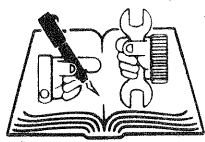


PARTS MANUAL

**TOWING WINCH
W8K DIRECT DRIVE**

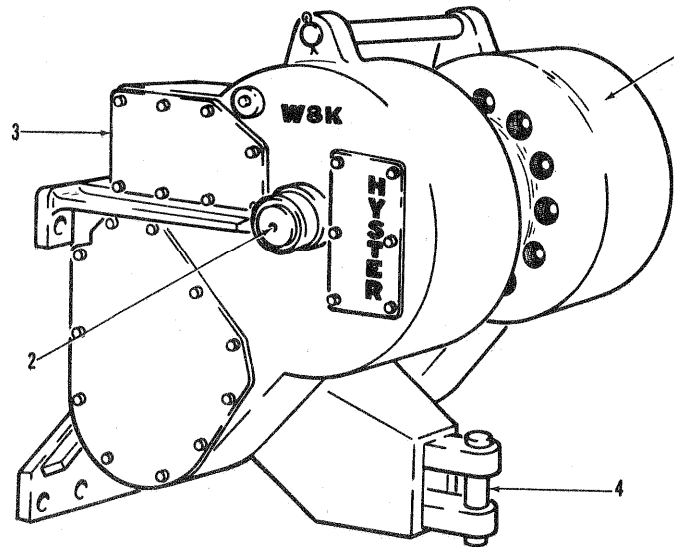


Hyster Easy Language Program

CUSTOMER EDITION

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ILLUSTRATED INDEX



USED ON-	MAKE	MODEL	SERIAL NUMBER
	CATERPILLAR	D7	47A, 91V, 93N
	FIAT-ALLIS	16-B	DIRECT DRIVE-10301 UP
	FIAT-ALLIS	20	DIRECT DIVE-ALL SERIAL NUMBERS
	KOMATSU	D80A-12	ALL SERIAL NUMBERS

REF	ITEM	PAGE
1	FRAMES, COVERS AND MOUNTING STUDS.....	2B02
2	GEAR TRAIN AND SHAFTS.....	2C02
3	BRAKE AND SHIFTER MECHANISM.....	2D02
4	OPTIONAL EQUIPMENT.....	2E02
5	NUMERICAL INDEX.....	602

USE HYSTER APPROVED PARTS... *it pays*

ALPHABETICAL INDEX

ATTACHING PARTS.....	2B09	FRAME AND COVERS.....	2B03
AUTOMATIC BRAKE.....	2C05	HANDLING GEAR.....	2D04
BEVEL GEAR SHAFT.....	2C04	INTERMEDIATE GEAR SHAFT.....	2C04
BRAKE MECHANISM.....	2D03	MOUNTING STUDS.....	2B05-2B08
BRAKE SHAFT.....	2C05	POWER TAKE-OFF.....	2C03
CABLE GUIDE ROLLERS.....	2E03	SHIFTER MECHANISM.....	2D03
CABLE LOCKS.....	2C06	SWIVELING BARS.....	2E04
DRUM SHAFT.....	2C06	TRACTOR ALTERATIONS.....	2B08
FAIRLEAD.....	2E03		

USE HYSTER APPROVED PARTS... *it pays*

UNIT IDENTIFICATION

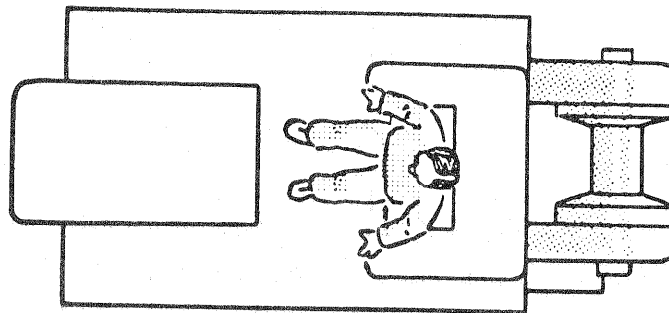
UNIT SERIAL NO.

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**

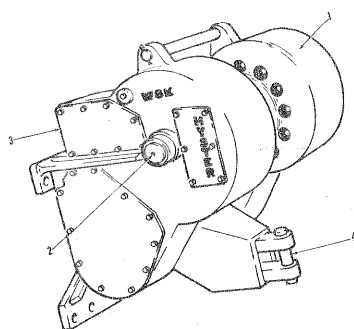
**NOTE: All Studs and Capscrews used in this Winch
are Heat-treated.**

USE HYSTER APPROVED PARTS... it pays

How To Use The Illustrated Parts Manual

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

ILLUSTRATED INDEX

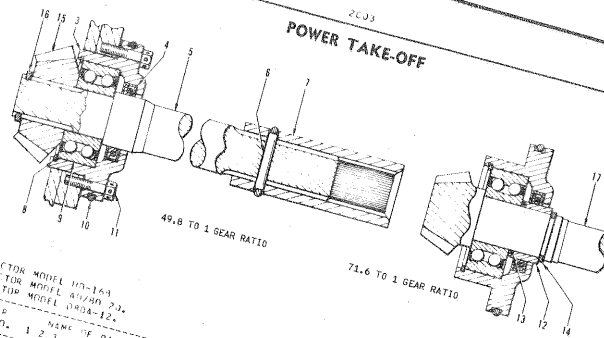


USED ON:	MAKE	MODEL	SERIAL NUMBER
			ATA, 93V, 93N
	CATERPILLAR	D7	DIRECT DRIVE-10301 UP
	FIAT-ALLIS	16-B	ALL SERIAL NUMBERS
	KUMATSU	D80A-12	

REF.	ITEM
1	FRAMES, COVERS AND MOUNTING STUDS
2	GEAR TRAIN AND SHAFTS
3	BRAKE AND SHIFTER MECHANISM
4	OPTIONAL EQUIPMENT
5	NUMERICAL INDEX

USE HYSTER APPROVE

POWER TAKE-OFF



KEY
A-FOR TRACTOR MODEL 100-163
B-FOR TRACTOR MODEL 100-163
C-FOR TRACTOR MODEL 100A-124

REF.	HYSTER	NAME OF PART	QTY.
1	134078	BEARING-CARRIED	1
2	134079	SHIM-005	1
3	134079	SHIM-005	1
4	134079	SHIM-005	1
5	134079	SHIM-005	1
6	134079	SHIM-005	1
7	134079	SHIM-005	1

REF.	HYSTER	NAME OF PART	QTY.
1	134078	BEARING-CARRIED	1
2	134079	SHIM-005	1
3	134079	SHIM-005	1
4	134079	SHIM-005	1
5	134079	SHIM-005	1
6	134079	SHIM-005	1
7	134079	SHIM-005	1

REF.	HYSTER	NAME OF PART	QTY.
1	134078	BEARING-CARRIED	1
2	134079	SHIM-005	1
3	134079	SHIM-005	1
4	134079	SHIM-005	1
5	134079	SHIM-005	1
6	134079	SHIM-005	1
7	134079	SHIM-005	1

REF.	HYSTER	NAME OF PART	QTY.
1	134078	BEARING-CARRIED	1
2	134079	SHIM-005	1
3	134079	SHIM-005	1
4	134079	SHIM-005	1
5	134079	SHIM-005	1
6	134079	SHIM-005	1
7	134079	SHIM-005	1

When The Part Number Is Not Known

1. USE: Determine the function and application of the part required. Go to the illustrated index page and select the most appropriate 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.

HYSTER COMPANY

PARTS OPERATIONS

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

2. 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.
3. 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.
4. Quantities shown are for one assembly as illustrated unless otherwise specified.

ORDERING PARTS:

When ordering replacement parts, give the winch serial number, model, part number, name of part and quantity required.

