

33 Backhoe For 310G & 450 Crawler

Parts Catalog

C995

Reprinted

CASE

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

**MODEL 33 BACKHOE
FOR 310G CRAWLERS**

7

BACKHOE MOUNTING PARTS

REF.	PART NO.	DESCRIPTION	REQ'D.
1	D 37455	SUPPORT ARM - lower, R.H.	1
2	D 37454	SUPPORT ARM - lower, L.H.	1
3	D 34086	"U" BOLT - support arm mounting	2
4	D 34814	PLATE - lock	2
5	25- 1010	NUT - hex. (5/8" - 11 NC)	4
6	13- 14128	HHCS - 7/8" - 9 NC x 8"	4
7	D 26238	PLATE - lock	2
8	D 31122	CLAMP - upper half	2
9	131- 358	NUT - hex., lock (7/8" - 9 NC)	4
10	13- 1016	HHCS - 5/8" - 11 NC x 1"	2
11	92- 10	WASHER - med. sect. lock (5/8")	2
12	70523	WASHER - pin retaining	2
13	D 33697	PIN - upper to lower support arm	2
14	D 37461	SUPPORT ARM - upper, R.H.	1
15	D 37460	SUPPORT ARM - upper, L.H.	1
16	25- 1116	NUT - hex. (1" - 14 NF)	4
17	D 43381	TENSION ROD - upper to lower support arm	2
18	D 26918	RING - pin retaining	4
19	D 33816	PIN - tension rod to lower support arm	2
20	D 33805	KLIK PIN - pin retaining	2
21	D 38697	PIN - upper support arm to mounting frame	2

**MODEL 33 BACKHOE
FOR 310G AND 450 CRAWLERS**

**TOWER, BOOM, DIPPER ARM AND BUCKET
BOOM AND DIPPER ARM CAST TYPE CYLINDER ANCHORS**

REF.	PART NO.	DESCRIPTION	REQ'D.
46	D 37611	PIN - bucket cylinder to dipper arm	1
47	REF.	CYLINDER - hydraulic, bucket (See pages 129 thru 135 for proper cylinder)	1
48	D 25279	RING - retaining	4
49	D 28610	WASHER - special, 1/8" thick	6
50	D 37612	PIN - bucket cylinder to bucket linkage and dipper arm	2
51	D 37445	LINK - bucket cylinder to dipper arm, R.H.	1
52	D 30933	BUSHING - link, at bucket cylinder	1
53	D 32919	BUSHING - link, at dipper arm	1
54	D 37444	LINK - bucket cylinder to dipper arm, L.H.	1
55	D 30933	BUSHING - link, at bucket cylinder	1
56	D 32919	BUSHING - link, at dipper arm	1
57	D 29991	LINK - bucket cylinder to bucket (Early production) When stock is exhausted, use 2 - D37452 links, 2 - D39261 spacers and 1 - D37450 spacer for service	1
58	D 30929	BUSHING - link	4
59	D 37452	LINK - bucket cylinder to bucket (Late production)	2
60	D 30933	BUSHING - link	2
61	D 39261	SPACER - link, at bucket cylinder	2
62	D 37450	SPACER - link, at bucket	1
63	D 25279	RING - retaining	2
64	D 28610	WASHER - special, 1/8" thick	2
65	D 37614	PIN - bucket link to bucket (All buckets except heavy duty buckets)	1
65	D 37793	PIN - bucket link (Frost point)	1
65	D 30899	PIN - bucket link (Heavy duty bucket)	1
66	D 25280	RING - retaining (D37614 and D37793 pins only)	2
66	D 25279	RING - snap (D30899 pin only)	2
67	195- 2152	WASHER - flat, steel (1-13/16")	2
68	D 37613	PIN - bucket to dipper arm (See D40244 pin)	1
	D 40244	PIN - bucket to dipper arm (Used with D37472 and D41547 12" buckets only)	1
69	REF	BUCKET - backhoe (See pages 33 thru 39 for options)	1
70	219- 1	FITTING - straight, grease (1/8" NPT)	2-3
71	219- 55	FITTING - 90°, grease (1/8" NPT)	1
	D 42577	FROST POINT ASSEMBLY - backhoe	1
72	NSS	BODY - frost point	1
73	D 43416	POINT - tooth	1
74	D 43417	FLEX PIN - point	1

