



Allied Systems
COMPANY
WINCH DIVISION

PARTS MANUAL

**TOWING WINCH
W6E / D6E
(CAT ONLY)**

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INDEX

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UNIT IDENTIFICATION

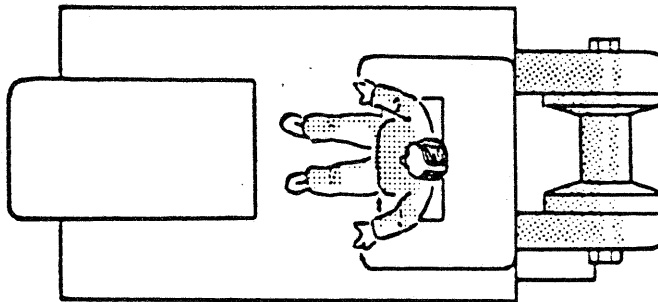
UNIT SERIAL NO.

X	O	X	0000	X
I	I	I	I	I
(1)	(2)	(3)	(4)	(5)

- (1) & (2) The first letter and number denote the design series and model of the unit.
- (3) The second letter denotes the plant at which the unit was manufactured.
- (4) The number series denotes the serial number of the unit.
- (5) The final letter denotes the year of manufacture starting with "A" in 1957. The letters "I", "O", and "Q" will not be used.

**Parts Referred To In This Book As Right Or Left Hand Parts
Are In Accordance With The Sketch Below**

R. H. Side



L. H. Side

CAUTION!

**Never Attempt To Clean, Oil Or Adjust A Machine
While It Is In Motion**

**NOTE: All Studs and Capscrews used in this Winch
are Heat-treated.**

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How To Use The Illustrated Parts Manual

This Parts Book describes and illustrates assemblies, sub-assemblies and detail parts needed for service replacement.

D888
Form 853
REVISION NO. 2
2/64

INDEX

Service, Operation and Installation Instructions

Frames, Covers and Mounting

Gear Train and Shaft Groups

Hydraulic System and Controls

Optional Equipment

Numerical Index

Section Q
NUMERICAL INDEX

FILTER
FIRST USED ON WINCH SERIAL NO. 868P-2081

KEY
A-FOR D8 TRACTORS.
B-FOR D9 TRACTORS.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	147461	FILTER	1
2	149295	HEAD ASSEMBLY	1
3	149297	RELIEF VALVE ASSEMBLY	1
4	149298	O-RING	1
5	147463	RING-BACK UP ELEMENT	1
6	149296	CASE	1
7	16029	CAPSCREW-1/2 UNC X 1	1
8	15158	LOCKWASHER-1/2	1
9	154760	PLATE	1
10	151713	PLATE	1
11	15057	NUT-7/16 UNC	1
12	15157	LOCKWASHER	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
12	16362	ELBOW	1
13	16487	O-RING	1
14	16589	LOCKNUT	1
15	151714	CLAMP	1
16	15156	LOCKWASHER-3/8	1
17	16070	CAPSCREW-3/8 UNC X 1/2	1
18	38760	WASHER	1
19	18578	CAPSCREW-7/16 UNC	1
20	147455	WASHER	1

When The Part Number Is Not Known

1. **USE:** Determine the function and application of the part required. Turn to the index page immediately behind the front cover and select the most appropriate section.
2. Line up the black arrow with the black tab on

the index page of the selected section. Use the section index to determine the assembly which would normally contain the part required. Proceed then to locate the part on the assembly breakdown page.

When The Part Number Is Known

3. Use the numerical index (section Q) to find the part number. Turn to the page listed and locate the required part in the assembly breakdown.

GENERAL: The assembly breakdowns include part numbers, description, quantities required, keys and footnotes to help in selecting the correct parts.

4. Keys are used to show effective serial numbers, two or more similar assemblies. Select the appropriate key, "A," "B," "C" or "D" and find the required part in the corresponding column.
5. Indent numbers are used to indicate assemblies and sub-parts of assemblies. Number 1 is the major assembly. Part descriptions which are indented under 2, 3 or 4 are sub-parts of that major assembly shown above.
6. Quantities shown are for one assembly. Note that two assemblies are shown, but the quan-

ties of the sub-parts are indicated as one. This means one per assembly.

7. The revision number and date on the index page, indicates the latest printing of the manual.

DEALERS NOTE: When supplements are issued to up-date the manuals, the index page with the latest revision number and date are included with the supplement. Be sure the index pages are added to the manuals in your possession.

ORDERING PARTS:

When ordering replacement parts, give the winch serial number, manual form number (and revision number, if any), part number, name of part and quantity required.

For any further information on parts, service, or ordering, consult your Hyster dealer.

Section B

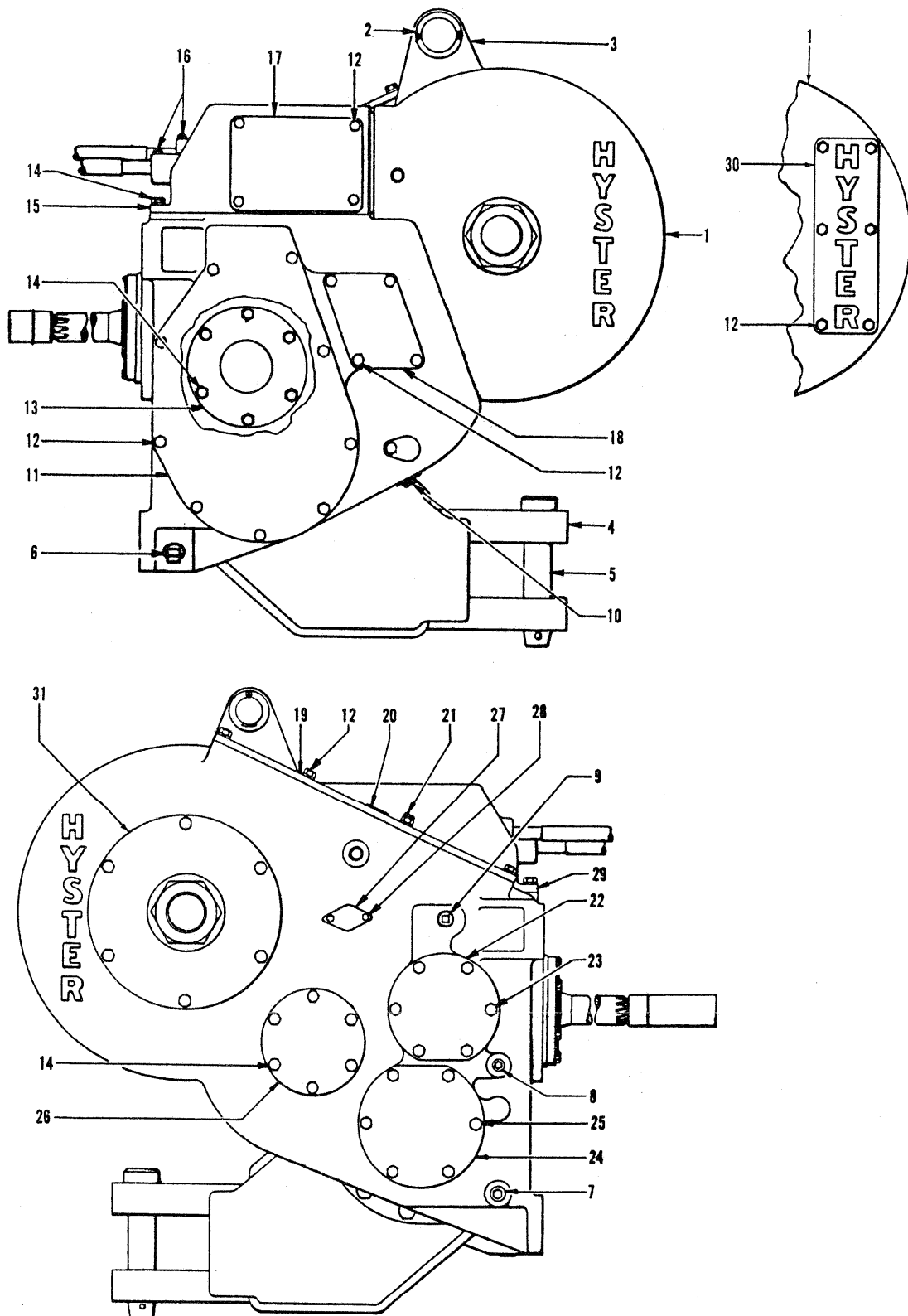
FRAMES, COVERS AND MOUNTING STUDS

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FRAMES AND COVERS



FRAMES AND COVERS

KEY

A-FOR DIRECT DRIVE WINCH.

B-FOR POWER CONTROL WINCH.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
1	.....	FRAME-WINCH	1	1
2	95981	ROD-TIE	1	1
2	196280	ROD-TIE	1	1
2	15272	COTTER-3/8 X 3	2	2
3	173609	BRACKET-TIE ROD	2	2
3	196278	BRACKET-TIE ROD	2	2
4	* 141606	BRACKET	1	1
4	□ 141612	BRACKET	1	1
4	% 141617	BRACKET-RH	1	..
4	% 141618	BRACKET-LH	1	..
4	%# 155771	BRACKET-RH	..	1
4	%# 155770	BRACKET-LH	..	1
4	%\$ 141630	BRACKET-RH	..	1
4	%\$ 141629	BRACKET-LH	..	1
5	* 95959	PIN-DRAWBAR	1	1
5	* 15273	COTTER-3/8 X 2 1/2	1	1
5	□	PIN-DRAWBAR, PG. B3 REF. 2	1	1
5	□	COTTER-PAGE B3 REF. 2	1	1
6	15316	PLUG-PIPE, 3/4	1	1
7	35503	PLUG-MAGNETIC, 3/4	1	1
8	15303	PLUG-PIPE, 1/2	1	1
9	15320	PLUG-PIPE, 2	1	..
10	15308	PLUG-PIPE, 1 1/4	1	1
11	95953	COVER-BRAKE	1	1
11	95954	GASKET	1	1
12	16829	CAPSCREW-1/2 UNC X 1 G5	25	21
12	178403	CAPSCREW-1/2 UNC X 1 G5	25	21
12	15158	LOCKWASHER-1/2	25	21
12	\$ 178403	CAPSCREW-1/2 UNC X 1 G5	..	9
12	\$ 15158	LOCKWASHER-1/2	..	9
12	\$ 16597	CAPSCREW-3/8 UNC X 3/4 G5	..	12
12	\$ 15156	LOCKWASHER-3/8	..	12
13	95942	CARRIER-BEARING	1	..
13	95966	CARRIER-BEARING	..	1
13	110934	SHIM-.005	AR	AR
13	110935	SHIM-.007	AR	AR
13	110936	SHIM-.020	AR	AR
14	16830	CAPSCREW-1/2 UNC X 1 1/4 G5	17	12
14	178402	CAPSCREW-1/2 UNC X 1 1/4 G5	17	12
14	15158	LOCKWASHER-1/2	17	12
15	141691	HOUSING-CONTROLS	1	..
15	& 201861	HOUSING-CONTROLS	1	..
15	.....	HOUSING-CONTROL VALVE, PAGE F1 REF. 49	..	1
15	141692	GASKET	1	..
15	& 201862	GASKET	1	..
16	16212	SETSCREW-3/8 UNC X 1 1/4	2	..
16	15086	NUT-JAM, 3/8 UNC	2	..
17	95985	COVER	1	..
17	185975	COVER	..	1
17	\$ 198356	COVER	..	1
17	95986	GASKET	1	..
17	185976	GASKET	..	1
17	\$ 198357	GASKET	..	1
18	95955	COVER	1	1
18	& 185973	COVER	1	1
18	95956	GASKET	1	1
18	& 185974	GASKET	1	1
19	** 201858	COVER-TOP RH	1	1
19	□ 151590	COVER-TOP RH	1	..
19	% 151575	COVER-TOP RH	1	1
19	95958	GASKET	1	1
20	15319	PLUG-PIPE, 1 1/2	1	1
21	21420	PLUG-VENT	1	1
22	95948	RETAINER-BEARING	1	..
22	96472	RETAINER-BEARING	..	1
22	110934	SHIM-.005	AR	..
22	110935	SHIM-.007	AR	..
22	110936	SHIM-.020	AR	..
22	134107	SHIM-.005	..	AR
22	134108	SHIM-.007	..	AR
22	134109	SHIM-.020	..	AR
23	18588	CAPSCREW-1/2 UNC X 1 1/2 G5	6	..
23	16830	CAPSCREW-1/2 UNC X 1 1/4 G5	..	7
23	15158	LOCKWASHER-1/2	6	7
24	95970	CARRIER-BEARING	1	1
24	95033	SHIM-.005	AR	AR
24	95166	SHIM-.007	AR	AR
24	95034	SHIM-.020	AR	AR
25	18588	CAPSCREW-1/2 UNC X 1 1/2 G5	6	6
25	178402	CAPSCREW-1/2 UNC X 1 1/2 G5	6	6
25	15158	LOCKWASHER-1/2	6	6
26	93254	RETAINER-BEARING	1	1
26	149541	SHIM-.005	AR	AR
26	149542	SHIM-.007	AR	AR
26	149543	SHIM-.020	AR	AR
27	** 151589	COVER	1	1
27	151581	SHAFT-FREE SPOOL SHIFTER	1	1
27	** 151646	GASKET	1	1
28	16829	CAPSCREW-1/2 UNC X 1 G5	2	2
28	15158	LOCKWASHER-1/2	2	2
29	.....	COVER-TRANS., PAGE E1 REF. 4	..	1
29	.....	AND PAGE F1 REF. 73	1	1
30	&& 185824	COVER PLATE	..	1
30	&& 185990	GASKET	..	1
31	.....	RETAINER-DRUM, PG.D6 REF. 11	1	1
	167622	GASKET KIT	1	..
	167621	GASKET KIT	..	1
	\$ 201871	GASKET KIT	1	..

*FOR WINCHES WITH RIGID DRAWBAR.

□FOR WINCHES WITH SWIVELING DRAWBAR.

%FOR WINCHES WITH SWINGING DRAWBAR.

&FIRST USED ON SERIAL NO. D39P-2334.

@FIRST USED ON SERIAL NO. D39P-2280.

#FOR D5 TRACTOR SERIAL NO. 81H1-84H1 & UP, 95J1 & UP, 96J1 & UP.

\$FOR D6 TRACTOR SERIAL NO. 10K1 & UP, 74A1 & UP, 76A1 & UP, 99J1 & UP.

**FOR WINCHES WITHOUT FREE SPOOL.

□□FOR WINCH WITH FREE SPOOL ON D5 TRACTOR

SERIAL NO. 81H1 & UP, 82H1 & UP, 93J1 & UP, 94J1 & UP, D6 TRACTOR SERIAL NO. 8U1 & UP, 9U1 & UP, 37A1 & UP, 44A1 & UP.

%FOR DIRECT DRIVE & POWER CONTROL WINCH WITH FREE SPOOL ON D6 TRACTOR SERIAL NO. 74A1 & UP, 99J1 & UP, FOR POWER CONTROL WINCH ONLY WITH FREE SPOOL ON D5 TRACTOR SERIAL NO. 81H-84H1 & UP, 95J1 & UP, 96J1 & UP, D6 TRACTOR SERIAL NO. 10K1 & UP, 76A1 & UP.

@@FIRST USED ON SERIAL NO. C82P-2700 AND C82S-1547.

&&FIRST USED ON SERIAL NO. C82P-2742 AND D39P-2175.

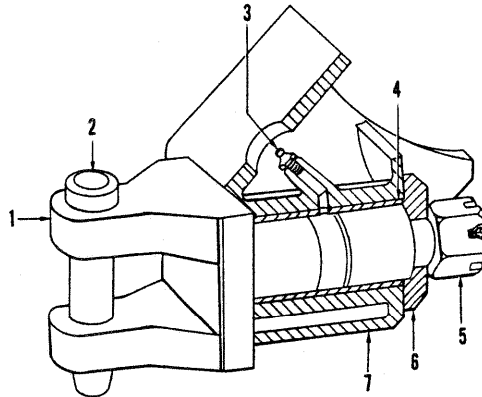
\$\$FIRST USED ON SERIAL NO. C82P-3052.

NOTE-ALL GASKETS ON THIS PAGE ARE INCLUDED IN ONE OR BOTH GASKET KITS LISTED ABOVE.

NOTE-DIRECT DRIVE WINCH WITH RIGID DRAWBAR & WITHOUT FREE SPOOL IS ILLUSTRATED.

SWIVELING DRAWBAR

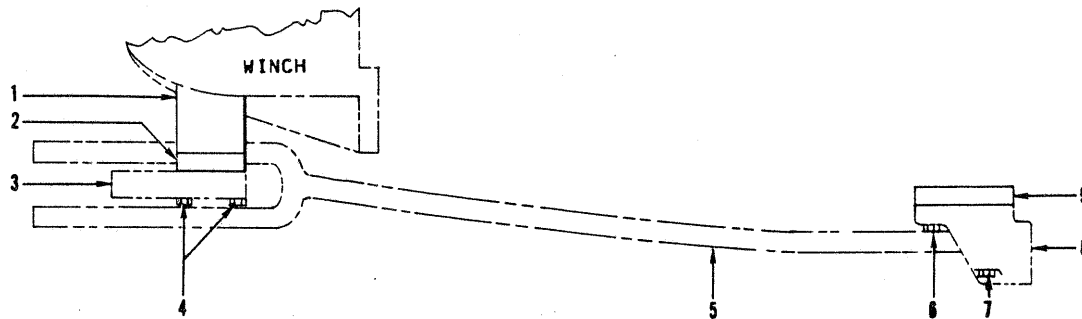
INCLUDED WITH APPROPRIATE WINCH FRAME



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	96542	DRAWBAR	1	5	15041	NUT-SLOTTED, 2 UNC	1
2	94369	PIN-DRAWBAR	1	5	15274	COTTER-3/8 X 3 1/2	1
2	15273	COTTER-3/8 X 2 1/2	1	6	96541	BAR	1
3	16002	FITTING-GREASE	1	7	.....	BRACKET-DRAWBAR, PAGE B1 REF. 4	1
4	92671	BUSHING	2				

SWINGING DRAWBAR MOUNTING

INCLUDED WITH APPROPRIATE WINCH FRAME



KEY

A-FOR DIRECT DRIVE WINCH ON D5 TRACTOR SERIAL NO. 81H1 & UP, 82H1 & UP, 93J1 & UP, 94J1 & UP,

D6 TRACTOR SERIAL NO. 8U1 & UP, 9U1 & UP, 37A1 & UP, 44A1 & UP.

B-FOR POWER CONTROL WINCH ON D5 TRACTOR SERIAL NO. 81H1-84H1 & UP, 95J1 & UP, 96J1 & UP.

C-FOR DIRECT DRIVE WINCH ON D6 TRACTOR SERIAL NO. 74A1 & UP, 99J1 & UP.

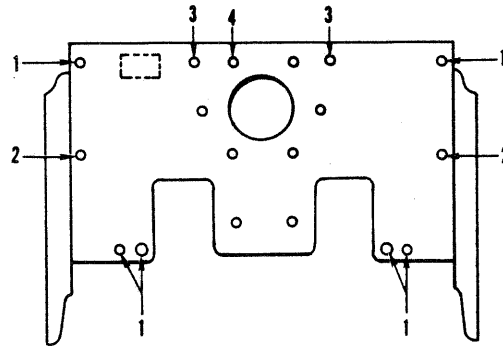
D-FOR POWER CONTROL WINCH ON D6 TRACTOR SERIAL NO. 10K1 & UP, 74A1 & UP, 76A1 & UP, 99J1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	A B C D			1 2 3 4	A B C D
1	.....	BRACKET-DRAWBAR, PAGE B1 REF. 4	2 2 2 2	4	18683	CAPSCREW-1 UNF X 6 G5	 4 ..
1	140749	SPACER	1	4	15166	LOCKWASHER-1	4 4 4 4
2	165981	SPACER	.. 1	5	.....	DRAWBAR-SWINGING, CAT.	1 1 1 1
2	123788	SPACER	 1 ..	6 *	18648	CPSCR.-7/8 UNC X 3 G5	2 2
3	.....	DRAWBAR-CAT.	1 .. 1 1	6 *	15164	LOCKWASHER-7/8	2 2
4	16915	CAPSCREW-1 UNF X 4 1/2	4	7 *	18660	CPSCR.-7/8 UNC X 6 G5	2 2
4		G5	.. 4	7 *	15164	LOCKWASHER-7/8	2 2
4	16385	CAPSCREW-1 UNF X 4 G5	.. 4	8	.....	BRACKET-DRAWBAR, CAT.	1 1
				9 *	165981	SPACER	1 1

HYSTER COMPANY
PORTLAND, OREGON

MOUNTING STUDS

FOR D5 AND D6 TRACTORS



KEY

A-FOR D5 SERIAL NO. 81H1-84H1 & UP, 95J1 & UP AND 96J1 & UP.

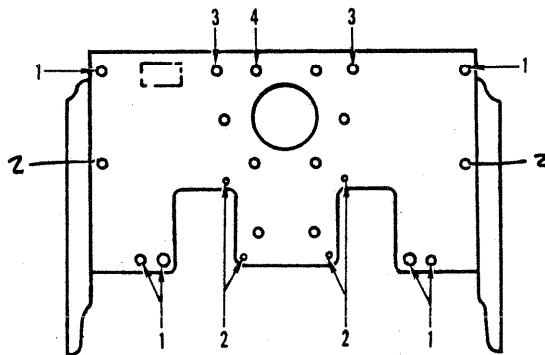
B-FOR D6 SERIAL NO. 8U1 & UP, 9U1 & UP, 37A1 & UP AND 44A1 & UP.

C-FOR D6 SERIAL NO. 10K1 & UP, 74A1 & UP, 76A1 & UP AND 99J1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.		
			1	2	3				1	2	3
1	.....	STUD-DRAWBAR, CAT.	..	6	..	3	95952	STUD-1 1/4 UNS X 3 7/8	..	2	..
1	162412	STUD-TAPERLOCK	6	..	6	3	55434	O-RING	2	2	2
1	15166	LOCKWASHER-1	6	6	..	3	134821	NUT-SLOTTED, 1 1/4 UNF	2	2	2
1	15066	NUT-1 UNC	6	..	..	3	15259	COTTER-1/4 X 3	2	..	2
1	15016	NUT-1 UNS	..	6	..	3	15240	COTTER-5/32 X 2 1/2	..	2	..
1	127156	LOCKNUT-1 UNC	..	..	6	4	136384	PLUG	6	6	..
2	18005	CORK-#11	2	2	2	4	18004	PLUG (CORK)	..	..	6
3	89035	STUD-TAPERLOCK	2	..	2						

MOUNTING STUDS

FOR 977 TRAXCAVATOR



KEY

A-FOR SERIAL NO. 20A1 & UP.

B-FOR SERIAL NO. 11K1 & UP AND 46H1 & UP.