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

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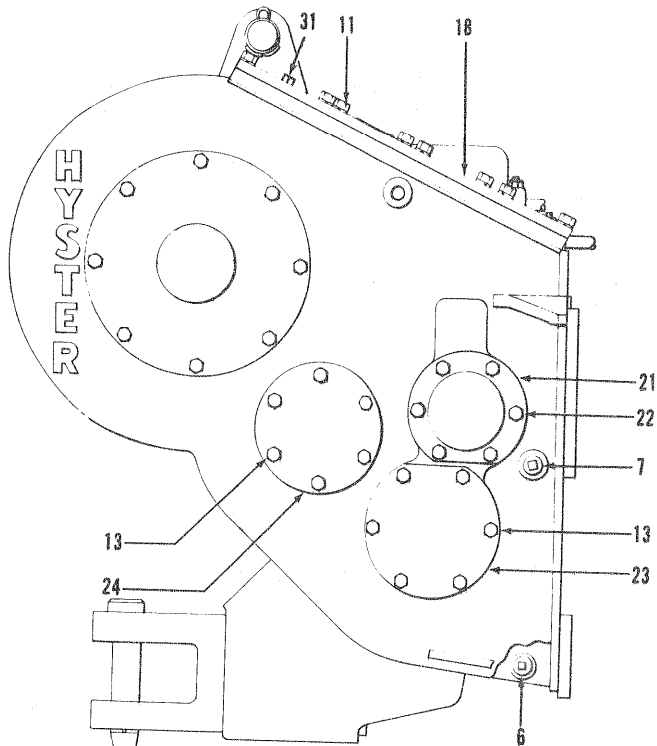
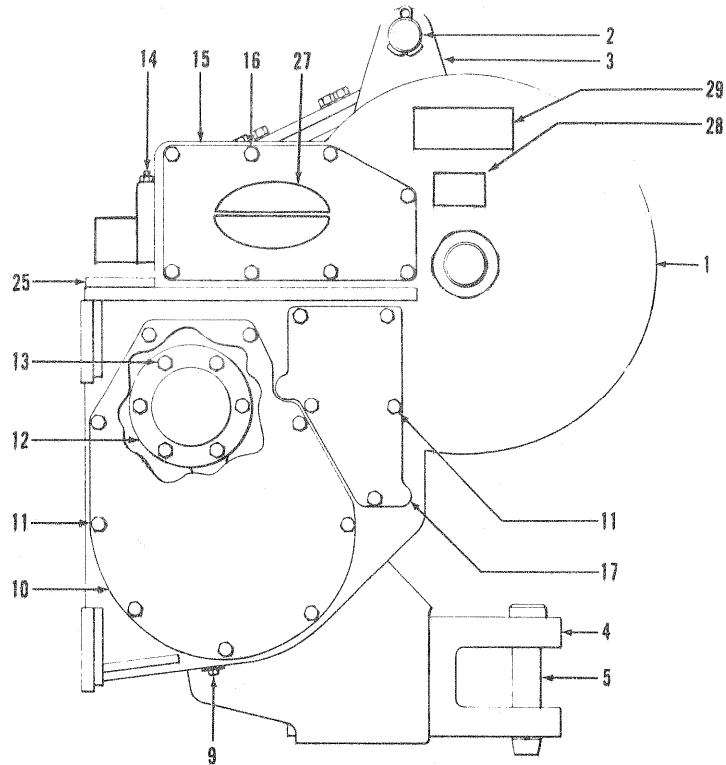
FRAMES, COVERS AND MOUNTING STUDS

FRAME AND COVERS.....2B03
MOUNTING STUDS.....2B05-2B08
TRACTOR ALTERATIONS.....2B08

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

FRAMES AND COVERS



FRAMES AND COVERS

REF.	HYSTER	NAME OF PART				REF.	HYSTER	NAME OF PART			
NO.	PART NO.	1 2 3 4	QTY.			NO.	PART NO.	1 2 3 4	QTY.		
1		FRAME-WINCH	1			19	15319	PLUG-PIPE, 1-1/2	1		
2	92606	ROD-TIE	1			20	21420	BREATHER	1		
2	# 196279	ROD-TIE	1			21	15302	FITTING-PIPE	1		
2	15272	COTTER-3/8 X 3	2			21	95948	RETAINER-BEARING	1		
3	173609	BRACKET-TIE ROD	2			21	110934	SHIM-.005	AR		
3	# 196278	BRACKET-TIE ROD	2			21	110935	SHIM-.007	AR		
4	15064	NUT-7/8 UNC	6			21	110936	SHIM-.020	AR		
4	178020	BRACKET-RIGID DRAWBAR	1			21	55289	O-RING	1		
4	178025	BRACKET-SWIVELING DRAWBAR	1			22	178402	CAPSCREW-HT, 1/2 UNC X 1-1/4	6		
4	142736	BRACKET-R.H. SWINGING DRAWBAR	1			22	222091	LOCKWASHER-1/2	6		
4	142735	BRACKET-L.H. SWINGING DRAWBAR	1			23	96433	RETAINER-BEARING	1		
4	189496	SPACER-SWINGING DRAWBAR	2			23	134081	SHIM-.005	AR		
4	189497	CAPSCREW-HT, 7/8 UNC X 9	6			23	134082	SHIM-.007	AR		
4	15164	LOCKWASHER-7/8	6			23	134083	SHIM-.020	AR		
5	95959	PIN-RIGID AND SWINGING DRAWBAR	1			24	92623	COVER	1		
5	15273	PIN-DRAWBAR, RIGID DRAW.	1			24	134074	SHIM-.005	AR		
6	201814	PLUG-MAGNETIC, 3/4	1			24	134075	SHIM-.007	AR		
7	15304	PLUG-PIPE, 1-1/2	1			24	134076	SHIM-.020	AR		
9	15304	PLUG-PIPE, 3/4	1			25	□ 161848	COVER-TRANSMISSION	1		
10	96423	COVER-BRAKE	1			25	\$□ 183403	COVER-TRANSMISSION	1		
10	@ 196024	COVER-BRAKE	1			25	£ 253814	COVER-TRANSMISSION	1		
10	* 96424	GASKET	1			25	* 142759	GASKET	1		
10	@ 196023	GASKET	1			25	\$ 183404	GASKET	1		
11	178403	CAPSCREW-HT, 1/2 UNC X 1	14			25	£ 253812	GASKET	1		
11	222091	LOCKWASHER-1/2	14			27	198873	DECAL-MODEL	2		
12		CARRIER-BRG, BEVEL GEAR SHAFT	1			29	164680	CAPSCREW-1/2 UNC X 2-1/2 G5	4		
12	110934	SHIM-.005	AR			30	178402	CAPSCREW-1/2 UNC X 1-1/4 G5	10		
12	110935	SHIM-.007	AR			30	222091	WASHER-1/2	10		
12	110936	SHIM-.020	AR			31	21420	PLUG-BREATHING	1		
13	178402	CAPSCREW-1/2 UNC X 1-1/4	18								
13	15158	LOCKWASHER-1/2	18								
14	16212	SETSCREW-3/8 UNC X 1-1/4	2								
14	15086	NUT-JAM, 3/8 UNC	2								
15	164691	COVER	1								
15	* 164708	GASKET	1								
16	179443	CAPSCREW-3/8 UNC X 7/8	8								
16	222087	LOCKWASHER-3/8	8								
17	96425	COVER	1								
17	* 96426	GASKET	1								
18	142760	COVER-TOP, R.H.	1								
18	# 192956	COVER-TOP, R.H.	1								
18	* 142761	GASKET	1								

*INCLUDED IN GASKET KIT 168728.

#FIRST USED ON SERIAL NO. F47P-2155.

@LAST USED ON SERIAL NUMBER F47P-2173.

@FIRST USED ON SERIAL NO. F47P-2174.

\$FIRST USED ON SERIAL NUMBER F47P-2174.

LAST USED ON SERIAL NUMBER A127P-1502,

A129P-1500, A150P-1782, A148P-1516,

A154P-1502, F47P-2436,

&FIRST USED ON SERIAL NUMBER A127P-1503,

A129P-1501, A150P-1783, A148P-1517,

A154P-1503, F47P-2437,

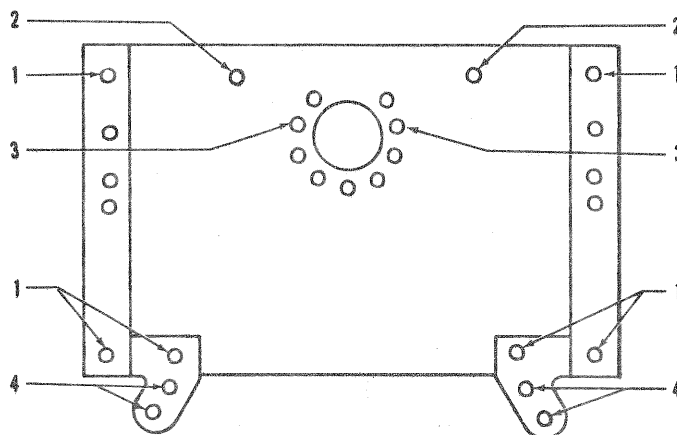
HYSTER COMPANY

PARTS OPERATIONS

Danville, Illinois 61832

MOUNTING STUDS

FOR TRACTOR MODEL HD-16B, LAST USED ON WINCH SERIAL NO. A128P-1509



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	* 93347	STUD	6
1	15018	NUT-1 1/4 UNF	6
1	15168	LOCKWASHER-1 1/4	6
2	* 192947	STUD-DRILLED	2
2	55434	O-RING	2
2	134821	NUT-SLOTTED JAM	2

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
2	15240	COTTER-5/32 X 2-1/2	2
3	192949	PLUG	9
4	18849	PLUG	4

