

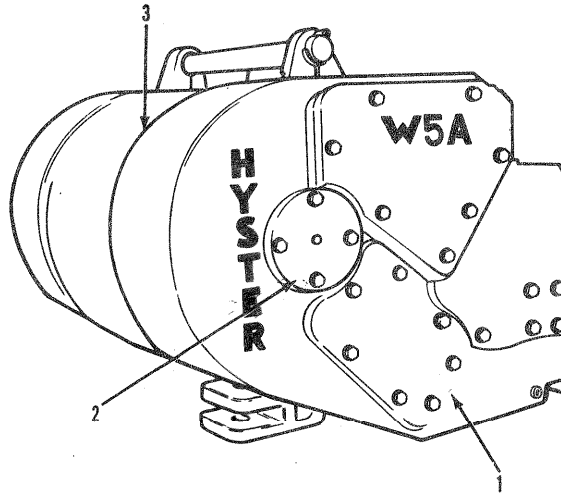
PARTS MANUAL

**TOWING WINCH
W5A**

**CUSTOMER
EDITION**

INTENTIONALLY LEFT BLANK

ILLUSTRATED INDEX



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3	HYDRAULIC SYSTEM.....	1D02
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USE HYSTER APPROVED PARTS... *it pays*

ALPHABETICAL INDEX

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USE HYSTER APPROVED PARTS... *it pays*

UNIT IDENTIFICATION

HYSTER WINCH SERIAL NUMBER NAMEPLATE DATA FOR TRACTOR AND SKIDDER MOUNTINGS

Example: W5A P 4 B 1555 A31
 (1) (2) (3) (4) (5) (6)
 Winch Model Drive Gear Ratio Options Sequence No. Tractor

(1) Winch Models

W5A

(2) Type Drive

P - Power Controlled

X - Direct Drive (Gear Drive)

(3) Gear Ratios

* Indicates
 standard gear
 ratio for each
 mounting.

Code	W5A
1	24.4
2	25.2
3	28.4
4	32.3
5	39.9
6	12.2

*W5A gear ratio - applies to winch and
 auxiliary gear drive if required.*

(4) Internal Options

F - Freespool

N - Non-Freespool

A - Power forward only with freespool (PFO)

B - Power forward and reverse with freespool (PFR)

(5) Sequence Number - 4 Digit number

(6) Tractor or Skidder - Make, Model and starting tractor serial number where applicable

WINCH MODEL	CODE	TRACTOR MAKE, MODEL AND STARTING TRACTOR S/N WHERE APPLICABLE										
		A	C	D	E	F	G	H	K	R	T	M
		FIAT - ALLIS	CAT	TIMBER- JACK	JOHN DEERE	FMC	TEREX	IHC	KOMATSU	CASE	CAN- CAR	MF
W5A	31	8, FL9 *4	D3, 931 *4	550 *1		CA 210 *2		175 *4	D45 *5	1150B *4 (4)	C8B *3	D400C *4
	32	10B *4 FL10B	D4PS *2 (5)									
	33		528 *6									
	34											
	35											

(4) High Mounting With Gear Box

(5) D4PS S/N 83J3553 up, 47H1786 up
 59J2553 up, 7R926 up

28X, 51X, 52X, 69X, 71X, 77W.

USE HYSTER APPROVED PARTS... it pays

APPLICATION DATA

APPLICATION

MAKE	MODEL	SERIAL NUMBERS	* WINCH PTO ROTATION
CAN-CAR	C8B	ALL SERIAL NUMBERS	CCW
CASE	1150B	S/N A121P1501-2068 EFF. W5AP2069	CCW CW
CATERPILLAR	D3 & 931	ALL SERIAL NUMBERS	CCW
CATERPILLAR	D4 P. S.	47H 1786, 59J2553 83J 3553, 7R926 28X, 51X, 52X, 69X, 71X, 77W.	CCW
CATERPILLAR	528	ALL SERIAL NUMBERS	CCW
ALLIS CHALMERS	HD-6	ALL SERIAL NUMBERS	CW
FIAT-ALLIS	8B, FL-9	ALL SERIAL NUMBERS	CW
FIAT-ALLIS	10B, FL10B	ALL SERIAL NUMBERS	CW
FMC	CA 210	ALL SERIAL NUMBERS	CCW
INTERNATIONAL	175	ALL SERIAL NUMBERS	CCW
KOMATSU	D45A-1	ALL SERIAL NUMBERS	CW
MASSEY FERGUSON	D400C	ALL SERIAL NUMBERS	CW
TIMBERJACK	550	ALL SERIAL NUMBERS	CCW

* AS VIEWED FROM THE REAR OF THE TRACTOR
(STANDING BEHIND WINCH LOOKING FORWARD)

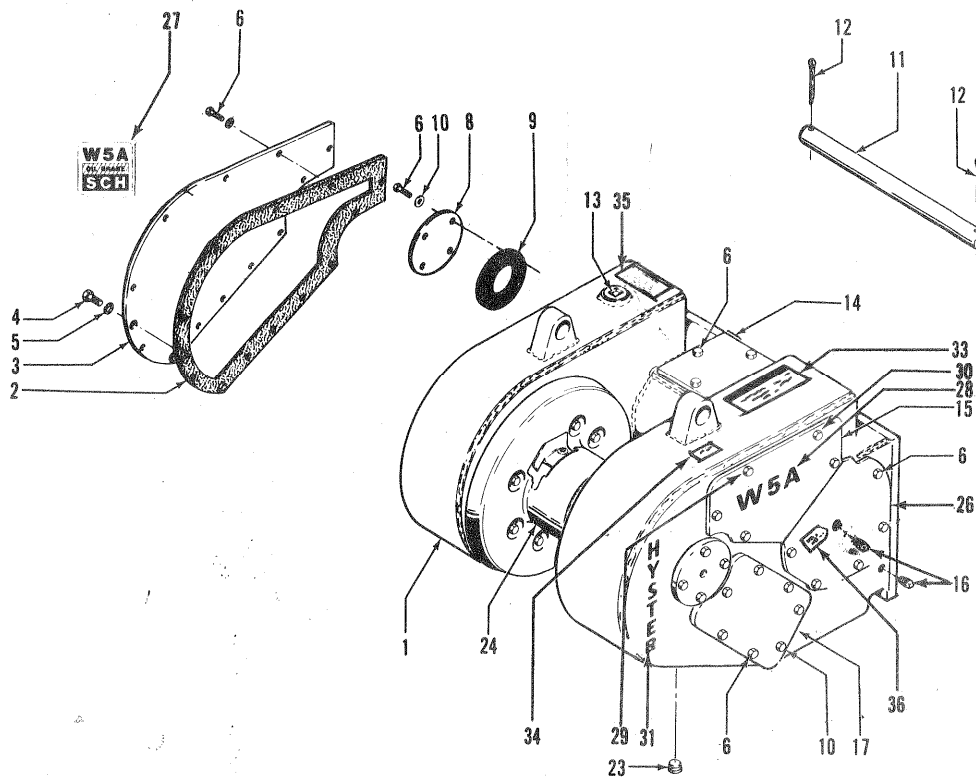
USE HYSTER APPROVED PARTS... it pays

FRAMES, COVERS AND MOUNTING PARTS

FRAME AND COVERS.....	1B03
MOUNTING PARTS-ALLIS CHALMERS HD-6.....	1B04
MOUNTING PARTS-CAN CAR C8B.....	1B08
MOUNTING PARTS-CAT D3.....	1B05
MOUNTING PARTS-CAT D4D & D4E.....	1B09
MOUNTING PARTS-FLAT-ALLIS 10C & FL-10C.....	1B07
MOUNTING PARTS-FIAT-ALLIS 10B & FL-10B.....	1B07
MOUNTING PARTS-FIAT-ALLIS 8-8B & FL-9.....	1B10
MOUNTING PARTS-KOMATSU D45.....	1B06
MOUNTING PARTS-MASSEY FERGUSON D400C.....	1B11

USE HYSTER APPROVED PARTS... *it pays*

FRAME AND COVERS



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	.....	FRAME-WINCH	1
2	+ 219198	GASKET	1
3	219247	COVER	1
3	* 278716	COVER	1
4	219249	CAPSCREW-SEALING 3/4 UNC	2
5	15162	WASHER-3/4	2
6	178403	CAPSCREW-SEALING 1/2 UNC	31
6	* 178403	CAPSCREW-HT SEALING	2
8	219191	COVER-SECTION	1
9	+ 219195	GASKET	1
10	222091	WASHER-7/16	35
11	93927	ROD-TIE	1
12	15256	COTTER-1/4 X 2 1/4	2
13	300629	PLUG	1
13	21420	PLUG	1
14	219192	COVER	1
14	+ 219196	GASKET	1
15	257794	COVER VALVE	1
15	+ 257796	GASKET	1
16	15303	PLUG	2
17	219188	COVER-FILTER	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
17	+* 219194	GASKET	1
23	15316	PLUG-3/4	1
24	.....	DRUM & SHAFT SEE 1C12	1
26	* 278717	COVER	1
26	253934	COVER	1
26	+ 219193	GASKET	1
27	% 275166	DECAL-MODEL LH	1
28	% 275170	DECAL-MODEL RH	1
29	178402	CAPSCREW-HT SEALING	6
30	15176	WASHER-7/16	4
31	% 230549	DECAL-VERTICAL	2
33	% 267498	DECAL-LUBE INSTR	1
34	% 300647	DECAL-GEAR BOX F/A ONLY	1
35	% 275505	DECAL-CAUTION	1
36	% 261155	DECAL-OIL LEVEL	1

*FOR CATERPILLAR D4 PS ONLY FIRST USED ON
S/N A121-2066

+INCLUDED IN GASKET SET 296871

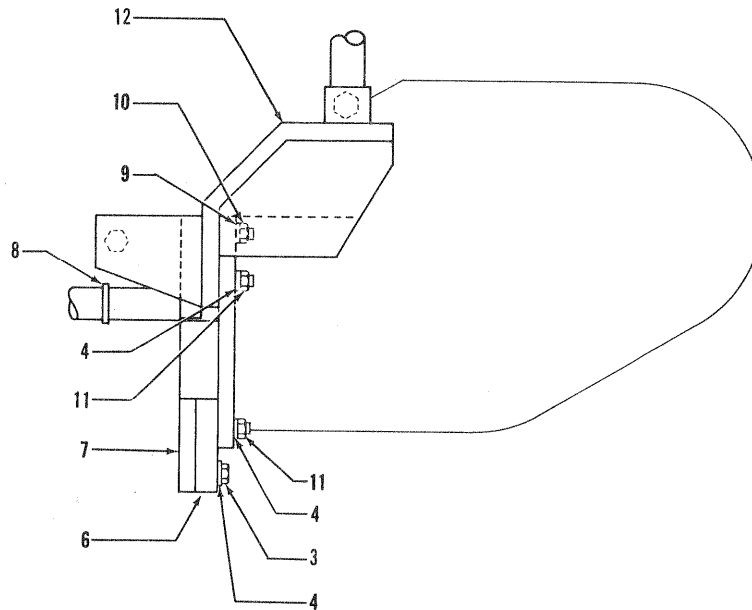
%INCLUDED IN DECAL KIT 314844

HYSTER COMPANY

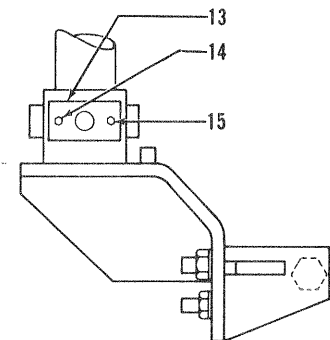
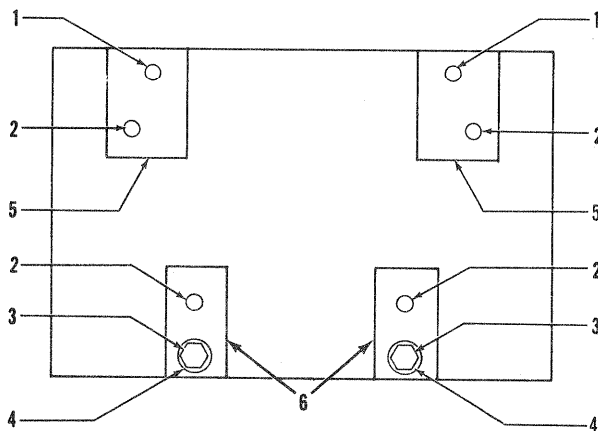
PARTS OPERATIONS
Danville, Illinois 61832

MOUNTING PARTS

FOR ALLIS CHALMERS MODEL HD-6



PARTS SERVICE GRAM	
Item	Gram
1,2	A2-A-1



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	2	3	4
1	# 253939	STUD-1 UN X 5 1/8	2
2	# 253940	STUD-7/8 UNF X 5	4
3	18645	CAPSCREW-7/8 UNC X 2 1/2	2
4	15164	WASHER-7/8	6
5	223247	SPACER	2
6	253936	SPACER	2
7	* 228770	SPACER	2
8	39743	O-RING	1
9	15166	WASHER-1	2
10	291577	NUT-1 UNC	2

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	2	3	4
11	221719	NUT-7/8 UNF	4
12	251727	BRACKET-ROPS RH	1
12	250392	BRACKET-ROPS LH	1
13	251739	PIN-WELD	1
14	16328	CAPSCREW-3/8 UNC X 1 1/4	10
15	15156	WASHER-3/8	10

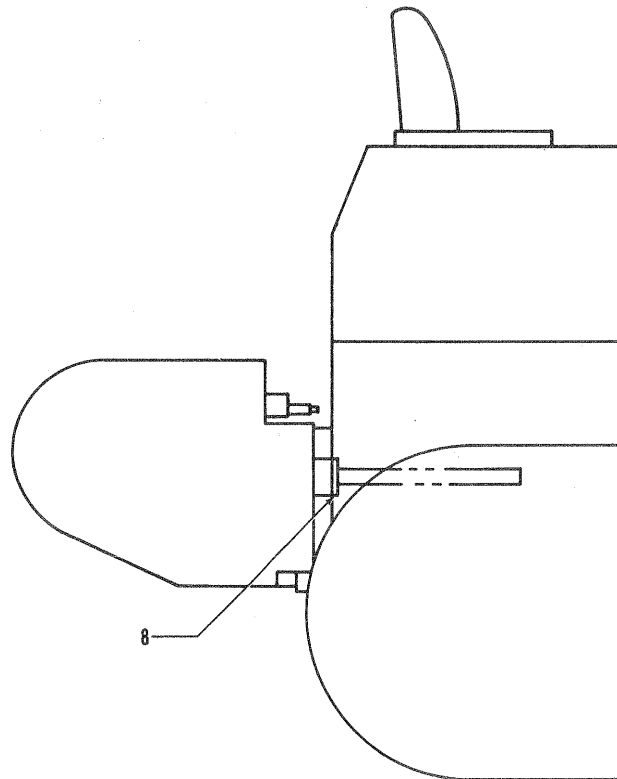
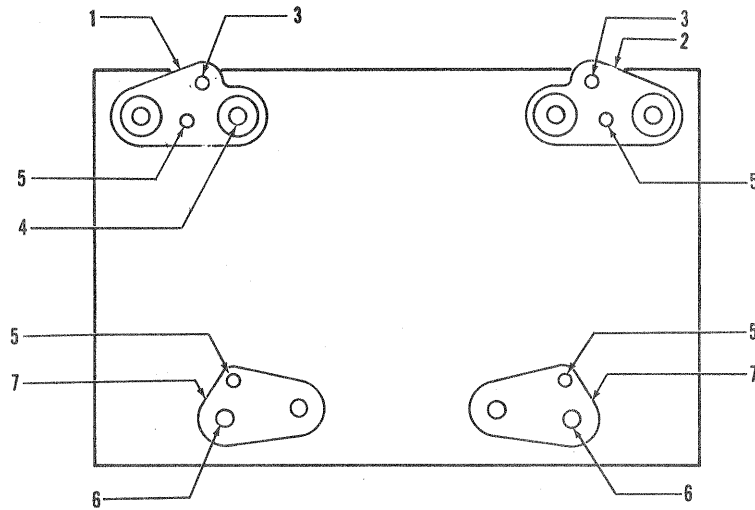
*FOR HD-6 WITH SWINGING DRAWBAR
#REQUIRES LOCTITE KIT #230064

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

MOUNTING PARTS

FOR CATERPILLAR MODEL D-3



PARTS SERVICE GRAM	
Item	Gram
3, 5	A2-A-1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	254925	SPACER-LH	1
2	254928	SPACER-RH	1
3 *	254931	STUD-1 UNF X 4 1/16	2
3	221721	NUT-1 UNF	2
3	15156	WASHER-1	2
4	18663	CAPSCREW-1/8 UNC X 1 3/4	4
5 *	254930	STUD-7/8 UNF X 3 7/8	4

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
5	221719	NUT-7/8 UNF	4
5	15164	WASHER-7/8	4
6	18670	CAPSCREW-1/8 UNC X 2 3/4	4
7	254926	SPACER	2
8	39743	O-RING	1

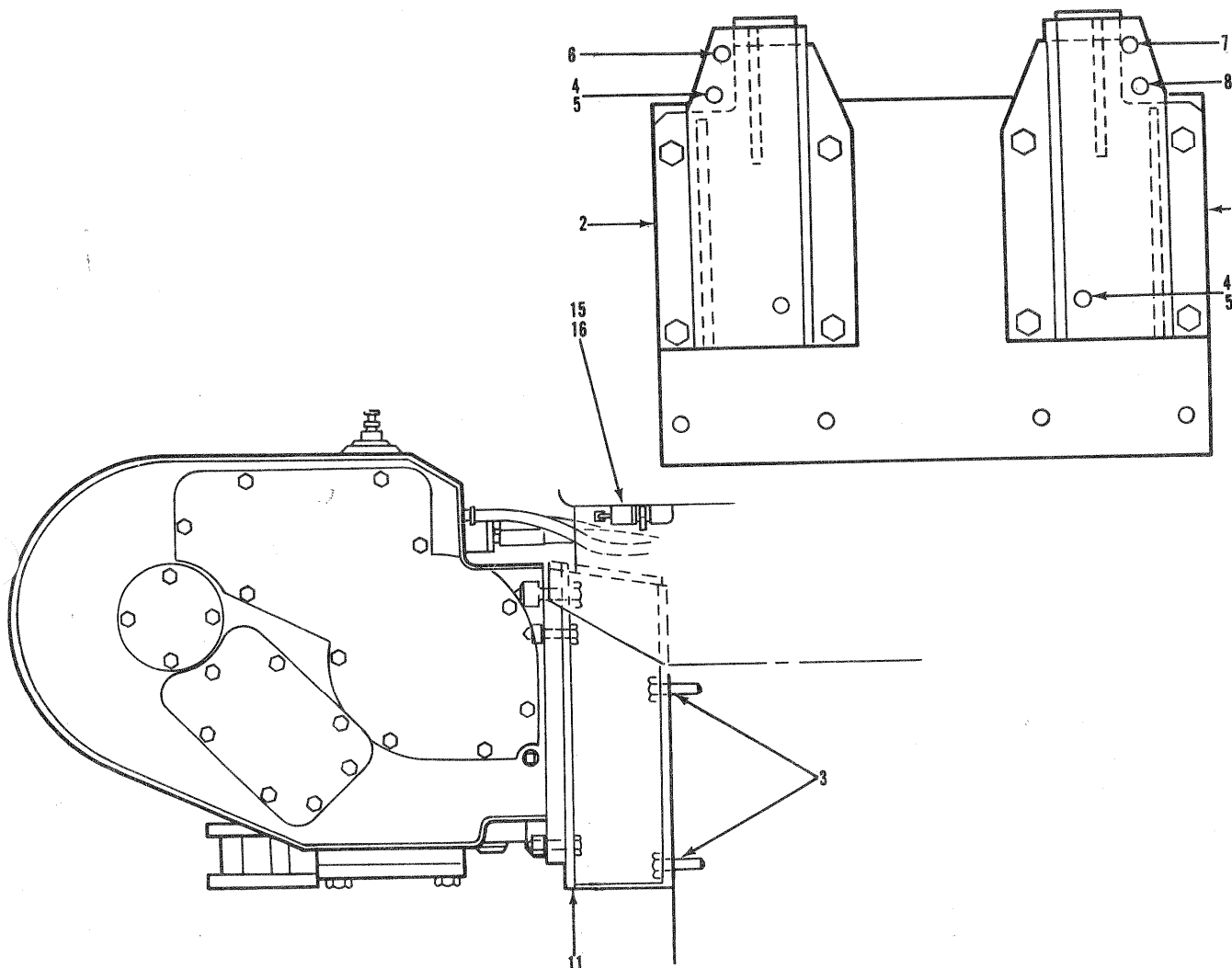
*REQUIRES LOCTITE KIT #230064

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

MOUNTING PARTS

FOR KOMATSU D-45



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	266844	BRACKET-RH	1
2	266845	BRACKET-LH	1
3	* 280980	CAPSCREW-M24 X 3 X 55	8
3	15166	LOCKWASHER	9
4	221678	CAPSCREW 7/8 UNC X 2 3/4	3
5	15164	LOCKWASHER 7/8	3
5	221718	NUT 7/8 UNC	3
6	221694	CAPSCREW 1 UNC X 3	1
6	221720	NUT 1 UNC	1
7	248321	CPSCR 1 1/4 UNC X 2 1/2	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
7	15168	LOCKWASHER 1 1/4	1
8	226451	CPSCR 1 1/8 UNC X 2 1/4	1
8	18404	LOCKWASHER 1 1/8	1
11	.....	DROBOX-SEE 1C04	1
15	16194	DRAIN VALVE	1
16	69815	PIPE-FTG	1

*REQUIRES LOCKTITE KIT 230064

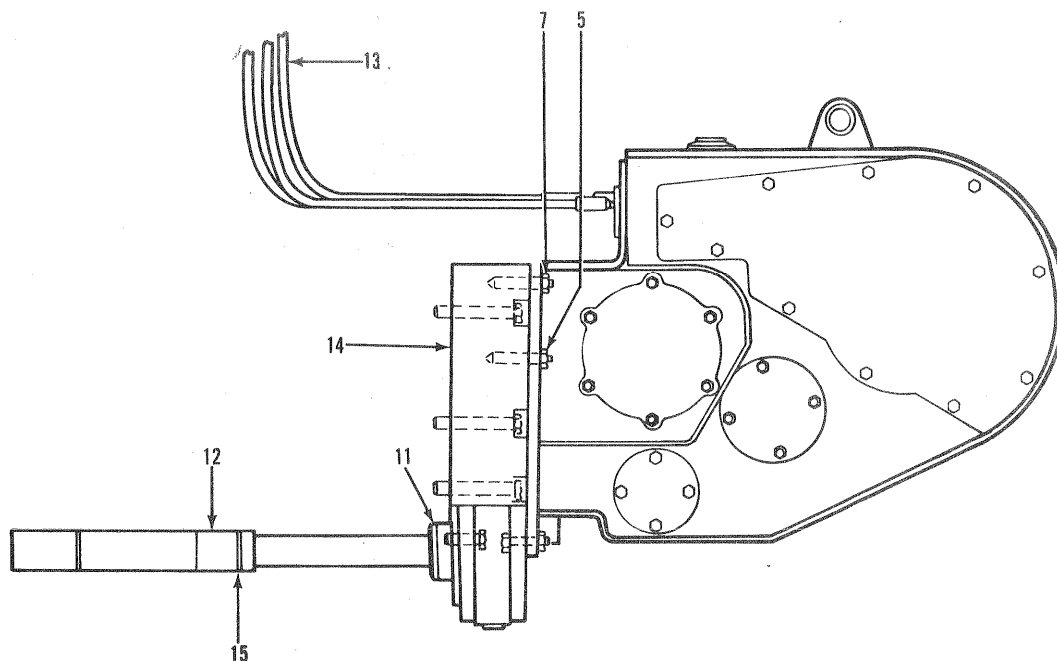
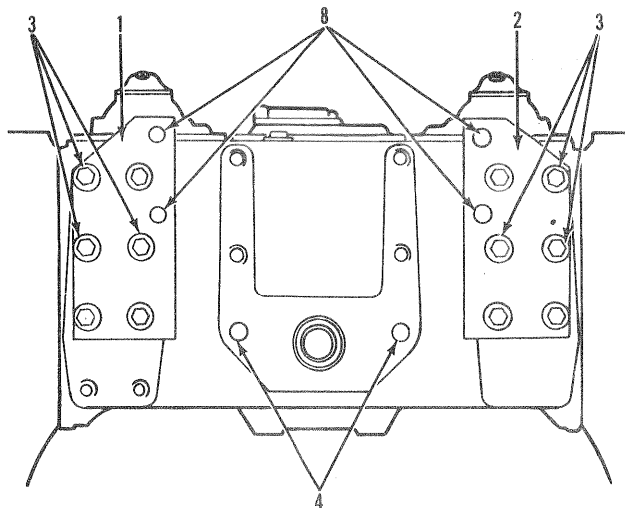
HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

