

Kelley 30

BACK-HOE

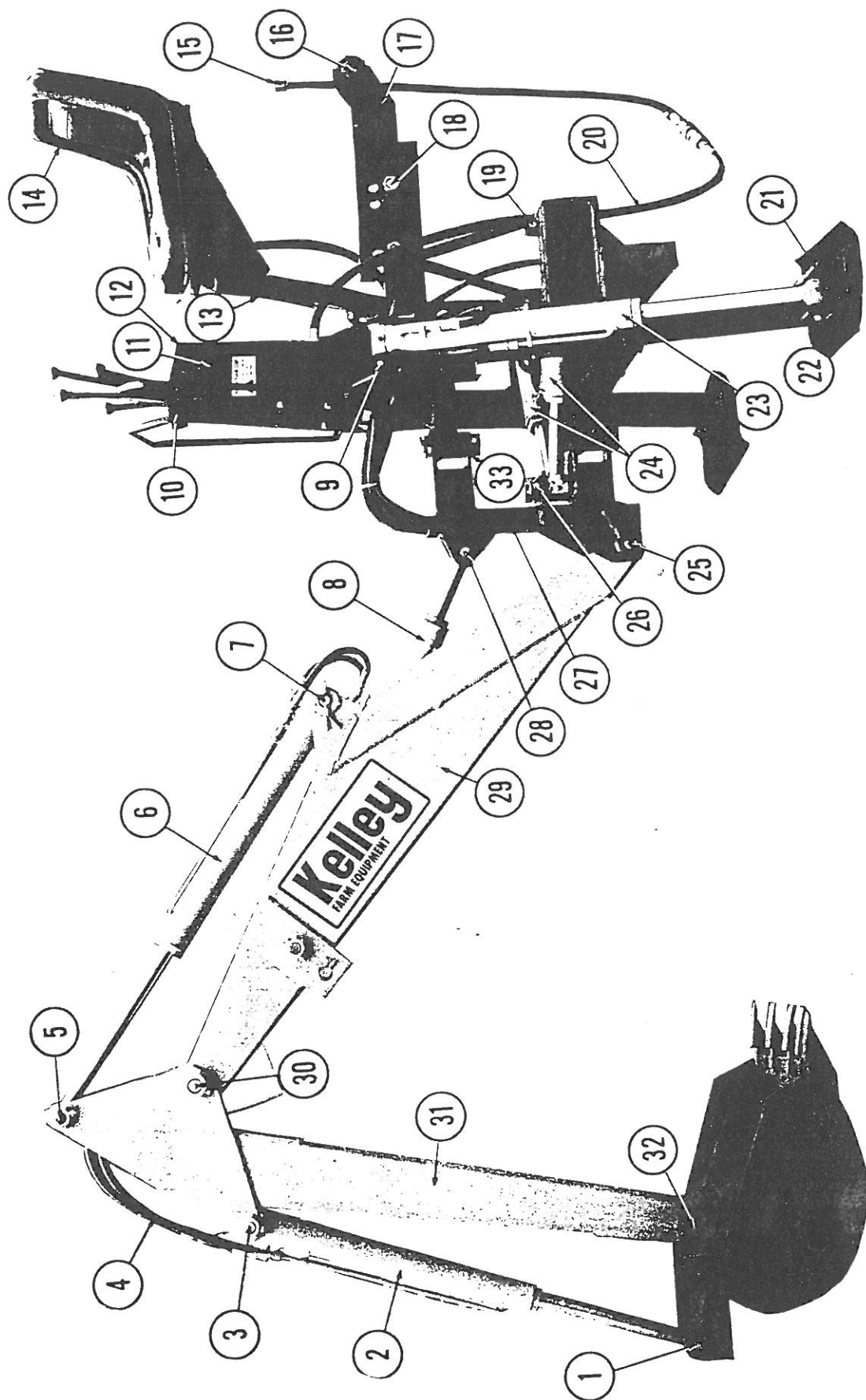
Parts Manual

MODELS B30, B30A, B30B, B30C

KELLEY MANUFACTURING CORPORATION

PO BOX 276 • 131 PROGRESSIVE DRIVE • OTTOVILLE, OHIO 45876

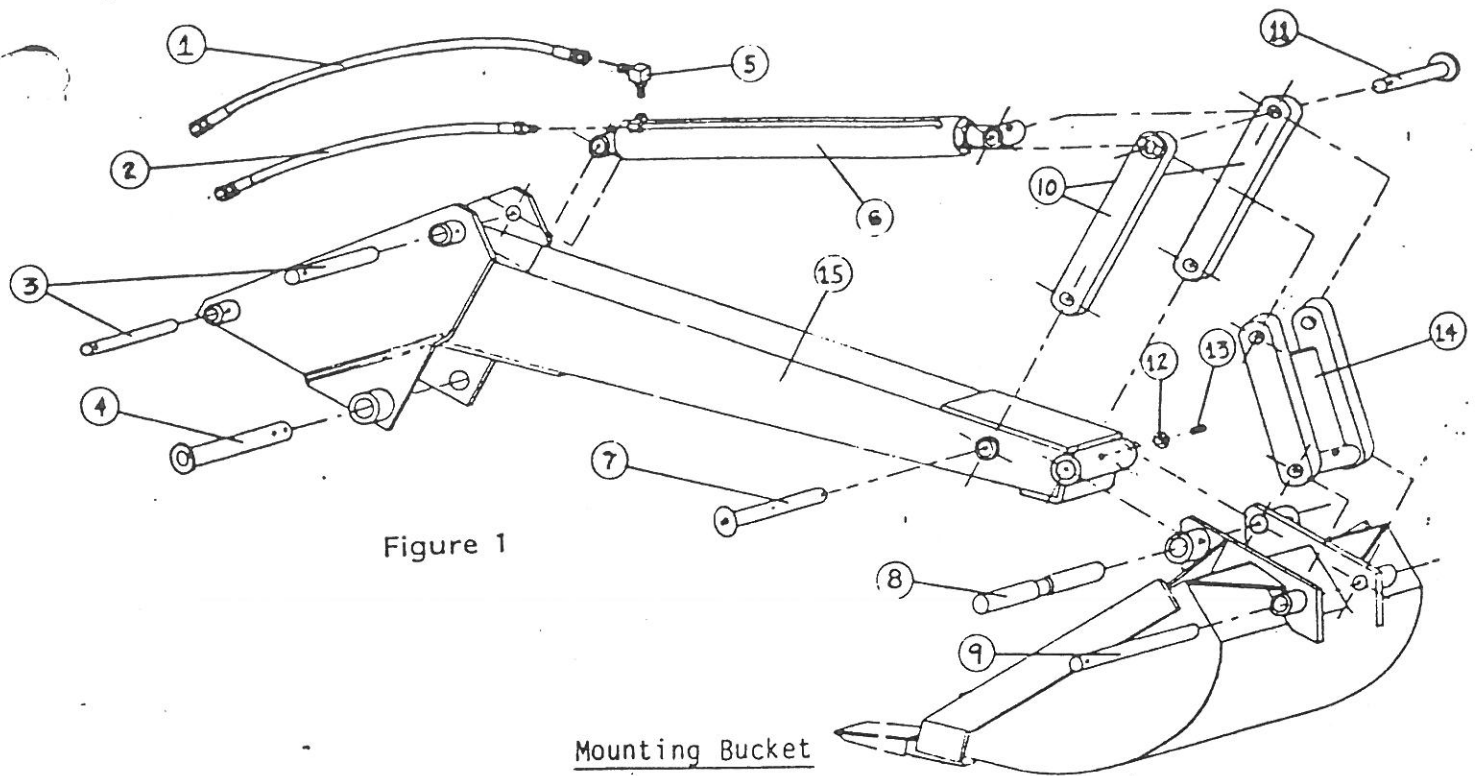
PHONE 419-453-5539 • FAX 419-453-2278



30 Backhoe

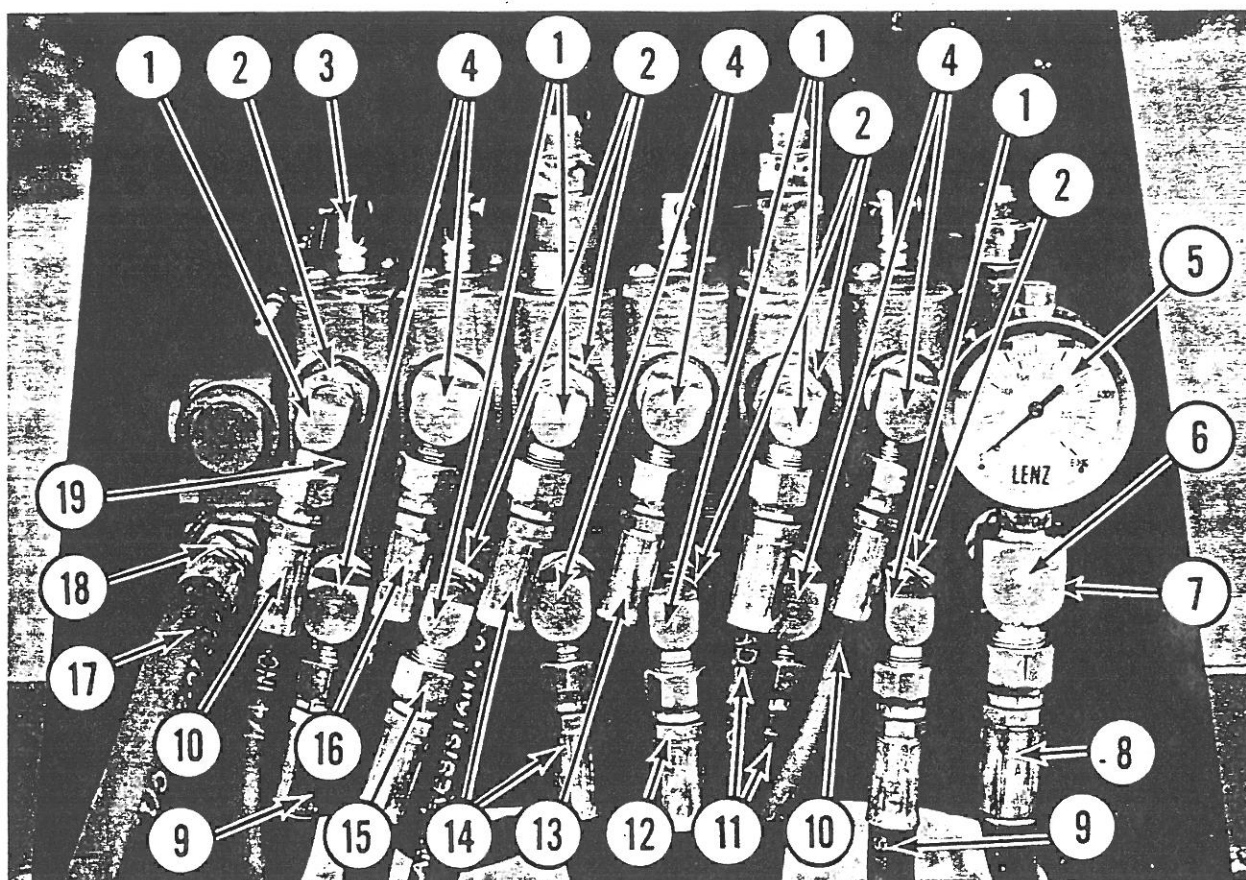
Reference Number	Qty	Description	Reference Number	Qty	Description
1	1	BMS118 Ram Pin, Rod End 1" x 5-1/2"	24	2	BCY302 Swing Ram, 2-1/2" x 10" Stroke
2	1	BCY304 Bucket Ram	25	1	BMS329 Boom Pivot Pin
3	1	BMS118 2-1/2" x 20" Stroke	26	2	BMS333 1-2/4" x 8"
4	2	BHO345 Ram Pin, Base End 1" x 5-1/2"	27	1	BMF319 Swing Ram Pin, Rod End, 1" x 4-3/4"
5	1	BMS118 Bucket Ram Hose	28	1	BMS332 Swing Mast