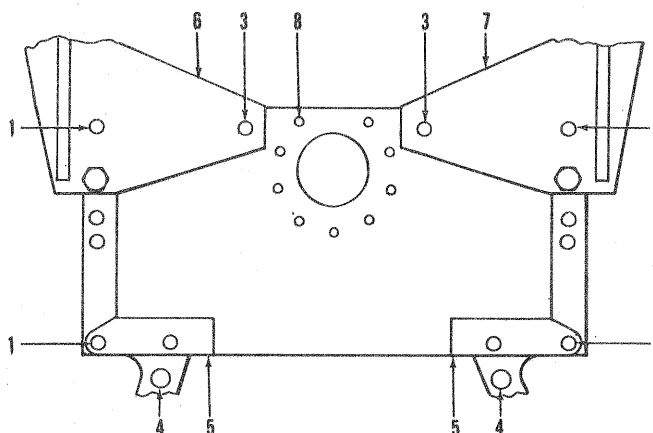
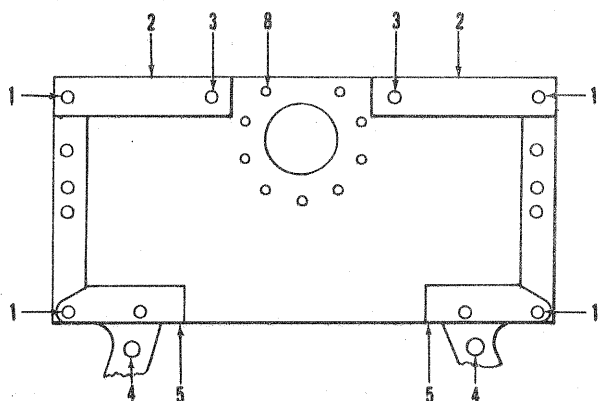
*REQUIRES LOCTITE KIT NO. 230064.

MOUNTING STUDS

FOR TRACTOR MODEL HD-16B, FIRST USED ON WINCH SERIAL NO. A127P-1501 AND A128P-1510

WITHOUT ROLL OVER PROTECTION

WITH ROLL OVER PROTECTION



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	□ 216224	STUD	6
1	223453	SHIM-.020	AR
1	15018	NUT-HEX 1 1/4 UNF	6
1	15168	LOCKWASHER-1 1/4	6
2	216226	PLATE	2
3	□ 216225	STUD-DRILLED	2
3	55434	O-RING	2
3	223453	SHIM-.020	AR
3	134821	NUT-SLOTTED JAM	2

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
4	55434	O-RING	2
5	216227	PLATE	2
6	*	BRACKET-LH, COMES WITH TRACTOR	1
7	*	BRACKET-RH, COMES WITH TRACTOR	1
8	192949	PLUG	9

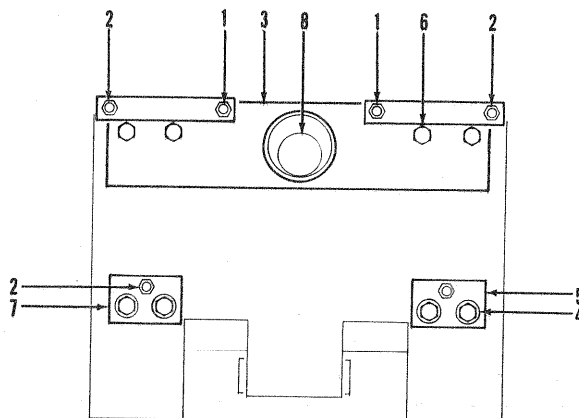
*FOR ROLL OVER PROTECTION EQUIPMENT.
□REQUIRES LOCTITE KIT NO. 230064.

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

MOUNTING STUDS

FOR TRACTOR MODEL 20.



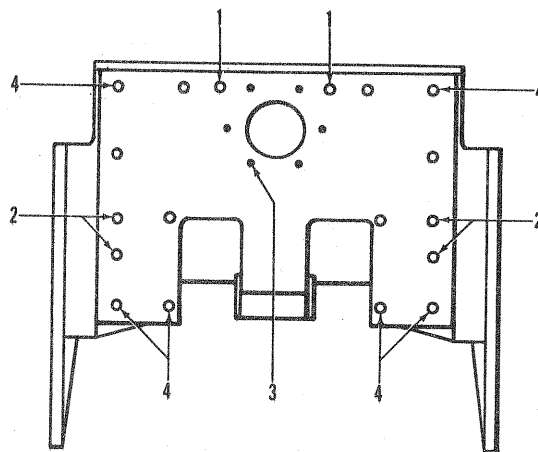
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	* 253817	STUD-DRILLED	2
1	* 55434	O-RING	2
1	134821	NUT-SLOTTED JAM	2
1	15240	COTTER-5/32 X 2-1/2	2
2	192948	STUD	4
2	15168	LOCKWASHER-1 1/4	4
2	15018	NUT-1 1/4 UNF	4
3	255093	ADAPTER-UPPER	1
4	255476	CAPSCREW-METRIC	4

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
5	255096	SPACER-LOWER R.H.	1
6	259549	CAPSCREW-METRIC	4
7	255095	SPACER-LOWER L.H.	1
8	255094	PILOT-PTO	1
8	133921	O-RING	2
	18003	PLUG-NOT ILLUSTRATED	4

*REQUIRES LOCTITE KIT NO. 230064.

MOUNTING STUDS

FOR TRACTOR MODEL D80 A-12.



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	* 213034	STUD	2
1	15240	COTTER-5/32 X 2 1/2	2
1	55434	O-RING	2
1	134821	NUT-SLOTTED-1 1/4 UNF	2
2	156879	PLUG-CORK	4
3	18004	PLUG-CORK	6

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
4	* 213035	STUD	6
4	15018	NUT-1 1/4 UNF	6
4	15168	LOCKWASHER-1 1/4	6

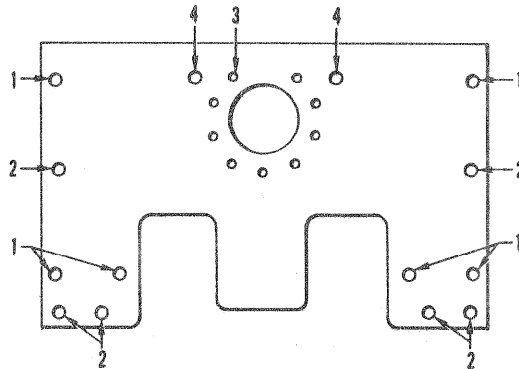
*REQUIRES LOCTITE KIT NO. 230064.

HYSTER COMPANY

 PARTS OPERATIONS
 Danville, Illinois 61832

MOUNTING STUDS

FOR D7 TRACTOR SERIAL NO. 47A1 & UP, 91U & UP, 93N1 & UP.



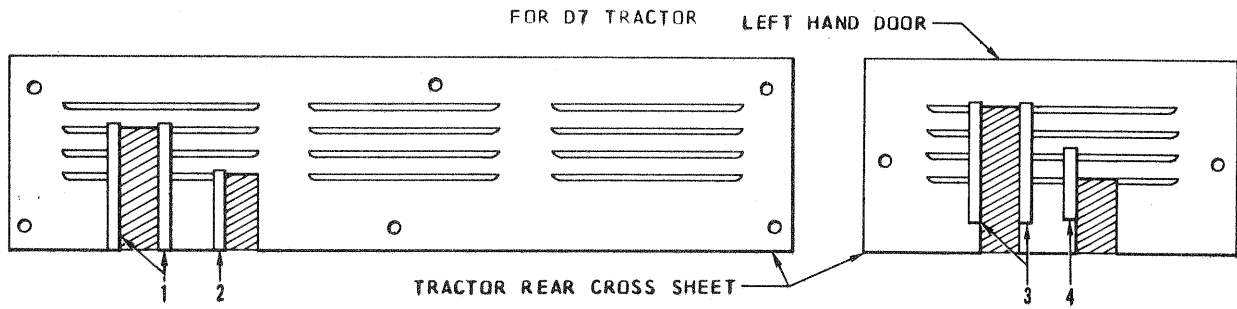
REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.
1	95837	STUD-1 1/4 UNF X 4 11/16	6
1	15168	LOCKWASHER-1 1/4	6
1	15018	NUT-1 1/4 UNF	6
2	18001	PLUG-CORK, #17	6
3	18000	PLUG-CORK, #5	9

REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.
4	95835	STUD-1 1/4 UNF X 3 13/16	2
4	55434	O-RING	2
4	134821	NUT-SLOTTED, 1 1/4 UNF	2
4	15240	COTTER-5/32 X 2 1/2	2

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

TRACTOR ALTERATIONS



KEY

A-FOR TRACTOR SERIAL NO. 47A2081-47A3395.

B-FOR TRACTOR SERIAL NO. 47A3396 & UP, 93N1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.	
			A	B
1	135737	STRIP	2	..
2	135738	STRIP	1	..

REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.	
			A	B
3	135737	STRIP	..	2
4	135738	STRIP	..	1

HYSTER COMPANY

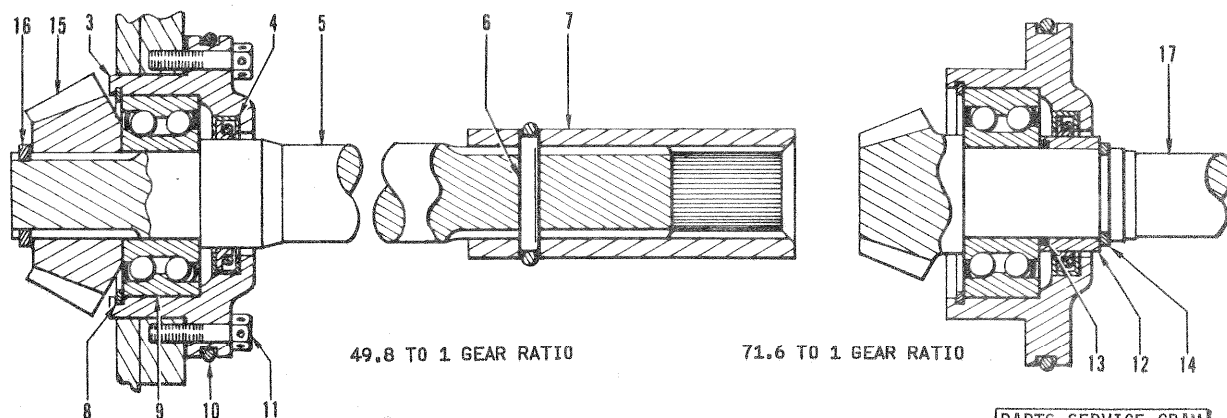
PARTS OPERATIONS
Danville, Illinois 61832

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GEAR TRAIN AND SHAFTS

AUTOMATIC BRAKE.....	2C05
BEVEL GEAR SHAFT.....	2C04
BRAKE SHAFT.....	2C05
CABLE LOCKS.....	2C06
DRUM SHAFT.....	2C06
INTERMEDIATE GEAR SHAFT.....	2C04
POWER TAKE-OFF.....	2C03

POWER TAKE-OFF



KEY

A-FOR TRACTOR MODEL HD-16B
B-FOR TRACTOR MODEL D80A-12

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
3	98362	CARRIER-BEARING	..	1
3	216222	CARRIER-BEARING	1	..
3	134078	SHIM-.005	AR	AR
3	134079	SHIM-.007	AR	AR
4	79389	SEAL-OIL	1	1
5	253797	SHAFT-PTO	1	..
5	223463	SHAFT-PTO	..	1
6	33786	PIN	1	..
6	213139	PIN	..	1
6	9528	RING-LOCK	1	..
6	54112	RING-LOCK	..	1
7	226433	COUPLING	..	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
7	138994	COUPLING	1	..
8	35573	RING-SNAP	1	1
9	125399	BEARING-BALL	1	1
10	109453	O-RING	1	1
11	216542	CAPSCREW-DRILLED	6	6
11		LOCKWIRE	1	1
12	96524	SPACER	1	1
13	133898	O-RING	1	1
14	12944	RING SNAP	..	1
15	96020	GEAR-BEVELED PTO	1	..
16	12916	RING-SNAP	1	..

PARTS SERVICE GRAM	
Item	Gram
5, 15, 16	A1-A-13

POWER TAKE-OFF.

KEY

A-FOR TRACTOR MODEL AD/BD 20
B-FOR D7 TRACTOR SERIAL NO. 47A1 & UP, 93N1 & UP, AND 91U1 & UP.

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
3	216222	BEARING-CARRIER	1	..
3	98362	BEARING-CARRIER	..	1
3	134078	SHIM-.005	AR	AR
3	134079	SHIM-.007	AR	AR
4	79389	SEAL-OIL	1	1
5	132909	SHAFT-PTO	1	..
5	96367	SHAFT-PTO	..	1
6	99563	PIN	1	..
6	9528	LOCKRING	..	1
6	9554	LOCKRING	1	..
7	259533	COUPLING	1	..
7	33785	COUPLING	..	1
7	13987	FITTING-LUBE, 60 DEGREE	2	..
8	35573	RING SNAP	1	1

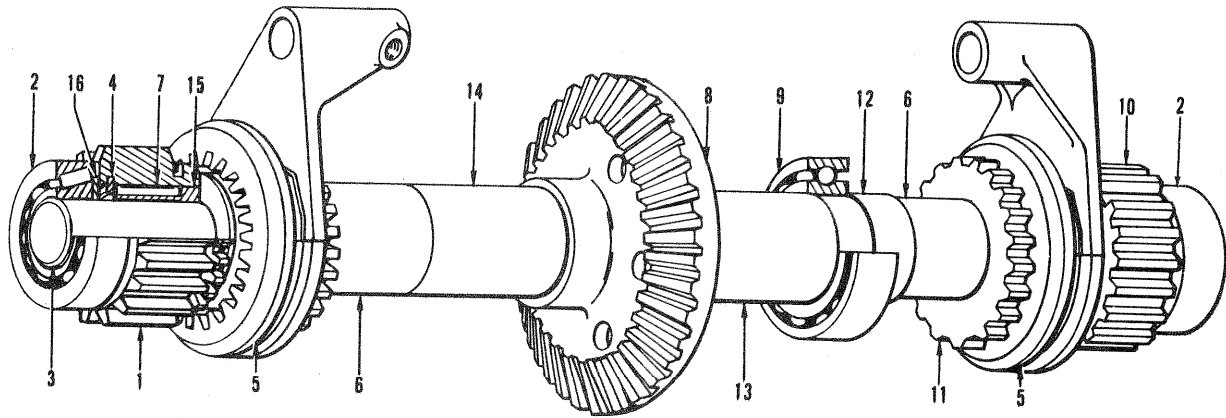
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
9	125399	BEARING-BALL	1	1
10	109453	O-RING	1	1
11	216542	CAPSCREW	6	..
11	169671	CAPSCREW-DRILL HEAD	..	6
11	67355	LOCKWIRE	AR	AR
12	96524	SPACER	1	1
13	133898	O-RING	1	1
14	12944	RING-SNAP	1	1
15	96021	GEAR-BEVEL, SLOW	1	..
15	96028	GEAR-BEVEL, STD.	1	..
15	96020	GEAR-BEVEL	..	1
16	12917	RING-SNAP	..	1
17	96368	SHAFT-PTO	..	1

PARTS SERVICE GRAM	
Item	Gram
5, 6, 7	A1-B-5

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

BEVEL GEAR SHAFT

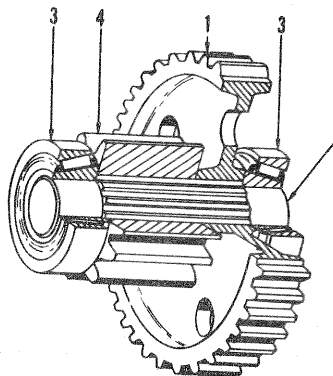


KEY
A-FOR 49.8 TO 1 GEAR RATIO.
B-FOR 71.6 TO 1 GEAR RATIO.

REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.	
		1	2	3	4	A	B
1	95944	GEAR-2ND RED., 22 TEETH				1	1
2	230351	CUP-BEARING				2	2
2	230405	CONE-BEARING				2	2
3	96371	SHAFT BEVEL GEAR				1	1
4	58938	SNAP RING				2	2
5	95946	CLUTCH-DENTAL				2	2
6	96372	SPACER				2	2
7	230407	BEARING-ROLLER				2	2
8	96021	GEAR-BEVEL				1	..
8	96028	GEAR-BEVEL				..	1
9	44316	BEARING-BALL				1	1
10	96413	GEAR-REVERSE PINION				1	..
10	96416	GEAR-REVERSE PINION				..	1
11	95945	HUB-DENTAL CLUTCH				2	2
12	196379	CARRIER-BEARING				1	1
13	196377	SPACER				1	1
14	196376	SPACER				1	1
15	95961	CARRIER-R.H. BEARING				1	1
15	96431	CARRIER-L.H. BEARING				1	1
16	174559	WASHER				2	2

INTERMEDIATE GEAR SHAFT

FOR 49.8 TO 1 AND 71.6 TO 1 GEAR RATIO.

