

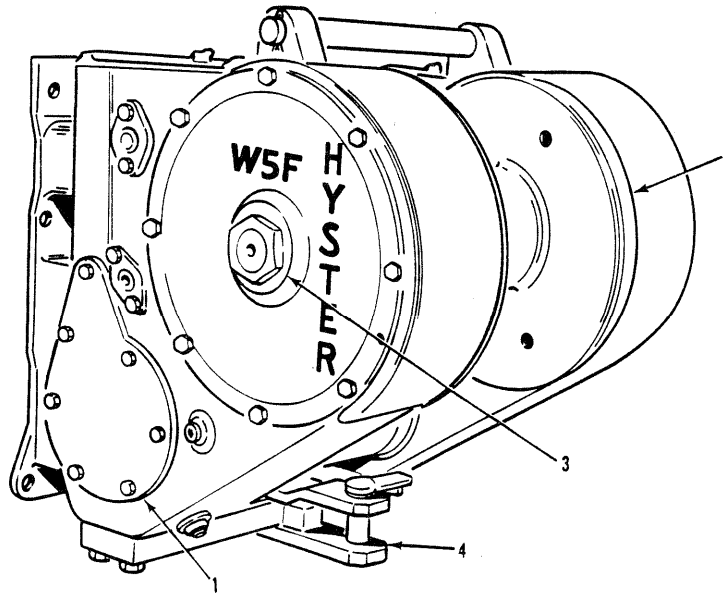
Allied Systems
COMPANY
WINCH DIVISION

PARTS MANUAL

**TOWING WINCH
W5F / D4F**

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INDEX-ILLUSTRATED



1

2

3

4

5

MAKE	MODEL	SERIAL NUMBERS
CATERPILLAR	D4DD	27X
CATERPILLAR	D4DD	78A6978 AND UP AND 82J
CATERPILLAR	D4PS	83J1-3552 47H1-1785
		59J1-2352 AND 7R1-925
CATERPILLAR	941	80H
CATERPILLAR	951	86J
CATERPILLAR	955	61H AND 85J
CATERPILLAR	955	13X
FIAT ALLIS	10 B/C	ALL
KOMATSU	D50A-16 AND D50S-16	ALL

REF	ITEM	PAGE
1	FRAME/COVERS/PARTS-MOUNTING.....	1B02
2	GEARS/SHAFTS.....	1C02
3	BRAKE/SHIFTER.....	1D02
4	EQUIPMENT-OPTIONAL.....	1F02
5	INDEX-NUMERICAL.....	G02

INDEX-ALPHABETICAL

BRAKE-AUTOMATIC.....1F04	PARTS-MOUNTING.....1B05-1B09
DRAWBAR.....1F03	SHAFT-BRAKE.....1C06
FAIRLEAD.....1F05	SHAFT-DRUM.....1C07
FRAME/COVERS.....1B03-1B04	SHAFT-INTERMDIATE GEAR.....1C08
	SHAFT-PTO.....1C03-1C05
GEAR-HANDLING.....1D03-1D09	
LINKAGE-BRAKE.....1D12	
LINKAGE-SHIFTER.....1D10-1D11	
LOCK-CABLE.....1C09	

IDENTIFICATION - UNIT **HYSTER WINCH SERIAL NUMBER** **NAMEPLATE DATA FOR TRACTOR** **AND SKIDDER MOUNTINGS**

EXAMPLE: W5F P (A) 2 (B) F (C) 1555 C51
 WINCH MODEL DRIVE GEAR RATIO OPTIONS SEQUENCE NO TRACTOR

(A) TYPE P - POWER CONTROLLED (C) INTERNAL OPTIONS F - FREESPOOL B - POWER FORWARD AND
 X - DIRECT DRIVE (GEAR DRIVE) N - NON-FREESPOOL REVERSE WITH
 A - POWER FORWARD ONLY FREESPOOL (PFR)
 WITH FREESPOOL
 (PFO)

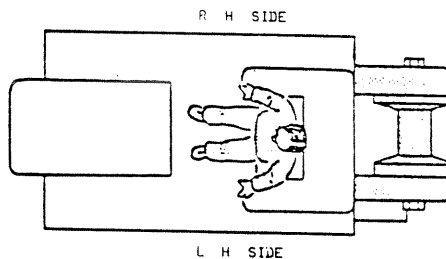
(B) GEAR RATIOS
 **INDICATES
 STANDARD GEAR
 RATIO FOR EACH
 MOUNTING

CODE	W5F
1	24.2
2	72.6

WINCH MODEL	CODE	TRACTOR MAKE MODEL AND STARTING TRACTOR S/N WHERE APPLICABLE										
		A	C	D	E	F	G	H	K	M	R	T
		FIAT- ALLIS	CAT	TIMBER- JACK	JOHN DEERE	FMC	TEREX	IHC	KOMATSU	MF	CASE	CAN- CAR
W5F/ D4F	21		D4DD**1 27X						D50A-16 **1			
	22	10B/C **2	D4DD**1 (9)						D50S-16 **1			
	23		D4PS**1 (10)									
	24		941**1 80H									
	25		951**1 86J									
	26		955**1 61H, 85J									
	27		955**1 13X									

NOTES (9) D4DD S/N 78A6978 UP 82J
 (10) D4PS S/N 83J1-3552 47H1-1785 59J1-2352 7R1-925

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

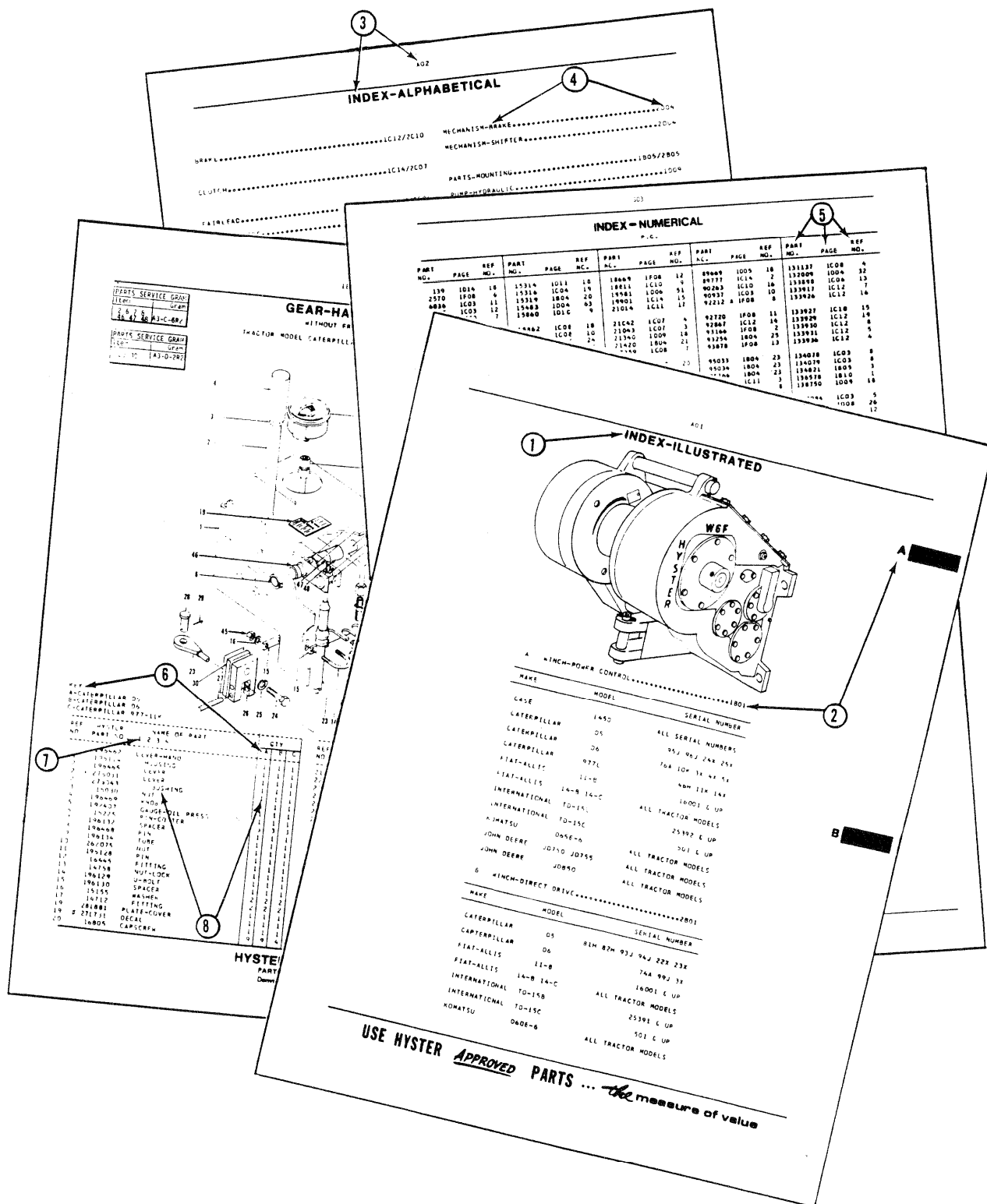


CAUTION
 Never Attempt To Clean Oil Or Adjust A Machine
 While It Is In Motion

HOW TO USE THE ILLUSTRATED PARTS MANUAL

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

It also includes all parts peculiar to units built in overseas plants. These parts are indicated by keys, symbols and footnotes.



When The Part Number And Next Higher Assembly Is Not Known:

1. **USE:** Determine the function and application of the part required. Turn to the illustrated index page immediately behind the front cover, and select the most appropriate area.
2. Line up the black arrow containing the appropriate reference number, with the black tab on the division index page with the same reference number. Use the division 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 Not Known And Next Higher Assembly Is Known:

3. Determine the assembly the required part is used on. Turn to the alphabetical index immediately following the illustrated index.
4. Locate the assembly the required part is used on and turn to the page indicated for that assembly. Proceed then to locate the part on the assembly breakdown page.

When The Part Number Is Known:

5. Use the numerical index to find the part number. Turn to the page listed and locate the part as indicated by the reference number.

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

6. Keys are used to show effective serial numbers, two or more similar assemblies, RH and LH assembly parts, etc. Select the appropriate key, "A", "B", "C" or "D" and the corresponding quantity column to find the required part.
7. 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.
8. Quantities shown are for one assembly. Note that three assemblies are shown, but the quantities of the sub-parts are indicated as one and two. This means one and two per assembly.