6	1	BCY304 4P-6JFS-6JM-30"	29	1	BMF323 Boom Ram Pin, Rod End, 1" x 3"
7	1	BMS118 Ram Pin, Rod End	30	1	BMS330 Boom Weld Assembly
8	1	BCY303 Dipper Ram	31	1	BMF322 Dipper Pivot Pin, 1-1/4" x 7-1/4"
9	2	BMS117 2-1/2" x 20" Stroke	32	1	Dipper Weld Assembly
10	1	BMT318 Stabilizer Ram Pin, Base End, 1" x 4"	33	2	Bucket Pivot Pin, 1-1/4" x 7"
11	1	BMF315 Transport Chain Carrier			Swing Pivot Pin 1-1/4 x 5 1/8
12	1	BMF316 Main Frame Weld Assembly			Unillustrated Parts
13	1	BMF328 Control Panel Cover	BMS215	1	Seat Assembly
14	1	BMS231 Seat Bracket	BMS232	2	Seat Adjusters
15	1	BHO252 Seat	BHO341	1	Dipper In Hose, 4P-6JM 11"
16	1	BFT327 Pressure Hose	BHO340	1	Dipper Out Hose 4P-6JFS-6JM 11"
17	1	BMF326 Category I Bushing	BMT325	1	Bulkhead Elbow Retaining Plate
18	2	BMS169 Third Point Link Bolt, 7/8" x 2-1/2" W/Nut & Lockwasher	BFT311	2	Bulkhead Elbow W/Nut (for bucket ram hose)
19	2	BMS115 Swing Ram Pin, Base Pin 1" x 4-3/4"	BMS172	9	Locking Pin W/Nut, 3/8" x 2-1/4"
20	1	BHO252 Return Hose	BMS173	5	Locking Pin W/Nut, 3/8" x 2-1/2"
21	1	BMF320 6P-8-8JFS-50"	BMT324	2	Hose & Line Clamp Plate (inside boom)
22	2	BMS117 Left Hand Stabilizer	BMS133	8	Steel Bushing for 1-1/4" Pin Pivot Point
23	2	BCY305 Stabilizer Ram, 2" x 16" Stroke	LMS2012	19	5/16" Drive Zerk
			LMS2006	7	5/16" x 3-1/2" Cotter Pin
			BMT352	2	Steel Hydraulic Line (stick ram)
			BMT353	2	Steel Hydraulic Line (bucket ram)
			BMS349	2	1/4" Tempered Chain - 72"
			BMS350	2	1/4" Tempered Chain - 45"
			BMF321	1	Right Hand Stabilizer