MOUNTING PARTS

FIAT-ALLIS 10B 10C FL-10B & FL-10C

PARTS SERVICE GRAM	
Item	Gram
12	A1-B-9R1



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	280976	SPACER-LH	1
2	280975	SPACER-RH	1
3	226430	CAPSCREW-M24 X 2 X 120	12
3	15166	WASHER-1	12
4	* 252905	STUD	2
5	53157	TORQUE NUT-1 UNF	2
7	291577	NUT-1 UNF	2
7	15166	WASHER-1	2
8	* 253818	STUD-1 UNF X 3 5/8	4
11	15880	O-RING	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
12	* 250482	COUPLING	1
12	+ 295766	COUPLING	1
13	.....	HOSE	1
14	.....	DROPOX-SEE 1C06	1
15	250483	PIN	1
15	250484	RING-SNAP	1

*REQUIRES LOCTITE KIT 230064

+FIRST USED ON S/N A121-2735

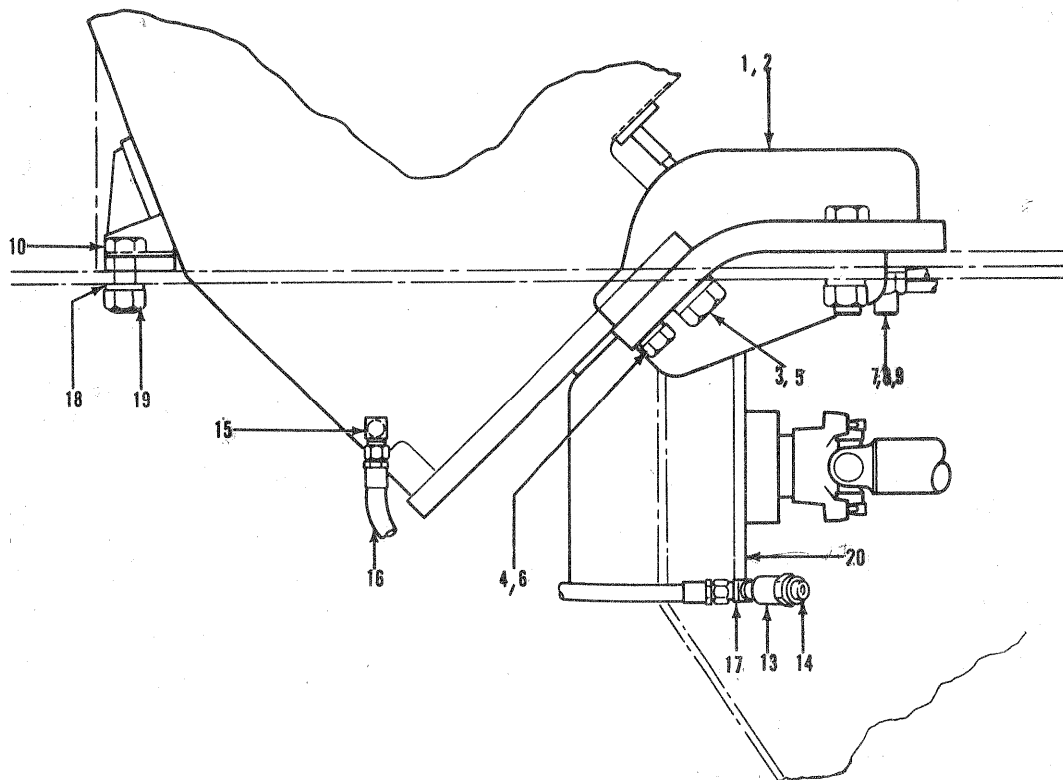
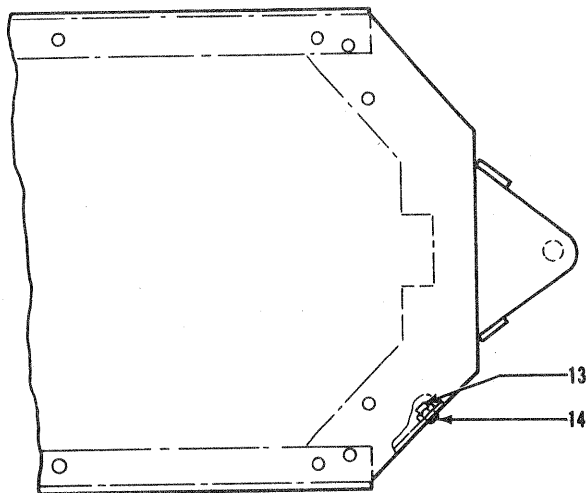
*LAST USED ON S/N A121-2734

HYSTER COMPANY

 PARTS OPERATIONS
 Danville, Illinois 61832

MOUNTING PARTS

CAN-CAR C8B ONLY



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	265416	MOUNT-FRONT RH	1
2	265420	MOUNT-FRONT LH	1
3	271744	CPSCR-1 1/4 UNC X 3	1
3	15168	LOCKWASHER 1 1/4	1
4	262344	CPSCR-1 1/8 UNC X 3 1/4	1
4	18404	LOCKWASHER 1 1/8	1
5	221698	CPSCR-1 UNC X 3 1/2	1
5	127156	LOCKNUT 1 UNC	1
6	221679	CPSCR-7/8 UNC X 3 1/4	1
6	221359	LOCKNUT 7/8 UNC	1
7	221700	CAPSCREW 1 UNC X 4	4

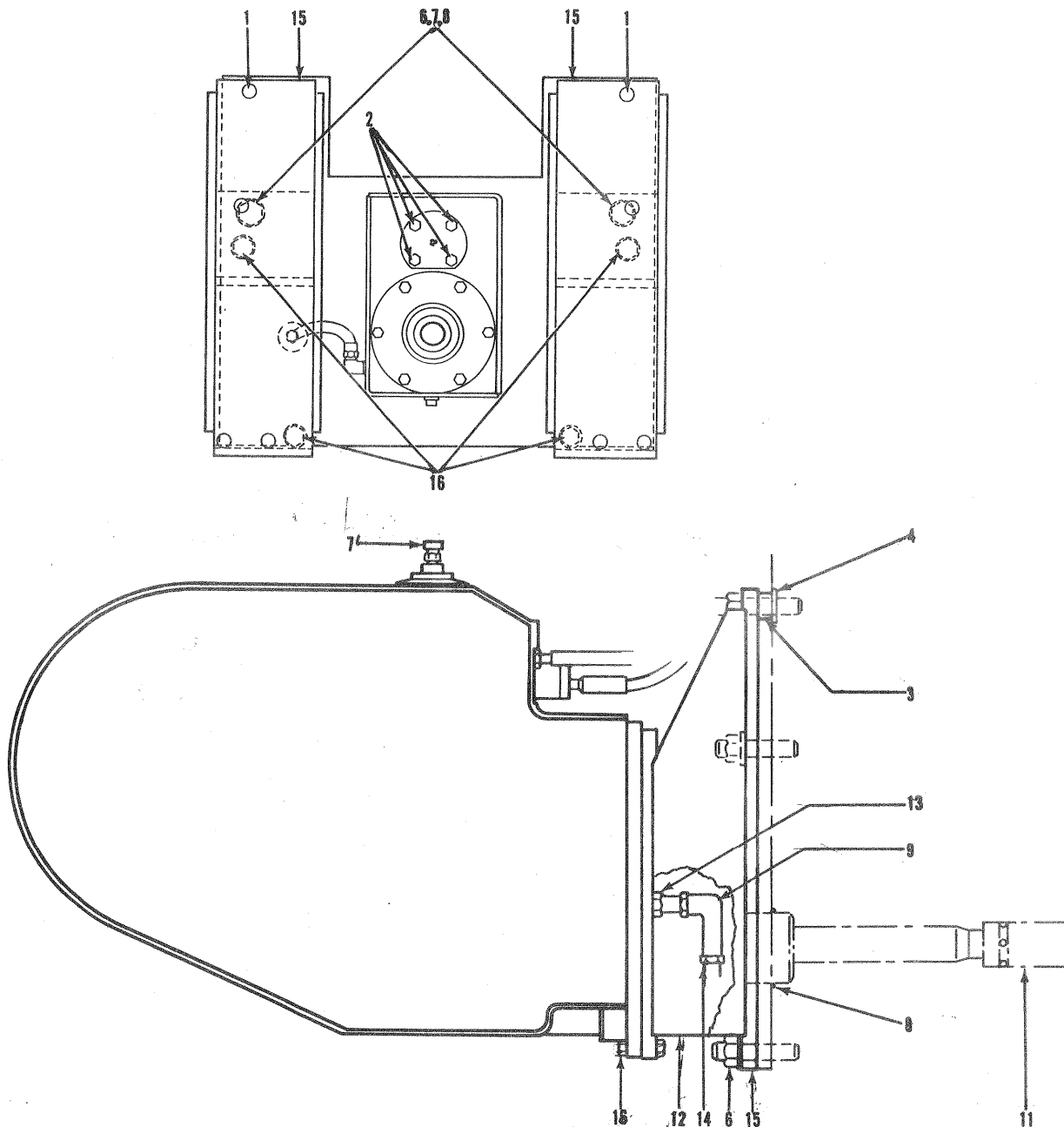
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
8	15106	LOCKWASHER 1	6
9	15006	HEX NUT 1 UNC	6
10	221690	CAPSCREW 1 UNC X 2 1/2	2
13	12828	COUPLING-FITTING	1
14	15962	SOCKET-FITTING	1
15	17306	FITTING	1
16	133943	HOSE	1
17	14550	ELBOW-FITTING	1
18	15166	LOCKWASHER 1	6
19	15066	NUT 1	6
20	.....	DROPBOX-SEE 1C07	1

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

MOUNTING PARTS

FOR CATERPILLAR D4D & D4E



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	230774	STUD-7/8 UNC X 4 3/8	8
2	18000	PLUG	4
3	237979	SPACER	2
4	250833	SHIM	AR
4	250834	SHIM	AR
4	250835	SHIM	AR
6	221719	NUT 7/8 UNF	8
6	15164	WASHER 7/8	8
7	21420	BREATHER	1
8	39679	O-RING	1
9	144577	HOSE	1
11	239215	COUPLING	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
11	9563	PIN	1
11	9554	RING LOCK	1
12	.....	DROPTBOX-SEE 1C05	1
13	14677	FITTING	1
14	69259	FITTING	1
15	278729	BRACKET RH	1
15	278730	BRACKET LH	1
16	18646	CAPSCREW-7/8 UNC X 2 3/4	4
16	15164	WASHER-7/8 UNC	4
16	15064	NUT-7/8 UNC	4
16	18670	CAPSCREW-1 UNC X 2 3/4	2
16	15166	WASHER	2
16	15066	NUT	2

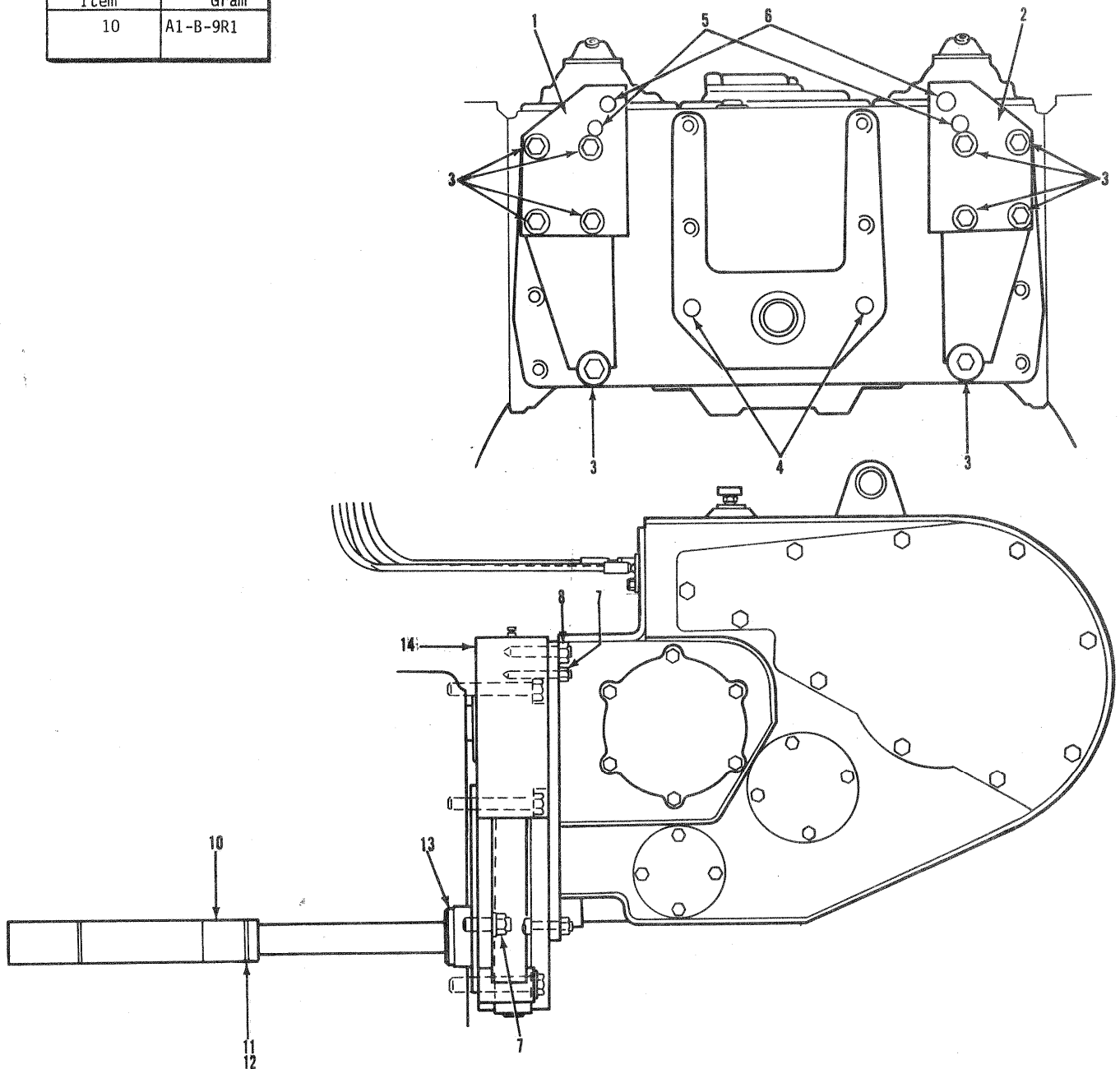
HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

MOUNTING PARTS

FOR FIAT-ALLIS 8 8B & FL-9 ONLY

PARTS SERVICE GRAM	
Item	Gram
10	A1-B-9R1



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	278744	SPACER-LH	1
2	278746	SPACER-RH	1
3	278747	CAPSCREW-M20 X 1.5 X 120	10
3	15164	WASHER-7/8	10
4	278739	STUD-7/8 UNF X 3 3/4	2
5	* 254930	STUD-7/8 UNF X 3 7/8	2
6	* 253818	STUD-1 UNF X 3 5/8	2
7	15014	NUT-7/8 UNF	4
7	15164	WASHER-7/8	4
8	291577	NUT 1 UNF	2
8	15166	LOCKWASHER-1	2

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
10	* 278741	COUPLING	1
10	+ 299004	COUPLING	1
11	250483	PIN	1
12	250484	RING-SNAP	1
13	15880	O-RING	1
14	.....	DROPOX-SEE 1C06	1

*REQUIRES LOCTITE KIT 230064

+FIRST USED ON S/N A121-2735

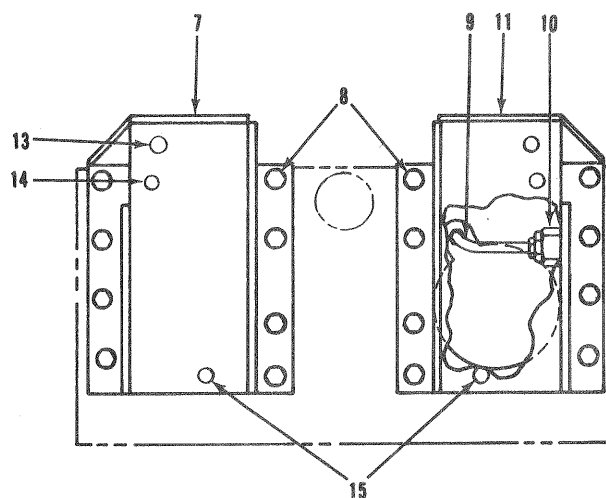
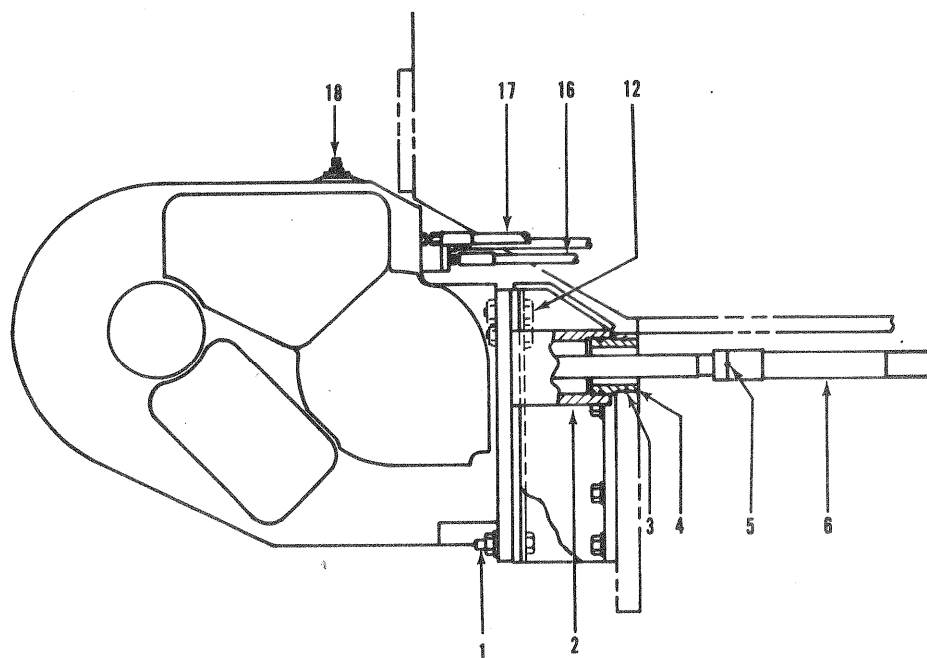
*LAST USED ON S/N A121-2734

HYSTER COMPANY

 PARTS OPERATIONS
 Danville, Illinois 61832

MOUNTING PARTS

MASSY FERGUSON D400C



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	221678	CAPSCREW-7/8 UNC X 3	1	12	221694	CAPSCREW-1 UNC X 3	1
1	221718	NUT-7/8 UNC	1	12	221720	NUT-1 UNC	1
1	15164	LOCKWASHER-7/8	1	12	15166	LOCKWASHER-1	1
2	46629	O-RING	1	13	287520	STUD-1 UNC X 3 3/8	1
3	15881	O-RING	1	13	15166	LOCKWASHER-1	1
4	287518	CARRIER-ADAPTER	1	13	221720	NUT-1 UNC	1
5	250483	PIN	1	14	287521	STUD-7/8 UNC X 3 1/8	1
5	250484	RING-SNAP	1	14	15164	LOCKWASHER-7/8	1
6	250482	PTO-SHAFT	1	14	221718	NUT-7/8 UNC	1
7	287513	BRACRET-LH	1	15	221678	CAPSCREW-7/8 UNC X 3	2
8	287515	CAPSCREW-M18X1 5X50-109	20	15	15164	LOCKWASHER-7/8	2
8	15162	LOCKWASHER-3/4	20	15	221718	NUT-7/8 UNC	2
9	287516	HOSE	2	16	.....	CABLE-SEE 1D14	2
10	287517	THIN NUT-METRIC	2	17	.....	HOSE-SEE 1D14	1
11	287504	BRACKET-RH	1	18	21420	PLUG-BREATHER	1

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

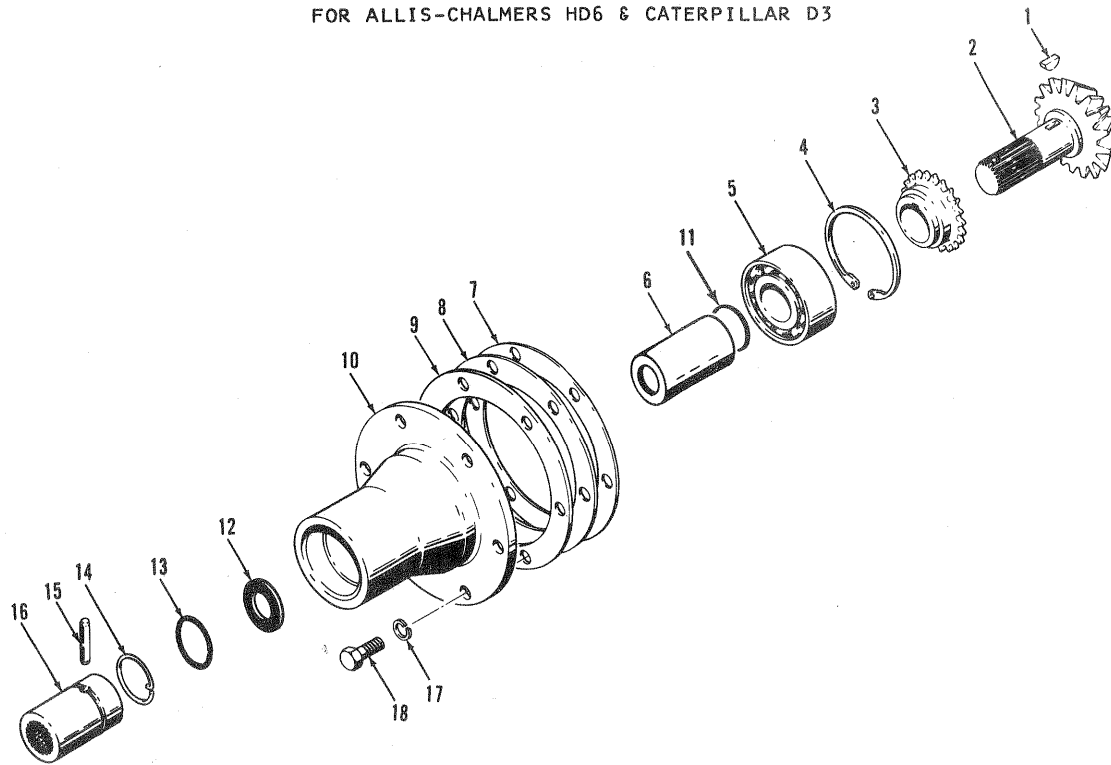
GEAR TRAIN AND SHAFTS

BEVEL GEAR SHAFT.....1C09
BRAKE.....1C11
CLUTCH.....1C10
DRUM DRIVE GEARS AND SHAFT.....1C12
POWER TAKE-OFF.....1C03 1C08
SHIFTER AND INTERMEDIATE GEARS.....1C13