**MODEL 33 BACKHOE
FOR 450 CRAWLERS**

**HYDRAULIC EXTENDABLE DIPPER
TWO FOOT EXTENSION
MECHANICAL PARTS**

REF.	PART NO.	DESCRIPTION	REQ'D.
1	REF.	BOOM - backhoe (See page 19 for proper boom)	1
2	D 44486	DIPPER ARM ASSEMBLY - extension	1
3		RESERVED	
4	D 30933	BUSHING - dipper arm, at bucket link	2
5	D 37443	BUSHING - dipper arm, at bucket	2
6	219- 1	FITTING - straight, grease (1/8" NPT)	1
7	D 37609	PIN - boom to dipper arm	1
8	D 26919	RING - snap	2
8A	195- 2155	WASHER - flat, steel (2-1/16")	2
8B	72990	WASHER - special, 1/16" thick	UAR
9	D 44485	COLLAR ASSEMBLY - dipper extension	1
10	D 38479	BUSHING - at crowd cylinder	2
11	D 30756	BUSHING - at boom	2
12	D 47840	PLATE - wear	4
13	D 47841	SHIM - collar (.035" thick)	4
14	D 44461	PIN - extension cylinder mounting	2
15	13- 548	HHCS - 5/16" - 18 NC x 3"	2
16	92- 5	WASHER - med. sect. lock (5/16")	2
17	25- 105	NUT - hex. (5/16" - 18 NC)	2
18	REF.	CYLINDER - dipper, extension (See pages 137 and 139 for proper cylinder)	1
19	D 44460	PIN - bucket cylinder to dipper	1
20	D 25280	RING - snap	2
21	REF.	CYLINDER - hydraulic, bucket (See pages 129 thru 135 for proper cylinder)	1
22	D 37444	LINK - bucket cylinder to dipper arm (L.H.)	1
23	D 37445	LINK - bucket cylinder to dipper arm (R.H.)	1
24	D 30933	BUSHING - at bucket cylinder (D37444 and D37445 link)	1
25	D 32919	BUSHING - at bucket cylinder (D37444 and D37445 link)	1
26	D 39256	PIN - linkage mounting	2
27	D 28610	WASHER - special	4
28	195- 63	WASHER - plain (1-9/16")	2
29	D 25279	RING - snap	4
30	D 25280	RING - snap	2
31	195- 2155	WASHER - flat, steel (2-1/16")	2
32	D 38481	PIN - dipper cylinder to dipper	1
33	T 28060	WASHER - spacer	2
34	26- 1240	HHCS - 3/4" - 10 NC x 2-1/2" (Grade 8)	6
35	D 52779	BLOCK - stop	2
36	D 52780	BLOCK - tapped (Welded to dipper)	2
37	D 44470	PLATE - end, dipper	1

**MODEL 33 BACKHOE
FOR 310G AND 450 CRAWLERS**

BACKHOE BUCKETS (OPTIONAL TYPES)

REF.	PART NO.	DESCRIPTION	REQ'D.
BELLHOLE BUCKETS (MACHINERY ITEM)			
1	D 41547	BUCKET - backhoe, bellhole (12 inch)	1
2	D 37490	BLADE - cutting	1
3	D 40243	BUSHING - bucket, at dipper arm	2
4	D 30933	BUSHING - bucket, bucket link pin hole	2
1	D 41548	BUCKET - backhoe, bellhole (16 inch)	1
2	D 37518	BLADE - cutting	1
3	D 37495	BUSHING - bucket, at dipper arm	2
4	D 30933	BUSHING - bucket, bucket link pin hole	2
1	D 41549	BUCKET - backhoe, bellhole (30 inch)	1
2	D 37515	BLADE - cutting	1
3	D 37495	BUSHING - bucket, at dipper arm	2
4	D 30933	BUSHING - bucket, bucket link pin hole	2
COMBINATION BELLHOLE AND GRAVEYARD BUCKET (MACHINERY ITEM)			
5	D 41550	BUCKET - backhoe, combination bellhole and graveyard (36 inch)	1
6	D 37516	BLADE - cutting	1
7	D 37495	BUSHING - bucket, at dipper arm	2
8	D 30933	BUSHING - bucket, bucket link pin hole	2
BUCKET TEETH (STANDARD)			
9	D 26368	SHANK - tooth	UAR
10	D 27748	POINT - tooth (Standard)	UAR
11	D 36720	POINT - tooth, service option (Heavy duty)	UAR