B30 BHC INSERT Dipper Stick and Bucket Linkage



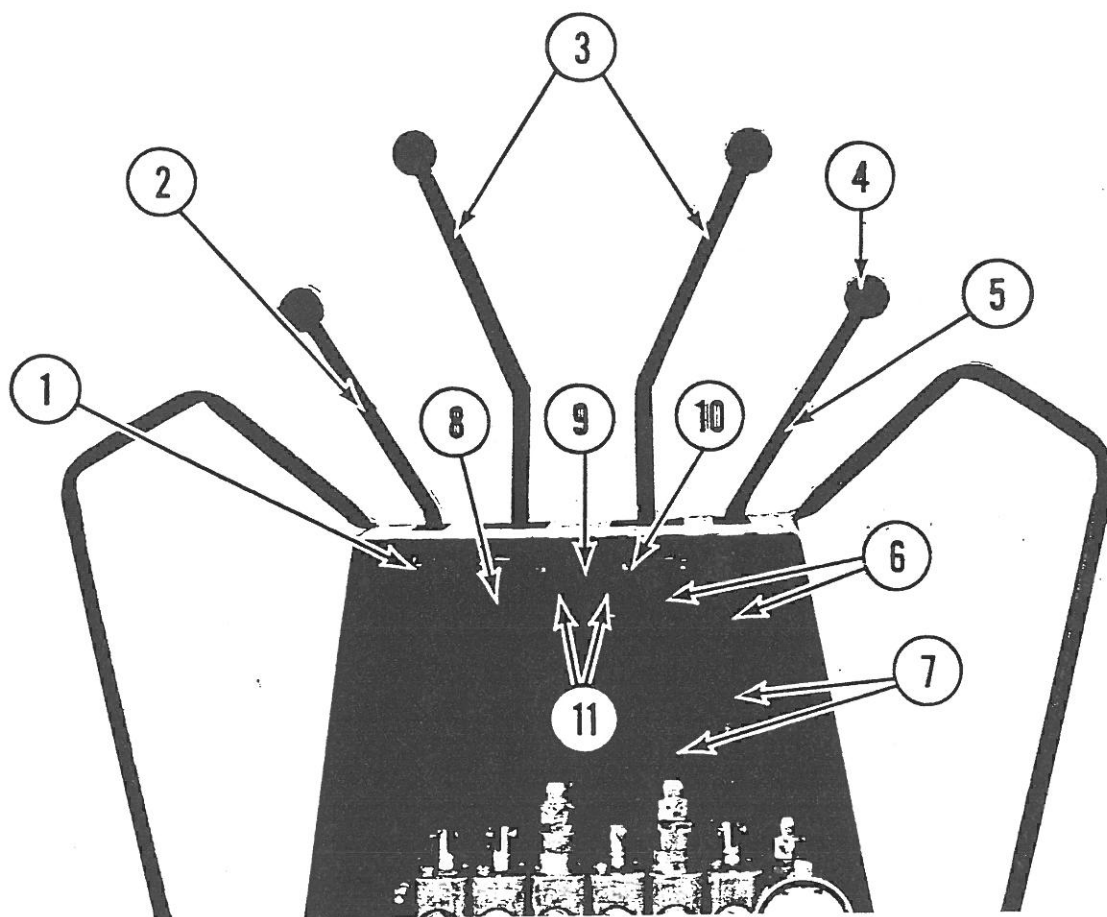
1. Cut strapping from linkage and remove pin #9 from bucket linkage.
2. Remove the bucket pivot pin on the dipper stick, #8. Position the dipper stick to allow easy mounting of the bucket. Secure the bucket pivot pin with the 3/8" set screw and lock with the jam nut.
3. Use the bucket cylinder so that the bucket linkage can be secured to the bucket with the bucket linkage pin. Use the 5/16" roll pin to lock the pin in place.

Ref. No.	No. Req'd.	Part No.	Description
1	1	SH010472	Bucket cylinder hose, base end 6P-6JFS-6JFS-33"
2	1	SH010473	Bucket cylinder hose, tube end 4P-6JFS-6JM-33"
3	2	SPN10462	Dipper stick pin 1" x 5-1/2"
4	1	SPN330	Dipper stick pivot pin 1-1/4" x 7-1/4" with washer
5	1	SFT312	O'ring ell 853B x 6
6	1	SCY10487	Bucket cylinder
7	1	SPN10461	Linkage pivot pin 1" x 6" with washer and zerk
8	1	SPN10468	Bucket pivot pin 1-1/4" x 7-1/4" with groove
9	1	SPN10488	Bucket cylinder pin, rod end 1" x 6-1/2"
10	2	BMF11055	Cylinder linkage
11	1	SPN10460	Bucket linkage pin 1" x 6" with washer
12	1	SNT10081	Jam nut 3/8"
13	1	SBT10080	Set screw 3/8" x 5/8"
14	1	BMF11009	Bucket linkage



Valve Hoses and Fittings

Ref. No	Quantity	Part No.	Description
1	6	BFT308	Fitting 863 B x 6 swivel ell
2	6	BFT307	850 B 6 x 8 adaptor
3	6	BMS300	Control rod pin
4	6	BFT306	853 B x 8 90 O'ring elbow
5	1	GAUGE	Hydraulic gauge
6	1	BFT250	Inlet & gauge fitting
7			Pressure side of valve (not a part)
8	1	BHO252	Pressure hose 6P-8-8JFS-50"
9	2	BHO336	Stabilizer ram hose 4P-6JM-6JFS-28"
10	2	BHO337	Stabilizer ram hose 4P-6JM-6JFS-29"
11	2	BHO342	Dipper ram hose 4P-6JM-6JFS-67"
12	1	BHO338	Bucket ram hose 4P-6JM-6JFS-48"
13	1	BHO339	Bucket ram hose 4P-6JM-6JFS-50"
14	2	BHO347	Swing ram hose 4P-6JM-6JFS-26"
15	1	BHO343	Boom ram hose 4P-6JM-6JFS-82"
16	1	BHO344	Boom ram hose 4P-6JM-6JFS-84"
17	1	BHO252	Return hose 6P-8-8JFS-50"
18	1	BFT310	Special return fitting with check
19	1	BCV258	850 B x 8 x 10 Husco 6 bank hydraulic valve