USE HYSTER APPROVED PARTS... *it pays*

POWER TAKE OFF

FOR ALLIS-CHALMERS HD6 & CATERPILLAR D3



KEY

A-FOR TRACTOR MODEL HD-6
B-FOR TRACTOR MODEL D-3

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
1	9033	KEY-5/32 X 5/8 DIA	1	1
2	253938	SHAFT-BEVEL PINION	1	..
2	254929	SHAFT-BEVEL PINION	..	1
3	219176	SPROCKET-DRIVING	1	1
4	67551	RING-SNAP	1	1
5	45308	BEARING-BALL	1	1
6	219116	SLEEVE	1	1
7	219207	SHIM-.007	AR	AR
8	219206	SHIM-.005	AR	AR
9	219208	SHIM-.020	AR	AR

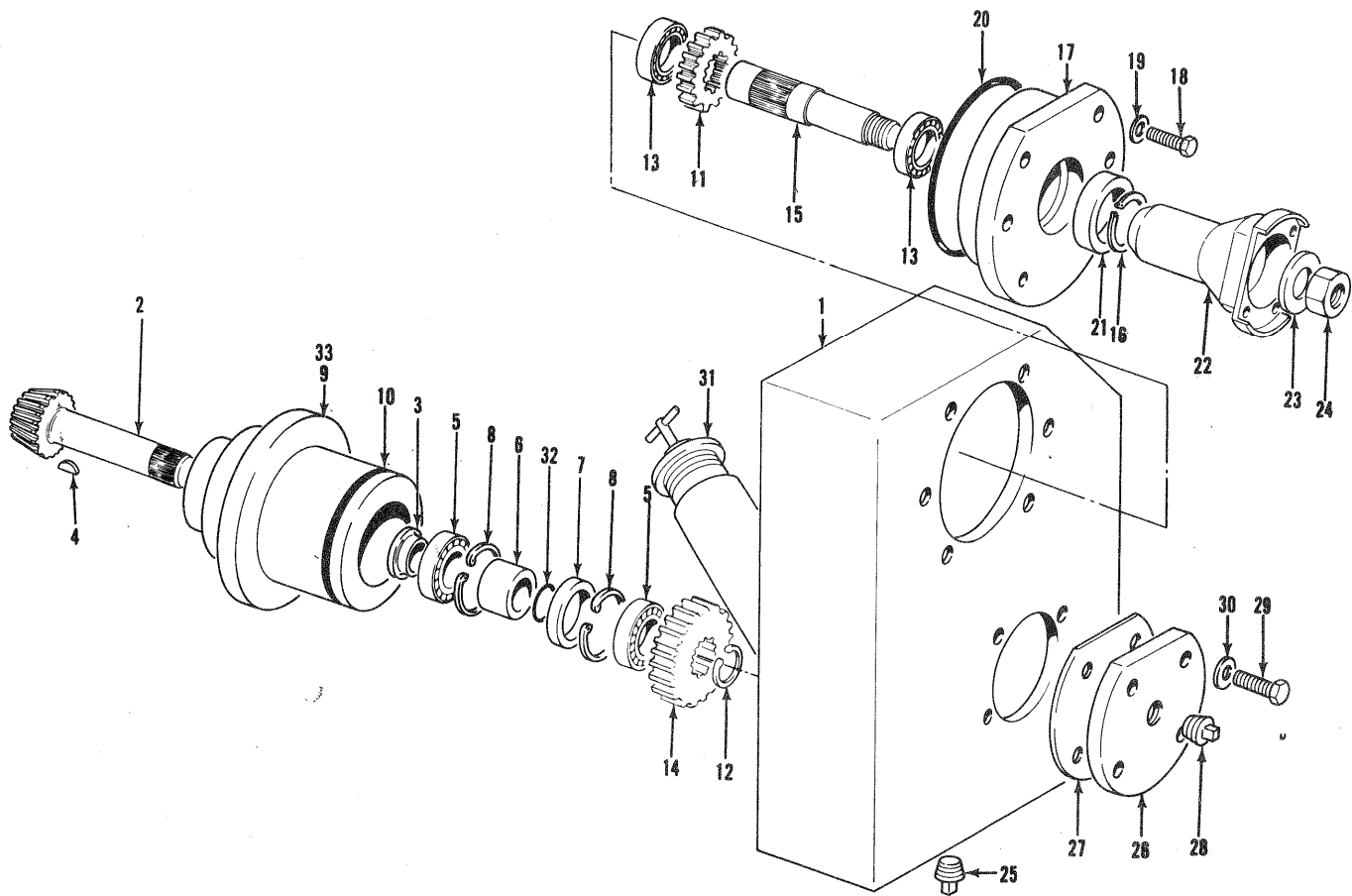
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
10	253937	CARRIER PTO	1	1
11	39358	O-RING	1	1
12	31234	OIL SEAL	1	1
13	58931	RING-SNAP	1	1
14	9554	RING-LOCK	1	..
15	9563	PIN	1	..
16	219128	COUPLER	1	..
17	15158	LOCKWASHER-1/2	6	6
18	178402	CAPSCREW-SEALING	6	6

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

POWER TAKE-OFF

FOR KOMATSU D45



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
	267017	DROPBOX	1
1	267004	HOUSING	1
2	224103	BEVEL PINION SHAFT	1
3	219176	SPROCKET-DRIVING	1
4	9033	KEY-5/32 X 5/8 DIA	1
5	43308	BEARING-BALL	2
6	267007	SEAL SLEEVE	1
7	59395	OIL SEAL	1
8	67551	RING-SNAP	2
9	224114	CARRIER	1
10	39743	O-RING	1
11	224101	GEAR	1
12	58931	RING-SNAP	1
13	43207	BEARING-BALL	2
14	259542	GEAR	1
15	267008	SHAFT	1
16	267005	SPACER	1
17	267009	BEARING-RETAINER	1

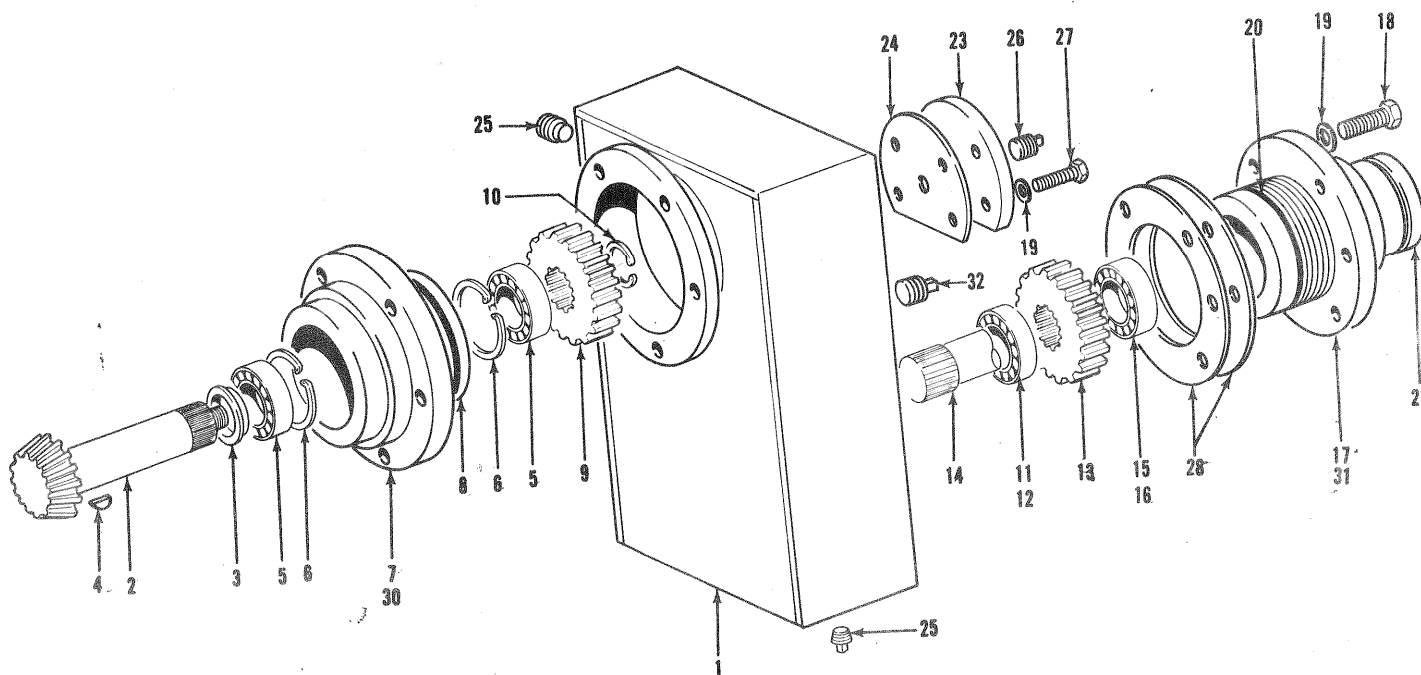
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
18	182209	CAPSCREW-SEALING	6
19	15158	WASHER-1/2	6
20	39747	O-RING	1
21	53825	OIL SEAL	1
22	112334	YOKE	1
23	267006	WASHER	1
24	248320	NUT-3/4 UNF	1
25	15303	FITTING	1
26	260699	COVER	1
27	260700	GASKET	1
28	15306	FITTING	1
29	178403	CAPSCREW-SEALING	4
30	15158	WASHER-1/2	4
31	260714	DIPSTICK	1
32	39381	O-RING	1
33	219206	SHIM-.005	AR
33	219207	SHIM-.007	AR
33	219208	SHIM-.020	AR

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

POWER TAKE-OFF

FOR CATERPILLAR D4D & D4E



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
	278715	DROPBOX	1
1	277498	HOUSING	1
2	224103	BEVEL PINION SHAFT	1
3	219176	SPROCKET-DRIVING	1
4	9033	KEY-5/32 X 5/8 DIA	1
5	43308	BEARING-BALL	2
6	67551	SNAP RING	2
7	224114	CARRIER	1
8	39743	O-RING	1
9	259542	GEAR	1
10	58931	SNAP RING	1
11	230426	BEARING-CUP	1
12	230427	BEARING-CONE	1
13	259541	GEAR	1
14	277499	SHAFT	1
15	30279	BEARING-CONE	1
16	30055	BEARING-CUP	1
17	278712	CARRIER	1

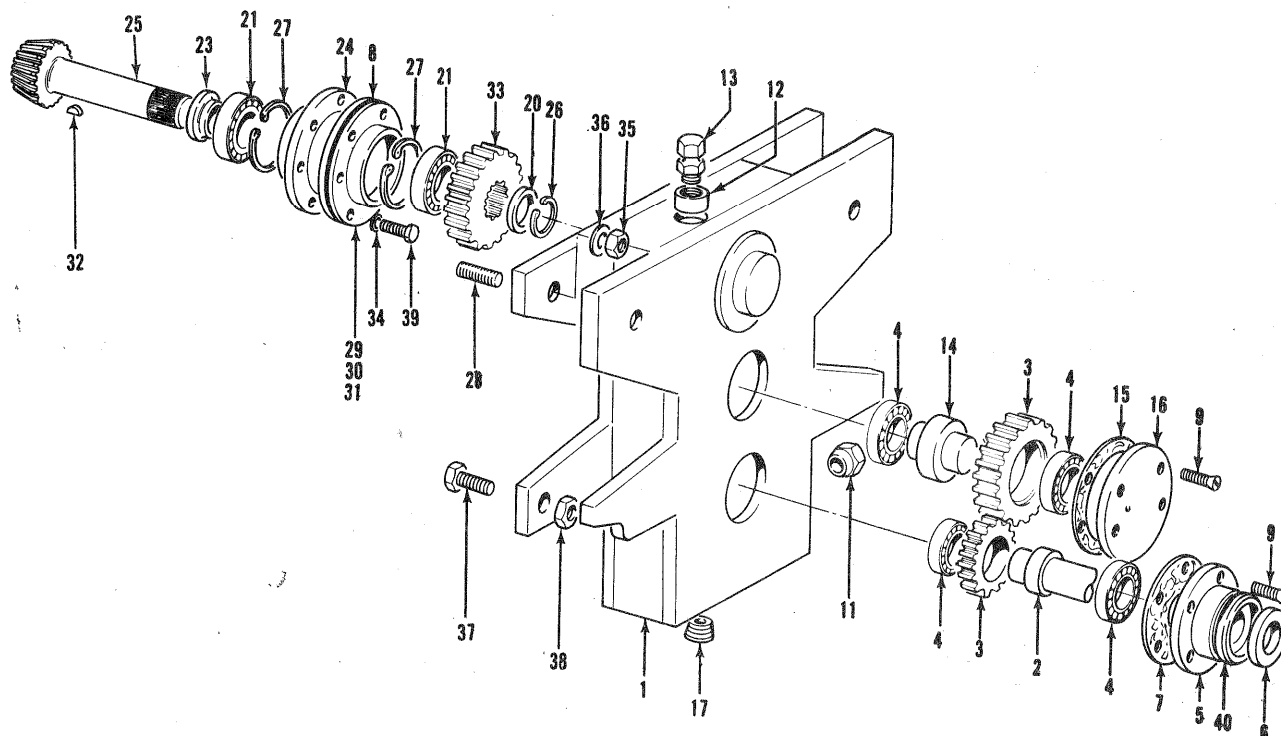
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
18	16829	CAPSCREW-1/2 UNC X 1	6
19	15158	WASHER-1/2	10
20	15898	O-RING	1
21	44482	SEAL	1
23	260699	COVER	1
24	260700	GASKET	1
25	15303	FITTING-PIPE	3
26	15306	PLUG-1/8 NPT	1
27	18586	CAPSCREW-1/2 X 7/8	1
28	260704	SHIM-.005	AR
28	260705	SHIM-.007	AR
28	260706	SHIM-.020	AR
30	219206	SHIM-.005	AR
30	219207	SHIM-.007	AR
30	219208	SHIM-.020	AR
31	39679	O-RING	1
32	15302	PLUG	1

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

POWER TAKE-OFF

FOR FIAT-ALLIS 10B FL-10B FL-10C 8B & FL-9



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
	264046	DROPBOX	1
1	264047	HOUSING	1
2	* 226435	SHAFT-PTO	1
2	+ 293154	SHAFT	1
3	226416	GEAR	2
4	43209	BEARING	4
5	226436	RETAINER-BEARING	1
6	44482	SEAL	1
7	250999	GASKET	1
8	90937	O-RING	1
9	17151	CAPSCREW-3/8 UNC X 1	8
11	146073	VIEW-GAUGE	1
12	252903	BUSHING-PIPE FITTING	1
13	21420	PLUG-BREATHER	1
14	255497	SHAFT	1
15	255499	GASKET	1
16	255498	RETAINER	1
17	15316	FITTING-PIPE	2
20	261527	SPACER	1
21	224104	BEARING	2
23	219176	SPROCKET-DRIVING	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
24	261526	CARRIER-BEARING	1
25	224103	BEVEL PINION SHAFT	1
26	58931	SNAP RING	1
27	67551	SNAP RING	2
28	253818	STUD	2
29	219206	SHIM-.005	AR
30	219207	SHIM-.007	AR
31	219208	SHIM-.020	AR
32	9033	KEY-5/32 X 5/8 DIA	1
33	261529	GEAR	1
34	15158	WASHER-1/2	6
35	15016	NUT-1 UNF	2
36	15166	WASHER-1	2
37	18869	CAPSCREW-7/8 UNF X 3	2
38	53156	NUT-7/8 UNF	2
39	178402	CAPSCREW-SEALING	6
40	15880	O-RING	1

+FIRST USED ON S/N A121-2735

*LAST USED ON S/N A121-2734

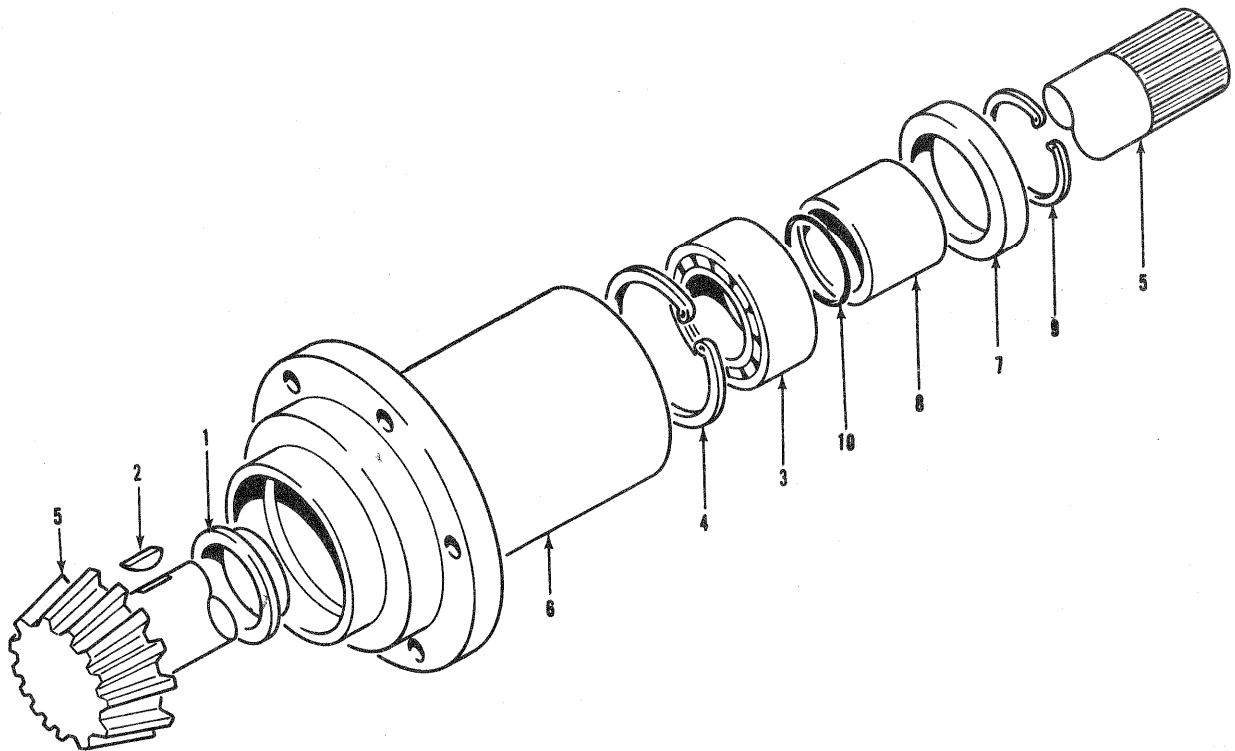
HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

FOR CAN-CAR C8B

POWER TAKE-OFF

FOR MASSEY FERGUSON D-400C

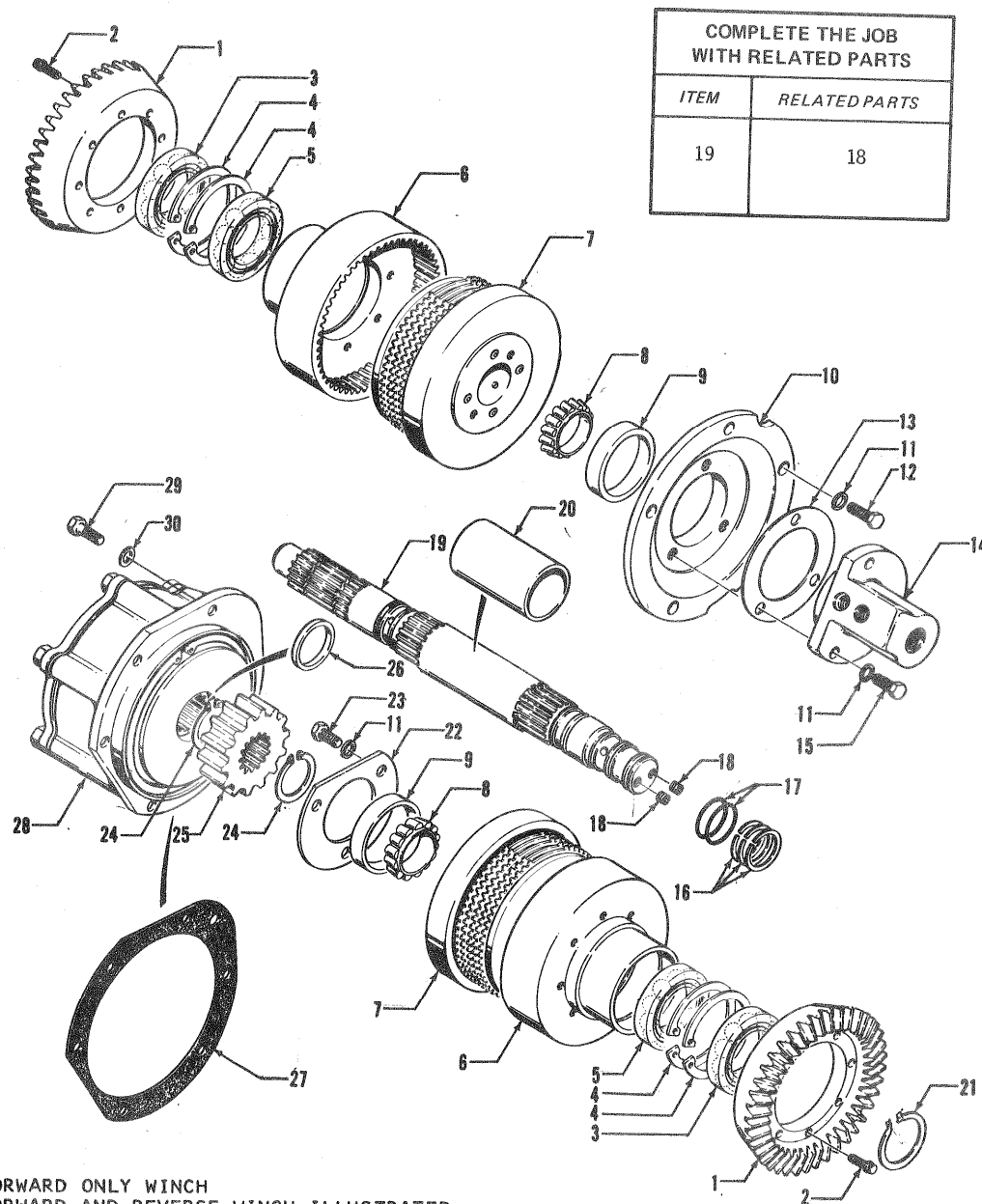


REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.
1	219176	SPROCKET-DRIVING	1
2	9033	KEY-5/32 X 5/8 DIA	1
3	45308	BEARING-BALL	1
4	67551	RING-SNAP	1
5	287038	SHAFT-PTO	1

REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.
6	287039	CARRIER	1
7	31234	SEAL-OIL	1
8	219116	SLEEVE	1
9	58931	RING-SNAP	1
10	39358	O-RING	1