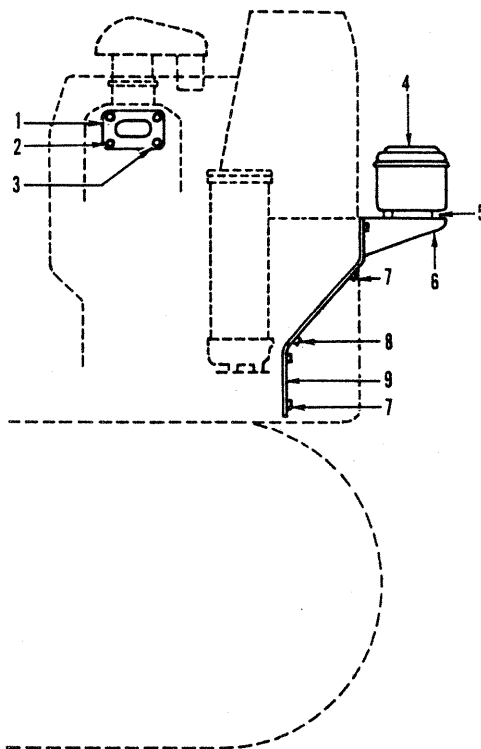
C-FOR SERIAL NO. 53A1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.		
			1	2	3				1	2	3
1	35680	STUD-1 UNS X 3 3/4	6	..	6	3	89035	STUD-TAPERLOCK	..	2	..
1	162412	STUD-TAPERLOCK	..	6	..	3	55434	O-RING	2	2	2
1	15166	LOCKWASHER-1	6	6	..	3	134821	NUT-SLOTTED, 1 1/4 UNF	2	2	2
1	15016	NUT-1 UNS	6	..	6	3	15240	COTTER-5/32 X 2 1/2	2	..	2
1	15066	NUT-1 UNC	..	6	..	3	15259	COTTER-1/4 X 3	..	2	..
2	18005	CORK-#11	2	4	4	4	136384	PLUG	6	6	6
3	95952	STUD-1 1/4 UNS X 3 7/8	2	..	2						

HYSTER COMPANY
PORTLAND, OREGON

ATTACHING PARTS

FOR 977 TRAXCAVATOR



KEY

A-FOR SERIAL NO. 20A1 & UP, ILLUSTRATED.
 B-FOR SERIAL NO. 11K1 & UP AND 46H1 & UP.
 C-FOR SERIAL NO. 53A1 & UP DIRECT DRIVE.
 D-FOR SERIAL NO. 53A1 & UP POWER CONTROLLED.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			1	2	3	4
1	92058	SPACER	1	..	..	..
1	96245	SPACER	..	..	1	..
1	92059	GASKET	1	..	..	..
1	96255	GASKET	..	..	1	..
2	15509	CPSCR.-1/2 UNF X 1 1/2	4	..	..	..
2	18848	CAPSCREW-1/2 UNC X 8 1/2 G5	..	..	2	..
2	15158	LOCKWASHER-1/2	4	..	..	..
2	*	LOCKWASHER-1/2	..	..	2	..
2	15008	NUT-1/2 UNF	4	..	..	..
2	*	NUT-1/2 UNC	..	..	2	..
3	*	CPSCR.-1/2 UNC X 5 3/4	..	..	2	..
3	*	LOCKWASHER-1/2	..	..	2	..
3	*	NUT-1/2 UNC	..	..	2	..
4	94293	TOOL BOX	1	..	1	1
5	94294	SPACER	4	..	4	4
5	15532	CPSCR.-3/8 UNF X 1 1/4	4	..	4	4
5	15134	WASHER-3/8	8	..	8	8

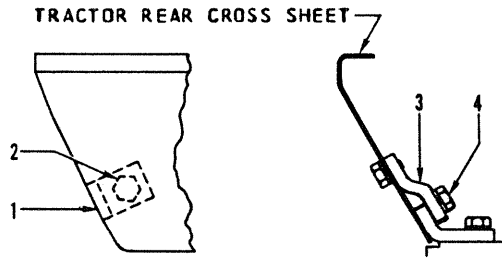
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			A	B	C	D
5	15156	LOCKWASHER-3/8	4	..	4	4
5	15006	NUT-3/8 UNF	4	..	4	4
6	95298 W	BRACKET	1	..	..	..
6	96252 W	BRACKET-COVER	..	..	1	1
7	*	CAPSCREW-CAT. #S-509	13	..	..	..
7	*	LOCKWASHER-CAT.#384506	13	..	..	..
7	17149	CAPSCREW-7/16 UNF X 3/4 G5	..	..	6	6
7	15157	LOCKWASHER-7/16	..	..	6	6
8	15525	CAPSCREW-3/8 UNC X 3/4	4	..	..	..
8	15156	LOCKWASHER-3/8	4	..	..	..
9	96514 W	COVER-LOWER REAR	1	..	..	..
	161872	SUPPORT-REAR CROSS SHEET	..	1	..	..
	96586	BRACKET-AIR FILTER TIE	..	..	1	..

*FURNISHED WITH TRAXCAVATOR.

□NOT ILLUSTRATED.

TRACTOR ALTERATIONS

FOR D5 AND D6 TRACTORS WITH DIRECT DRIVE WINCH



KEY

A-FOR D5 SERIAL NO. 81H1 & UP, 82H1 & UP, 93J1 & UP AND 94J1 & UP.

B-FOR D6 SERIAL NO. 37A1 & UP AND 44A1 & UP.

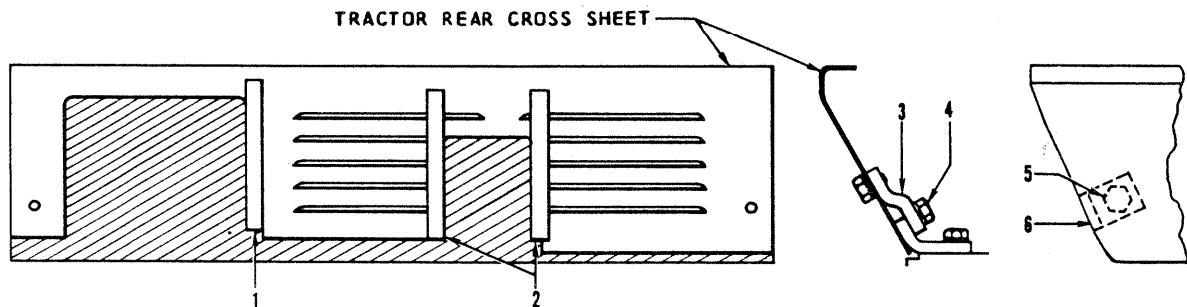
C-FOR D6 SERIAL NO. 74A1 & UP AND 99J1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.		
		1	2	3	4	A	B	C
1	96798	LUG				2	2	..
2	16820	CAPSCREW-1/2 UNF X 1 G5				2	2	..
2	15158	LOCKWASHER-1/2				2	2	..

REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.		
		1	2	3	4	A	B	C
3	97556	PLATE				..	..	2
4	16805	CAPSCREW-3/8 UNC X 1 G5				..	..	2
4	15156	LOCKWASHER-3/8				..	..	2

TRACTOR ALTERATIONS

FOR D5 AND D6 TRACTORS WITH POWER CONTROLLED WINCH



KEY

A-FOR D5 SERIAL NO. 81H1-84H1 & UP, 95J1 & UP AND 96J1 & UP.

B-FOR D6 SERIAL NO. 10K1 & UP, 74A1 & UP, 76A1 & UP AND 99J1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.	
		1	2	3	4	A	B
1	154961	STRIP-REAR CROSS SHEET				1	..
2	154961	STRIP-REAR CROSS SHEET				2	..
2	97554	STRIP-REAR CROSS SHEET				..	2
3	97556	PLATE				..	1
4	16805	CAPSCREW-3/8 UNC X 1 G5				..	1
4	15156	LOCKWASHER-3/8				..	1

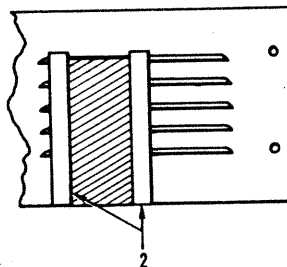
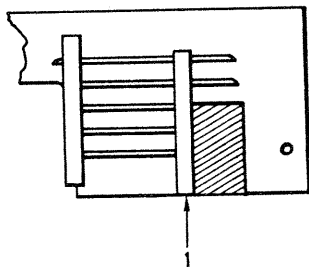
REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.	
		1	2	3	4	A	B
5	16820	CAPSCREW-1/2 UNF X 1 G5				2	..
5	15158	LOCKWASHER-1/2				2	..
6	96798	LUG				2	..
	* 154960	GROMMET-RUBBER, BATTERY BOX				1	..

*NOT ILLUSTRATED.

HYSTER COMPANY
PORTLAND, OREGON

TRACTOR ALTERATIONS

FOR WINCHES WITH FREE SPOOL



TRACTOR REAR CROSS SHEET

KEY

A-FOR DIRECT DRIVE WINCH ON D5 TRACTOR SERIAL NO. 81H1 & UP, 82H1 & UP, 93J1 & UP, 94J1 & UP.

B-FOR POWER CONTROL WINCH ON D5 TRACTOR SERIAL NO. 81H1-84H1 & UP, 95J1 & UP, 96J1 & UP.

C-FOR DIRECT DRIVE WINCH ON D6 TRACTOR SERIAL NO. 74A1 & UP, 99J1 & UP.

D-FOR POWER CONTROL WINCH ON D6 TRACTOR SERIAL NO. 10K1 & UP, 74A1 & UP, 76A1 & UP, 99J1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.			
		1	2	3	4	A	B	C	D
1	154961	STRIP				1	..	..	..

REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.			
		1	2	3	4	A	B	C	D
2	97554	STRIP				..	2	2	2

Section D

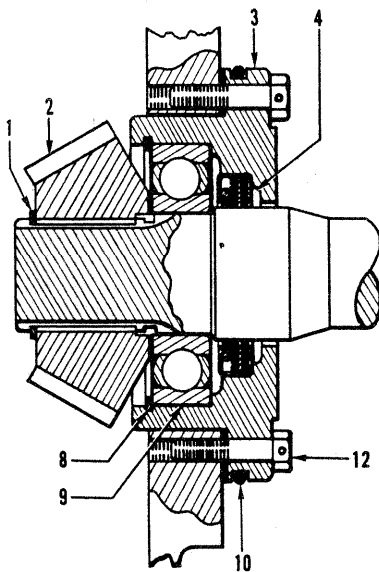
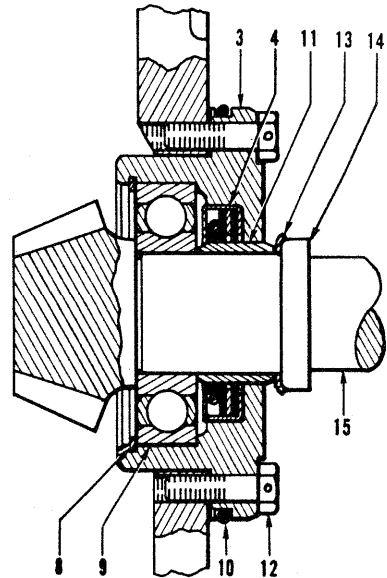
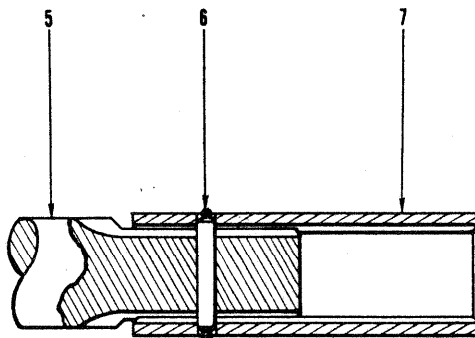
GEAR TRAIN AND SHAFTS

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USE HYSTER *APPROVED* PARTS... it pays

POWER TAKE-OFF

STANDARD SPEED
WINCHLO & SLO SPEED
WINCH

KEY

A-FOR D5 TRACTOR SERIAL NO. 81H1-84H1 & UP, 93J1-96J1 & UP.

B-FOR D6 TRACTOR SERIAL NO. 8U1 & UP, 9U1 & UP, 37A1 & UP, 44A1 & UP, 977 TRAXCAVATOR SERIAL NO. 20A1 & UP.

C-FOR D6 TRACTOR SERIAL NO. 10K1 & UP, 74A1 & UP, 76A1 & UP, 99J1 & UP, 977 TRAXCAVATOR SERIAL NO. 11K1 & UP, 46H1 & UP.

D-FOR 977 TRAXCAVATOR SERIAL NO. 53A1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			1	2	3	4
1	12916	SNAP RING	1	1	1	1
2	96020	GEAR-23 TEETH, BEVEL	1	1	1	1
3	98598	CARRIER-BEARING	1	1	1	1
4	79389	SEAL-OIL	1	1	1	1
5	* 196381	SHAFT-P.T.O.	1	..	..	..
5	□ 155491	SHAFT-P.T.O.	1	..	..	..
5	96019	SHAFT-P.T.O.	..	1	..	..
5	196380	SHAFT-P.T.O.	..	..	1	..
5	96591	SHAFT-P.T.O.	..	..	..	1
6	℥ 9563	PIN	1	1	1	1
6	℥ 9554	RING-LOCK	1	1	1	1
7	* 97553	COUPLING	1	1	1	1
7	℥□ 155492	COUPLING	1	..	..	..
8	35573	SNAP RING	1	1	1	1
9	124684	BEARING-BALL	1	1	1	1
10	90937	O-RING	1	1	1	1
10	134078	SHIM-.005	AR	AR	AR	AR
10	134079	SHIM-.007	AR	AR	AR	AR
11	96027	SPACER	1	1	1	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			1	2	3	4
12	179867	CAPSCREW-DRILLED HEAD, 7/16 UNF X 1 5/8	6	6	6	6
12	.....	LOCKWIRE	1	1	1	1
13	6036	LOCKWASHER	1	1	1	1
14	6037	LOCKNUT	1	1	1	1
15	* 155493	SHAFT-P.T.O.	1	..	..	..
15	□ 155494	SHAFT-P.T.O.	1	..	..	..
15	96026	SHAFT-P.T.O.	..	1	..	..
15	89065	SHAFT-P.T.O.	..	..	1	..
15	96593	SHAFT-P.T.O.	..	..	..	1

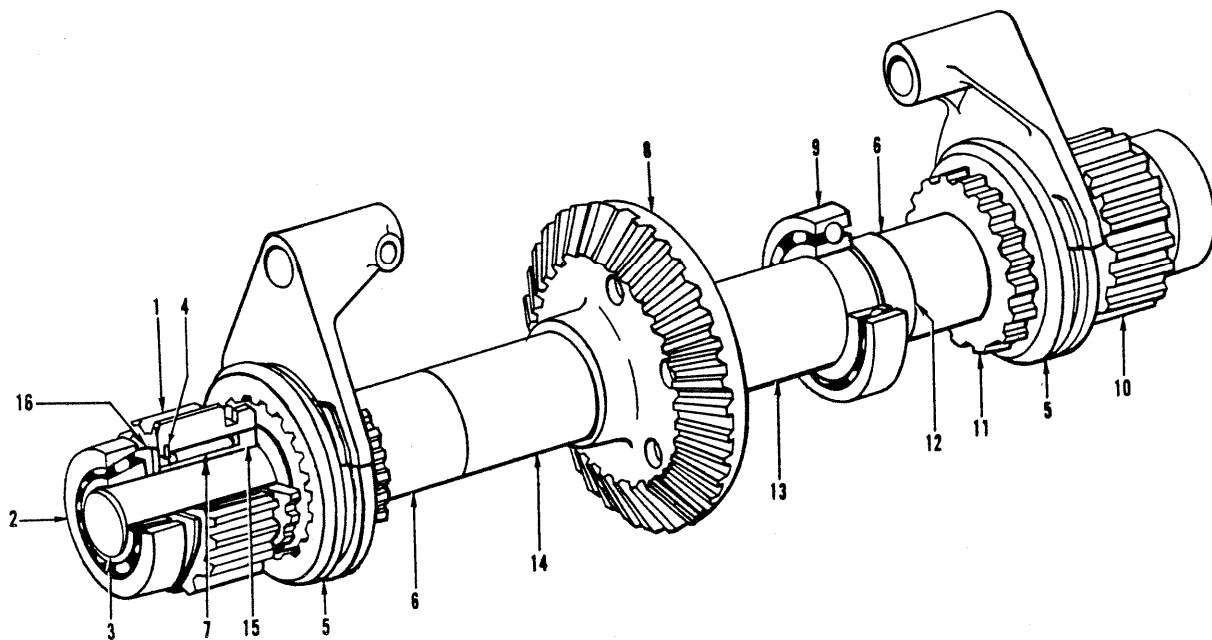
*FOR D5 TRACTOR SERIAL NO. 81H1 & UP, 82H1 & UP, 93J1 & UP, 94J1 & UP.

□FOR POWER CONTROL WINCH ONLY ON D5 TRACTOR SERIAL NO. 83H1 & UP, 84H1 & UP, 95J1 & UP, 96J1 & UP.

℥NOT REQUIRED FOR LO & SLOW SPEED POWER CONTROL WINCHES ON D5 SERIAL NO. 83H1 & UP, 84H1 & UP, 95J1 & UP, 96J1 & UP.

BEVEL GEAR SHAFT

DIRECT DRIVE WINCH



KEY

A-FOR STANDARD SPEED WINCH.

B-FOR SLO SPEED WINCH.

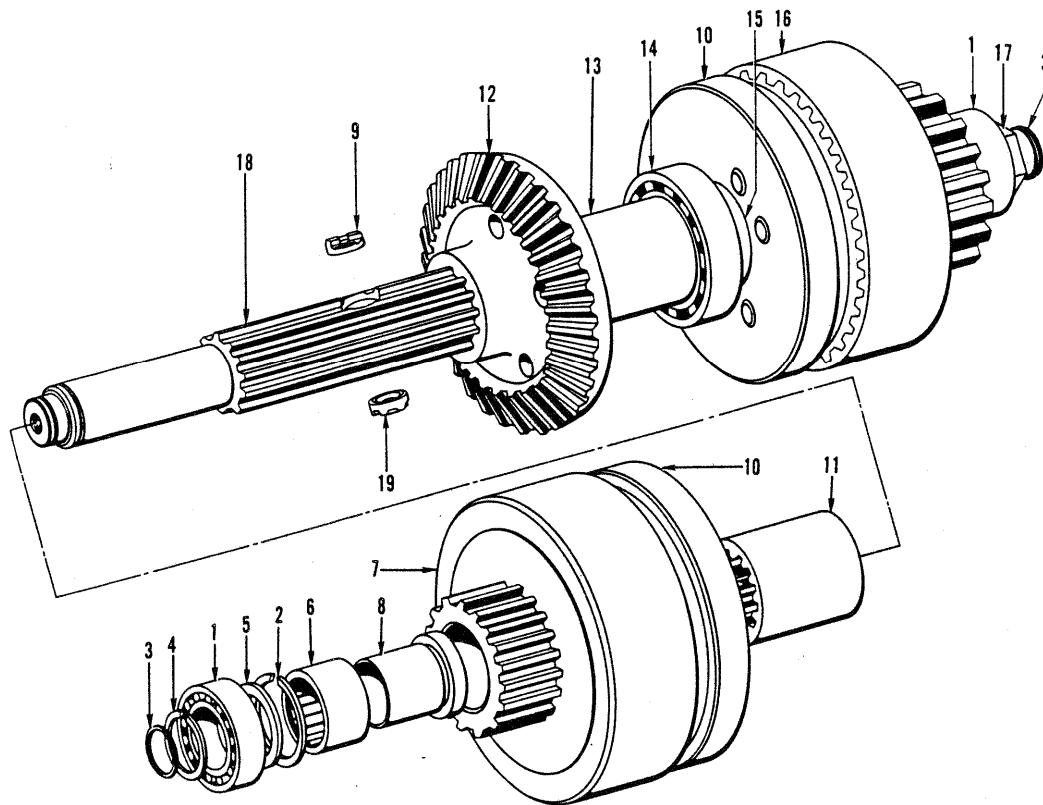
C-FOR LO SPEED WINCH.

REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.		
		1	2	3	4	A	B	C
1	95944	GEAR-22 TEETH, 2ND RED.				1	1	1
2	230351	CUP-BEARING				2	2	2
2	230405	CONE-BEARING				2	2	2
3	95943	SHAFT-BEVEL GEAR				1	1	1
4	58938	SNAP RING				2	2	2
5	95946	CLUTCH-DENTAL				2	2	2
6	95947	SPACER				2	2	2
7	230407	BEARING-ROLLER				2	2	2
8	96021	GEAR-45 TEETH, BEVEL				1	..	..
8	96028	GEAR-45 TEETH, BEVEL				..	1	1

REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.		
		1	2	3	4	A	B	C
9	44316	BEARING-BALL				1	1	1
10	96022	GEAR-20 TEETH, HI & REV.				1	1	..
10	96029	GEAR-17 TEETH, HI & REV.				..	..	1
11	95945	HUB-DENTAL CLUTCH				2	2	2
12	196378	CARRIER-BEARING				1	1	1
13	196377	SPACER				1	1	1
14	196376	SPACER				1	1	1
15	95961	CARRIER-BEARING				2	2	2
16	95962	WASHER				2	2	2

BEVEL GEAR SHAFT

POWER CONTROL WINCH



KEY

A-FOR STANDARD SPEED WINCH.

B-FOR SLO SPEED WINCH.