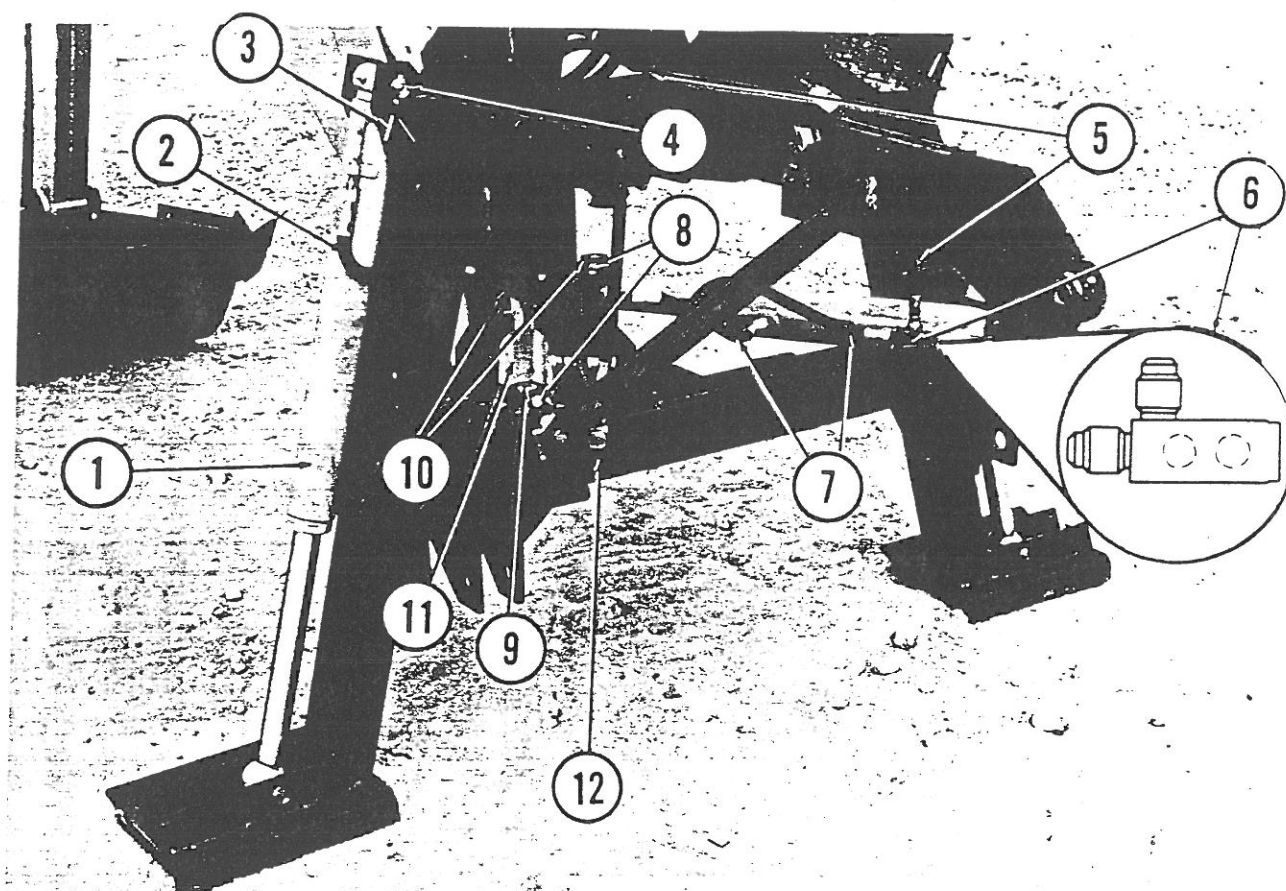


Valve Controls

<u>Ref. No.</u>	<u>Quantity</u>	<u>Part No.</u>	<u>Description</u>
1	2	BMS297	1/16" x 1" cotter pin
2	1	BMS263	Stabilizer control handle, L.H.
3	2	BMS264	Dipper-bucket & boom-swing (center control handle)
4	4	LMS3149A	Control handle knob
5	1	BMS262	Stabilizer control handle, R.H.
6	4	BCV143	Ball joint connector
7	6	BCV335	Control rod
8	2	BMS153	Lever bolt with locknut
9	1	BMT261	Control bracket
10	2	BMS299	Control pivot bracket assembly
11	2	BCV259	Special ball joint connector - short

Not Illustrated Parts

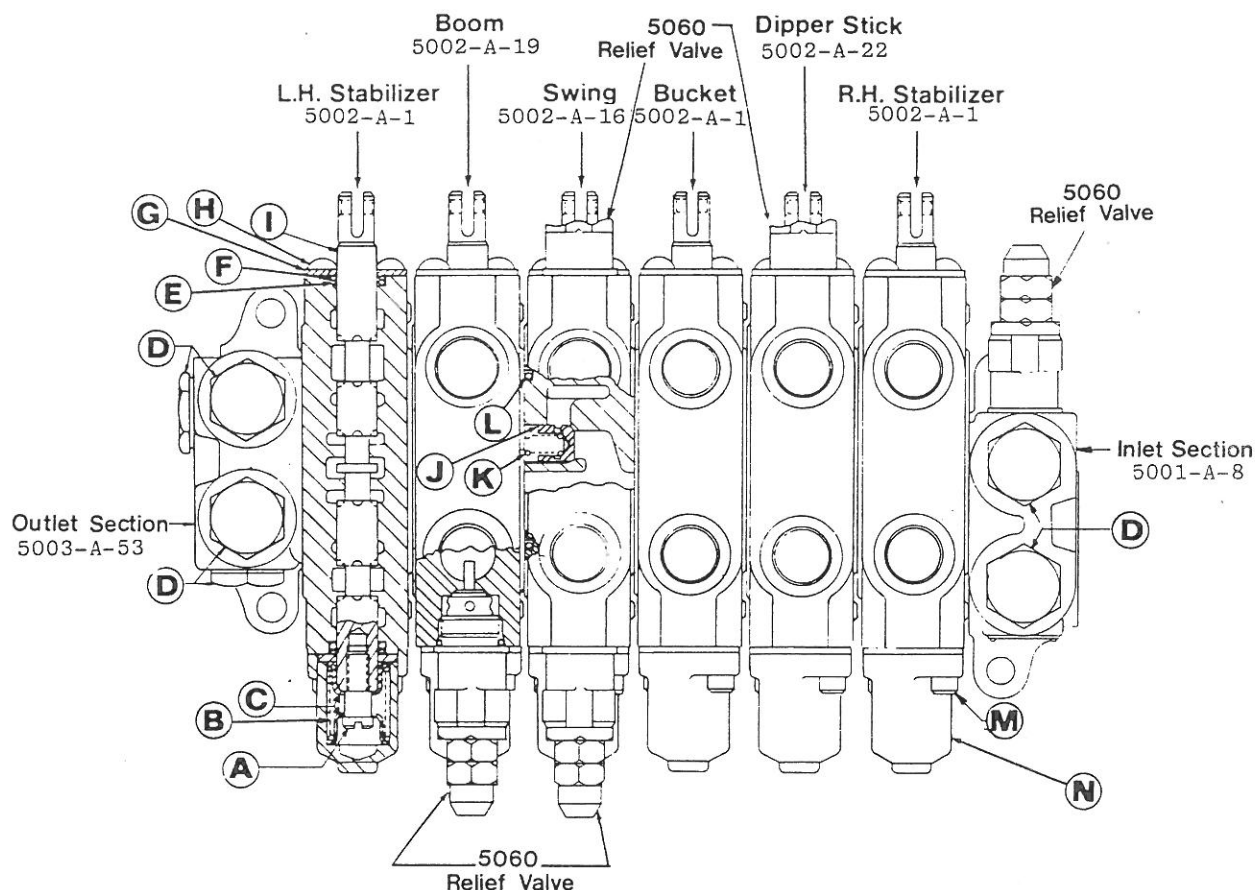
1	BMF316	Control lever panel cover
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Swing and Stabilizer Hoses and Fittings

