR, BRKT. MAY BE REVERSED OR IT MAY BE
NECESSARY TO DRILL AN EXTRA HOLE FOR ANCHOR BOLT
THROUGH DRAWBAR.

NOTE:

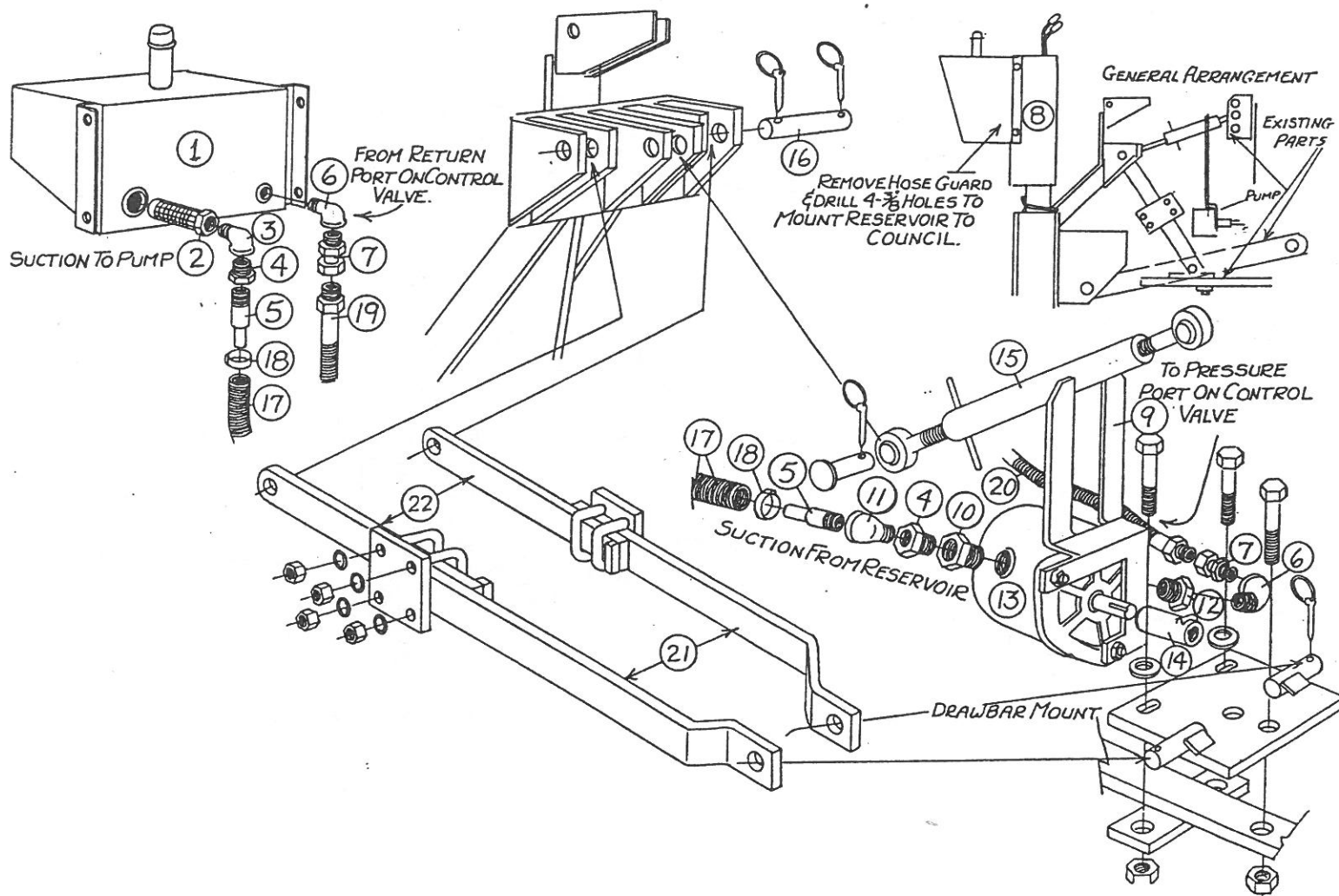
CAUTION: CHECK TRACTOR DRAWBAR BAIL FOR STRENGTH THERE SHOULD
BE AT LEAST FOUR 14MM CAP SCREWS HOLDING DRAWBAR TO TRACTOR HOUSING.
DO NOT MOUNT ON TRACTOR WITH ALUMINUM HOUSING UNLESS EXTRA BRACING OR A Kelley
FRAME KIT IS USED.



KELLEY B15 BACKHOE STABILIZER MOUNT KIT

PARTS LIST

ILL	QTY	PART NO.	DESCRIPTION
1	2	BMS12712	LOWER LINK HITCHES
2	2	BMS12713	TOP LINKS
3	4	SPN12575 -	Pin 3/4" x 2 1/2" W/washer
4	4	SBT12716 -	U-Bolt, 5/8" x 2 1/2" x 2-3/4"
5	10	SNT 2086 -	5/8" Nuts
6	10	SWS 2088 -	5/8" Lockwasher
7	4	SPN11659 -	Lynch Pin, 1/4"
8	1	BMS12714	TRACTOR HITCH ASSY.
9	1	BMS12715	CLAMP PLATE
10	2	SBT10486 -	Bolt, 3/4" x 3 1/2" All Threads
11	2	SNT10584 -	3/4" Jam Nut
12	1	SBT10263 -	3/4" x 3 1/2" Bolt
13	2	SBT 2074	5/8" x 4" Bolt
14	4	SWS 2089 -	5/8" Flatwasher
15	1	SNT 2102 -	3/4" Nut
16	1	SWS 2103 -	3/4" Lockwasher



B-15 HYDRAULIC PUMP SYSTEM INSTRUCTIONS

A. Starting with the reservoir oil tank install on suction side of the reservoir in the following sequence: (#2) suction screen, (#3) 1" 90 degree street el, (#4) 1" to 3/4" reducer bushing, (#5) machined 3/4" x 4" nipple. Then install on return side of reservoir in the following sequence: (#6) 1/2" street el, (#7) 1/2" M.P.T. to 3/8" F.P.T. swivel.

B. Remove backhoe hose guard (#8) and drill four 3/8" holes through 1/4" hose guard holes. Install the tank to the front side of the backhoe control counsel with four 5/16" x 1" capscrews, nuts and lockwashers.

C. Install the (#9) pump torque bar to (#13) the pump as shown with the suction inlet in the position as shown. Install on the suction side of pump in the following sequence: (#10) 1-1/4" O-ring to 1" adaptor fitting, (#4) 1" to 3/4" reducer bushing, (#11) 3/4" street el, (#5) machined 3/4" x 4" nipple. Install on the pressure side of pump in the following sequence: (#12) 1" O-ring to 1/2" M.P.T., (#6) 1/2" street el, (#7) 1/2" M.P.T. to 3/8" F.P.T. swivel. Install (#14) P.T.O. pump coupler to pump using 1/4" square key. Tighten set screws on coupler.

D. Back the tractor as close as possible to backhoe. Connect (#15) third point link from tractor to backhoe using (#16) the third point pin. Connect pump to tractor P.T.O.

E. Connect (#17) 50" suction hose from reservoir to pump using (#18) hose clamps. Connect (#19) hose from return side of valve to reservoir. Connect (#20) from pressure port of pump to valve inlet pressure port.

F. With hydraulic pump in operation use stabilizers, boom and dipper stick to raise backhoe to desired recommended operating height of 12" to 14" to lower frame cross tube.

G. Connect (#21 and #22) drawbar bracing to drawbar mount according to the drawing.