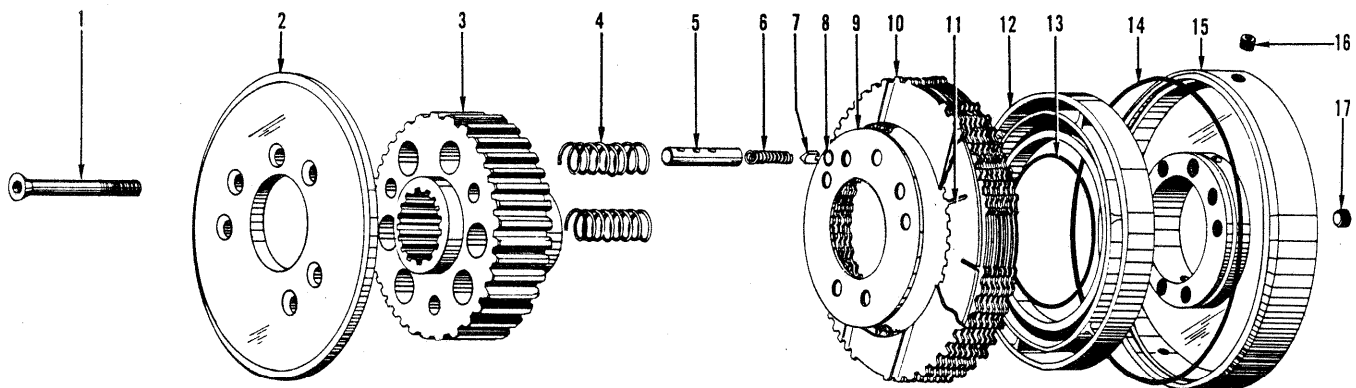
C-FOR LO SPEED WINCH.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.		
			1	2	3
1	230351	CUP-BEARING	2	2	2
1	230405	CONE-BEARING	2	2	2
2	58938	SNAP RING	2	2	2
3	95581	RING-SEAL	2	2	2
4	12916	SNAP RING	1	1	1
4	* 174560	SNAP RING	1	1	1
5	95962	WASHER	2	2	2
5	* 174559	WASHER	1	1	1
6	230407	BEARING-ROLLER	2	2	2
7	96469 W	GEAR-22 & 88 TEETH, 2ND REDUCTION SPIDER	1	1	1
8	95961	CARRIER-BEARING	2	2	2
9	96783	SEAL-THREE TEETH	2	2	2
10	.....	CLUTCH-SEE PAGE D4	2	2	2
11	196376	SPACER	1	1	1
12	96021	GEAR-45 TEETH, BEVEL	1	..	..
12	96028	GEAR-45 TEETH, BEVEL	..	1	1
13	196377	SPACER	1	1	1
14	44316	BEARING-BALL	1	1	1
15	196378	CARRIER-BEARING	1	1	1
16	89009 W	GEAR-20 & 88 TEETH, HI AND REVERSE	1	1	..
16	97775 W	GEAR-17 & 88 TEETH, HI AND REVERSE	..	..	1
17	21014	LOCKNUT-BEARING	1	1	1
17	21013	LOCKWASHER-BEARING	1	1	1
17	* 174561	LOCKWASHER-BEARING	1	1	1
18	89027	SHAFT-BEVEL GEAR	1	1	1
18	* 174580	SHAFT-BEVEL GEAR	1	1	1
19	96784	SEAL-TWO TEETH	2	2	2

*FIRST USED ON SERIAL NO. C82P-2417 AND C82S-1539.

CLUTCH

POWER CONTROL WINCH

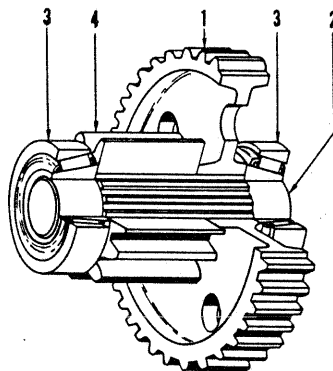


REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
	132580	CLUTCH	2
*	174579	CLUTCH	2
1	89031	CAPSCREW-1/2 UNF X 3 1/4	6
2	96467	PLATE-COVER	1
2	96785	SHIM-.032	AR
3	89029	HUB	1
3	* 174578	HUB	1
4	89030	SPRING	6
5	132579	BODY-VALVE	1
6	89033	SPRING-VALVE	1
7	95831	PLUNGER-VALVE	1
8	54132	SNAP RING	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
9	96461	RETAINER-SPRING	1
10	133917	DISC-FRICTION	6
11	96464	PLATE-SEPARATOR	6
12	96462	PISTON-CLUTCH	1
13	89777	O-RING	1
14	79972	O-RING	1
15	96463	PLATE-RETAINER	1
16	141348	PLUG-PIPE	1
17	196435	SETSCREW-1/2 UNF X 3/8	6

*FIRST USED ON SERIAL NO. C82P-2417 AND C82S-1539.

INTERMEDIATE GEAR SHAFT



KEY

A-FOR STANDARD & SLO SPEED WINCHES WITHOUT FREE SPOOL.

B-FOR LO SPEED WINCH WITHOUT FREE SPOOL.

C-FOR STANDARD & SLO SPEED WINCHES WITH FREE SPOOL.

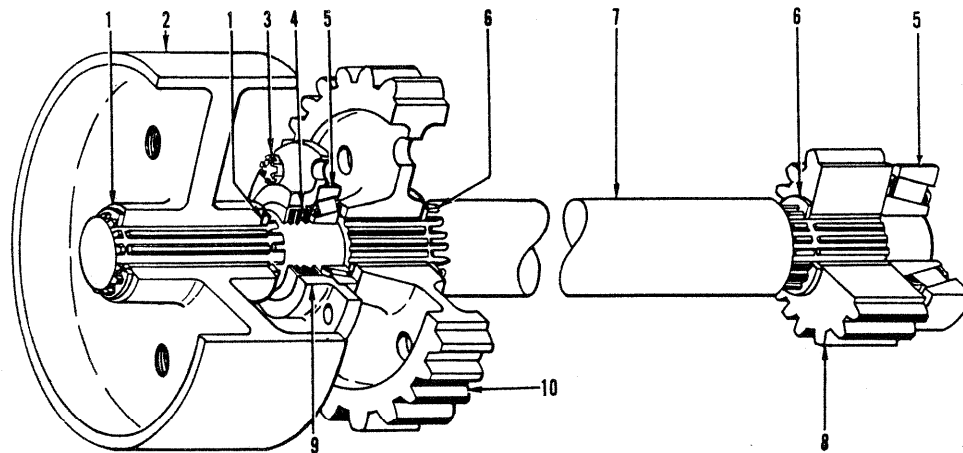
D-FOR LO SPEED WINCH WITH FREE SPOOL.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	A B C D
1	96024	GEAR-49 TEETH	1
1	96031	GEAR-52 TEETH	.. 1
1	96046	GEAR-16 AND 49 TEETH	 1 ..
1	96747	GEAR-16 AND 52 TEETH	 1 ..
2	95972	SHAFT-INTER. GEAR	1 1
2	96042	SHAFT-INTER. GEAR	 1 1
3	30059	CUP-BEARING	2 2 2 2

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	A B C D
3	30080	CONE-BEARING	2 2
3	30058	CONE-BEARING	 2 2
4	95973	GEAR-16 TEETH, DRUM PINION	1 1
4	96043 A	GEAR-16 TEETH, DRUM PINION	 1 1
4	96044	BUSHING-DRUM PINION	 1 1

HYSTER COMPANY
PORTLAND, OREGON

BRAKE SHAFT



KEY

A-FOR STANDARD & SLO SPEED WINCHES WITH STANDARD BRAKE.
 B-FOR LO SPEED WINCH WITH STANDARD BRAKE.
 C-FOR STANDARD & SLO SPEED WINCHES WITH AUTOMATIC BRAKE.
 D-FOR LO SPEED WINCH WITH AUTOMATIC BRAKE.

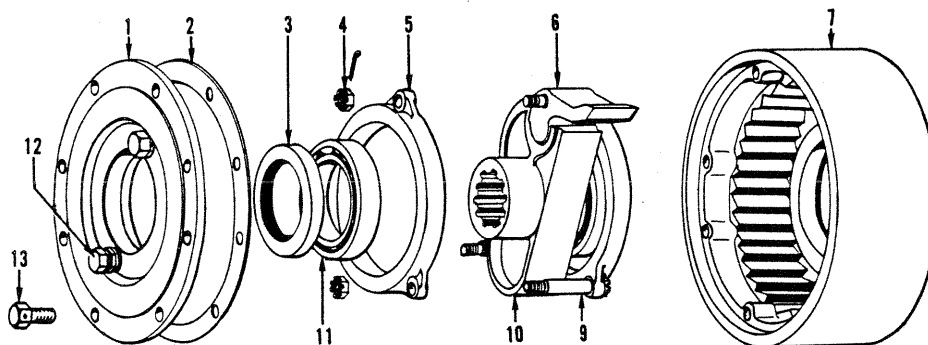
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			1	2	3	4
1	58954	SNAP RING	1	1	1	1
2	96036	WHEEL-BRAKE	1	1	..	..
2	.....	BRAKE-AUTO., SEE BELOW	..	..	1	1
3	16830	CAPSCREW-1/2 UNC X				
3	179867	1 1/4 G5	6	6	6	6
3	15158	LOCKWASHER-1/2	6	6	6	6
4	87656	SEAL-OIL	1	1	1	1
5	230311	CUP-BEARING	2	2	2	2
5	230310	CONE-BEARING	2	2	2	2
6	12915	SNAP RING	2	2	2	2
7	95968	SHAFT-BRAKE	1	1	1	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			A	B	C	D
8	96023	GEAR-20 TEETH, INTERMEDIATE PINION	1	..	1	..
8	96030	GEAR-17 TEETH, INTERMEDIATE PINION	..	1	..	1
8	89727	RETAINER-OIL SEAL	1	1	1	1
9	* 92649	GASKET	1	1	1	1
10	95969	GEAR-51 TEETH, 2ND RED.	1	1	1	1

*INCLUDED IN DIRECT DRIVE WINCH GASKET KIT 167622 & POWER CONTROL WINCH GASKET KIT 167621 AND 201871.

AUTOMATIC BRAKE

FOR DIRECT DRIVE WINCH



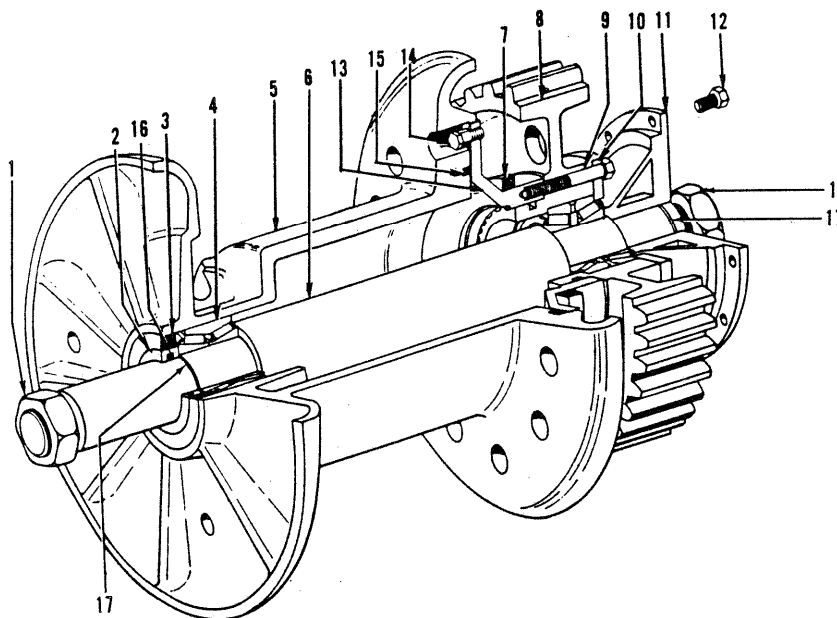
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			1	2	3	4
	96037 A	BRAKE-AUTOMATIC				1
1	59387	COVER				1
2	* 59396	GASKET				1
3	59395	SEAL-OIL				2
4	12430	NUT-SLOTTED, 5/16 UNF				6
4	15201	COTTER-1/16 X 3/4				6
5	92945	RING-DRAW				2
6	59393	PAWL				1
7	59389 A	WHEEL-BRAKE				1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			1	2	3	4
9	94599	LINK-SHOULDER				3
10	96039	HUB				1
11	44313	BEARING-BALL				2
12	46187	PLUG-VENT, SPECIAL				1
13	27259	CPSCR.-DRILLED HEAD, 3/8 UNF				6
13		X 1 1/4 G5				1
13	.....	LOCKWIRE				1

*INCLUDED IN GASKET KIT 167622.

HYSTER COMPANY
 PORTLAND, OREGON

DRUM SHAFT



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	6607	NUT-2 1/2 SPECIAL	2
1	# 242831	NUT-SPECIAL	2
2	95979	SPACER	1
2	* 172808	SPACER	1
3	44547	SEAL-OIL	1
4	230406 A	BEARING	2
5	141676	DRUM-10 IN, FOR STD. & SLD SPD.	1
5	141679	DRUM-7 IN., FOR LO SPEED	1
6	95976	SHAFT-DRUM	1
6	* 172809	SHAFT-DRUM	1
6	% 186308	SHAFT-DRUM	1
6	# 242838	SHAFT-DRUM	1
7	141671	SEAL-OIL	1
8	95977	GEAR-48 & 65 TEETH, DRUM	1
9	18811	BOLT-PLACE, 1/2 UNF X 2 1/2	8
10	95978	PLATE-GEAR RETAINER	1
11	95974	RETAINER-DRUM	1
11	* 172810	RETAINER-DRUM	1
11	175646	SHIM-.005	AR

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
11	175647	SHIM-.007	AR
11	175648	SHIM-.020	AR
12	18588	CAPSCREW-1/2 UNC X 1 1/2 G5	6
12	□ 178403	CAPSCREW-1/2 UNC X 1 G5	6
12	15158	LOCKWASHER-1/2	6
13	141674	ADAPTER	1
14	141675	CAPSCREW-5/8 UNF SPECIAL	10
14	53559	DOWEL	10
15	133927	RING-SEAL	1
16	* 90263	O-RING	1
17	* 15881	O-RING	1

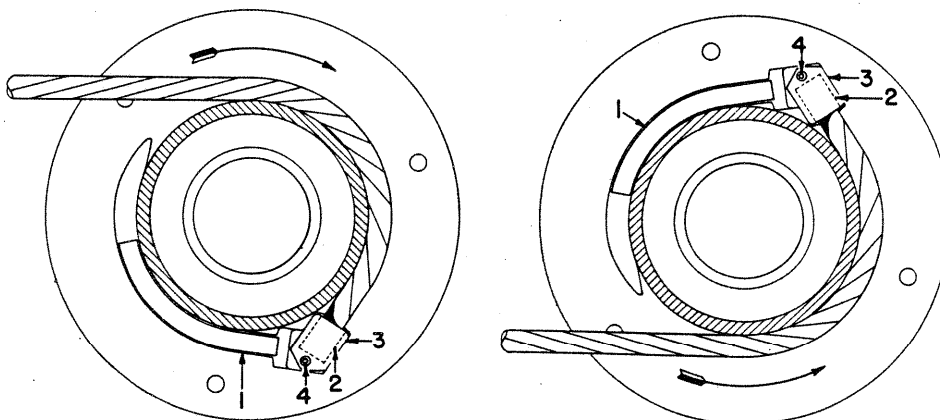
*FIRST USED ON SERIAL NO. C82P-2180.

□FIRST USED ON SERIAL NO. C82P-2700 AND C82S-1547.

%FIRST USED ON SERIAL NO. D39P-2175 AND C82P-2742.

#FIRST USED ON SERIAL NO. C82P-3375.

CABLE LOCK



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	96033	FILLER-CABLE, FOR 10 INCH STANDARD AND SLU SPEED DRUM	1
1	96035	FILLER-CABLE, FOR 7 INCH LO SPEED DRUM	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
2	30712	FERRULE-CABLE	1
3	95980	LOCK-FERRULE	1
4	14721	CAPSCREW-1/2 UNF X 2 3/4	1
4	177949	LOCKWASHER-HC, 1/2	1

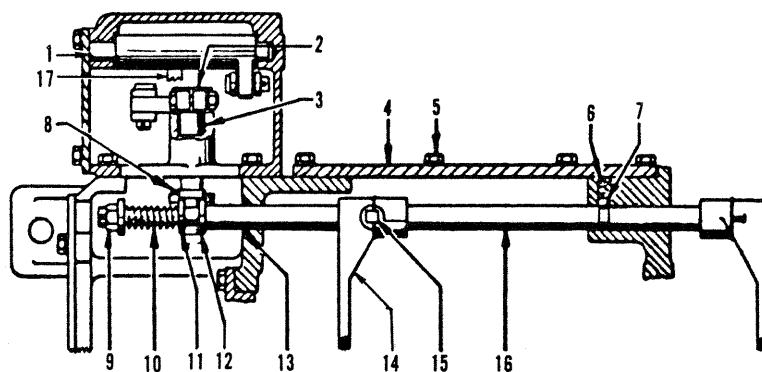
Section E

BRAKE AND SHIFTER MECHANISM
FOR DIRECT DRIVE WINCH

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HANDLING GEAR-977 TRAXCAVATOR.....	E3
SHIFTER MECHANISM.....	E1

SHIFTER MECHANISM

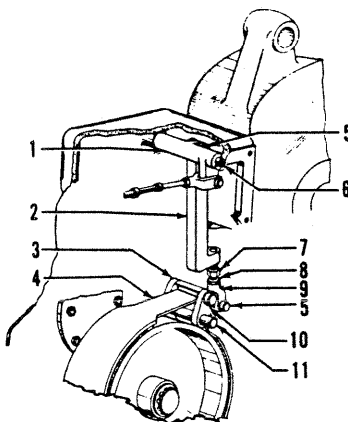


REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	.....	PIN-SEE BELOW	1
2	95987 A	CRANK	1
2	15527	CAPSCREW-3/8 UNF X 1 3/4	1
2	15006	NUT-3/8 UNF	1
2	15156	LOCKWASHER-3/8	1
3	95615	BUSHING	2
4	161854	COVER-TRANSMISSION	1
4	186313	COVER-TRANSMISSION	1
4	* 141690	GASKET	1
4	186318	GASKET	1
5	163249	CAPSCREW-1/2 UNC X 2 1/4 G5	4
5	89886	CAPSCREW-1/2 UNC X 1 1/2 G5	5
5	15135	WASHER-1/2	9
6	96545	SPRING	1
7	6348	BALL-1/2	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
8	95636 W	CRANK-SHIFTER	1
8	33717	SHOE	2
9	63085	LOCKNUT-5/8 UNF	1
10	95950	SPRING	1
11	33682	WASHER	2
12	33681	WASHER	1
13	44551	OIL SEAL	1
14	95951	FORK-SHIFTER	2
15	27936	LOCKSCREW	2
15	.....	LOCKWIRE	2
16	95949	SHAFT-SHIFTER	1
17	.....	CRANK-SEE BELOW	1

*INCLUDED IN GASKET KIT 167622.
 *FIRST USED ON SERIAL NO. D39P-2175.

BRAKE MECHANISM



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	77114 A	CRANK-BRAKE	1
1	92705	BUSHING	2
2	76697	LINK-BRAKE	1
3	76695 A	LEVER-BRAKE	1
3	104607	BUSHING	2
4	128386	BAND-BRAKE	1
4	96300 A	LINING SET-WITH RIVETS	1
5	159	PIN-ROD END	2
5	15223	COTTER-1/8 X 1	2
6	95989	PIN	1

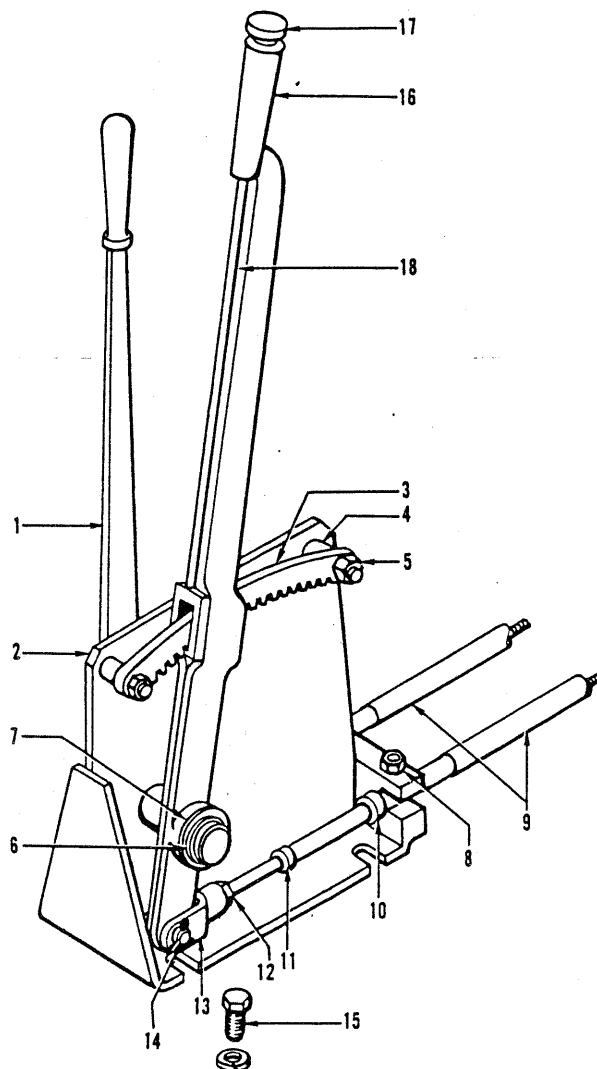
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
6	* 187639	PIN	1
7	76696	LINK-ADJUSTING	1
8	15030	NUT-JAM, 5/8 UNF	1
9	91629	ROD END	1
10	96725	PIN-BRAKE	1
10	15226	COTTER-1/8 X 1 3/4	1
11	128383	PIN-BRAKE	1

*FIRST USED ON SERIAL NO. D39P-2175.

HYSTER COMPANY
 PORTLAND, OREGON

HANDLING GEAR

FOR D5 AND D6 TRACTORS



KEY

A-FOR D5 SERIAL NO. 81H1 & UP, 82H1 & UP, 93J1 & UP AND 94J1 & UP.

B-FOR D6 SERIAL NO. 8U1 & UP AND 9U1 & UP.

C-FOR D6 SERIAL NO. 37A1 & UP AND 44A1 & UP.