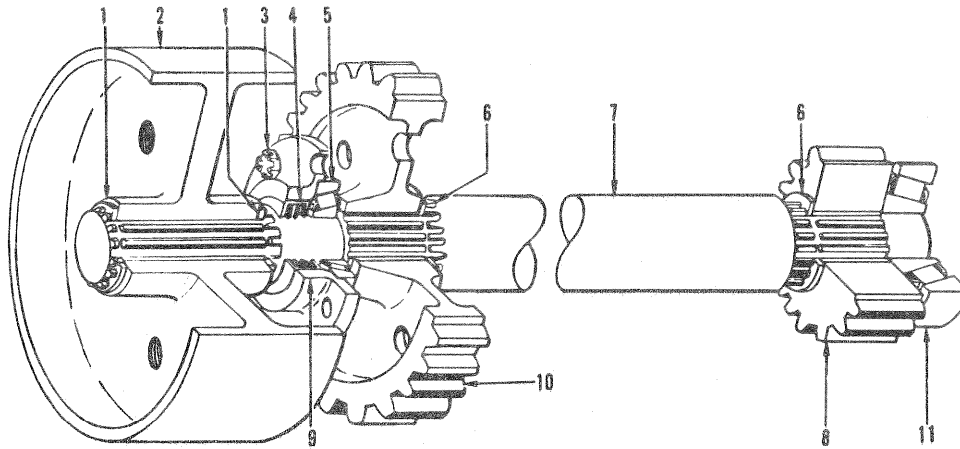


REF. NO.	HYSTER PART NO.	NAME OF PART				QTY.
		1	2	3	4	
1	96418	GEAR-54 TEETH, INTER. SPEED				1
2	92620	SHAFT				1
3	30091	CUP-BEARING				2
3	230309	CONE-BEARING				2
4	92621	GEAR-DRUM PINION, 15 TEETH				1

HYSTER COMPANY

PARTS OPERATIONS
Danville, Illinois 61832

BRAKE SHAFT



KEY

A-FOR 49.8 TO 1 GEAR RATIO.

B-FOR 71.6 TO 1 GEAR RATIO.

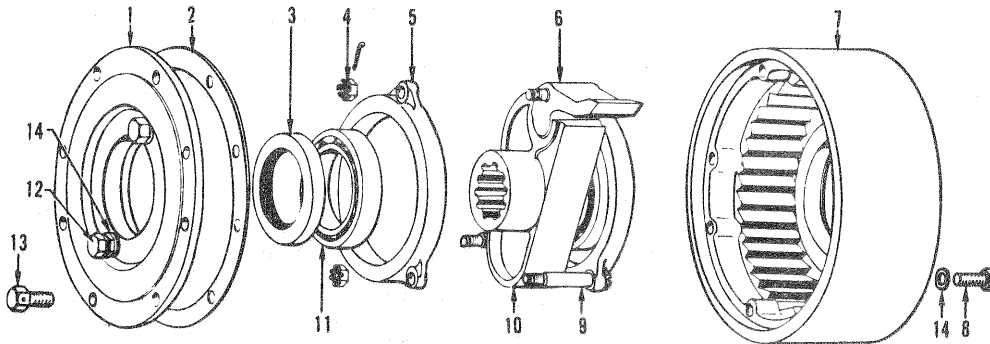
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
1	12940	RING-SNAP	1	1
2	* 92652	WHEEL-BRAKE	1	1
2	92716 A	BRAKE-AUTOMATIC	1	1
3	178402	CAPSCREW-HT., 1/2 UNC X 1-1/4	6	6
3	222091	LOCKWASHER-1/2	6	6
4	87656	SEAL-OIL	1	1
5	230311	CUP-BEARING	1	1
5	230310	CONE-BEARING	1	1
6	12915	RING-SNAP	2	2
7	96432	SHAFT-BRAKE	1	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			A	B
8	96414	GEAR-22 TEETH, INTER. PINION	1	1
8	96417	GEAR-19 TEETH, INTER. PINION	1	1
9	89727	RETAINER-OIL SEAL	1	1
9	* 92649	GASKET	1	1
10	95969	GEAR, 2ND RET., 51 TEETH	1	1
11	30059	CUP-BEARING	1	1
11	30080	CONE-BEARING	1	1

*USED ONLY WITHOUT AUTOMATIC BRAKE.

*INCLUDED IN GASKET KIT 168728.

AUTOMATIC BRAKE



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			1	2
2	92716 A	BRAKE ASSEMBLY-AUTOMATIC	1	1
2	59397	COVER	1	1
2	* 59432	GASKET	1	1
3	33783	SEAL-OIL	1	1
4	15079	NUT-SLOTTED, 3/8 UNF	6	6
4	15212	COTTER-3/32 X 3/4	6	6
5	36006	RING-DRAW	2	2
6	36007	PAWL	1	1
7	59425 A	WHEEL-BRAKE	1	1
8	16642	CAPSCREW-1/2 UNF X 3/4	3	3

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	
			1	2
9	94601	LINK-SHOULDER	3	3
10	92684	HUB	1	1
11	36000	BEARING-BALL	2	2
12	59370	PLUG-VENT, SPECIAL	1	1
13	59927	CPSCR-DRILL HD, 7/16 UNF X 1	8	8
13	67355	LOCKWIRE	1	1
14	* 35159	GASKET-COPPER	4	4

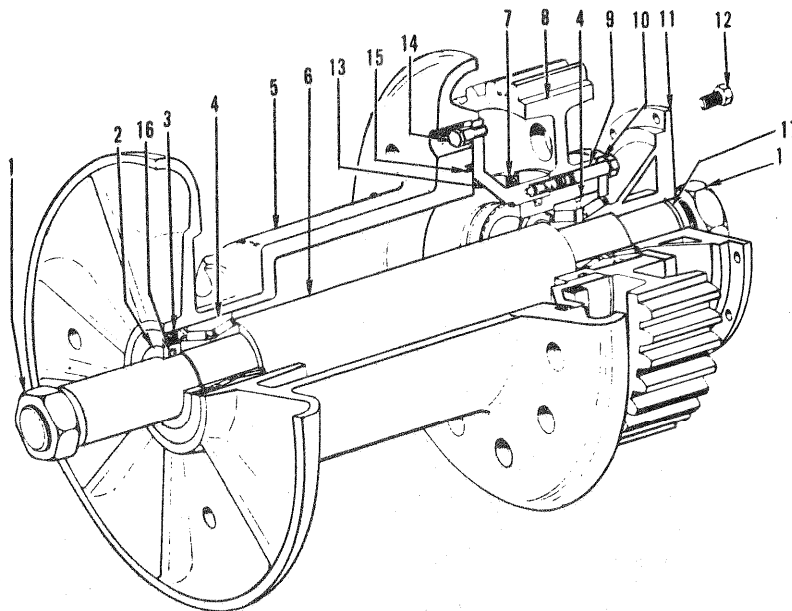
*INCLUDED IN GASKET KIT 168728.

HYSTER COMPANY

PARTS OPERATIONS

Danville, Illinois 61832

DRUM SHAFT

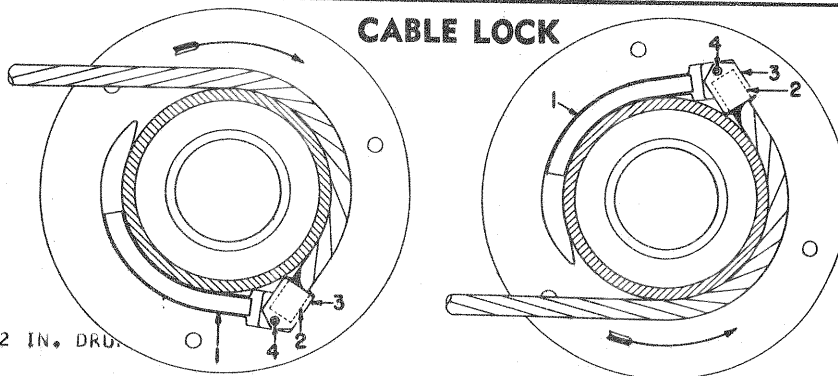


REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
1	□ 6607	NUT-2 1/2 SPECIAL	2
1	* 242832	NUT-2 1/2 SPECIAL	2
2	173604	SPACER	1
3	44484	SEAL-OIL	1
4	96437 A	BEARING-DRUM L.H.	1
4	78022	BEARING-DRUM R.H.	1
5	141357	DRUM-12 IN. STANDARD	1
5	142854	DRUM-8	1
6	173605	SHAFT-DRUM	1
6	\$□ 192856	SHAFT-DRUM	1
6	* 242839	SHAFT-DRUM	1
7	141149	SEAL-OIL	1
8	96436	GEAR-DRUM, 45 & 58 TEETH	1
9	18863	BOLT-PLACE, 5/8 UNF X 4	8
10	96438	PLATE-GEAR RETAINER	1
11	173606	RETAINER-DRUM	1
11	134070	SHIM-.005	AR

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
11	134071	SHIM-.007	AR
11	134072	SHIM-.020	AR
12	178402	CAPSCREW-1/2 UNC X 1 1/4 G5	8
12	15158	LOCKWASHER-1/2	8
13	141325	ADAPTER	1
14	141675	CAPSCREW-5/8 UNF SPECIAL	12
14	53559	DOWEL	12
15	131982	RING-SEAL	1
16	46629	O-RING	1
17	15881	O-RING	1

\$FIRST USED ON SERIAL NO. F47P-2174.
 LAST USED ON SERIAL NO. A127P-1500 AND
 A150P-1500
 *FIRST USED ON SERIAL NO. A127P-1501,
 A150P-1501 AND F47P-1501.
 □LAST USED ON SERIAL NO. F47P-1977.