**MODEL 33 BACKHOE
FOR 310G AND 450 CRAWLERS**

**INDIVIDUAL LEVER BACKHOE CONTROL
*(FOOT SWING)**

REF.	PART NO.	DESCRIPTION	REQ'D.
24	D 48247	LEVER - control, L.H. stabilizer (3/8" - 24 NF threaded end)	1
24	D 49983	LEVER - control, L.H. stabilizer (1/2" - 20 NF threaded end)	1
25	195- 2097	WASHER - flat, steel (15/16")	UAR
26	70213	KNOB - control lever (Used with 3/8" - 24 NF threaded levers)	5
26	D 49996	KNOB - control lever (Used with 1/2" - 20 NF threaded levers)	5
27	132- 25	PIN - cotter, 3/32" dia. x 5/8"	6
28	141- 4	PIN - yoke mounting	6
29	213- 4	YOKE - connecting rod	6
30	25- 156	NUT - hex., lock (3/8" - 24 NF)	6
31	D 30821	ROD - straight, connecting (R.H. and L.H. stabilizer, boom, bucket and swing control)	5
32	D 38314	ROD - bent (Dipper control)	1
33	132- 25	PIN - cotter, 3/32" dia. x 5/8"	6
34	141- 3	PIN - yoke mounting	6
35	132- 25	PIN - cotter, 3/32" dia. x 5/8"	3
36	D 21762	ROD - "L" bend, connecting (R.H. swing control)	1
37	141- 4	PIN - yoke mounting	1
38	213- 4	YOKE - connecting rod	1
39	D 37600	YOKE - connecting rod	1
40	D 30819	ROD - "L" bend, connecting (L.H. swing control)	1
41	219- 15	FITTING - grease, straight (5/16" drive type) Used with 3/8" - 24 NF threaded levers	6
41	219- 103	FITTING - grease, straight (1/8" NPT) Used with 1/2" - 20 NF threaded levers	6

*NOTE: See page 49 for swing pedals.

MODEL 33 BACKHOE FOR 310G CRAWLERS

BASIC BACKHOE HYDRAULICS

REF.	PART NO.	DESCRIPTION	REQ'D.
1	REF.	VALVE - equipment control (See Model 310G Crawler Parts Catalog Serial No. 3032301 and after for breakdown)	1
2	D 35401	FITTING - carryover	1
3	218- 5010	SEAL - "O"ring, large	1
4	L 32680	SEAL - "O"ring, small	1
5	D 35472	ELBOW - special (Used with 3 spool valves only)	1
	D 37824	ELBOW - special (Used with 2 spool valves only)	1
	D 38646	ELBOW - special (Used with 1 spool valves only)	1
6	218- 5008	SEAL - "O"ring	1
7	221- 12	PLUG - pipe, square head (1/4" NPT)	2
8	D 39150	TUBE - pressure	1
9	D 38617	BRACKET - mounting, tube clamp	1
10	R 11405	CLAMP - tube	1
11	13- 512	HHCS - 5/16" - 18 NC x 3/4"	1
12	95- 5	WASHER - standard wrot (5/16")	1
13	131- 4	NUT - hex., lock (5/16" - 18 NC)	1
14	D 31617	COUPLING - quick disconnect, male (Parts list page 79) . . .	2
15	D 31618	COUPLING - quick disconnect, female (Parts list page 79) . .	2
16	D 38618	HOSE - at backhoe control valve, inlet port (32" long)	1
17	218- 5010	SEAL - "O"ring	1
18	REF.	VALVE - backhoe control (See page 81 for proper valve)	1
19	D 37325	ADAPTER - special	1
20	218- 5010	SEAL - "O"ring	1
21	D 38619	HOSE - at backhoe control valve, outlet port (68" long)	1
22	D 41564	CLAMP - hose	1
23	13- 828	HHCS - 1/2" - 13 NC x 1-3/4"	1
24	92- 8	WASHER - med. sect. lock (1/2")	1
25	25- 108	NUT - hex. (1/2" - 13 NC)	1
26	D 39149	TEE - special	1