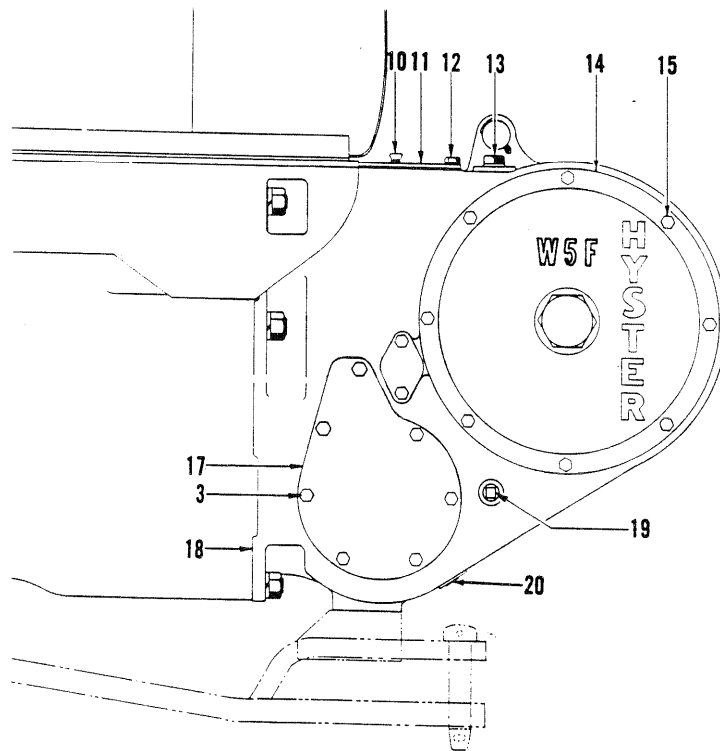
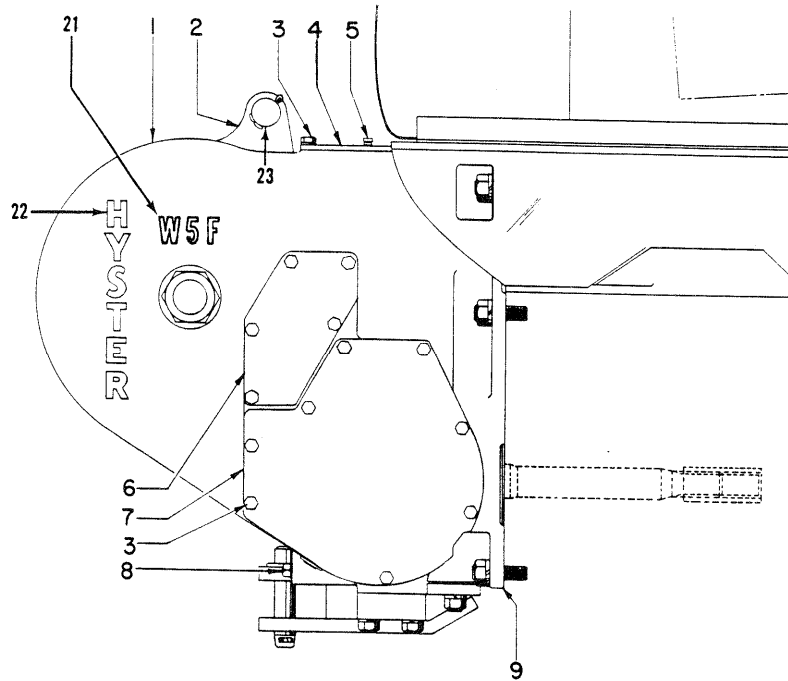
ORDERING PARTS: When ordering replacement parts, give the unit serial number, part number, name of part and quantity required.

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

FRAME/COVERS/PARTS-MOUNTING

FRAME/COVERS.....1B03-1B04
PARTS-MOUNTING.....1B05-1B09

FRAME/COVERS



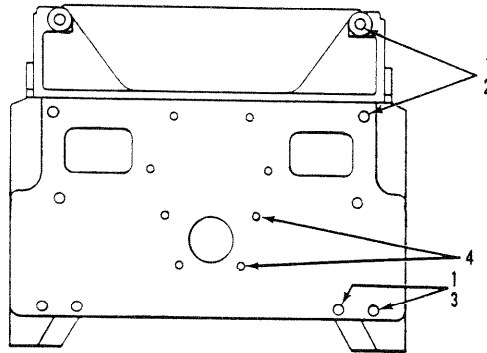
FRAME/COVERS

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	178924	FRAME-WINCH	1	14	178957	COVER	1
2	93926	EAR-ROD	2	14 +	92848	GASKET	1
3	178403	CAPSCREW	11	15	178403	CAPSCREW	8
3	15158	WASHER	11	15	15158	WASHER	8
4	242286	COVER-RH	1	17	178980	COVER	1
4	178397	CAPSCREW	2	17 +	178981	GASKET	1
4 +	178966	GASKET	2	18 +	230772	SPACER-UPPER	8
5	21420	PLUG-BREATHER	1	19	15315	FITTING	2
6	92894	COVER-BRAKE	1	20	15290	FITTING	1
6 +	92895	GASKET-BRAKE	1	21 @	230553	DECAL	1
7	92892	COVER-BRAKE	1	21 #	226434	DECAL	1
7 +	92893	GASKET-BRAKE	1	22	230549	DECAL-HYSTER	1
8	15315	FITTING	1	23	93927	ROD-TIE	1
9 +	230773	SPACER-LOWER	2	23	15256	PIN-COTTER	2
10	21420	PLUG-BREATHER	2	%	126952	BAR-BRACE	1
11	178963	COVER	1	%	135487	WRENCH-BOX	1
11	178397	CAPSCREW	2				
11 +	178964	GASKET	1				
12	16829	CAPSCREW	17				
12	15158	WASHER	17				
13	15317	FITTING	1				

%NOT ILLUSTRATED
@CATERPILLAR
#KOMATSU AND FIAT ALLIS
+INCLUDED IN GASKET SET 183352

PARTS-MOUNTING

CATERPILLAR 955 WITH S/N 61H AND 85J

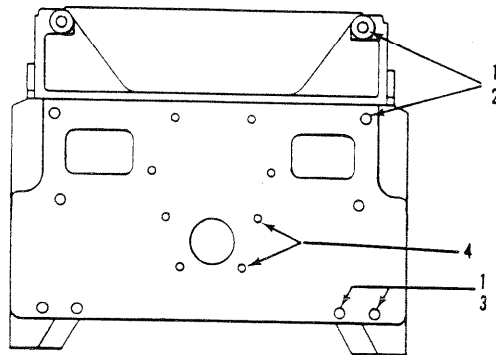


REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
1	96726	STUD	8
1	15014	NUT	8
2	15164	WASHER	4

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
3	136408	WASHER	4
4	136578	PLUG	4

PARTS-MOUNTING

CATERPILLAR 955 WITH S/N 13X

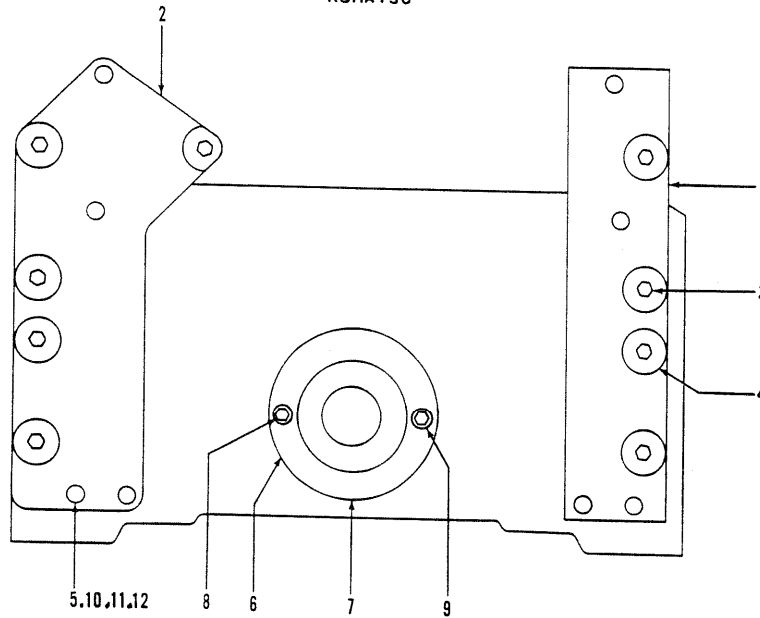


REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
1	96726	STUD	8
1	15014	NUT	8
2	15164	WASHER	4

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
3	136408	WASHER	4
4	136578	PLUG	4

PARTS-MOUNTING

KOMATSU

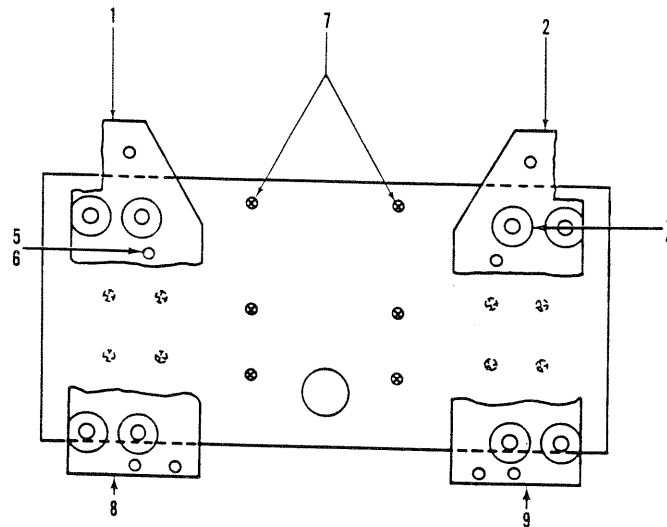


REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
1	252159	SPACER-RH	1
2	252158	SPACER-LH	1
3	225065	CAPSCREW	9
4	15166	WASHER	9
5	30758	STUD	8
6	25C997	GASKET	1

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
7	250996	ADAPTER	1
8	226437	CAPSCREW	2
9	15159	WASHER-LOCK	2
10	15014	NUT	8
11	15164	WASHER	8
12	230064	KIT-LOCTITE	1

PARTS-MOUNTING

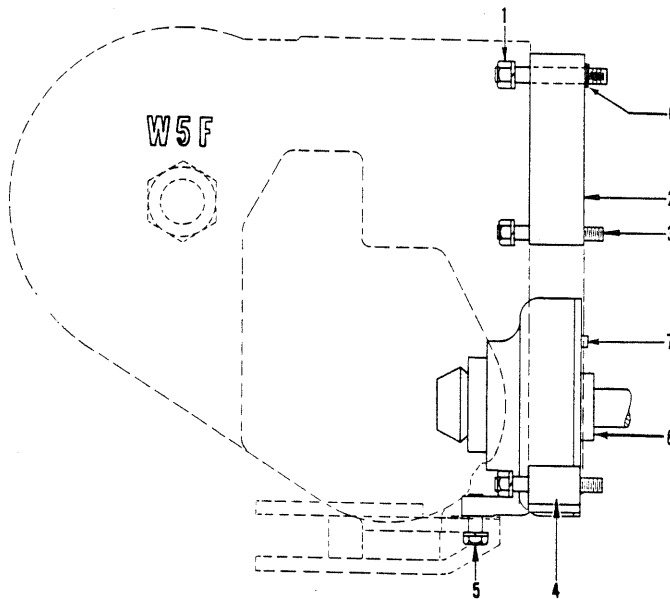
FIAT ALLIS



REF NO	HYSTER PART NO	NAME OF PART				QTY
		1	2	3	4	
1	268475	SPACER-UPPER LH				1
2	268476	SPACER-UPPER RH				1
3	226429	CAPSCREW				8
4	18402	WASHER-LOCK				8
5	96726	STUD				8

REF NO	HYSTER PART NO	NAME OF PART				QTY
		1	2	3	4	
6	53156	NUT				8
6	15164	WASHER				8
7	136578	PLUG				14
8	267524	SPACER-LOWER LH				1
9	268477	SPACER-LOWER RH				1