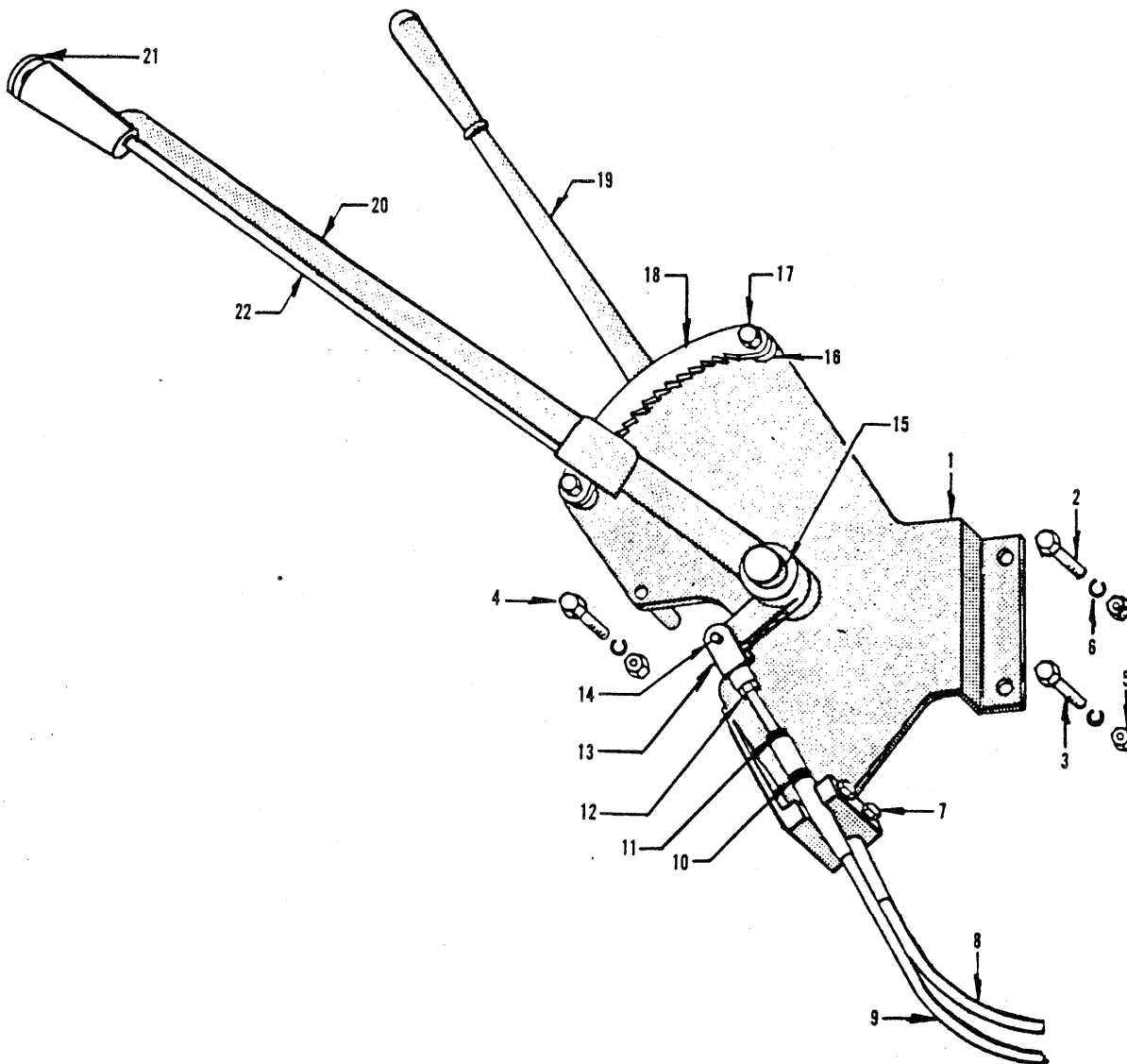
D-FOR D6 SERIAL NO. 74A1 & UP AND 99J1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			A	B	C	D
1	95750	HANDLEVER-CLUTCH	1	..	1	1
1	96016	HANDLEVER-CLUTCH	..	1	..	..
2	76706 W	BRACKET	1	..	1	1
2	76702 W	BRACKET	..	1	..	..
3	77188	BAR-QUADRANT	1	1	1	1
4	94891	SPACER	2	2	2	2
5	18451	CPSCR.-3/8 UNF X 2 G5	2	2	2	2
5	15156	LOCKWASHER-3/8	2	2	2	2
5	15006	NUT-3/8 UNF	2	2	2	2
6	58907	SNAP RING	2	2	2	2
7	90267	WASHER	2	2	2	2
8	16212	SETSCR-3/8 UNC X 1 1/4	2	2	2	2
8	15086	NUT-JAM, 3/8 UNC	2	2	2	2
9	96241	CABLE-CLUTCH, 51 INCH	1	..	1	..
9	96240	CABLE-BRAKE, 53 INCH	1	..	1	..
9	96017	CABLE-CONTROL, 48 INCH	..	2	..	..
9	123422	CABLE-CLUTCH, 56 INCH	..	..	..	1
9	125629	CABLE-BRAKE, 58 INCH	..	..	..	1
10	94381	GROMMET-LARGE	2	2	2	2
11	95905	GROMMET-SMALL	2	2	2	2
12	15026	NUT-JAM, 3/8 UNF	4	4	4	4
13	92683	ROD END	4	4	4	4
14	159	PIN-ROD END	4	4	4	4
14	15223	CUTTER-1/8 X 1	4	4	4	4
15	16807	CAPSCREW-1/2 UNF X 1 1/2 G5	4	4	4	4
15	15158	LOCKWASHER-1/2	4	4	4	4
15	15008	NUT-1/2 UNF	4	4	4	4
16	77187 A	HANDLEVER-BRAKE	1	1	1	1
17	79418	BUTTON	1	1	1	1
17	79417	SPRING	1	1	1	1
18	79416	PAWL & ROD	1	1	1	1
	121181	CLAMP-CABLE LOCATING, NOT ILLUSTRATED	..	..	..	2

HYSTER COMPANY
PORTLAND, OREGON

HANDLING GEAR

FOR 977 TRAXCAVATOR



KEY

A-FOR SERIAL NO. 20A1 & UP.

B-FOR SERIAL NO. 53A1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
1	77129 W	BRACKET	1	1
2	15569	CAPSCREW-1/2 UNF X 1 1/2	1	..
2	37562	CAPSCREW-1/2 UNC X 1 1/4 G5	..	1
3	15569	CAPSCREW-1/2 UNF X 1 1/2	1	..
3	16807	CAPSCREW-1/2 UNF X 1 1/2 G5	..	1
4	15607	CAPSCREW-1/2 UNF X 3 3/4	1	..
4	17141	CAPSCREW-1/2 UNF X 3 1/2 G5	..	1
5	15008	NUT-1/2 UNF	1	3
6	15158	LOCKWASHER-1/2	1	3
7	16212	SETSCREW-3/8 UNF X 1 1/4	2	2
7	15086	NUT-JAM, 3/8 UNF	2	2
8	96244	CABLE-CLUTCH, 38 1/2 INCH	1	..
8	96581	CABLE-CLUTCH, 47 3/8 INCH	..	1
9	96243	CABLE-BRAKE, 42 1/2 INCH	1	..
9	96241	CABLE-BRAKE, 51 INCH	..	1
10	94381	GROMMET-LARGE	2	2
11	95905	GROMMET-SMALL	2	2

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
12	15026	NUT-JAM, 3/8 UNF	4	4
13	92683	ROD END	4	4
14	159	PIN-ROD END	4	4
14	15223	COTTER-1/8 X 1	4	4
15	92067	WASHER	2	2
15	58907	SNAP RING	2	2
16	89711	SPACER	2	2
17	16594	CAPSCREW-3/8 UNF X 1 3/4 G5	2	2
17	15156	LOCKWASHER-3/8	2	2
17	15006	NUT-3/8 UNF	2	2
18	77188	BAR-QUADRANT	1	1
19	96247	HANDLEVER-CLUTCH	1	1
20	79394 W	HANDLEVER-BRAKE	1	1
21	79418	BUTTON	1	1
21	79417	SPRING	1	1
22	79416	PAWL AND ROD	1	1

HYSTER COMPANY
PORTLAND, OREGON

Section F

BRAKE AND HYDRAULIC SYSTEM
FOR POWER CONTROL WINCH

INDEX

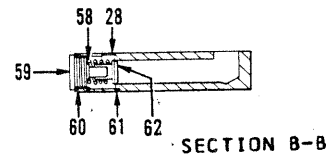
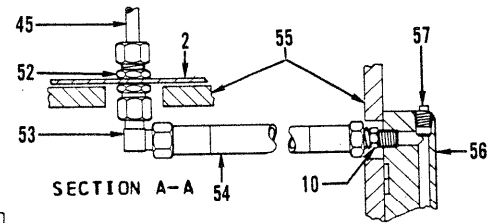
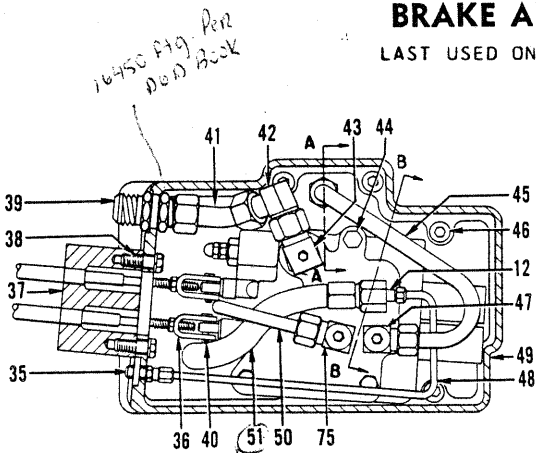
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USE HYSTER APPROVED PARTS... *it pays*

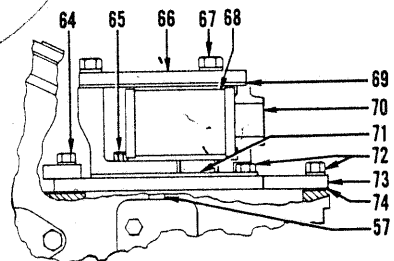
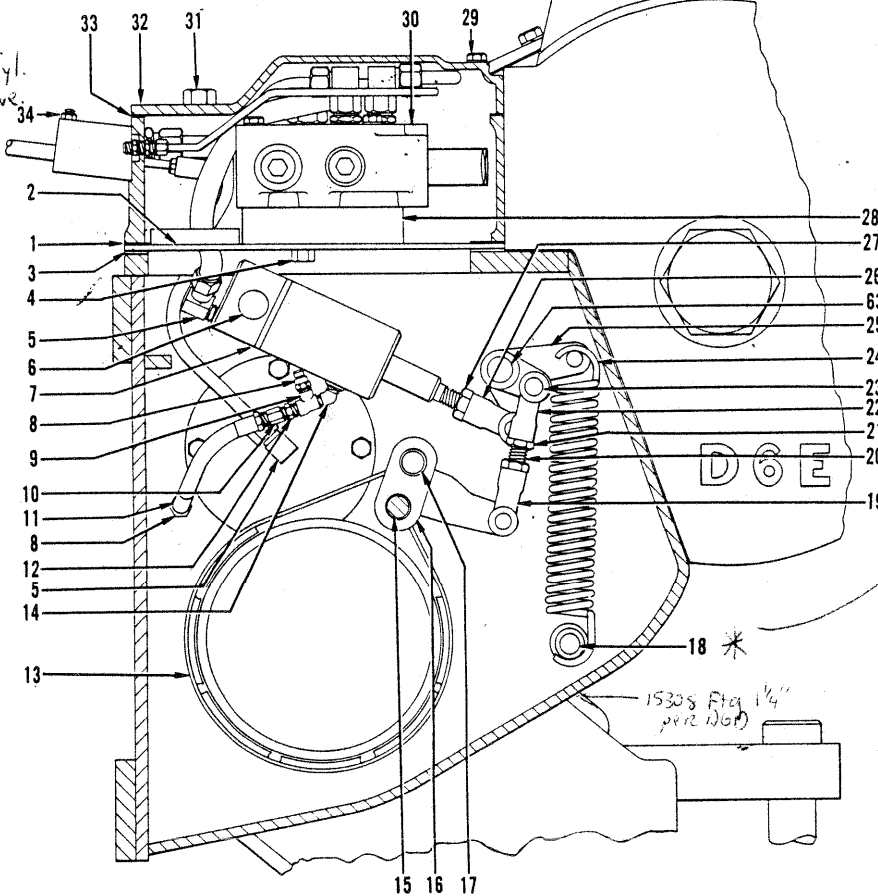
BRAKE AND HYDRAULIC SYSTEM

LAST USED ON SERIAL NO. C82P-2736, C82S-1549

Pressure Line Oil Filter Installation
 Gram AC-Z-15 - For Conversion To
 System Shown On F3 + F4



Hose from Back
 Side of Brake Cyl.
 To Control Valve



Suction Foot Valve - AC-Z-17

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	167238	GASKET	1
2	167240	PLATE	1
2	175872	PLATE	1
3	89058	GASKET	1
4	16597	CAPSCREW-3/8 UNC X 3/4 G5	3
4	15156	LOCKWASHER-3/8	3
5	16097	ELBOW	2
6	89051	PIN	1
7	.....	CYLINDER-BRAKE, SEE PAGE F17	1
8	128002	CONNECTOR-BALL CHECK	2
9	16186	TEE	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
10	17315	CONNECTOR	2
11	140288	HOSE	1
12	14500	CONNECTOR	2
13	128386	BAND-BRAKE	1
13	96300 A	LINING SET-WITH RIVETS	1
14	12821	ELBOW-45 DEG.	1
15	128383	PIN-BRAKE	1
16	96780 A	LEVER-BRAKE	1
16	104607	BUSHING	4
17	96725	PIN-BRAKE	1
17	15226	COTTER-1/8 X 1 3/4	1

HYSTER COMPANY
 PORTLAND, OREGON

BRAKE AND HYDRAULIC SYSTEM

LAST USED ON SERIAL NO. C82P-2736, C82S-1549

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	2	3	4	1	2	3	4
* 18	95998	W PIN	1	47	165662	ELBOW-SPECIAL	1
18	16829	CAPSCREW-1/2 UNC X 1 G5	1	47	14349	PLUG-PIPE, 1/8	2
18	15158	PISTON & ROD LOCKWASHER	1	47	16909	CONNECTOR	2
18	95996	SPACER	1	47	16485	O-RING	1
19	95628	A LINK-BRAKE ADJUSTMENT	1	48	172856	TUBE 167252 Per D6D	1
19	92688	ROD END-LH	1	49	166955	HOUSING-CONTROL VALVE 424mm	1
* 20	95629	LINK	1	* 49	174886	HOUSING-CONTROL VALVE	1
21	15030	NUT-JAM, 5/8 UNF	2	50	172857	TUBE-LH CLUTCH 167250 Per D6D	1
22	92689	ROD END-RH	1	51	168735	HOSE	1
23	159	PIN-ROD END	2	52	16448	UNION-BULKHEAD	1
23	15223	COTTER-1/8 X 1	2	52	14761	LOCKNUT	1
* 24	161836	SPRING	2	53	16989	ELBOW	1
* 25	128384	CRANK	1	54	73470	HOSE	1
25	92705	BUSHING	2	55	.....	FRAME-WINCH, PAGE B1 REF. 1	1
26	92689	ROD END	1	56	.....	RETAINER-BRG., PAGE B1 REF. 22	1
26	159	PIN-ROD END	1	57	15302	PLUG-PIPE, 3/8	1
26	15223	COTTER-1/8 X 1	1	58	168733	SPRING	1
27	15030	NUT-JAM, 5/8 UNF	1	59	168731	PLUG	1
28	167245	SUPPORT-VALVE	1	60	16982	O-RING	1
29	18538	CAPSCREW-3/8 UNC X 2 3/4 G5	2	61	39377	O-RING 39371 Per D6D	1
29	* 15747	CAPSCREW-HT, 3/8 UNC X 2 3/4	2	62	234648	SPOOL	1
29	15156	LOCKWASHER-3/8	2	63	95989	PIN	1
30	.....	VALVE-CONTROL, SEE PAGE F7	1	64	163249	CAPSCREW-1/2 UNC X 2 1/4 G5	4
31	16805	CAPSCREW-3/8 UNC X 1 G5	2	64	15135	WASHER-1/2	4
31	15156	LOCKWASHER-3/8	2	65	16830	CAPSCREW-1/2 UNC X 1 1/4 G5	3
32	89059	COVER-TCP	1	65	86229	WASHER-SEAL	3
32	* 174887	COVER	1	66	89025	COVER	1
33	* 89060	GASKET	1	66	177410	COVER	1
33	* 174888	GASKET	1	67	37562	CAPSCREW-1/2 UNF X 1 1/4 G5	5
34	18853	SET SCREW-5/16 UNC X 1 1/4	2	67	18595	CAPSCREW-1/2 UNC X 4 1/2 G5	5
34	15001	NUT-JAM, 5/16 UNC	2	67	15158	LOCKWASHER-1/2	5
35	16445	UNION-BULKHEAD	1	68	160387	ELEMENT-FILTER Magnetic	1
35	14758	LOCKNUT	1	69	* 89023	GASKET	1
36	165659	ROD END	2	69	177409	GASKET	1
37	167239	BLOCK	1	70	141695	MANIFOLD-INTAKE	1
38	16828	CAPSCREW-3/8 UNC X 1 1/4 G5	2	70	204241	MANIFOLD-INTAKE	1
38	15156	LOCKWASHER-3/8	2	71	* 89022	GASKET	1
39	173882	UNION-BULKHEAD	1	71	177409	GASKET	1
39	14763	LOCKNUT	2	72	169268	CAPSCREW-1/2 UNC X 1 1/4 G5	5
40	133683	PIN-ROD END	2	72	15135	WASHER-1/2	5
40	15211	COTTER-3/32 X 1/2	2	73	161856	COVER-TRANSMISSION	1
41	167243	TUBE	1	73	179822	COVER-TRANSMISSION	1
42	83857	ELBOW	1	74	* 141690	GASKET	1
43	167244	ELBOW-SPECIAL	1	75	164656	ELBOW-SPECIAL	1
43	16486	O-RING	1				
43	16588	LOCKNUT	1				
43	14349	PLUG-PIPE, 1/8	1				
44	18543	CAPSCREW-3/8 UNC X 3 3/4 G5	3				
44	15156	LOCKWASHER-3/8	3				
45	167249	TUBE-RH CLUTCH	1				
46	16300	CAPSCREW-1/2 UNC X 1	5				
46	177949	LOCKWASHER-1/2	5				

*INCLUDED IN GASKET KIT 167621.

*INCLUDED IN GASKET KIT 180388,

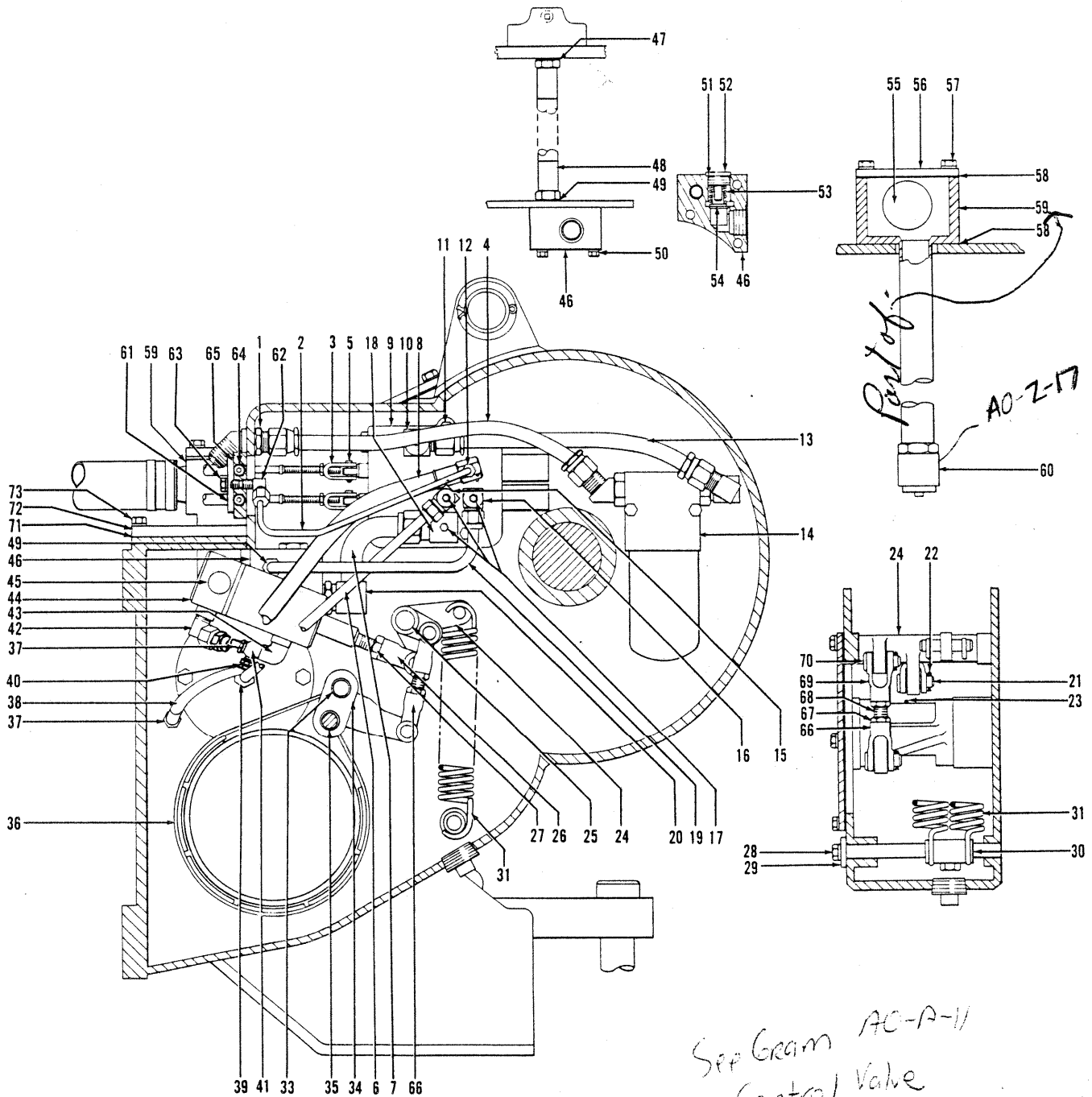
*FIRST USED ON SERIAL NO. C82P-2700 AND C82S-1547.

*FIRST USED ON SERIAL NO. C82P-2234 AND C82S-1535.