USED ON DOZER BACKHOE MODELS ONLY

27	218- 1022	CONNECTOR - straight	1
28	D 37822	TUBE - special elbow to dual main relief (Early production) .	1
28	D 51749	TUBE - special elbow to dual main relief (Late Production) . .	1
29	D 35678	ELBOW - swivel, 90°	1
	D 38570	VALVE - dual main relief	1
30	D 37045	BODY - valve	1
31	L 30444	SEAL - "O"ring, small	1
32	L 30443	RING - backup	1
33	218- 5006	SEAL - "O"ring, large	1
34	D 26266	SEAT - pilot	1
35	D 26267	PLUNGER - pilot	1
36	D 27258	SCREW - adjusting	1
37	D 27261	PISTON - relief valve	1
38	D 27259	SEAL - special	2
39	25- 1510	NUT - hex., jam (5/8" - 18 NF)	1
40	D 27260	FITTING - pilot	1
41	D 37043	SPRING - pilot (Used with D41525 retainer only) See ref.	
		no. 42	1
	D 26268	SPRING - pilot (Used with D41764 retainer only) See ref.	
		no. 42	1
42	D 41525	RETAINER - piston, early production (Code number "2") .	1
	D 41764	RETAINER - piston, late production (Code number "3") . .	1

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

**MODEL 33 BACKHOE
FOR 310G AND 450 CRAWLERS**

67

**BOOM, CROWD AND BUCKET CYLINDER HYDRAULICS
(USED BEFORE BACKHOE SERIAL NUMBER 4141636)**

REF.	PART NO.	DESCRIPTION	REQ'D.
45	REF.	CYLINDER - hydraulic, crowd (See pages 123 thru 127 for proper cylinder)	1
46	D 42624	TUBE - to crowd cyl., rod end (With 7/8" - 14 NF thread) . . .	1
46A	218- 5007	SEAL - "O" ring	1
47	D 39358	HOSE - valve to bucket cylinder (54" long)	2
48	13- 532	HHCS - 5/16" - 18 NC x 2"	2
49	195- 21	WASHER - plain (5/16")	4
50	131- 4	NUT - hex., lock (5/16" - 18 NC)	2
51	13- 556	HHCS - 5/16" - 18 NC x 3-1/2"	2
52	195- 21	WASHER - plain (5/16")	2
53	131- 4	NUT - hex., lock (5/16" - 18 NC)	2
54	D 26125	CLAMP - hose, outer	2
55	D 26124	CLAMP - hose, center	1
56	D 26231	NUT - hex., lock (Special)	2
57	D 37640	TUBE - to bucket cylinder, closed end	1
58	D 37638	TUBE - to bucket cylinder, rod end	1
59	131- 4	NUT - hex., lock (5/16" - 18 NC) Early Production	2
	13- 616	HHCS - 3/8" - 16 NC x 1" (Late Production)	1
60	195- 21	WASHER - plain (5/16" - 18 NC) Early Production	2
	92- 6	WASHER - med. sect. lock (3/8") Late Production	1
61	49858	CLAMP - tube (Early Production)	4
	D 40236	CLAMP - tube (Late Production)	1
62	D 38665	SPACER - tube (Early Production Only)	2
63	D 37330	SPACER - tube (Early Production Only)	1
64	D 37635	HOSE - to bucket cylinder (40" long)	2
65	D 37229	SPACER BAR - tube	1
66	13- 516	HHCS - 5/16" - 18 NC x 1"	3
67	49858	CLAMP - tube	3
68	195- 21	WASHER - plain (5/16")	3
69	131- 4	NUT - hex., lock (5/16" - 18 NC)	3
70	D 37632	TUBE - to bucket cylinder, closed end	1
71	D 37636	TUBE - to bucket cylinder, rod end	1
72	218- 5065	CONNECTOR - male, straight	2
73	218- 5007	SEAL - "O" ring	1
74	REF.	CYLINDER - hydraulic, bucket (See pages 129 thru 135 for proper cylinder)	1
75	131- 4	NUT - hex., lock (5/16" - 18 NC) Early Production	1
	13- 610	HHCS - 3/8" - 16 NC x 5/8" (Late Production)	1
76	195- 21	WASHER - plain (5/16" - 18 NC) Early Production	1
	92- 6	WASHER - med. sect. lock (3/8") Late Production	1
77	49858	CLAMP - tube (Early Production)	2
	D 41165	CLAMP - tube (Late Production)	2