HYSTER COMPANYPARTS OPERATIONS
Danville, Illinois 61832

BEVEL GEAR SHAFT



KEY

A-FOR POWER FORWARD ONLY WINCH
B-FOR POWER FORWARD AND REVERSE WINCH ILLUSTRATED

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
1	* 219111	GEAR-40/17 RATIO	1	2
2	* 246769	CAPSCREW-3/8 UNC X 1 1/4	8	16
3	* 248683	BEARING-BALL	1	2
4	* 46441	SNAP RING	2	4
5	* 44312	BEARING-BALL	1	2
6	* 219064	CARRIER	1	2
7	*	CLUTCH-SEE 1C10	1	2
8	184484	CONE-BEARING	2	2
9	30055	CUP-BEARING	2	2
10	219085	RETAINER	1	1
11	15158	LOCKWASHER-1/2	11	11
12	16830	CAPSCREW-1/2 UNC X 1 1/4	5	5
13	219087	SHIM-.005	AR	AR
13	219088	SHIM-.007	AR	AR
13	219089	SHIM-.020	AR	AR
14	219063	MANIFOLD	1	1
15	18588	CAPSCREW-1/2 UNC X 1 1/2	3	3
16	219070	RING-SEAL	3	3

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
17	39384	O-RING	4	4
18	15483	PLUG-1/8	2	2
19	219065	SHAFT	1	1
20	219221	SPACER	1	..
21	58918	SNAP-RING	..	1
22	219090	RETAINER	1	1
23	16829	CAPSCREW-1/2 UNC X 1	3	3
24	12916	SNAP RING	2	2
25	219066	GEAR-INTERMEDIATE PINION	1	1
26	246759	SPACER	1	1
27	+ 219220	GASKET	1	1
28	.....	BRAKE-SEE 1C11	1	1
29	219109	CAPSCREW-SPECIAL	6	6
30	177949	WASHER-1/2	6	6

*INCLUDED IN GEAR AND CLUTCH ASSY 282711

FIRST USED ON S/N A121-2482

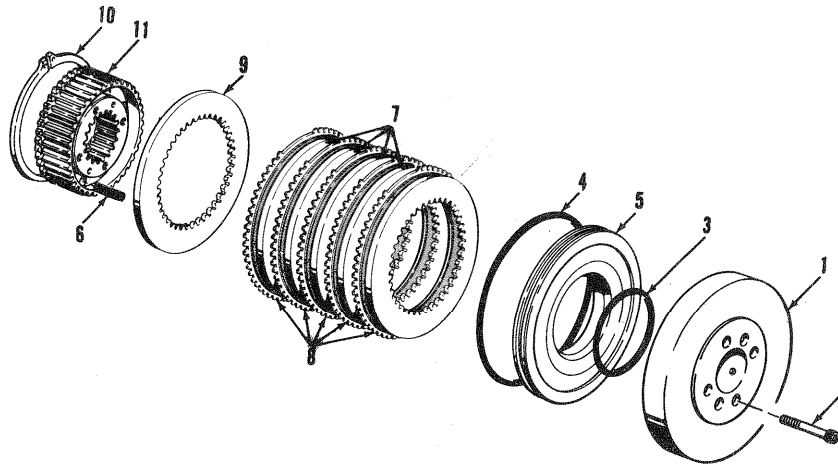
+INCLUDE IN GASKET KIT 296871

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

CLUTCH

PARTS SERVICE GRAM	
Item	Gram
1, 3, 5, 6, 8, 11	A1-C-13 R2



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
	282711	GEAR AND CLUTCH	1
	# 219054	CLUTCH	1
1	+ 219055	HOUSING	1
1	* 282720	HOUSING	1
2	246770	CAPSCREW	4
2	177946	WASHER-5/16	4
3	+ 39713	O-RING	1
3	* 15883	O-RING	1
4	87287	O-RING	1
5	+ 224107	PISTON	1
5	* 282703	PISTON	1
6	+ 243182	SPRING	8
6	* 282707	SPRING	14
7	+ 219057	PLATE-SEPARATOR	4

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
7	* 282704	PLATE-SEPARATOR	4
8	+ 219058	DISC-FRACTION	5
8	* 264061	DISC-FRICTION	5
9	* 282706	RING	1
10	219060	SNAP RING	1
11	+ 219062	HUB	1
11	* 282708	HUB	1

#FOR POWER FORWARD ONLY WINCH ONE CLUTCH IS NEEDED

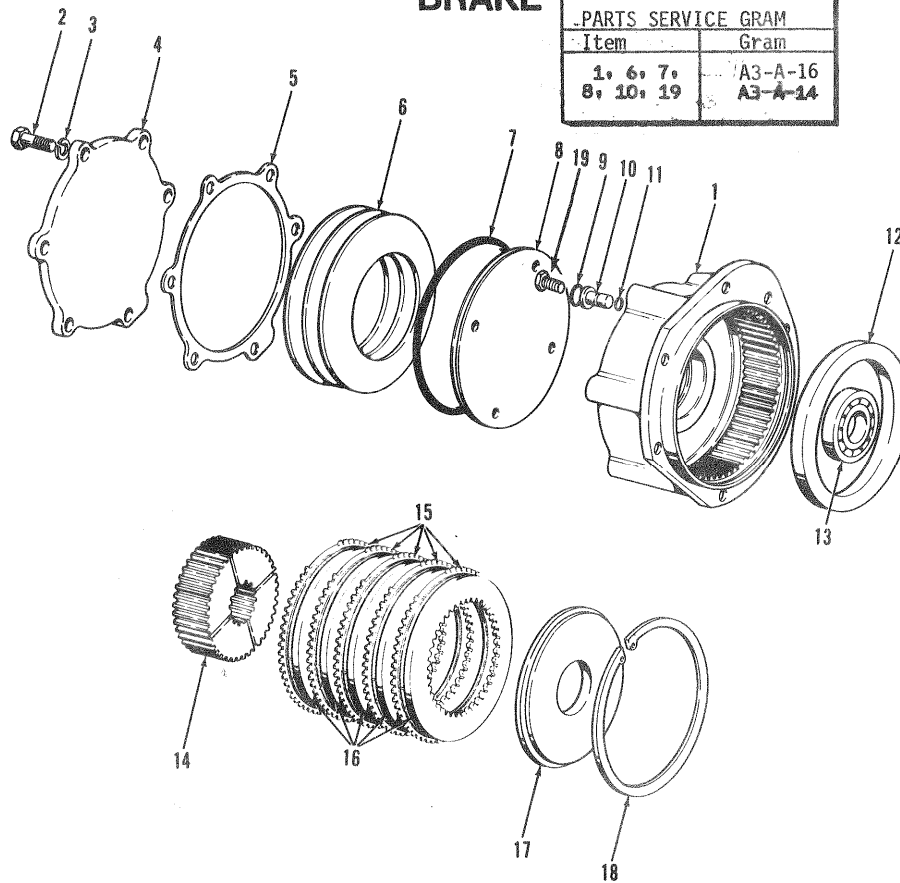
#FOR POWER FORWARD AND REVERSE WINCH TWO CLUTCHES ARE NEEDED

*FIRST USED ON S/N A121-2482

+LAST USED ON S/N A121-2481

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

BRAKE

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
	282710	BRAKE	1
	219212	BRAKE	1
1	+ 219077	HOUSING-BRAKE	1
1	* 253055	HOUSING-BRAKE	1
2	18588	CPSCR-1/2 UNC X 1 1/2	6
3	221771	WASHER-1/2	6
4	219103	COVER	1
5	++ 219219	SHIM-.031	AR
6	219084	SPRING	3
6	* 219084	SPRING	2
7	219096	RING-PISTON SEAL	1
8	+ 219083	PISTON	1
8	# 267013	PISTON	1
8	@\$ 267510	PISTON	1
8	& 282705	PISTON	1
9	63105	O-RING	4
10	219079	PLUNGER	4
10	@\$ 267509	PLUNGER	4
10	& 282701	PLUNGER	4
11	15860	O-RING	4

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
12	219081	RING	1
13	43207	BEARING	1
14	219238	HUB	1
15	\$ 219058	DISC-FRICTION	6
15	& 264061	DISC-FRICTION	6
16	282704	PLATE-SEPARATOR	5
17	219082	RING	1
18	219092	SNAP RING	1
19++*	16332	CAPSCREW-1/4 UNC X 1/2	4

*FIRST USED ON S/N A121 -1704

+LAST USED ON S/N A121 -1825

#FIRST USED ON S/N A121 -1826

@FIRST USED ON S/N A121 -1886

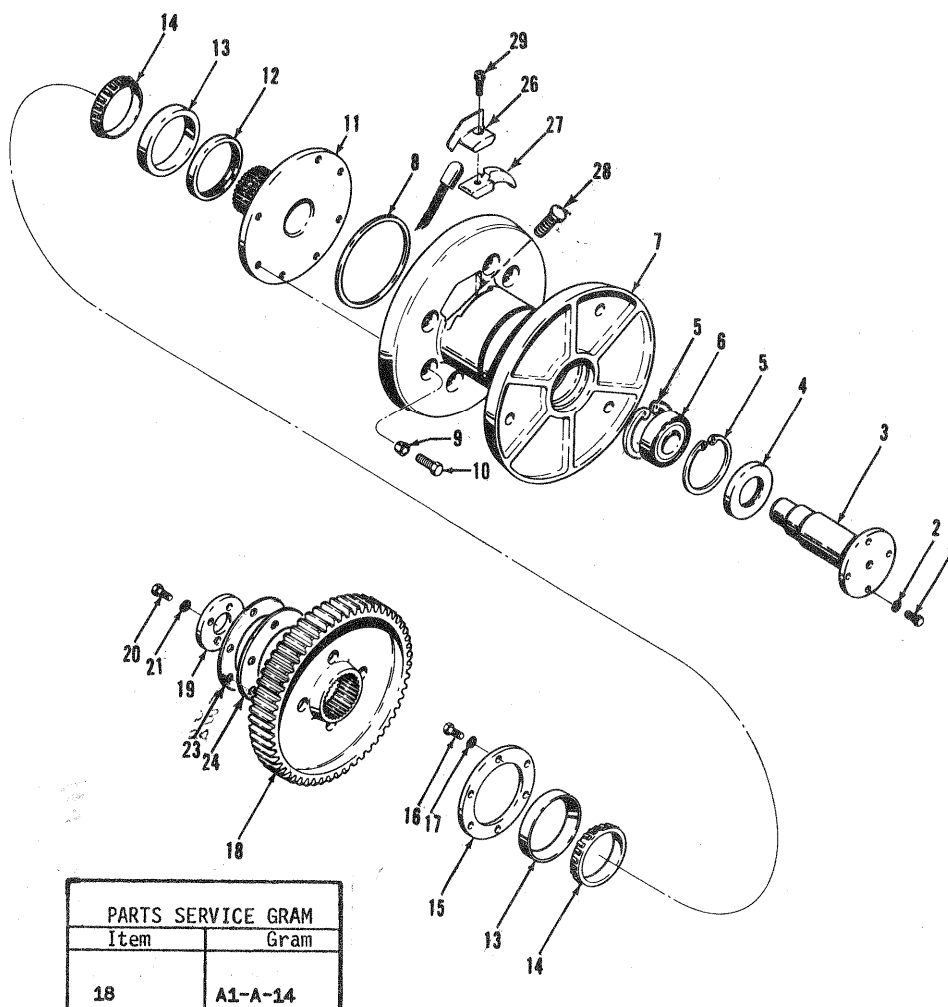
&FIRST USED ON S/N A121-2482

\$LAST USED ON S/N A121-2481

++REQUIRES LOCTITE 230064

HYSTER COMPANY
 PARTS OPERATIONS
 Danville, Illinois 61832

DRUM, DRIVE GEARS AND SHAFT



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	2	3	4
1	178403	CAPSCREW-SEALING 1/2 UNC	4
2	15158	LOCKWASHER-1/2	4
3	219108	SHAFT	1
4	133523	SEAL-OIL	1
5	12956	SNAP RING	1
6	219095	BEARING-ROLLER	1
7	219074	DRUM-7 1/2	1
7 *	267482	DRUM-8 1/2	1
8	178955	SEAL	1
9	53559	DOWEL-SPLIT TAPER	7
9 *	267483	INSERT	7
10	179037	CAPSCREW-SPECIAL	7
10 *	267484	CAPSCREW	7
11	219072	ADAPTER-DRUM	1
12	184926	SEAL-OIL	1
13	219094	BEARING-CUP	2
14	219093	BEARING-CONE	2

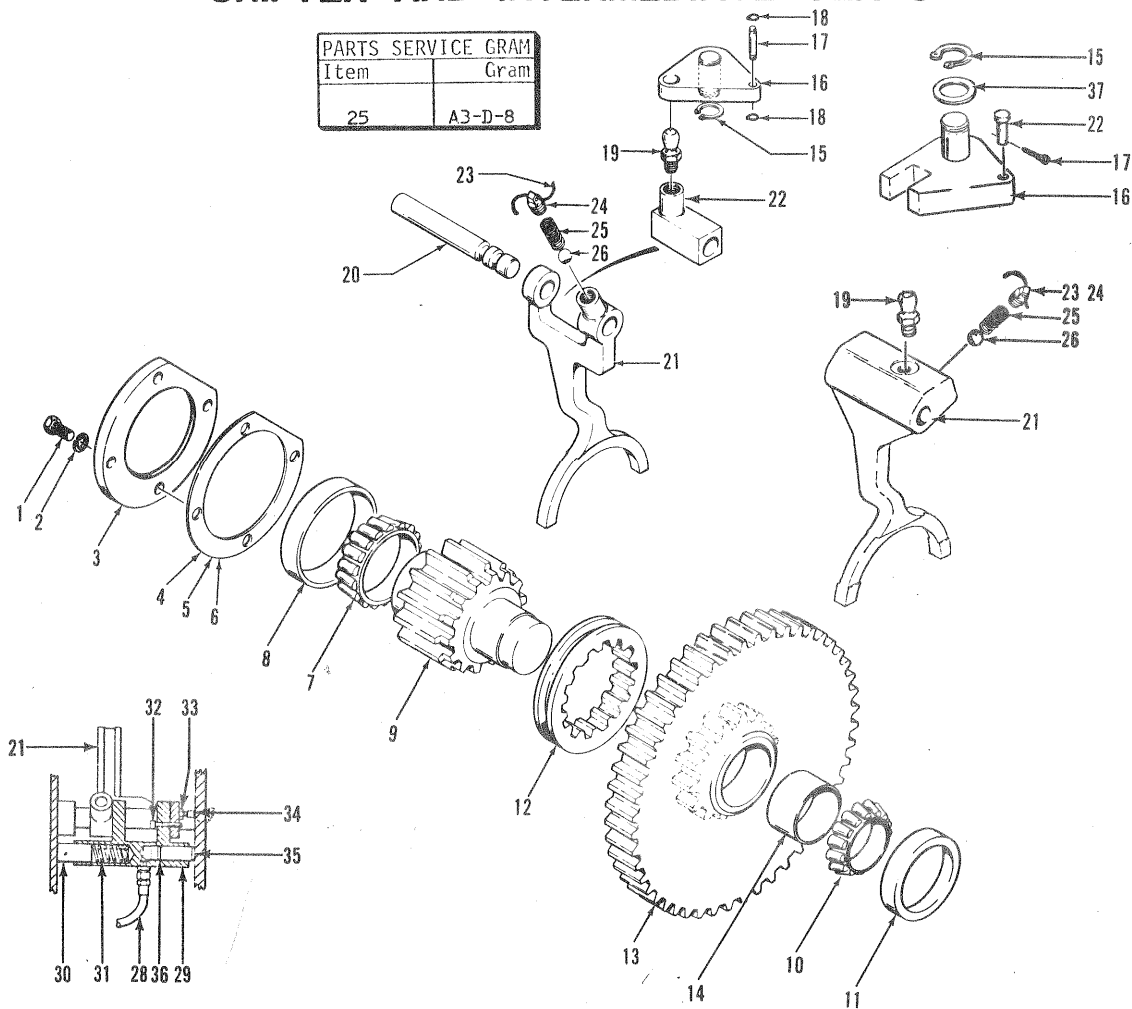
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	2	3	4
15	219106	RETAINER	1
16	16830	CAPSCREW-1/2 UNC X 1 1/4	6
17	15158	LOCKWASHER-1/2	6
18	224109	GEAR-DRIVE	1
19	219104	RETAINER	1
20	16830	CAPSCREW-1/2 UNC X 1 1/4	4
21	15158	LOCKWASHER-1/2	4
23	248676	SHIM-.005	AR
24	248677	SHIM-.007	AR
26	92871	LOCK-FERRULE	1
27	179041	FILLER-GROOVE	1
28 *	195322	CAPSCREW-1/4 UNC X 1 1/4	1
29	27187	SETSCREW ALLENHEAD	1

*FIRST USED ON S/N A121-2056

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

SHIFTER AND INTERMEDIATE GEARS



KEY

A-FOR POWER FORWARD ONLY WINCH
B-FOR POWER FORWARD AND REVERSE WINCH

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
1	178402	CAPSCREW-SEALING	4	4
2	15158	WASHER-1/2	4	4
3	219117	RETAINER-BEARING	1	1
4	219119	SHIM-.005	AR	AR
5	219120	SHIM-.007	AR	AR
6	219121	SHIM-.020	AR	AR
7	219114	BEARING-CONE	1	1
8	219115	BEARING-CUP	1	1
9	224110	GEAR-DRUM PINION	1	1
10	219112	BEARING-CONE	1	1
11	219113	BEARING-CUP	1	1
12	224108	CLUTCH-DENTAL GEAR	1	1
13	225050	GEAR-INTERMEDIATE	1	1
14	219133	BUSHING	1	1
15	58933	SNAP RING	..	1
16	+ 219127	CRANK	..	1
16	* 258166	CRANK	..	1
17	219126	PIN	..	1
17	* 15212	PIN	..	1
18	12892	SNAP RING	..	2
18	* 221870	WASHER	..	2
19	151583	BALL STUD	..	1
20	219122	SHAFT	1	1
21	+ 226643	SHIFTER	1	..
21	* 255483	SHIFTER	1	..
21	+ 219080	SHIFTER	..	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
21	* 255482	SHIFTER	..	1
22	+ 219123	SHIFTER	..	1
22	* 178590	PIN-ROD END	..	1
23	+	LOCKWIRE	..	1
23	* 67355	LOCKWIRE	..	1
24	46578	PLUG	..	1
25	266846	SPRING	..	1
26	6348	BALL	..	1
29	@+ 224124	BODY-ACTUATOR	1	..
29	@*	SEE ITEM 21	1	..
30	@+ 223227	PLUNGER	1	..
30	@* 258164	PLUNGER	1	..
31	@ 223228	SPRING OUTER	1	..
31	@ 223229	SPRING INTER	1	..
32	@+ 18423	WASHER #10	1	..
32	@+ 18093	CAPSCREW #10 UNC X 1 1/2	1	..
33	@ 15001	NUT #10	1	..
34	@ 18497	CAPSCREW #10 UNC X 7/8	1	..
35	@ 223226	PISTON	1	..
36	@ 95716	O-RING	1	..
37	221780	WASHER	..	1

*FIRST USED ON S/N A121 -1976

+LAST USED ON S/N A121 -1975

@FOR POWER FORWARD ONLY FREESPOOL SHIFTER

HYSTER COMPANY

PARTS OPERATIONS

Danville, Illinois 61832

HYDRAULIC SYSTEM

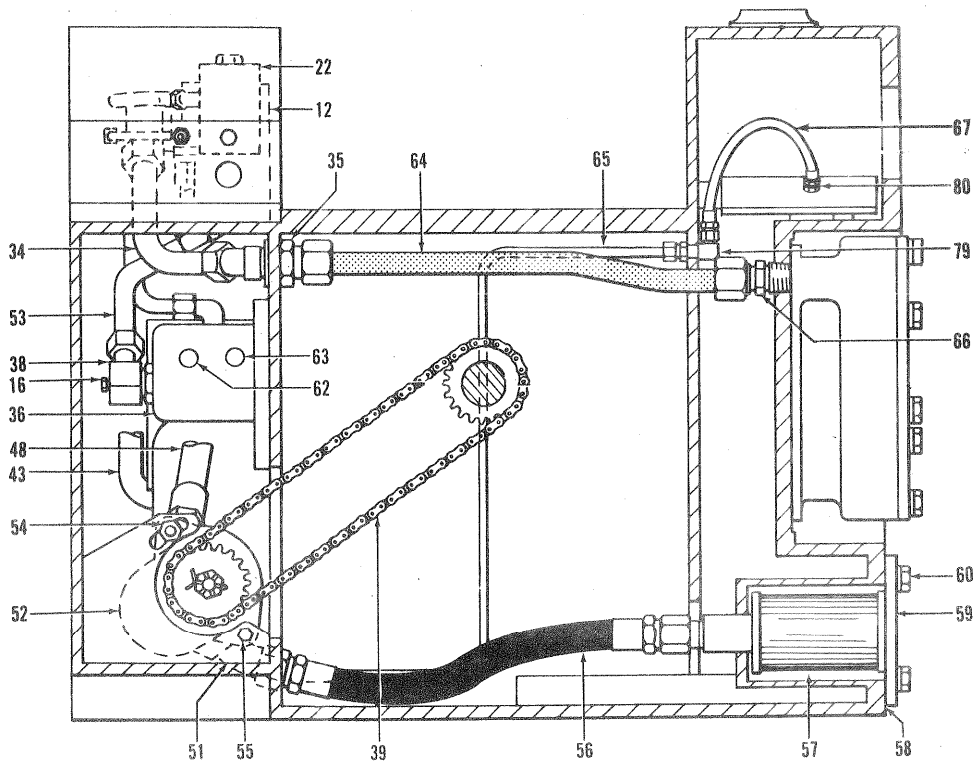
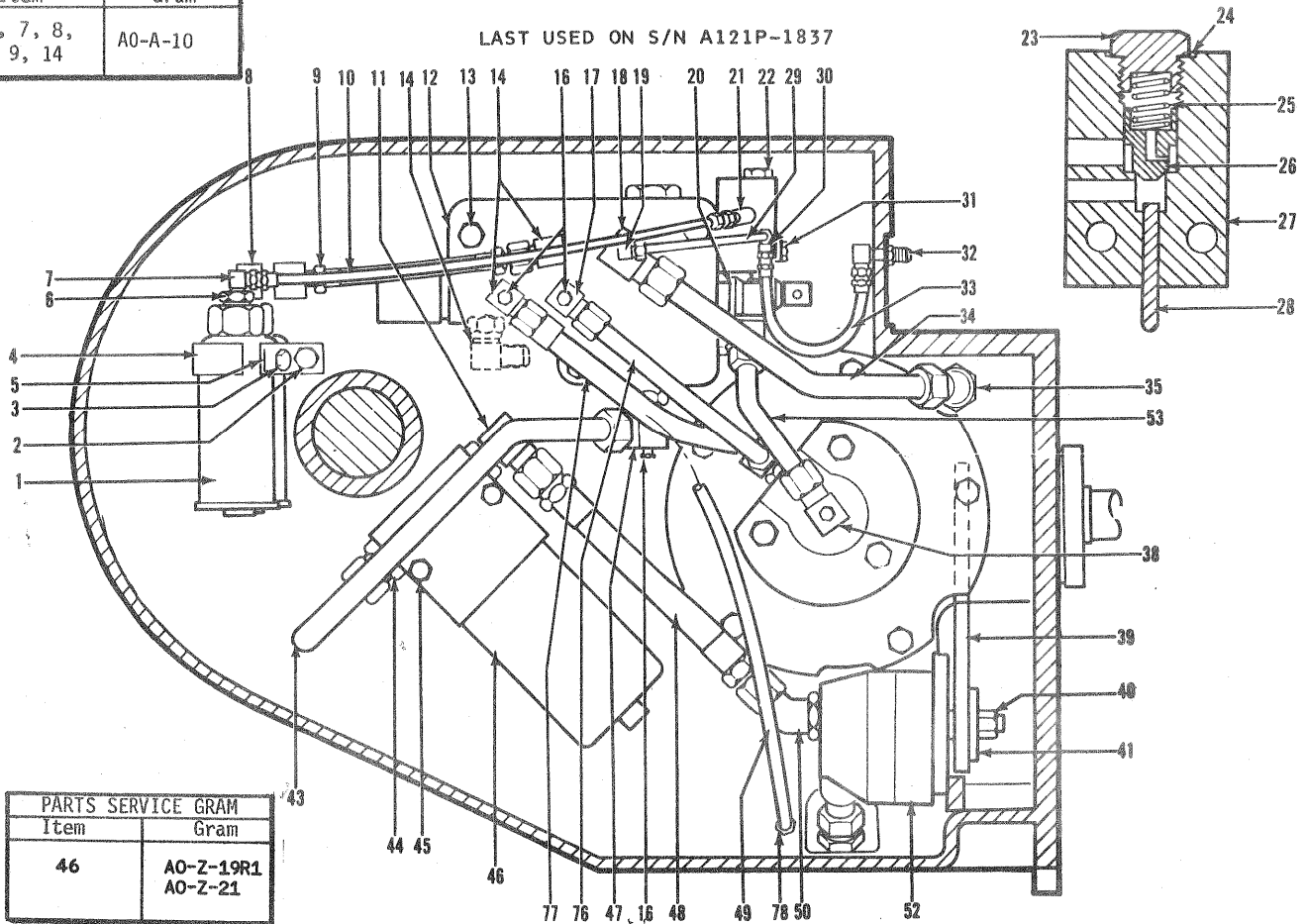
CONTROL VALVE.....1E02-1E03
HYDRAULIC FILTER.....1E04-1E05
HANDLING GEAR.....1D11-1D14
HYDRAULIC PUMP.....1E01
HYDRAULIC SYSTEM.....1D03-1D10