* See Diagram A3-A-13

BRAKE AND HYDRAULIC SYSTEM

FIRST USED ON SERIAL NO. C82S-1550 AND USED ON SERIAL NO. C82P-2737 TO C82P-3051 INCLUSIVE



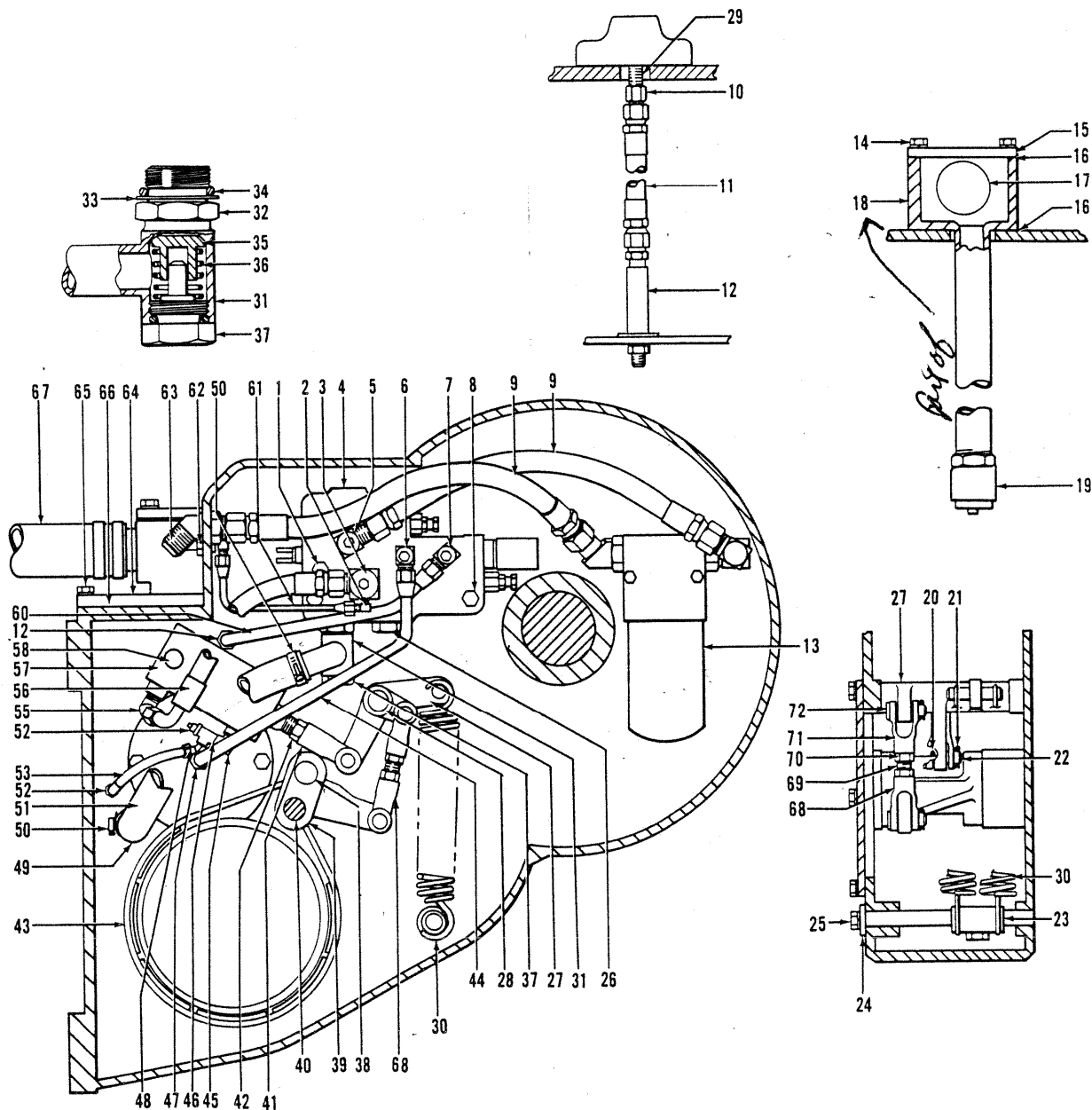
BRAKE AND HYDRAULIC SYSTEM

FIRST USED ON SERIAL NO. C82S-1550 AND USED ON SERIAL NO. C82P-2737 TO C82P-3051 INCLUSIVE

REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.	REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.
1	16468	ELBOW-45 DEGREE	1	39	17315	CONNECTOR	1
2	165497	TUBE	1	40	14668	CONNECTOR	1
3	168737	ROD END	2	41	16186	TEE	1
4	.....	HOSE-PAGE G3 REF. 16	1	42	17309	ELBOW	1
5	133683	PIN-ROD END	2	43	16151	ELBOW	1
5	15211	PIN-COTTER 3/32 X 1/2	2	44	.....	CYLINDER-SEE PAGE F17	1
6	185986	TUBE	1	45	89051	PIN	1
7	185987	TUBE	1	46	185978	VALVE	1
8	182205	HOSE	1	46	185979	GASKET	1
9	.....	VALVE-CONTROL, SEE PAGE F7	1	47	17315	CONNECTOR	1
10	164703	ELBOW	1	48	185983	HOSE	1
10	14349	PLUG	1	49	16541	CONNECTOR	2
11	18524	CAPSCREW-5/16 UNC X 3 3/4 G5	3	50	18540	CAPSCREW-3/8 UNC X 3 G5	3
11	15155	LOCKWASHER-3/8	3	50	15156	LOCKWASHER 3/8	3
12	14668	CONNECTOR	1	51	16982	O-RING	1
13	.....	HOSE-PAGE G3 REF. 17	1	52	168731	PLUG	1
14	.....	FILTER-PAGE G3 REF. 1	1	53	168733	SPRING	1
15	16909	CONNECTOR	1	54	234648	SPOOL	1
15	165662	ELBOW	1	55	160387	FILTER <i>Magnetic</i>	1
16	186309	CONNECTOR	1	56	177410	COVER	1
16	165662	ELBOW-SPECIAL	1	57	18595	CAPSCREW-1/2 UNC X 4 1/2 G5	4
17	14349	PLUG	3	57	15158	LOCKWASHER 1/2	4
18	186315	ELBOW	1	58	177409	GASKET	2
19	185985	TUBE	1	59	204241	MANIFOLD-INTAKE	1
20	16562	ELBOW	1	60	177369	VALVE-FOOT	1
21	159	PIN-ROD END	1	61	186319	PLATE	1
22	15223	PIN-COTTER 1/8 X 1	1	62	16455	ELBOW	1
23	15226	PIN-COTTER 1/8 X 1 3/4	1	63	16597	CAPSCREW-3/8 UNC X 3/4 G5	1
24	184256	CRANK	1	63	15156	LOCKWASHER 3/8	1
25	95989	PIN	1	64	18853	SETSCREW-5/16 UNC X 1 1/4	2
26	92689	ROD END	1	64	15001	NUT-JAM 5/16 UNC	2
27	15030	NUT-JAM 5/8 UNF	1	65	100154	O-RING	2
28	16829	CAPSCREW-1/2 UNC X 1 G5	1	66	95628 A	LINK-BRAKE ADJUSTMENT	1
28	15158	LOCKWASHER-1/2	1	66	92688	ROD END-LH	1
29	184259 W	PIN	1	67	15030	NUT-JAM, 5/8 UNF	2
30	95996 W	SPACER	1	68	95629	LINK	1
31	184258	SPRING	2	69	92689	ROD END-RH	1
33	96725	PIN	1	70	159	PIN-ROD END	2
34	96780 A	LINK-BRAKE	1	70	15223	COTTER-1/8 X 1	2
34	104607	BUSHING	4	71	186318	GASKET	1
35	128383	PIN-BRAKE	1	72	186311	COVER	1
36	128386	BAND-BRAKE	1	73	169268	CAPSCREW-1/2 UNC X 1 1/4 G5	5
36	96300 A	LINING SET-WITH RIVETS	1	73	163249	CAPSCREW-1/2 UNC X 2 1/2 G5	4
37	128002	CONNECTOR-BALL	2	73	15158	LOCKWASHER-1/2	9
38	140288	HOSE	1				

BRAKE AND HYDRAULIC SYSTEM

FIRST USED ON SERIAL NO. C82P-3052



BRAKE AND HYDRAULIC SYSTEM

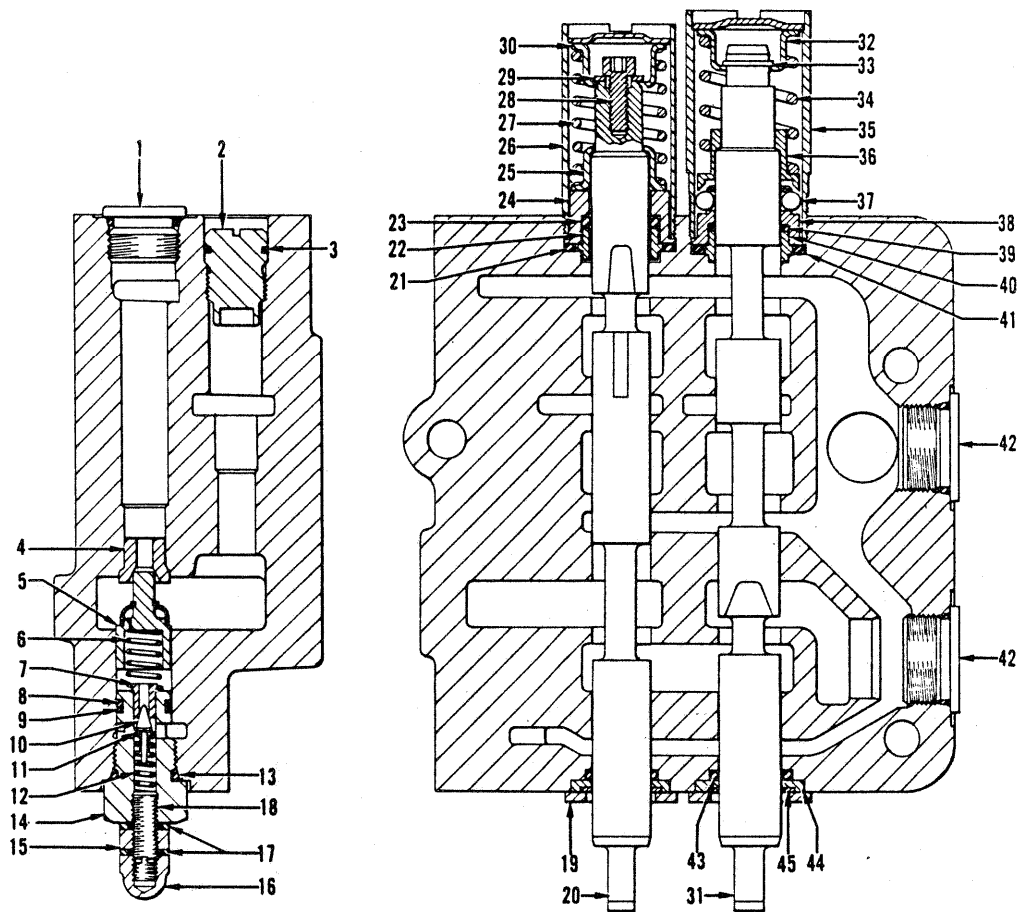
FIRST USED ON SERIAL NO. C82P-3052

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4				1 2 3 4	
1	14598	PLUG	1	31	198348	VALVE	1
1	16485	O-RING	1	32	16589	LOCKNUT	1
2	14500	ELBOW	1	33	196028	WASHER	1
3	198350	CONNECTOR	1	34	16487	O-RING	1
3	16982	O-RING	1	35	198069	POPPET-CHECK VALVE	1
3	198349	ELBOW-SPECIAL	1	36	198066	SPRING	1
3	14349	PLUG	1	37	196033	PLUG	1
4	.....	VALVE-SEE PAGE F8	1	37	16487	O-RING	1
5	198352	ELBOW-SPECIAL	1	38	96725	PIN	1
5	16586	O-RING	1	39	96780	LINK-BRAKE	1
5	16484	LOCKNUT	1	39	104607	BUSHING	4
5	14349	PLUG	1	40	128383	PIN-BRAKE	1
6	198063	ELBOW	1	41	92689	ROD END	1
6	16586	O-RING	1	42	15030	NUT-JAM 5/8 UNF	1
6	16484	LOCKNUT	1	43	128386	BAND-BRAKE	1
6	14349	PLUG	1	43	96300 A	LINING SET WITH RIVETS	1
7	164703	ELBOW	1	44	198363	TUBE	1
7	16486	O-RING	1	45	17650	ELBOW	1
7	16588	LOCKNUT	1	46	12838	TEE	1
7	14349	PLUG	1	47	17315	CONNECTOR	1
8	198385	CAPSCREW-1/2 UNC X 3 1/2	3	48	14538	ELBOW-45 DEGREE	1
8	15158	LOCKWASHER-1/2	3	49	144050	NIPPLE-HOSE	1
9	.....	HOSE-PAGE G3 REF. 16 AND 17	2	50	127045	CLAMP-HOSE	2
10	14723	CONNECTOR	1	51	157532	HOSE	1
11	214641	HOSE	1	52	128002	CONNECTOR-BALL CHECK	2
12	214640	CONNECTOR-SPECIAL	1	53	140288	HOSE	1
12	14761	LOCKNUT	1	55	69239	ELBOW	1
12	16484	O-RING	1	56	198346	HOSE	1
13	.....	FILTER-PAGE G3 REF. 1	1	57	.....	CYLINDER-SEE PAGE F17	1
14	18595	CAPSCREW-1/2 UNC X 4 1/2	4	58	89051	PIN	1
14	15158	LOCKWASHER-1/2	4	60	133943	HOSE	1
15	174410	COVER	1	61	198361	TUBE	1
16	177409	GASKET	2	62	16455	ELBOW	1
17	160387	FILTER	1	62	14758	LOCKNUT	1
18	204241	MANIFOLD-INTAKE	1	63	16468	ELBOW-45	1
19	177369	VALVE-FOOT	1	63	14763	LOCKNUT	1
20	15226	COTTER-1/8 X 1 3/4	1	64	186311	COVER	1
21	15223	COTTER-1/8 X 1	1	65	169268	CAPSCREW-1/2 UNC X 1 1/4 G5	5
22	159	PIN-ROD END	1	65	163249	CAPSCREW-1/2 UNC X 2 1/2 G5	4
23	95996	SPACER	1	65	15158	WASHER-1/2	9
24	184259	PIN	1	66	* 186318	GASKET	1
25	16829	CAPSCREW-1/2 UNC X 1 G5	1	67	.....	HOSE-SUCTION, TO PUMP	1
25	15158	LOCKWASHER-1/2	1	68	95628	LINK-BRAKE ADJUSTMENT	1
26	14604	PLUG	1	68	92688	ROD END-LH	1
26	16487	O-RING	1	69	95629	LINK	1
26	16589	LOCKNUT	1	70	15030	NUT-JAM, 5/8 UNF	2
27	184256	CRANK	1	71	92689	ROD END-RH	1
27	92705	BUSHING	1	72	159	PIN-ROD END	2
28	95989	PIN	1	72	15223	COTTER-1/8 X 1	2
29	19987	NIPPLE	1				
30	184258	SPRING	2				

*INCLUDED IN GASKET KIT 201871.

CONTROL VALVE

LAST USED ON SERIAL NO. C82P-3051



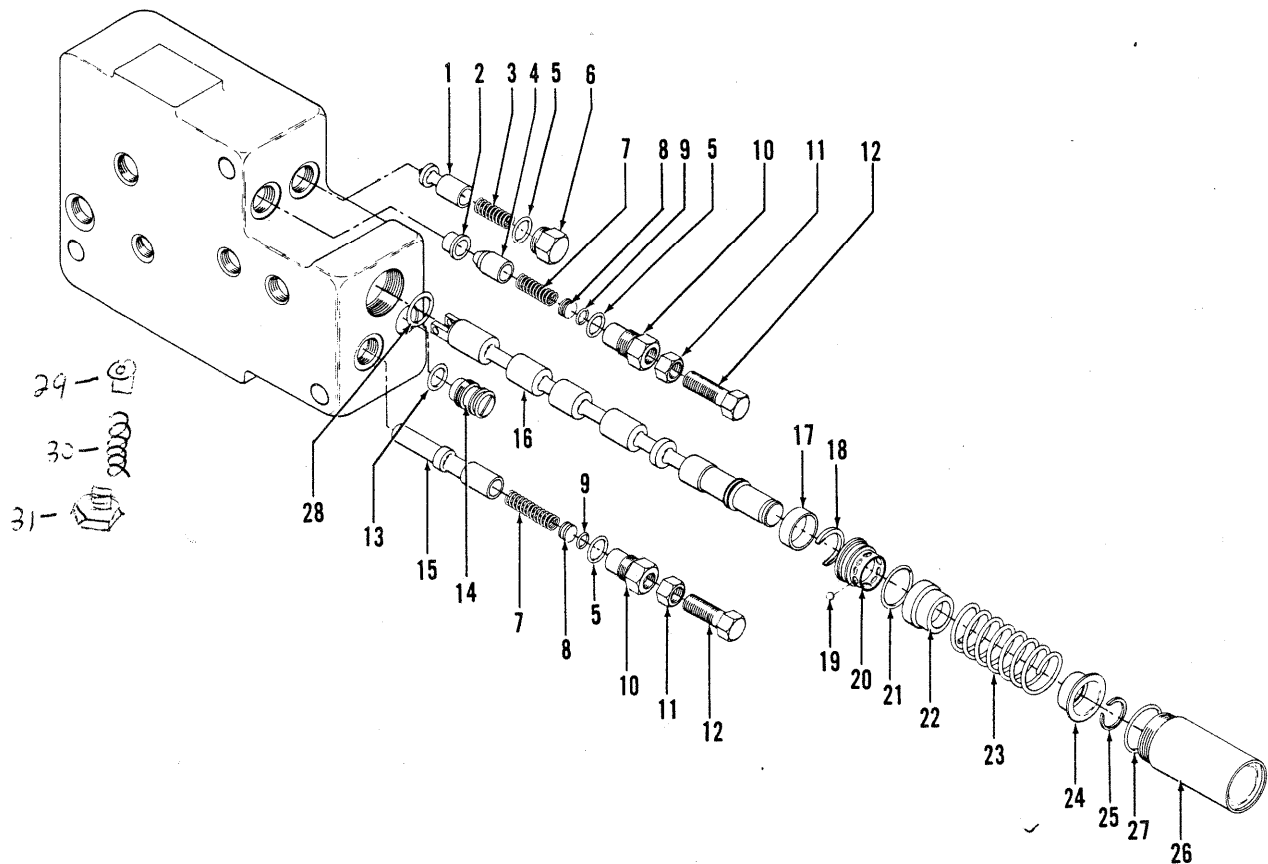
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
	168732	VALVE-CONTROL	1
1	233693	PLUG	4
1	16485	O-RING	1
2	233492	CAP	2
3	118389	O-RING	2
4	166917	VALVE-RELIEF	1
4	170988	SEAT	1
5	170989	POPPET	1
6	170993	SPRING	1
7	86976	SEAT-PILOT	1
8	159859	O-RING	1
9	159858	RING-BACK-UP	1
10	170995	PLUNGER-PILOT	1
11	170996	SLEEVE	1
12	166920	SPRING-PILOT	1
13	16484	O-RING	1
14	170994	CAP	1
15	233502	NUT-JAM	1
16	233503	NUT-ACORN	1
17	234823	WASHER-SEAL	2
18	170997	SETSCREW	1
19	233508	PLATE-RETAINER	2
19	233969	SCREW	4
20	166913	SPOOL-MODULATING	1
21	166912	O-RING	1
22	166909	RETAINER-SEAL	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
23	60836	O-RING	1
24	166910	RETAINER-SEAL	1
25	166905	RETAINER-SPRING	1
26	166906	CAP	1
27	166911	SPRING-SPOOL	1
28	166914	SCREW	1
29	166922	WASHER	1
30	166904	RETAINER-SPRING	1
31	170981	SPOOL SELECTOR	1
32	166904	RETAINER-SPRING	1
33	233495	SNAP RING	1
34	166911	SPRING-SPOOL	1
35	170985	CAP	1
36	170983	SPACER-SELECTOR	1
37	170987	BALL STEEL	8
38	170984	RETAINER-BALL	1
39	60836	O-RING	1
40	170986	RETAINER-SEAL	1
41	166912	O-RING	1
42	163660	PLUG	2
42	16486	O-RING	1
43	60836	O-RING	2
44	233506	RETAINER-SEAL	2
45	233505	WIPER	2
	166912	O-RING-VALVE TO SUPPORT	1

HYSTER COMPANY
PORTLAND, OREGON

CONTROL VALVE

FIRST USED ON SERIAL NO. C82P-3052



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
	196014	VALVE-CONTROL <i>262092</i>	1
1	196006	FORWARD MODULATING SPOOL	1
2	195990	RELIEF SEAT	1
3	196013	SPRING	1
4	195991	PLUNGER-RELIEF	1
5	16484	O-RING	3
6	196007	PLUG	1
7	195992	SPRING-RELIEF	2
8	195993	PLUG-O-RING	2
9	15860	O-RING	2
10	196004	FITTING-SPECIAL	2
11	15027	NUT-JAM, 7/16 UNF	2
12	195995	CAPSCREW-SPECIAL	2
13	118389	O-RING	1
14	233492	CAP	1

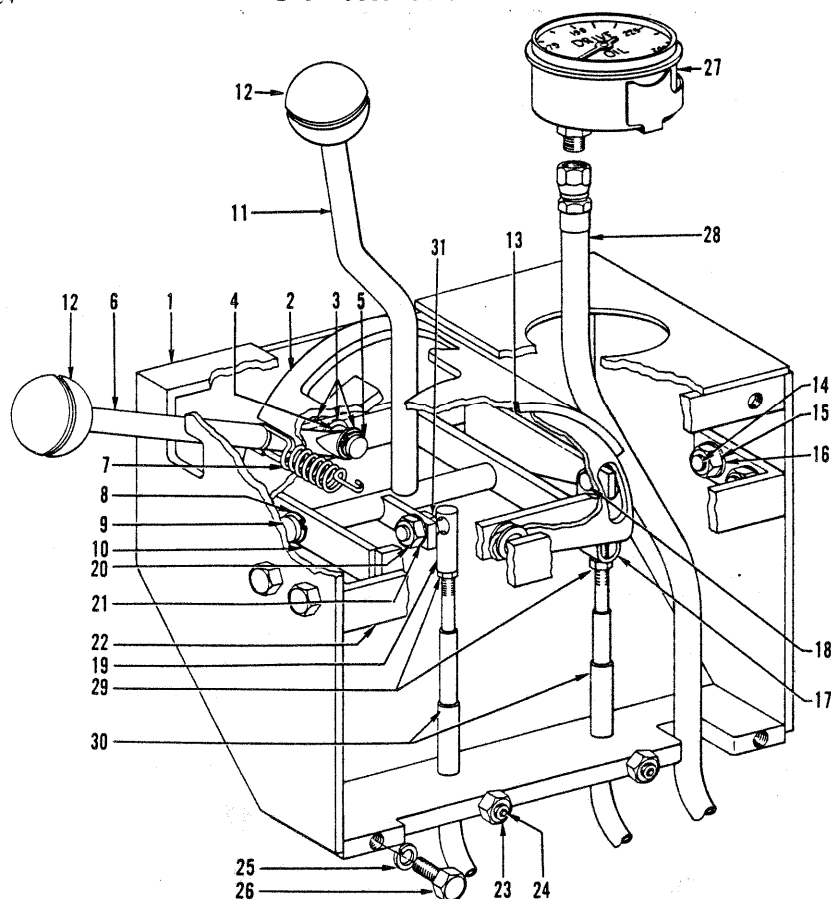
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
15	196003	REVERSE MODULATING SPOOL	1
16	195996	SPOOL	1
17	195999	RING	1
18	196000	RING	1
19	170987	BALL-STEEL	8
20	195997	RETAINER-DETENT	1
21	118365	O-RING	1
22	196001	SPACER-SELECTOR	1
23	166911	SPRING	1
24	166905	SPACER-CENTERING	1
25	196002	SNAP RING	1
26	196009	CAP	1
27	39376	O-RING	1
28	60836	O-RING	1
29	198068	<i>Poppett</i>	
30	137117	<i>Spring</i>	
31	196032	<i>Plug-Ftg.</i>	

HYSTER COMPANY
PORTLAND, OREGON

Same As D6D

HANDLING GEAR

LAST USED ON SERIAL NO. C82P-1899



KEY

A-FOR D5 TRACTOR SERIAL NO. 81H1-84H1 & UP, 95J1 & UP AND 96J1 & UP.
B-FOR D6 TRACTOR SERIAL NO. 10K1 & UP, 74A1 & UP, 76A1 & UP, 99J1 & UP.
C-FOR 977 TRAXCAVATOR SERIAL NO. 11K1 & UP AND 46H1 & UP.
D-FOR 977 TRAXCAVATOR SERIAL NO. 53A1 & UP.

