



**D-100 Backhoe
Owner's Manual and
Parts Catalog**

Manual Part No. H5843

J I Case
A Tenneco Company



INDEX

With Exception To Attaching Parts, This Catalog Includes All Parts For The D-100 Backhoe. Refer To The Parts Catalog Of The Machine On Which The D-100 Is Installed For A List Of The Attaching Parts.

The Boom, Dipper Stick, Buckets And Cylinders Are Also Common To The SD-100 Bucket. Refer To The Parts Catalog Of The Machine On Which The SD-100 Is Installed For A List Of The Attaching Parts And For Parts Not Common To The D-100 Backhoe.

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ASSEMBLY

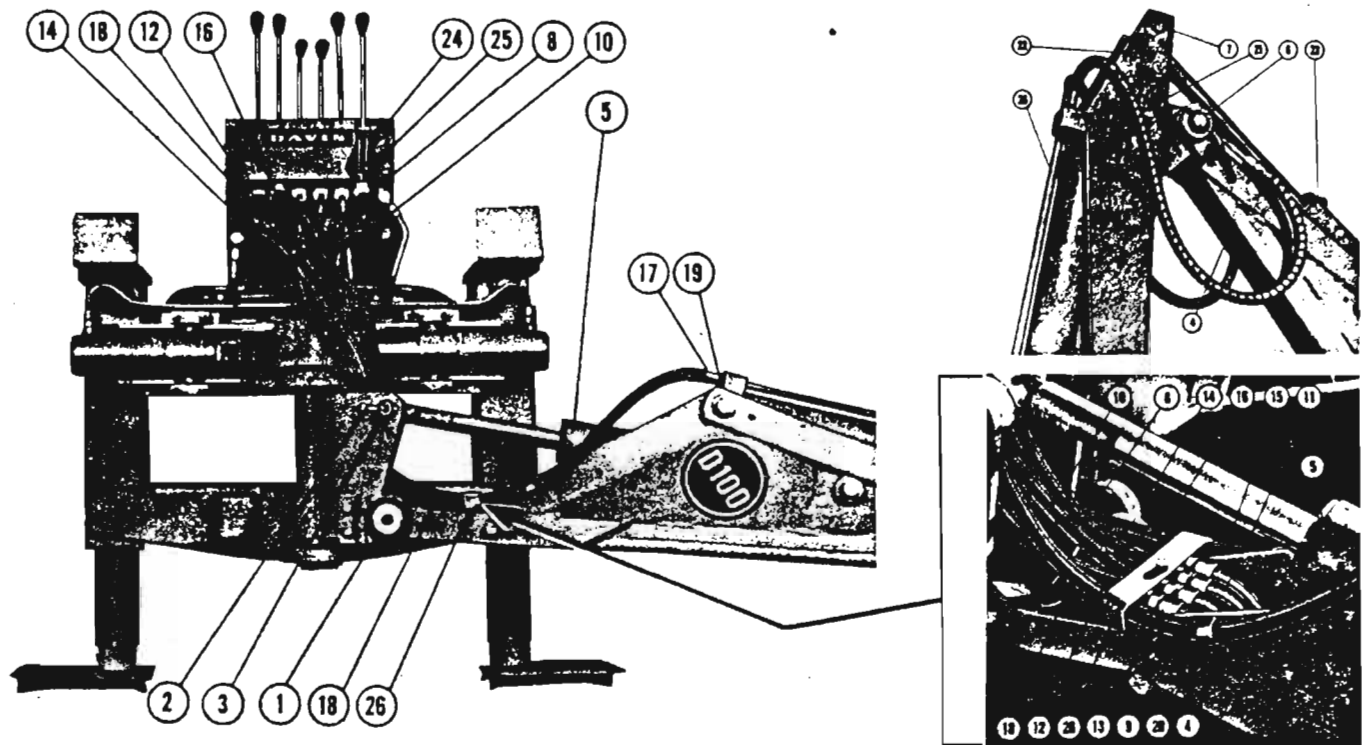


Figure 1

NOTE: In the following instructions all references to "left" or "right" are from the operator's position on the seat.

INSTALLATION OF BOOM

1. Remove bumper (1) and remove boom attaching pin.
2. Remove retaining pin (2) and boom cylinder pin (3).
3. Attach boom assembly (4) and boom cylinder (5) to king post using pins removed in steps 1 and 2.

INSTALLATION OF DIPPER STICK

1. Remove pin (6) from outer end of boom (4) and pin (7) from dipper stick (22).
2. Install dipper stick (22) to boom (4) and crowd cylinder (23) to dipper stick (22) with pins removed in step 1.

INSTALLATION OF CONTROL LINKS

1. Connect each of the six control levers to its respective valve spool using two links (24) and two clevis pins (25).
2. Install valve linkage cover (not shown) using five 5/16 x 3/4" self-tapping metal screws.

INSTALLATION OF HYDRAULIC HOSES AND TUBES

1. Install hose (8) from upper port of valve boom section to third tube from left (11) on boom. Attach hose (10) from lower port of valve boom section to second tube from left (9) on boom.
2. Connect hose (12) from upper port of valve bucket section to left outside tube (13) on boom. Install hose (14) from lower port of valve bucket section to right tube (15) on boom.
3. Attach hose (16) from upper port of valve crowd section to left port of crowd cylinder (17). Install hose (18) from lower port of valve crowd section to right port (19) of crowd cylinder. Pull hose slack to rear and secure with clamp (20).
4. Secure tubes (9), (11), (13), (15), (16), and (18) to boom with clamp (26).
5. Attach hoses (16) and (18) to boom with clamp (27).
6. Secure clamp (26) to boom with 5/16" x 2" N.C. bolt and lock washer.
7. Attach hose (21) from left port of bucket cylinder (29) to left tube on boom. Attach other hose to right tube on boom. Connect these hoses with dipper stick extended and make sure hoses will clear dipper stick hinge point when dipper stick is retracted. The correct clearance can be obtained by rotating the hoses to the proper position before tightening the hose fittings or if necessary the tubes may be re-formed by hand to facilitate clearance.

NOTE: For attachment of Davis D-100 Backhoe to power unit, refer to applicable installation sheet.