USE HYSTER APPROVED PARTS... *it pays*

HYDRAULIC SYSTEM

PARTS SERVICE GRAM	
Item	Gram
6, 7, 8, 9, 14	AO-A-10

LAST USED ON S/N A121P-1837

**HYSTER COMPANY**
 PARTS OPERATIONS
 Danville, Illinois 61832

HYDRAULIC SYSTEM

LAST USED ON S/N A121 -1837

KEY

A-FOR POWER FORWARD ONLY WINCH

B-FOR POWER FORWARD AND REVERSE WINCH

REF.	HYSTER NO.	PART NO.	NAME OF PART 1 2 3 4	QTY.	
				A	B
1		219165	ACCUMULATOR	2	2
2		15156	WASHER-3/8	1	1
2		194090	CPSCR-3/8 UNC X 3/4	1	1
3		18536	CAPSCREW-3/8 UNC X 2 1/2	1	1
3		145641	NUT-3/8 UNC	1	1
4		241781	CLAMP	1	1
5		241782	STRIP	1	1
6		69815	BUSHING-8 X 4	2	2
7		14501	ELBOW	1	1
8		17306	ELBOW	1	1
9		132011	HOSE	1	1
10		145735	HOSE	1	1
11		201776	ELBOW	1	1
12			CONTROL VALVE SEE 1E02	1	1
13		198385	CAPSCREW-1/2 UNC X 3 1/2	3	3
13		15158	WASHER-1/2	3	3
14	%	16989	ELBOW	..	1
14		17777	TEE-REDUCER	1	..
14		17319	NUT	1	..
14		198352	TEE-ALTERED	1	1
14		16484	O-RING	1	1
16		14349	PLUG	4	4
17		219246	ELBOW-SPECIAL	1	1
17		16484	O-RING	1	1
18		219240	FITTING-SPECIAL	1	1
18		16982	O-RING	1	1
19		14500	ELBOW	1	1
20		219228	CAM	1	1
20		68370	PIN-3/32 X 1 1/4	1	1
21		14538	ELBOW	1	1
22		241775	CONTROL VALVE-ACCUMULATOR	1	1
23		196007	PLUG	1	1
24		16484	O-RING	1	1
25		219230	SPRING	1	1
26		219227	POPPET	1	1
27		219237	BODY	1	1
28		219229	PIN	1	1
29		241783	TUBE	1	1
30		14581	TEE	1	1
31		15156	WASHER-3/8	2	2
31		241778	SCR-SHOULDER 3/8 X 1 3/4	2	2
32		16455	ELBOW	1	1
33		140288	HOSE	1	1
34		219187	TUBE	1	1
35		16468	ELBOW-45	1	1
35		14763	LOCKWASHER	1	1
38		198062	ELBOW-SPECIAL	1	1
38		16485	O-RING	1	1
39	@	219177	CHAIN	1	1
39		241475	LINK-MASTER	1	1
39		241496	LINK-OFFSET	1	1
39	*	225055	CHAIN	1	1
40		21340	NUT-1/2 UNF	1	1
40		15212	PIN-3/32 X 3/4	1	1
41	@	219175	SPROCKET-DRIVEN 23T	1	1
41	*	225056	SPROCKET-DRIVEN 16T	1	1
43		219167	TUBE	1	1
44		83846	CONNECTOR	1	1
45		239885	CAPSCREW-3/8 UNC X 4 1/2	2	2
45		15156	LOCKWASHER-3/8	2	2
46			FILTER-SEE 1E04	1	1
47		164703	ELBOW-MODIFIED	1	1
47		16486	O-RING	1	1
48	%	248678	HOSE	1	1
48	#	219178	HOSE	1	1
49	+	155255	HOSE	1	..
50	%	112471	ELBOW	1	1
50	#	16569	ELBOW	1	1
50		16485	O-RING	1	1
51	%#	16561	ELBOW	1	1
51		16486	O-RING	1	1
51	%	83857	ELBOW-SPECIAL	1	1
51	%	248679	TUBE	1	1
52			PUMP-HYDRAULIC-SEE 1E01	1	1
53		219170	TUBE	1	1
54		219179	CAPSCREW-NYLON	1	1
54		15057	NUT-7/16 UNC	1	1
54		15129	WASHER-7/16	1	1
55		18558	CAPSCREW-7/16 UNC X 1 1/2	1	1
55		15157	WASHER-7/16	1	1
56	%	158740	HOSE	1	1
56	#	139718	HOSE	1	1
57		219172	STRAINER	1	1
58	\$	219195	GASKET	1	1
59		219191	COVER-STRAINER	1	1
60		178403	CAPSCREW-1/2 UNC X 1	4	4
60		15158	LOCKWASHER-1/2	4	4
62	#	16559	ELBOW	1	1
62		16484	O-RING	1	1
62	%	16568	ELBOW-45	..	1
62		16484	O-RING	1	1
63	%#	16541	CONNECTOR	1	1
63		16484	O-RING	1	1
64		219171	TUBE	1	1
64	*	250496	TUBE	1	1
65	+	243175	TUBE	1	..
66		219180	FITTING-SPECIAL	1	1
67	+	140288	HOSE	1	1
76	%	248699	TUBE	1	1
76	#	219169	TUBE	1	1
77	#	219168	TUBE	1	..
77	%	132011	HOSE	..	1
78	+	16445	CONNECTOR	1	..
79	+	16455	ELBOW	1	..
80	+	14669	CONNECTOR	1	..

%FOR TRACTORS WITH CCW ROTATION-SEE A04
 #FOR TRACTORS WITH CW ROTATION-SEE A04
 +FOR POWER FORWARD ONLY FREESPOOL SHIFTER
 *FIRST USED ON S/N A121 -1586
 @LAST USED ON S/N A121 -1585

\$INCLUDED IN GASKET KIT 296871

HYSTER COMPANY

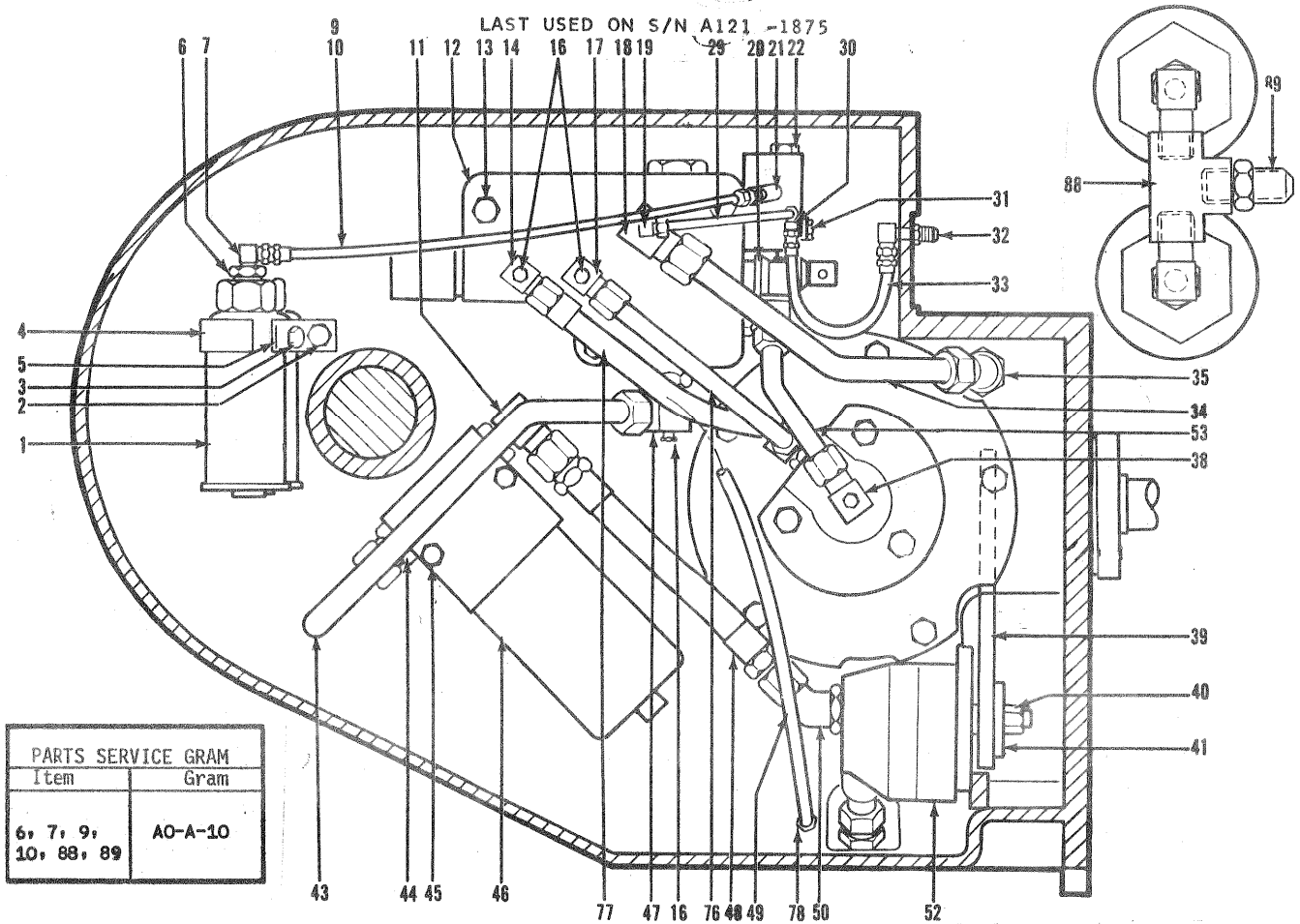
PARTS OPERATIONS

Danville, Illinois 61832

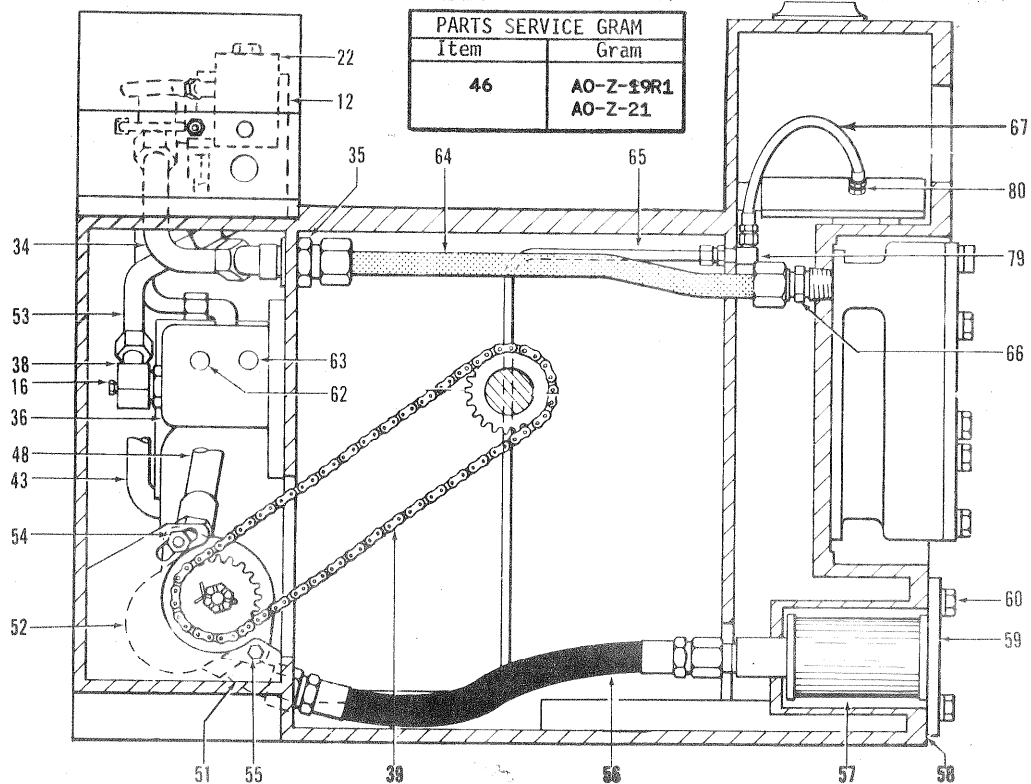
HYDRAULIC SYSTEM

FIRST USED ON S/N A121 -1838

LAST USED ON S/N A121 -1875



PARTS SERVICE GRAM	
Item	Gram
6, 7, 9, 10, 88, 89	AO-A-10



PARTS SERVICE GRAM	
Item	Gram
46	AO-Z-19R1 AO-Z-21

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

HYDRAULIC SYSTEM

FIRST USED ON S/N A121 -1838

LAST USED ON S/N A121 -1875

KEY

A-FOR POWER FORWARD ONLY WINCH

B-FOR POWER FORWARD AND REVERSE WINCH

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.	
			A	B				A	B
1	219165	ACCUMULATOR	2	2	45	15156	LOCKWASHER-3/8	2	2
2	15156	WASHER-3/8	1	1	46	.....	FILTER-SEE 1E04	1	1
2	194090	CPSCR-3/8 UNC X 3/4	1	1	47	164703	ELBOW-MODIFIED	1	1
3	18536	CAPSCREW-3/8 UNC X 2 1/2	1	1	47	16486	O-RING	1	1
3	145641	NUT-3/8 UNC	1	1	48	% 248678	HOSE	1	1
4	241781	CLAMP	1	1	48	# 219178	HOSE	1	1
5	241782	STRIP	1	1	49	+ 155255	HOSE	1	..
6	69815	BUSHING-8 X 4	2	2	50	% 112471	ELBOW	1	1
7	16841	ELBOW	2	2	50	# 16569	ELBOW	1	1
7	69815	REDUCER	2	2	50	16485	O-RING	1	1
9	132011	HOSE	..	1	51	%# 16561	ELBOW	1	1
10	145735	HOSE	1	1	51	16486	O-RING	1	1
11	201776	ELBOW	1	1	51	% 83857	ELBOW-SPECIAL	1	1
11	16486	O-RING	1	1	51	% 248679	TUBE	1	1
12	.....	CONTROL VALVE SEE 1E02	1	1	52	.....	PUMP-HYDRAULIC-SEE 1E01	1	1
13	198385	CAPSCREW-1/2 UNC X 3 1/2	3	3	53	219170	TUBE	1	1
13	15158	WASHER-1/2	3	3	54	219179	CAPSCREW-NYLON	1	1
14	% 16989	ELBOW	..	1	54	15057	NUT-7/16 UNC	1	1
14	17777	TEE-REDUCER	1	..	54	15129	WASHER-7/16	1	1
14	17319	NUT	1	..	55	18558	CAPSCREW-7/16 UNC X 1 1/2	1	1
14	198352	TEE-ALTERED	1	1	55	15157	WASHER-7/16	1	1
14	16484	O-RING	1	1	56	% 158740	HOSE	1	1
16	14349	PLUG	4	4	56	# 139718	HOSE	1	1
17	219246	ELBOW-SPECIAL	1	1	57	219172	STRAINER	1	1
17	16484	O-RING	1	1	58	* 219195	GASKET	1	1
18	219240	FITTING-SPECIAL	1	1	59	219191	COVER-STRAINER	1	1
18	16982	O-RING	1	1	60	178403	CAPSCREW-1/2 UNC X 1	4	4
19	14500	ELBOW	1	1	60	15158	LOCKWASHER-1/2	4	4
20	219228	CAM	1	1	62	# 16559	ELBOW	1	1
20	68370	PIN-3/32 X 1 1/4	1	1	62	16484	O-RING	1	1
21	14538	ELBOW	1	1	62	% 16568	ELBOW-45	..	1
22	226461	CONTROL VALVE-ACCUMULATOR	1	1	62	16484	O-RING	1	1
22	219229	PIN	1	1	63	%# 16541	CONNECTOR	1	1
29	241783	TUBE	1	1	63	16484	O-RING	1	1
30	14581	TEE	1	1	64	250496	TUBE	1	1
31	15156	WASHER-3/8	2	2	65	+ 243175	TUBE	1	..
31	241778	SCR-SHOULDER 3/8 X 1 3/4	2	2	66	219180	FITTING-SPECIAL	1	1
32	16455	ELBOW	1	1	67	+ 140288	HOSE	1	1
33	140288	HOSE	1	1	76	% 248699	TUBE	1	1
34	219187	TUBE	1	1	76	# 219169	TUBE	1	1
35	16468	ELBOW-45	1	1	77	# 219168	TUBE	1	..
35	14763	LOCKWASHER	1	1	77	% 132011	HOSE	..	1
38	198062	ELBOW-SPECIAL	1	1	78	+ 16445	CONNECTOR	1	..
38	16485	O-RING	1	1	79	+ 16455	ELBOW	1	..
39	225055	CHAIN	1	1	80	+ 14669	CONNECTOR	1	..
39	241475	LINK-MASTER	1	1	88	63111	TEE	1	1
39	241496	LINK-OFFSET	1	1	89	14669	ADAPTER 2X4	1	1
40	21340	NUT-1/2 UNF	1	1					
40	15212	PIN-3/32 X 3/4	1	1					
41	225056	SPROCKET-DRIVEN	1	1					
43	219167	TUBE	1	1					
44	83846	CONNECTOR	1	1					
45	239885	CAPSCREW-3/8 UNC X 4 1/2	2	2					

%FOR TRACTORS WITH CCW ROTATION-SEE A04
 #FOR TRACTORS WITH CW ROTATION-SEE A04
 +FOR POWER FORWARD ONLY FREESPOOL SHIFTER
 *INCLUDED IN GASKET KIT 296821