CABLE LOCK



KEY
 A-FOR STANDARD 12 IN. DRUM
 B-FOR 8 IN. DRUM

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	A B
1	92712	FILLER-CABLE	1 ..
1	96420	FILLER-CABLE	.. 1
2	6697	FERRULE-CABLE	1 1
3	92713	LOCK-FERRULE, OVERWINDING	1 ..
3	92714	LOCK-FERRULE, UNDERWINDING	1 ..

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	A B
3	95499	LOCK-FERRULE	.. 1
4	16823	CAPSCREW	1 ..
4	18850	CAPSCREW-1/4 UNC X 3	.. 1
4	15160	WASHER-1/4	1 ..
4	177947	WASHER-1/4	.. 1

HYSTER COMPANY
 PARTS OPERATIONS
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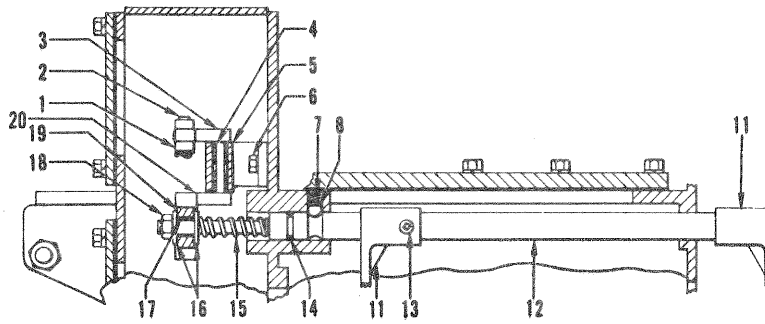
BRAKE AND SHIFTER MECHANISM

BRAKE MECHANISM.....	2D03
HANDLING GEAR.....	2D04
SHIFTER MECHANISM.....	2D03

USE HYSTER APPROVED PARTS... *it pays*

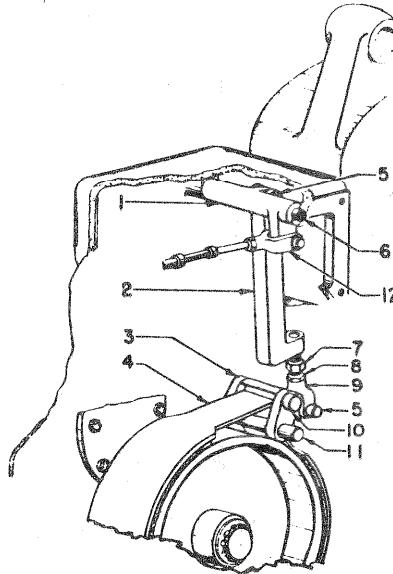
|

SHIFTER MECHANISM



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	92683	ROD END- CLUTCH CABLE	2	9	95951	FORK	2
2	159	PIN-ROD END	2	10	15223	COTTER-1/8 X 1	2
2	15223	COTTER-1/8 X 1	2	10	96373	SHAFT-SHIFTER	1
3	97843 A	CRANK-SHIFTER, UPPER	1	11	27936	LOCKSCREW	2
3	15527	CAPSCREW-3/8 UNF X 1 3/4	1	11	67355	LOCKWIRE	2
3	15156	LOCKWASHER-3/8	1	12	131998	O-RING	1
3	15006	NUT-3/8 UNF	1	13	94655	SPRING	1
4	95615	BUSHING-BRACKET	2	14	33682	WASHER	2
5	164713	BRACKET	1	15	96374	SPACER	1
6	18586	CAPSCREW-1/2 UNC X 7/8 GS	2	16	63085	LOCKNUT-5/8 UNF	1
6	15158	LOCKWASHER-1/2	2	17	33717	SHOE-SHIFTER CRANK	2
7	96375	SPRING	1	18	95636 W	CRANK-SHIFTER, LOWER	1
8	6348	BALL-1/2	1	18	95638	PIN	1

BRAKE MECHANISM

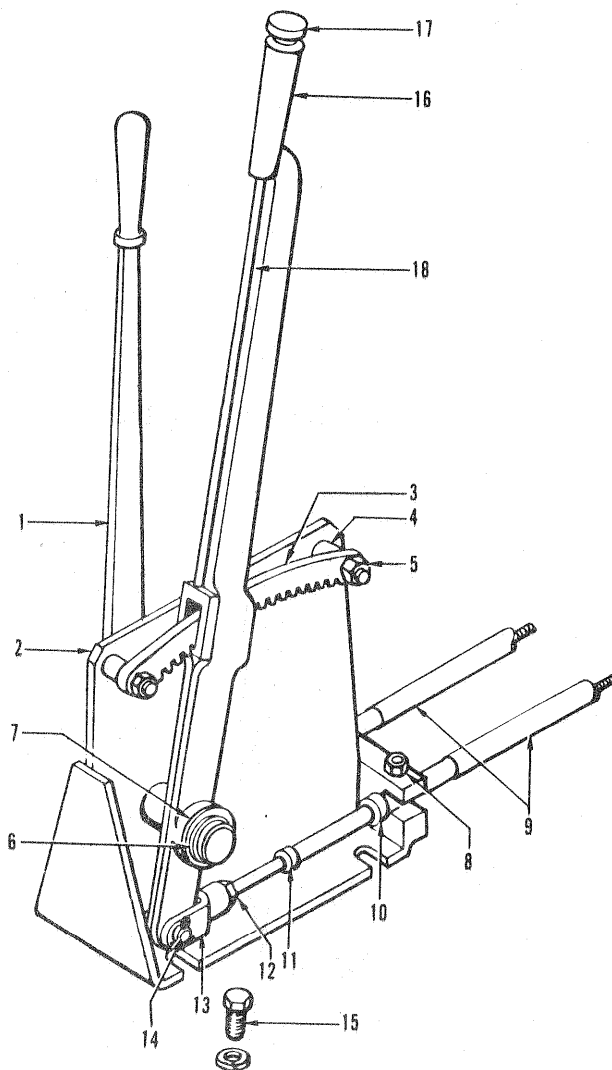


REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.	REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4				1 2 3 4	
1	76699 A	CRANK ASSEMBLY-BRAKE	1	5	15223	COTTER-1/8 X 1	2
1	92705	BUSHING	2	6	165638	PIN-BRAKE CRANK	1
2	76697	LINK-BRAKE	1	7	76696	LINK-ADJUSTING	1
3	76695 A	LEVER ASSEMBLY-BRAKE	1	8	15030	NUT-JAM, 5/8 UNF	1
3	104607	BUSHING	4	9	91629	ROD END	1
4	128391	BAND ASSEMBLY-BRAKE	1	10	96725	PIN-BRAKE LEVER	1
4	128390	BAND-BRAKE	1	10	15226	COTTER-1/8 X 1 3/4	1
4	175032	SPACER	2	11	140741	PIN-BRAKE LEVER	1
4	175902	PLATE-BRAKE BAND	1	12	92683	ROD END-BRAKE CABLE	2
4	90476	LINING-BRAKE BAND	6	12	159	PIN-ROD END	2
4	15800	RIVET	36	12	15223	COTTER-1/8 X 1	2
5	159	PIN-ROD END	2				