PARTS-MOUNTING



KEY

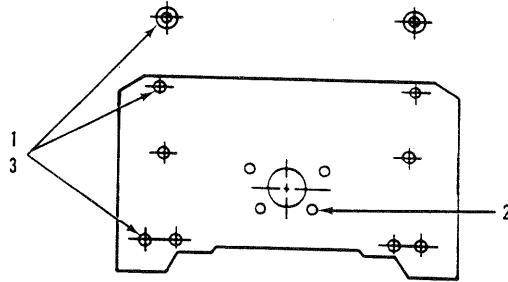
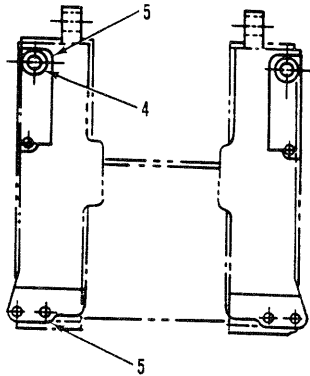
A-CATERPILLAR D4DD WITH S/N 27X LOW SPEED
 B-CATERPILLAR D4DD WITH S/N 27X STANDARD SPEED
 C-CATERPILLAR 951 AND 941

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY		
			A	B	C
1	174036	STUD	••	••	2
1	15014	NUT	2	2	4
1	136408	WASHER	2	2	4
2	96126	SPACER-UPPER	2	••	2
2	290428	SPACER-UPPER	••	2	••
3	96744	STUD	••	••	6
3	223230	STUD	8	••	••
3	290427	STUD	••	2	••
3	15014	NUT	8	8	4
3	15164	WASHER	8	8	4

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY		
			A	B	C
4	96127	SPACER-LOWER	2	••	2
4	290429	SPACER-LOWER	••	2	••
6	18000	PLUG	4	4	8
6	250833	SHIM	AR	AR	AR
6	250834	SHIM	AR	AR	AR
6	250835	SHIM	AR	AR	AR
7	223231	ADAPTER	1	••	••
7	290426	ADAPTER	••	1	••
8	15875	O-RING	••	2	••
8	79981	O-RING	••	2	••

PARTS-MOUNTING

CATERPILLAR D40D



KEY

A-STANDARD SPEED WINCH

B-LOW SPEED WINCH

REF NO	HYSTER PART NO	NAME OF PART				QTY	
		1	2	3	4	A	B
1	230774	STUD				8	••
1	223230	STUD				••	8
2	18000	PLUG				4	4
3	53156	NUT				8	8
4	250833	SHIM				AR	AR
4	250834	SHIM				AR	AR
4	250835	SHIM				AR	AR
4	+ 237979	SPACER				2	2

REF NO	HYSTER PART NO	NAME OF PART				QTY	
		1	2	3	4	A	B
5	96126	SPACER-UPPER				••	2
5	96127	SPACER-LOWER				••	2
5	# 230772	SPACER-UPPER				2	2
5	# 230773	SPACER-LOWER				2	2

+WITH ROPS

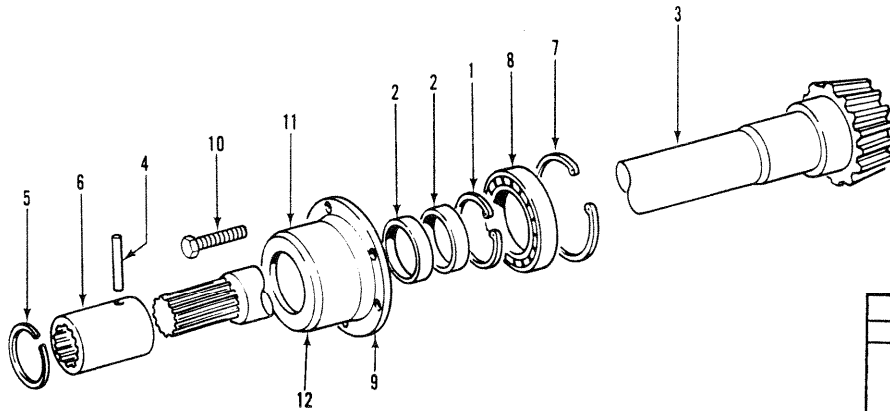
#WITHOUT ROPS

GEARS/SHAFTS

LOCK-CABLE.....1C09
SHAFT-BRAKE.....1C06
SHAFT-DRUM.....1C07
SHAFT-INTERMEDIATE GEAR.....1C08
SHAFT-PTO.....1C03-1C05

SHAFT-PTO

STANDARD SPEED WINCH



PARTS SERVICE GRAM	
Item	Gram
4, 5	A1-B-5BR2

PARTS SERVICE GRAM	
Item	Gram
10	A2-A-3

KEY

A-CATERPILLAR D4DD AND 955 WITH S/N 13X
 B-CATERPILLAR 955 S/N 61H AND 85J
 C-CATERPILLAR 941 AND 951

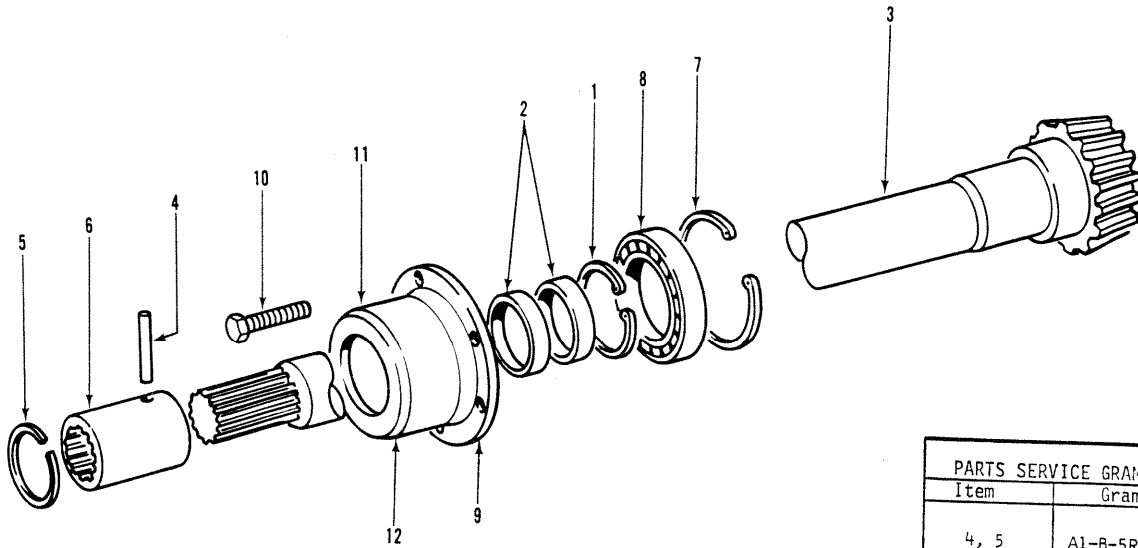
REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY		
			A	B	C
1	12917	RING-SNAP	1	1	1
2	276323	SEAL-OIL	2	2	2
3	92828	SHAFT	1	1	..
4	159915	SHAFT	..	..	1
5	9563	PIN	1	1	1
6	9554	RING-LOCK	1	1	1
6	96617 W	COUPLER	..	..	1
6	239215	COUPLER	1	..	..
6	6852	COUPLER	..	1	..
7	12919	RING-SNAP	1	1	1

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY		
			A	B	C
8	41212	BEARING	1	1	1
9	180983	SHIM-.005	AR	AR	AR
9	180984	SHIM-.007	AR	AR	AR
10	178987	CAPSCREW	6	6	6
10	67355	WIRE-LOCK	1	1	1
11	96609 W	CARRIER	..	..	1
11	230771	CARRIER	1	..	..
11	96165	CARRIER	..	1	..
12	15875	O-RING	..	1	1
12	79981	O-RING	1	..	..

SHAFT-PTO

STANDARD SPEED WINCH

KOMATSU

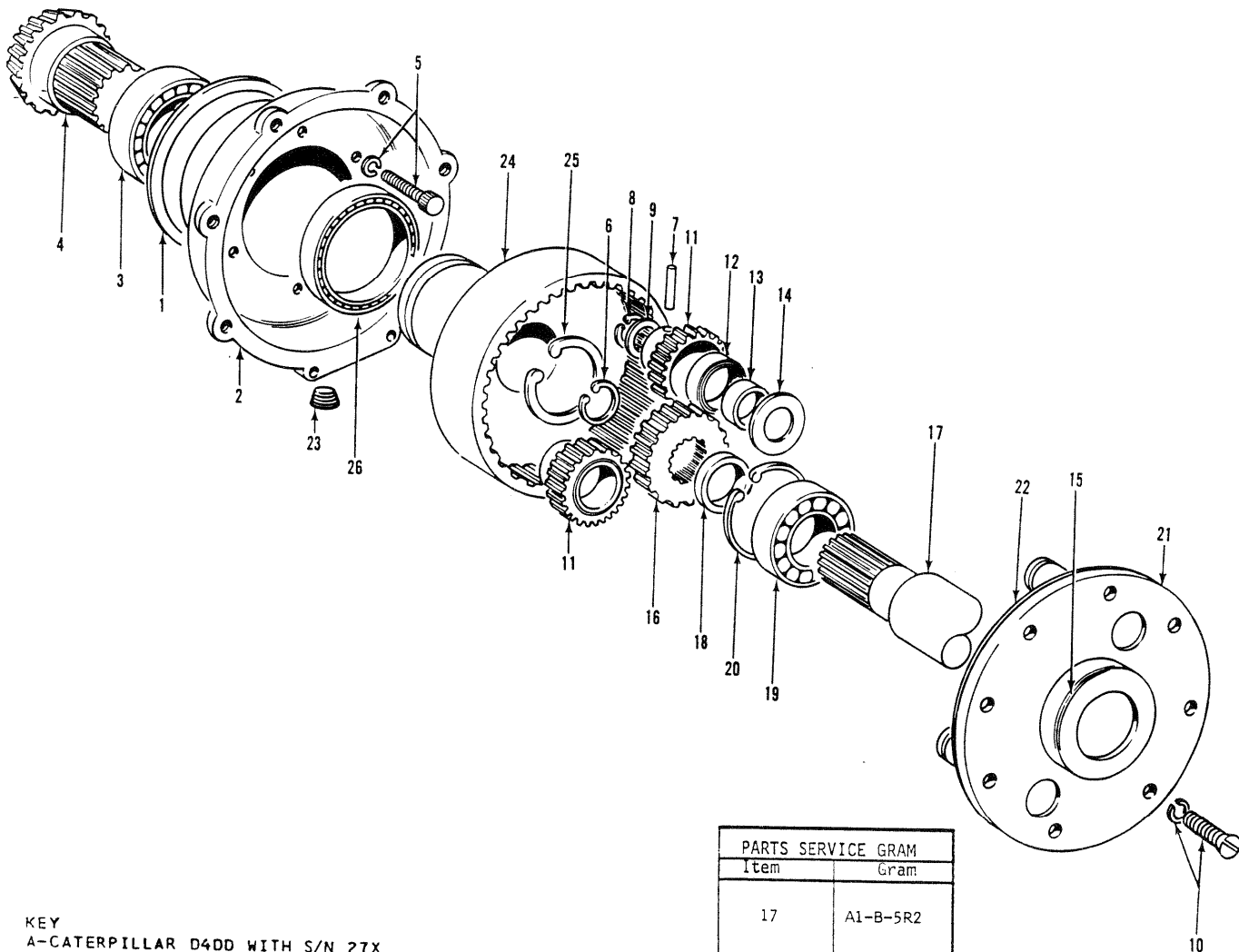


REF NO	HYSTER PART NO	NAME OF PART	QTY
		1 2 3 4	
1	12917	RING-SNAP	1
2	276323	SEAL-OIL	2
3	159915	SHAFT	1
4	9563	PIN	1
5	9554	RING-LOCK	1
6	250998	COUPLER	1
7	12919	RING-SNAP	1