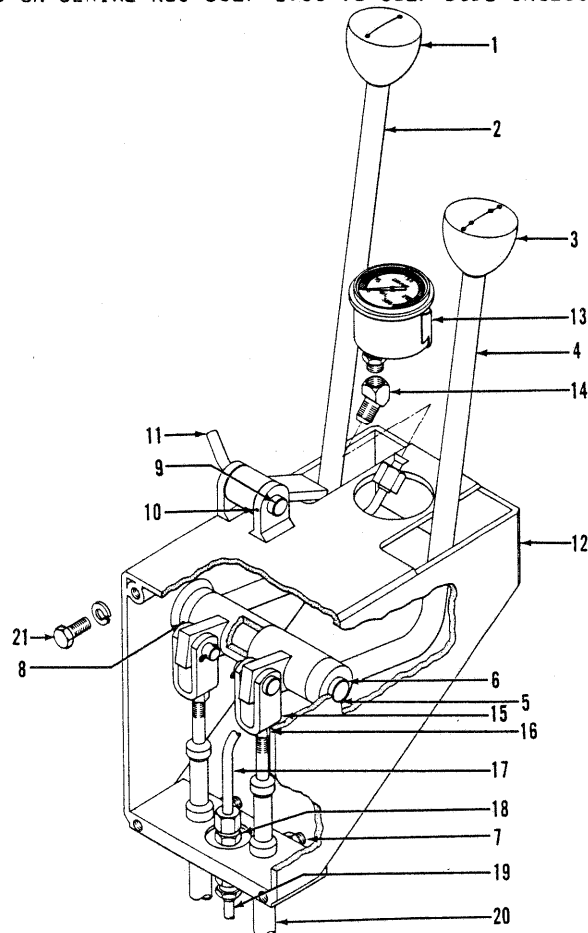
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			1	2	3	4
	165641	HANDLING GEAR	1	1	1	1
1	165634	HOUSING-HANDLEVER	1	1	1	1
2	165637	GATE-HANDLEVER	1	1	1	1
3	15134	WASHER	5	5	5	5
4	165517	BUSHING	1	1	1	1
5	175180	ROD	1	1	1	1
5	15028	NUT-JAM, 1/2 UNF	1	1	1	1
6	165643	LEVER	1	1	1	1
7	165639	SPRING	1	1	1	1
8	12897	SNAP RING	3	3	3	3
9	165510	ROD	1	1	1	1
10	165640	BASE	1	1	1	1
11	165645	LEVER	1	1	1	1
12	131976	KNOB-CONTROL	2	2	2	2
13	164701	PLATE	1	1	1	1
14	15675	CPSCR-1/4 UNC X 7/8	4	4	4	4
15	15054	NUT-1/4 UNC	4	4	4	4
16	15154	LOCKWASHER-1/4	4	4	4	4
17	165659	ROD END	1	1	1	1
18	133683	PIN	1	1	1	1
18	15211	COTTER-1/8 X 1/2	1	1	1	1
19	157593	BALL JOINT	1	1	1	1
19	* 181081	ROD END-HEAVY DUTY	1	1	1	1
20	15005	NUT-5/16 UNF	1	1	1	1
20	* 15005	NUT-5/16 UNF	1	1	1	1
20	* 15155	LOCKWASHER-5/16	1	1	1	1
20	* 16817	CAPSCREW-5/16 UNF	1	1	1	1
20		X 1 1/2 G5	1	1	1	1
21	15155	LOCKWASHER-5/16	1	1	1	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			
			A	B	C	D
21	* 182075	SPACER-NUT END	1	1	1	1
22	165644	BRACKET-GATE PIVOT	1	1	1	1
23	15001	NUT-JAM, 5/16 UNC	2	2	2	2
24	16220	SETSCR-5/16 UNC X 3/4	2	2	2	2
25	15155	LOCKWASHER-5/16	4	4	4	4
26	15553	CPSCR-5/16 UNC X 3/4	4	4	4	4
27	169782	GAUGE-BRAKE OIL PRESS.	1	1	1	1
27	14712	CONNECTOR-FEMALE	1	1	1	1
28	165505	HOSE	1	..	1	..
28	146296	HOSE	..	1	..	1
29	15025	NUT-JAM, 5/16 UNF	4	4	4	4
30	165492	CABLE-CONTROL	2	..	2	..
30	167255	CABLE-CONTROL	..	2	..	..
30	166055	CABLE-CONTROL	..	..	..	2
30	119025	CLAMP-CABLE LOCATING	1	..	..	..
30	18466	CAPSCREW-1/4 UNC X 1 1/4 G5	1	..	..	..
30	15113	LOCKNUT-1/4 UNC	1	..	..	..
31	* 182074	SPACER-CPSCR. HEAD END	1	1	1	1
	167264	GUARD-HANDLING GEAR	..	..	1	..
	156875	GRAB IRON	..	..	1	..
	167269	BRACKET-MOUNTING	..	..	..	1
	15529	CAPSCREW-3/8 UNC X 1	..	..	..	3
	15156	LOCKWASHER-3/8	..	..	..	3
	15056	NUT-3/8 UNC	..	..	..	3

*FOR USE WITH HEAVY DUTY ROD END.
□NOT ILLUSTRATED.

HANDLING GEAR

USED ON SERIAL NO. C82P-1900 TO C82P-3051 INCLUSIVE



KEY

A-FOR D5 TRACTOR SERIAL NO. 81H1-84H1 & UP, 95J1 & UP AND 96J1 & UP.
 B-FOR D6 TRACTOR SERIAL NO. 74A1-76A1 & UP.
 C-FOR 977 TRAXCAVATOR SERIAL NO. 11K1 & UP AND 46H1 & UP.
 D-FOR 977 TRAXCAVATOR SERIAL NO. 53A1 & UP.
 E-FOR D6 TRACTOR SERIAL NO. 10K1 & UP, 99J1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.				
			1	2	3	4	5
	189086	HANDLEVER	1	1	1	1	..
	189085	HANDLEVER	..	..	..	..	1
	* 189085	HANDLEVER	..	1	..	..	1
1	172744	KNOB-BRAKE	1	1	1	1	1
2	172757	LEVER-INCHING	1	1	1	1	..
2	183584	LEVER-INCHING	..	..	..	..	1
3	172747	KNOB-FWD.-REVERSE	1	1	1	1	1
4	172759	LEVER-SELECTOR	1	1	1	1	..
5	174421	BUSHING	2	2	2	2	2
6	172748	PIN	1	1	1	1	1
7	173310	SETSCREW-5/16 UNC					
7		X 1	2	2	2	2	2
7	15001	NUT JAM-5/16 UNC	2	2	2	2	2
8	19981	ROLL PIN-1/8					
8		X 1 1/4	1	1	1	1	1
9	172751	ROD	1	1	1	1	1
10	174564	ROLL PIN-3/32 X 1	1	1	1	1	1
11	172752	LEVER	1	1	1	1	1
12	196151	HOUSING-HANDLEVER	1	1	1	1	1
13	169782	GAUGE-OIL PRESSURE	1	1	1	1	..
13	□ 192407	GAUGE-OIL PRESSURE	1	1	1	1	..
14	172762	ELBOW	1	1	1	1	..
15	95709	ROD END-3/8	2	2	2	2	..
15	142	PIN-ROD END 3/8	2	2	2	2	..
15	15212	COTTER PIN 3/32 X3/4	2	2	2	2	..
16	15025	NUT-JAM, 5/16 UNF	4	4	4	4	..
17	174422	TUBE	1	1	1	1	..

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.				
			1	2	3	4	5
17	□ 192408	TUBE	1	1	1	1	..
18	16445	FITTING	1	1	1	1	..
19	165505	HOSE-HYDRAULIC	1	..	1	..	..
19	146296	HOSE-HYDRAULIC	..	1	..	1	..
19	176455	CLAMP	..	1	..	1	..
20	165492	CABLE-CONTROL	2	..	2	..	..
20	* 187227	CABLE-CONTROL	2	..	2	..	..
20	167255	CABLE-CONTROL	..	2	..	..	2
20	* 186321	CABLE-CONTROL	..	2	..	..	2
20	166055	CABLE-CONTROL	..	..	..	2	..
20	119025	CLAMP-CABLE LOCATING	1	..	..	..	..
20	18466	CAPSCREW-1/4 UNC					
20		X 1 1/4 G5	1	..	..	..	..
20	15113	LOCKNUT-1/4 UNC	1	..	..	..	..
21	15155	LOCKWASHER-5/16	4	4	4	4	..
21	15553	CAPSCREW-5/16 UNC					
21		X 3/4	4	4	4	4	..
	172761	DECAL-OPER. INSTR.	1	1	1	1	..
	172763	GUARD-HNDLG. GEAR	..	..	1	..	..
	172724	GRAB IRON	..	..	1	..	..
	172659	BRACKET	..	..	..	1	..
	15529	CPSCR-3/8 UNC X 1	..	..	..	3	..
	15156	LOCKWASHER-3/8	..	..	..	3	..
	15056	NUT-3/8 UNC	..	..	..	3	..

*FIRST USED ON SERIAL NO. C82P-2742.

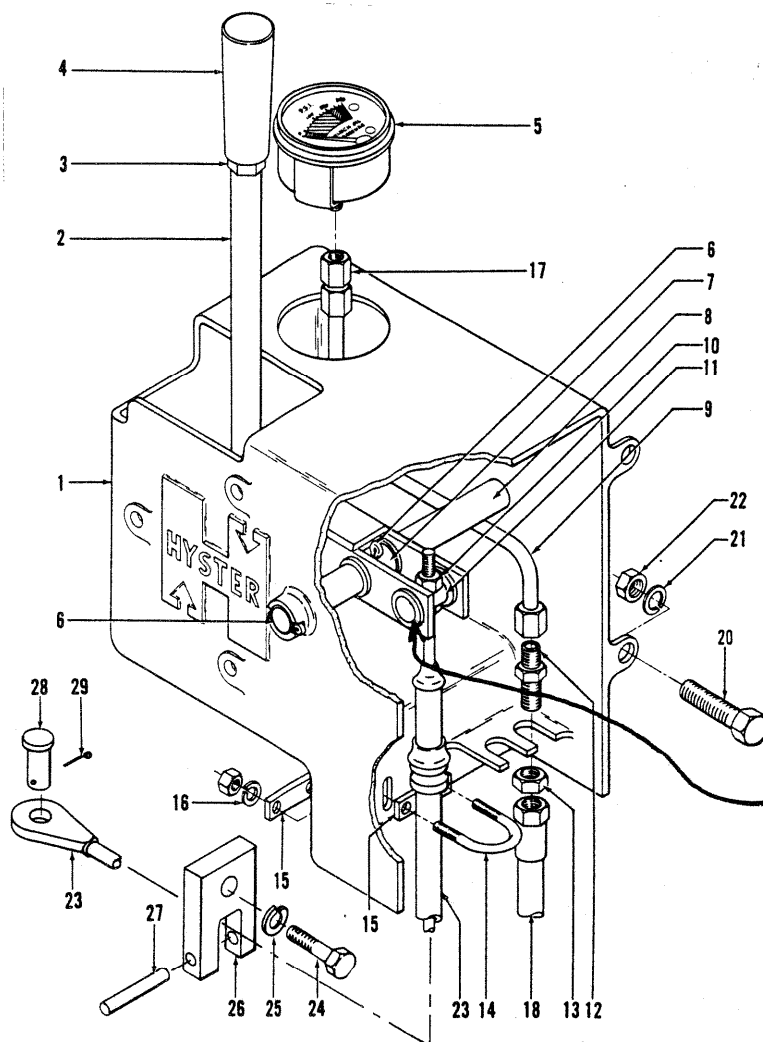
□FIRST USED ON SERIAL NO. C82P-2817.

HYSTER COMPANY
 PORTLAND, OREGON

237287- Decal See Gram
 A99-2-19

HANDLING GEAR

FIRST USED ON SERIAL NO. C82P-3052



KEY

A-FOR D5 TRACTOR SERIAL NO. 95J1 AND UP AND 96J1 AND UP.

B-FOR D6 TRACTOR SERIAL NO. 74A1-76A1 AND UP, 10K1 AND UP AND 99J1 AND UP.

C-FOR 977 TRAXCAVATOR SERIAL NO. 11K1 AND UP AND 46H1 AND UP.

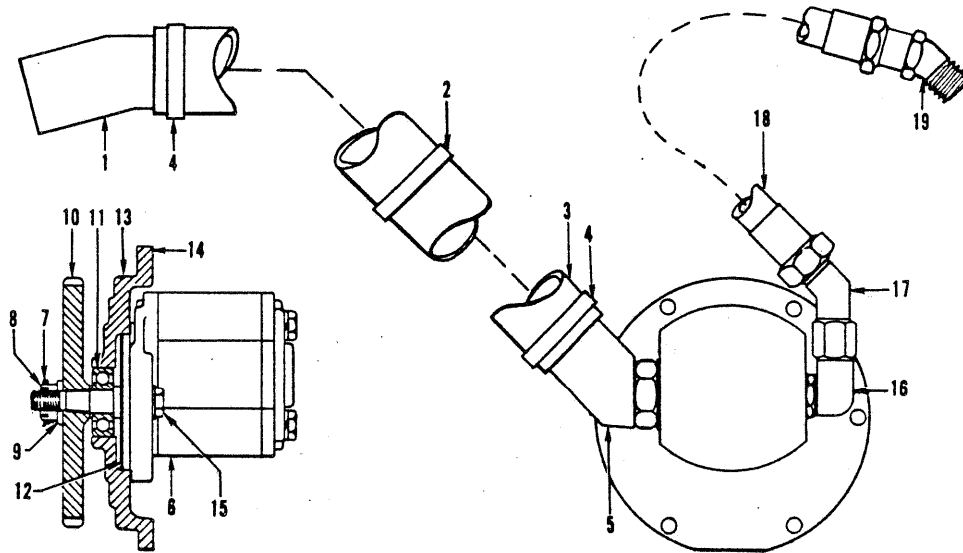
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.		
			1	2	3
	196462	HANDLEVER	1	1	1
1	196114	HOUSING	1	1	1
2	196465	LEVER	1	1	1
3	15030	NUT-JAM, 5/8 UNF	1	1	1
4	196469	KNOB	1	1	1
5	192407	GAUGE-OIL PRESSURE	1	1	1
6	15223	COTTER-1/8 X 1	3	3	3
7	196132	SPACER	1	1	1
8	196468	PIN	1	1	1
9	196134	TUBE	1	1	1
10	18460	CPSCR.-1/4 UNC X 3/4 G5	1	1	1
10	15106	LOCKNUT-1/4 UNF	1	1	1
11	196128	PIN	1	1	1
12	16445	UNION-BULKHEAD	1	1	1
13	14758	LOCKNUT	1	1	1
14	196129	U BOLT	1	1	1
15	196130	SPACER	2	2	2
16	15155	LOCKWASHER-5/16	2	2	2
17	14712	CONNECTOR	1	1	1
18	146296	HOSE	..	1	..
18	165505	HOSE	1	..	1
18	79377	CLAMP	..	1	..

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.		
			A	B	C
18	156871	BRACKET-HOSE	..	..	1
18	110322	CLAMP	1	..	1
18	18535	CAPSCREW-3/8 UNC X 5/8 G5	..	..	1
18	15156	LOCKWASHER-3/8	..	..	1
18	15056	NUT-3/8 UNC	..	..	1
18	16828	CPSCR.-3/8 UNC X 1 1/4 G5	1	..	..
18	15115	LOCKNUT-3/8 UNC	1	..	..
20	16805	CAPSCREW-3/8 UNC X 1 G5	4	4	4
21	15156	LOCKWASHER-3/8	4	4	4
22	15056	NUT-3/8 UNC	4	4	4
23	203248	CABLE-CONTROL	..	1	..
23	203232	CABLE-CONTROL	1	..	1
24	16830	CPSCR.-1/2 UNC X 1 1/4 G5	1	1	1
25	15158	LOCKWASHER-1/2	1	1	1
26	196034	BRACKET-CABLE	1	1	1
27	62499	ROLL PIN-5/16 X 1 1/4	1	1	1
28	139	PIN-ROD END	1	1	1
29	15212	COTTER-3/32 X 3/4	1	1	1
	198932	DECAL-OPERATING INSTRUCTIONS	1	1	1
	204944	GUARD-HANDLING GEAR	..	..	1

HYSTER COMPANY
PORTLAND, OREGON237287 Decal - See
Geom A99-Z-19

PUMP DRIVE AND HOSES

FOR D5 TRACTOR SERIAL NO. 95J1 AND UP AND 96J1 AND UP

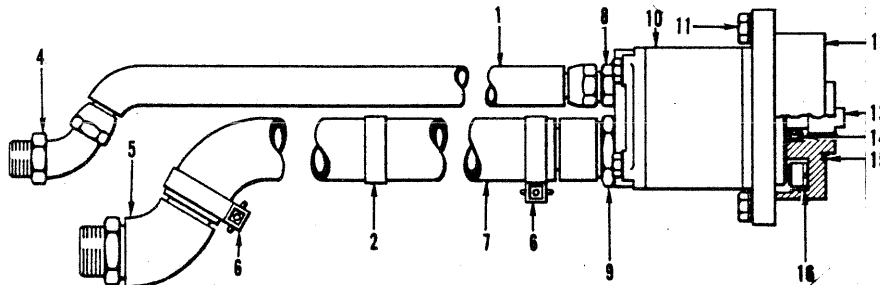


REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	154956	NIPPLE-HOSE, 45 DEGREE	1
2	154955	CLAMP-HOSE LOCATING	1
2	18537	CAPSCREW-3/8 UNC X 2 1/2 G5	1
2	15115	LOCKNUT-3/8 UNC	1
3	161840	HOSE	1
4	119236	CLAMP-HOSE	2
5	161841	NIPPLE-HOSE, 45 DEGREE SPECIAL	1
5	16487	O-RING	1
5	16589	LOCKNUT	1
6	.....	PUMP-HYDRAULIC, SEE PAGE F16	1
7	15234	COTTER-5/32 X 1 1/4	1
8	15078	NUT-SLOTTED, 1/2 UNF	1
9	15135	WASHER-1/2	1
10	161838	GEAR-PUMP DRIVE	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
11	43302	BEARING-BALL	1
12	132044	GASKET	1
13	230877	GASKET	1
14	217216	ADAPTER-PUMP MOUNTING	1
15	18877	CPSCR-LOCKING, 3/8 UNC X 1 1/4	2
15	15134	WASHER-3/8	2
16	16560	ELBOW	1
16	16485	O-RING	1
16	16587	LOCKNUT	1
17	17039	ELBOW-45 DEGREE SWIVEL	1
18	161842	HOSE	1
19	17040	ELBOW-45 DEGREE SWIVEL	1
19	167260	REDUCER	1
19	167261	NUT	1

PUMP DRIVE AND HOSES

FOR D6 TRACTOR SERIAL NO. 10K1 AND UP, 74A1 AND UP, 76A1 AND UP AND 99J1 AND UP



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	76817	HOSE	1
2	105669	CLAMP-HOSE LOCATING	1
4	17040	ELBOW-45 DEGREE SWIVEL	1
5	111330	ELBOW-45 DEGREE SPECIAL	1
6	119236	CLAMP-HOSE	2
7	140372	HOSE	1
8	142682	CONNECTOR-MALE	1
8	16485	O-RING	1
9	155579	NIPPLE-HOSE, SPECIAL	1
9	16486	O-RING	1

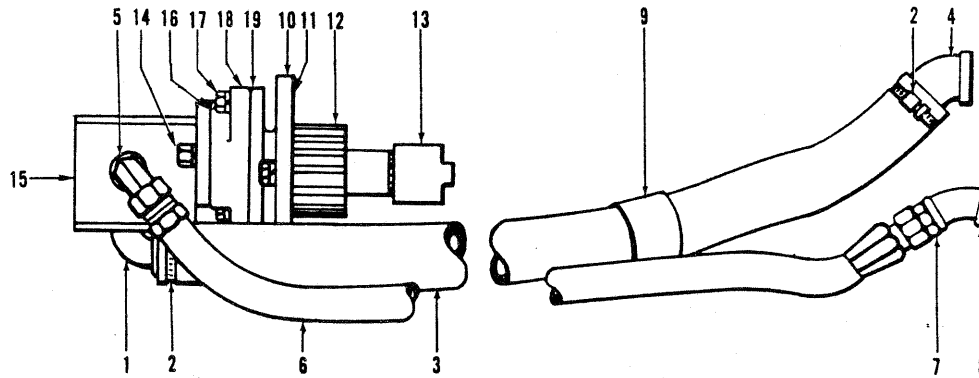
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
10	.....	PUMP-HYD., SEE PAGE F16 AND F17	1
11	16828	CAPSCREW-3/8 UNC X 1 1/4 G5	2
11	15156	LOCKWASHER-3/8	2
12	89045	BRACKET-PUMP MOUNTING	1
13	89047	COUPLING-SHAFT	1
14	155577	SEAL-OIL	1
15	55407	O-RING	1
16	27187	CAPSCREW-3/8 UNC X 1	2
16	177947	LOCKWASHER-HC, 3/8	2

HYSTER COMPANY
PORTLAND, OREGON

See Gram A0-F-2

PUMP DRIVE AND HOSES

FOR 977 TRAXCAVATOR SERIAL NO. 11K1 AND UP AND 46H1 AND UP

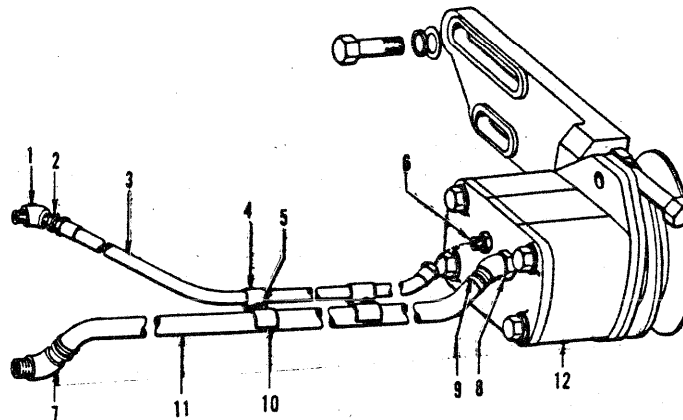


REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	16562	ELBOW	1
1	16487	O-RING	1
1	16589	LOCKNUT	1
1	156866	TUBE	1
2	119236	CLAMP-HOSE	2
3	156869	HOSE	1
4	154956	NIPPLE-HOSE, 45 DEGREE	1
5	16560	ELBOW	1
5	16485	O-RING	1
5	16587	LOCKNUT	1
6	156865	HOSE	1
7	17781	REDUCER	1
8	17040	ELBOW-45 DEGREE SWIVEL	1
8	167261	NUT-TUBE FITTING	1
9	156870	BRACKET-HOSE	1
9	156871	BRACKET-HOSE	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
9	115922	CLAMP-HOSE LOCATING	2
9	18535	CAPSCREW-3/8 UNC X 5/8 G5	2
9	15156	LOCKWASHER-3/8	2
9	15056	NUT-3/8 UNC	2
10	156092	COVER-PUMP	1
11	15893	O-RING	1
12	156091	GEAR-PUMP DRIVE	1
13	89047	COUPLING	1
14	16828	CAPSCREW-3/8 UNC X 1 1/4 G5	2
14	15156	LOCKWASHER-3/8	2
15	.....	PUMP-HYDRAULIC, SEE PAGE F16	1
16	97952	GASKET	1
17	16805	CAPSCREW-3/8 UNC X 1 G5	2
17	15156	LOCKWASHER-3/8	2
18	156861	ADAPTER	1
19	109607	O-RING	1