HYSTER COMPANY

PARTS OPERATIONS

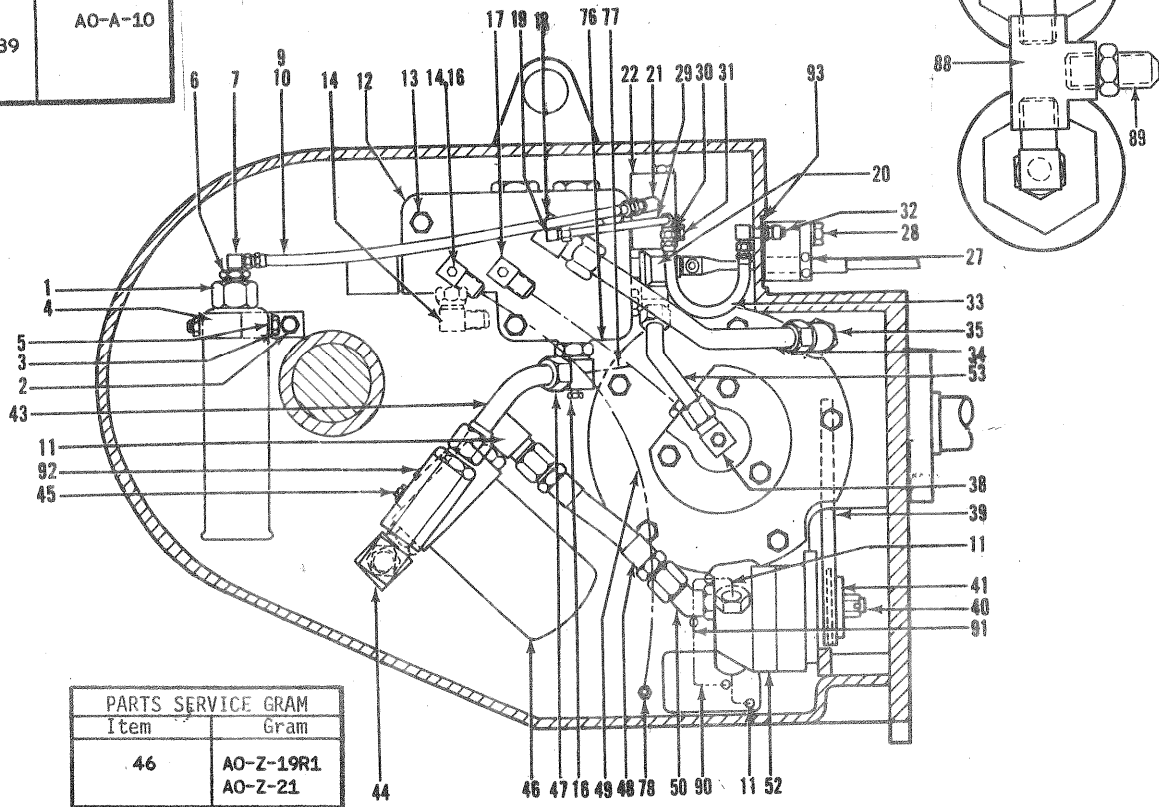
Danville, Illinois 61832

HYDRAULIC SYSTEM

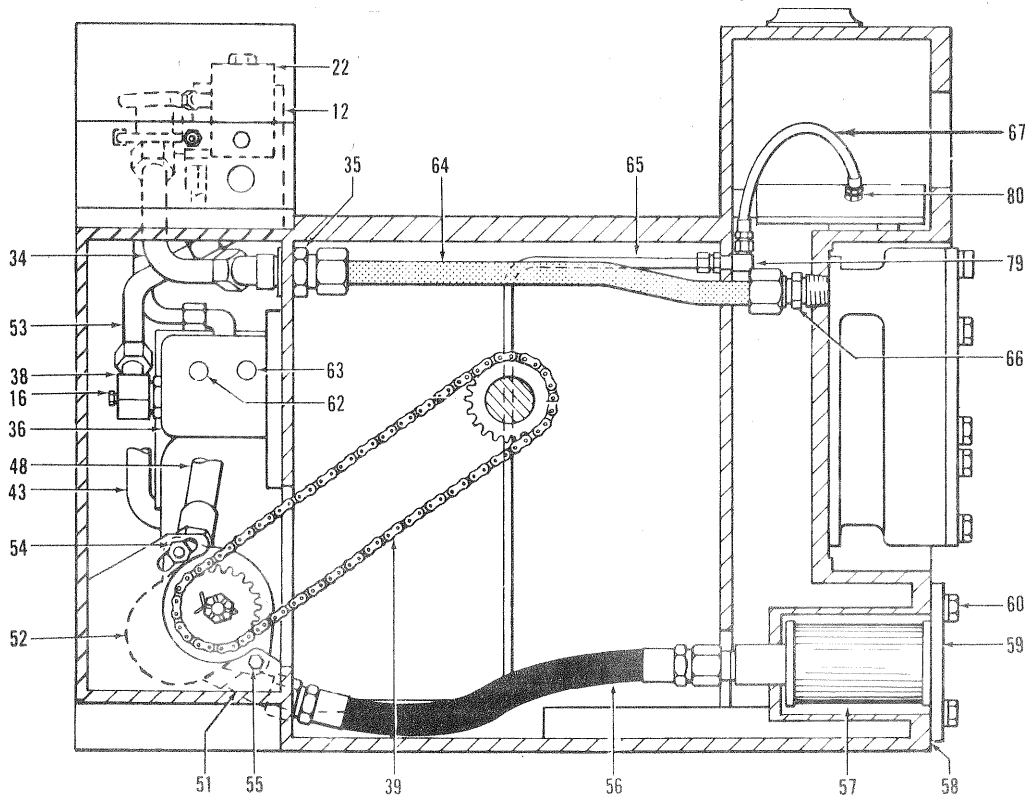
FIRST USED ON S/N A121-1876

LAST USED ON S/N A121-2199

PARTS SERVICE GRAM	
Item	Gram
6, 7, 9 10, 88, 89	AO-A-10



PARTS SERVICE GRAM	
Item	Gram
46	AO-Z-19R1 AO-Z-21



HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

HYDRAULIC SYSTEM

FIRST USED ON S/N A121 -1876

LAST USED ON S/N A121 -2199

KEY

A-FOR POWER FORWARD ONLY WINCH

B-FOR POWER FORWARD AND REVERSE WINCH

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.	
			A	B				A	B
1	219165	ACCUMULATOR	2	2	45	18497	CAPSCREW-5/16 UNC X 1	3	3
2	15156	WASHER-3/8	1	1	45	15155	WASHER-5/16	3	3
2	194090	CAPSCREW-3/8 UNC X 3/4	1	1	45	15156	WASHER-5/16	3	3
3	18537	CAPSCREW-3/8 UNC X 2 1/2	1	1	46	227489	FILTER	1	1
3	145641	NUT-3/8 UNC	1	1	47	164703	ELBOW-MODIFIED	1	1
4	241781	CLAMP	1	1	47	16486	O-RING	1	1
5	241782	STRIP	1	1	47	14349	PLUG-FTG	4	4
6	69815	BUSHING-8 X 4	2	2	48\$	% 255427	HOSE	1	1
7	16841	ELBOW	2	2	48\$	# 255426	HOSE	1	1
7	69815	REDUCER	2	2	49	+ 155255	HOSE	1	..
9	% 132011	HOSE	..	1	50	% 112471	ELBOW	1	1
10	145735	HOSE	1	1	50	# 16569	ELBOW	1	1
11	* 16561	ELBOW	1	1	50	16485	O-RING	1	1
11	16486	O-RING	1	1	51	%# 16561	ELBOW	1	1
12	.....	CONTROL VALVE SEE 1E02	1	1	51	16486	O-RING	1	1
13	198385	CAPSCREW-1/2 UNC X 3 1/2	3	3	51	% 83857	ELBOW-SPECIAL	1	1
13	15158	WASHER-1/2	3	3	51	% 248679	TUBE	1	1
14	% 16989	ELBOW	..	1	52	.....	PUMP-HYDRAULIC-SEE 1E01	1	1
14	17777	TEE-REDUCER	1	..	53	219170	TUBE	1	1
14	17319	NUT	1	..	54	219179	CAPSCREW-NYLON	1	1
14	198352	TEE-ALTERED	1	1	54	15057	NUT-7/16 UNC	1	1
14	16484	O-RING	1	1	54	15129	WASHER-7/16	1	1
16	14349	PLUG	4	4	55	18558	CAPSCREW-7/16 UNC X 1 1/2	1	1
17	219246	ELBOW-SPECIAL	1	1	55	15157	WASHER-7/16	1	1
17	16484	O-RING	1	1	56	% 158740	HOSE	1	1
18	219240	FITTING-SPECIAL	1	1	56	# 139718	HOSE	1	1
18	16982	O-RING	1	1	57	219172	STRAINER	1	1
19	14500	ELBOW	1	1	58	@ 219195	GASKET	1	1
20	279397	CAM	1	1	59	219191	COVER-STRAINER	1	1
20	68370	PIN-3/32 X 1 1/4	1	1	60	178403	CAPSCREW-1/2 UNC X 1	4	4
21	14538	ELBOW	1	1	60	15158	LOCKWASHER-1/2	4	4
22	226461	CONTROL VALVE-ACCUMULATOR	1	1	62	# 16559	ELBOW	1	1
22	\$ 267018	CONTROL VALVE-ACCUMULATOR	1	1	62	16484	O-RING	1	1
27	236417	CABLE-BRACKET	1	1	62	% 16568	ELBOW-45	..	1
27	39349	O-RING	1	1	62	16484	O-RING	1	1
27	62449	PIN	1	2	63	%# 16541	CONNECTOR	1	1
28	18590	CAPSCREW-1/2 UNC X 2 1/2	1	1	63	16484	O-RING	1	1
28	15158	LOCKWASHER-1/2	1	1	64	250496	TUBE	1	1
29	241783	TUBE	1	1	65	+ 243175	TUBE	1	..
30	14581	TEE	1	1	66	219180	FITTING-SPECIAL	1	1
31	15156	WASHER-3/8	2	2	67	+ 140288	HOSE	1	1
31	241778	SCR-SHOULDER 3/8 X 1 3/4	2	2	76	% 248699	TUBE	1	1
32	16455	ELBOW	1	1	76	# 219169	TUBE	1	1
33	140288	HOSE	1	1	77	# 219168	TUBE	1	..
34	219187	TUBE	1	1	77	% 132011	HOSE	..	1
35	16468	ELBOW-45	1	1	78	+ 16445	CONNECTOR	1	..
35	14763	LOCKWASHER	1	1	79	+ 16445	ELBOW	1	..
38	198062	ELBOW-SPECIAL	1	1	80	+ 14669	CONNECTOR	1	..
38	16485	O-RING	1	1	88	63111	TEE	1	1
39	225055	CHAIN	1	1	89	14669	PIPE-SPECIAL	1	1
39	241475	LINK-MASTER	1	1	90	% 248697	TUBE	1	1
39	241496	LINK-OFFSET	1	1	91	83857	ELBOW	1	1
40	21340	NUT-1/2 UNF	1	1	92	* 271729	VALVE-CHECK	1	1
40	15212	PIN-3/32 X 3/4	1	1	93	@ 241787	GASKET	1	1
41	225056	SPROCKET-DRIVEN	1	1					
43	* 271737	TUBE	1	1					
43	227474	TUBE	1	1					
43	17304	CONNECTOR	2	2					
44	* 213620	ADAPTER-ELBOW	1	1					
44	* 12833	FITTING	1	1					
44	* 17311	ELBOW	1	1					
44	16543	CONNECTOR	1	1					
44	16486	O-RING	1	1					

%FOR TRACTORS WITH CCW ROTATION-SEE A04

%FOR TRACTORS WITH CW ROTATION-SEE A04

%FIRST USED ON S/N A121 -1969

\$FIRST USED ON S/N A121 -1964

+FOR POWER FORWARD ONLY FREESPOOL SHIFTER

@INCLUDED IN GASKET KIT 296871

HYSTER COMPANY

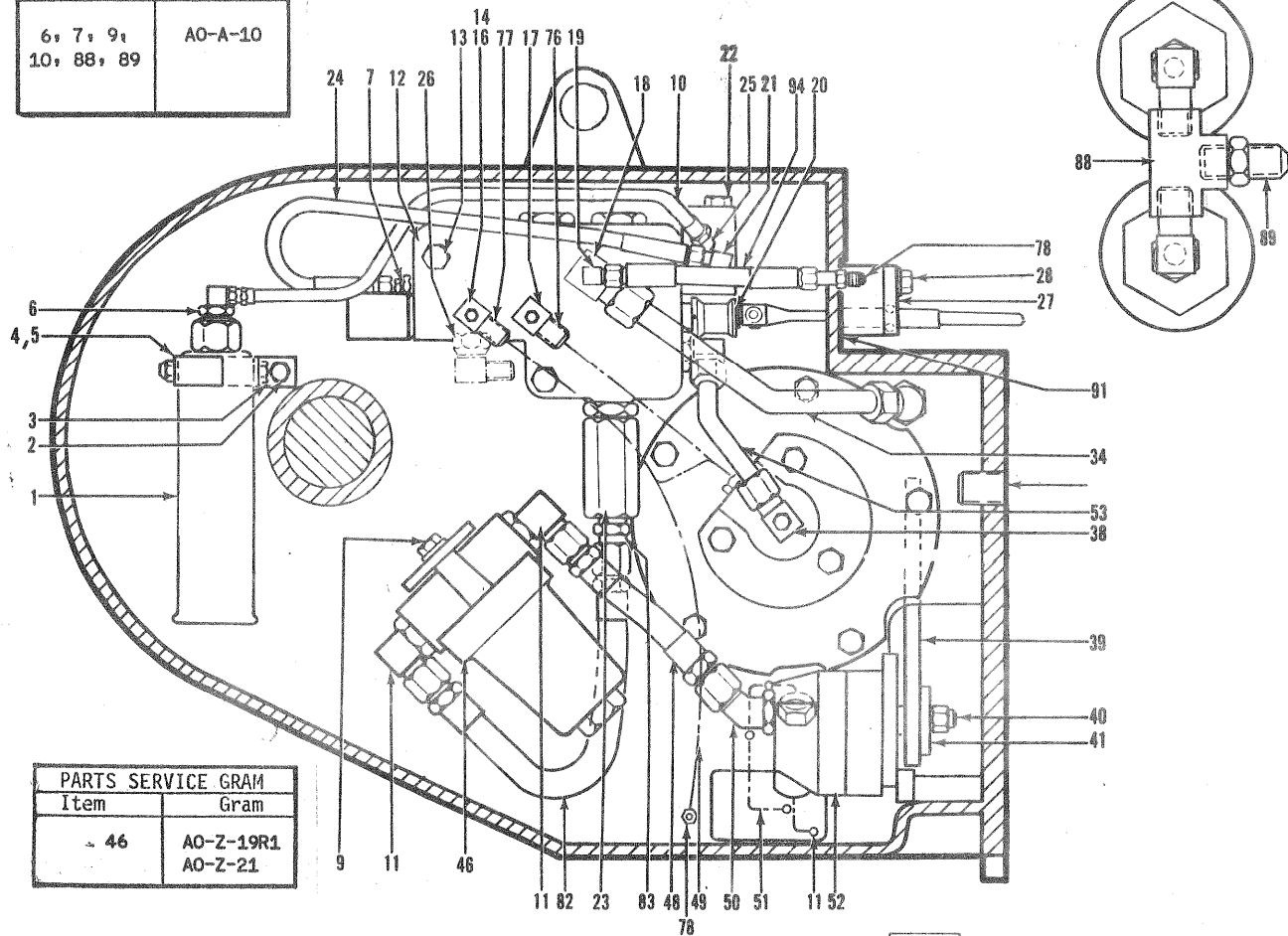
PARTS OPERATIONS

Danville, Illinois 61832

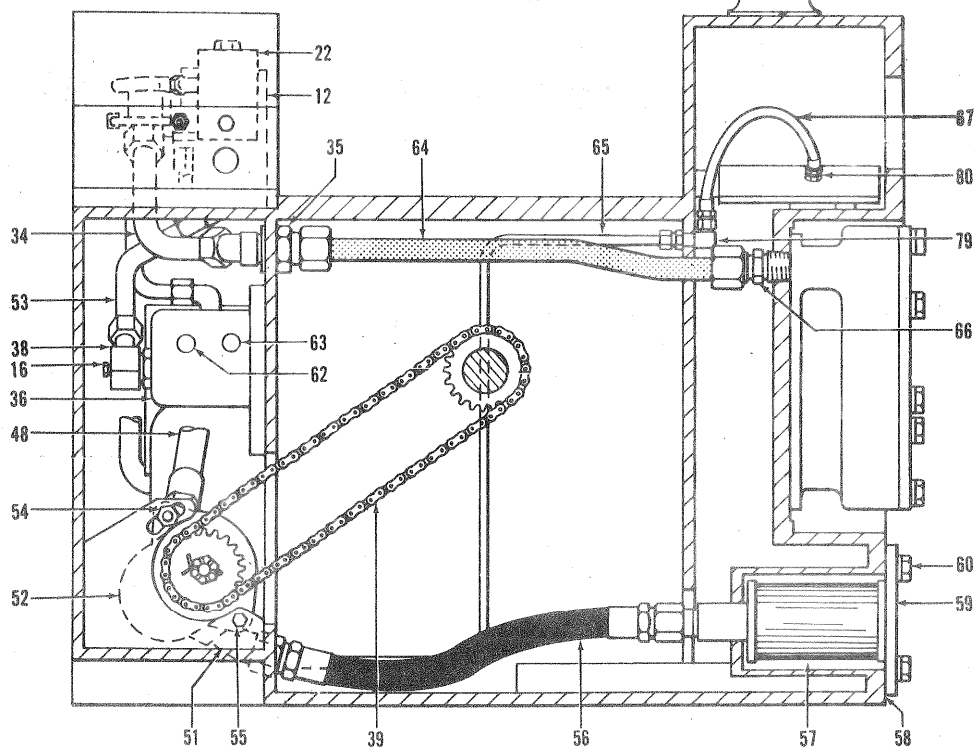
HYDRAULIC SYSTEM

FIRST USED ON S/N A121-2200

Item	Gram
6, 7, 9, 10, 88, 89	AO-A-10



Item	Gram
46	AO-Z-19R1 AO-Z-21



HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

HYDRAULIC SYSTEM

FIRST USED ON S/N A121-2200

KEY

A-FOR POWER FORWARD ONLY WINCH

B-FOR POWER FORWARD AND REVERSE WINCH

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.		REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B				A	B
1	219165	ACCUMULATOR	2	2	48	% 255427	HOSE	1	1
2	15156	WASHER-3/8	1	1	48	# 255426	HOSE	..	1
2	194090	CAPSCREW-3/8 UNC X 3/4	1	1	49	+ 155255	HOSE	1	..
3	18536	CAPSCREW-3/8 UNC X 2 1/2	1	1	49	* 187878	HOSE	1	..
3	145641	NUT-3/8 UNC	1	1	50	% 112471	ELBOW	1	1
4	241781	CLAMP	1	1	50	# 16569	ELBOW	1	1
5	241782	STRIP	1	1	50	% 16485	O-RING	1	1
6	69815	BUSHING-8 X 4	2	2	51	%# 16561	ELBOW	1	1
7	14668	TEE	1	1	51	% 16486	O-RING	1	1
7	12843	FTG	1	1	51	% 83857	ELBOW-SPECIAL	1	1
7	69815	REDUCER	2	2	51	% 248679	TUBE	1	1
9	16829	CAPSCREW-1/2 UNC X 1	2	2	52	.....	PUMP-HYDRAULIC-SEE 1E01	1	1
9	15158	WASHER-1/2	2	2	53	219170	TUBE	1	1
9	15178	WASHER-1/2	2	2	54	219179	CAPSCREW-NYLON	1	1
10	145735	HOSE	1	1	54	15057	NUT-7/16 UNC	1	1
11	16561	ELBOW	2	2	54	15129	WASHER-7/16	1	1
11	16486	O-RING	1	1	55	18558	CAPSCREW-7/16 UNC X 1 1/2	1	1
12	.....	CONTROL VALVE SEE 1E02	1	1	55	15157	WASHER-7/16	1	1
13	198385	CAPSCREW-1/2 UNC X 3 1/2	3	3	56	% 158740	HOSE	1	1
13	15158	WASHER-1/2	3	3	56	# 139718	HOSE	1	1
14	+ 17777	TEE-REDUCER	1	..	57	219172	STRAINER	1	1
14	* 17218	TEE-REDUCER	1	..	58	@ 219195	GASKET	1	1
14	17319	NUT	1	..	59	219191	COVER-STRAINER	1	1
14	198352	TEE-ALTERED	1	1	60	178403	CAPSCREW-1/2 UNC X 1	4	4
14	16484	O-RING	1	1	60	15158	LOCKWASHER-1/2	4	4
16	14349	PLUG	4	4	62	# 16559	ELBOW	1	1
17	219246	ELBOW-SPECIAL	1	1	62	% 16484	O-RING	1	1
17	16484	O-RING	1	1	62	% 16568	ELBOW-45	..	1
18	219240	FITTING-SPECIAL	1	1	62	% 16484	O-RING	1	1
18	16982	O-RING	1	1	63	%# 16541	CONNECTOR	1	1
19	14500	ELBOW	1	1	63	% 16484	O-RING	1	1
20	279397	CAM	1	1	64	250496	TUBE	1	1
20	68370	PIN-3/32 X 1 1/4	1	1	65	+ 243175	TUBE	1	..
21	14516	ELBOW	1	1	65	* 282721	TUBE	1	..
21	15472	FTG	1	1	66	219180	FITTING-SPECIAL	1	1
22	267018	CONTROL VALVE-ACCUMULATOR	1	1	67	+ 140288	HOSE	1	1
23	271729	CHECK VALVE	1	1	67	* 246145	HOSE	1	..
23	16486	O-RING	1	1	76	% 248699	TUBE	1	1
24	109002	HOSE	1	1	76	# 219169	TUBE	1	1
25	14538	CONNECTOR	1	1	77	# 219168	TUBE	1	..
26	% 16989	ELBOW	..	1	77	% 132011	HOSE	..	1
27	236417	CABLE-BRACKET	1	1	78	+ 16445	CONNECTOR	1	..
27	62499	PIN-ROLL	2	2	78	* 16447	FTG-BULKHEAD	1	..
27	@ 39349	O-RING	1	1	79	+ 16455	ELBOW	1	..
28	18590	CAPSCREW-1/2 UNC X 2 1/2	1	1	79	* 16457	FTG-BULKHEAD	1	..
28	15158	WASHER-1/2	1	1	80	+ 14669	CONNECTOR	1	..
34	219187	TUBE	1	1	80	* 14675	CONNECTOR	1	..
35	16468	ELBOW-45	1	1	82	139718	HOSE	1	1
35	14763	LOCKWASHER	1	1	83	17346	CONNECTOR	1	1
37	280977	SET-SCREW FIAT-ALLIS ONLY	1	1	88	63111	TEE	1	1
38	198062	ELBOW-SPECIAL	1	1	89	14669	PIPE-SPECIAL	1	1
38	16485	O-RING	1	1	91	@ 241787	GASKET	1	1
39	225055	CHAIN	1	1	93	15472	FTG	1	1
39	241475	LINK-MASTER	1	1					
39	241496	LINK-OFFSET	1	1	94	140288	HOSE	1	1
40	21340	NUT-1/2 UNF	1	1					
40	15212	PIN-3/32 X 3/4	1	1					
41	225056	SPROCKET-DRIVEN	1	1					
46	&	FILTER-SEE 1E05	1	1					

%FOR TRACTORS WITH CCW ROTATION-SEE A04

#FOR TRACTORS WITH CW ROTATION-SEE A04

&WHEN CONVERTING TO 279388 USE CONVERSION KIT 280269

*FIRST USED ON S/N A121-2292 FOR POWER FORWARD ONLY FREESPOOL SHIFTER

+LAST USED ON S/N A121-2291

@INCLUDED IN GASKET KIT 296871

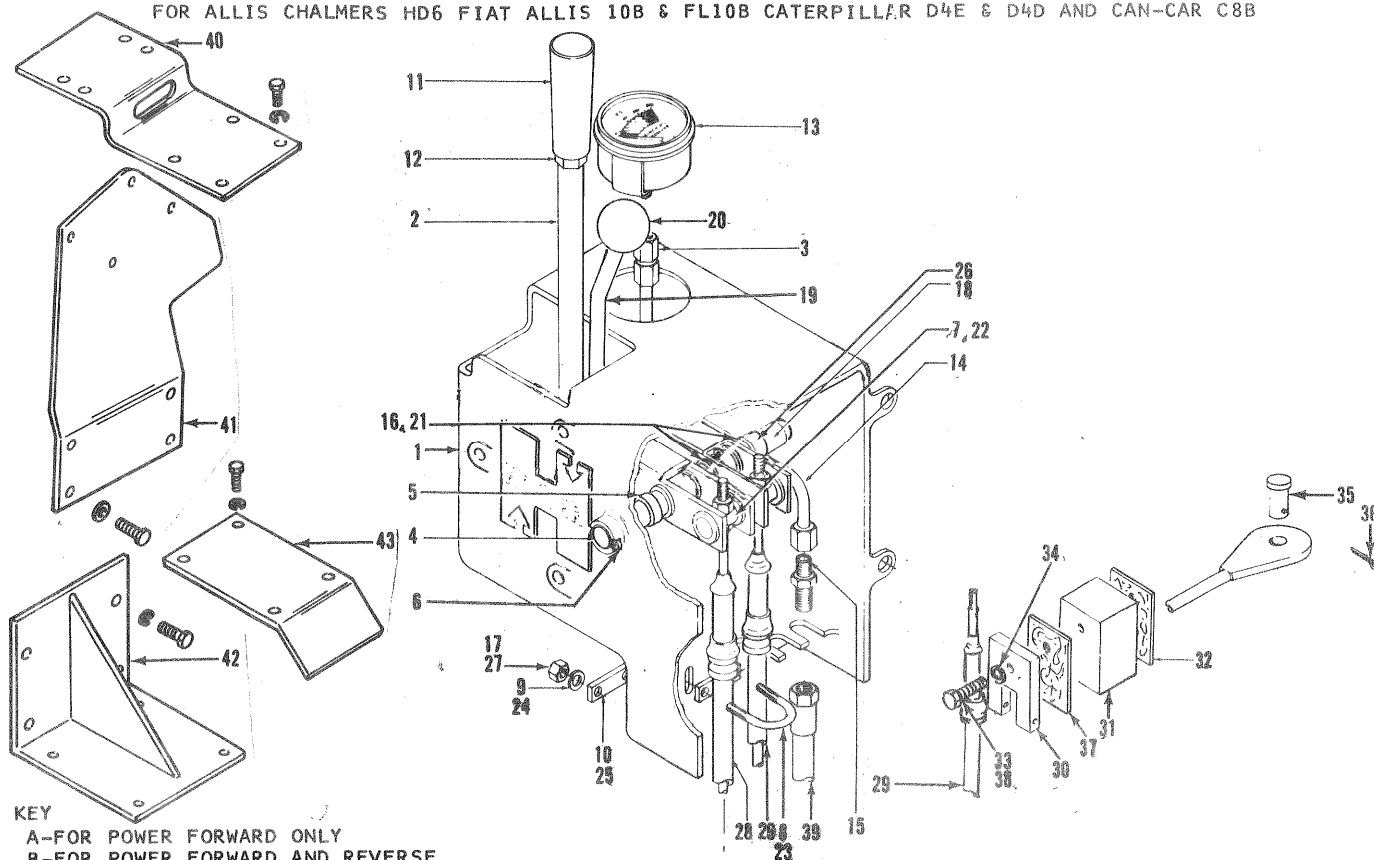
HYSTER COMPANY

PARTS OPERATIONS

Danville, Illinois 61832

HANDLING GEAR

FOR ALLIS CHALMERS HD6 FIAT ALLIS 10B & FL10B CATERPILLAR D4E & D4D AND CAN-CAR C8B



KEY

A-FOR POWER FORWARD ONLY
B-FOR POWER FORWARD AND REVERSE

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
1	196462	HANDLEVER	1	..
2	227468	HANDLEVER	..	1
3	196114	HOUSING	1	1
4	276031	LEVER	1	1
5	14712	FITTING	1	1
6	276041	PIN	1	1
7	15135	WASHER-1/2	3	3
8	15225	PIN-1/8 X 1 1/2	2	2
9	196128	PIN	1	1
10	196129	U-BOLT	1	1
11	15155	WASHER-5/16	2	2
12	196130	SPACER	2	2
13	196469	KNOB	1	1
14	15030	NUT-5/8 UNF	1	1
15	192407	GAUGE-OIL PRESSURE	1	1
16	196134	TUBE	1	1
17	16445	FITTING	1	1
18	391016	WASHER	1	1
19	15055	NUT-5/16 UNC	1	1
20	271748	SPACER	1	..
21	276032	LEVER	..	1
22	243189	KNOB	..	1
23	391016	WASHER	..	1
24	196128	PIN	..	1
25	196129	U-BOLT	..	1
26	15155	WASHER-5/16	..	2
27	196130	SPACER	..	2
28	271746	SPACER	..	1
29	15055	NUT-5/16 UNC	..	2
30	# 303940	CABLE-CONTROL	1	1
31	@ 303939	CABLE-CONTROL	1	1
32	& 303942	CABLE-CONTROL	1	1
33	+ 303938	CABLE-FREESPOOL	..	1
34	@ 303941	CABLE-FREESPOOL	..	1
35	& 303942	CABLE-FREESPOOL	..	1
36	# 303940	CABLE-FREESPOOL	..	1
37	264063	PLATE	..	1
38	243181	SPACER	1	1
39	241787	GASKET	1	1
40	18590	CAPSCREW-1/2 UNC X 2 1/2	1	1
41	15158	WASHER-1/2	2	2
42	139	PIN-ROD END	1	1
43	15212	PIN-3/32 X 3/4	1	1
44	303946	GASKET	2	2
45	16830	CAPSCREW-1/2 UNC X 1 1/4	1	1
46	+ 165504	HOSE-OIL PRESSURE	1	1
47	@ 139720	HOSE-OIL PRESSURE	1	1
48	# 205004	HOSE-OIL PRESSURE	1	1
49	+ 16598	CAPSCREW-3/8 UNC X 7/8	8	8
50	+ 15156	WASHER-3/8	10	10
51	+ 15056	NUT-3/8 UNC	8	8
52	+ 230063	BRACKET	1	1
53	@ 16828	CAPSCREW-5/16 UNC X 1	8	8
54	@ 15156	LOCKWASHER-3/8	8	8
55	@ 15056	NUT-3/8 UNC	8	8
56	@ 15176	WASHER-3/8	4	4
57	@ 274922	BRACKET	1	1
58	& 15056	NUT-3/8 UNC	6	6
59	& 16816	CAPSCREW-3/8 UNC X 1 3/4	6	6
60	& 15156	WASHER-3/8	8	8
61	& 16828	CAPSCREW-3/8 UNC X 1 1/4	2	2
62	& 308402	BRACKET	1	1
63	# 16805	CAPSCREW-3/8 UNC X 1	4	4
64	# 15156	LOCKWASHER-3/8	4	4
65	# 15056	NUT-3/8 UNC	4	4
66	# 257795	PLATE	1	1