REF NO	HYSTER PART NO	NAME OF PART	QTY
		1 2 3 4	
8	41212	BEARING	1
9	180983	SHIM-.005	1
9	180984	SHIM-.007	1
10	178987	CAPSCREW	6
10	67355	WIRE-LOCK	1
11	230771	CARRIER	1
12	79981	O-RING	1

SHAFT-PTO

LOW SPEED WINCH



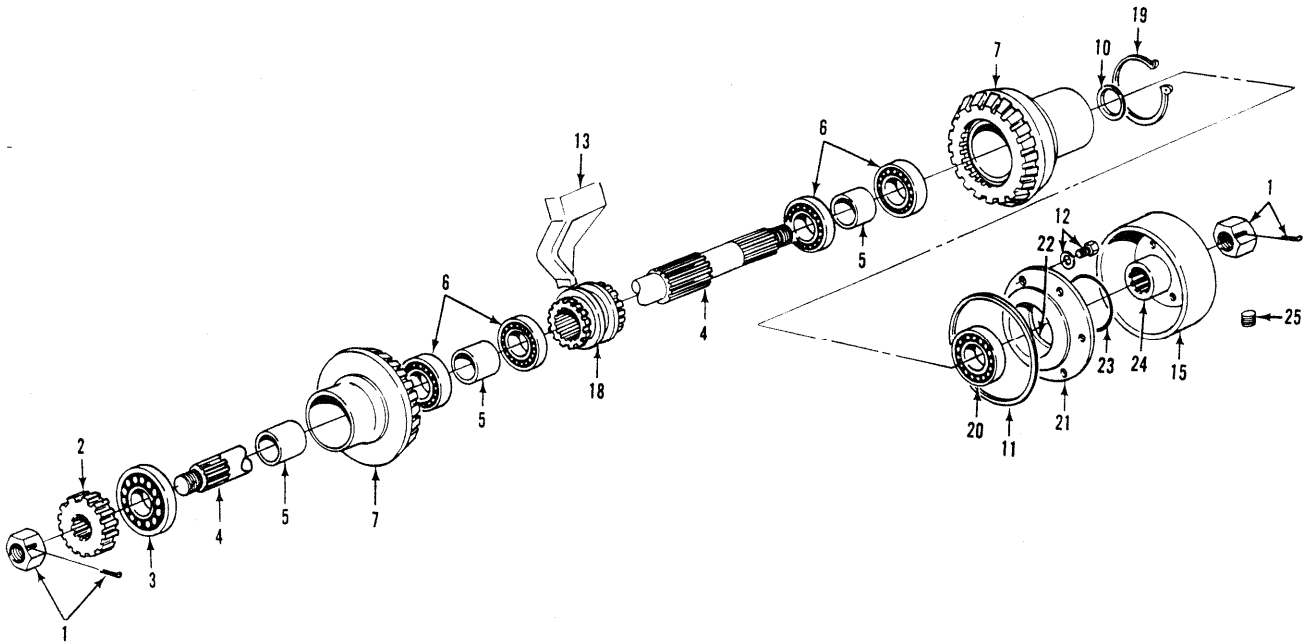
KEY
 A-CATERPILLAR D4DD WITH S/N 27X
 B-FIAT ALLIS

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY	
			A	B
1	180983	SHIM-.005	AR	AR
1	180984	SHIM-.007	AR	AR
2	178985	CASE	1	1
3	41212	BEARING	1	1
4	96099	GEAR-BEVEL	1	1
5	16356	CAPSCREW	6	6
5	177949	WASHER	6	6
6	58907	RING-SNAP	1	1
7	96112	PIN	2	2
8	58933	RING-SNAP	2	2
9	96111	WASHER	2	2
10	178397	CAPSCREW	8	8
10	15929	WASHER	8	8
11	96113	GEAR-PLANET	2	2
12	59633	BEARING	2	2
13	230409	BEARING	2	2
14	96111	WASHER	2	2
15	15875	O-RING	1	..

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY	
			A	B
16	96108	GEAR-SUN	1	1
17	299006	SHAFT-PTO	1	..
17	250479	SHAFT-PTO	..	1
17	9563	PIN	1	..
17	9554	RING-LOCK	1	..
17	290425	COUPLER	1	..
18	96107	SPACER	1	..
19	231018	BEARING-BALL	1	1
20	58927	RING-SNAP	1	1
21	96104	W COVER	1	..
21	250487	COVER	..	1
22	* 96114	GASKET	1	1
23	15314	FITTING-PIPE	1	1
24	96100	GEAR-RING	1	1
25	58954	RING-SNAP	1	1
26	44314	BEARING-BALL	1	1

*INCLUDED IN GASKET SET 183352

SHAFT-BRAKE

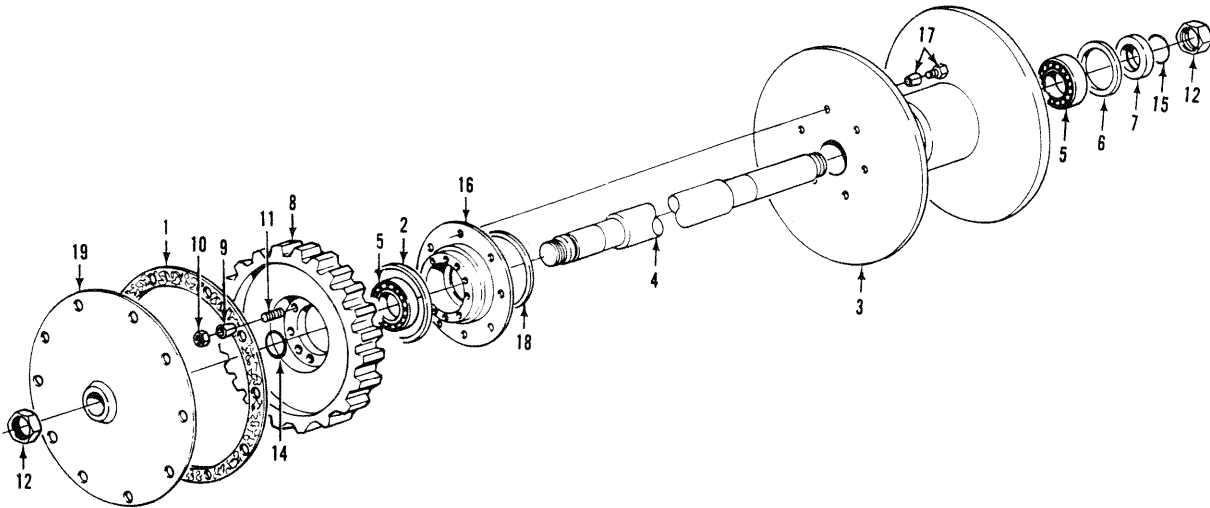


REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
1	32515	NUT-SLOTTED	2
1	15259	PIN-COTTER	2
2	92857	GEAR	1
3	124684	BEARING-BALL	1
4	92853	SHAFT-BRAKE	1
5	92856	SPACER	1
6	44310	BEARING-BALL	3
7	92855	GEAR-BEVEL	4
10	92858	SPACER	2
11	175642	SHIM-.005	1
11	175643	SHIM-.007	1
11	175644	SHIM-.020	1
12	178402	CAPSCREW	1
12	15158	WASHER	6

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
13	•••••	SHIFTER	1
		SEE 1D12	
15	92863	WHEEL-BRAKE	1
18	92854	CLUTCH-DENTAL	1
19	67551	RING-SNAP	1
20	43210	BEARING-BALL	1
21	92859	RETAINER-BRG	1
22	79387	SEAL-OIL	1
23	* 92861	O-RING	1
24	92862	SPACER-BRAKE	1
25	+ 136384	PLUG	4

*INCLUDED IN GASKET SET 183352
 +WITHOUT DRAWBAR

SHAFT-DRUM

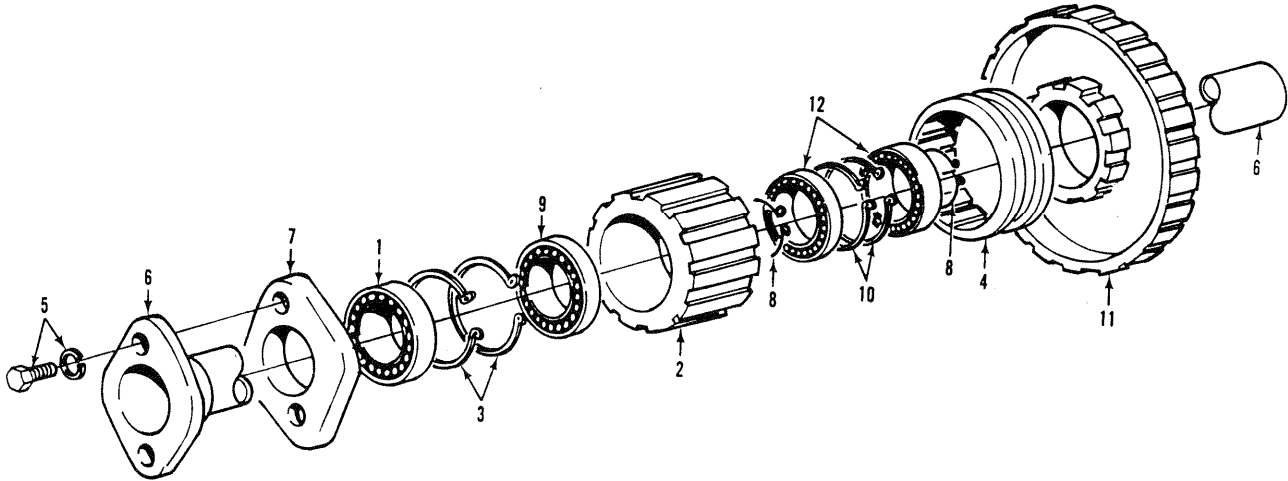


REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
1	92848	GASKET	1
2	150194	SEAL-OIL	1
3	178956	DRUM	1
3	267482	DRUM	1
3	195322	SCREW	1
4	173270	SHAFT	1
5	78023	BEARING	2
6	44490	SEAL-OIL	1
7	173269	SPACER	1
8	92840	GEAR-DRUM	1
9	53559	THIMBLE	10
10	92839	NUT-LOCK	10
11	92838	STUD	10
12	59058	NUT-SHAFT	2