SERVICE

LUBRICATION CHART

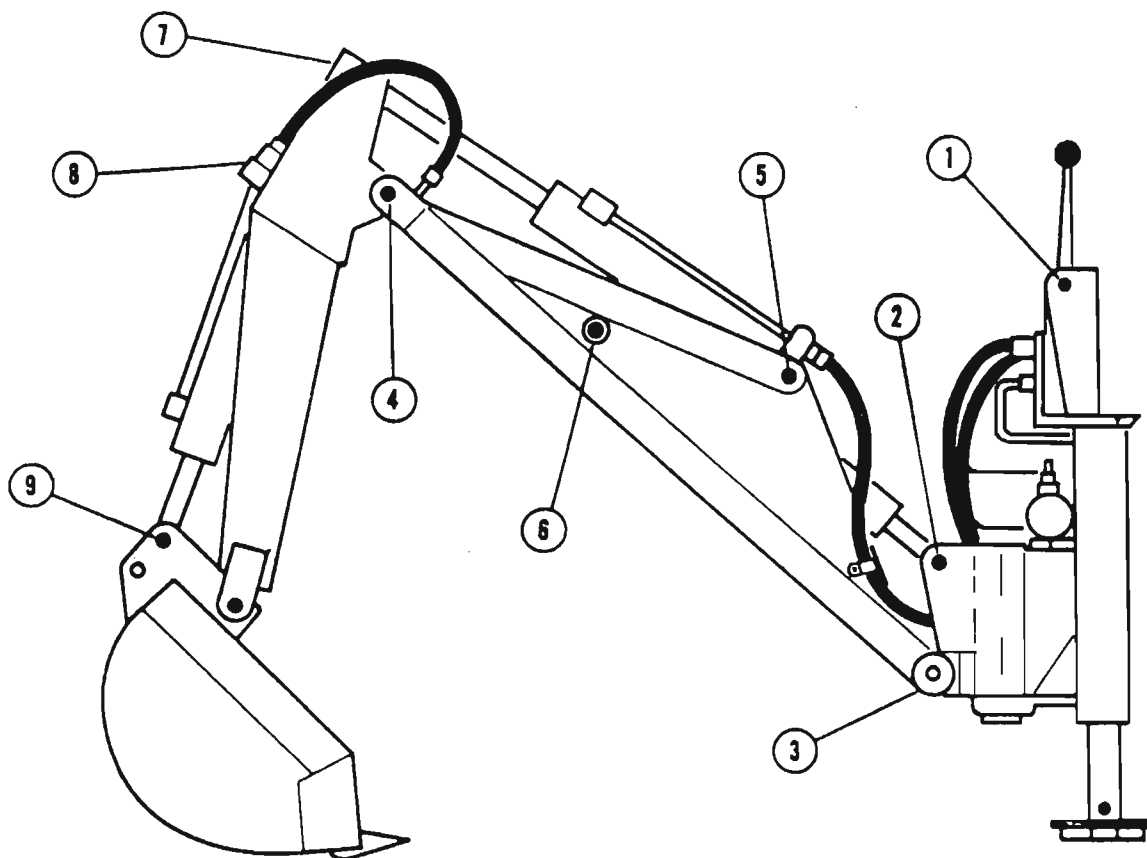


Figure 2

Use only recommended hi-grade lubrication grease. Grease daily or more often if conditions warrant.

1. Valve Control Lever — 6 places
2. Rod end Bushings — Boom Cylinder
3. Lower Boom and king post bushings
4. Upper Boom and Dipper Stick Bushings
5. Head end Bushings — Crowd Cylinder
6. Head end Bushings — Boom Cylinder
7. Rod end Bushings — Crowd Cylinder
8. Head end Bushings — Bucket Cylinder
9. Rod end Bushings — Bucket Cylinder

If desired, under normal operating conditions, soft oil can be applied to bucket hinge pin bushings and swing cylinder gear teeth and guide to provide quieter operation. However, it is not recommended to apply oil to these parts if machine is to be operated in extremely dusty areas as the oil will attract dust particles causing excessive wear.

Check lower boom pivot bracket bolts and pin retaining bolts after the first few hours of operation and tighten if necessary.

RELIEF VALVES

The Davis D-100 Backhoe control valve has four separate relief valves incorporated in the valve body. These relief valves are of a pilot operated design and are non-adjustable. If replacement of any of these valves becomes necessary, consult the Parts Section of this manual.

MAIN PRESSURE RELIEF VALVE

The main pressure relief valve is located on top of the left port plate of the control valve. This valve protects the entire hydraulic system from overloading and is pre-set to open at 2000 P.S.I.

BOOM RELIEF VALVES

The boom section of the control valve has two built-in relief valves, one located in the top port and one in the bottom port of the boom section. These relief valves are pre-set to open at 3000 P.S.I. and have been incorporated to insure complete protection against overloading the boom cylinder. They also provide a cushioning effect on the boom during a sudden drop.

DIPPER STICK OR CROWD CYLINDER RELIEF VALVE

A 3000 P.S.I. relief valve is located in the top of the dipper stick or crowd section of the control valve. The function of this relief valve is to limit the load stresses on the dipper stick and the dipper stick or crowd cylinder.

SWING CYLINDER RELIEF VALVES

In addition to the four relief valves installed in the control valve body two relief valves have also been built into one end of the swing cylinder.

These valves are pre-set to open at 2000 P.S.I. and provide a cushioning action of the boom during the swing operation. This cushioning effect results in a much smoother operation and a minimum of stress on the boom and swing cylinder components.

ADJUSTMENT OF ORIFICE PLATES

If boom swing is faster than desired, speed can be adjusted by removing swing cylinder tubes at the control valve. Using a screw driver, remove fixed orifices from ports. Holes in orifices can be closed by laying orifice on solid object and partially closing holes with a blunt punch.

OPERATING INSTRUCTIONS

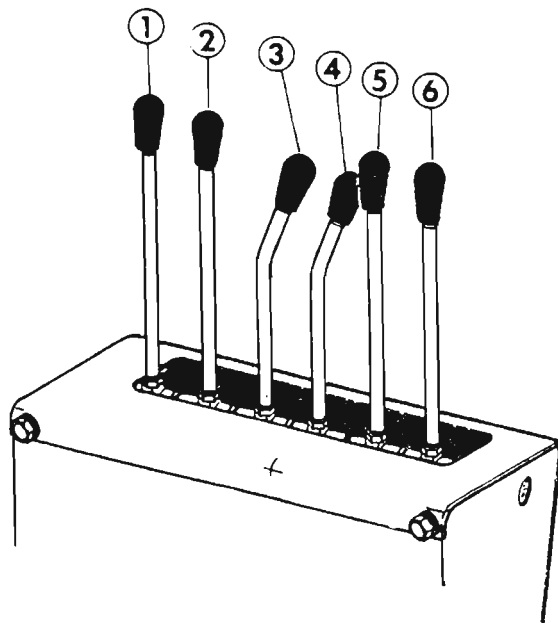


Figure 3

1. The boom is raised by pulling back on No. 1 lever on the operator's left and lowered by pushing forward on this same lever.
2. The backshoe swings left by pulling back on the No. 2 lever and swings right by pushing the lever forward.

3. The No. 3 lever operates the left stabilizer. The No. 4 lever operates the right stabilizer. Push forward on Nos. 3 and 4 levers to lower the stabilizer feet — pull back to raise them.
4. The No. 5 lever controls the dipper stick or crowd cylinder. Pull the lever back to bring the bucket toward the operator, push forward to push it away from the operator.
5. The No. 6 lever operates the bucket. Pull lever back to curl the bucket, push forward to dump.

FLUSH DIGGING

If additional clearance is required for flush digging, the over-all width of the D-100 can be reduced by removing the stabilizer feet and turning them around. To accomplish this, remove the pins from the under side of feet. Remove feet and replace them so that offset faces center of machine.

OPERATIONAL TIPS

To familiarize yourself with the operation of the Davis D-100 Backhoe it is recommended that the unit be operated at near idle speed until efficient, simultaneous operation of the controls is mastered. As you operate the machine you will notice that the simultaneous operation of the controls will contribute to smoother cylinder action producing a more efficient use of the hydraulic power.

Always operate the D-100 from the operator's seat. Due to the full 180° swing of the boom it is imperative to keep your feet **behind** the foot guards located above the stabilizer section of the Backhoe.

GENERAL INFORMATION

THIS CATALOG IS INTENDED TO PROVIDE PARTS ORDERING INFORMATION ONLY, AND SHOULD NOT BE USED AS A GUIDELINE FOR DISASSEMBLY OR REASSEMBLY OF THE MACHINE OR COMPONENTS.

Illustrations:

All parts are illustrated in "Exploded Views" which show the individual parts in their normal relationship to each other. Reference numbers are used on the illustrations. These numbers correspond to those used in the REFERENCE NUMBER column, and are followed by the part number, description, number required, and serial code when applicable.

The repair parts for the available engines are found in the applicable engine manual. Engine parts must be obtained from the engine dealer or distributor.

Indented Description:

Indented parts in the description list are a part of the preceding assembly or sub-assembly. The quantity shown in the "Number Required" column is the number of parts used on a machine except where parts are indented in descriptive list. In that case, the quantity shown is the number required for the preceding assembly or sub-assembly. An X or AR in the "Number Required" column indicates the quantity to be used is "as required."

Ref. No.	Part No.		No. Req.	Used On
7	H554675	Boom End Asm -----	1	
8	H508168	..Outer Roller Asm -----	2	
9	H071779	....Roller -----	1	
10	H747139	....Bearing -----	2	
11	H080838	..Square Shaft -----	2	

Serialized Parts:

Part variations within serial number coded assemblies are indicated by a letter in the USED ON column. When the USED ON column is blank, the parts listed apply to all machines covered by the figure. The serials that apply to each letter in the USED ON column are listed at the bottom of the text page for each figure.

Right-Hand and Left-Hand Sides:

Right-hand and left-hand sides (abbreviated to RH and LH) of the basic machine and front mounted equipment are determined by sitting or standing in the operator's seat or position and facing the direction of forward travel.

Right-hand and left-hand sides of rear mounted equipment are determined by sitting in the operator's seat and facing the equipment.

Abbreviations:

AR	As Required	NC	Unified National Coarse Thread
CPSS	Cup Point Set Screw	NF	Unified National Fine Thread
Fe. Sw.	Female Swivel Fitting	NPT	National Standard Taper Thread
FRCS	Flat Head Cap Screw	NPTF...	Dryseal American Standard Pipe Thread
HMCS	Hex Head Cap Screw	NSS	Not Serviced Separately
HT	Heat Treated	ORB	O-Ring Boss
JIC	Joint Industry Conference	RH	Right Hand
LH	Left Hand	RHCS	Round Head Cap Screw
M	Male Fitting	REMS	Round Head Machine Screw
MP	Male Pipe Thread	SAE	Society of Automotive Engineers
M. Sw.	Male Swivel Fitting	SHSS	Socket Head Set Screw
NA	Not Available	STCS	Self Tapping Cap Screw
		THCS	Truss Head Cap Screw

Where dimensions are given for bolts, screws, pins, etc., the diameter is given first and length second.

It is the policy of the J. I. Case Co. Davis Division to improve its products whenever it is possible and practical to do so. We reserve the right to make changes or add improvements at anytime without incurring any obligation to make such changes on any machine sold previously.

REPAIR PARTS CATALOG

D-100 Backhoe


READ THESE INSTRUCTIONS BEFORE ORDERING PARTS

NOTICE: PARTS ARE INCLUDED IN THIS MANUAL AS A CONVENIENCE TO THE OWNER. ALL PARTS SHOULD BE ORDERED THROUGH A FRANCHISED DAVIS DEALER. ALWAYS GIVE SERIAL NUMBER OF MACHINE WHEN ORDERING PARTS.

The model, spec and serial number of your machine, shown on the name plate must be given when ordering parts.

The Serial Plate Is Attached To The Left Side Of The Control Valve Bracket.

FILL IN THE ABOVE INFORMATION ON THE PHOTO OF THE NAME PLATE SO THAT IT WILL BE AVAILABLE TO YOU WHEN ORDERING PARTS.

DAVIS Davis Manufacturing Division of J I Case A Tenneco Company Wichita, Kansas 67201 U.S.A.	Manufactured in U.S.A. © Marca Registrada 
Spec. No.	
Serial No.	

To insure prompt and accurate service, the following information must also be given:

1. State exactly, quantity of each part and part number.
2. State definitely how parts are to be shipped.

MAIN FRAME, DIPPER STICK, BOOM, BUCKETS
D15 - Serial No. 500 & Up
(Includes Spec. #'s L15SD01, P15SD02, P15DV02, Q15SD02 & Up.)

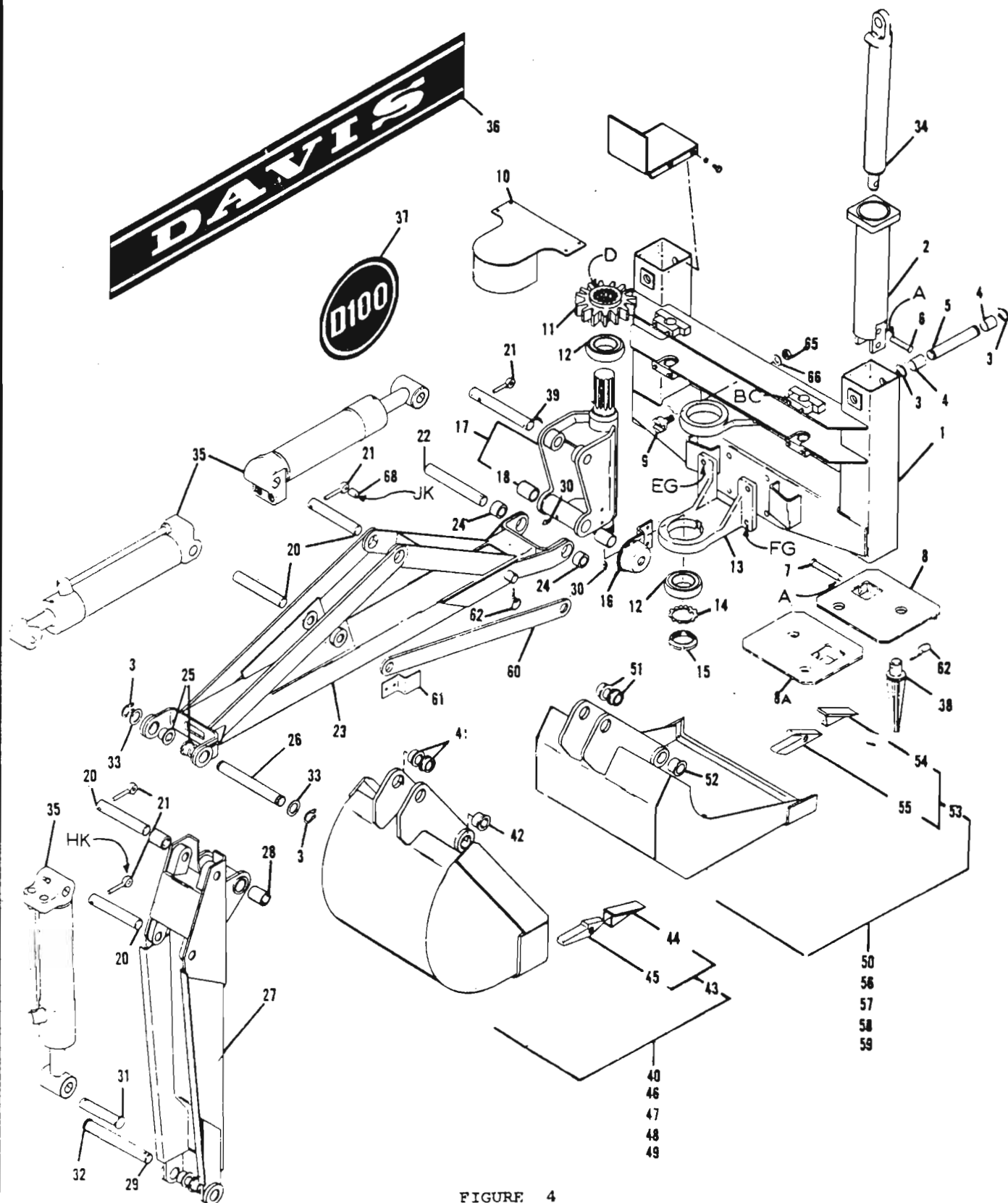


FIGURE 4

MAIN FRAME, DIPPER STICK, BOOM, BUCKETS
D15 - Serial No. 500 & Up
(Includes Spec. #'s L15SD01, P15SD02, P15DV02, Q15SD02 & Up.)

Ref. Part	No.	Description	No. Req.	Ref. Part	No.	Description	No. Req.
1	H514471	Main Frame Asm -----	1	46	H905166	Bucket Asm - 16" (Includes	
2	H514554	Stabilizer Asm -----	2			2 Ea. Items 41 & 42 & 4	
3	H746529	Snap Ring -----	6			Ea. Item 43) -----	x
4	H052068	Spacer - Stabilizer Cyl --	4	47	H905174	Bucket Asm - 20" (Includes	
5	H050831	Pin - Stabilizer Cylinder				2 Ea. Items 41 & 42 & 4	
		Hd End -----	2			Ea. Item 43) -----	x
6	H051870	Pin - Stabilizer Cylinder		48	H905182	Bucket Asm - 24" (Includes	
		Rod End -----	2			2 Ea. Items 41 & 42 & 5	
7	H031161	Pin - Stabilizer Pad To				Ea. Item 43) -----	x
		Stabilizer -----	2	49	H905190	Bucket Asm - 36" (Includes	
8	H514562	Stabilizer Pad Asm - L/H -	1			2 Ea. Items 41 & 42 & 7	
8A	H514570	Stabilizer Pad Asm - R/H -	1			Each Item 43) -----	x
9	H050377	Rack Guide Swing Cylinder -	1	50	H905109	Bell Hole Bucket - 12" ----	x
10	H514380	Gear Cover Asm -----	1	51	H050823	..Bushing - Cylinder Pin --	2
11	H050369	Swing Gear -----	1	52	H056184	..Bushing - Bucket Hinge --	2
12	H747170	Mast Bearing -----	2	53	H507103	..Tooth & Shank Asm -----	4
13	H050724	Bearing Housing, Lower		54	H036665	....Tooth Point -----	1
		Mast Bearing -----	1	55	H036657	....Tooth Shank -----	1
14	H748756	Lock Washer -----	1	56	H905117	Bell Hole Bucket - 18"	
15	H748715	Bearing Nut -----	1			(Includes 2 Ea. Item 51 &	
16	H514729	Bumper Asm -----	2			52 & 4 Ea Item 53) -----	x
17	H514596	King Post Asm -----	1	57	H905125	Bell Hole Bucket - 22"	
18	H056192	..Bushing -----	2			(Includes 2 Ea. Items 51	
19	H514414	Foot Rest -----	2			& 52 & 5 Ea Item 53) ----	x
20	H050690	Pin -----	4	58	H905141	Bell Hole Bucket - 32"	
21	H050666	Retainer Pin -----	5			(Includes 2 Ea. Items 51	
22	H050526	Pin - Boom Attaching ----	1			& 52 & 6 Ea Item 53) ----	x
23	H514620	Boom Weld Asm -----	1	59	H905133	Bell Hole Bucket - 36"	
24	H050435	..Bushing -----	2			(Includes 2 Ea Items 51	
25	H056184	..Bushing -----	2			& 52 & 7 Ea Item 53) ----	x
26	H050658	Pin - Dipper Stick To Boom	1	60	H056952	Transport Link -----	2
27	H514687	Dipper Stick Weld Asm ----	1	61	H060616	Retainer Clip -----	2
28	H056192	..Bushing -----	2	62	H032367	Klik Pin -----	6
29	H056184	..Bushing -----	2	63	H749499	STCS (5/16" x 3/4") -----	8
30	H745299	Grease Fitting -----	2	64	H739201	Lock Washer (5/16") -----	8
31	H257048	Pin - Cylinder To Bucket -	1	65	H738195	Nut (5/8" NF - Lock) -----	1
32	H050682	Pin - Bucket Hinge -----	1	66	H738500	Flat Washer (5/8") -----	1
33	H738997	Washer (1 1/8" I.D.) -----	3	68	H053793	Spacer - Pin Retainer -----	5
34	H514117	Stabilizer Cylinder Asm		A	H739946	Pin - Cotter (1/8" x 1") --	4
		(See Page 12 For Parts		B	H709923	HHCS (3/8" x 2 3/4" NC) ----	8
		List) -----	2	C	H738013	Nut (3/8" NC - Lock) -----	8
35***H600841	Cylinder Asm, Boom, Bucket			D	H746800	SHSS (3/8 x 3/8 NC, Cone	
	Crowd - Lantex (See Page					Point) -----	4
	14 For Parts List) -----	3		E	H711390	HHCS (5/8" x 2" NC) -----	2
35 **G34186	Cylinder Asm, Boom, Bucket			F	H711572	HHCS (5/8" x 6 1/2" NC) ----	2
	Crowd - Case (See Page 14			G	H738054	Nut (5/8" NC - Lock) -----	2
	For Parts List) -----	3		H	H709865	HHCS (3/8" x 1 1/4" NC) ---	2
35 *H514109	Cylinder Asm, Boom, Bucket			J	H709873	HHCS (3/8" x 1 1/2" NC) ---	1
	Crowd - Cessna (See Page			K	H739219	Lock Washer (3/8") -----	3
	14 For Parts List) -----	3					
36	H052118	Decal - Davis -----	1			* Up To Spec. No. L15SD02	
37	H052126	Decal - D-100 -----	2			**Spec. #'s L15SD02 To L15SD03.	
38	H102608	Stabilizer Spike -----	4			P15SD02 To P15SD04, P15DV02 To	
39	H056945	Pin, Boom Cylinder - Rod				P15DV03, Q15SD01 To Q15SD02.	
	End -----	4				***Spec. #'s L15SD03, P15SD04,	
40	H905138	Bucket Asm - 12" -----	x			P15DV03, Q15SD02 & Up.	
41	H050823	..Bushing - Cylinder Pin -	2				
42	H056184	..Bushing - Bucket Hinge -	2				
43	H507103	..Tooth & Shank Asm -----	4				
44	H036665	....Tooth Point -----	1				
45	H036657	....Shank -----	1				

* Up To Spec. No. L15SD02

**Spec. #'s L15SD02 To L15SD03,
P15SD02 To P15SD04, P15DV02 To
P15DV03, Q15SD01 To Q15SD02.

***Spec. #'s L15SD03, P15SD04,
P15DV03, Q15SD02 & Up.

HYDRAULIC LINES
(Up To Spec. # L15SD02) -----	8

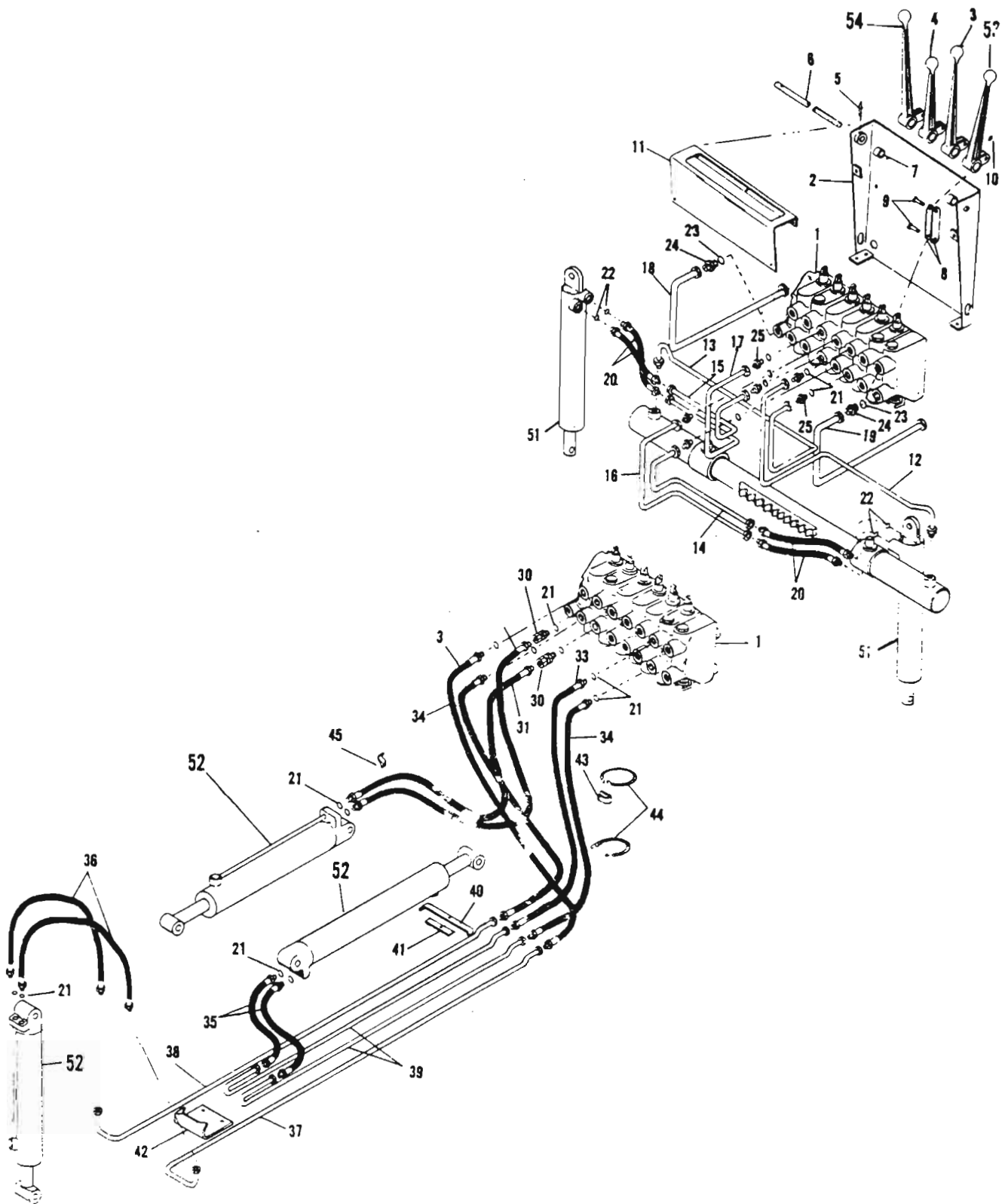
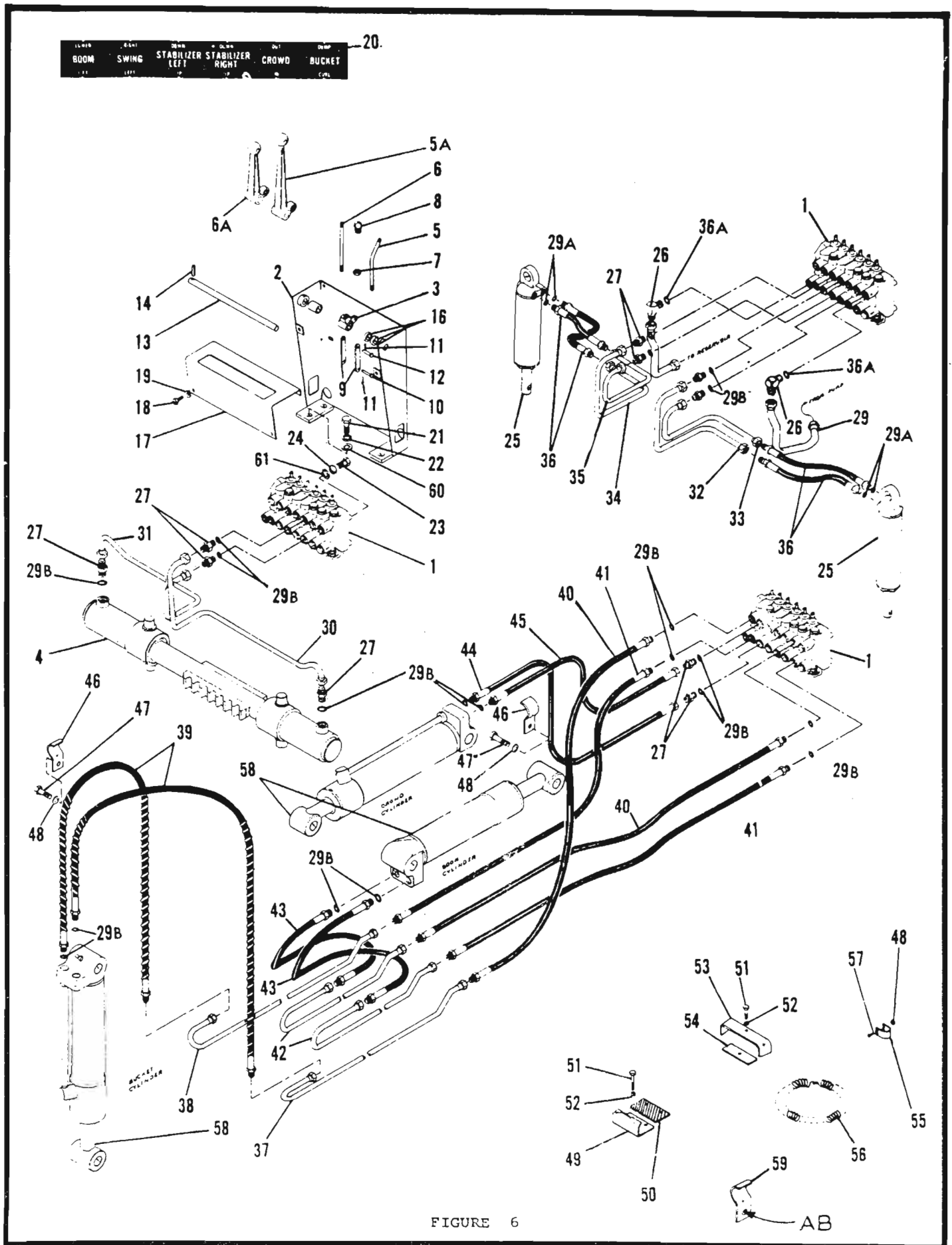


FIGURE 5

HYDRAULIC LINES
(Up To Spec. # L15SD02)

Ref. No.	Part No.	Description	No. Req.
1	H513788	Hydraulic Control Valve Asm (See Page 12 For Parts List) -----	1
2	H514588	Valve Mounting Asm -----	1
3	H050922	Lever - Backhoe -----	2
4	H050930	Lever - Stabilizer -----	2
5	H746941	Spiral Pin (3/16" x 1 1/4") -----	1
6	H050914	Shaft - Valve Lever -----	1
7	H050716	Spacer Lever Shaft -----	2
8	H050559	Link - Valve Lever -----	12
9	H035279	Clevis Pin -----	12
10	H745331	Grease Fitting -----	6
11	H050880	Valve Linkage Cover -----	1
12	H514760	Tube - Upper Port Of Valve To Left Side Swing Cylinder -----	1
13	H514778	Tube - Lower Port Of Valve To Right Side Swing Cylinder -----	1
14	H514786	Tube - Lower Port Of Valve To Left Side Stabilizer Cylinder -----	1
15	H514794	Tube - Lower Port Of Valve To Right Side Stabilizer Cylinder -----	1
16	H514455	Tube - Upper Port Of Valve To Left Side Stabilizer Cylinder -----	1
17	H514463	Tube - Upper Port Of Valve To Right Side Swing Cylinder -----	1
18	H514448	Tube - Return -----	1
19	H514430	Tube - Pressure -----	1
20	H051474	Hose (1/4" x 9") -----	4
21	H745166	"O" Ring -----	4
22	H745158	"O" Ring -----	4
23	H745174	"O" Ring -----	2
24	H049668	Adapter - Pressure & Return -----	2
25	H050211	Adapter - Tube To Valve -----	6
30	H052472	Adapter - Crowd Cylinder Hoses To Valves -----	2
31	H051441	Hose (3/8" x 56") -----	1
32	H051433	Hose (3/8" x 58") -----	1
33	H051466	Hose (3/8" x 38") -----	2
34	H051458	Hose (3/8" x 35") -----	2
35	H052399	Hose (3/8" x 15") -----	2
36	H051482	Hose (3/8" x 24") -----	2
37	H513671	Tube - Bucket Cylinder - Left -----	1
38	H513689	Tube - Bucket Cylinder - Right -----	1
39	H513697	Tube Boom Cylinder -----	2
40	H052589	Clamp - Tube -----	1
41	H051748	Clamp - Tube -----	1
42	H051755	Clamp - Tube -----	1
43	H052571	Clamp - Spring Retainer -----	1
44	H052548	Spring -----	2
45	H051763	Clamp Hose -----	2
51	H514117	Stabilizer Cylinder Asm (See Page 12 For Parts List) -----	2
52	H514109	Boom, Crowd & Bucket Cylinder Asm (See Page 14 For Parts List) -----	3
53	H083436	Lever - Left -----	1
54	H083444	Lever - Right -----	1

HYDRAULIC LINES
(Spec. #'s L15SD02, P15SD02, P15DV02, Q15SD01 & Up.) -----	10



HYDRAULIC LINES
(Spec. #'s L15SD02, P15SD02, P15DV02, Q15SD01 & Up.)

Ref. Part No. No.	Description	No. Req.	Ref. Part No. No.	Description	No. Req.
1	H513788 Control Valve (See Page 12 For Parts List) -----	1	40	H268557 Hose (3/8" x 38") 3/4" Boss x 3/4" JIC M - Upper Port, Bucket Boom -----	2
2	H514588 Control Valve Mounting Asm -----	1	41	H268540 Hose (3/8" x 35") 3/4" Boss x 3/4" JIC M - Lower Port, Bucket Boom -----	2
3	H275255 Control Lever Casting -----	6	42	H593392 Tube Asm (1/2") - Boom -----	2
4	H514125 Swing Cylinder Asm (See Page For Parts List) --	1	43	H244921 Hose (3/8" x 15") 3/4" Boss x 3/4" JIC M - Boom -----	2
5	H191924 Control Lever - Stabilizer -	2	44	H268516 Hose (3/8" x 56") 3/4" Boss x 3/4" JIC M) Crowd, Lower Port -----	1
5A	H287243 Control Lever - Stabilizer -	2	45	H268524 Hose (3/8" x 58") 3/4" Boss x 3/4" JIC M) Crowd Upper Port -----	1
6	H191916 Control Lever - Swing, Crowd, Boom, Bucket -----	4	46	H051763 Clamp - Hose -----	2
6A	H287250 Control Lever - Swing, Crowd, Boom, Bucket -----	4	47	H709113 HHCS (1/4" x 3/4" NC) -----	4
7	H736645 Nut (3/8" NC - Jam) -----	6	48	H737999 Nut (1/4" NC - Lock) -----	4
8	H182121 Knob - Control Lever -----	6	49	H051755 Clamp - Tube -----	1
9	H219006 Links - Lever Casting To Spool -----	12	50	H061069 Cushion - Anti-Wear -----	1
10	H035279 Clevis Pin (3/16" x 57/64")	6	51	H709493 HHCS (5/16" x 2" NC) -----	3
11	H739623 Cotter Pin (1/16" x 1/2") -	12	52	H739201 Lock Washer (5/16") -----	3
12	H169318 Clevis Pin (1/4" x 51/64")	6	53	H052589 Clamp - Tube -----	1
13	H050914 Shaft - Valve Lever -----	1	54	H051748 Clamp - Tube -----	1
14	H742015 Roll Pin (3/16" x 1 1/4") -	1	55	H052571 Clamp - Spring Retainer ---	2
15	H050716 Spacer - Valve Lever Shaft -	2	56	H052548 Spring -----	2
16	H191908 Spacer -----	5	57	H750463 RHMS (1/4" x 1 1/4" NC) ---	3
17	H050880 Valve Linkage Cover -----	1	58	*G34186 Cylinder Asm - Boom, Crowd, Bucket (See Page 14 For Parts List) -----	3
18	H749499 STCS (5/16" x 3/4") -----	4	58	**H600841 Cylinder Asm - Boom, Crowd, Bucket (See Page 14 For Parts List) -----	3
19	H739201 Lock Washer (5/16") -----	4	59	H276758 Clamp -----	2
20	H102749 Decal - Control Lever Posn -	1	60	H738468 Flat Washer (3/8") -----	4
21	H709865 HHCS (3/8" x 1 1/4" NC) ---	4	61	H738476 Flat Washer (7/16") -----	3
22	H739219 Lock Washer (3/8") -----	4	A	H709436 HHCS (5/16" x 3/4" - NC) --	x
23	H710228 HHCS (7/16" x 3/4" NC) -----	3	B	H739201 Lock Washer (5/16") -----	x
24	H739227 Lock Washer (7/16") -----	3			
25	H514117 Stabilizer, Cylinder Asm (See Page 12 For Parts List) -----	2			
26	H031674 Adapter - 90° (7/8" Boss x 7/8" JIC M) -----	2			
27	H112573 Adapter - Straight (3/4" Boss x 3/4" JIC M) -----	10			
28	H593475 Tube Asm (5/8") -----	1			
29	H593467 Tube Asm (5/8") -----	1			
29A	H745174 "O" Ring (7/8) -----	2			
29B	H745166 "O" Ring (3/4") -----	16			
30	H593400 Tube Asm (1/2") -----	1			
31	H593418 Tube Asm (1/2") -----	1			
32	H593426 Tube Asm (1/2") Stab, Upper Port - Left -----	1			
33	H593442 Tube Asm (1/2") Stab, Lower Port - Left -----	1			
34	H593434 Tube Asm (1/2") Stab, Upper Port - Right -----	1			
35	H593459 Tube Asm (1/2") Stab, Lower Port - Right -----	1			
36	H268532 Hose (3/8" x 10") 9/16" Boss x 3/4" JIC M) -----	4			
36A	H745158 "O" Ring (9/16") -----	4			
37	H593376 Tube Asm (1/2") Left - Bucket -----	1			
38	H593384 Tube Asm (1/2") Right - Bucket -----	1			
39	H268565 Hose (3/8" x 42") 3/4" Boss x 3/4" JIC M) - W/Hose Guard -----	2			

*Up To Spec. #'s L15SD03, P15SD04, P15DV03, Q15SD02.
**Spec. #'s L15SD03, P15SD04, P15DV03, Q15SD02 & Up.

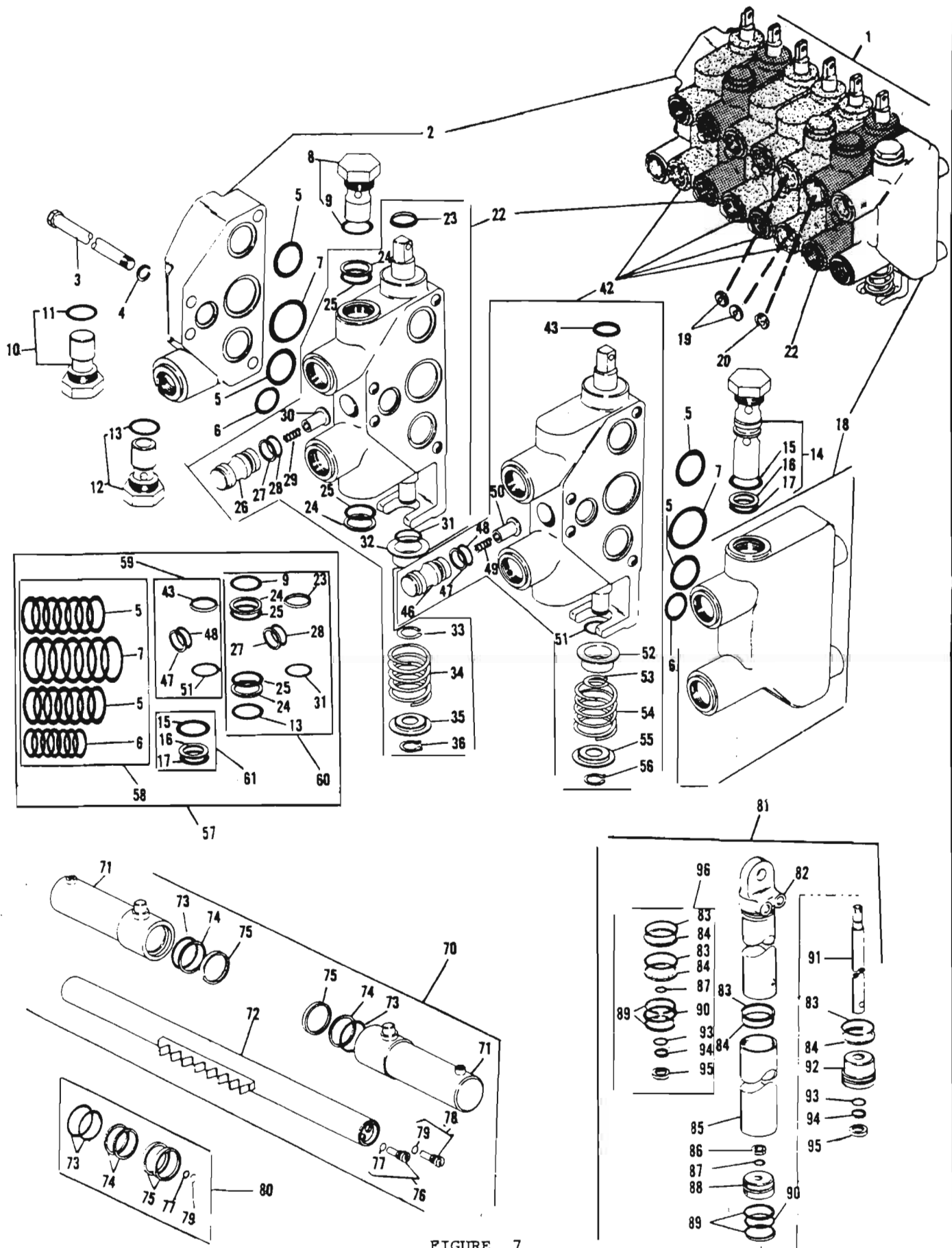
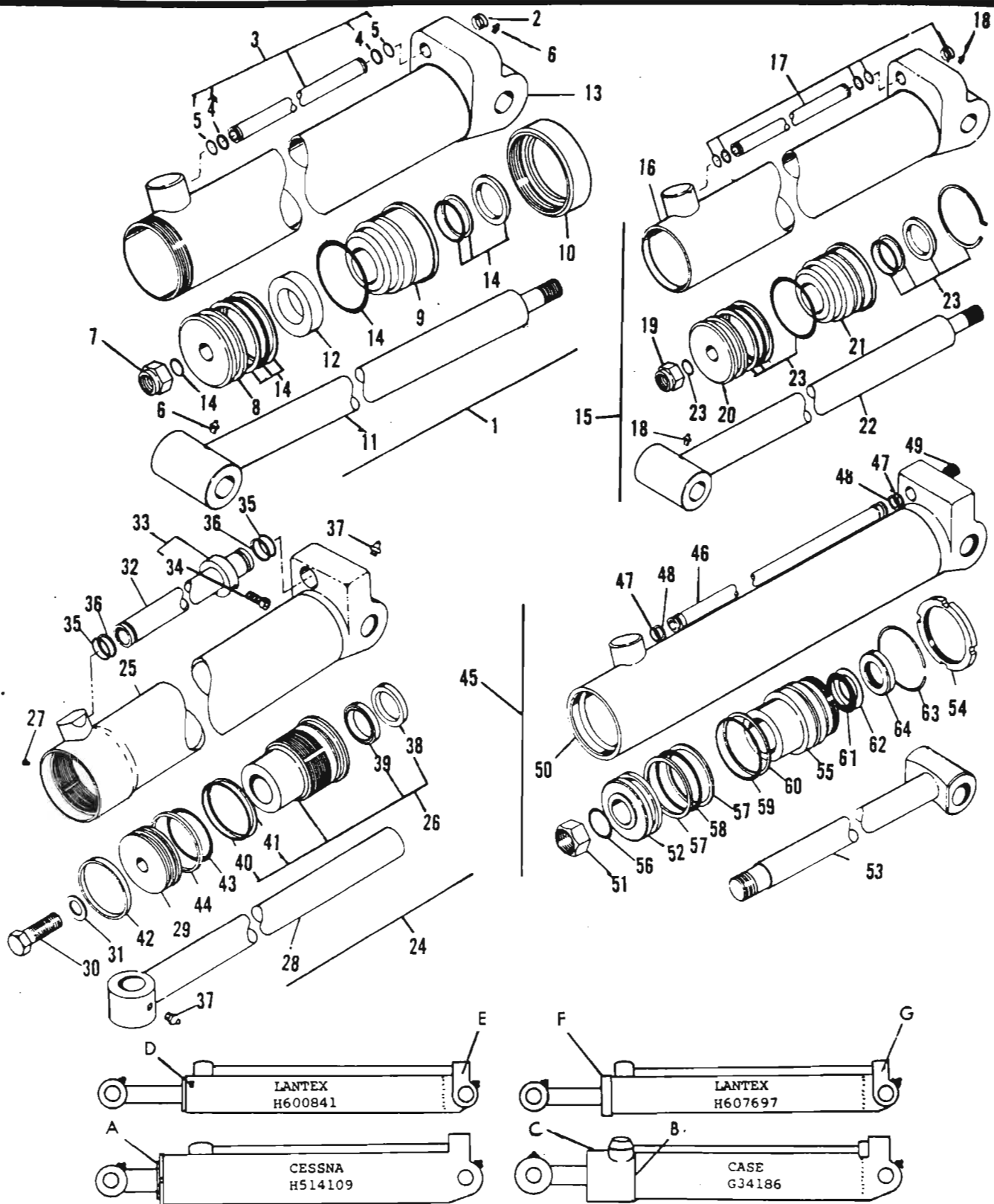


FIGURE 7

CONTROL VALVE, SWING CYLINDER, STABILIZER CYLINDER

Ref. Part No. No.	Description	No. Req.	Ref. Part No. No.	Description	No. Req.
1 H513788	Control Valve Asm -----	1	57 H052951	Major Seal Repair Kit -	
2 H052803	..End Plate Asm -----	1		Includes: 1 Ea. H052969	
3 H052811	..Bolt - Section Retaining	4		O Ring Set, 4 Ea. H052977	
4 H739219	..Washer (3/8" Lock) -----	4		Bucket, Stablizer & Swing	
5 H744805	..O" Ring - Section To			Section Seal Kit, 2 Ea.	
	Section -----	14		H052985 Boom & Crowd Sect	
6 H743344	..O" Ring - Section To			Seal Kit, 1 Ea. H052993	
	Section -----	7		Relief Valve Seal Kit -----	x
7 H744847	..O" Ring - Section To		58 H052969	O Ring Kit Includes:	
	Section -----	7		7 Ea. H743344 O Ring, 14	
8 H052829	Relief Valve - 3000 PSI			Ea. H744805 O Ring, 7 Ea.	
	(Top - Crowd & Boom Sect)	2		H744847 O Ring -----	x
9 H743351	..O" Ring - Relief Valve -	1	59 H052977	Bucket, Stab. & Swing Sect	
10 H052837	Plug Asm (Bottom - Crowd			Seal Kit Includes: 1 Ea.	
	Sect.) -----	1		H743336 O Ring, 1 Ea.	
11 H743351	..O" Ring - Plug -----	1		H744599 O Ring, 1 Ea.	
12 H052829	Relief Valve - 3000 PSI			H744649 O Ring, 1 Ea.	
	(Bottom - Boom Section) -	1		H060269 Back-Up Washer -----	x
13 H743351	..O" Ring - Relief Valve -	1	60 H052985	Boom & Crowd Sect Seal Kit	
14 H135756	Relief Valve - 2000 PSI			Includes: 1 Ea. H743336 O	
	(Top - Port Plate) -----	1		Ring, 1 Ea. H744599 O Ring,	
15 H743351	..O" Ring -----	1		1 Ea. H744649 O Ring, 1 Ea.	
16 H745653	..Backup Washer -----	1		H060269 Back-Up Washer, 4	
17 H743336	..O" Ring -----	1		Ea. H743351 O Ring, 2 Ea.	
18 H052852	Port Plate -----	1		H745661 Back-Up Washer -----	x
19 H061077	Orifice Plate - Swing Sect		61 H052993	Relief Valve Seal Kit In-	
	(.093" Dia.) -----	2		cludes: 1 Ea. H743351 O	
20 H175703	Orifice Plate - Upper Boom			Ring, 1 Ea. H743336 O Ring,	
	Section (.136" Dia.) -----	1		1 Ea. H745653 Back-Up	
22 H513630	Valve Section Asm - Boom			Washer -----	x
	& Crowd -----	2	70 H514125	Swing Cyl Asm -----	1
23 H744599	..Seal - Spool -----	1	71 H053009	..Barrel Asm -----	2
24 H745661	..Back Up Washer -----	2	72 H053017	..Piston Rod Asm -----	1
25 H743351	..O" Ring -----	2	73 H743591	..O Ring -----	2
26 H052886	..Body - Lift Check -----	1	74 H754606	..Back-Up Washer -----	2
27 H060269	..Back-Up Washer -----	1	75 H215202	..Oil Seal -----	2
28 H744649	..O" Ring -----	1	76 H053025	..Relief Valve Asm(2000 PSI	1
29 H047514	..Spring - Lift Check ----	1	77 H743351	....O Ring -----	1
30 H052894	..Plunger - Lift Check ----	1	78 H053033	..Relief Valve Asm(2000 PSI	1
31 H743336	..O" Ring -----	1	79 H743351	....O Ring -----	1
32 H052902	..Washer - Deep -----	1	80 H053041	Cylinder Seal Repair Kit --	x
33 H746164	..Washer - Special -----	1	81 H514117	Stab. Cylinder Asm -----	2
34 H031427	..Spring - Spool -----	1	82 H052654	..Barrel & Head Asm -----	1
35 H031401	..Washer - Shallow -----	1	83 H754598	..Back-Up Washer -----	2
36 H031450	..Ring - Retainer -----	1	84 H743989	..O Ring -----	2
42 H513648	Valve Section Asm - Bucket		85 H052662	..Outer Barrel -----	1
	Stabilizer & Swing -----	4	86 H737635	..Nut (5/8" - 18 Lock) ----	1
43 H744599	..Seal - Spool -----	1	87 H743344	..O Ring -----	1
46 H052886	..Body - Lift Check -----	1	88 H052670	..Piston -----	1
47 H060269	..Back-Up Washer -----	1	89 H745687	..Back-Up Washer -----	2
48 H744649	..O" Ring -----	1	90 H743484	..O Ring -----	1
49 H047514	..Spring - Lift Check ----	1	91 H052688	..Piston Rod -----	1
50 H052894	..Plunger - Lift Check ----	1	92 H052696	..Bearing -----	1
51 H743336	..O" Ring -----	1	93 H743401	..O Ring -----	1
52 H052902	..Washer - Deep -----	1	94 H751743	..Back-Up Washer -----	1
53 H746164	..Washer - Special -----	1	95 H746297	..Oil Seal -----	1
54 H031427	..Spring - Spool -----	1	96 H052704	Cylinder Seal Repair Kit --	x
55 H031401	..Washer - Shallow -----	1			
56 H031450	..Ring - Retainer -----	1			



When Ordering Replacement Parts For The D-100 Or SD-100 Boom, Crowd Or Bucket Cylinders, Use The Illustration Below For Proper Identification. All Cylinders Are Easily Recognized By Examining The Rod End Of The Cylinder.

Cessna Cylinder - Bearing Lock Nut At "A"

Case Cylinder - Enlarged Barrel "B" - Set Screw "C"

Lantex Cylinder - Lock Wire "D" - "LANTEX" At "E"

Lantex Cylinder - Bearing Collar - "F" - "LANTEX" At "G"

FIGURE 8

BOOM, BUCKET, CROWD CYLINDER

When ordering replacement parts for the D-100 on SD-100 Boom Bucket on Crowd Cylinder, use the illustrations at bottom of preceding page for proper identification. All Cylinders are easily recognized by examining the rod end of the cylinder.

Cessna Cylinder - Bearing Lock Nut At "A"

Case Cylinder - Enlarged Rod End "B" And Set Screw "C"

Lantex Cylinder - Lock Wire "O" - "Lantex At "E"

Lantex Cylinder - Bearing Collar - "F" - "Lantex At "G"

All Cylinders are completely interchangeable as complete assemblies.

Ref. Part No.	Part No.	Description	No. Req.	Ref. Part No.	Part No.	Description	No. Req.
1	H607697	Cylinder Asm - Boom, Crowd, Bucket (Lantex) -----	3	38	*+D95142	....Wiper -----	1
2	H286013	..Spring -----	1	39	*+D36969	....Seal -----	1
3	H602607	..Manifold Pipe Kit -----	1	40	*+A30095	....O Ring - Gland -----	1
4	H743302	....Backup Ring (Included In Seal Kit) -----	2	41	*+G32122	....Back-Up - Gland -----	1
5	H745620	....O Ring (Included In Seal Kit) -----	2	42	*G32033	....Ring - Piston Wear -----	1
6	H745257	..Grease Fitting -----	2	43	*A28318	....O Ring - Piston -----	1
7	H737676	..Lock Nut (1 1/8"-12 UNF) -	1	44	*G32034	....Ring - Piston Seal -----	1
8	H298059	..Piston -----	1	45	H514109	Cylinder Asm - Boom, Crowd, Bucket (Cessna) -----	3
9	H223081	..Gland -----	1	46	H052720	..Tube -----	1
10	H223032	..Collar -----	1	47	H743302	..O Ring -----	2
11	H608257	..Piston Rod Asm -----	1	48	H754622	..Back-Up Washer -----	2
12	H298018	..Spacer -----	1	49	H052712	..Spring -----	1
13	H608265	..Barrel Asm -----	1	50	H052738	..Barrel Asm -----	1
14	H608224	..Seal Repair Kit -----	1	51	H737676	..Nut (1 1/8-12 - Lock) ---	1
15	H600841	Cylinder Asm - Boom, Crowd, Bucket (Lantex) -----	3	52	H052746	..Piston -----	1
16	H602508	..Barrel Asm -----	1	53	H052787	..Piston Rod Asm -----	1
17	H602607	..Manifold Kit Asm -----	1	54	H745794	..Nut - Bearing -----	1
18	H745257	..Grease Fitting (1/8-27 NPTF) -----	2	55	H052753	..Bearing -----	1
19	H223024	..Lock Nut -----	1	56	*+H743435	....O Ring -----	1
20	H223073	..Piston -----	1	57	*+H754614	....Back-Up Washer -----	2
21	H223081	..Gland -----	1	58	*+H743583	....O Ring -----	1
22	H602516	..Piston Rod Asm -----	1	59	*+H744060	....O Ring -----	1
23	H587485	..Seal Repair Kit -----	x	60	*+H745760	....Back-Up Washer -----	1
24	G34186	Cylinder Asm - Boom, Crowd, Bucket (Case) -----	3	61	*+H743492	....O Ring -----	1
25	G34187	..Tube - Cylinder -----	1	62	*+H745695	....Back-Up Washer -----	1
26	G34185	..Gland Asm -----	1	63	*+H052761	....Lock Ring -----	1
27	187-1031	..Screw - Gland Lock -----	1	64	*+A41785	....Oil Seal -----	1
28	G34191	..Piston Rod -----	1	*Included In G32269 Seal Repair Kit			
29	G33747	..Piston -----	1	**Included In H052795 Seal Repair Kit			
30	28-1232	..HHCS (3/4" x 2" - NF) ---	1	+Included In G34185 Gland Asm			
31	G32317	..Piston Washer -----	1				
32	G34193	..Tube - Connector -----	1				
33	G34194	..Clamp Asm - Connector Tube -----	1				
34	165-31	....HHCS (10-32 x 1/2") ---	1				
35	A8613	..O Ring - Connector Tube -	2				
36	D54861	..Back-Up Ring - Connector Tube -----	2				
37	219-1	..Grease Fitting - Straight	2				

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15	G34187	13	H052704	11	H268565	7	H738054
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7	H905166
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7	H905182
7	H905190
15	28-1232
15	187-1031

TRAVEL THROUGH THE UNDERGROUND ANY WAY YOU WANT TO GO WITH DAVIS — ON TRACKS OR RUBBER!



Fleetline 7+2
7 hp



Fleetline 10+2
10 hp



Fleetline 12+2
12 hp



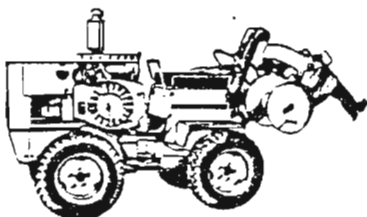
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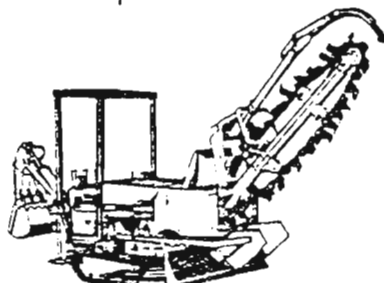
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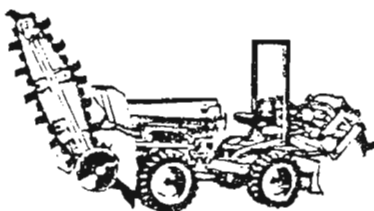
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Task Force 700
30 hp



Fleetline 30+4 Super
30 hp



Fleetline 30+4 Standard
30 hp



Fleetline 40+4 Super
37 hp



Fleetline 40+4 Standard
37 hp



Road Run'r
55 hp



Fleetline 70+4
65 hp



Task Force 1000 Super
65 hp

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