HYDRAULIC HOSES

FOR 977 TRAXCAVATOR SERIAL NO. 53A1 AND UP



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	17040	ELBOW-45 DEGREE SWIVEL	1
1	167261	NUT-TUBE FITTING	1
2	167260	REDUCER	1
3	97962	HOSE	1
3	* 89888	HOSE	1
4	60016	CLAMP-HOSE LOCATING	3
5	18467	CAPSCREW-1/4 UNF X 1 1/4 G5	3
5	15154	LOCKWASHER-1/4	3
5	15004	NUT-1/4 UNF	3
6	16541	CONNECTOR-MALE	1
6	16484	O-RING	1
7	111330	NIPPLE-45 DEGREE	1

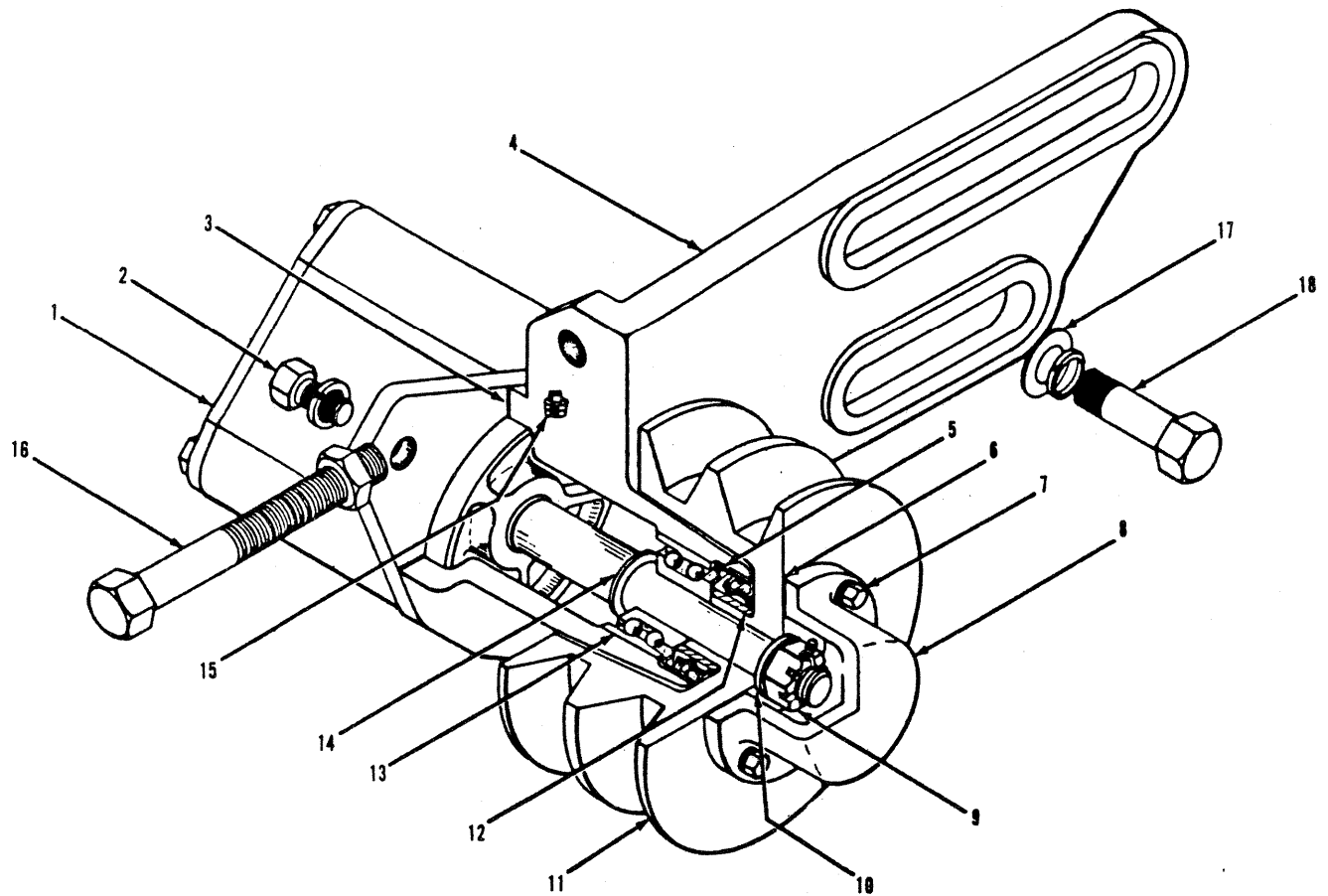
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
7	* 135488	NIPPLE-30 DEGREE	1
8	97961	NIPPLE-HOSE, SPECIAL	1
8	16486	O-RING	1
8	16588	LOCKNUT	1
9	18994	CLAMP-HOSE	2
10	15978	CLAMP-HOSE LOCATING	3
11	97963	HOSE	1
11	* 135486	HOSE	1
12	.....	PUMP AND PULLEY-SEE PAGE F14	1

*FIRST USED ON SERIAL NO. 53A4797.

HYSTER COMPANY
PORTLAND, OREGON

PUMP DRIVE

FOR 977 TRAXCAVATOR SERIAL NO. 53A1 AND UP



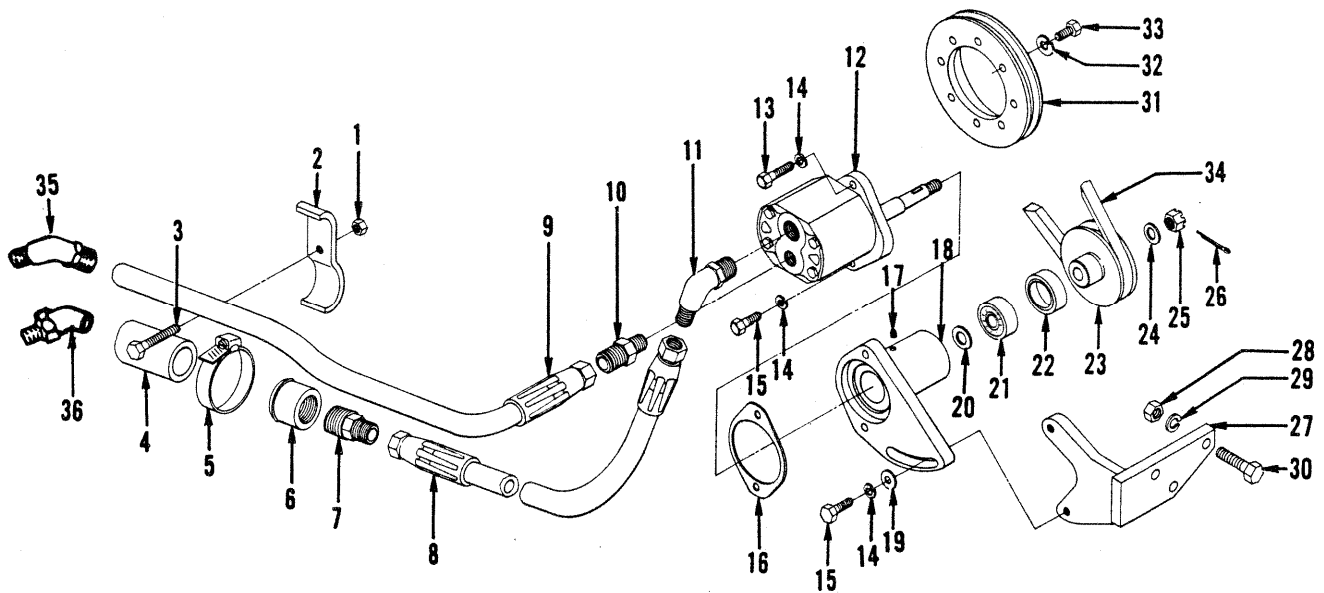
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
	97950 A	PUMP AND PULLEY	1
1	.....	PUMP-HYDRAULIC, SEE PAGE F16	1
2	16634	CAPSCREW-3/8 UNF X 1 G5	2
2	15156	LOCKWASHER-3/8	2
3	97952	GASKET	1
4	97953	BRACKET-PUMP DRIVE	1
5	97955	SEAL-OIL	1
6	97959	GASKET	1
7	18460	CAPSCREW-1/4 UNC X 3/4 G5	4
7	15154	LOCKWASHER-1/4	4
8	97960	COVER-PULLEY	1
9	15078	NUT-SLOTTED, 1/2 UNF	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
9	15213	COTTER-3/32 X 1	1
10	15135	WASHER-1/2	1
11	97956 A	PULLEY	1
12	97958	SLEEVE-WEAR	1
13	45303	BEARING-BALL	1
14	97954	WASHER-SPECIAL	1
15	15306	PLUG-PIPE, 1/8	1
16	97964	BOLT-ADJUSTING	1
16	15015	NUT-JAM, 5/8 UNC	1
17	15135	WASHER-1/2	3
18	18588	CAPSCREW-1/2 UNC X 1 1/2 G5	3

HYSTER COMPANY
PORTLAND, OREGON

PUMP DRIVE AND HOSES

FOR D5 TRACTOR SERIAL NO. 81H1-84H1 AND UP



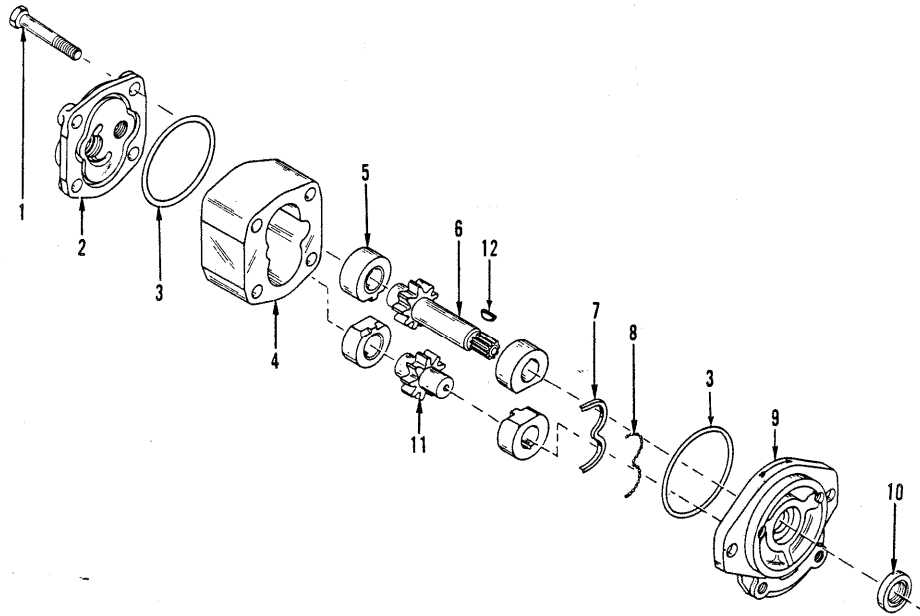
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	15115	LOCKNUT-3/8 UNC	2
2	154955	CLAMP-HOSE LOCATING	2
3	18537	CAPSCREW-3/8 UNC X 2 1/2 G5	2
4	154964	HOSE	1
4	154965	HOSE	1
5	119236	CLAMP-HOSE	2
6	155297	TUBE	1
7	17346	CONNECTOR	1
8	154954	HOSE	1
9	155298	HOSE	1
10	154952	CONNECTOR-MALE	1
10	16484	O-RING	1
11	16570	ELBOW-45 DEGREE	1
11	16486	O-RING	1
11	16588	LOCKNUT	1
12	145072	PUMP AND DRIVE	1
12	.....	PUMP-HYDRAULIC, SEE PAGE F16	1
13	16816	CAPSCREW-3/8 UNC X 1 3/4 G5	1
14	15156	LOCKWASHER-3/8	3
15	16828	CAPSCREW-3/8 UNC X 1 1/4 G5	2
16	97952	GASKET	1
17	15306	PLUG-PIPE, 1/8	1
18	145077	CARRIER-BEARING	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
19	15134	WASHER-3/8	1
20	97954	WASHER-SPECIAL	1
21	43303	BEARING-BALL	1
22	97955	SEAL-OIL	1
23	156081	PULLEY-PUMP	1
24	15135	WASHER-1/2	1
25	15078	NUT-SLOTTED, 1/2 UNF	1
26	15213	COTTER-3/32 X 1	1
27	145073	BRACKET-PUMP MOUNTING	1
28	15058	NUT-1/2 UNC	3
29	15158	LOCKWASHER-1/2	3
30	16813	CAPSCREW-1/2 UNC X 2 G5	3
31	145070	PULLEY-CRANKSHAFT	1
32	15156	LOCKWASHER-3/8	8
33	16805	CAPSCREW-3/8 UNC X 1 G5	8
34	154951	V-BELT	1
35	17040	ELBOW-45 DEGREE	1
36	154956	NIPPLE-HOSE, 45 DEGREE SPECIAL	1

*FOR TRACTOR SERIAL NO. 81H1 AND UP AND 82H1 AND UP.

□FOR TRACTOR SERIAL NO. 83H1 AND UP AND 84H1 AND UP.

HYDRAULIC PUMP



KEY

A-FOR D5 TRACTOR SERIAL NO. 81H1-84H1 & UP.

B-FOR D6 TRACTOR SERIAL NO. 10K1 & UP, 74A1 & UP, 76A1 & UP, 99J1 & UP, LAST USED UN SERIAL NO. C82P-1872.

C-FOR 977 TRAXCAVATOR SERIAL NO. 11K1 & UP AND 46H1 & UP.

D-FOR 977 TRAXCAVATOR SERIAL NO. 53A1 & UP.

E-FOR D5 TRACTOR SERIAL NO. 95J1 & UP & 96J1 & UP. Also 6R Series, Same As 95J

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.				
			1	2	3	4	5
	155296	PUMP-HYDRAULIC	1	..	..	..	..
	155578	PUMP-HYDRAULIC	..	1	..	..	..
	155161	PUMP-HYDRAULIC	..	..	1	..	..
	97951 A	PUMP-HYDRAULIC	..	..	..	1	..
	155162	PUMP-HYDRAULIC	..	..	..	..	1
1	* 124247	CAPSCREW	4	..	..	4	..
1	132596	CAPSCREW-5/16 UNC	..	..	..	..	..
1		X 3	..	4	..	..	..
1	160757	CAPSCREW-5/16 UNC	..	..	..	..	..
1		X 3 1/4	..	2	..	..	..
1	160758	CPSCR.-12 POINT,	..	2	..	..	..
1		5/16 UNC X 3 1/4	..	2	..	..	..
1	* 125869	CAPSCREW	..	..	..	4	4
1	* 235931	WASHER	..	..	..	4	4
2	124241	COVER-REAR	1	..	..	1	..
2	154968	COVER-REAR	..	1	..	..	..
2	157440	COVER-REAR	..	..	1	..	1
3	* □	SEAL	2	..	2	2	2
4	.....	BODY	1	..	1	1	..
4	160752	BODY	..	1	..	..	..
4	168948	BODY	..	..	..	..	1
4	160756	PIN-DOWEL	..	2	..	..	..
5	*	BEARING	4	..	4	4	..
5	* 168950	BEARING	..	..	..	..	4
6	#	GEAR-DRIVE	1	..	1	1	1
6	160754	GEAR-DRIVE	..	1	..	..	..
7	* □	GASKET	1	..	1	1	1
7	* 160760	DIAPHRAGM	..	1	..	..	..
7	* 160761	GASKET-BACK-UP	..	1	..	..	..

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.				
			1	2	3	4	5
8	* 160762	GASKET-PROTECTOR	..	1	..	..	..
8	* 132715	SEAL-DIAPHRAGM	..	1	..	..	..
9	124240	COVER-FRONT	1	..	..	1	1
9	160755	COVER-FRONT	..	1	..	..	..
9	157349	COVER-FRONT	..	..	1	..	..
10	* 132718	SEAL-SHAFT	..	1	..	..	..
10	* □	SEAL-SHAFT	..	..	1	..	1
11	#	GEAR-DRIVEN	1	..	1	1	1
11	160753	GEAR-DRIVEN	..	1	..	..	..
12	* 124248	KEY-GEAR	1	..	..	1	..
12	* 790	KEY-GEAR	..	..	..	..	1
	* 68964	BALL-CHECK, NOT ILLUSTRATED	..	2	..	..	..
	* 160759	SPRING-NOT ILL.	..	2	..	..	..
	124245	REPAIR KIT-MAJOR	1	..	..	1	..
	132597	REPAIR KIT-MAJOR	..	1	..	..	..
	157442	REPAIR KIT-MAJOR	..	..	1	..	..
	168949	REPAIR KIT-MAJOR	..	..	..	..	1
	124249	REPAIR KIT-MINOR	1	..	..	1	..
	157443	REPAIR KIT-MINOR	..	..	1	..	1
	157438	GEAR KIT	1	..	..	..	..
	157441	GEAR KIT	..	..	1	..	..
	124242	GEAR KIT	..	..	..	1	..
	168692	GEAR KIT	..	..	..	..	1

*INCLUDED IN MAJOR REPAIR KIT.

□INCLUDED IN MINOR REPAIR KIT.

#INCLUDED IN GEAR KIT.

HYSTER COMPANY
PORTLAND, OREGON

Same As D6D

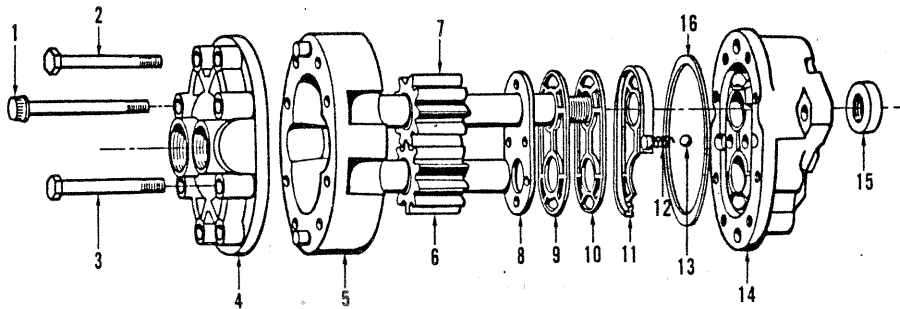
F17

HYDRAULIC PUMP

FOR D6 TRACTOR SERIAL NO. 10K1 AND UP, 74A1 AND UP, 76A1 AND UP AND 99J1 AND UP

FIRST USED ON SERIAL NO. C82P-1873

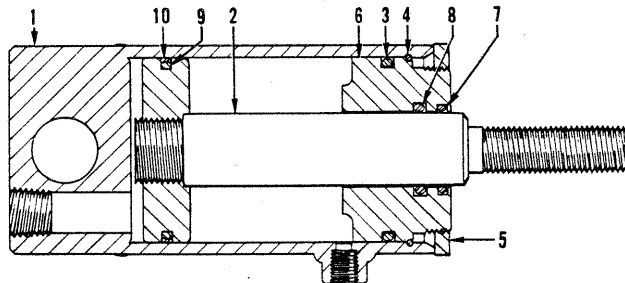
also D6D 4X



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
	173108	PUMP-HYDRAULIC	1
1	132596	CAPSCREW-5/16 UNC X 3	2
2	160757	CAPSCREW-5/16 UNC X 2 1/2	4
3	160758	CAPSCREW-5/16 UNC X 3	2
4	175145	PLATE-BACK	1
5	175153	BODY	1
5	160756	PIN DOWEL	1
6	175155	GEAR-IDLER	1
7	175154	GEAR-DRIVE	1
8	* 160760	DIAPHRAGM	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
9	* 160761	GASKET-BACK UP	1
10	* 160762	GASKET-PROTECTOR	1
11	* 132715	SEAL-DIAPHRAGM	1
12	* 160759	SPRING-CHECK VALVE	2
13	* 68964	BALL-CHECK	2
14	160755	PLATE-FRONT	1
15	* 132718	SEAL-SHAFT	1
16	* 170883	O-RING	1
*INCLUDED IN SEAL REPAIR KIT 171252.			

Same As D6D

BRAKE CYLINDER**KEY**

A-FOR CYLINDER LAST USED ON SERIAL NO. C82P-2741.

B-FOR CYLINDER FIRST USED ON SERIAL NO. C82P-2742.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	A B
	165200	CYLINDER-BRAKE	1 ..
	187229	CYLINDER-BRAKE	.. 1
1	.....	SHELL	1 1
2	165450	PISTON AND ROD	1 1
3	* 57664	O-RING	1 1
4	* 165615	RING-LOCK	1 1
5	* 165613	NUT-BEARING	1 1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	A B
6	165612	BEARING	1 1
7	* 165616	SEAL	1 1
8	* 61056	O-RING	1 1
9	* 162074	O-RING	1 1
10	* 162076	RING-PISTON	1 1

*INCLUDED IN SEAL KIT 165614.