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
14	59229	O-RING	1
15	59583	O-RING	1
16	178954	ADAPTER	1
17	179037	CAPSCREW	7
17	53559	THIMBLE	7
17	276484	BOLT	7
17	276483	INSERT	7
18	178955	SEAL-RING	1
19	178957	COVER	1

*INCLUDED IN GASKET SET 183352
 +7 1/2 INCH DRUM-UNDERWIND
 &8 1/2 INCH DRUM-OVERWIND

SHAFT-INTERMEDIATE GEAR

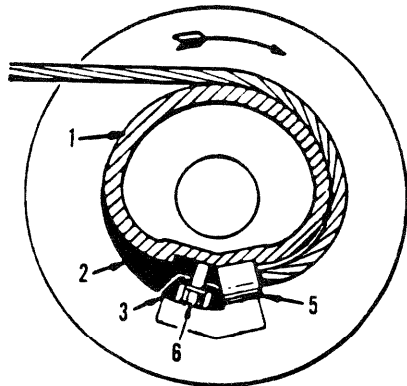


REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
1	45209	BEARING-BALL	1
2	92843	GEAR-PINION	1
3	12895	RING-SNAP	2
4	92842	CLUTCH-DENTAL	1
5	178403	CAPSCREW	2
5	15158	WASHER	2
6	180407	SHAFT	1
7	92847	GASKET	1

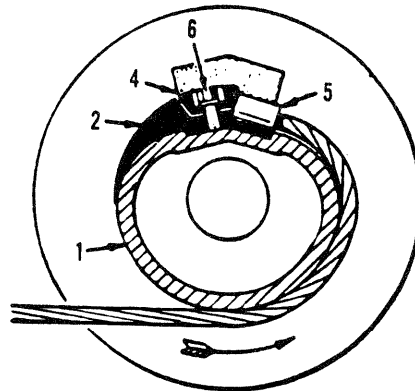
REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
8	36150	RING-SNAP	2
9	43209	BEARING-BALL	1
10	12918	RING-SNAP	2
11	92841	GEAR-INTER	1
12	44309	BEARING	2

*INCLUDED IN GASKET SET 183352

LOCK-CABLE



OVERWINDING



UNDERWINDING

REF NO	HYSTER PART NO	NAME OF PART				QTY
		1	2	3	4	
1		DRUM				1
		SEE 1C07				
2	179041	FILLER				1
3	92871	LOCK-FERRULE				1

REF NO	HYSTER PART NO	NAME OF PART				QTY
		1	2	3	4	
4	92872	LOCK-FERRULE				1
5		FERRULE				1
6	27187	CAPSCREW				1

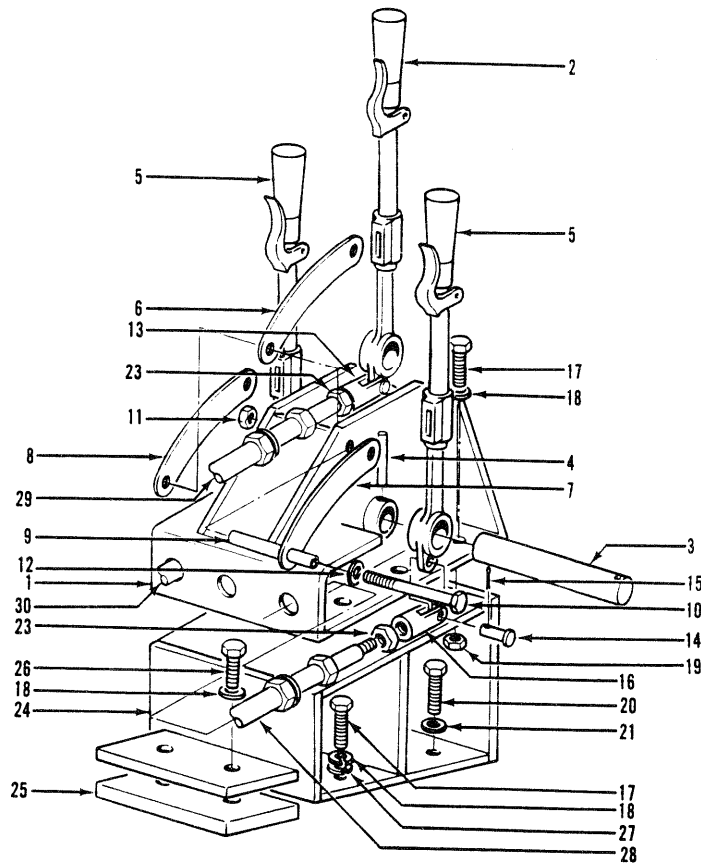
BRAKE/SHIFTER

GEAR-HANDLING.....1D03-1D09
LINKAGE-BRAKE.....1D12
LINKAGE-SHIFTER.....1D10 1D11



GEAR-HANDLING

CATERPILLAR D4DD WITH S/N 27X

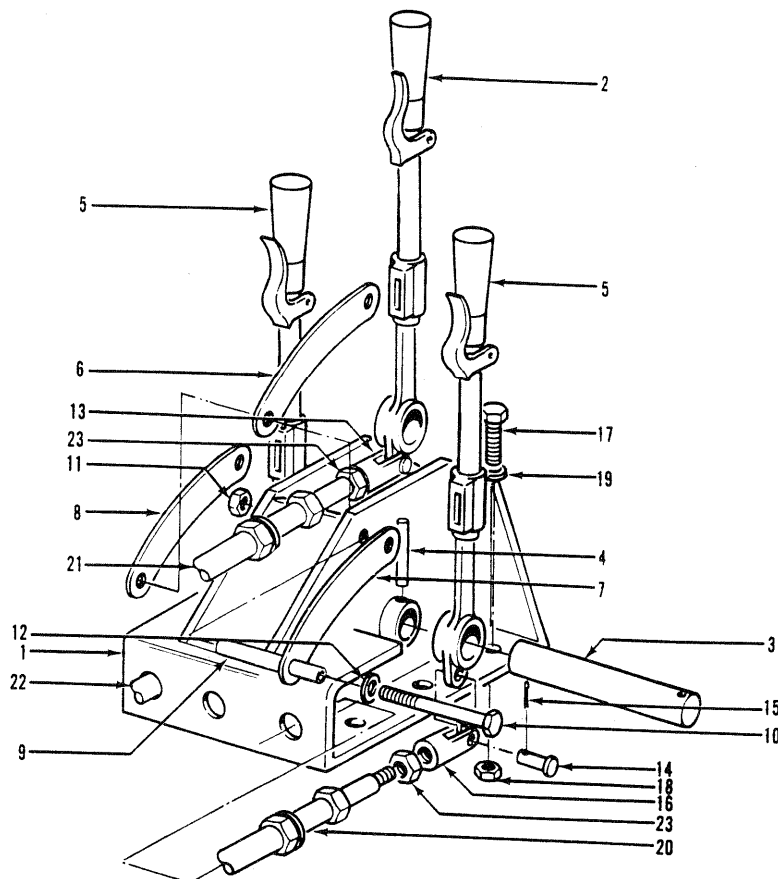


REF NO	HYSTER PART NO	NAME OF PART	QTY
		1 2 3 4	
	179058	LEVER-HAND	1
1	92910 A	BRACKET	1
2	# 92916 A	LEVER-HAND	1
3	92919	SHAFT	1
4	19909	PIN-ROLL	1
5	% 92920 A	LEVER-HAND	1
6	# 90371	BAR	2
7	% 32657	BAR	1
8	+ 92923	BAR	1
9	92924	SPACER	1
10	220982	CAPSCREW	8
11	15056	NUT	2
12	15156	WASHER	2
13	# 92909	END-ROD	2
14	153	PIN	1
15	15224	PIN	3
16	% 92925	END-ROD	3
			2

REF NO	HYSTER PART NO	NAME OF PART	QTY
		1 2 3 4	
17	16830	CAPSCREW	7
18	15158	WASHER	9
19	15058	NUT	6
20	16828	CAPSCREW	1
21	15156	WASHER	1
23	15026	NUT	3
24	293163	BRACKET	1
25	293174	PLATE	1
26	16829	CAPSCREW	2
27	15178	WASHER	1
28	+ 96163	CABLE	1
29	# 154985	CABLE	1
30	% 223236	CABLE	1
			1
		+FREESPOOL	
		#BRAKE	
		%FORWARD AND REVERSE	

GEAR-HANDLING

CATERPILLAR 955 WITH S/N 61H AND 85J CATERPILLAR D4DD KOMATSU AND FIAT ALLIS



KEY

A-CATERPILLAR 955 WITH S/N 61H AND 85J
 B-CATERPILLAR D4DD WITH S/N 78A6978 AND 82J
 C-KOMATSU
 D-FIAT-ALLIS

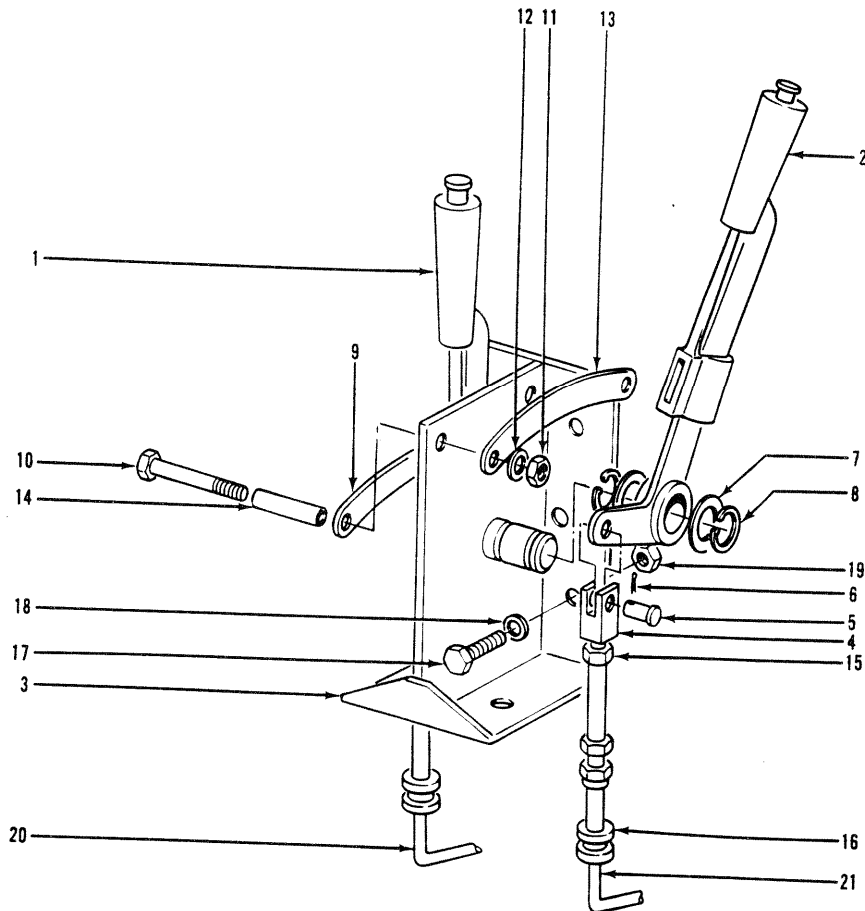
REF NO	HYSTER PART NO	NAME OF PART	QTY			
			1	2	3	4
1	179058	LEVER-HAND	1	1	1	1
2	92910 A	BRACKET	1	1	1	1
3	92916 A	LEVER-HAND	1	1	1	1
4	92919	SHAFT	1	1	1	1
5	19909	PIN-ROLL	1	1	1	1
6	92920 A	LEVER-HAND	2	2	2	2
7	90371	BAR	1	1	1	1
8	32657	BAR	1	1	1	1
9	92923	BAR	1	1	1	1
10	92924	SPACER	8	8	8	8
11	220982	CAPSCREW	2	2	2	2
12	15056	NUT	2	2	2	2
13	15156	WASHER	2	2	2	2
14	92909	END-RGD	1	1	1	1
15	153	PIN	3	3	3	3
16	15224	PIN	3	3	3	3
17	92925	END-ROD	2	2	2	2
18	16830	CAPSCREW	4	4	4	4
19	15058	NUT	4	4	4	4
	15158	WASHER	4	4	4	4

REF NO	HYSTER PART NO	NAME OF PART	QTY			
			A	B	C	D
20	% 96600	CABLE	1	1	1	1
20	% 96598	CABLE	1	1	1	1
20	% 96162	CABLE	1	1	1	1
20	% 96598	CABLE	1	1	1	1
21	% 96164	CABLE	1	1	1	1
21	% 96600	CABLE	1	1	1	1
21	+ 154985	CABLE	1	1	1	1
21	+ 88577	CABLE	1	1	1	1
22	% 147329	CABLE	1	1	1	1
22	% 96600	CABLE	1	1	1	1
22	% 96163	CABLE	1	1	1	1
22	% 96599	CABLE	1	1	1	1
22	% 223236	CABLE	1	1	1	1
23	15026	NUT	3	3	3	3

+BRAKE
 *FORWARD AND REVERSE
 %FREESPOOL
 @LEFT HAND FENDER MOUNT
 #RIGHT HAND FENDER MOUNT

GEAR-HANDLING

CATERPILLAR 955 WITH S/N 61H AND 85J WITH CAB



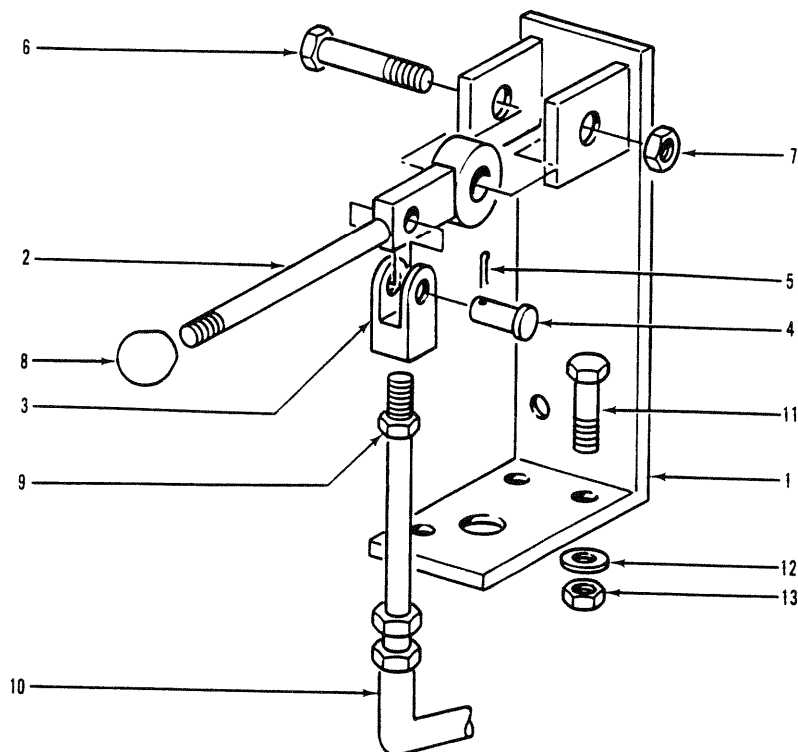
REF NO	HYSTER PART NO	NAME OF PART	QTY
		1 2 3 4	
1	223237	LEVER-HAND	1
2	+ 223727	LEVER-HAND	1
3	223728	LEVER-HAND	1
4	223729	BRACKET	1
5	92909	END-ROD	2
6	153	PIN	2
7	15224	PIN	2
8	59362	WASHER	4
9	58928	RING-SNAP	4
10	+ 90371	BAR	1
11	18542	CAPSCREW	4
12	15056	NUT	4
	15156	WASHER	2

REF NO	HYSTER PART NO	NAME OF PART	QTY
		1 2 3 4	
13	* 32657	BAR	1
14	223735	SPACER	4
15	15026	NUT	2
16	239419	GROMMET	2
17	16805	CAPSCREW	4
18	15156	WASHER	4
19	15056	NUT	4
20	+ 154985	CABLE	1
21	* 223236	CABLE	1

+BRAKE
*FORWARD AND REVERSE

FREESPOOL

CATERPILLAR 941 951 AND 955 WITH S/N 61H AND 85J
WITH CAB AND 955 WITH S/N 13X



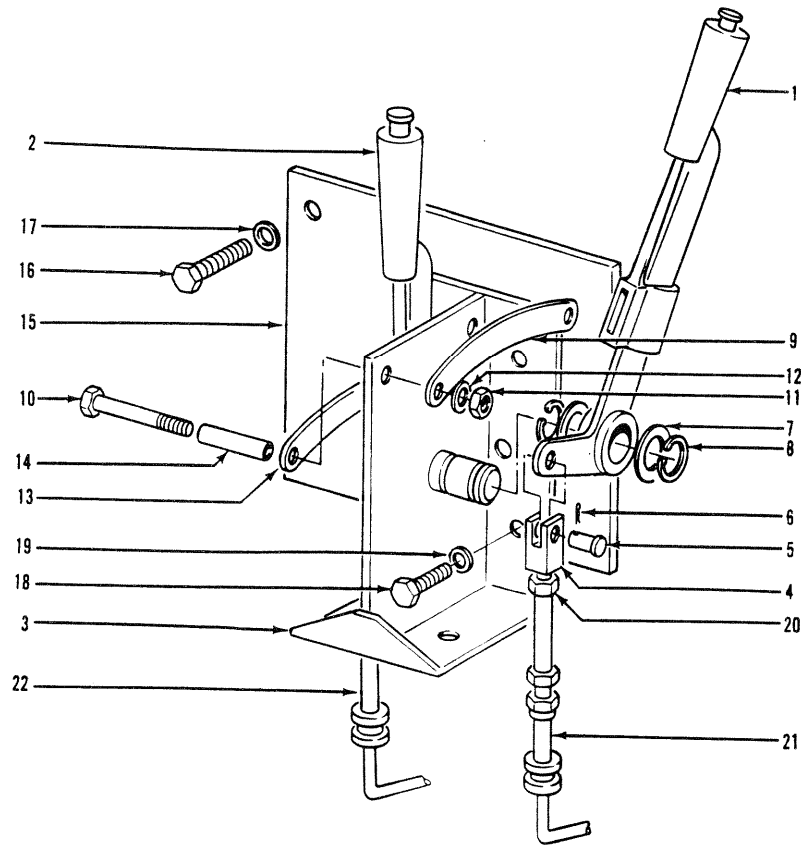
A-CATERPILLAR 955 WITH S/N 13X
B-CATERPILLAR 955 WITH S/N 61H AND 85J WITH CAB
CATERPILLAR 941 AND 951

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY		
			A	B	C
	223238	LEVER-HAND			
1	246766	BRACKET	1	1	1
2	246767	LEVER-HAND	1	1	1
3	92909	END-ROD	1	1	1
4	153	PIN	1	1	1
5	15224	PIN	1	1	1
6	16832	CAPSCREW	1	1	1
7	53163	NUT	1	1	1
8	243189	KNOB	1	1	1

REF NO	HYSTER PART NO	NAME OF PART	QTY		
			A	B	C
9	15026	NUT	1	1	1
10	96163	CABLE	1	••	••
10	96598	CABLE	••	1	••
10	96162	CABLE	••	••	1
11	159708	BOLT	3	••	••
11	16597	CAPSCREW	••	3	••
11	16598	CAPSCREW	••	••	3
12	15156	WASHER	3	3	3
13	15056	NUT	3	3	3

GEAR-HANDLING

CATERPILLAR 955 WITH S/N 13X

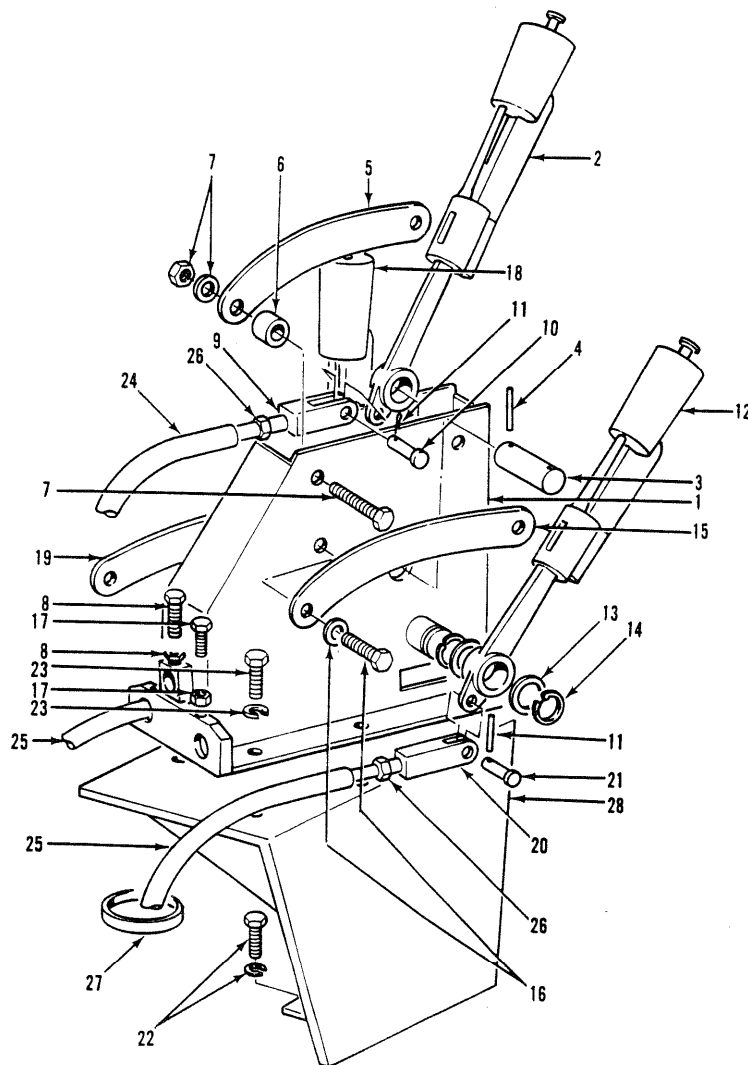


REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
	303936	LEVER-HAND	1
1	+ 223727	LEVER-HAND	1
2	≠ 223728	LEVER-HAND	1
3	303934	BRACKET	1
4	92909	END-ROD	2
5	153	PIN	2
6	15224	PIN	2
7	59362	WASHER	4
8	58928	RING-SNAP	4
9	+ 90371	BAR	1
10	18542	CAPSCREW	2
11	15056	NUT	2
12	15156	WASHER	2