HYSTER COMPANY

PARTS OPERATIONS

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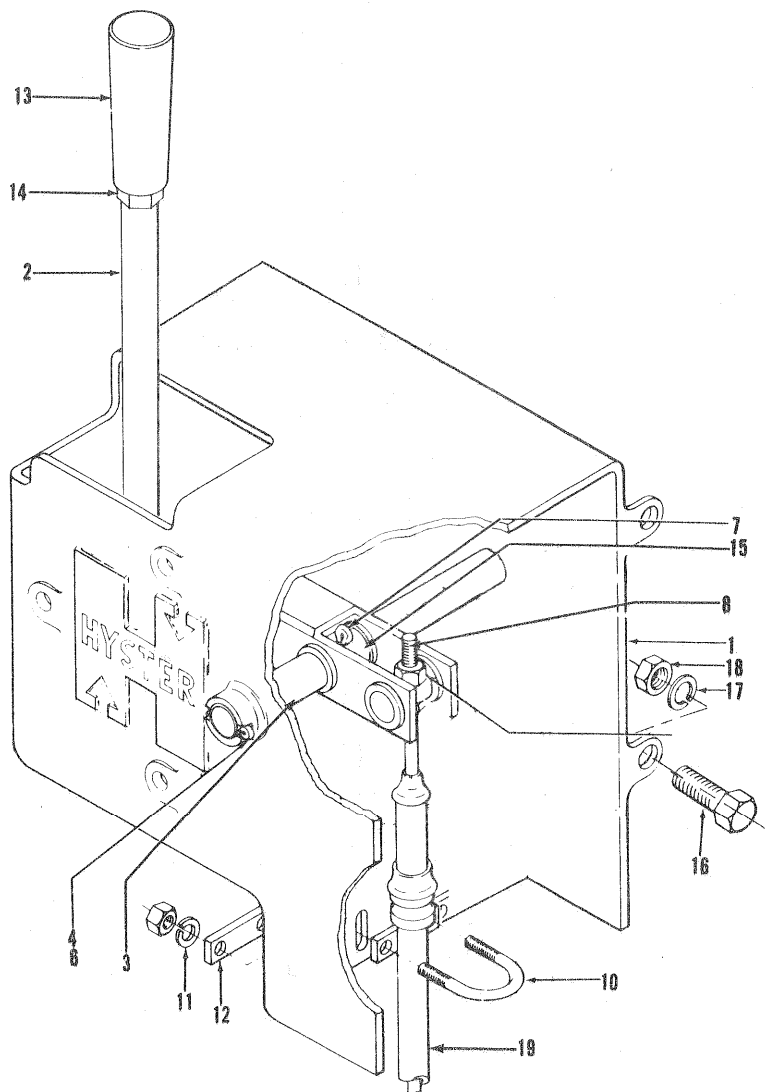
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
12	15026	NUT-JAM, 3/8 UNF	2
13	92683	ROD END	4
14	159	PIN-ROD END	4
14	15223	COTTER-1/8 X 1	4
15	* 18588	CAPSCREW-1/2 UNC X 1 1/2	4
15	16085	CAPSCREW-1/2 UNC X 1 3/4 G5	4
15	15158	LOCKWASHER-1/2	4
15	15058	NUT-1/2 UNC	4
16	77187	A HANDLEVER ASSEMBLY-BRAKE	1
17	79418	BUTTON	1
17	79417	SPRING	1
18	79416	PAWL & ROD	1

*FOR TRACTOR MODEL D80A-12.

PARTS OPERATIONS
Danville, Illinois 61832

HANDLING GEAR

FOR FREESPOOL WINCHE ONLY.



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
	227467	HANDLING GEAR	1
1	196114	HANDLEVER HOUSING	1
2	276031	LEVER	1
3	391016	WASHER	2
4	276041	PIN	1
6	15225	COTTER PIN	2
7	196128	PIN	1
8	18461	CAPSCREW-1/4 UNF X 3/4	1
9	262075	NUT-HEX	1
10	196129	U-BOLT	1

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
		1 2 3 4	
11	15155	LOCKWASHER-5/16	2
12	196130	SPACER	2
13	196469	KNOB	1
14	15030	HEX NUT JAM-5/8 UNF	1
15	271748	SPACER	1
16	16805	CAPSCREW-3/8 UNC X 1	4
17	15156	WASHER-3/8	4
18	18056	NUT-3/8 UNC	4
19	196035	CABLE-PUSH PULL	1
	221342	NUT-1/4 UNF NOT ILLUS.	1

HYSTER COMPANY

PARTS OPERATIONS

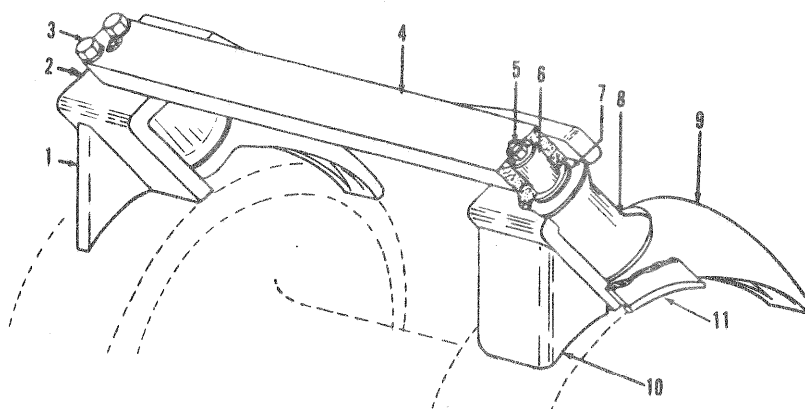
Danville, Illinois 61832

OPTIONAL EQUIPMENT

CABLE GUIDE ROLLERS.....2E03
FAIRLEAD.....2E03
SWIVELING BARS.....2E04

USE HYSTER APPROVED PARTS... *it pays*

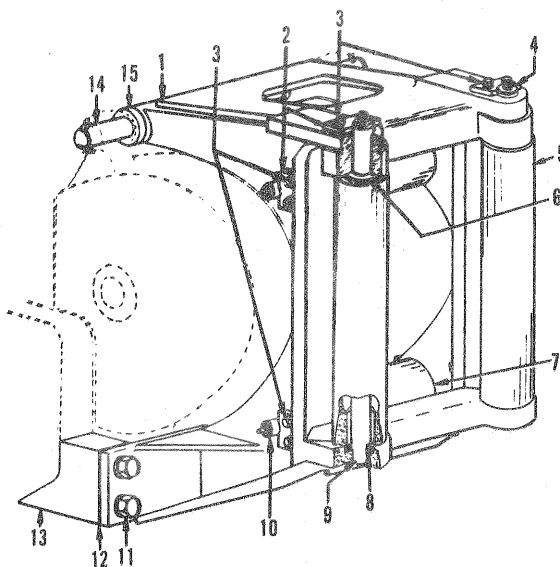
CABLE GUIDE ROLLERS



REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	95892	GUSSET-R.H. BRACKET	1
2	95883 W	BRACKET-R.H. ROLLER	1
2	95891	GUSSET	1
3	16645	CAPSCREW-1/2 UNF X1 G5	4
3	15160	LOCKWASHER-5/8	4
4	95888 W	GUARD-CABLE	1
5	16006	FITTING-LUBE	2

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
6	95669	PIN-ROLLER	2
7	95668	WASHER	6
8	95666 A	ROLLER	2
8	35135	BUSHING	4
9	95879 W	BRACKET-L.H. ROLLER	1
10	95890	GUSSET	1
11	95889	BAR-FILLER	1

FAIRLEAD



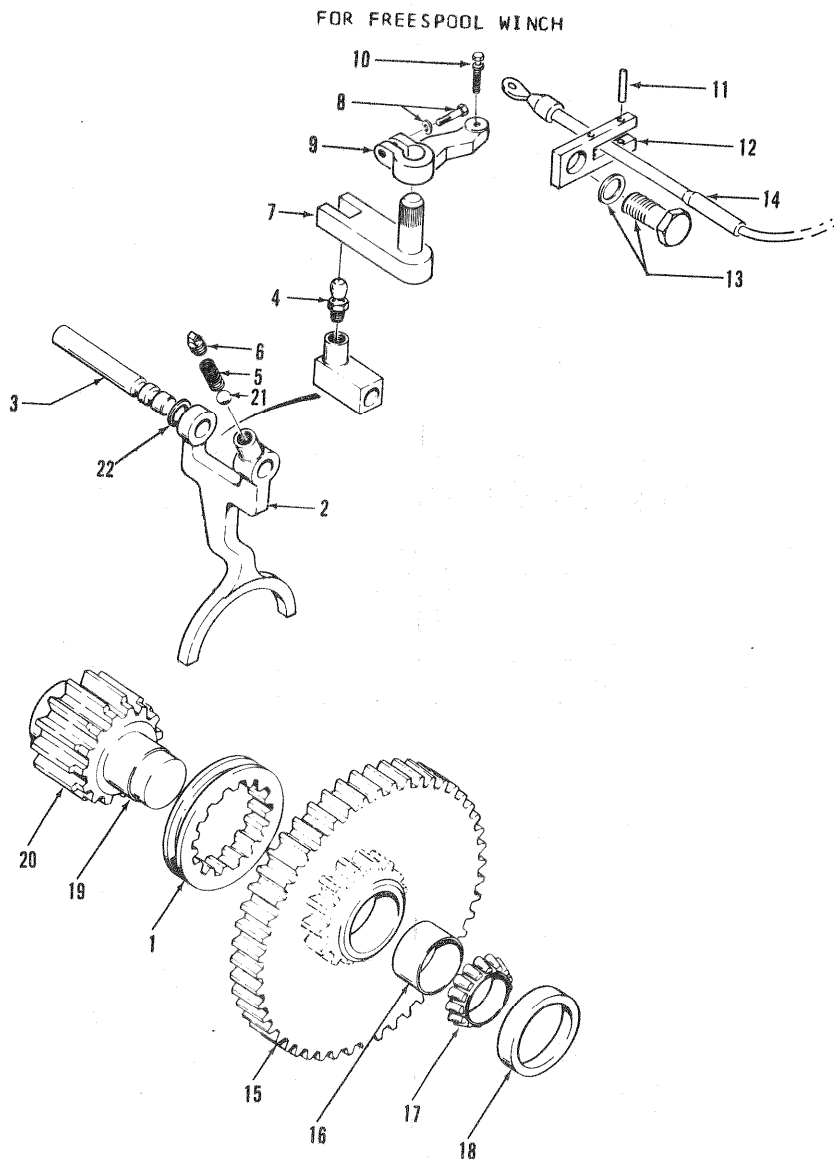
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	95785 W	FRAME	1
2	93166	KEEPER	4
3	37562	CAPSCREW-1/2 UNF X 1-1/4	8
3	15158	LOCKWASHER-1/2	8
4	16001	FITTING-LUBE	8
5	36206 A	ROLLER-VERTICAL	2
5	2570	BUSHING	2
6	33394	WASHER	4
7	92212 A	ROLLER-HORIZONTAL	2
7	59419	BUSHING	2
8	230336	BEARING-BALL, THRUST	4