HYSTER COMPANY
PORTLAND, OREGON

Section G

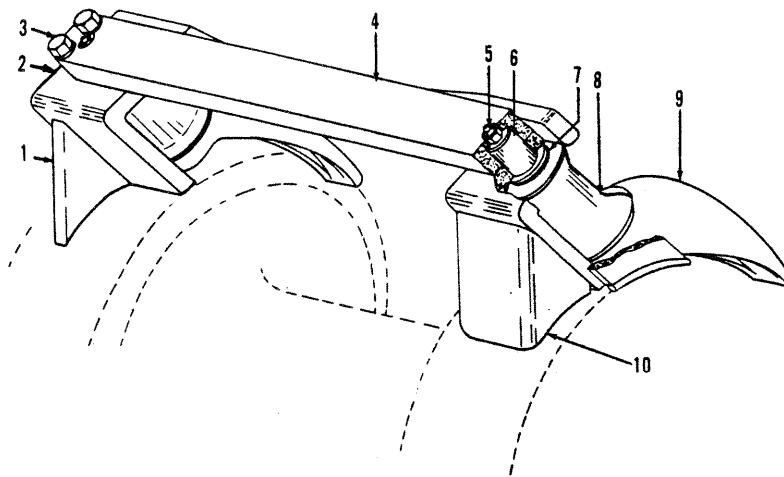
OPTIONAL EQUIPMENT

INDEX

CABLE GUIDE ROLLERS.....	G1
FAIRLEAD.....	G1
FREE SPOOL HANDLING GEAR.....	G2
OIL FILTER.....	G3

USE HYSTER APPROVED PARTS... *it pays*

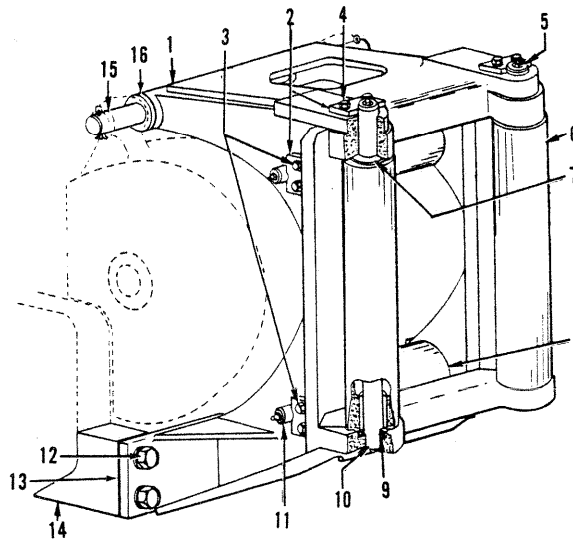
Same As D6D

CABLE GUIDE ROLLERS

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4				1 2 3 4	
	95896 A	ROLLER-CABLE GUIDE	1	5	16006	FITTING-LUBE	2
1	95892	GUSSET-RH BRACKET	1	6	95669	PIN-ROLLER	2
2	95883 W	BRACKET-RH ROLLER	1	7	95668	WASHER	6
3	95891	GUSSET	1	8	95666 A	ROLLER	2
4	16045	CAPSCREW-5/8 UNF X 2 1/4 G5	4	8	35135	BUSHING	2
3	15160	LOCKWASHER-5/8	4	9	95879 W	BRACKET-LH ROLLER	1
4	95898 W	GUARD-CABLE	1	10	95890	BRACKET-LH	1

FAIRLEAD

Same As D6D



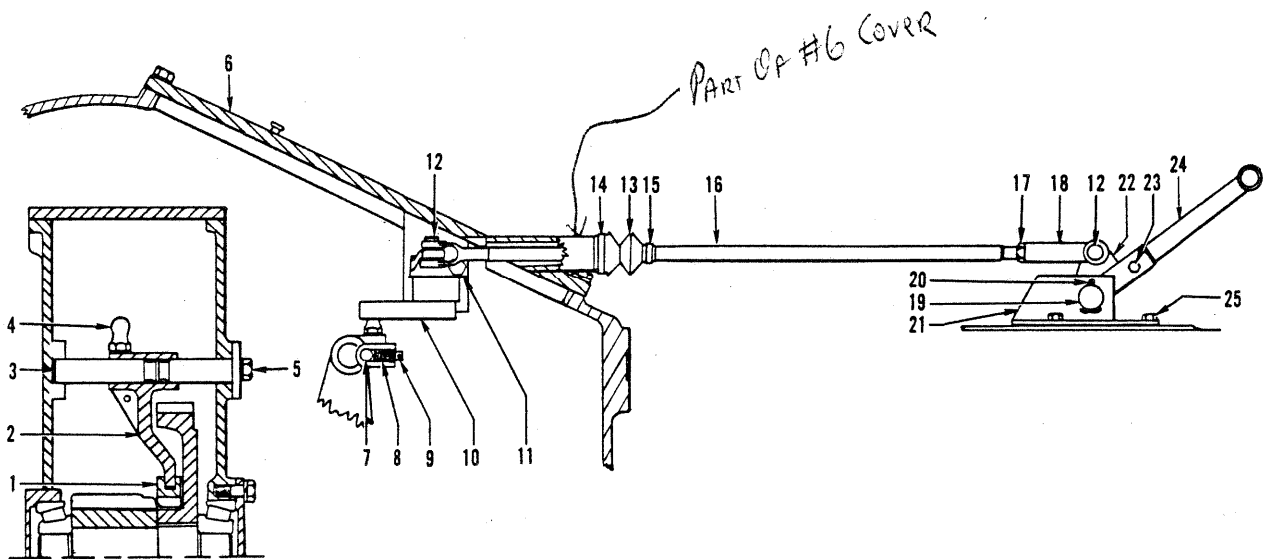
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4				1 2 3 4	
	152993	FAIRLEAD	1	8	59419	BUSHING	2
1	152995	FRAME	1	9	230336	BEARING-BALL, THRUST	2
2	93166	KEEPER	4	10	96087	SHAFT-VERTICAL ROLLER	2
3	15514	CAPSCREW-1/2 UNF X 1 1/4	4	11	96086	SHAFT-HORIZONTAL ROLLER	2
3	15158	LOCKWASHER-1/2	4	11	92720	WASHER	4
4	15511	CAPSCREW-1/2 UNF X 1	4	12	15598	CAPSCREW-1 NF X 2 1/2	4
4	15158	LOCKWASHER-1/2	4	12	15166	LOCKWASHER-1	4
5	16001	FITTING-LUBE	8	13	93878	SHIM-.134	AR
6	36206 A	ROLLER-VERTICAL	2	14	143292	BRACKET	2
6	2570	BUSHING	2	15	.....	ROD-TIE, PAGE B1 REF. 2	1
7	33394	WASHER	2	15	.....	COTTER-3/8 X 3, PAGE B1 REF. 2	2
8	92212 A	ROLLER	2	16	173607	SPACER	2

HYSTER COMPANY
PORTLAND, OREGON

FREE SPOOL HANDLING GEAR

FOR D5 AND D6 TRACTORS

See Page 64



KEY

A-FOR D5 SERIAL NO. 81H1-84H1 & UP AND 93J1-96J1 & UP.

B-FOR D6 SERIAL NO. 8U1 & UP, 9U1 & UP, 37A1 & UP AND 44A1 & UP.

C-FOR D6 SERIAL NO. 10K1 & UP, 74A1 & UP, 76A1 & UP AND 99J1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.			REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.		
			A	B	C				A	B	C
1	151588	CLUTCH-DENTAL	1	1	1	19	123419	PIN	..	..	1
2	151580	SHIFTER <i>Cast No. 123433</i>	1	1	1	20	15244	COTTER-3/16 X 1 1/2	2	2	2
3	151581	SHAFT-FREE SPOOL SHIFTER	1	1	1	21	159487	BRACKET-HANDLEVER	1	..	..
4	151583	BALL STUD	1	1	1	21	96750 W	BRACKET-HANDLEVER	..	1	..
4	15906	LOCKWASHER-5/8	1	1	1	21	* 123416	BRACKET-HANDLEVER	..	..	1
5	.....	CAPSCREW-PAGE B1 REF. 28	2	2	2	21	□ 155245	BRACKET-HANDLEVER	..	..	1
5	.....	LOCKWASHER-PG. B1 REF. 28	2	2	2	21	# 145434	BRACKET-HANDLEVER	..	..	1
6	.....	COVER-TRANSMISSION, PAGE B1 REF. 29, 19	1	1	1	22	159490	CRANK	1	..	..
7	6348	BALL-DETENT	1	1	1	22	169609	CRANK	..	1	..
8	96375	SPRING-DETENT BALL	1	1	1	22	169608	CRANK	..	..	1
9	46578	PLUG-DRILLED HEAD	1	1	1	23	15244	COTTER-3/16 X 1 1/2	1	..	..
9	.....	LOCKWIRE <i>07355 18ga X 12</i>	1	1	1	23	18469	CPSCR.-1/4 UNF X 1 1/2 G5	..	1	1
10	151584	CRANKSHAFT	1	1	1	23	15154	LOCKWASHER-1/4	..	1	1
11	92907 A	CRANK	1	1	1	23	15004	NUT-1/4 UNF	..	1	1
11	15547	CPSCR.-1/2 UNC X 1 1/2	1	1	1	24	169605	HANDLEVER-FUR 8U1 AND UP	..	1	1
11	15158	LOCKWASHER-1/2	1	1	1	24	159494	HANDLEVER	1	..	..
12	153	PIN-RUD END	2	2	2	24	169603	HANDLEVER-FUR 37A1 AND UP	..	1	..
12	15223	COTTER-1/8 X 1	2	2	2	24	.....	AND 44A1 AND UP	..	1	..
13	96062	SLEEVE-ROOT	1	1	1	25	16828	CPSCR.-3/8 UNC X 1 1/4 G5	2	..	..
14	127045	CLAMP-HOSE	1	1	1	25	* 16805	CAPSCREW-3/8 UNC X 1 G5	..	3	2
15	166857	CLAMP-HOSE	1	1	1	25	#□ 16805	CAPSCREW-3/8 UNC X 1 G5	..	..	3
16	159496	LINK	1	..	..	25	* 15156	LOCKWASHER-3/8	2	3	2
16	96756 W	LINK	..	1	..	25	#□ 15156	LOCKWASHER-3/8	..	..	3
16	123414	LINK-SHORT	..	..	1	*LAST USED ON D6 TRACTOR SERIAL NO. 74A1751 AND 76A2891. □FIRST USED ON D6 TRACTOR SERIAL NO. 74A1752 AND 99J1. #FIRST USED ON D6 TRACTOR SERIAL NO. 76A2892 AND 10K1.					
16	93877	TURN BUCKLE	..	..	1						
16	123425	LINK-LUNG	..	..	1						
17	15028	NUT-JAM, 1/2 UNF	1	1	1						
18	152	RUD END	1	1	..						
19	159493	PIN	1	..	..						
19	31671	PIN	..	1	..						

HYSTER COMPANY
PORTLAND, OREGON

Pressure Filter Conversion

G3

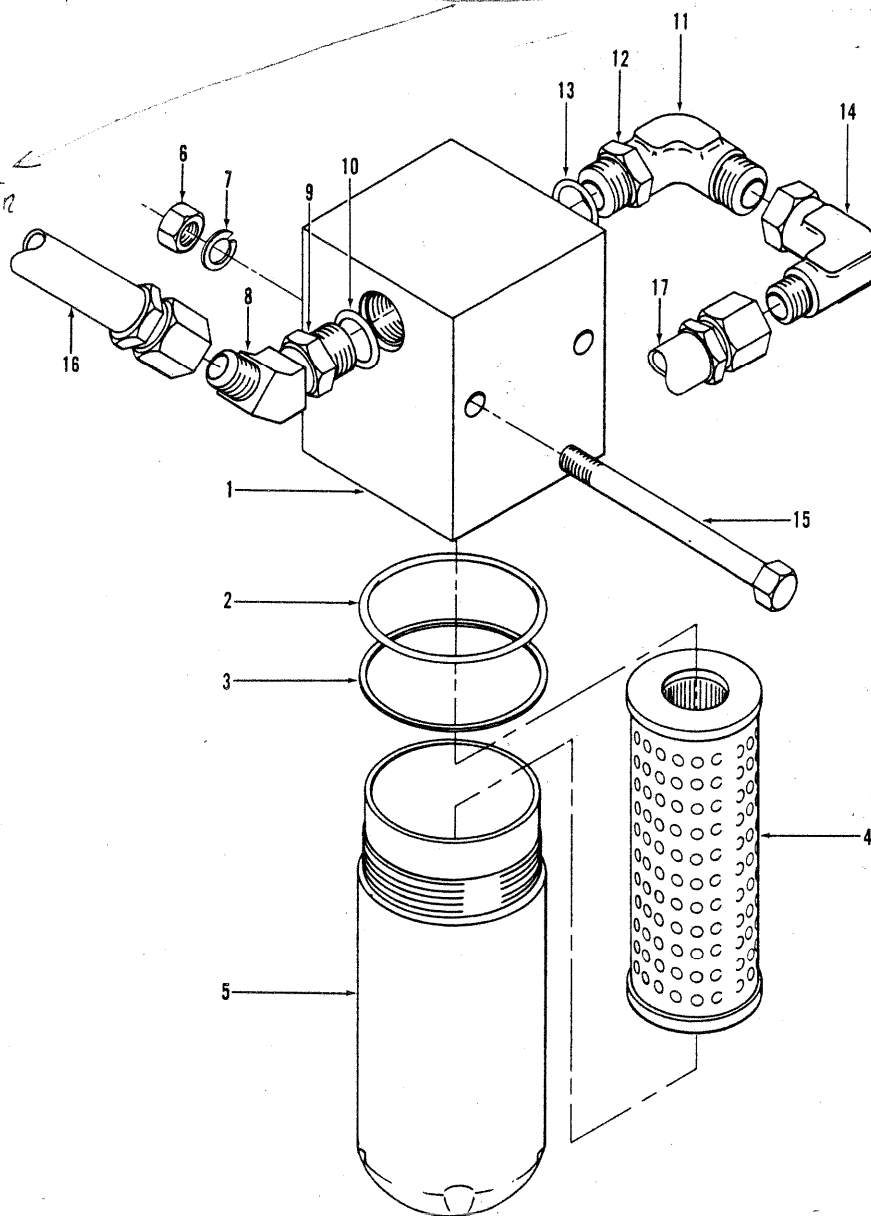
GRAM AO-2-19

OIL FILTER

EFF. S/N C82P 3914

FIRST USED ON SERIAL NO. C82P-2737 AND C82S-1550

For Conversion Of Earlier
Units See AO-2-15



KEY

A-FOR D6 TRACTOR SERIAL NO. 74A1 & UP, 76A1 & UP, 99J1 & UP, 10K1 & UP.

B-FOR D5 TRACTOR SERIAL NO. 95J1 & UP, 96A1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
1	147461	FILTER-HYDRAULIC	1	1
1	149295	HEAD	1	1
1	.....	VALVE-RELIEF	1	1
2	149297	O-RING	1	1
3	149298	RING-BACK-UP	1	1
4	147463	ELEMENT	1	1
5	149296	CASE	1	1
6	15057	NUT-7/16 UNC	2	2
7	15656	LOCKWASHER-7/16	2	2
8	* 164642	ELBOW-45 DEGREE	1	..
8	□ 164642	ELBOW-45 DEGREE	1	1
9	16589	LOCKNUT	1	1
10	16487	O-RING	1	1
11	201776	ELBOW	1	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
12	16589	LOCKNUT	1	1
13	16487	O-RING	1	1
14	□ 83857	ELBOW-SWIVEL	1	1
15	* 18578	CAPSCREW-7/16 UNC X 5 G5	2	2
15	239855	CAPSCREW-7/16 UNC X 4 1/2 G5	2	..
16	165489	HOSE 239985	1	..
16	183592	HOSE	..	1
16	□ 198351	HOSE	1	1
17	133092	HOSE	1	..
17	183592	HOSE	..	1
17	□ 198351	HOSE	1	1

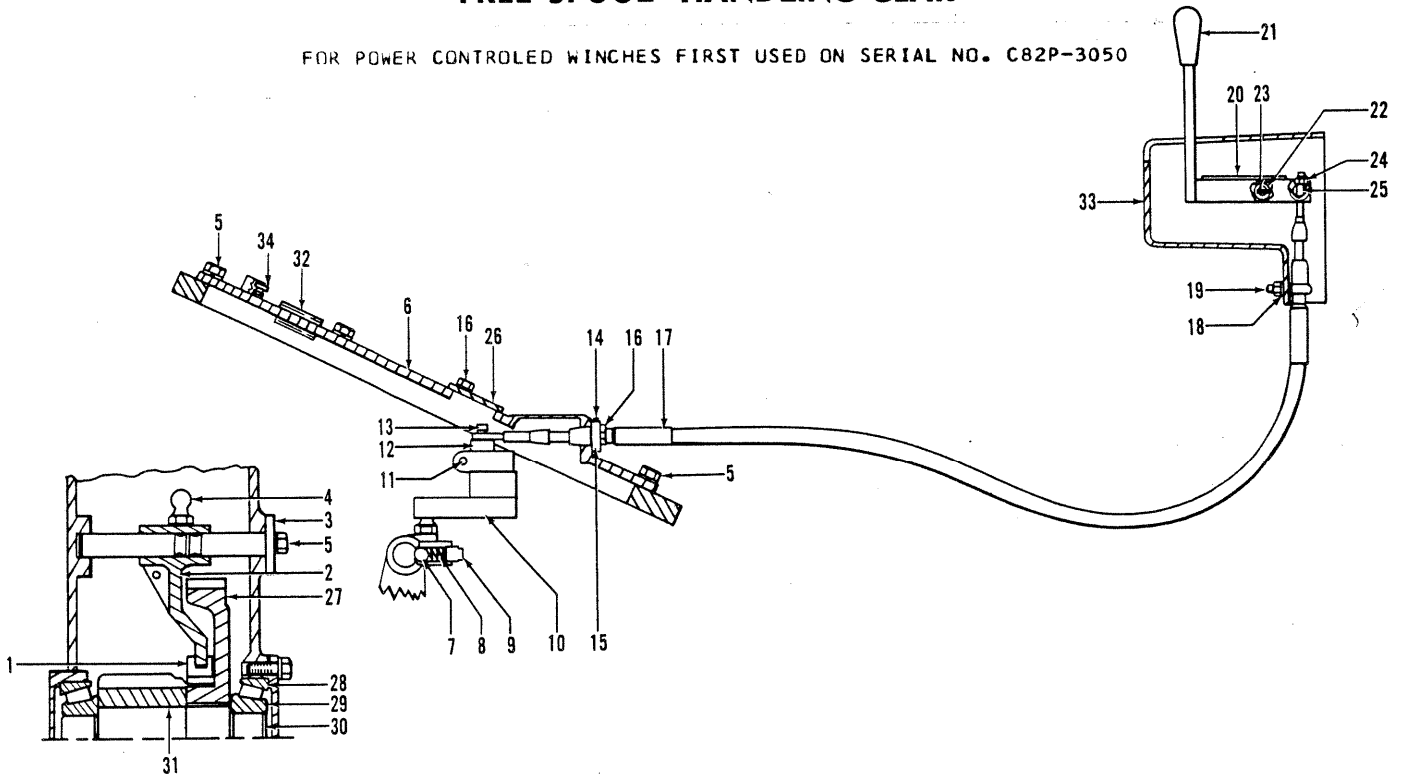
*LAST USED ON SERIAL NO. C82P-2742.

□FIRST USED ON SERIAL NO. C82P-3052.

HYSTER COMPANY
PORTLAND, OREGON

FREE SPOOL HANDLING GEAR

FOR POWER CONTROLLED WINCHES FIRST USED ON SERIAL NO. C82P-3050



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	151588	CLUTCH-DENTAL	1
2	151580	SHIFTER	1
3	151581	SHAFT-FREE SPOOL SHIFTER	1
4	151583	BALL STUD	1
4	15906	LOCKWASHER-5/8	1
5	178403	CAPSCREW-1/2 UNC X 1 G5	10
5	15158	LOCKWASHER-1/2	10
6	203233	COVER-TRANSMISSION	1
6	95958	GASKET	1
7	6348	BALL-DETENT	1
8	96375	SPRING-DETENT BALL	1
9	46578	PLUG-DRILLED HEAD	1
9	.....	LOCKWIRE	1
10	151584	CRANKSHAFT	1
11	18588	CAPSCREW-1/2 UNC X 1 1/2 G5	1
11	15158	LOCKWASHER-1/2	1
12	203239	CRANK	1
13	85749	SCREW-SHOULDER	1
14	62499	PIN-ROLL	1
15	196034	BRACKET-CABLE	1
16	16829	CAPSCREW-1/2 UNC X 1 G5	3
16	15158	LOCKWASHER-1/2	3

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
17	203248	CABLE-PUSH PULL, FREESPOOL	1
18	196130	SPACER	2
19	196129	U-BOLT	1
19	15155	LOCKWASHER-5/16	1
20	203240	LEVER	1
21	190481 34389	KNOB	1
22	196132	SPACER	1
23	15223	COTTER-1/8 X 1	1
24	15106	LOCKNUT-1/4 UNF	1
25	196128	PIN	1
26	151589	PLATE	1
26	151646	GASKET	1
27	96046	GEAR-INTER., STD. & SLO SPEED	1
27	96747	GEAR-INTER., LO SPEED	1
28	30059	BEARING CUP	2
29	30058	BEARING CONE	2
30	96042	SHAFT-INTERMEDIATE	1
31	96043 A	GEAR	1
32	15319	FITTING	1
33	.....	HOUSING-SEE PAGE F11	1
34	21420	BREATHER	1

Section Q

NUMERICAL
INDEX

USE HYSTER APPROVED PARTS... *it pays*

NUMERICAL INDEX

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152	G2	18	15164	B3	7	16541	F4	49	21014	D3	17	77129 W	E3	1
153	G2	12	15166	B3	4	16560	F12	16	21420	B2	21	77187 A	E2	16
159	E1	5	15201	D5	4	16562	F4	20	27187	F12	16	77188	E2	3
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2570	G1	6	15212	F10	15	16586	F6	6	27936	E1	15	79389	D1	4
6036	D1	13	15213	F14	9	16587	F12	16	30058	D4	3	79394 W	E3	20
6037	D1	14	15223	E1	5	16588	F2	43	30059	D4	3	79416	E2	18
6348	E1	7	15226	E1	10	16589	F6	32	30080	D4	3	79417	E2	17
6607	D6	1	15234	F12	7	16594	E3	17	30712	D7	2	79418	E2	17
9554	D1	6	15240	B4	3	16597	B2	12	31671	G2	19	79972	D4	14
9563	D1	6	15244	G2	23	16634	F14	2	33394	G1	7	83857	F2	42
12430	D5	4	15259	B4	3	16645	G1	3	33681	E1	12	85749	G4	13
12821	F1	14	15272	B2	2	16805	B6	4	33682	E1	11	86229	F2	65
12838	F6	46	15273	B2	5	16807	E2	15	33717	E1	8	86976	F7	7
12897	F9	8	15274	B3	5	16813	F15	30	35135	G1	8	87656	D5	4
12915	D5	6	15302	F2	57	16816	F15	13	35503	B2	7	89009 W	D3	16
12916	D1	1	15303	B2	8	16817	F9	20	35573	D1	8	89022	F2	71
14349	F2	47	15306	F14	15	16820	B6	5	35680	B4	1	89023	F2	69
14500	F1	12	15308	B2	10	16828	F2	38	36206 A	G1	6	89025	F2	66
14538	F6	48	15316	B2	6	16829	B2	12	37562	E3	2	89027	D3	18
14598	F6	1	15319	B2	20	16830	B2	14	39376	F8	27	89029	D4	3
14604	F6	26	15320	B2	9	16909	F2	47	39377	F2	61	89030	D4	4
14668	F4	40	15509	B5	2	16915	B3	4	43302	F12	11	89031	D4	1
14712	F9	27	15511	G1	4	16982	F2	60	43303	F15	21	89033	D4	6
14721	D7	4	15514	G1	3	16989	F2	53	44313	D5	11	89035	B4	3
14723	F6	10	15525	B5	8	17039	F12	17	44316	D2	9	89045	F12	12
14758	F2	35	15527	E1	2	17040	F12	19	44547	D6	3	89047	F12	13
14761	F2	52	15529	F9		17141	E3	4	44551	E1	13	89051	F1	6
14763	F2	39	15532	B5	5	17149	B5	7	45303	F14	13	89058	F1	3
15001	F2	34	15547	G2	11	17309	F4	42	46187	D5	12	89059	F2	32
15004	F13	5	15553	F9	26	17315	F1	10	46578	G2	9	89060	F2	33
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