**MODEL 33 BACKHOE
FOR 310G AND 450 CRAWLERS**

77

BOOM LOCKOUT HYDRAULICS

REF.	PART NO.	DESCRIPTION	REQ'D.
1	REF.	VALVE - backhoe control (See page 81 for proper valve)	1
2	13- 660	HHCS - 3/8" - 16 NC x 3-3/4"	3
3	92- 6	WASHER - med. sect. lock (3/8")	3
4	218- 5064	CONNECTOR - male, straight	1
5	218- 5008	SEAL - "O" ring	1
6	D 49934	TUBE - backhoe control valve to lockout valve, boom section lower port.	1
7	D 49939	HOSE - backhoe control valve to lockout valve (29" long)	1
8	218- 5108	ELBOW - male, 90°	2
9	218- 5008	SEAL - "O" ring	1
10	REF.	VALVE - boom lockout (Parts list page 93)	1
11	D 50772	BRACKET - mounting, lockout valve (Welded to frame)	1
12	13- 652	HHCS - 3/8" - 16 NC x 3-1/4"	2
13	92- 6	WASHER - med. sect. lock (3/8")	2
14	25- 106	NUT - hex. (3/8" - 16 NC)	2
15	D 49937	HOSE - lockout valve to relief valve (50" long)	1
16	218- 5108	ELBOW - male, 90°	2
17	218- 5008	SEAL - "O" ring	1
18	D 46850	VALVE - relief, hydraulic (Parts list below)	1
19	13- 644	HHCS - 3/8" - 16 NC x 2-3/4"	2
20	92- 6	WASHER - med. sect. lock (3/8")	2
21	25- 106	NUT - hex. (3/8" - 16 NC)	2
22	218- 5158	PLUG - relief valve	1
23	218- 5008	SEAL - "O" ring	1
24	218- 5064	CONNECTOR - male, straight	1
25	218- 5008	SEAL - "O" ring	1
26	D 50373	HOSE - relief valve to boom cylinder, rod end (23" long) at relief valve	1
26AD	38124	HOSE - relief valve to boom cylinder (57" long) at cylinder	1
27	REF.	CYLINDER - hydraulic, boom (See pages 113 thru 121 for proper cylinder)	1
28	D 49938	HOSE - relief valve to return tee (34" long)	1
29	218- 446	CONNECTOR - male, straight (Hose to tee)	1
30	221- 425	TEE - pipe, female (3/4" NPT)	1
31	D 37325	CONNECTOR - male, straight (At valve)	1
32	218- 5010	SEAL - "O" ring	1
33	221- 212	NIPPLE - pipe (3/4" NPT x 1-1/2")	1
34	D 31617	COUPLING - quick disconnect, male (Parts list page 79)	1
35	D 31618	COUPLING - quick disconnect, female (Parts list page 79)	1
36	D 49118	HOSE - return, 33" long (33 Backhoe)	1

D46850 RELIEF VALVE

REF.	PART NO.	DESCRIPTION	REQ'D.
	D 46850	VALVE - relief (Parker no. VPRD5X-1A-310)	1
37	NSS	BODY - valve	1
38	41- 20	PLUG - welch, 1-1/4"	1
39	NSS	NUT - lock, special	1
40	NSS	GUIDE - spring	1
41	A 30843	SEAL - "O"ring, large	1
42	L 31330	RING - backup	1
43	A 30825	SEAL - "O"ring, small	1
44	NSS	SPRING - poppet	1
45	NSS	POPPET	1
46	NSS	SEAT - poppet	1