<u>Ref. No.</u>	<u>Qty.</u>	<u>Part No.</u>	<u>Description</u>
1	2	BCY305	Stabilizer Ram 2" x 16" Stroke
2	2	BHO336	Stabilizer Hose 4P-6JFS-6JM-28"
3	4	LMS2006	Cotter Pin 5/16" x 3-1/2"
4	4	BMS117	Stabilizer Ram Pin Rod & Base End 1" x 4"
5	2	BHO347	Swing Ram Out Hose 4P-6JFS-6JFS-26"
6	1	BFT314	RH Manifold with cushion
7	2	BHO348	Swing Ram Hoses 4P-6 O'ring-6JFS-21"
8	4	BMS172	Locking Pin W/Nut, 3/8" x 2-1/2"
9	2	BMS115	Swing Ram Pin, Base End 1" x 6-1/4"
10	2	BMS333	Swing Ram Pin, Rod End 1" x 4-3/4"
11	2	BCY302	Swing Ram 2-1/2" x 10" Stroke
12	1	BFT313	LH Manifold with cushion

Husco Valve



Service Parts List

Outlet Section Assembly

Ref. Letter	Quantity Required	Part Number	Description
NI	1	5006-C-9	Housing*
D	4	11180	Plug

*Order complete section

Plunger (Spool) Section Assembly

Unit No.	Relief Valve Assemblies	No. Required
5002-A-1		
5002-A-19	5060 Relief Valve Ass'y	1
5002-A-16	5060 Relief Valve Ass'y	2
5002-A-22	5060 Relief Valve Ass'y	1

Inlet Section Assembly

Ref. Letter	Quantity Required	Part Number	Description	Material
NI	1	5004-A-7	Valve Housing	
NI	1	5060	Relief Valve	
D	2	11180	Plug	
K	1	564	O-ring	

Seal Kits

(1)	Complete Spool and Section	#51949
(1)	Spool	#51951
(1)	Section	#51086

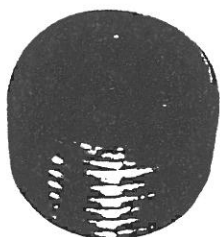
Plunger (Spool) Parts

All plunger (spool) plunger parts typical for the plunger housings.

Ref. Letter	Quantity Required/Plunger	Part No.	Description
A	1	5015	Cap Screw
B	1	5014	Plunger Spring
C	2	5013	Spring Seat
E	2	130	O-ring
F	2	5029	Wiper
G	2	5012	Seal Plate
H	2	3432	Machine Screw
I	1	5031*	Plunger
J	1	5011	Poppet
K	1	5064	Spring
L	1	564	O-ring
M	2	5035	Cap Screw
N	1	5028	Plunger Cap

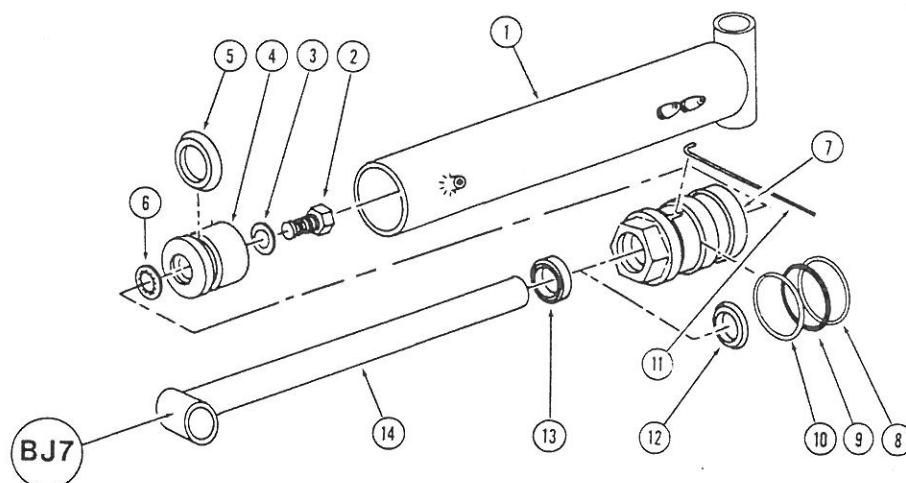
*Plungers and housings are match fitted and are not field replaceable items.

Closed Center Plug



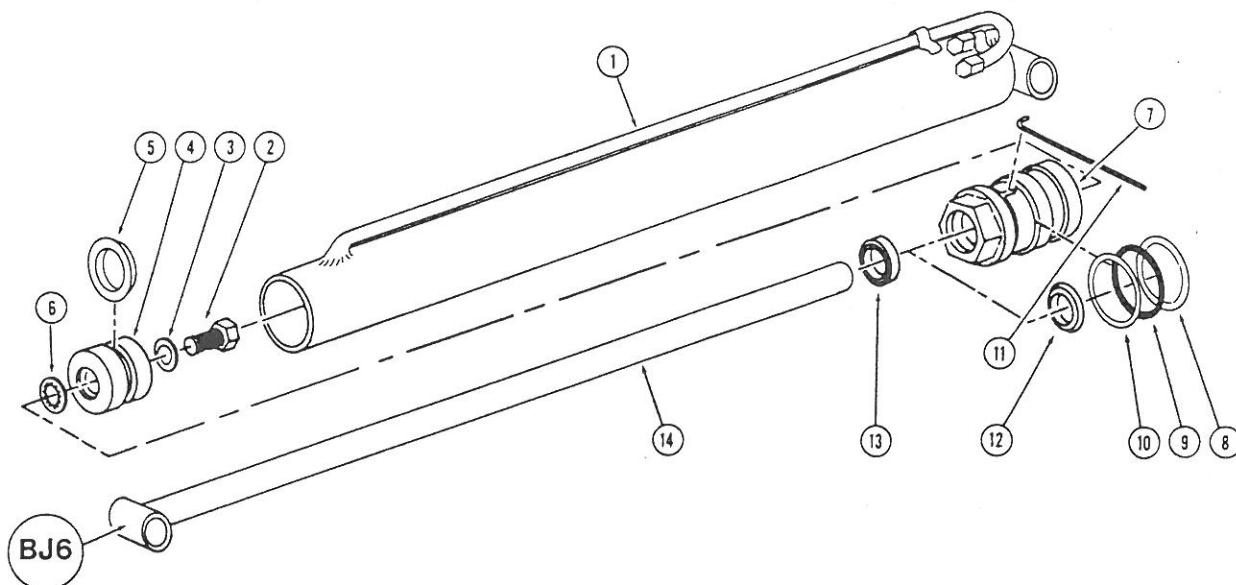
BCV301

BCY302 2-1/2" X 10" Swing Cylinder



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	BCY1083	Barrel Assembly	8 & 10	LCY1070	Back-up Ring
2	LCY1017	7/8" Capscrew	9	LCY1024	O'ring
3	LCY1018	7/8" Dyna Seal	11	LCY1026	Lockwire
4	BCY356	Piston	12	LCY1025	Rod Seal
5	LCY1019	Piston Seal	13	LCY1027	Rod Wiper
6	BMS245	Internal Lockwasher	14	BCY1082	Rod Assembly
7	LCY1023	Ram Head		LCY1030	Seal Kit

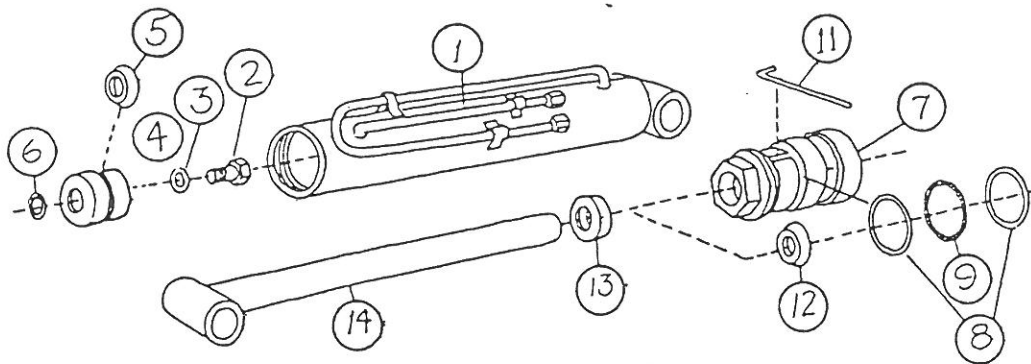
BCY303 2-1/2" X 26" Boom Cylinder



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	BCY1085	Barrel Assembly	8 & 10	LCY1070	Back-up Ring
2	LCY1017	7/8" Capscrew	9	LCY1024	O'ring
3	LCY1018	7/8" Dyna Seal	11	LCY1026	Lockwire
4	LCY1020	Piston	12	LCY1025	Rod Seal
5	LCY1019	Piston Seal	13	LCY1027	Rod Wiper
6	BMS245	Internal Lockwasher	14	BCY1084	Rod Assembly
7	LCY1023	Ram Head		LCY1030	Seal Kit

BULLETIN

It has come to our attention in the 30 MANUAL that the Folding & Gull Stabilizer Cylinder PART# BCY 10238 2"x13" was left out of the Manual for Models B30, B30FA, B30FB & B30FC.



BCY10238, 2" x 13" FOLDING & GULL STABILIZER CYLINDER

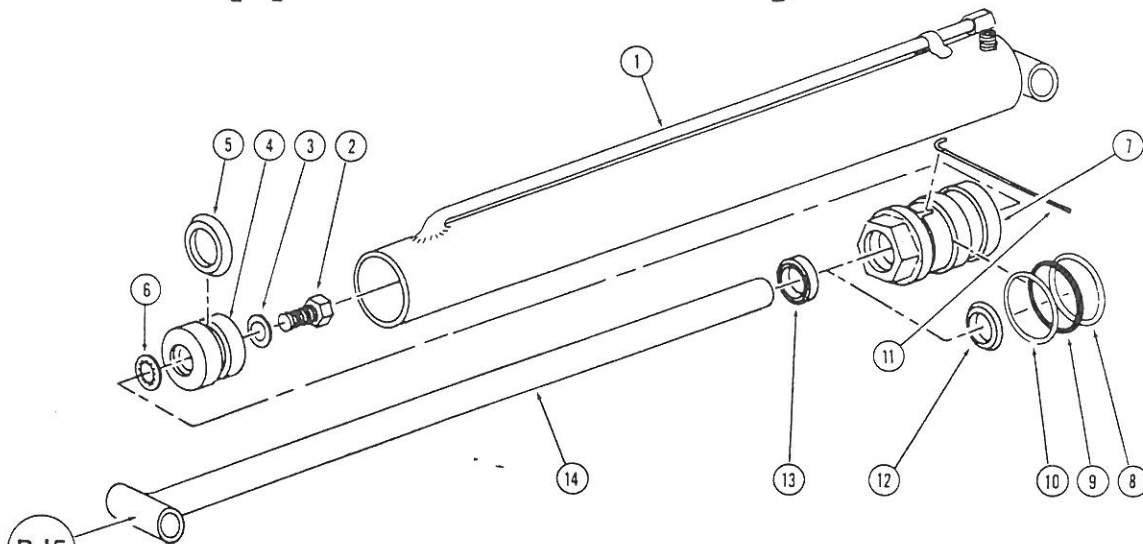
III.

No.	Qty	Part No.	Description
1	1	SCY11067	Barrel Assembly
2	1	SBT1017	Capscrew, 7/8"
3	1	SCY1018	Dyna Seal, 7/8"
4	1	SCY1032	Piston
5	1	SCY1031	Piston Seal
6	1	SW5245	Internal Lockwasher
7	1	SCY1034	Cylinder Head

III.

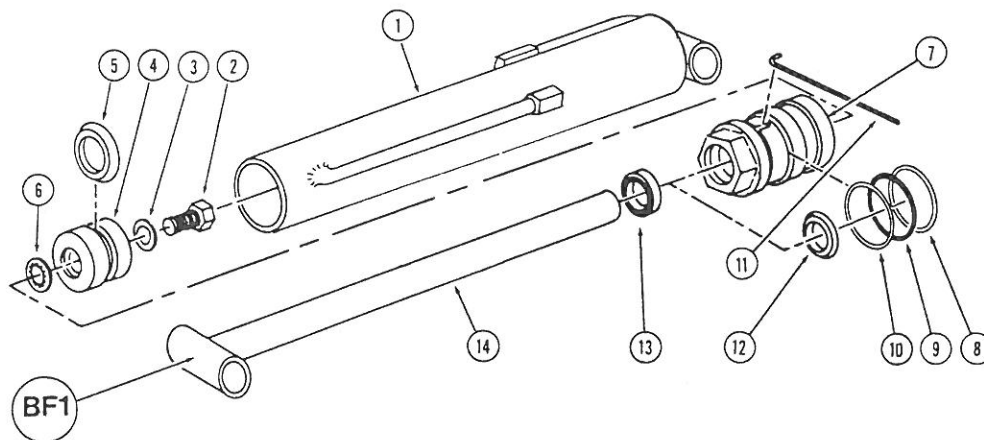
No.	Qty.	Part No.	Description
8	2	SCY10063	Back-Up Ring
9	1	SCY1035	O'Ring
11	1	SCY1036	Lockwire
12	1	SCY1025	Rod Seal
13	1	SCY1027	Rod Wiper
14	1	SCY11068	Rod Assembly
NI	1	SCY1038	Seal Kit

BCY304 2-1/2" X 20" Dipper & Bucket Cylinder



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	BCY1087	Barrel Assembly	8 & 9	LCY1070	Back-up Ring
2	LCY1017	7/8" Capscrew	9	LCY1024	O'ring
3	LCY1018	7/8" Dyna Seal	11	LCY1026	Lockwire
4	LCY1020	Piston	12	LCY1025	Rod Seal
5	LCY1019	Piston Seal	13	LCY1027	Rod Wiper
6	LCY245	Internal Lockwasher	14	BCY1086	Rod Assembly
7	LCY1023	Ram Head		LCY1030	Seal Kit

BCY305 2" X 16" Stabilizer Cylinder



Ref. No.	Part No.	Description	No.	No.	Description
1	BCY1089	Barrel Assembly	8 & 10	LCY1070	Back-up Ring
2	LCY1017	7/8" Capscrew	9	LCY1024	O'ring
3	LCY1018	7/8" Dyna Seal	11	LCY1026	Lockwire
4	LCY1020	Piston	12	LCY1025	Rod Seal
5	LCY1019	Piston Seal	13	LCY1027	Rod Wiper
6	BMS245	Internal Lockwasher	14	BCY1988	Rod Assembly
7	LCY1023	Ram Head		LCY1030	Seal Kit

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FARM EQUIPMENT