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
9	93657	SHAFT-VERTICAL ROLLER	2
10	93658	SHAFT-HORIZONTAL ROLLER	2
10	92720	WASHER	4
11	15571	CAPSCREW-1 UNF X 2-3/4	4
11	15166	LOCKWASHER-1	4
12	93985	SHIM-.134	AR
13	142809	BRACKET-R.H. MOUNTING	2
14	92683	ROD-TIE	1
14	15772	COTTER-3/8 X 3	2
15	173607	SPACER	2

HYSTER COMPANY

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SHIFTER AND INTERMEDIATE GEARS



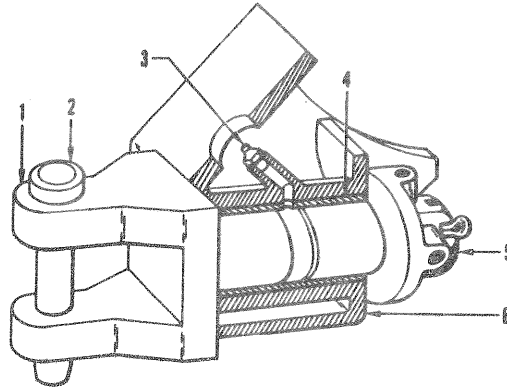
REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
1	258565	CLUTCH-DENTAL	1
2	258562	SHIFTER	1
3	274921	SHAFT-SHIFTER	1
4	151583	STUD-BALL	1
4	15160	LOCKWASHER-5/8	1
5	280985	SPRING-BALL DETENT	1
6	46578	PLUG-DRILLED HEAD	1
6	67355	LOCKWIRE	1
7	151584	CRANKSHAFT	1
8	18588	CAPSCREW-1/2 UNC X 1-1/2	1
8	15158	LOCKWASHER-1/2	1
9	203239	CRANK	1
10	85749	SCREW-SHOULDER	1
11	62499	PIN-ROLL	2

REF. NO.	HYSTER PART NO.	NAME OF PART	QTY.
12	236417	BRACKET-CABLE	1
13	16829	CAPSCREW-1/2 UNC X 7/8	1
13	15158	LOCKWASHER-1/2	1
14	196035	CABLE-PUSH PULL, FREESPOOL	1
15	259459	GEAR ASSEMBLY	1
15	258561	GEAR-INTERMEDIATE	1
16	259460	BUSHING	1
17	30091	CUP-BEARING	2
18	230309	CONE-BEARING	2
19	258560	SHAFT-INTERMEDIATE	1
20	258566	GEAR	1
21	6348	BALL-DETENT	1
22	151646	GASKET	1

HYSTER COMPANY
PARTS OPERATIONS
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SWIVELING DRAWBAR

INCLUDED WITH APPROPRIATE WINCH FRAME



REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.
1	33787	DRAWBAR	1
2	95959	PIN-DRAWBAR	1
2	15273	COTTER-3/8 X 2-1/2	1
3	16002	FITTING-GREASE	1

REF. NO.	HYSTER PART NO.	NAME OF PART 1 2 3 4	QTY.
4	92671	BUSHING	2
5	33618	NUT-SPECIAL	1
5	15295	COTTER-1/2 X 5	1
6	178025	BRACKET-DRAWBAR	1

HYSTER COMPANY

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NUMERICAL INDEX

159 - 201814.....	603
213034 - 391016.....	604

USE HYSTER APPROVED PARTS... *it pays*

NUMERICAL INDEX

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159	2D03	12	18004	2B06	3	87656	2C05	4	96028	2C03	15	141357	2C06	5
2570	2E03	5	18056	2D05	18	89727	2C05	9	96367	2C03	5	141675	2C06	14
6348	2D03	8	18461	2D05	8	90267	2D04	7	96368	2C03	17	142735	2B04	4
6607	2C06	1	18586	2D03	6	90476	2D03	4	96371	2C04	3	142736	2B04	4
6697	2C06	2	18588	2D04	15	91629	2D03	9	96372	2C04	6	142759	2B04	25
9528	2C03	6	18849	2B05	4	92212 A	2E03	7	96373	2D03	10	142760	2B04	18
9554	2C03	6	18850	2C06	4	92606	2B04	2	96374	2D03	15	142761	2B04	18
12915	2C05	6	18863	2C06	9	92620	2C04	2	96375	2D03	7	142809	2E03	13
12916	2C03	16	21420	2B04	31	92621	2C04	4	96413	2C04	10	142854	2C06	5
12917	2C03	16	27936	2D03	11	92623	2B04	24	96414	2C05	8	151583	2E04	4
12940	2C05	1	30059	2C05	11	92649	2C05	9	96416	2C04	10	151584	2E04	7
12944	2C03	14	30080	2C05	11	92652	2C05	2	96417	2C05	8	151646	2E04	22
13987	2C03	7	30091	2C04	3	92671	2E05	4	96418	2C04	1	156879	2B06	2
15006	2D03	3	33394	2E03	6	92683	2D03	12	96420	2C06	1	161848	2B04	25
15018	2B05	1	33618	2E05	5	92684	2C05	10	96423	2B04	10	164680	2B04	29
15026	2D04	12	33682	2D03	14	92705	2D03	1	96424	2B04	10	164691	2B04	15
15030	2D03	8	33717	2D03	17	92712	2C06	1	96425	2B04	17	164708	2B04	15
15056	2D04	5	33783	2C05	3	92713	2C06	3	96426	2B04	17	164713	2D03	5
15058	2D04	15	33785	2C03	7	92714	2C06	3	96431	2C04	15	165638	2D03	6
15064	2B04	4	33786	2C03	6	92716 A	2C05		96432	2C05	7	168728	2C05	
15079	2C05	4	33787	2E05	1	92720	2E03	10	96433	2B04	23	169671	2C03	11
15086	2B04	14	35135	2E03	8	93166	2E03	2	96436	2C06	8	173604	2C06	2
15155	2D05	11	35159	2C05	14	93347	2B05	1	96437 A	2C06	4	173605	2C06	6
15156	2D03	3	35573	2C03	8	93657	2E03	9	96438	2C06	10	173606	2C06	11
15158	2B04	13	36000	2C05	11	93658	2E03	10	96524	2C03	12	173607	2E03	15
15160	2C06	4	36006	2C05	5	93985	2E03	12	96725	2D03	10	173609	2B04	3
15164	2B04	4	36007	2C05	6	94381	2D04	10	97843 A	2D03	3	174559	2C04	16
15166	2E03	11	36206 A	2E03	5	94601	2C05	9	98362	2C03	3	175032	2D03	4
15168	2B05	1	37562	2E03	3	94655	2D03	13	99563	2C03	6	175902	2D03	4
15212	2C05	4	44316	2C04	9	94891	2D04	4	104607	2D03	3	177947	2C06	4
15223	2D03	12	44484	2C06	3	95499	2C06	3	109453	2C03	10	178020	2B04	4
15225	2D05	6	46578	2E04	6	95615	2D03	4	110934	2B04	21	178025	2B04	4
15226	2D03	10	46629	2C06	16	95636 W	2D03	18	110935	2B04	12	178402	2B04	13
15240	2B05	2	53559	2C06	14	95638	2D03	18	110936	2B04	21	178403	2B04	11
15272	2B04	2	54112	2C03	6	95666 A	2E03	8	125399	2C03	9	178576	2D04	2
15273	2B04	5	55289	2B04	21	95668	2E03	7	128390	2D03	4	179443	2B04	16
15295	2E05	5	55434	2B05	2	95669	2E03	6	128391	2D03	4	183403	2B04	25
15302	2B04	21	58907	2D04	6	95750	2D04	1	131982	2C06	15	183404	2B04	25
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15319	2B04	19	59370	2C05	12	95785 W	2E03	1	132909	2C03	5	189497	2B04	4
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