**MODEL 33 BACKHOE
FOR 310G AND 450 CRAWLERS**

87

D40750 BACKHOE BUCKET AND CROWD SECTION

REF.	PART NO.	DESCRIPTION	REQ'D.
1	D 40750	BUCKET AND CROWD SECTION - backhoe control valve . . .	2
2	71- 412	FHMS - 1/4" - 20 NC x 3/4"	2
3	D 26823	CAP - bucket and crowd section	1
4	D 26833	BOLT - stripper, special	1
5	D 26831	GUIDE - spring	2
6	D 40201	SPRING - centering	1
7	D 26830	PLATE - retaining	1
8	D 26829	RING - backup	1
9	D 36830	SEAL - quad ring	2
10	NSS	SPOOL - bucket and crowd section	1
11	NSS	HOUSING - bucket and crowd section	1
12	D 30696	CAP - check valve	1
13	G 46847	SEAL - "O"ring	1
14	D 26826	SPRING - check valve	1
15	D 26824	POPPET - check valve	1
	D 42866	CARTRIDGE - secondary relief (Not preset) Must be set to correct pressure when installed on valve	2
16	129- 526	NUT - acorn (3/8" - 24 NF)	1
17	23150	GASKET - copper	2
18	25- 156	NUT - hex., jam (3/8" - 24 NF)	1
19	D 38814	SCREW - set, special	1
20	NSS	BODY - cartridge	1
21	D 26872	SEAL - "O"ring, 1/2" I.D. x 5/8" O.D.	1
22	D 31450	WASHER - gasket	1
	D 42865	KIT - seat, poppet and spring	1
23	D 40778	SPRING - relief valve	1
24	NSS	POPPET - relief valve	1
25	NSS	SEAT - relief valve	1
26	D 31411	SEAL - "O"ring, 1/4" I.D. x 3/8" O.D.	1
27	D 26820	SEAL - "O"ring, 1-9/16" I.D. x 1-3/4" O.D.	1
28	D 26819	SEAL - "O"ring, 1-5/16" I.D. x 1-1/2" O.D.	3

**D38694, D38695 & D40794 STABILIZER CYLINDERS
3-1/2" DIA. CYLINDER WITH 16-3/8" STROKE
W/SPLIT TYPE INNER & OUTER WIPERS
WITHOUT GLAND IDENTIFICATION RING**

REF.	PART NO.	DESCRIPTION	REQ'D
D	38695	CYLINDER ASSY. - right hand (w/45° front port angle) (Order G32588)(See Page 99)	1
D	38694	CYLINDER ASSY. - left hand (w/45° front port angle) (Order G32589)(See Page 99)	1
D	40794	CYLINDER ASSY. - (w/front port on top) (Order G32136)(See Page 101)	2
2	D 38693	TUBE ASSY. - right hand (used w/D38695 cyl.) (w/45° front port angle)(Incl. Item 4)	1
2	D 38692	TUBE ASSY. - left hand (used w/D38694 cyl.) (w/45° front port angle)(Incl. Item 4)	1
3	D 37792	TUBE ASSY. - (used w/D40794 cyl.) (w/front port on top)	1
4	D 32865	BUSHING - tube	2
5	D 45069	GLAND - (w/o identification ring) (Order G32743 gland)(See Page 99)	1
	D 42873	PACKING KIT - gland (Replaces D37356 & D41399)	1
7	D 27432	WIPER - piston rod, inner & outer (split type)	2
8	A 14515	"O" RING - wiper (1-7/8 x 2-1/8 x 1/8")	2
9	D 36970	SEAL - piston rod (1-3/4 x 2-1/4 x 3/8")	1
10	D 28499	RING - rod seal back-up	1
11	G 15457	"O" RING - gland (3-1/2 x 3-3/4 x 1/8")	1
12	D 27434	RING - gland "O" ring back-up	1
13	187- 1031	SCREW - gland lock (#8-32 x 1/4" self-tapping)	1
14	D 37789	ROD ASSY. - piston (1-3/4" dia.)(w/o identification ring)	1
15	D 32865	BUSHING - piston rod	2
16	D 28369	PISTON - split (rod end)(w/o identification ring)	1
17	D 28367	PISTON - split (bolt end)	1
18	D 36963	PACKING ASSY. - piston ("V" type) (used w/D38694 & D38695 cylinders)	1
19	D 42808	PACKING - piston ("V" type)(used w/D40794 cyl.)	2
20	D 43545	RING - center bearing (used w/D40794 cyl.)	1
21	G 32303	WASHER - piston bolt (1 x 1-7/8 x 3/64")	1
22	D 32861	BOLT - piston (1 x 2-1/2" N.F. hex.)	1
23	219- 1	FITTING - grease (1/8" P.T., str.)	1