+FOR ALLIS CHALMERS HD6

@FOR FIAT ALLIS 10B & FL10B

&FOR CATERPILLAR D4E & D4D

#FOR CAN-CAR C8B

NOTE: FREESPOOL HANDLING GEAR ILLUS

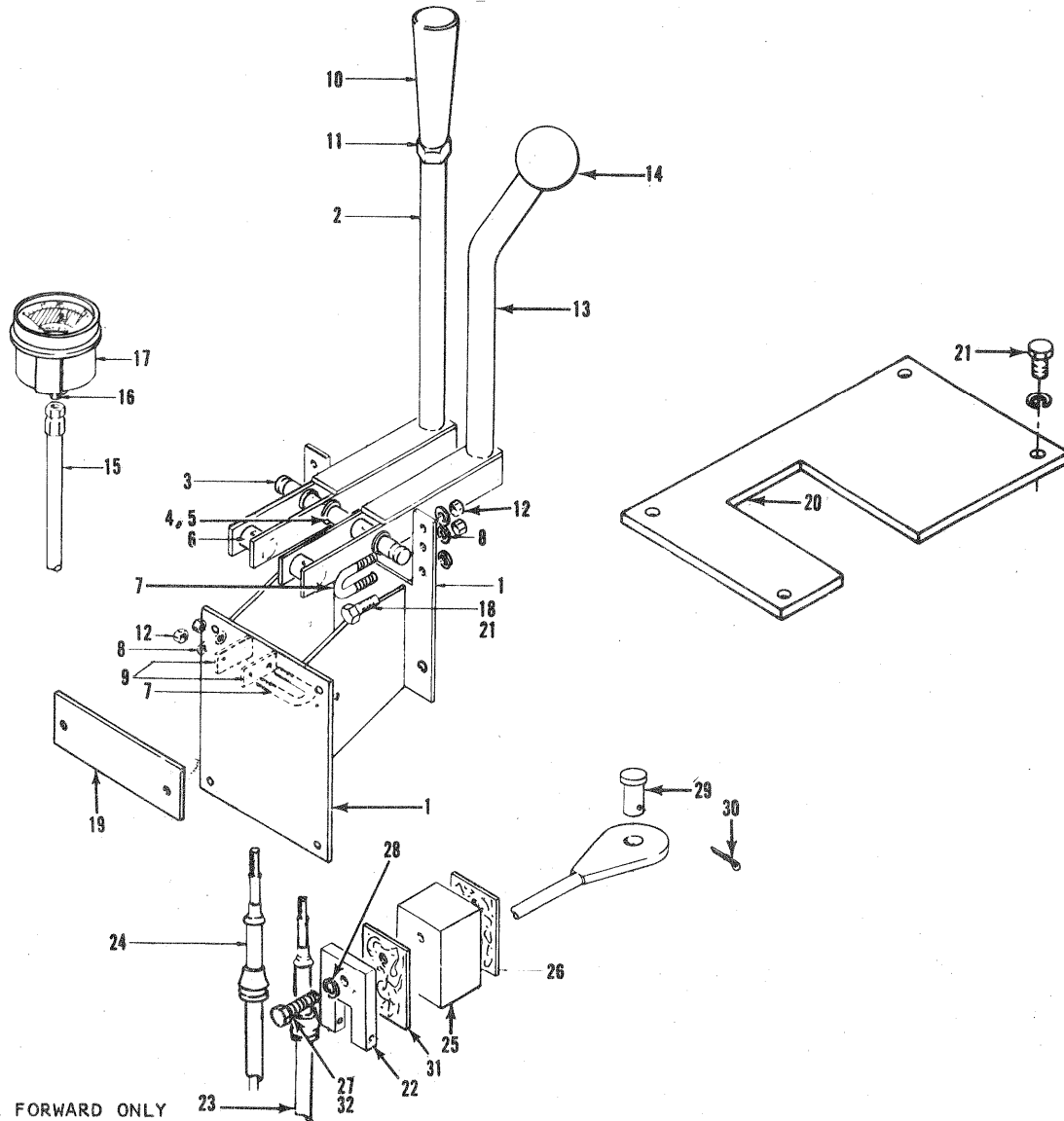
HYSTER COMPANY

PARTS OPERATIONS

Danville, Illinois 61832

HANDLING GEAR

FIAT ALLIS 8B FL-9 10C & FL-10C

**KEY**

A-POWER FORWARD ONLY
B-POWER FORWARD AND REVERSE

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
	287026	HANDLEVER	1	..
	287027	HANDLEVER	..	1
1	283431	BRACKET	1	1
2	276031	LEVER	1	1
3	276081	PIN	1	1
4	15135	WASHER-1/2	5	4
5	271747	SPACER	1	..
5	77418	SPACER	..	1
6	196128	PIN	1	2
7	196129	BOLT-U	3	4
8	15155	WASHER-5/16	6	8
9	196130	SPACER	2	4
10	196469	KNOB	1	1
11	15030	NUT-5/8 UNF	1	1
12	15055	NUT-5/16 UNC	6	8
13	276032	LEVER	..	1
14	243189	KNOB	..	1
15	+ 139720	HOSE-OIL PRESSURE	1	1
15	& 165504	HOSE-OIL PRESSURE	1	1
16	14712	FITTING	1	1
17	192407	GAUGE-OIL PRESSURE	1	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
18	+ 16805	CAPSCREW-3/8 UNC X 1	4	4
18	+ 15156	LOCKWASHER-3/8	4	4
19	& 283430	PLATE	1	1
20	& 287028	COVER-CONSOLE	1	1
21	& 16805	CAPSCREW-3/8 UNC X 1	8	8
21	& 15156	LOCKWASHER-3/8	8	8
22	264063	PLATE	1	..
23	303941	CABLE-FREESPOOL	..	1
24	303939	CABLE-CONTROL	1	1
25	243181	SPACER	1	..
26	241787	GASKET	1	1
27	18590	CAPSCREW-1/2 UNC X 2 1/2	1	..
28	15158	WASHER-1/2	1	1
29	139	PIN-ROD END	1	1
30	15212	PIN-3/32 X 3/4	1	1
31	303946	GASKET	2	2
32	16830	CAPSCREW-1/2 UNC X 1 1/4	..	1

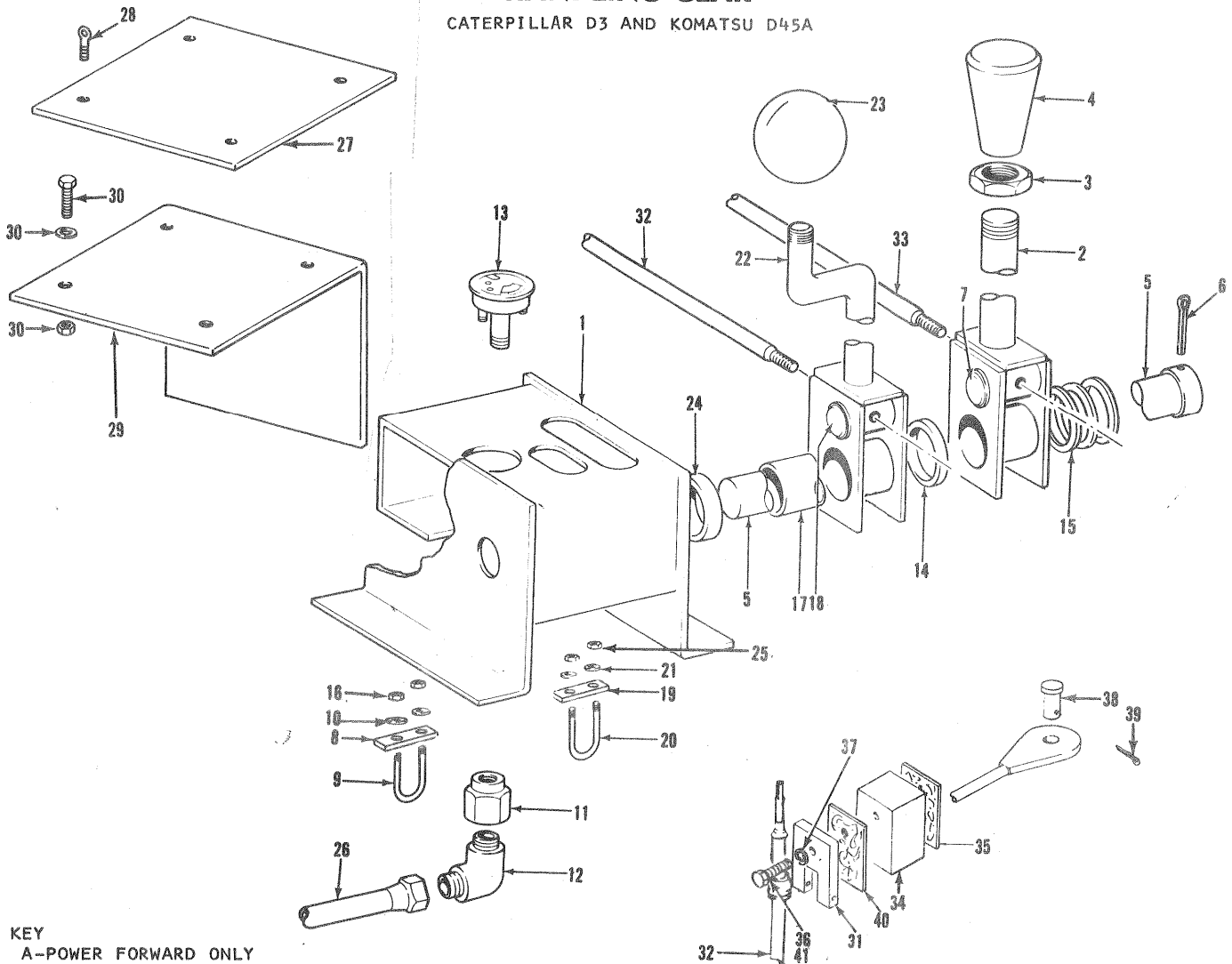
+FIAT ALLIS 8B & FL-9 ONLY
&FIAT ALLIS 10C & FL-10C ONLY
NOTE: PFR ILLUSTRATED

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

HANDLING GEAR

CATERPILLAR D3 AND KOMATSU D45A

**KEY**

A-POWER FORWARD ONLY

B-POWER FORWARD AND REVERSE

REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.	
			A	B
	261128	HANDLEVER	..	1
	261131	HANDLEVER	1	..
1	261127	HOUSING	1	1
2	276036	LEVER	1	1
3	15030	NUT-5/8 UNF	1	1
4	196469	KNOB	1	1
5	276041	PIN	1	1
6	15225	PIN-1/8 X 1 1/2	1	1
7	196128	PIN	1	1
8	196130	SPACER	2	2
9	196129	BOLT-U	1	1
10	15155	WASHER-5/16	2	2
11	14345	FITTING	1	1
12	14501	FITTING	1	1
13	192407	GAUGE-OIL PRESSURE	1	1
14	391016	WASHER	1	1
15	15135	WASHER-1/2	3	3
16	15055	NUT-5/16 UNC	2	2
17	271748	SPACER	1	..
17	271747	SPACER	..	1
18	196123	PIN	..	1
19	196130	SPACER	..	2
20	196129	BOLT-U	..	1
21	15155	WASHER-5/16	..	2
22	276037	LEVER	..	1
23	243189	KNOB	..	1

REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.	
			A	B
24	15135	WASHER-1/2	..	3
25	15055	NUT-5/16 UNC	..	2
26	205006	HOSE-OIL PRESSURE	1	1
27	+ 265409	PLATE	1	1
28	+ 270491	BOLT-EYE	4	4
29	% 266833	PLATE	1	1
30	% 16598	CAPSCREW-3/8 UNC X 7/8	4	4
30	% 15156	WASHER-3/8	4	4
30	% 15056	NUT-3/8 UNC	4	4
31	264063	PLATE	1	..
32	% 303942	CABLE-FREESPOOL	..	1
32	+ 303943	CABLE-FREESPOOL	..	1
33	303941	CABLE-CONTROL	1	1
34	243181	SPACER	1	1
35	241787	GASKET	1	1
36	18590	CAPSCREW-1/2 UNC X 2 1/2	1	1
37	15158	WASHER-1/2	2	2
38	139	PIN-ROD END	1	1
39	15212	PIN-3/32 X 3/4	1	1
40	303946	GASKET	2	2
41	16830	CAPSCREW-1/2 UNC X 1 1/4	1	1

+KOMATSU D45A ONLY

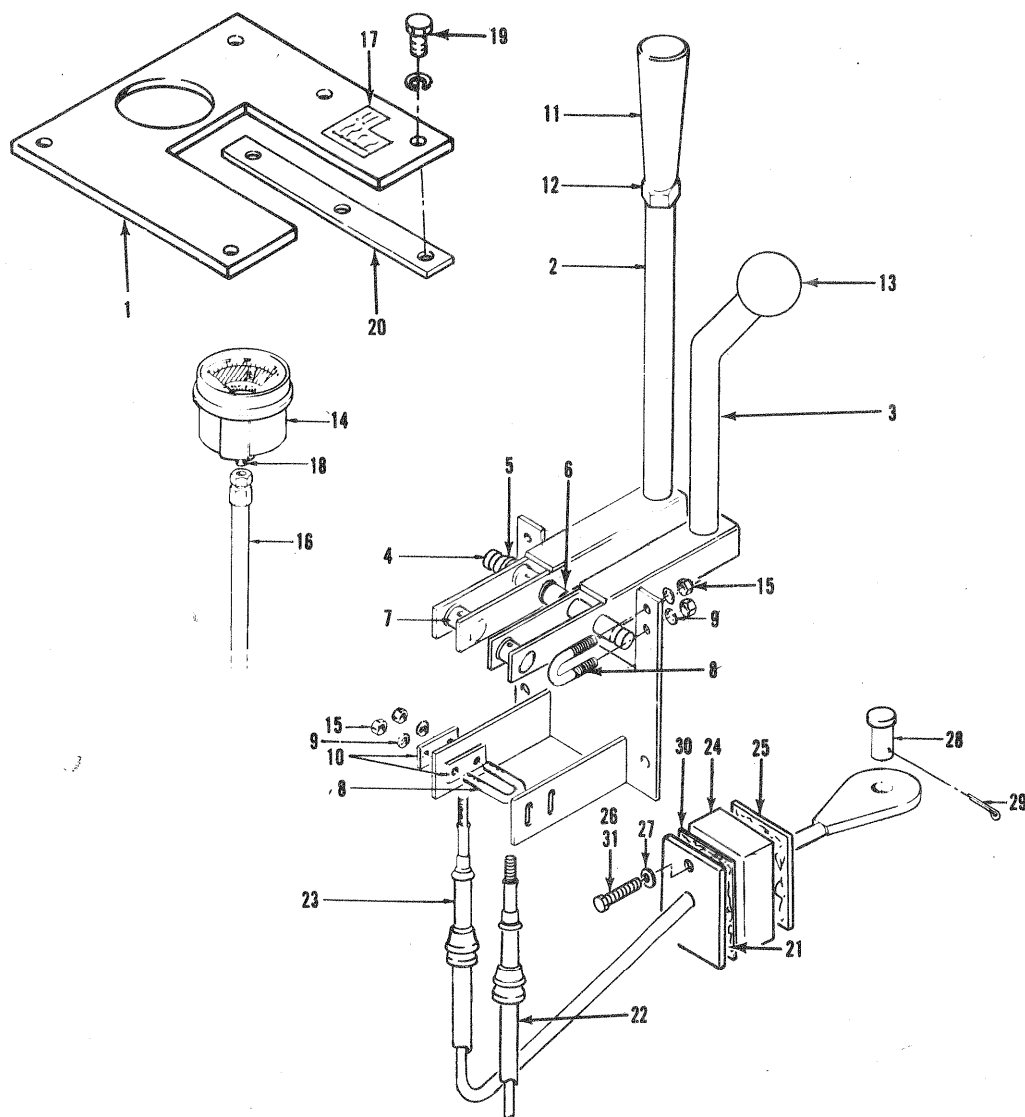
%CATERPILLAR D3 ONLY

NOTE: PFR ILLUSTRATED

HYSTER COMPANYPARTS OPERATIONS
Danville, Illinois 61832

HANDLING GEAR

MASSY FERGUSON D400C

**KEY**

A-POWER FORWARD ONLY

B-POWER FORWARD AND REVERSE

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
	287045	HANDLEVER	..	1
	287519	HANDLEVER	1	..
1	287046	BRACKET	1	1
2	276031	LEVER	1	1
3	276032	LEVER	..	1
4	276081	PIN	1	1
5	15135	WASHER-1/2	5	4
6	77418	SPACER	..	1
6	271747	SPACER	1	..
7	196128	PIN	1	2
8	196129	BOLT-U	3	4
9	15155	WASHER-5/16	6	8
10	196130	SPACER	2	4
11	196469	KNOB	1	1
12	15030	NUT-5/8 UNF	1	1
13	243189	KNOB	..	1
14	192407	GAUGE-OIL PRESSURE	1	1
15	15055	NUT-5/16 UNC	6	8
16	205004	HOSE-OIL PRESSURE	1	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
	271731	DECAL-HANDLEVER	..	1
	271733	DECAL-HANDLEVER	1	..
	14712	FITTING	1	1
17	287503	CAPSCREW -METRIC	4	4
19	15157	LOCKWASHER-7/16	4	4
20	287502	SPACER	1	1
21	264063	PLATE	1	..
22	303940	CABLE-FREESPOOL	..	1
23	303938	CABLE-CONTROL	1	1
24	243181	SPACER	1	1
25	241787	GASKET	1	1
26	18590	CAPSCREW-1/2 UNC X 2 1/2	1	1
27	15158	WASHER-1/2	2	2
28	139	PIN-ROD END	1	1
29	15212	PIN-3/32 X 3/4	1	1
30	303946	GASKET	2	2
31	16830	CAPSCREW-1/2 UNC X 1 1/4	1	1