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
13	≠ 32657	BAR	1
14	223735	SPACER	4
15	298583	BLOCK-MOUNT	1
16	169337	CAPSCREW	4
17	15162	WASHER	4
18	159708	BOLT	4
19	15156	WASHER	4
20	15026	NUT	2
21	+ 223236	CABLE	1
22	≠ 154985	CABLE	1
		+BRAKE	
		*FORWARD AND REVERSE	

GEAR-HANDLING

CATERPILLAR 941 AND 951 WITHOUT CAB



REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
1	174027	LEVER-HAND	1
2	+ 174028	BRACKET	1
3	174047	LEVER	1
4	19880	PIN-LEVER	1
5	+ 90371	PIN-ROLL	1
6	11412	BAR	1
7	16379	SPACER	4
7	15056	CAPSCREW	2
7	15156	NUT	2
8	16259	WASHER	2
8	15001	SCREW	1
9	+ 92909	NUT	1
10	174037	END-ROD	1
11	15223	PIN-ROD END	1
12	+ 174030	PIN-COTTER	5
13	59362	LEVER	1
14	58928	WASHER	2
15	+ 32657	RING-SNAP	2
16	16598	BAR	1
		CAPSCREW	4

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
16	15156	WASHER	4
17	16220	SCREW	2
17	15001	NUT	2
18	# 174031	LEVER	1
19	# 92923	BAR	1
20	# 92925	END-ROD	1
21	153	PIN	2
22	16829	CAPSCREW	2
22	15158	WASHER	4
23	18585	CAPSCREW	4
23	15158	WASHER	6
24	+ 174038	CABLE	6
25	# 174039	CABLE	1
26	15006	NUT	2
27	129563	CLAMP	6
28	174029	BRACKET	1

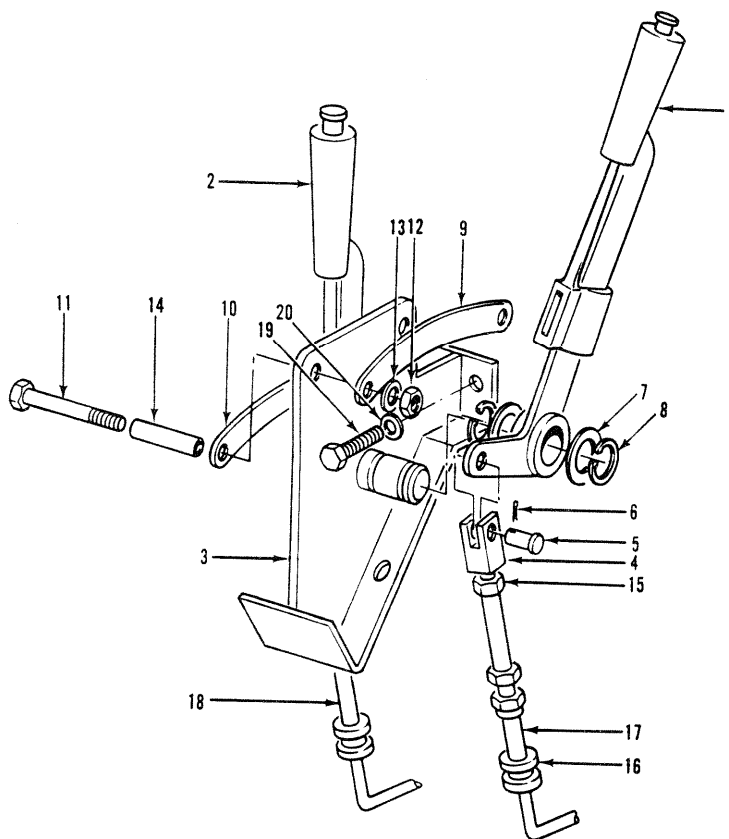
*BRAKE

*FORWARD AND REVERSE

#FREESPOOL

GEAR-HANDLING

CATERPILLAR 941 AND 951 WITH CAB



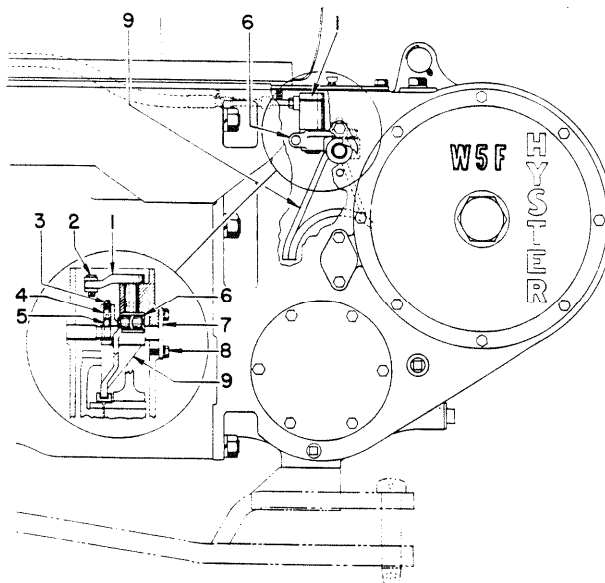
REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
	223239	LEVER-HAND	1
1	+ 223727	LEVER-HAND	1
2	# 223728	LEVER-HAND	1
3	223738	BRACKET	1
4	92909	END-ROD	1
5	153	PIN	2
6	15224	PIN	2
7	59362	WASHER	2
8	58928	RING-SNAP	4
9	+ 90371	BAR	4
10	# 32657	BAR	1
11	18542	CAPSCREW	1
			2

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
12	15056	NUT	2
13	15156	WASHER	2
14	223735	SPACER	4
15	15026	NUT	2
16	239419	GROMMET	2
17	+ 154985	CABLE	2
18	# 223236	CABLE	1
19	18585	CAPSCREW	1
20	15158	WASHER	4
			4

+BRAKE
#FORWARD AND REVERSE

LINKAGE-SHIFTER

FREESPOOL

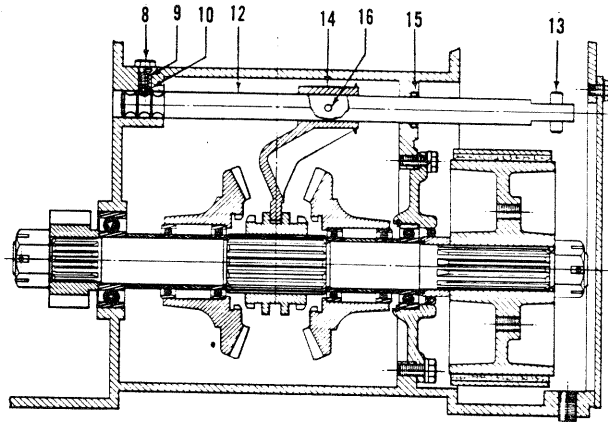
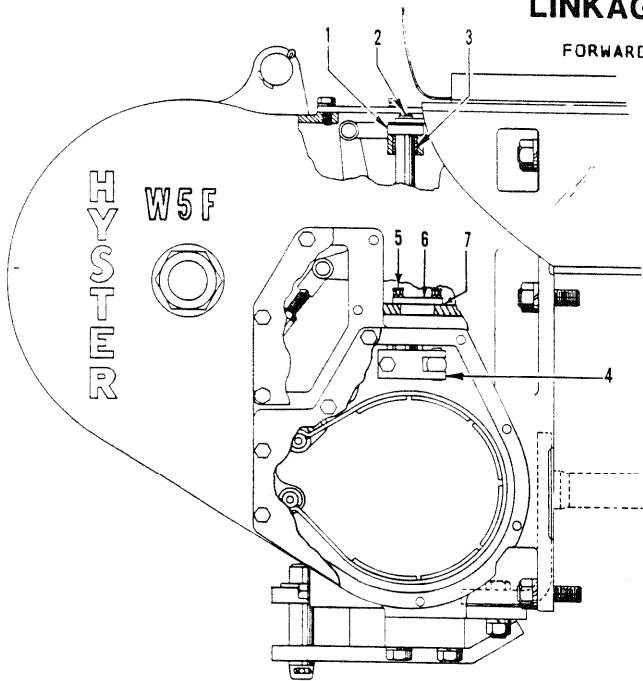


REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
1	+ 96150 W	CRANK	1
2	+ 92909	END-ROD	1
2	15026	NUT	1
2	+ 153	PIN	1
2	+ 15224	PIN	1
3	46578	PLUG-PIPE	1
3	67355	WIRE-LOCK	1
4	177964	SPRING	1
5	6348	BALL	1
6	179043	CRANK-SHIFTER	1
6	& 87237 W	CRANKSHAFT	1
6	& 119758	JOINT-BALL	1

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
6	& 15026	NUT	1
6	18588	CAPSCREW	1
7	92899 A	SHAFT-SHIFT	1
7	151646	GASKET	1
8	178403	CAPSCREW	2
8	15158	WASHER	3
9	92902 A	SHIFTER	1
9	92867	PIN	1
*FIAT ALLIS AND CATERPILLAR D4DD 941 AND 951 &KOMATSU AND CATERPILLAR 955 WITH S/N 61H AND 85J			

LINKAGE-SHIFTER

FORWARD AND REVERSE

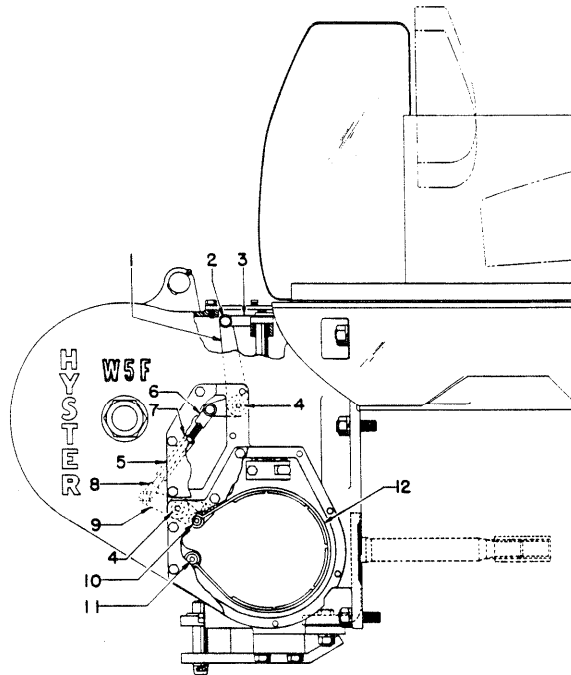


REF NO	HYSTER PART NO	NAME OF PART	QTY
		1 2 3 4	
1	+ 96145	W SHAFT	1
1	& 154994	CRANKSHAFT	1
2	92886	END-ROD	1
2	15026	NUT	1
2	153	PIN	1
2	15224	PIN	1
3	93296	BUSHING-SPLIT	1
4	92888	CRANK	2
4	18589	CAPSCREW	1
4	15158	WASHER	1
4	15058	NUT	1
8	15314	FITTING-PIPE	1

REF NO	HYSTER PART NO	NAME OF PART	QTY
		1 2 3 4	
9	179844	SPRING	1
10	6348	BALL	1
12	178961	SHAFT	1
13	92867	PIN	1
14	178960	SHIFTER-FWD/REV	1
15	145753	SEAL-OIL	1
16	27936	SCREW	1
16	67355	WIRE-LOCK	1

+FIAT ALLIS AND CATERPILLAR D4DD 941 AND 951
 &KOMATSU AND CATERPILLAR 955 WITH S/N 61H AND
 85J

LINKAGE-BRAKE



REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
1	96143 A	CRANK	1
1	94024	BUSHING-SPLIT	2
2	153	PIN	3
2	15224	PIN	3
3	92925	END-ROD	1
3	15026	NUT	1
4	92879	SHAFT-CRANK	2
5	93875 A	TURNBUCKLE	1
5	153	PIN	2
5	15224	PIN	2

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
6	93876	END-ROD RH	1
7	15028	NUT	1
8	92885	END-ROD LH	1
9	94641 A	CRANK	1
9	92707	BUSHING-SPLIT	1
10	92880	SHAFT	1
10	15229	PIN	1
11	92877	SHAFT-ANCHOR	1
12	92874 A	BAND	1
12	93673 A	LINING/RIVET	1

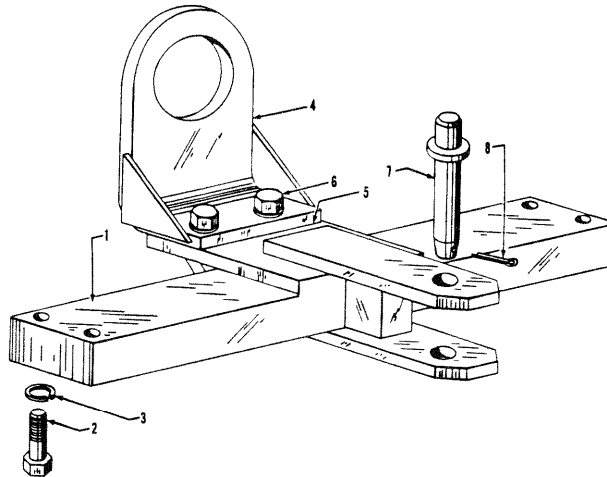
EQUIPMENT-OPTIONAL

BRAKE-AUTOMATIC.....1F04
BRAWBAR.....1F03
FAIRLEAD.....1F05



DRAWBAR

SOLID MOUNT



KEY

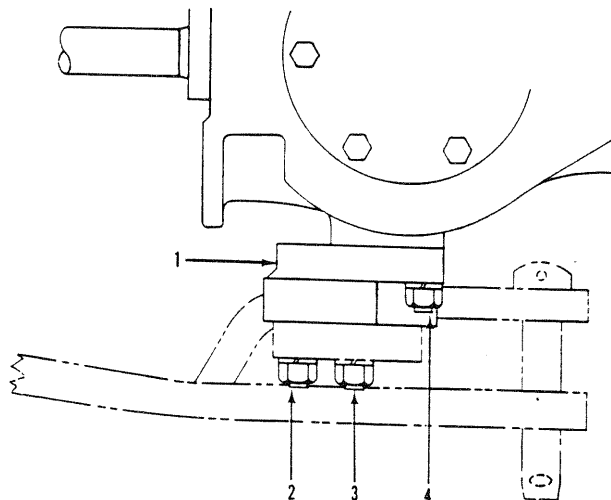
A-KOMATSU AND STANDARD SPEED CATERPILLAR 941 951 AND 955
 B-FIAT ALLIS AND LOW SPEED CATERPILLAR 941 951 AND 955

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	178976	DRAWBAR	1	1	6	15062	NUT	2	••
2	15784	CAPSCREW	4	4	6	15162	WASHER	2	2
4	96172 W	BRACKET	1	••	6	18623	CAPSCREW	••	2
5	96174	SHIM	AR	AR	7	94448	PIN	1	1
6	18624	CAPSCREW	2	••	8	15264	PIN-COTTER	1	1

DRAWBAR

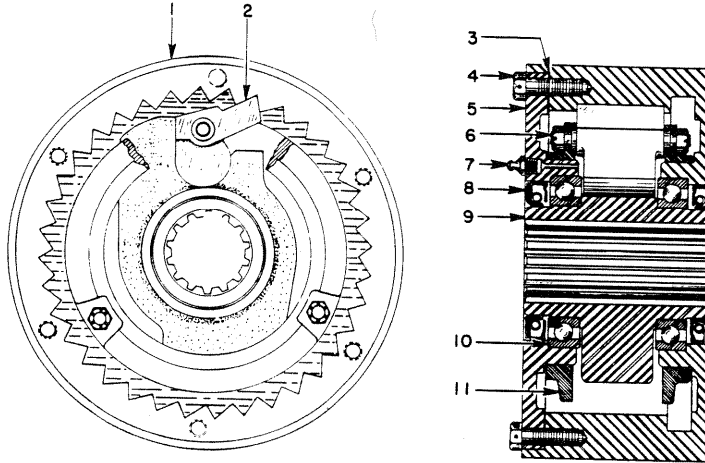
SWING MOUNT

CATERPILLAR D4DD



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	123524	BLOCK-MOUNT	2	3	18635	CAPSCREW	2
2	15786	CAPSCREW	2	4	18624	CAPSCREW	2

BRAKE-AUTOMATIC

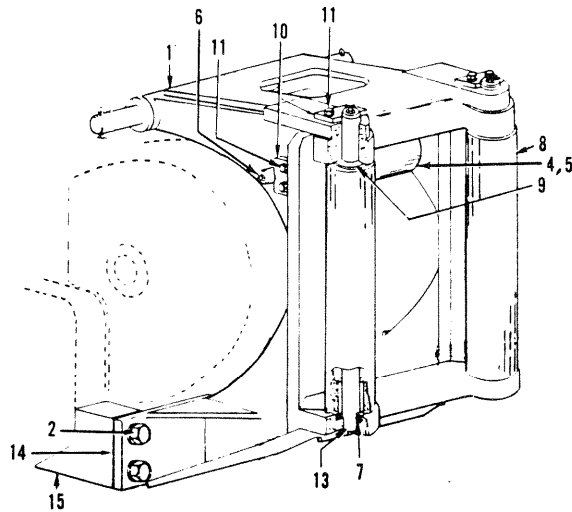


REF NO	HYSTER PART NO	NAME OF PART	QTY
		1 2 3 4	
	92826 A	BRAKE-AUTO	1
1	59389 A	WHEEL-BRAKE	1
2	59393	PAWL	1
3 *	59396	GASKET	1
4	67355	WIRE-LOCK	1
4	27259	CAPSCREW	6
5	59387	COVER	1
6	94599	LINK-SHOULDER	3
6	12430	NUT	6

REF NO	HYSTER PART NO	NAME OF PART	QTY
		1 2 3 4	
6	15201	PIN-COTTER	6
7	46187	PLUG-VENT	1
8	59395	SEAL-OIL	2
9	92950	HUB	1
10	44313	BEARING-BALL	2
11	92945	RING-DAG	2

*INCLUDED IN GASKET SET 183352

FAIRLEAD



REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
1	255092	FRAME-FAIRLEAD	1
2	18621	CAPSCREW	4
2	15162	WASHER	4
4	92212 A	ROLLER	1
5	92720	WASHER	2
6	248796	SHAFT	1
7	16001	FITTING-GREASE	4
8	59846 A	ROLLER	2

REF NO	HYSTER PART NO	NAME OF PART 1 2 3 4	QTY
9	308408	WASHER	4
10	93166	KEEPER	3
11	16830	CAPSCREW	6
11	15158	WASHER	6
13	255076	SHAFT	2
14	226649	SPACER	2
15	216006	BLOCK-MOUNT	2

INDEX-NUMERICAL

153 - 93875A.....G03
93876 - 308408.....G04



INDEX — NUMERICAL

PART NO	PAGE	REF NO	PART NO	PAGE	REF NO	PART NO	PAGE	REF NO	PART NO	PAGE	REF NO	PART NO	PAGE	REF NO
153	1D03	14	15156	1D04	12	16001	1F05	7	46187	1F04	7	92848	1B04	14
	1D04	14		1D05	12	16220	1D08	17	46578	1D10	3		1C07	1
	1D05	5		1D05	18	16259	1D08	8	53156	1B07	6	92853	1C06	4
	1D06	4		1D06	12	16356	1C05	5		1B09	3	92854	1C06	18
	1D07	5		1D07	12	16379	1D08	7	53163	1D06	7	92855	1C06	7
	1D08	21		1D07	19	16597	1D06	11	53559	1C07	9	92856	1C06	5
	1D09	5		1D08	7	16598	1D06	11		1C07	17	92857	1C06	2
	1D10	2		1D08	16		1D08	16	58907	1C05	6	92858	1C06	10
	1D11	2		1D09	13	16805	1D05	17	58927	1C05	20	92859	1C06	21
	1D12	2	15158	1B04	3	16828	1D03	20	58928	1D05	8	92861	1C06	23
	1D12	5		1B04	12	16829	1B04	12		1D07	8	92862	1C06	24
6348	1D10	5		1B04	15		1D03	26		1D08	14	92863	1C06	15
	1D11	10		1C06	12		1D08	22		1D09	8	92867	1D10	9
6852	1C03	6		1C08	5	16830	1D03	17	58933	1C05	8		1D11	13
9554	1C03	5		1D03	18		1D04	17	58954	1C05	25	92871	1C09	3
	1C04	5		1D04	19		1F05	11	59058	1C07	12	92872	1C09	4
	1C05	17		1D08	22	16832	1D06	6	59229	1C07	14	92874 A	1D12	12
9563	1C03	4		1D08	23	18000	1B08	6	59362	1D05	7	92877	1D12	11
	1C04	4		1D09	20		1B09	2		1D07	7	92879	1D12	4
	1C05	17		1D10	8	18402	1B07	4		1D08	13	92880	1D12	10
11412	1D08	6		1D11	4	18542	1D05	10		1D09	7	92885	1D12	8
12430	1F04	6		1F05	11		1D07	10	59387	1F04	5	92886	1D11	2
12895	1C08	3	15159	1B06	9		1D09	11	59389 A	1F04	1	92888	1D11	4
12917	1C03	1	15162	1D07	17	18585	1D08	23	59393	1F04	2	92892	1B04	7
	1C04	1		1F03	6		1D09	19	59395	1F04	8	92893	1B04	7
12918	1C08	10		1F05	2	18588	1D10	6	59396	1F04	3	92894	1B04	6
12919	1C03	7	15164	1B05	2	18589	1D11	4	59583	1C07	15	92895	1B04	6
	1C04	7		1B06	11	18621	1F05	2	59633	1C05	12	92899 A	1D10	7
15001	1D08	8		1B07	6	18623	1F03	6	59846 A	1F05	8	92902 A	1D10	9
	1D08	17		1B08	3	18624	1F03	6	67355	1C03	10	92909	1D03	13
15006	1D08	26	15166	1B06	4		1F03	4		1C04	10		1D04	13
15014	1B05	1	15178	1D03	27	18635	1F03	3		1D10	3		1D05	4
	1B06	10	15201	1F04	6	19880	1D08	4		1D11	16		1D06	3
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15062	1F03	6		1C03	12	44314	1C05	26	92842	1C08	4	93296	1D11	3
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