**G32586 AND G32587 SWING CYLINDERS
4" DIA. CYLINDER WITH 11" STROKE
WITHOUT GLAND IDENTIFICATION RING
W/SOLID OUTER WIPER & SPLIT INNER WIPER**

REF.	PART NO.	DESCRIPTION	REQ'D
	G 32587	CYLINDER ASSY. - right hand (See Note)	1
	G 32586	CYLINDER ASSY. - left hand (See Note)	1
2	D 47555	TUBE ASSY. - cyl. body, right hand	1
2	D 47554	TUBE ASSY. - cyl. body, left hand	1
3	D 30735	BUSHING - tube	2
	G 32738	GLAND ASSY.	1
4	NSS	GLAND - (w/out identification ring)	1
5*	D 95143	WIPER - piston rod, outer (1-3/4 x 2-1/4 x 5/16") . . .	1
6*	D 36970	SEAL - piston rod (1-3/4 x 2-1/4 x 7/16")	1
7*	D 27432	WIPER - piston rod, inner (split type)	1
8*	A 27507	"O" RING - gland (4 x 4-1/4 x 1/8")	1
9*	G 32176	RING - gland "O" ring back-up	1
10	187- 1031	SCREW - gland lock (#8-32 x 1/4" self tapping)	1
11	D 49008	ROD ASSY. - piston (1-3/4" dia.) (without identification ring)	1
12	D 32865	BUSHING - piston rod	2
13	D 95035	WASHER - piston rod (1-1/4 x 1-11/64 x 13/64")	1
14	D 49160	PISTON - split (rod end)(w/o identification ring)	1
15	D 49161	PISTON - split (bolt end)	1
16*	D 47204	PACKING ASSY. - piston ("V" type)	2
17	D 47209	RING - center bearing	1
18	D 41359	BOLT - piston & restrictor pin	1
19	G 32351	WASHER - bolt (1-11/32 x 2-1/2 x 9/64")	1
20	D 38679	PIN - restrictor	1
21	D 38683	SPRING - pin (5" free length)	1
22	D 38684	SEAT - spring (3/4" dia. x 1/8")	1
23	219- 1	FITTING - grease (1/8" P.T., str.)	1
	G 32297	SEAL KIT - cylinder repair (Incl. all items w/*)	1

NOTE: USES D47557 RELIEF VALVE. SEE PAGE 111

G32594 BOOM CYLINDER
4" DIA. CYLINDER WITH 39-3/16" STROKE
WITH SOLID OUTER WIPER & SPLIT INNER WIPER
WITH RING WELD STYLE CYLINDER TUBE

REF.	PART NO.	DESCRIPTION	REQ'D
	G 32594	CYLINDER ASSY.	1
1	D 43299	TUBE ASSY. - (ring weld)	1
2	D 33047	BUSHING - tube	2
	G 32737	GLAND ASSY.	1
4	NSS	GLAND	1
5*	D 95144	WIPER - piston rod, outer (2 x 2-1/2 x 5/16")	1
6*	D 36971	SEAL - piston rod (2 x 2-1/2 x 7/16")	1
7*	D 27380	WIPER - piston rod, inner (split type)	1
8*	A 27507	"O" RING - gland (4 x 4-1/4 x 1/8")	1
9*	G 32176	RING - gland "O" ring back-up	1
10	187- 1031	SCREW - gland lock (#8-32 x 1/4" self tapping)	1
11	D 40410	ROD ASSY. - piston (2" dia.)	1
12	D 33047	BUSHING - piston rod	2
13	D 46424	PISTON - split (rod end)	1
14	D 46930	PISTON - split (bolt end)	1
15*	D 47204	PACKING ASSY. - piston ("V" type)	2
16	D 47209	RING - center bearing	1
17	D 41359	BOLT - piston & restrictor pin	1
18	G 32351	WASHER - bolt (1-11/32 x 2-1/2 x 9/64")	1
19	D 38679	PIN - restrictor	1
20	D 38683	SPRING - restrictor pin (5" free length)	1
21	D 38684	SEAT - spring (3/4" dia. x 1/8")	1
22	219- 1	FITTING - grease (1/8" P.T., str.)	2
	G 32299	SEAL KIT - cylinder repair (Incl all items w/*)	1