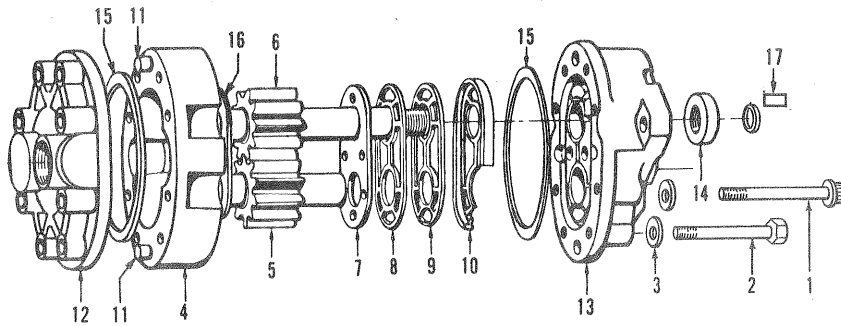
NOTE: PFR ILLUSTRATED

HYSTER COMPANY

PARTS OPERATIONS

Danville, Illinois 61832

HYDRAULIC PUMP



KEY

A-FOR CCW ROTATION-REFER TO A04 FOR ROTATION
 B-FOR CW ROTATION-REFER TO A04 FOR ROTATION

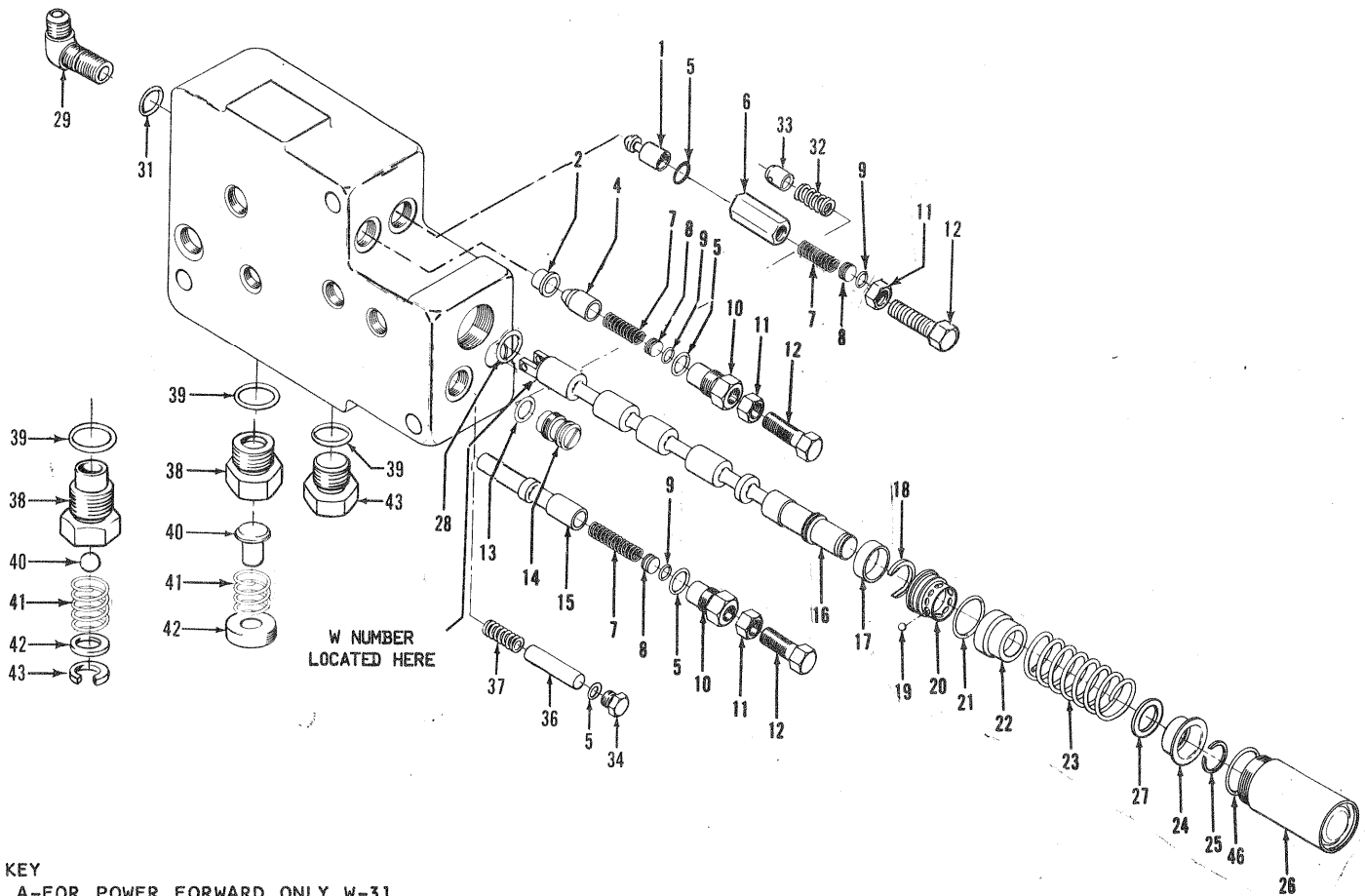
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
	246761	PUMP	1	..
	219239	PUMP	..	1
1	243335	CAPSCREW-2 3/4	2	2
2	243336	CAPSCREW-2 3/4	6	6
3	243342	WASHER-FLAT	8	8
4	241424	CENTER SECTION	1	1
5	243120	GEAR-DRIVEN	1	1
5	243123	SEAT-VALVE	1	1
5	243124	VALVE	1	1
5	243121	SPRING	1	1
5	243122	RING-RETAINER	2	2
5	241421	SNAP RING	1	1
6	243331	GEAR-DRIVE	1	1
6	243332	KEY-3/16 X 3/4	1	1
	6	243333	RING-RETAINING	2 2
	7	* 243340	PLATE-WEAR	1 1
	8	* 243339	SHIELD-HEAT	1 1
	9	* 243338	GASKET	1 1
	10	* 243337	SEAL-V	1 1
	11	241423	PIN-DOWEL 1 3/4	2 2
	12	243119	COVER-BACK	1 1
	13	243327	COVER-FRONT	1 1
	13	.....	BRG-SHORT DRIVE GEAR	1 1
	13	.....	BRG-LONG DRIVEN GEAR	1 1
	14	* 243330	SEAL-SHAFT	1 1
	15	* 241422	O-RING	2 2
	16	* 243343	PLATE-THRUST	1 1
	17	243341	KEY-5/32 X 5/8	1 1

* 301978

SERVICE KIT

CONTROL VALVE

LAST USED ON S/N A121 -1933



KEY

A-FOR POWER FORWARD ONLY W-31

B-FOR POWER FORWARD AND REVERSE W-20

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.		REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B				A	B
	241784	CONTROL VALVE	1	..	25	196002	SNAP RING	1	1
	219186	CONTROL VALVE	..	1	26	196009	CAP	1	1
1	196006	FORWARD MODULATING SPOOL	1	1	27	225061	SPACER	1	1
4	195991	PLUNGER-RELIEF	1	1	28	60836	O-RING	1	1
5	16484	O-RING	3	3	29	16560	ELBOW	1	1
6	228445	PLUG	1	1	31	16485	O-RING	1	1
7	195992	SPRING-RELIEF	2	3	32	219184	SPRING	1	1
8	195993	O-RING	2	3	33	219185	SPOOL	1	1
9	15860	O-RING	2	3	34	14595	PLUG	1	..
10	196004	FTG-SPECIAL	1	2	36	243193	INSERT-SPACER	1	..
11	15027	NUT-JAM 7/16 UNF	2	3	37	29627	SPRING	1	..
12	195995	CAPSCREW-SPECIAL	2	3	38	226450	VALVE-LUBE	1	1
13	118389	O-RING	1	1	38	* 246774	VALVE-LUBE	1	1
14	233492	CAP	1	1	38	226449	BODY-VALVE	1	1
15	196003	SPOOL-REVERSE MODULATING	..	1	39	16487	O-RING	2	2
16	226442	SPOOL W-31	1	..	40	226448	POPPET	1	1
16	219182	SPOOL W-20	..	1	40	* 6348	BALL-STEEL	1	1
17	219203	RING	1	..	41	226447	SPRING	1	1
17	195999	RING	..	1	41	* 246773	SPRING	1	1
18	196000	RING	..	1	42	226446	CAP	1	1
19	170987	BALL-STEEL	8	8	42	* 246772	WASHER	1	1
20	195997	RETAINER-BALL DETENT	1	1	43	14604	PLUG	..	1
21	118365	O-RING	1	1	43	* 171862	SNAP RING	1	1
22	238992	SPACER-SELECTION	1	1	46	39376	O-RING	1	1
23	166911	SPRING	1	1					
24	166905	SPACER-CENTERING	1	1					

*LAST USED ON S/N A121 -1837

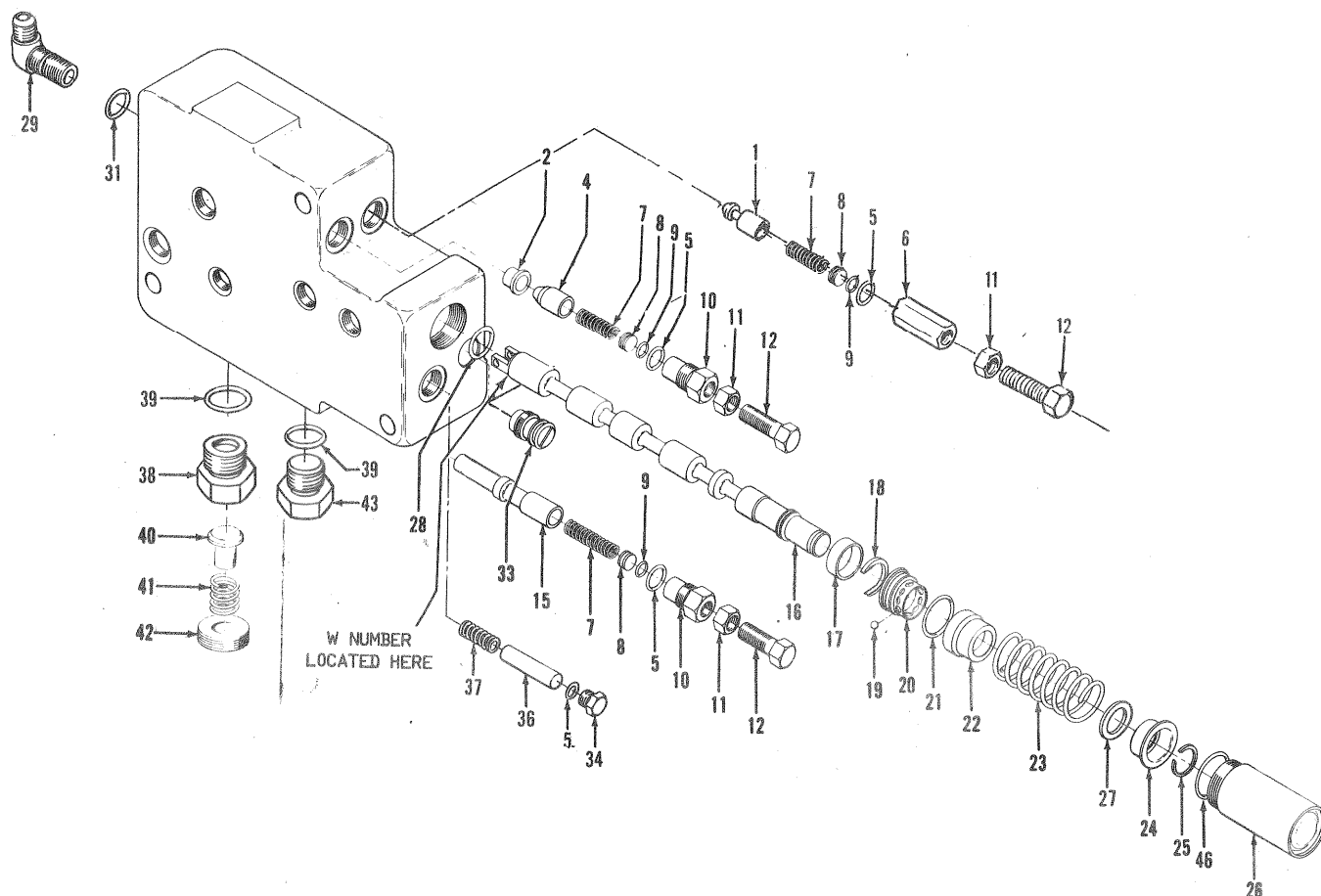
HYSTER COMPANY

PARTS OPERATIONS

Danville, Illinois 61832

CONTROL VALVE

FIRST USED ON S/N A121 -1934



KEY

A-FOR POWER FORWARD ONLY W-32
 B-FOR POWER FORWARD AND REVERSE W-22

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	A B
	+ 262090	CONTROL VALVE	1 ..
	+ 262091	CONTROL VALVE	.. 1
	% 282137	CONTROL VALVE	1 ..
	% 282140	CONTROL VALVE	.. 1
1	196006	FORWARD MODULATING SPOOL	1 1
2	195990	SEAT-RELIEF	1 1
4	195991	PLUNGER-RELIEF	1 1
5	16484	O-RING	3 3
6	226445	FTG-SPECIAL	1 1
7	195992	SPRING-RELIEF	2 3
8	195993	PLUG	2 3
9	15860	O-RING	2 3
10	196004	FITTING-SPECIAL	1 2
11	15027	NUT-JAM 7/16 UNF	2 3
12	195995	CAPSCREW-SPECIAL	2 3
15	196003	SPOOL-REVERSE MODULATING	.. 1
16	+ 260718	SPOOL W-32	1 ..
16	+ 258217	SPOOL W-22	.. 1
17	+ 260719	RING	1 ..
17	+ 258220	RING	.. 1
18	196000	RING	.. 1
19	170987	BALL-STEEL	8 8
20	195997	RETAINER-BALL DETENT	.. 1
20	271736	RETAINER-BALL DETENT	1 ..

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	A B
21	118365	O-RING	1 1
22	238992	SPACER-SELECTOR	1 1
23	166911	SPRING	1 1
24	166905	SPACER-CENTERING	1 1
25	196002	SNAP RING	1 1
26	196009	CAP	1 1
27	225061	SPACER	1 ..
28	+ 118361	O-RING	1 1
29	16560	ELBOW	1 1
31	16485	O-RING	1 1
33	15314	CAP	1 1
34	+ 14595	PLUG	1 ..
36	243193	INSERT-SPACER	1 ..
37	29627	SPRING	1 ..
38	226450	VALVE	1 1
38	226449	BODY-VALVE	1 1
39	16487	O-RING	2 2
40	226448	POPPET	1 1
41	226447	SPRING	1 1
42	226446	CAP	1 1
43	14604	PLUG	.. 1
46	39376	O-RING	1 1

*FIRST USED ON S/N A121 -1934

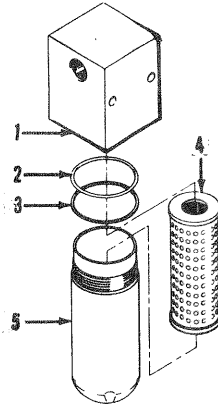
*LAST USED ON S/N A121 -1933

HYSTER COMPANY

PARTS OPERATIONS
 Danville, Illinois 61832

HYDRAULIC FILTER

LAST USED ON S/N A121 -1867



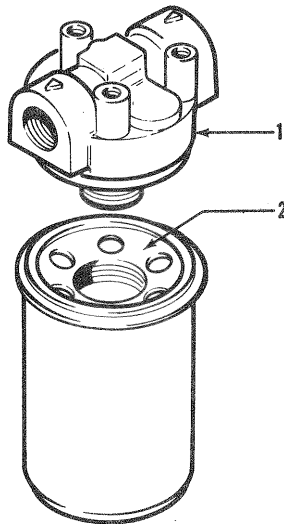
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
	147461	FILTER	1
1	.....	HEAD-FILTER	1
2	149297	O-RING	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
3	149298	RING-BACK UP	1
4	147463	ELEMENT	1
5	.....	CASE	1

HYDRAULIC FILTER

LAST USED ON S/N A121-2199

PARTS SERVICE GRAM	
Item	Gram
WSA	AO-Z-21
	AO-Z-19R1



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
	277489	FILTER	1
1	.....	HEAD	1

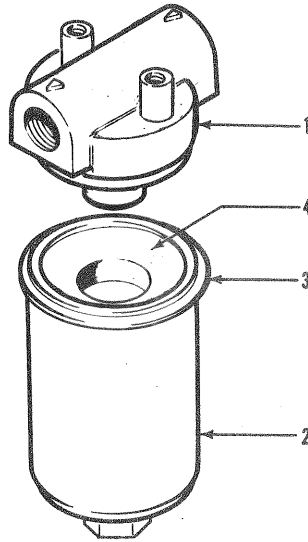
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
2	277490	ELEMENT-FILTER	1

HYSTER COMPANYPARTS OPERATIONS
Danville, Illinois 61832

HYDRAULIC FILTER

FIRST USED ON S/N A121-2200

PARTS SERVICE GRAM	
Item	Gram
W5A	A0-Z-19R1



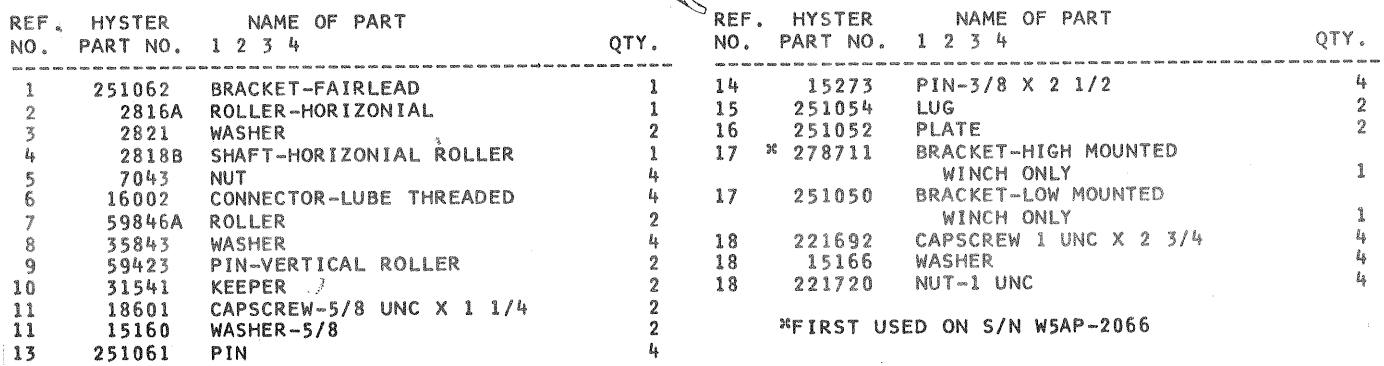
REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.
		1	2	3	4	
1	279388	FILTER				1
2	.....	HEAD-FILTER CASE				1

REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.
		1	2	3	4	
3	280590	O-RING				1
4	280591	ELEMENT				1

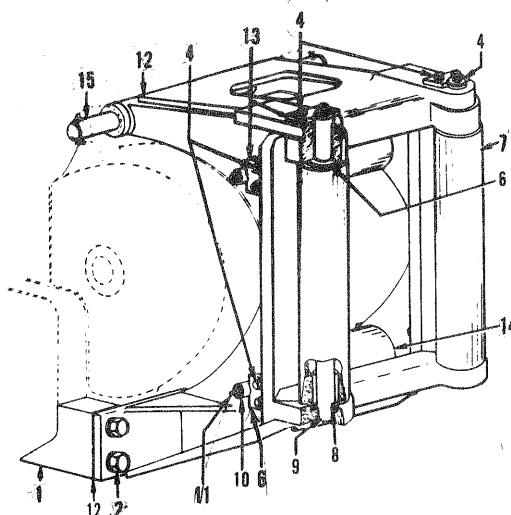
OPTIONAL EQUIPMENT

DRAWBAR.....1F05
3-ROLLER ARCH.....1F03
4-ROLLER ARCH.....1F03
3-ROLL FAIRLEAD.....1F04
4-ROLL FAIRLEAD.....1F04

USE HYSTER APPROVED PARTS... *it pays*

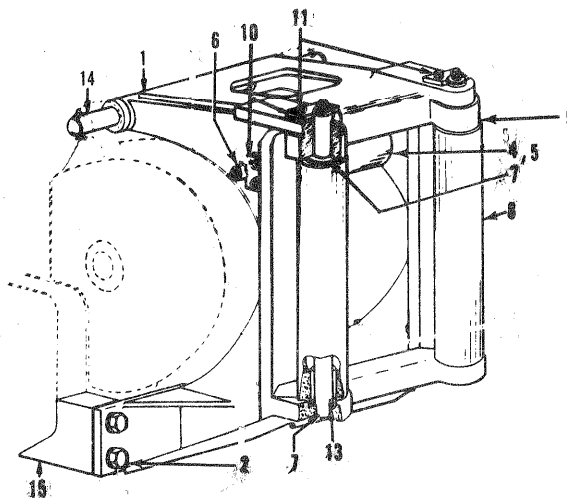


4-ROLL FAIRLEAD



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	.....	FAIRLEAD	1	8	308408	WASHER	4
2	248798	BLOCK-BOLTING	2	9	91775	SHAFT-VERTICAL	2
3	16831	CPSCR-3/4 UNF X 1 3/4	4	10	16001	CONNECTOR	8
4	15162	WASHER-3/4	4	11	248796	SHAFT HORIZONTAL	2
5	15511	CAPSCREW-1/2 UNF X 1	8	12	227604	FRAME	1
6	15158	WASHER-1/2	8	13	92720	WASHER	4
7	93166	KEEPER	4	14	92212A	ROLLER	2
	59576A	ROLLER	2	15	250467	SPACER	2

3-ROLL FAIRLEAD



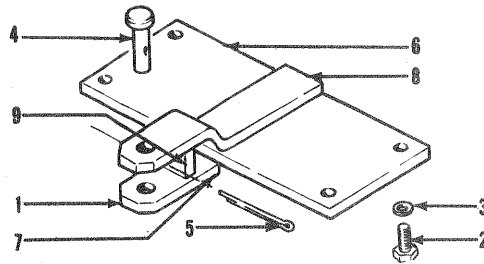
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4				1 2 3 4	
1	.....	FAIRLEAD	1	8	59846A	ROLLER	2
2	255092	FRAME-FAIRLEAD	1	9	308408	WASHER	4
3	18621	CPSCR-3/4 UNC X 1 3/4	4	10	93166	KEEPER	3
4	15162	WASHER-3/4	4	11	16830	CPSCR-1/2 UNC X 1 1/4	6
5	92212A	ROLLER	1	12	15158	WASHER-1/2	6
6	92720	WASHER	2	13	255076	SHAFT	2
7	248796	SHAFT HORIZONTAL	1	14	226649	SPACER	2
	16001	CONNECTOR	4	15	225075	MOUNTING BLOCK	2

HYSTER COMPANY

PARTS OPERATIONS

Danville, Illinois 61832

DRAWBAR



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	219231	DRAWBAR	1
2	18620	CPSCR-3/4 UNC X 1 1/2	4
3	15162	WASHER-3/4	4
4	219232	PIN-DRAWBAR	1
5	15275	PIN-3/8 X 4	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
6	219235	PLATE	1
7	219234	PLATE	1
8	219236	PLATE-FORMED	1
9	219233	BLOCK	1

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

NUMERICAL INDEX

139	-	219085.....	G03
219087	-	264046.....	G04
264047	-	308408.....	G05

USE HYSTER APPROVED PARTS... *it pays*

NUMERICAL INDEX

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139	1D12	29	15212	1C13	17	18093	1C13	32	59846A	1F03	2	178955	1C12	8
2816A	1F03	2	15216	1C07	10	18404	1806	8	60836	1E02	28	179037	1C12	10
2818B	1F03	4	15225	1D11	6	18423	1C13	32	62449	1D08	27	179041	1C12	27
2821	1F03	3	15256	1803	12	18497	1C13	34	62499	1D10	27	182209	1C04	18
6348	1C13	26	15273	1F03	14	18536	1D04	3	63105	1C11	9	184484	1C09	8
7043	1F03	5	15275	1F05	5	18537	1D08	3	63111	1D06	88	184926	1C12	12
9033	06	1	15302	1C05	32	18558	1D04	55	67355	1C07	27	187878	1D10	49
9554	06	14	15303	1803	16	18586	1C05	27	67551	06	4	192407	1D11	13
9563	06	15	15306	1C04	28	18588	1C09	15	68370	1D04	20	194090	1D04	2
12828	1808	13	15314	1E03	33	18590	1D08	28	69259	1809	14	195322	1C12	28
12833	1D08	44	15316	1803	23	18601	1F03	7	69815	1806	16	195990	1E03	2
12843	1D10	7	15472	1D10	93	18620	1F05	2	77418	1D12	5	195991	1E02	4
12892	1C13	18	15483	1C09	18	18621	1F04	2	83846	1D04	44	195992	1E02	7
12916	1C09	24	15511	1F04	4	18622	1F03	12	83857	1D04	51	195993	1E02	8
12956	1C12	5	15860	1C11	11	18624	1F03	9	87287	1C10	4	195995	1E02	12
12963	1C07	18	15880	1807	11	18645	1804	3	90937	1C06	8	195997	1E02	20
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14500	1D04	19	15898	1C05	20	18670	1805	6	92720	1F04	5	196082	1E02	25
14501	1D04	7	15962	1808	14	18869	1C06	37	92871	1C12	26	196083	1E02	15
14516	1D10	93	16001	1F04	10	18974	1C07	34	93166	1F04	6	196084	1E02	10
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15008	1C07	48	16541	1D04	63	39376	1E02	46	139720	1D11	39	198385	1D04	13
15014	1810	7	16543	1D08	44	39381	1C04	32	140288	1D04	67	201776	1D04	11
15016	1C06	35	16559	1D04	62	39384	1C09	17	144577	1809	9	205004	1D11	39
15027	1E02	11	16560	1E02	29	39679	1809	8	145641	1D04	3	205086	1D13	26
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15056	1D11	43	16569	1D04	50	39747	1C04	20	147461	1E04		219055	1C10	1
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