**G32593 DIPPER CYLINDER
4" DIA. CYLINDER WITH 35-1/8" STROKE
W/SOLID OUTER WIPER & SPLIT INNER WIPER
WITHOUT GLAND IDENTIFICATION RING**

REF.	PART NO.	DESCRIPTION	REQ'D
	G 32593	CYLINDER ASSY.	1
1	G 32713	TUBE ASSY. - cyl. body (Replaces D43298)	1
2	D 33047	BUSHING - tube	1
	G 32737	GLAND ASSY.	1
4	NSS	GLAND - (w/o identification ring)	1
5*	D 95144	WIPER - piston rod, outer (2 x 2-1/2 x 5/16")	1
6*	D 36971	SEAL - piston rod (2 x 2-1/2 x 7/16")	1
7*	D 27380	WIPER - piston rod, inner (split type)	1
8*	A 27507	"O" RING - gland (4 x 4-1/4 x 1/8")	1
9*	G 32176	RING - gland "O" ring back-up	1
10	187- 1031	SCREW - gland lock (#8-32 x 1/4" self tapping)	1
11	D 37728	ROD ASSY. - piston (2" dia.)(w/o identification ring)	1
12	D 33047	BUSHING - piston rod	2
13	D 46424	PISTON - split (rod end)(w/o identification ring)	1
14	D 46930	PISTON - split (bolt end)	1
15*	D 47204	PACKING ASSY. - piston ("V" type)	2
16	D 47209	RING - center bearing	1
17	28- 2040	BOLT - piston (1-1/4 x 2-1/2" N.F. hex.)	1
18	G 32351	WASHER - piston bolt (1-11/32 x 2-1/2 x 9/64")	1
19	219- 1	FITTING - grease (1/8" P.T., str.)	1
20	219- 55	FITTING - grease (1/8" P.T., 90°)	1
	G 32299	SEAL KIT - cylinder repair (Incl. all items w/*)	1

**D45895 DIPPER EXTENSION CYLINDER
3-1/2" DIA. CYLINDER WITH 25-1/2" STROKE
W/SPLIT TYPE INNER & OUTER WIPERS.**

REF.	PART NO.	DESCRIPTION	REQ'D
1	D 45895	CYLINDER ASSY.	1
2	D 45900	TUBE ASSY. - cylinder body	1
3	D 31140	BUSHING - tube	2
4	D 45069	GLAND - (Order 1-G32743 gland)(See Page 139)	1
	D 42873	PACKING KIT - gland (Replaces D37356 & D42873)	1
5	D 27432	WIPER - piston rod, inner & outer (split type)	2
6	A 14515	"O" RING - wiper (1-7/8 x 2-1/8 x 1/8")	2
7	D 36970	SEAL - piston rod (1-3/4 x 2-1/4 x 7/16")	1
8	D 28499	RING - rod seal back-up	1
9	G 15457	"O" RING - gland (3-1/2 x 3-3/4 x 1/8")	1
10	D 27434	RING - gland "O" ring back-up	1
11	187- 1031	SCREW - gland lock (#8-32 x 1/4" self tapping)	1
12	D 45896	ROD ASSY. - piston (1-3/4" dia.)	1
13	D 33047	BUSHING - piston rod	2
14	D 28369	PISTON - split (rod end)	1
15	D 28367	PISTON - split (bolt end)	1
16	D 47203	PACKING ASSY. - piston ("V" type)(Replaces D42808)	2
17	D 47208	RING - center bearing (Replaces D43545)	1
18	D 32861	BOLT - piston (1 x 2-1/2" N.F. hex.)	1
19	D 36505	WASHER - piston bolt (1-1/16 x 1-7/8 x 9/64")	1

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL