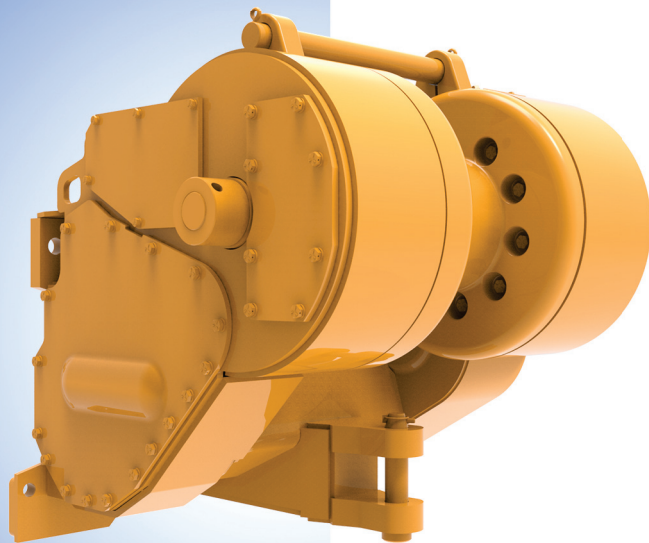




# Parts Manual



## Allied W6F

### Power Controlled Towing Winch

Please check the Allied Systems website  
regularly for updates to this manual.  
[www.alliedsystems.com](http://www.alliedsystems.com)

# CUSTOMER EDITION

A PRODUCT OF  
**Allied Systems**  
COMPANY

SHERWOOD, OREGON USA

P/N 599750W

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# Safety Precautions

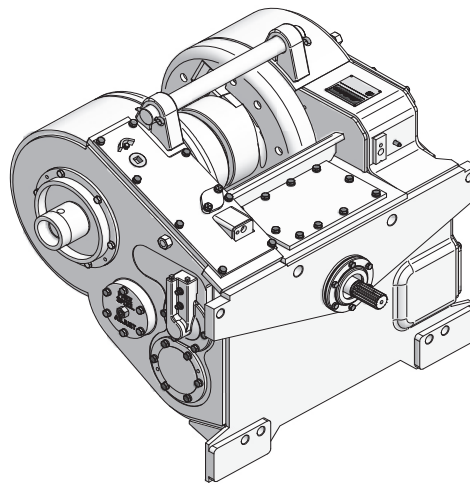
**Read, understand and observe the Safety Summary  
on pages 0-3 through 0-5  
to prevent injury to personnel and damage to equipment.**

Winch serial number \_\_\_\_\_

Date put into service \_\_\_\_\_

**NOTE: This publication may be translated to different languages for sole purpose  
of easy reference in non-English speaking locations.  
Should there be differences in interpretations to the text,  
please refer to the English language edition published by Allied Systems Company  
as the controlling document.**

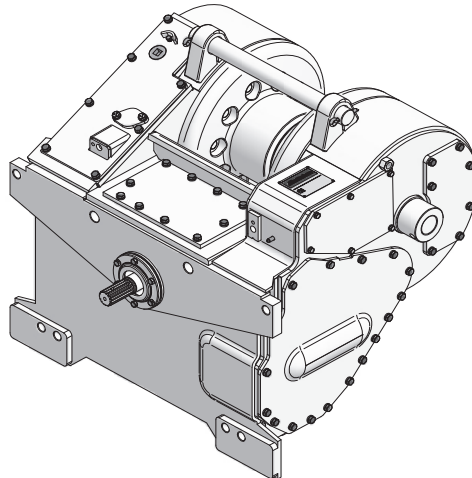
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## Safety Summary

### General Safety Notices

The following pages contain general safety warnings which supplement specific warnings and cautions appearing elsewhere in this manual. All electrical and hydraulic equipment is dangerous. You must thoroughly review and understand the Safety Summary before attempting to operate, troubleshoot or service this winch.

The following symbols and terms are used to emphasize safety precautions and notices in this manual:

### DANGER

The “DANGER” symbol indicates a hazardous situation which, if not avoided, will result in serious injury or death. Carefully read the message that follows to prevent serious injury or death.

### WARNING

The “WARNING” symbol appears wherever incorrect operating procedures or practices could cause serious injury or death. Carefully read the message that follows to prevent serious injury or death.

### CAUTION

The “CAUTION” symbol appears where a hazardous situation which, if not avoided, could result in minor to moderate injury and equipment damage.

### NOTICE

This signal word alerts to a situation that is not related to personal injury but may cause equipment damage.

NOTE: ...

The term “NOTE” highlights operating procedures or practices that may improve equipment reliability and/or personnel performance.

NOTE: All possible safety hazards cannot be foreseen so as to be included in this manual. Therefore, you must always be alert to potential hazards that could endanger personnel and/or damage the equipment.

### Safety Regulations

Each country has its own safety legislation. It is in the operator’s own interest to be conversant with these regulations and to comply with them in full. This also applies to local bylaws and regulations in force on a particular worksite.

Should the recommendations in this manual deviate from those in the user’ country, the national regulations should be followed.

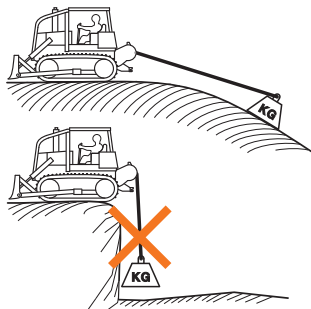
### Operation, Inspection, and Maintenance Warnings

### WARNING

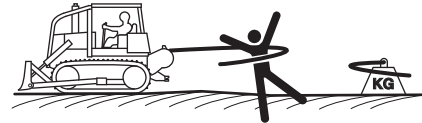
**Obey the following cautions and warnings before using your winch to avoid equipment damage, personal injury or death.**

- Do not operate the winch unless your are authorized and trained to do so.
- Do not operate the winch unless the vehicle is equipped with a screen to protect the operator if the wire rope breaks.
- Read, understand, and follow the operating, inspection, and maintenance instructions in this manual.
- Do not use the control levers for hand holds when entering or leaving the vehicle.
- Do not permit other people near the control area when you inspect or repair a machine.
- Never inspect, repair, or perform maintenance on a machine that is in motion.
- Inspect the winch before each use:
  - » Make sure that the controls and instruments operate correctly.
  - » Report the need for repairs immediately.
  - » Do not work with a damaged or worn wire rope.
  - » Do not use a winch that needs repairs.

- » If the wire rope and ferrule must be removed from the drum, make sure the end of the wire rope and ferrule are controlled when the ferrule is released. The end of the wire rope can suddenly move from the drum like a compressed spring when the ferrule is released, and cause an injury.
- Stay in the operator's seat when operating the winch.
- Do not stand on the vehicle when operating the winch.
- Avoid winch operation near people or other machines.
- Never stand nor permit others to stand in the bight (loop) of a wire rope.
- Do not stand nor permit others to be near the winch or wire rope when there is tension on the wire rope.
- Observe jobsite rules.
- Be in complete control at all times.
- Do not use the control levers as hangers for clothes, water bags, grease guns, lunch pails, etc.
- Do not leave the vehicle when the winch wire rope is under tension.
- Do not permit riders on the vehicle or load.
- Do not use the winch as an anchor for a double or two-part line.
- Do not pull the hook through the throat or over the drum, which will cause damage.
- When the winch is not in use, make sure the control lever is in **BRAKE-ON** position and the winch brake is applied.
- Do not use winch as a hoist. Tractor and skidder mounted winches are designed for towing.



- Always inspect wire rope, tail chain and other rigging components for wear, damage, broken strands or abuse before use.
- Never use wire rope, tail chain or other rigging that is worn-out, damaged or abused.
- Never overload wire rope, tail chain or rigging.
- Wire rope and tail chain will fail if worn-out, overloaded, misused, damaged, improperly maintained or abused. Wire rope or tail chain failure may cause serious injury or death!



- Do not terminate wire rope to tail chain by the use of a knot.
- Do not handle wire rope if the hook end is not free. A load could break away, suddenly tensioning the wire rope, resulting in serious injury or death.
- Stay clear of wire rope entry areas (fairlead or arch rollers, winch drum etc).
- Make sure ground personnel are in plain view of the operator, and at a distance of at least 1½ times the working length of the wire rope.
- Make sure that any hand signals used by ground personnel are clearly defined and understood by everyone involved.
- Do not attempt to “jerk” or “shock” a load free. Doing so can cause loads in excess of the rated capacity of the wire rope, winch, or mounting hardware.
- Replace any parts only with genuine Allied Winch parts.
- Maintain a **minimum of three (3) complete wraps of wire rope** on the drum for normal operation. It may help to paint the last five wraps of wire rope a contrasting color, to serve as a visual indicator.

- Do not handle wire rope with bare hands. Wear leather gloves at all times.
  - Align the tractor with the load to prevent side loading the winch, and to maintain even spooling of the wire rope.
  - If applying tension to the wire rope manually during spooling:
    - » ensure that the operator is winching in slowly,
    - » keep your hands and clothing well clear of any rollers or the winch drum,
    - » do not maintain tension by letting the wire rope to slip through your hands,
    - » use a hand-over-hand technique to maintain tension.
  - Be aware of the ground conditions, and make sure the ground and tractor are stable enough to pull the intended load.
  - Do not attempt to pull loads in excess of the rated capacity of the winch.
  - Keep yourself informed of any applicable codes, regulations and standards for the job.
  - Your winch may have temperature shut-off system for protection of tractor and winch. Manual override of high temperature shut-off will cause damage to tractor and winch.
  - This winch is neither intended, designed, nor rated for any application involved in the lifting or moving of personnel.
  - Use only the lubricants listed in the Recommended Oil List. See page 0-12.
  - Do not weld on any part of the winch. Contact Allied Systems if weld repairs are needed.
  - The hydraulic system must be kept clean and free of contamination at all times.
- Be aware of the hazards of pressurized hydraulics:
    - » Wear personal protective equipment, such as gloves and safety glasses, whenever servicing or checking a hydraulic system.
    - » Assume that all hydraulic hoses and components are pressurized. Relieve all hydraulic pressure before disconnecting any hydraulic line.
    - » Never try to stop or check for a hydraulic leak with any part of your body; use a piece of cardboard to check for hydraulic leaks.
    - » Small hydraulic hose leaks are extremely dangerous, and can inject hydraulic oil under the skin, even through gloves.
    - » Infection and gangrene are possible when hydraulic oil penetrates the skin. See a doctor immediately to prevent loss of limb or death.



## Unit Identification

### Allied Winch S/N Nameplate Data For Tractor Mountings

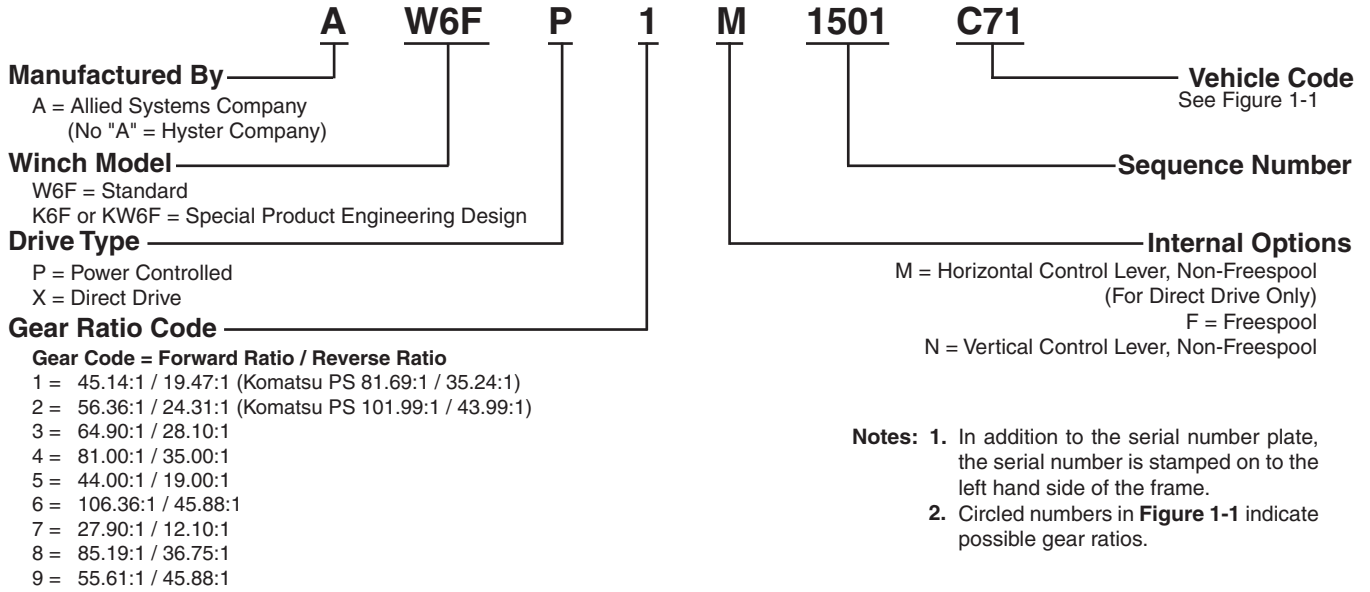


Figure 1-1 Tractor Identification and Gear Ratio\_1

Tractor Make Model and Starting Tractor Serial Number Where Applicable											
C O D E	A New Holland/ Fiat-Hitachi	C Caterpillar	E John Deere	H International, Dresser, Dressta	K Komatsu	L Liebherr	M MF	N Zoomlion	R Case	U Shantui	X Xuanhua
32			750/750B, 755 W/CAB ③ ④ ⑥ ⑧								
40		527 ① ② ⑥ ⑧ ⑨				732B ⑥ ⑧					
41	11B PS ①	D5B 24X 25X D5E PS 95J 96J ① ② ④	750/750B, 755 W/O CAB ③ ④ ⑥ ⑧	TD15B/C PS, 175C ① ② ④ ⑥ ⑧ ⑨	D60E-6, D60E-8, D60LE-8, D70LE ② ③ ④ ⑥ ⑧		D600C/D ①	1550 ② ③ ④ ⑥ ⑧ ⑨		T150F ① ② ⑥ ⑧	
42	11B DD ①	D5B D53-DD 22X 23X 26X ① ② ④	850/850B W/ CAB ⑥ ⑧ ⑨	TD15BG DD, 501 ① ② ④	D65A/E6 D65E-7 ① ② ④						
43	12G ①	D6D PS 3X 4X 5X 10X 76A, D6E PS ① ② ④ ⑥ ⑧ ⑨	850/850B W/O CAB ② ③ ④ ⑥ ⑧ ⑨	250C/E ① ② ④ ⑥ ⑧ ⑨	D65S-6 ①						
44	FL 14B, 14B PS, 14C ①	D6D DD 3X 5X 74A 99J, D6E DD ① ② ④ ⑥ ⑧	855 ①	TD15E PS ① ② ④ ⑥ ⑧ ⑨	D75S-3 ①						

**Unit Identification**  
**Allied Winch S/N Nameplate Data For Tractor Mountings**

Figure 1-1 Tractor Identification and Gear Ratio\_2

Tractor Make Model and Starting Tractor Serial Number Where Applicable											
C O D E	A New Holland/ Fiat-Hitachi	C Caterpillar	E John Deere	H International, Dresser, Dressta	K Komatsu	L Liebherr	M MF	N Zoomlion	R Case	U Shantui	X Xuanhua
45	14B 14C DD FD14 ①②③	977 ①②④ ⑥⑧⑨	750C, 750C II ⑥⑧	TD15E DD ①② ④⑥⑧	D65-8, D65E-8 D68-1 ①②						
46	F/H14C FD14 ①②③ ⑥⑧⑨	977L ①②④	850C, 850C II PS ②⑥ ⑧⑨	TD15H ⑥⑨	D65E-12 D65EX-12 D65EX-15 D65PX-12 D65PX-15 ①②			ZD160 ⑥⑧⑨		SD16 ①	
462			850J & K ⑥⑧⑨								
464			750J & K ⑥⑧⑨								
47	F/H10C F/H10C PS ①②③ ⑥⑧⑨			TD15H- TIER II, TD15M ⑥⑨	D61EX-12 ①②						
470		D5R2 ①②④ ⑥⑧⑨									
48	FD14E, FD175, DX175, DX195L ①② ⑥⑧⑨	D6H*, D6R* ①②④ ⑥⑧⑨									
480		D6H* D6R PS ①②④ ⑥⑧⑨									
481		D6H DD ①②④ ⑥⑧⑨									
49	New Holland DC-180 ⑥⑧⑨								1850K ⑥⑧⑨		

**Unit Identification**  
**Allied Winch S/N Nameplate Data For Tractor Mountings**

Figure 1-1 Tractor Identification and Gear Ratio\_3

Tractor Make Model and Starting Tractor Serial Number Where Applicable											
C O D E	A New Holland/ Fiat-Hitachi	C Caterpillar	E John Deere	H International, Dresser, Dressta	K Komatsu	L Liebherr	M MF	N Zoomlion	R Case	U Shantui	X Xuanhua
50		D6R* ⑥ ⑧ ⑨									
71		D6R II, III; D6T ⑥ ⑧ ⑨									
711		D6R2 ⑥ ⑧ ⑨ S/N's PPP, SSS, TTT									
73		D6G ⑥ ⑧ ⑨									
81		D6N ⑨ W/Diff-Steer After 09/2005**									
82		D6G2 ⑥ ⑧ ⑨									
<p>* D6H and D6R have separate tractor codes after winch serial number AW6F-4442.            See Tractor code C71 for D6R Series II.            **C81 effective with tractor S/N's: Tier II: AKM01794, ALY02066            Tier III: DJA-----, DJY-----, GHS, MLW, LJR</p>											

**Figure 1-2 List of Installation Drawings by Tractor**  
**W6F INSTALLATION DRAWINGS BY TRACTOR**

Winch Serial Number	Description	Installation Drawing Part Number
<b>Power Control</b>		
W6FP**A46	W6F FIAT 14C & FD14	286047W
W6FP**A47	W6F FIAT 10C	335455W
W6FP**A48	W6F F/H FD14E & FD175	1321652W
W6FP**A49	W6F NEW HOLLAND DC-180	2304802W
W6FP**C40	W6F CAT 527	2302314W
W6FP**C43	W6F CAT D6D PS	282143W
W6FP**C46	W6F CAT 977L	300643W
W6FP9FC470	W6F CAT D5R2	2314960
W6FP**C480	W6F CAT D6 H/R PS	383151W
W6FP**C481	W6F CAT D6 H/R PS	383151W
W6FP**C49	W6F CAT D6 H/R PS	383171W
W6FP**C50	W6F CAT D6R	383151W
W6FP**C71	W6F CAT D6R SERIES II & III, D6T	383151W
W6FP**C711	W6F CAT D6R2, S/N PREFIXES PPP, SSS & TTT	2315800
W6FP**C73	W6F CAT D6G	2307251W
W6FP**C82	W6F CAT D6G2	2310210
W6FP**E41	W6F JD750B	225099W
W6FP**E42	W6F JD850B	225099W
W6FP**E43	W6F JD850B	225099W
W6FP**E44	W6F JD750B	225099W
W6FP**E45	W6F JD750C	2301767W
W6FP**E46	W6F JD850C	2301767W
W6FP9FE462	W6F JD 850 J&K	2313837
W6FP9FE464	W6F JD 750 J&K	2313837
W6FP**H41	W6F DRESSER TD15C	268495W
W6FP**H44	W6F DRESSER TD15E PS	373649W
W6FP**H45	W6F DRESSER TD15E DD	373649W
W6FP**H46	W6F DR TD15H PS	373649W
W6FP**H47	W6F DRESSER TD15H TIER II, TD15M	373649W
W6FP**K45	W6F KOM D65-1/D65-8	347001W
W6FP**K46	W6F KOMATSU D65EX-12	2300314W
W6FP**K47	W6F KOMATSU D61EX-12	2303690W
W6FP**L40	W6F LIEBHERR 732 B	2304895W
W6FP**N46	W6F ZOOMLION ZD160	2315525
W6FP**R41	W6F CASE 1550	1310781W
W6FP**R49	W6F CASE 1850K	2304802W
W6FP1FU46	W6F SHANTUI SD16	2313557
<b>Direct Drive</b>		
W6FX**C44	W6FDD CAT D6D DD	281940W
W6FX**K41	W6FDD KOM D60-6 OR -8	226642W
W6FX**X41	W6FDD XUANHUA T150F	2302178W
W6FX**CX1	W6FDD Cat 955L Traxcavator (Similar to D6D with FA drop box)	SKS 6403-18

**Notes:**

1. This list is for operators to keep track of necessary information of their winch installation drawings by tractors.
2. If any of the installation drawings listed above is needed, please contact the Engineering Department of Allied Systems Company.



# How to Use the Illustrated Parts Manual

**5** **G 03**

Index-Numerical											
Part No	Page	Part No	Page	Part No	Page	Part No	Page	Part No	Page	Part No	Page
130W	1007	23	1008	22	15162W	1804	12	161	16		
1008	21	1009	18	1010	19	15163W	1803	3			
1009	27	1011	8	1012	10	15164W	1802	2			
1010	32	1013	6			15165W	1801	4			
1011	28					15166W	1800	7			
1012	31	15080W	1010	24		1A09	1				
1013	30	1011	18			1A08	6				
2816W	1804	2	18108W	1007	10	1A07	8				
2817W	1804	4	1008	6	18168W	1A06	9				
2821W	1804	3	13110W	1A05	8	1A05	8				
6346W	1003	15	1011	15	15178W	1004	23				
7043W	1804	5	15130W	1004	22	1003	2				
9544W	1808	31	1007	8	1008	10	1008	1			
1807	22	1010	3								
1808	22										
9563W	1809	15	1011	12	1010						
1809	24	15139W	1012	7	1011						
1808	20	15137W	1A08	4	1013						
1807	31	1A11	11		15225W	1010					
		15184W	1A07	1							

**3** **A 03**

**Index-Master**

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Brake	D02	2-23
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	A11	1-2
	G02	1-4
	A09	4-2
	C10	1-2
	E04	2-18
		5-15

**9** **D 12**

**Gear-Handling**

Caterpillar D4H D6H and D6H with Esco Grapple Before Grapple S/N HY-9458

**6**

**7** **8**

Item No	Part No	Description	Qty	Ref No
1	333827W	Cover	1	24
2	381182W	Bronzet	1	3
3	19432W	Lackmusher	2	2
4	13044W	Nut	2	2
5	198128W	Pin	2	1
6	190029W	Ring-Snap	2	1
7	13139W	Washer-Flat	2	1
8	198130W	Spacer	4	1
9	15159W	Lackmusher	4	1
10	13065W	Nut	4	1
11	198129W	Li-Bolt	2	1
12	15159W	Lackmusher	2	1
13	278037W	Lever	1	1
14	198144W	Bushing	1	1
15	278043W	Bushing	1	1
16	243188W	Knob	1	1
17	278038W	Lever	1	1
18	198144W	Bushing	2	1
19	278043W	Bushing	1	1
20	13000W	Nut-Jam	1	1
21	198489W	Knob	1	2
22	363879W	Handlever	1	2
23	271731W	Decal	1	1

**1** **A 02**

**Index-Illustrated**

Ref	Item	Page
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5	Index-Numerical	5-1

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## How to Use the Illustrated Parts Manual

### When the part number and the next higher assembly are not known:

1. 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 the next higher assembly is known:

1. Determine the assembly the required part is used on. Turn to the master index immediately following the illustrated index.
2. Locate the assembly on which the required part is used, 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:

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, descriptions, quantities required, keys and footnotes to help in selecting the correct parts.
- Keys are used to show effective serial numbers for two or more similar assemblies, LH and RH assembly parts, etc. Select the appropriate key, "A", "B", "C", or "D" and the corresponding quantity column to find the required parts.
- Indent dots are used to indicate assemblies and sub-parts of assemblies. No dot or number 1 indicates the major assembly. Part descriptions which are indented with dots or under 2, 3 or 4 are sub-parts of the major assembly shown above.
- Quantities shown are for one assembly. Note that when two assemblies are shown, but the quantity of the sub-parts is indicated as three, this means three per assembly - for a total of six. AR means As Required, and NSS indicates Not Sold Separately.
- Serial numbers are shown to allow for the most current parts information to be incorporated into the parts manual. Contact your local winch dealer for serial number information.

### 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 winch/tractor dealer, or contact Allied Systems Company:

Allied Systems Company  
21433 SW Oregon Street  
Sherwood, OR 97140 U.S.A.

Phone: 503-625-2560  
Fax: 503-625-5132  
E-Mail: parts@alliedsystems.com

Also see our website, [www.alliedsystems.com](http://www.alliedsystems.com), where the most current copy of this manual is always available.

## W6F Oil Specifications

## Recommended Oil List

<b>Recommended Oils* - General Conditions</b>			
Manufacturer	Oil Type	Ambient Temperature Range	
		°F	°C
ExxonMobil	Mobil Fluid 424 (Factory fill)	-13 to 105	-25 to 43
John Deere	Hy-Gard™	-13 to 122	-25 to 50
Chevron	1000 THF	-13 to 105	-25 to 43
Caterpillar	Multipurpose Tractor Oil (MTO)	-13 to 104	-25 to 40
Case	Hy-Tran Ultra	-20 to 122	-30 to 50
<b>Recommended Oils* - Low Temperature Conditions</b>			
Manufacturer	Oil Type	Ambient Temperature Range	
		°F	°C
ExxonMobil	Mobil Fluid LT	-40 to 86	-40 to 30
John Deere	Low Viscosity Hy-Gard	-40 to 86	-40 to 30
Chevron	THF W	-40 to 86	-40 to 30

\* Note: Use of non-recommended oils may void warranty.

Figure 3 Recommended Oil List

**Note:** Refer to Winch Maintenance decal on page 1-89 for more information.

### Oil Capacity

The oil capacity for the W6F winch is 16.5 gal. (62.4L) for the models without an input gearbox, and 17 gal. (64.3L) for the models with an input gearbox.

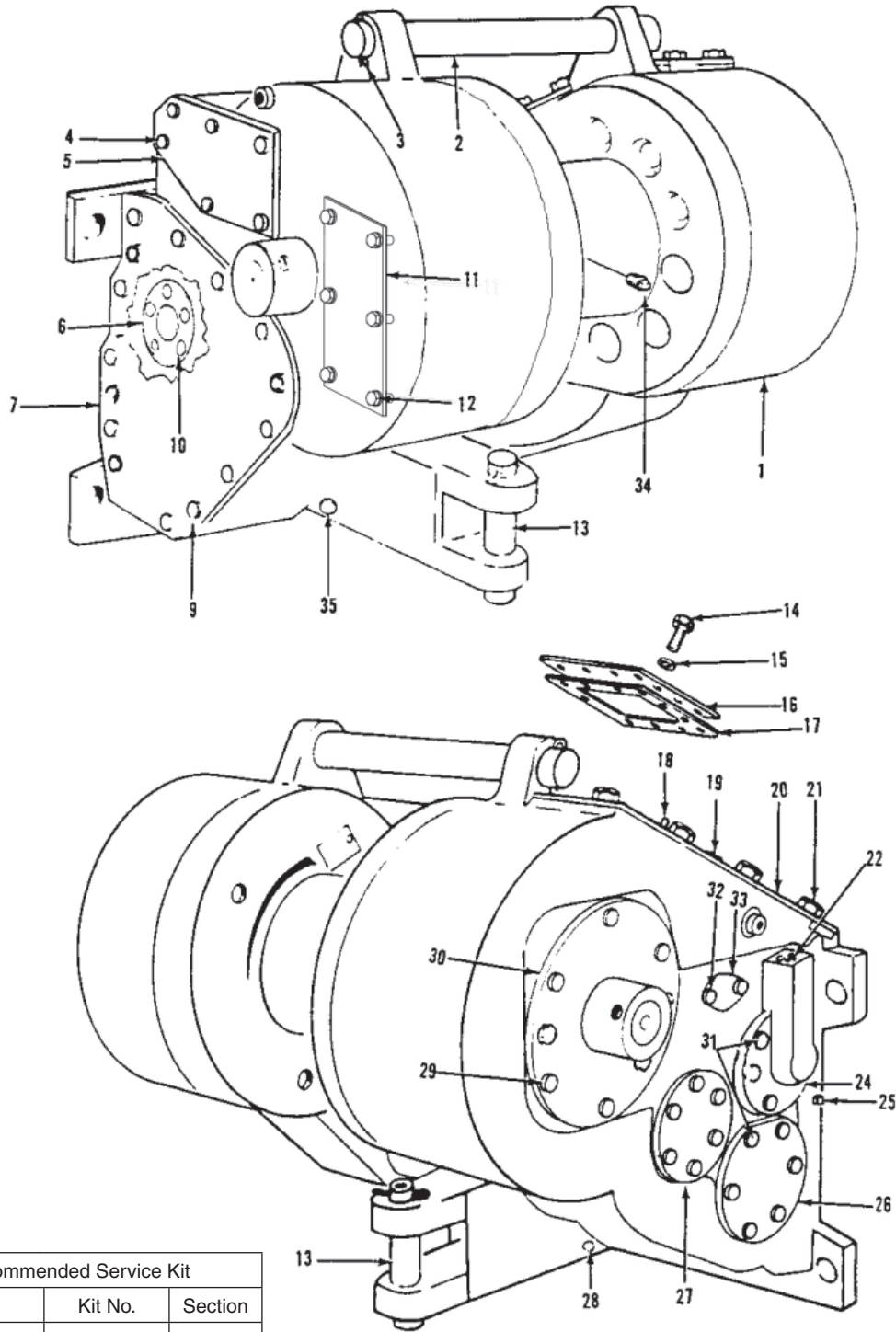


## Frame/Covers/Decals/Mounting Parts

Frame/Covers .....	1-2 thru 1-9
Mounting Parts .....	1-10 thru 1-80
Nameplate & Decals .....	1-81

### Frame/Covers

Direct Drive  
 Last Used on S/N AW6FX-4336  
 Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
5 (201862W), 7 (95954W), 11 (185974W), 17 (224799W), 20 (95958W), 33 (151646W)	201871W	5-1

Parts Service Gram	
Item	Gram
27	Contact your dealer.

**Frame/Covers**

Direct Drive

Last Used on S/N AW6FX-4336

Page 2 of 2

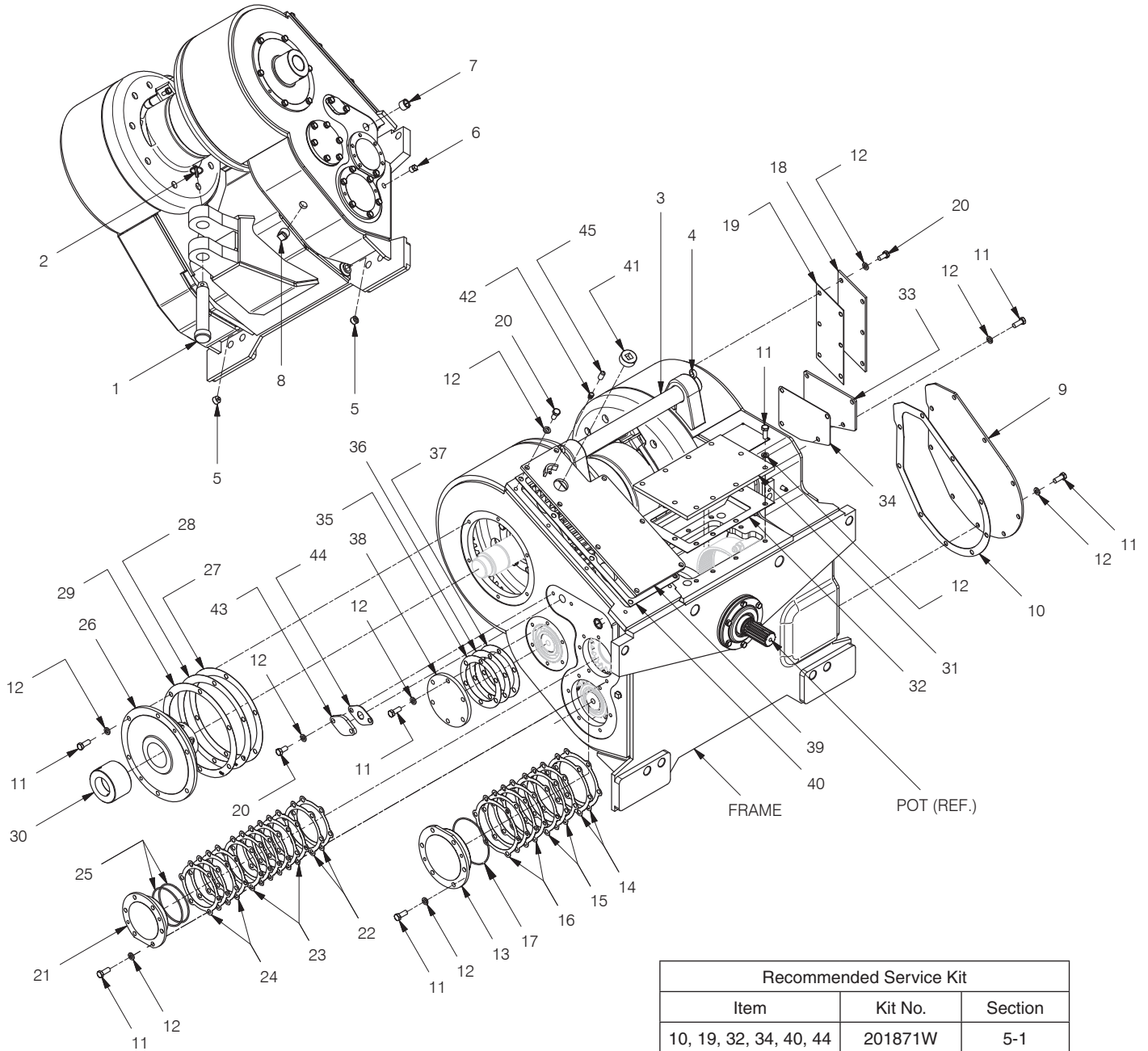
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	-----	Frame	1	21	15158W	Lockwasher	10
2	196280W	Rod, Tie	1	22	15320W	Fitting	1
3	15272W	Pin, Cotter	2	24	95948W	Retainer, Bearing	1
4	178403W	Capscrew	4	24	110934W	Shim .005	AR
4	15158W	Lockwasher	4	24	110935W	Shim .007	AR
5	201861W	Cover	1	24	110936W	Shim .020	AR
5	201862W	Gasket, Cover	1	24	55289W	O-Ring	2
6	95942W	Carrier, Bearing	1	25	15320W	Fitting	1
6	110934W	Shim .005	AR	26	95970W	Carrier, Bearing	1
6	110935W	Shim .007	AR	26	95033W	Shim .005	AR
6	110936W	Shim .020	AR	26	95166W	Shim .007	AR
7	95953W	Plate, Cover	1	26	95034W	Shim .020	AR
7	95954W	Gasket	1	26	15895W	O-Ring	1
9	178402W	Capscrew	9	27	*b -----	Cover, Intermediate Shaft	1
9	15158W	Lockwasher	9	28	15316W	Plug	1
10	178402W	Capscrew	6	29	178403W	Capscrew	6
10	15158W	Lockwasher	6	29	15158W	Lockwasher	6
11	185973W	Plate, Cover	1	30	172810W	Retainer	1
11	185974W	Gasket	1	30	175646W	Shim .005	AR
12	178402W	Capscrew	6	30	175647W	Shim .007	AR
12	15158W	Washer	6	30	175648W	Shim .020	AR
13	95959W	Pin, Drawbar	1	31	178402W	Capscrew	18
13	15273W	Pin, Cotter	1	31	15158W	Lockwasher	18
14	178402W	Capscrew	10	32	178403W	Capscrew	2
15	15158W	Lockwasher	10	32	15158W	Lockwasher	2
16	224798W	Plate, Transmission Cover	1	33	151589W	Plate	1
17	224799W	Gasket, Transmission Cover	1	33	151646W	Gasket	1
18	15306W	Fitting	1	34	15308W	Fitting	1
18	21420W	Plug, Breather	1	35	*a 15316W	Fitting	3
19	15319W	Fitting	1				
20	201858W	Cover, Top	1		*a	First Used on S/N AW6F-1001 for Fiat Allis 10C 14C and for Caterpillar D6H	
20	95958W	Gasket, Top Cover	1		*b	See Pages 2-78 thru 2-85	
21	178403W	Capscrew	10				

# Frame/Covers

Direct Drive

First Used on S/N AW6FX-4337

Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
10, 19, 32, 34, 40, 44	201871W	5-1

**Frame/Covers**

Direct Drive

First Used on S/N AW6FX-4337

Page 2 of 2

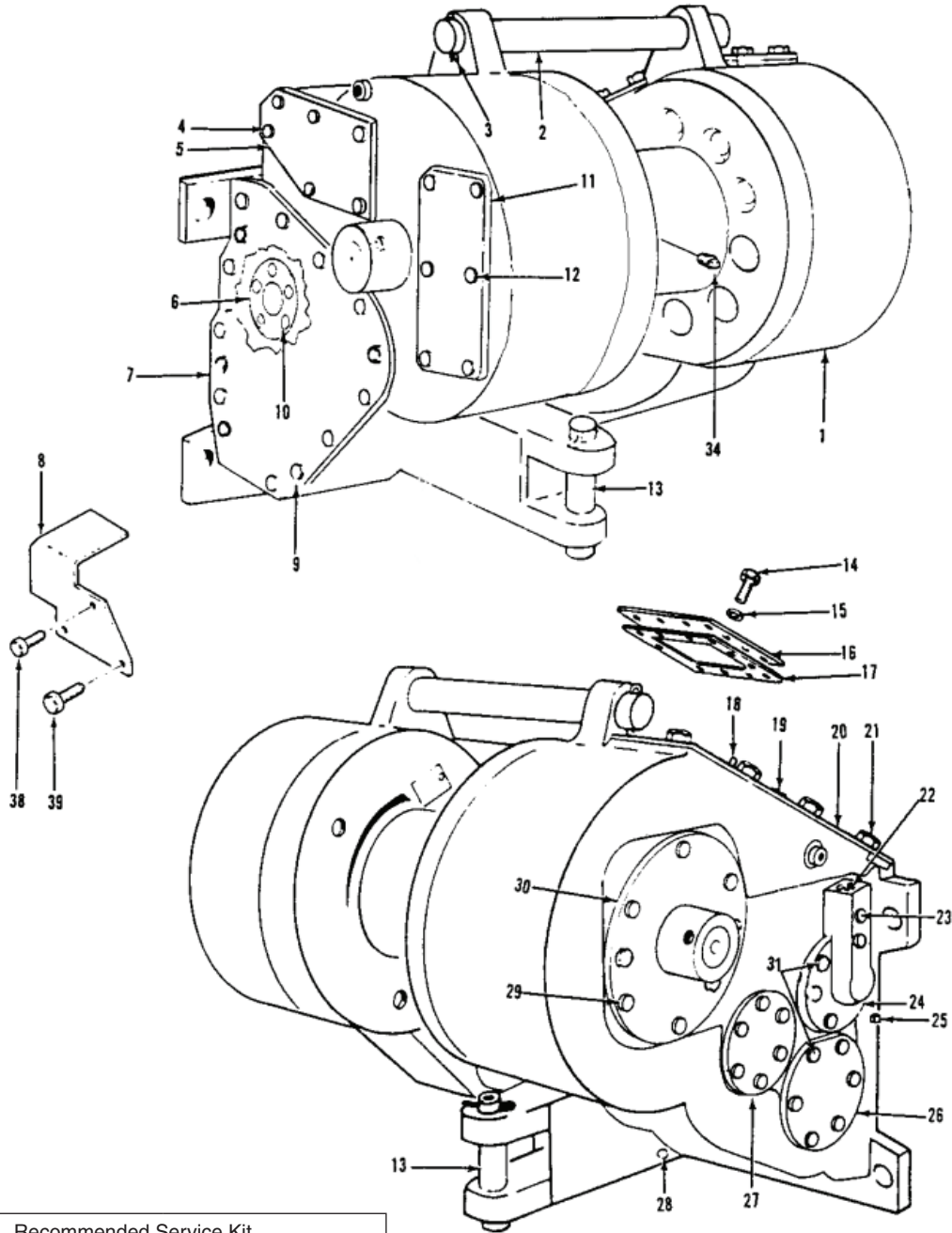
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	95959W	Pin, Drawbar	1	25	55289W	O-Ring	2
2	2303221W	Pin, Retaining	1	26	*a 172810W	Retainer, Drum	1
3	196280W	Rod, Tie	1	27	175646W	Shim .005	AR
4	15272W	Cotter	2	28	175647W	Shim .007	AR
5	10389W	Fitting, Pipe	2	29	175648W	Shim .020	AR
6	15303W	Plug, Pipe Fitting	1	30	242831W	Nut, Drum	2
7	15320W	Plug, Pipe Fitting	1	31	224798W	Plate, Transmission Cover	1
8	15308W	Plug, Pipe Fitting	1	32	224799W	Gasket, Transmission Cover	1
9	95953W	Plate, Cover	1	33	201861W	Plate, Cover	1
10	95954W	Gasket, Cover	1	34	201862W	Gasket	1
11	178402W	Capscrew	53	35	*a 149541W	Shim .005	2
12	15158W	Lockwasher	63	36	*a 149542W	Shim .007	2
13	95970W	Carrier, Bearing	1	37	*a 149543W	Shim .020	2
14	95033W	Shim .005	2	38	280262W	Retainer, Bearing	1
15	95166W	Shim .007	3	39	201858W	Cover, Top	1
16	95034W	Shim .020	4	40	95958W	Gasket, Top Cover	1
17	15895W	O-Ring	1	41	15319W	Fitting	1
18	185973W	Plate, Cover	1	42	21420W	Plug, Breather	1
19	185974W	Gasket, Cover	1	43	151589W	Plate	1
20	178403W	Capscrew	16	44	151646W	Gasket	1
21	95948W	Retainer, Bearing	1	45	2300962W	Cap, Breather	1
22	110934W	Shim .005	2				
23	110935W	Shim .007	6		*a Use 280472W Adhesive/Sealant		
24	110936W	Shim .020	4				

# Frame/Covers

Power Control

Last Used on S/N AW6FP-4336

Page 1 of 2



**With Freespool**

Recommended Service Kit		
Item	Kit No.	Section
11 (185990W)	2311384	5-1
11 (185990W)	2311385	5-1
5 (224780W), 7(286042W), 11(185990W), 17(224799W), 20(95958W), 26(15895W), 33(151646W)	267494W	5-1

Parts Service Gram	
Item	Gram
27	Contact your dealer.

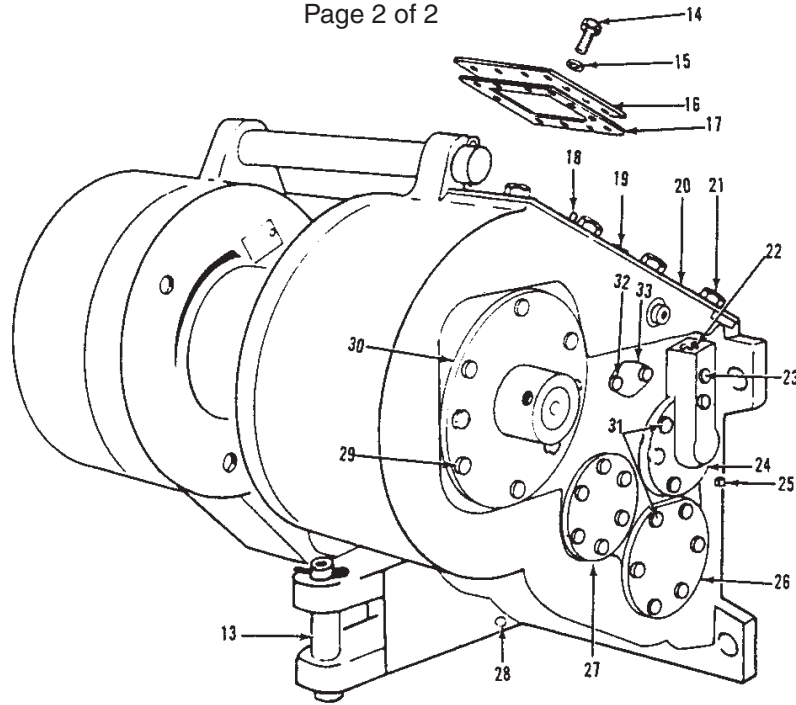


# Frame/Covers

Power Control

Last Used on S/N AW6FP-4336

Page 2 of 2



Key  
A-With Freespool  
B-Without Freespool

## Without Freespool

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	-----	Frame	1	1	21	15158W	Lockwasher	10	10
2	196280W	Rod, Tie	1	1	22	15307W	Fitting	2	2
3	15272W	Pin, Cotter	2	2	23	225264W	Capscrew	2	2
4	179443W	Capscrew	6	6	23	15158W	Lockwasher	2	2
4	15156W	Lockwasher	6	6	24	224023W	Retainer, Bearing	1	1
5	224779W	Cover, Valve	1	1	24	225255W	Shim .005	AR	AR
5	224780W	Gasket	1	1	24	225256W	Shim .007	AR	AR
6	224024W	Retainer, Bearing	1	1	24	225257W	Shim .020	AR	AR
6	225259W	Shim .005	AR	AR	24	55289W	O-Ring	1	1
6	225260W	Shim .007	AR	AR	25	15303W	Fitting	1	1
6	225261W	Shim .020	AR	AR	26	95970W	Carrier, Bearing	1	1
7	286041W	Plate, Cover	1	1	26	95033W	Shim .005	AR	AR
7	286042W	Gasket	1	1	26	95166W	Shim .007	AR	AR
8	*a 267507W	Guard, Hose	1	1	26	95034W	Shim .020	AR	AR
9	178402W	Capscrew	17	17	26	15895W	O-Ring	1	1
9	15158W	Lockwasher	17	17	27	*b -----	Cover, Intermediate Shaft	1	1
10	16830W	Capscrew	5	5	28	15316W	Plug	1	1
10	15158W	Lockwasher	5	5	29	178403W	Capscrew	8	8
11	2300508W	Plate, Filter Cover	1	1	29	15158W	Lockwasher	8	8
11	185990W	Gasket, Filter Cover	1	1	30	172810W	Retainer	1	1
12	178402W	Capscrew	6	6	30	175646W	Shim .005	AR	AR
12	15158W	Lockwasher	6	6	30	175647W	Shim .007	AR	AR
13	95959W	Pin, Drawbar	1	1	30	175648W	Shim .020	AR	AR
13	15273W	Pin, Cotter	1	1	31	178402W	Capscrew	17	17
14	178402W	Capscrew	10	10	31	15158W	Lockwasher	17	17
15	15158W	Lockwasher	10	10	32	178403W	Capscrew	2	
16	224798W	Plate, Transmission Cover	1	1	32	15158W	Lockwasher	2	
17	224799W	Gasket, Transmission Cover	1	1	33	151589W	Plate	1	
18	15306W	Fitting	1	1	33	151646W	Gasket	1	
18	21420W	Plug, Breather	1	1	34	15308W	Fitting	1	1
19	15319W	Fitting	1	1	38	*a 16815W	Capscrew	1	1
20	203233W	Cover, Top	1	--	39	*a 18588W	Capscrew	2	2
20	201858W	Cover, Top	--	1					
20	95958W	Gasket	1	1					
21	178403W	Capscrew	10	10					

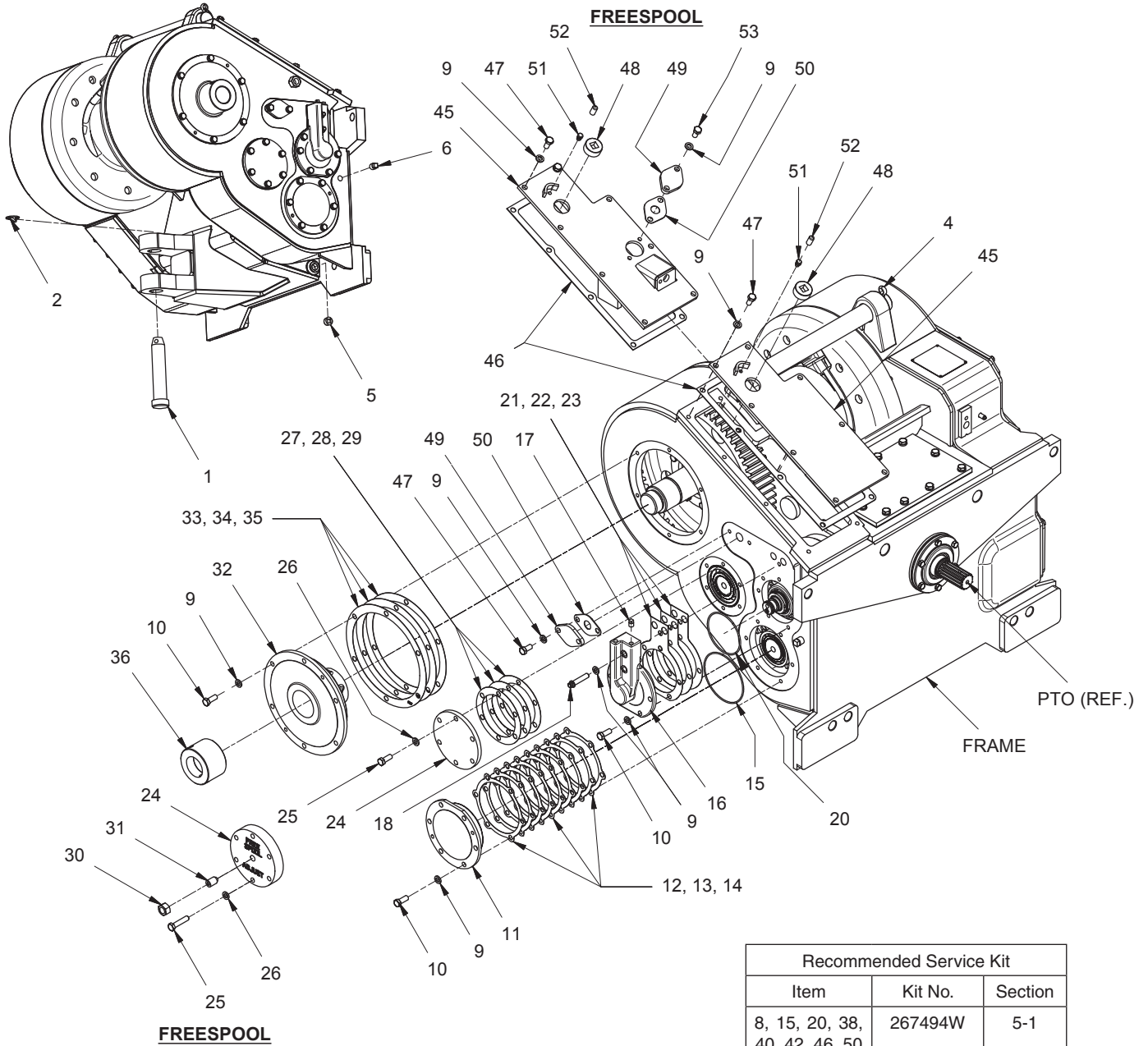
\*a Last Used on S/N W6F-7143 and AW6FP-1000  
\*b See Pages 2-78 thru 2-85

# Frame/Covers

Power Control

First Used on S/N AW6FP-4337

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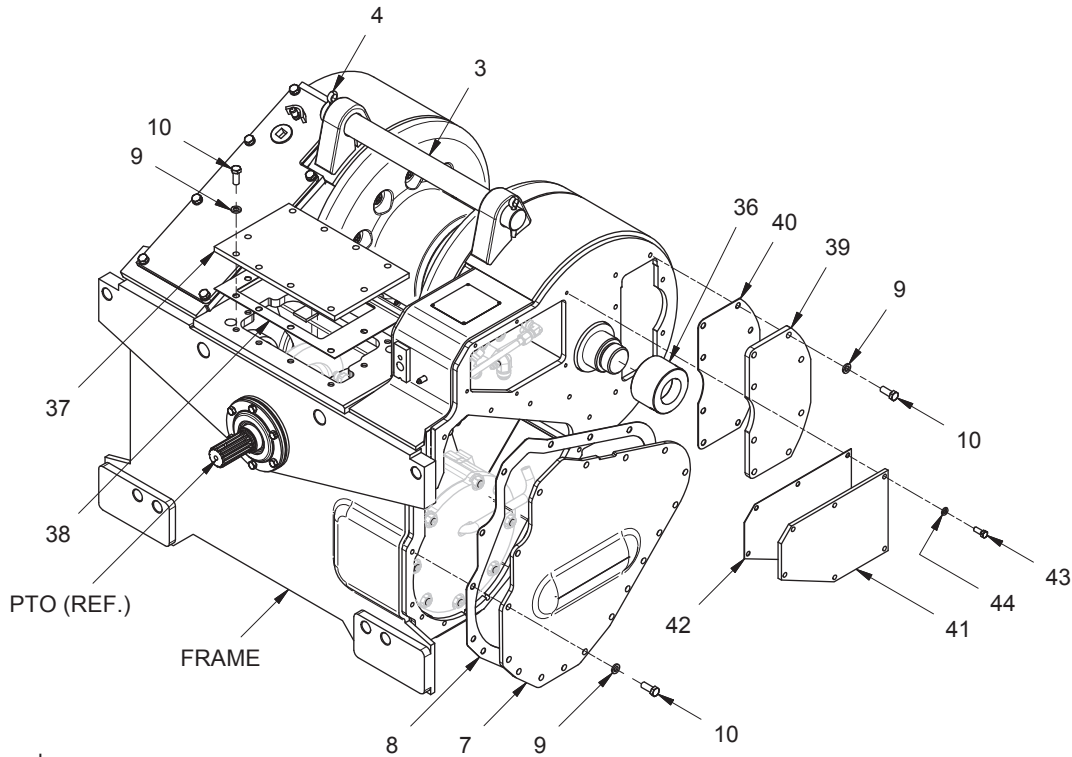


# Frame/Covers

Power Control

First Used on S/N AW6FP-4337

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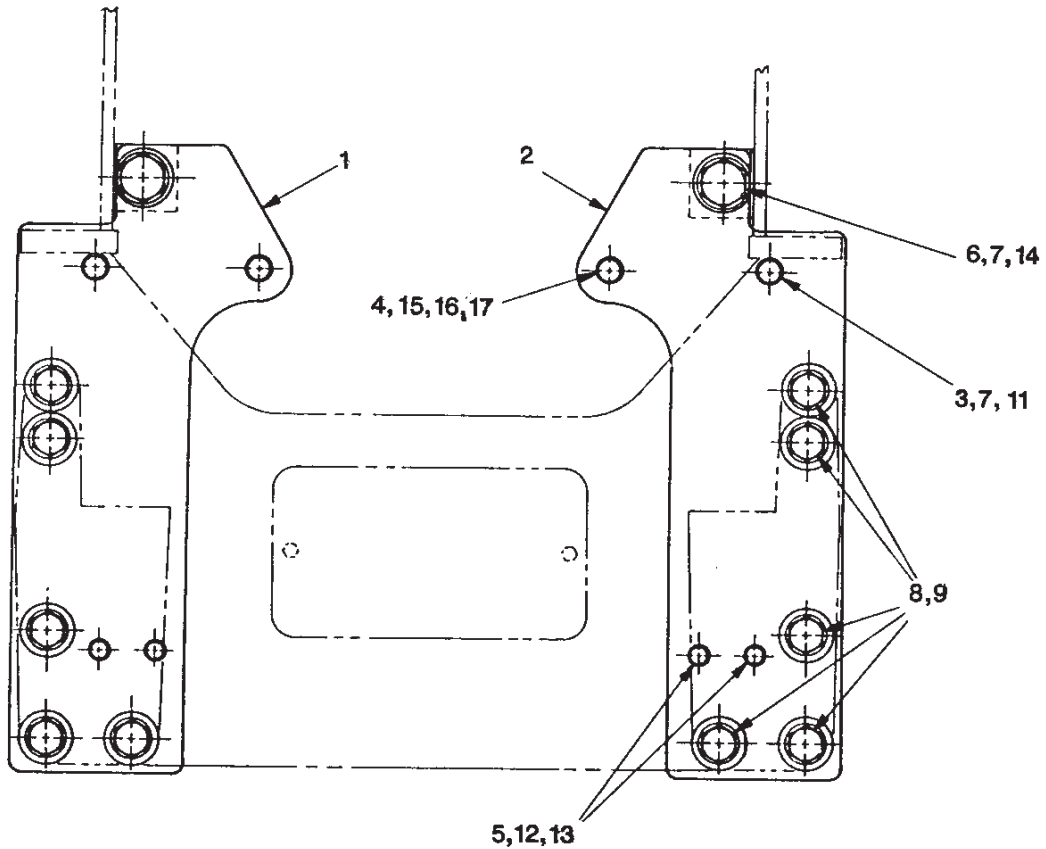


Key  
 A-With Freespool  
 B-Without Freespool

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	95959W	Pin, Drawbar	1	1	29	149543W	Shim .020	--	2
2	2303221W	Pin, Retaining	1	1	30	221717W	Nut	1	--
3	196280W	Rod, Tie	1	1	31	2304803W	Screw	1	--
4	15272W	Pin, Cotter	2	2	32	172810W	Retainer, Drum	1	1
5	10389W	Fitting, Pipe	1	1	33	175646W	Shim .005	AR	AR
6	15303W	Plug, Pipe Fitting	1	1	34	175647W	Shim .007	AR	AR
7	286041W	Cover, Plate	1	1	35	175648W	Shim .020	AR	AR
8	286042W	Gasket	1	1	36	*a 242831W	Nut, Drum	2	2
9	15158W	Washer	88	88	37	224798W	Plate, Transmission Cover	1	1
10	178402W	Capscrew	52	52	38	224799W	Gasket, Transmission Cover	1	1
11	95970W	Carrier, Bearing	1	1	39	*b 2304708W	Plate, Filter Cover	1	1
12	95033W	Shim .005	2	2	40	*b 2304709W	Gasket, Filter Cover	1	1
13	95166W	Shim .007	3	3	41	224779W	Plate, Valve Cover	1	1
14	95034W	Shim .020	4	4	42	224780W	Gasket,	1	1
15	15895W	O-Ring	1	1	43	179443W	Capscrew	6	6
16	224023W	Retainer, Bearing	1	1	44	15156W	Washer	6	6
17	15307W	Fitting	2	2	45	203233W	Cover, Top	1	--
18	225264W	Capscrew	2	2	45	201858W	Cover, Top	--	1
20	55289W	O-Ring	1	1	46	95958W	Gasket	1	1
21	225255W	Shim .005	2	2	47	178403W	Capscrew	8	10
22	225256W	Shim .007	3	3	48	15319W	Fitting	1	1
23	225257W	Shim .020	2	2	49	151589W	Plate	1	1
24	2302625W	Housing, FS Adjust	1	--	50	151646W	Gasket	1	1
24	280262W	Retainer, Bearing	--	1	51	21420W	Plug, Breather	1	1
25	2302626W	Capscrew	6	--	52	2300962W	Cap, Breather	1	1
25	178402W	Capscrew	--	6	53	18586W	Capscrew	2	--
26	15158W	Washer	6	6					
27	149541W	Shim .005	--	2					
28	149542W	Shim .007	--	2					
					*a	Use 280472W Adhesive/Sealant			
					*b	First Used on S/N AW6FP-4453			

**Mounting Parts**

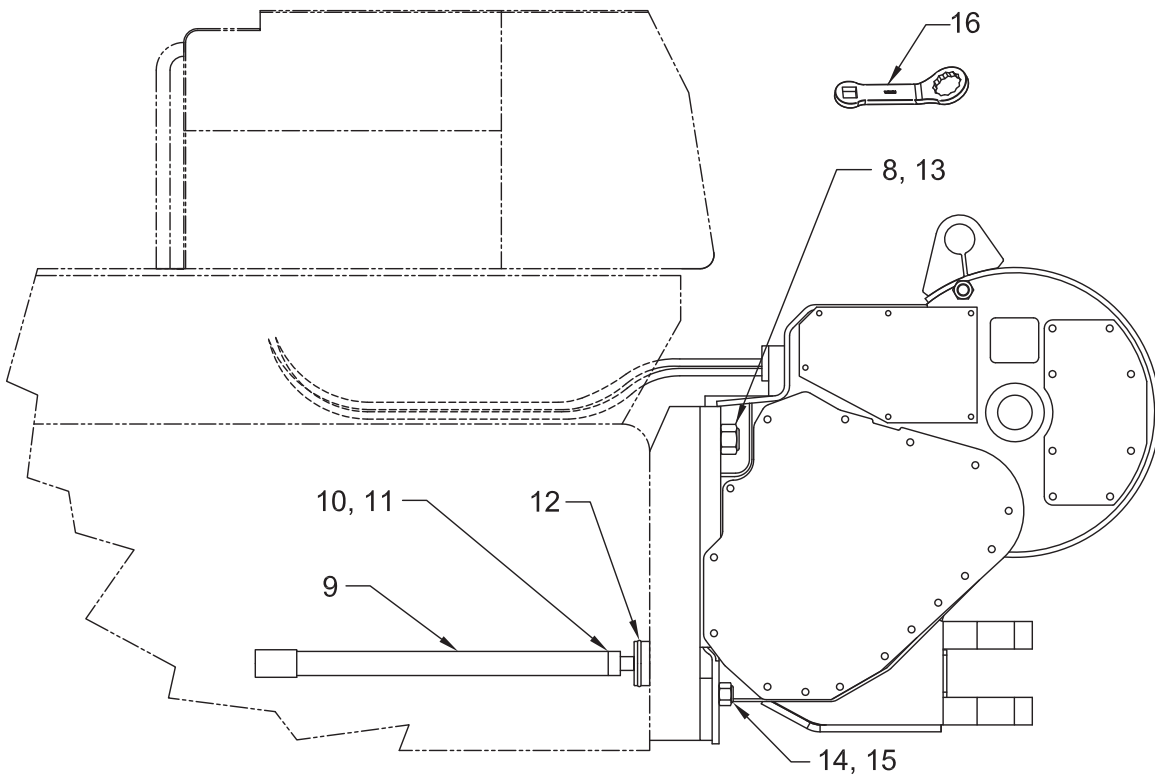
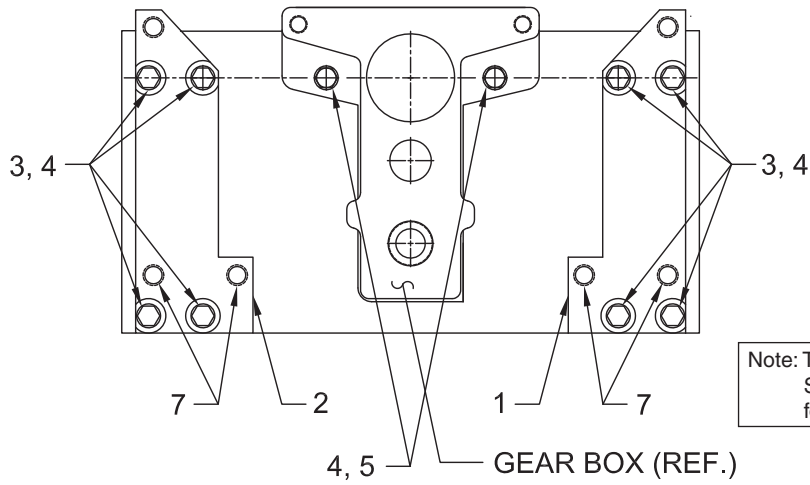
Case 1550 (R41)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	1310768W	Plate, Mounting	1	11	*a 15111W	Nut	2
2	1310771W	Plate, Mounting	1	12	*a 15110W	Nut	4
3	*a 321407W	Stud	2	13	*a 221780W	Washer	4
4	*a 321406W	Stud	2	14	*a 1310779W	Block	2
5	*a 254931W	Stud	4	15	*a 15061W	Nut	2
6	*a 166396W	Capscrew	2	16	*a 15240W	Pin, Cotter	2
7	*a 15128W	Washer	4	17	*a 55434W	O-Ring	2
8	*a 225065W	Capscrew	10				
9	*a 296434W	Washer	10		*a Use 230064W Loctite Kit		

### Mounting Parts

Case 1850K (R49)



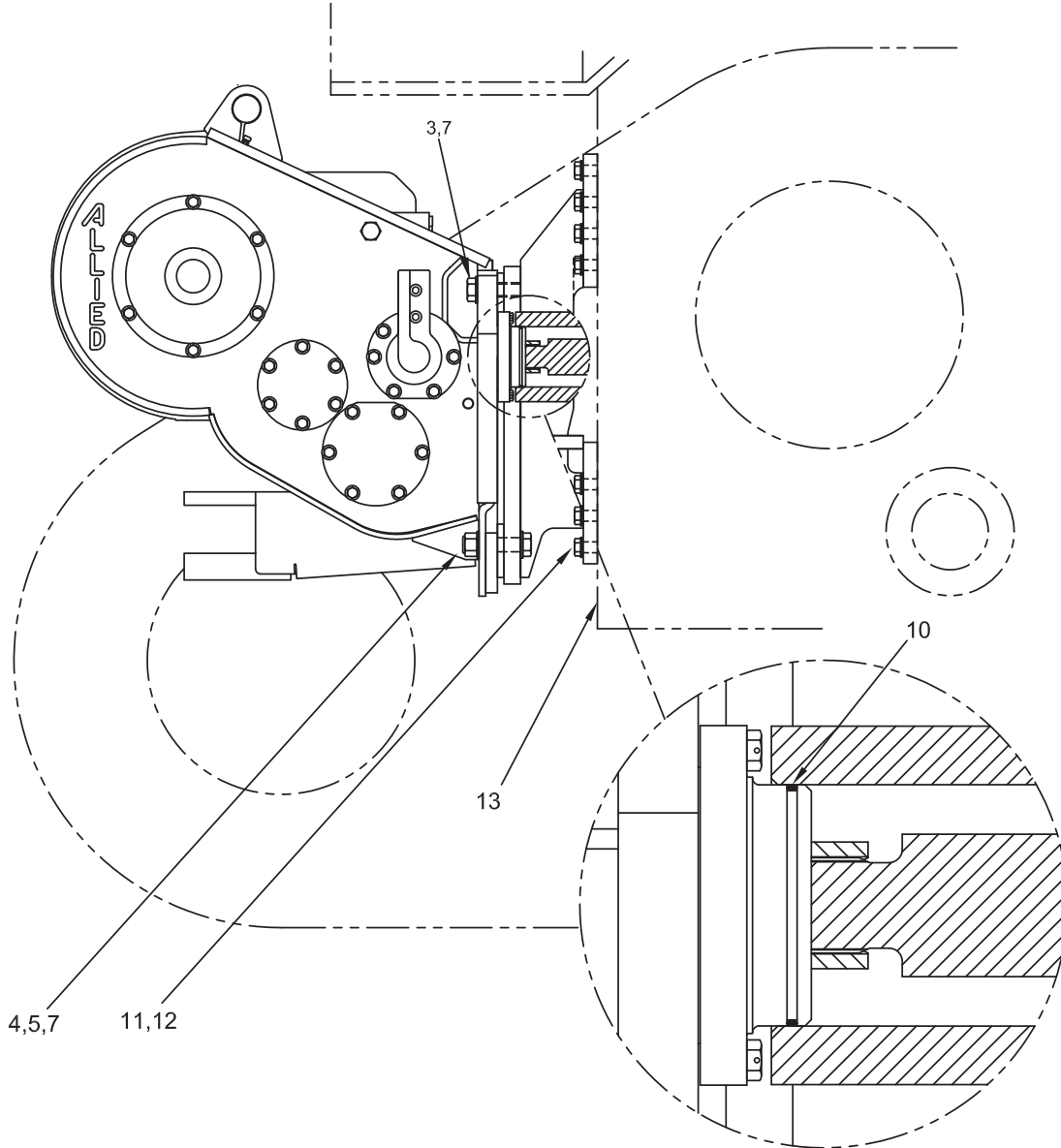
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	338652W	Spacer, RH Side	1	11	250484W	Ring, Snap	1
2	338653W	Spacer, LH Side	1	12	15880W	O-Ring	1
3	226430W	Capscrew	8	13	15128W	Washer	2
4	296434W	Washer	10	14	15110W	Nut	4
5	226429W	Capscrew	2	15	221780W	Washer	4
7	*a 254931W	Stud	4	16	2310958	Wrench	1
8	*a 383917W	Capscrew	2				
9	2304759W	Shaft, PTO Drive	1				
10	19928W	Pin	1				
				*a	Use 230064W Loctite Kit		

**Mounting Parts**

Caterpillar 527 (C40)

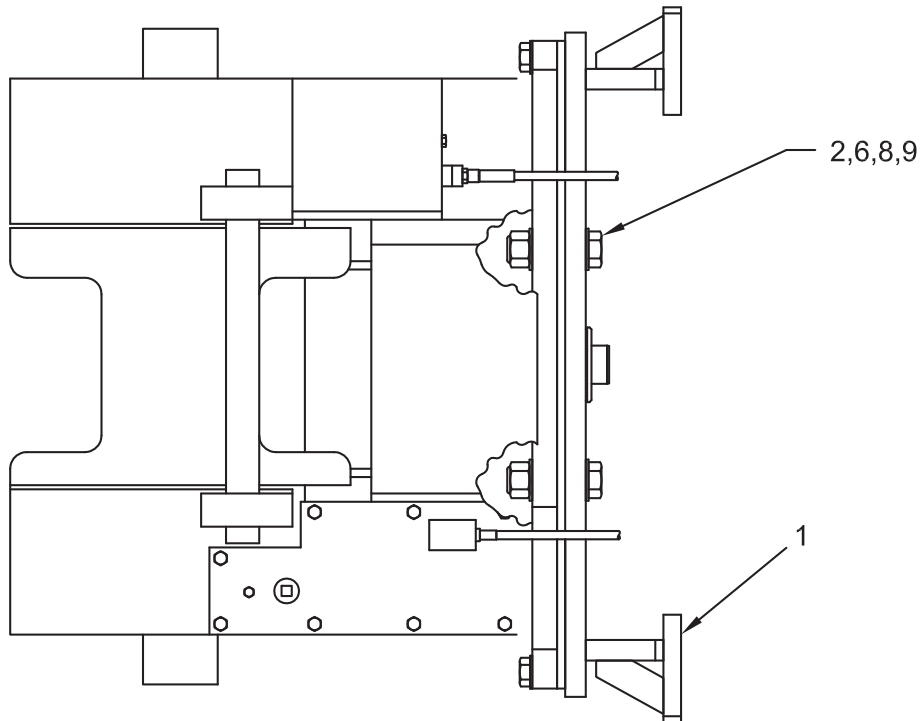
Last Used on S/N AW6F-4578

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**Mounting Parts**

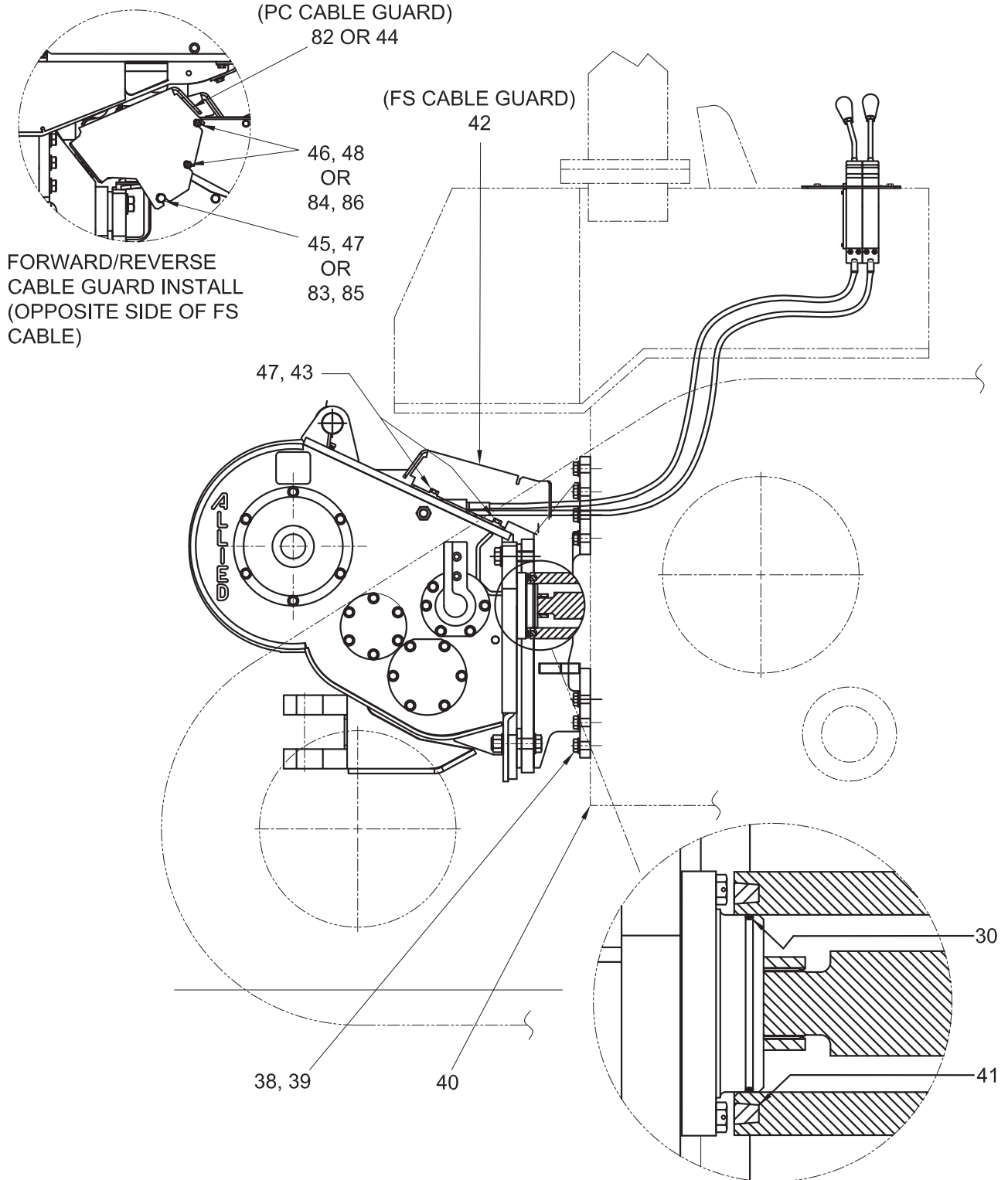
Caterpillar 527 (C40)  
 Last Used on S/N AW6F-4578  
 Page 2 of 2



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 2302213W	Bracket, Mounting	1	10	15887W	O-Ring	1
2	15128W	Washer	4	11	*b 221657W	Capscrew	18
3	221694W	Capscrew	2	12	221777W	Washer	18
4	221701W	Capscrew	4	13	18004W	Plug, Cork	6
5	221720W	Nut	4				
6	221724W	Nut	2		*a	Use 358674W Sealant Between Winch and Bracket	
7	221780W	Washer	10		*b	Use 230064W Loctite Kit	
8	1310819W	Capscrew	2				
9	55434W	O-Ring	2				

### Mounting Parts

Caterpillar 527 (C40)  
First Used on S/N AW6F-4579  
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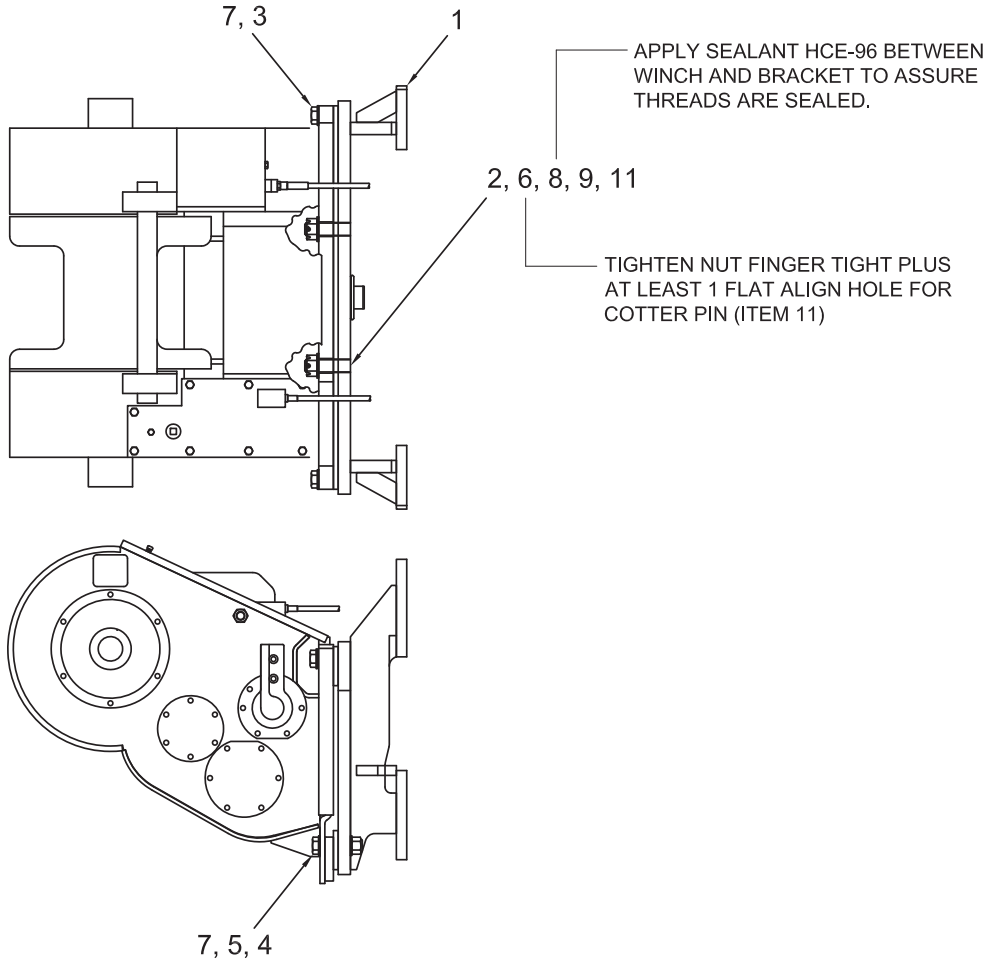


**Mounting Parts**

Caterpillar 527 (C40)

First Used on S/N AW6F-4579

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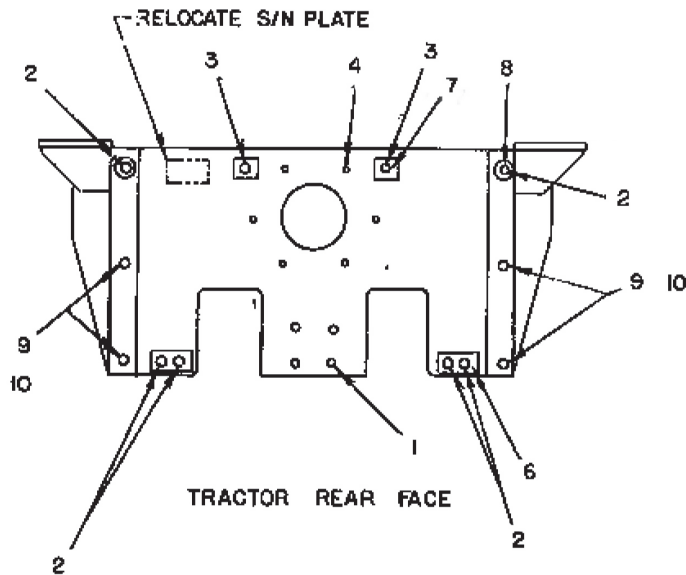
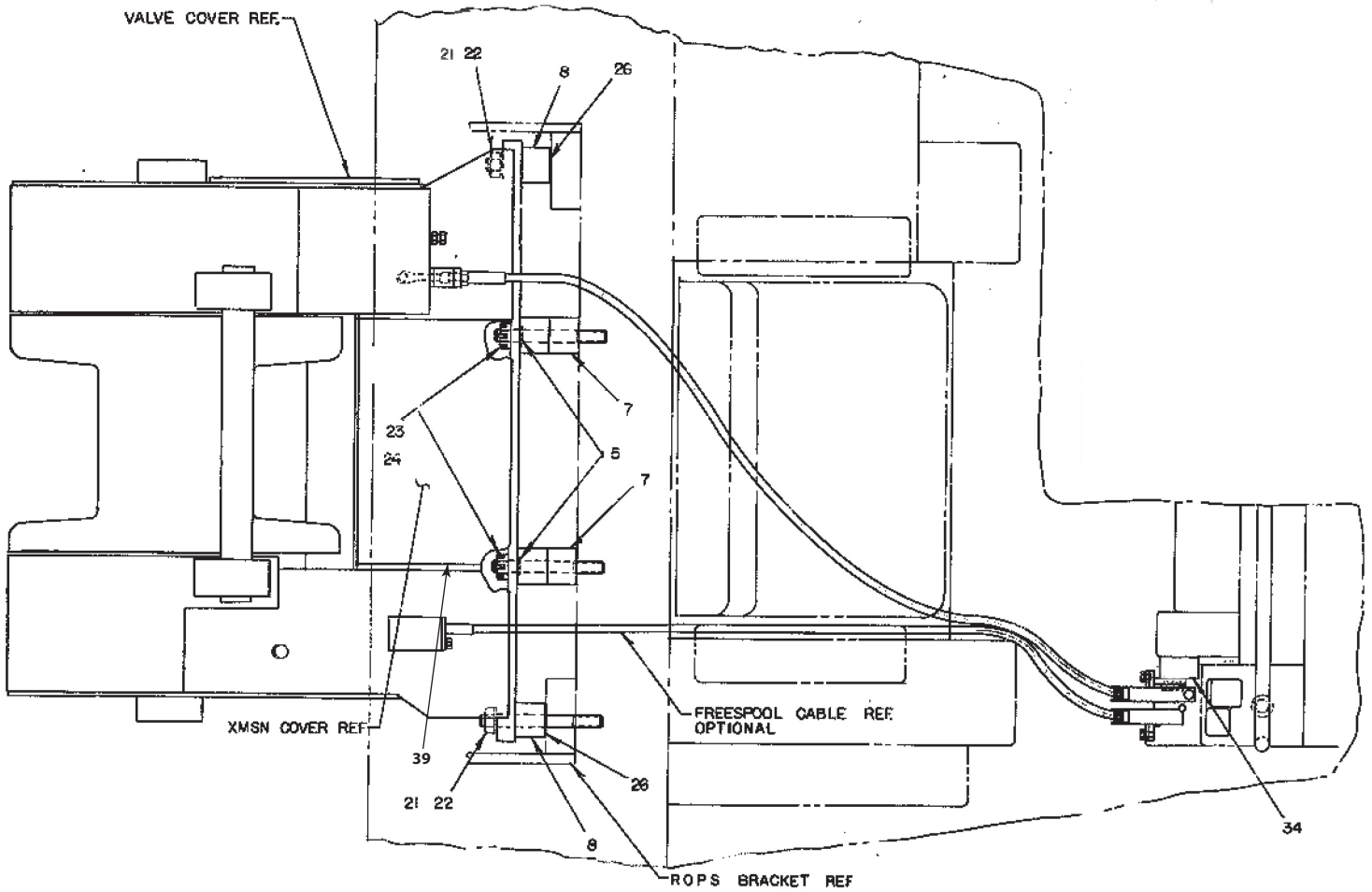


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2307559W	Bracket, Mounting	1	42	2314740	Guard, FS Cable	1
2	15128W	Washer	2	43	178402W	Capscrew	2
3	R13806324	Capscrew	2	44	2314741	Guard, PFR Cable	1
4	221701W	Capscrew	4	45	182209W	Capscrew	1
5	221720W	Nut	4	46	252928W	Capscrew	2
6	15061W	Nut	2	47	221771W	Washer	3
7	221780W	Washer	10	48	221767W	Washer	2
8	2307558W	Stud	2	82	2314741	Guard, PFR Cable	1
9	55434W	O-Ring	2	83	182209W	Capscrew	1
11	15240W	Pin	2	84	252928W	Capscrew	2
30	15887W	O-Ring	1	85	221771W	Washer	1
38	*a 221657W	Capscrew	18	86	221767W	Washer	2
39	221777W	Washer	18				
40	18004W	Plug, Cork	10				
41	2307554W	Plug, Cork	6				
				*a	Use 230064W Loctite Kit		

# Mounting Parts

Caterpillar 977L (C46)

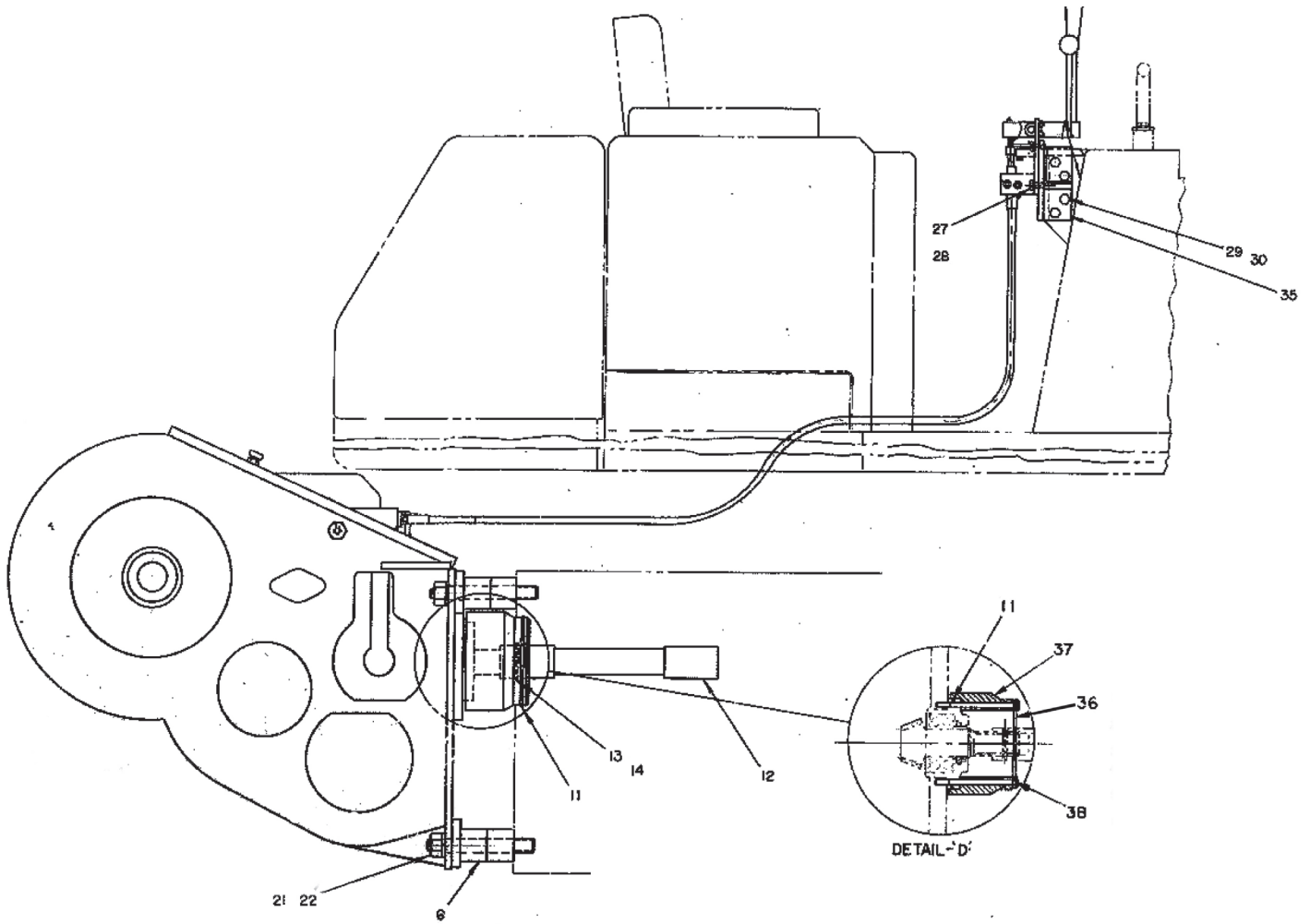
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# Mounting Parts

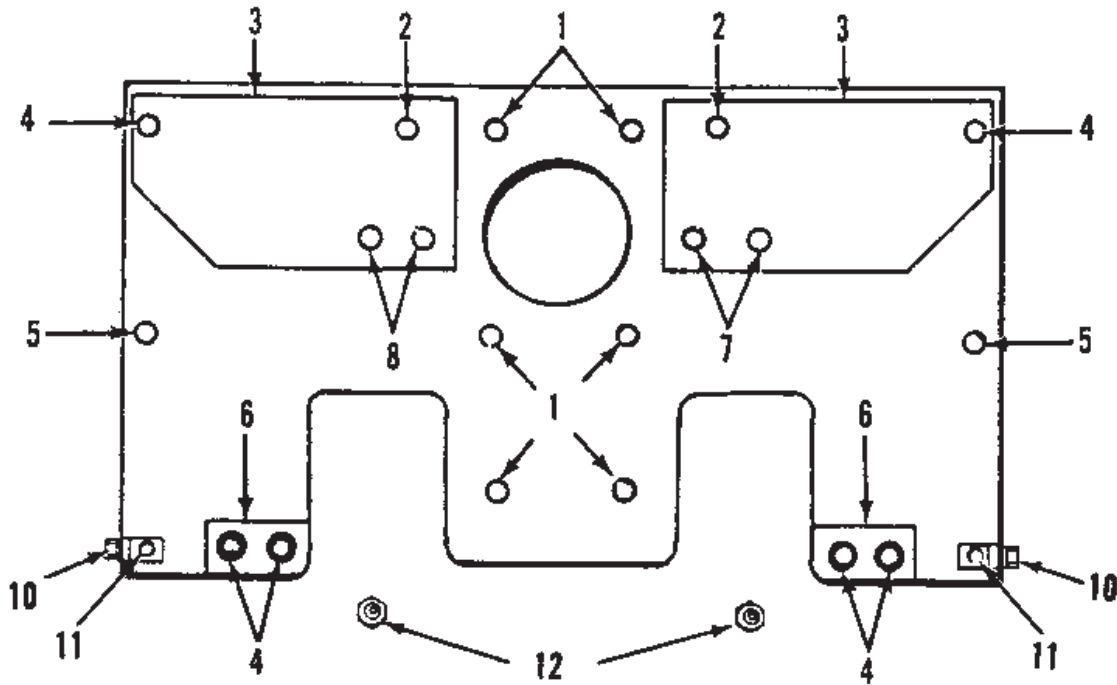
Caterpillar 977L (C46)

Page 2 of 2



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	18005W	Plug	4	22	15155W	Washer	6
2	314829W	Stud	6	23	134821W	Nut	2
3	274450W	Stud	2	24	15259W	Pin, Cotter	2
4	18004W	Plug	6	26	246380W	Shim .005	14
5	55434W	O-Ring	2	27	16597W	Capscrew	4
6	246378W	Spacer	4	28	15166W	Lockwasher	4
7	246379W	Spacer	4	29	16830W	Capscrew	4
8	305219W	Spacer	2	30	15158W	Washer	4
9	274456W	Stud	4	34	300634W	Block, Control Lever	1
10	221786W	Lockwasher	4	35	300638W	Bracket, Control Lever	1
11	90937W	O-Ring	2	36	67355W	Lockwire	1.5 Ft
12	285685W	Shaft, PTO Drive	1	37	274453W	Spacer	1
13	19929W	Pin	1	38	274452W	Sealing, Capscrew	2
14	9528W	Ring, Lock	1	39	2314004	Gasket	2
21	15066W	Nut	6				

**Mounting Parts**  
Caterpillar D5B (C41, C42)

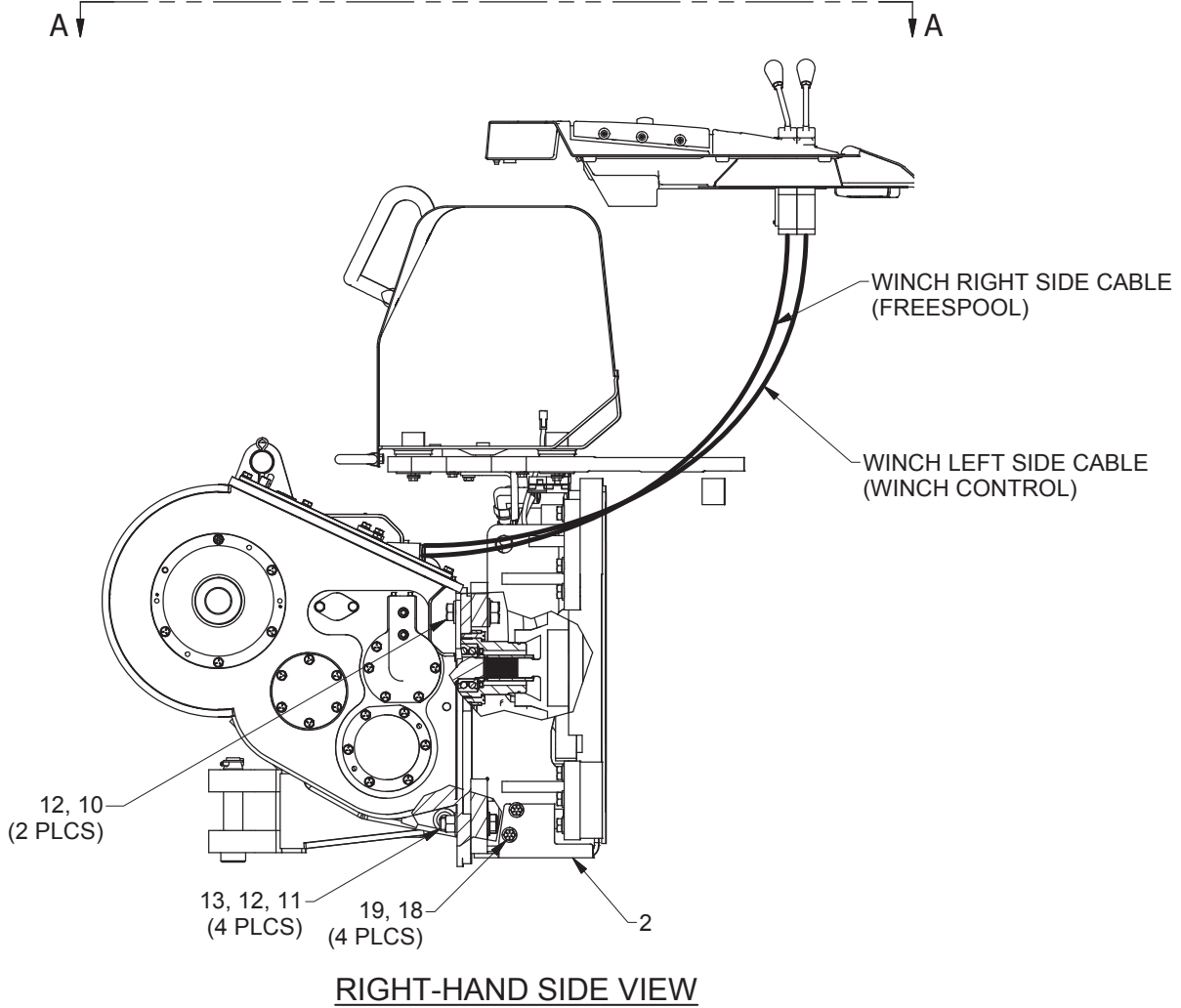
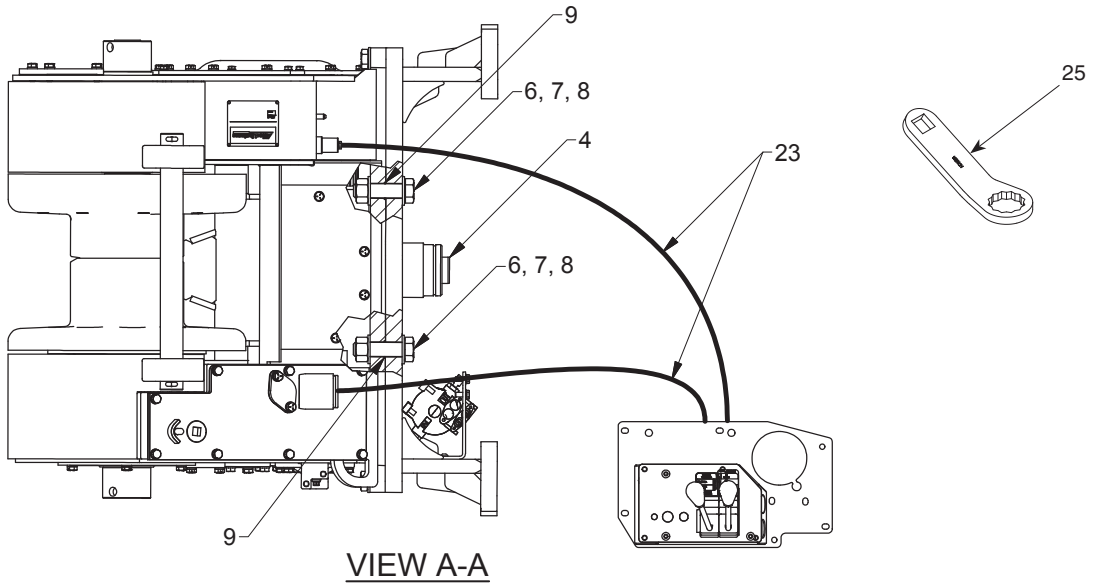


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a, *b 18004W	Plug	6	5	18005W	Plug	2
2	*a 89035W	Stud	2	6	*b 271727W	Shim .0598	AR
2	*b 211234W	Stud	2	7	*b -----	Capscrew	2
2	55434W	O-Ring	2	8	*b 18003W	Plug	2
2	134821W	Nut	2	10	16820W	Capscrew	4
2	*a 15259W	Pin, Cotter	2	10	15158W	Lockwasher	4
2	*b 15250W	Pin, Cotter	2	11	96798W	Lug	2
3	*b 271726W	Cover	2	12	13987W	Fitting	2
4	*a 162412W	Stud	6				
4	*b 313898W	Stud	6				
4	15166W	Lockwasher	6				
4	15066W	Nut	6				
					*a	Direct Drive	
					*b	Power Control	

### Mounting Parts

Caterpillar D6N (C81)

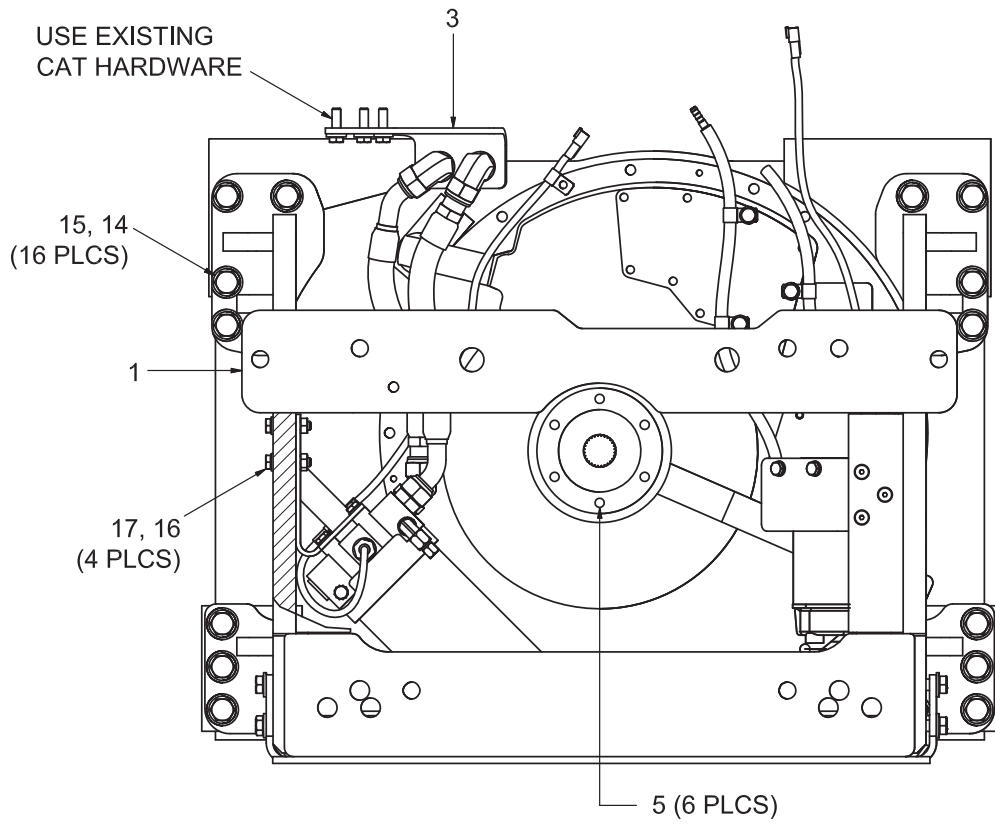
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**Mounting Parts**

Caterpillar D6N (C81)

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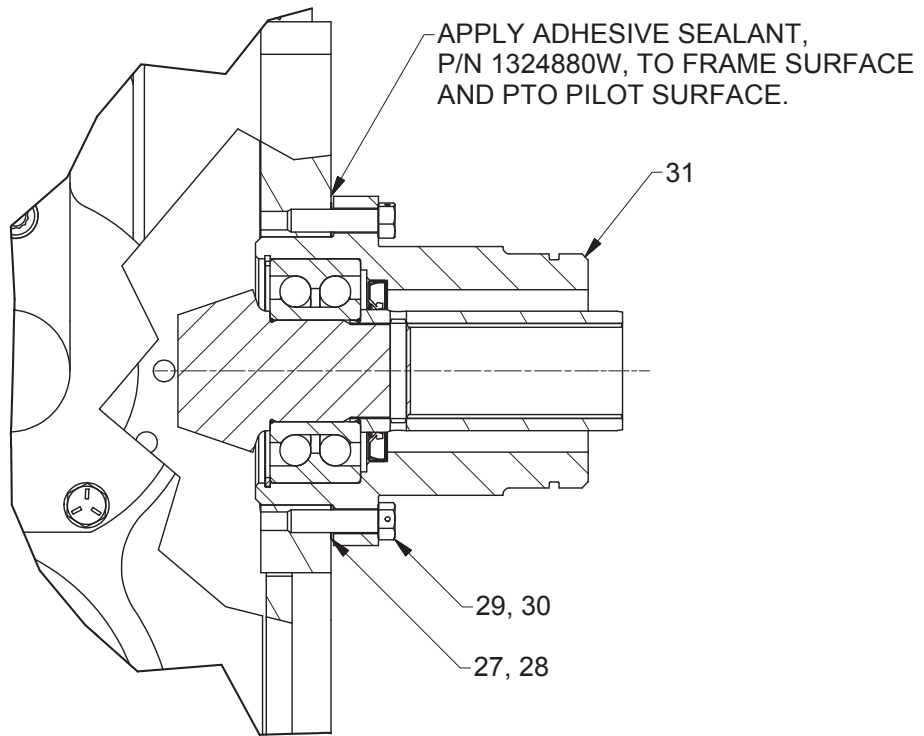


TRACTOR REAR FACE VIEW

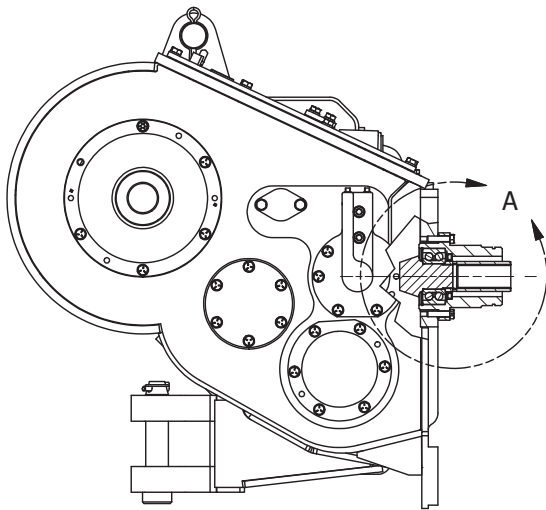
### Mounting Parts

Caterpillar D6N (C81)

Page 3 of 3



DETAIL A

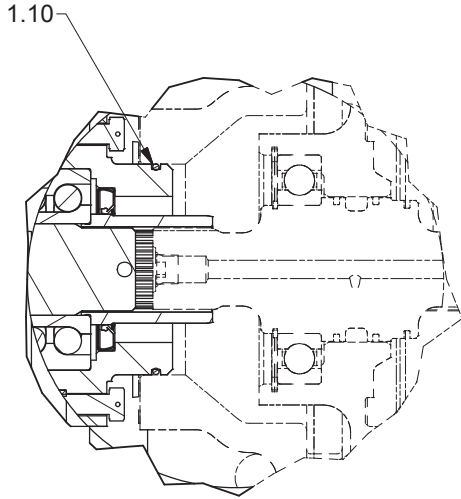


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2305516W	Bracket, Mounting	1	16	Y09C-M1255	Capscrew	4
2	2305541W	Guard, Bottom	1	17	296422W	Washer	4
3	2305588W	Bracket, Fitting	1	18	*a Y17C-1024	Capscrew	4
4	15887W	O-Ring	1	19	221775W	Washer	4
5	56995W	Plug	6	23	137852W	Clamp, Strap	A/R
6	*a 1310819W	Capscrew	2	25	2310958	Wrench, Extension Torque	1
7	2221724W	Nut	2	27	134078W	Shim .005	3
8	225851	Washer	4	28	134079W	Shim .007	10
9	55434W	O-Ring	2	29	169671W	Capscrew	6
10	*a R13801898	Capscrew	2	30	67355W	Lockwire	1
11	*a 219897	Capscrew	4	31	2315562	Assembly, PTO	1
12	221780W	Washer	10				
13	221721W	Nut	4				
14	*a 293710W	Capscrew	16		*a Use 318702W Thread Lock		
15	221777W	Washer	16				

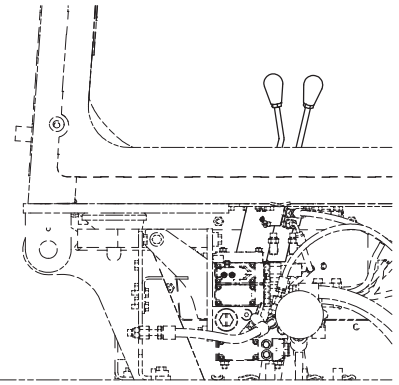
### Mounting Parts

Caterpillar D5R2 (C470)

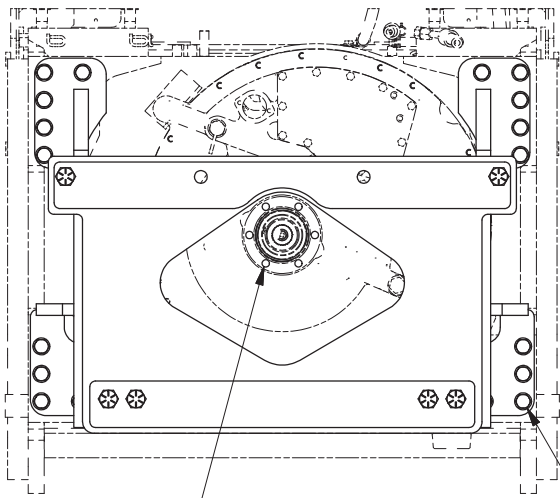
Page 1 of 2



**DETAIL B  
PTO DETAIL**

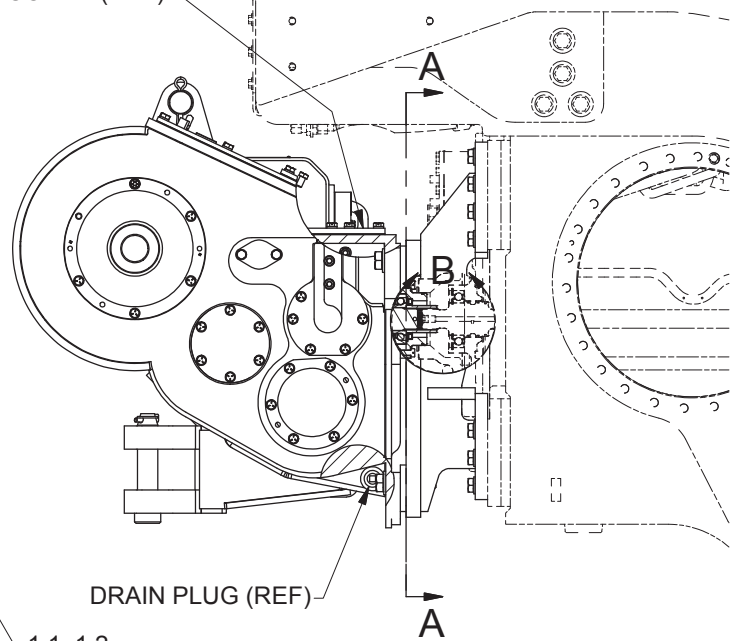


TOP COVER (REF)



1.11 (6 PLCS)

**SECTION A-A  
MOUNTING BRACKET INSTALLATION**



DRAIN PLUG (REF)

1.1, 1.2  
(18 PLCS)

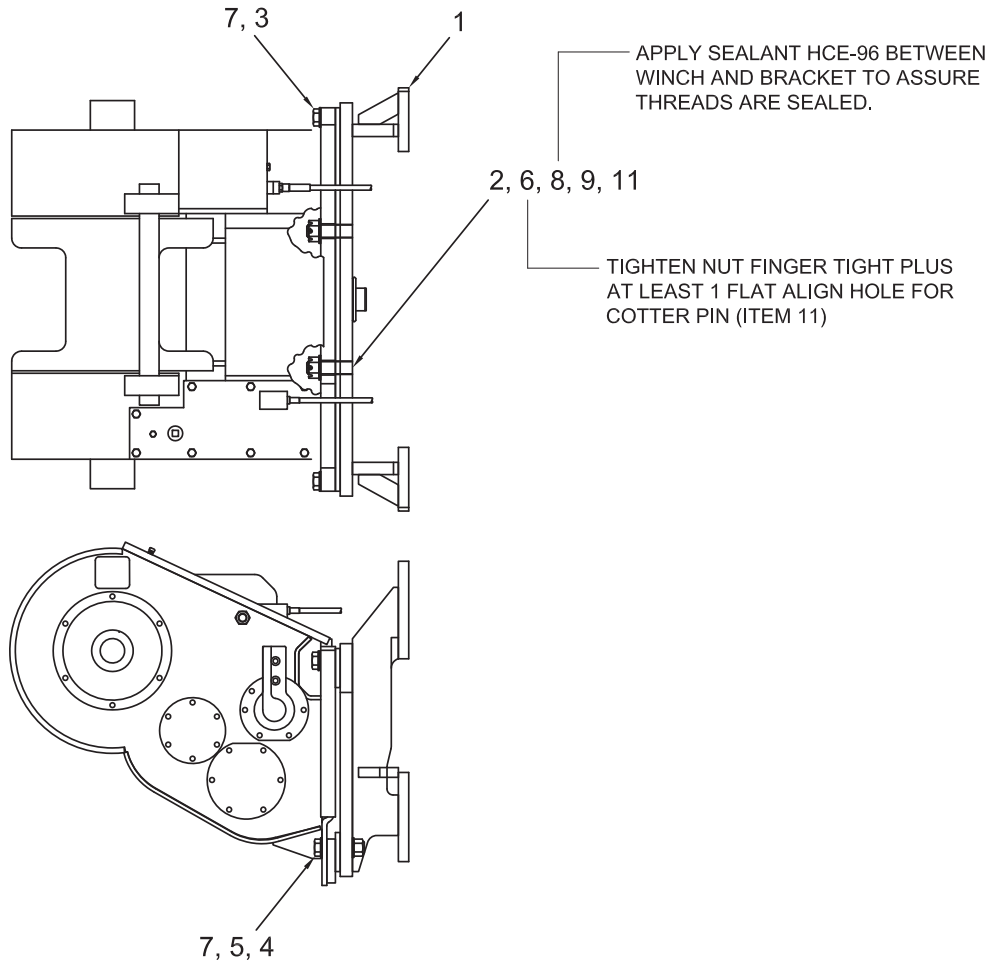
**RIGHT-HAND SIDE VIEW**



### Mounting Parts

Caterpillar D5R2 (C470)

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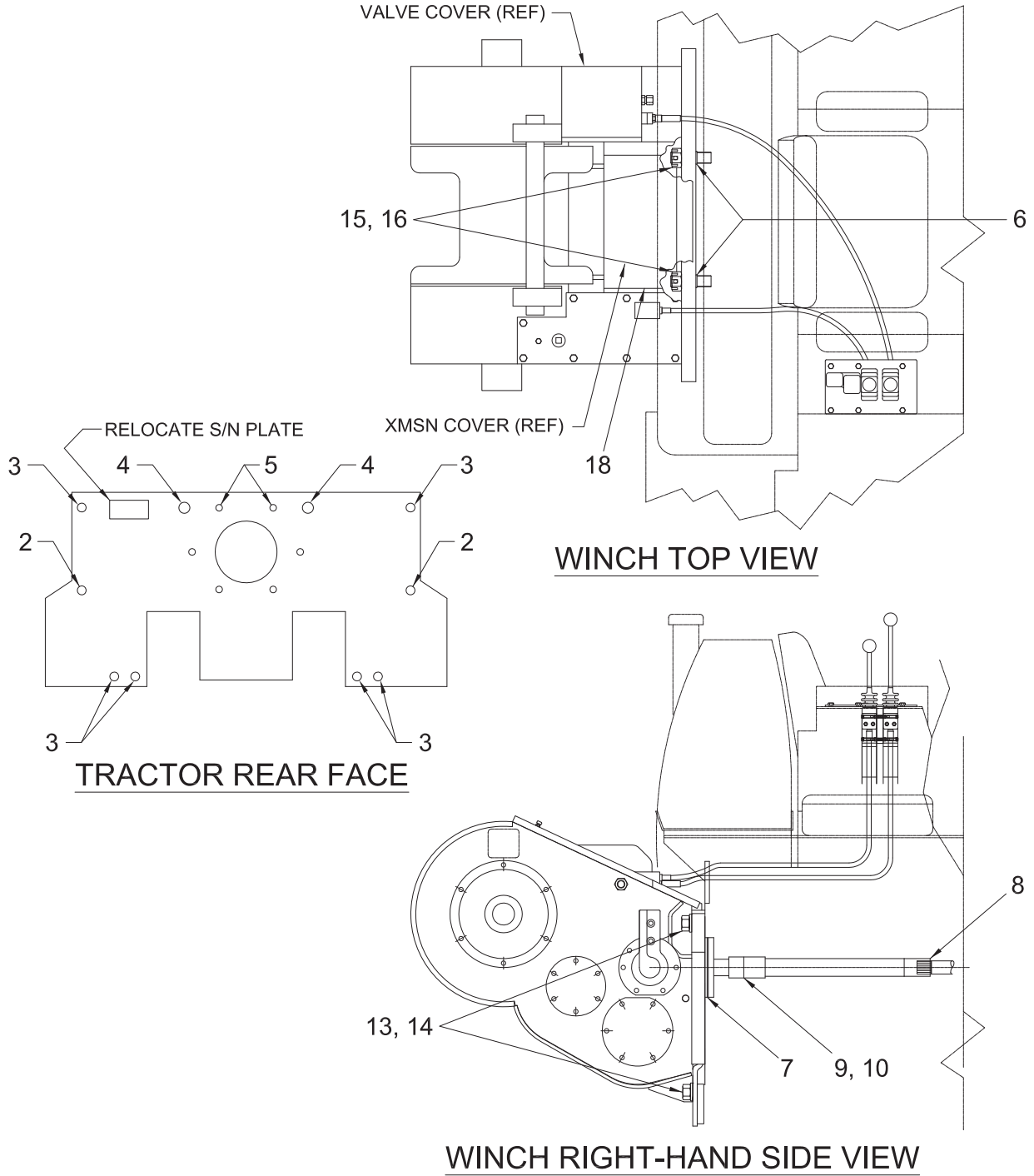
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2307559W	Bracket, Mounting	1	5	221720W	Nut	4
1.1	*a 293708W	Capscrew	18	6	15061W	Nut	2
1.2	296430W	Washer	18	7	221780W	Washer	10
1.10	15887W	O-Ring	1	8	2307558W	Stud	2
1.11	2307554W	Plug	6	9	55434W	O-Ring	2
2	15128W	Washer	2	11	15240W	Pin	2
3	R13806324	Capscrew	2				
4	221701W	Capscrew	4				
				*a	Use 318702W Thread Lock		

### Mounting Parts

Caterpillar D6D PS (C43)

S/N 3X, 4X, 5X

Page 1 of 2



**Mounting Parts**  
 Caterpillar D6D PS (C43)  
 S/N 3X, 4X, 5X  
 Page 2 of 2

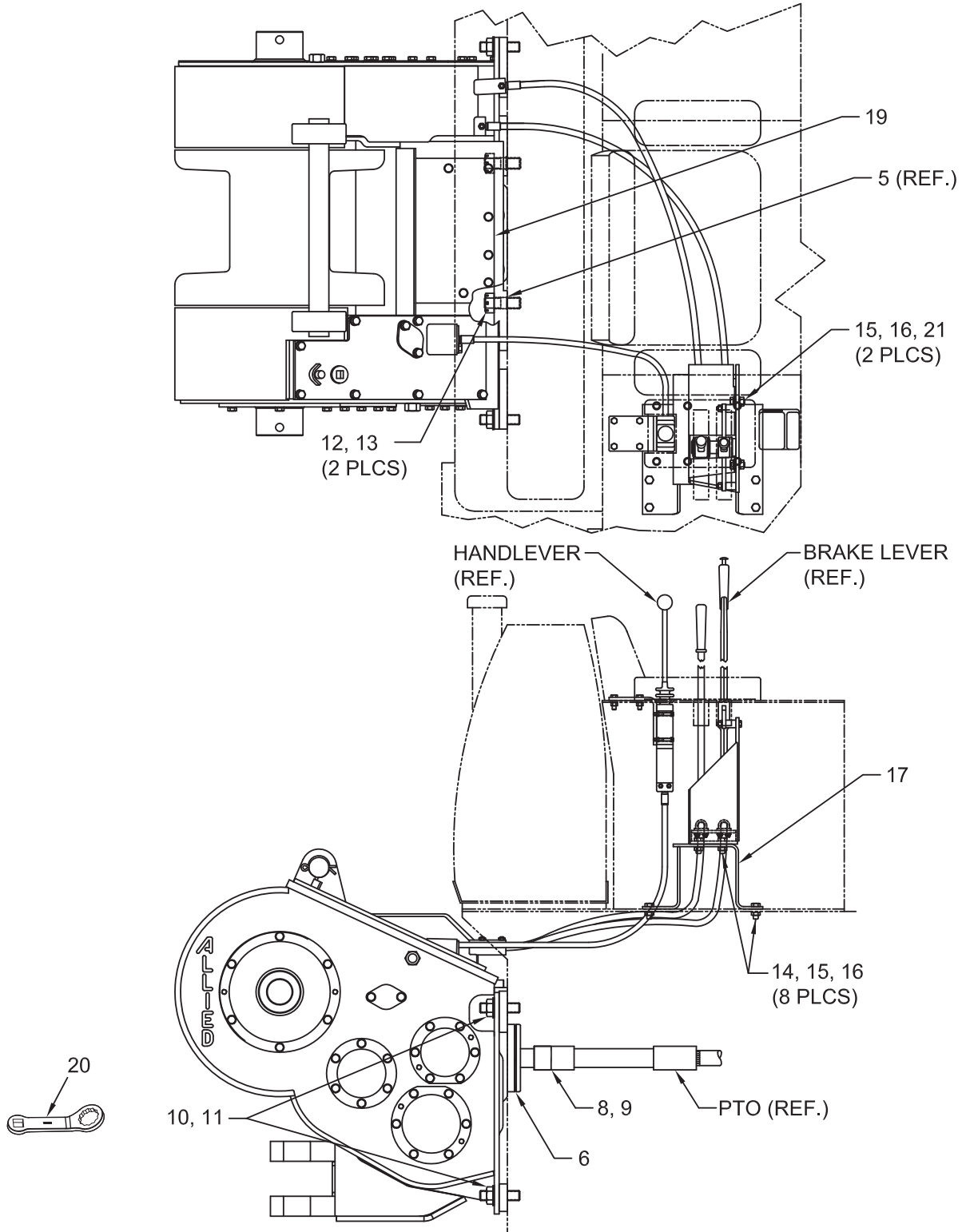
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
2	18005W	Plug	2	10	9528W	Lock, Ring	1
3	*a 313898W	Stud	6	13	127156W	Nut	6
4	*a 2301853W	Stud	2	14	221780W	Washer	6
5	18004W	Plug	6	15	134821W	Nut	2
6	55434W	O-Ring	2	16	15240W	Pin, Cotter	2
7	90937W	O-Ring	1	18	2314004	Gasket	2
8	285684W	Shaft, PTO Drive	1				
9	19929W	Pin	1		*a Use 230064W Loctite Kit		

### Mounting Parts

Caterpillar D6D/E (C44)

Direct Drive (W6FX)

Page 1 of 2

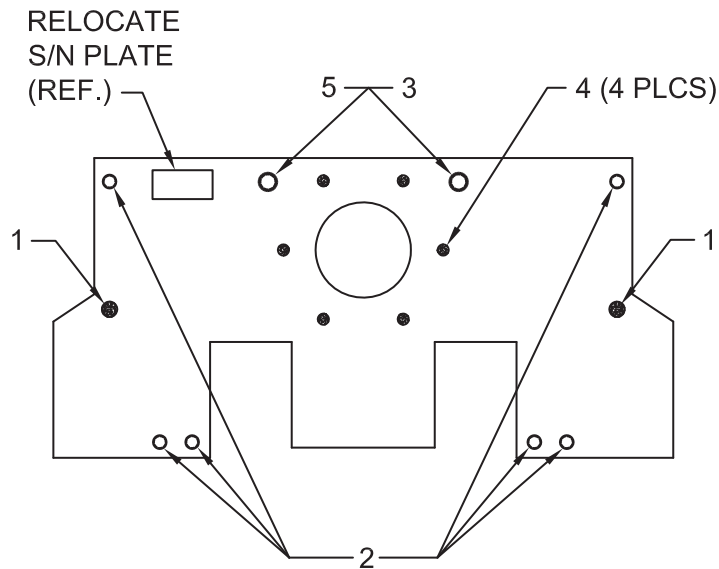


### Mounting Parts

Caterpillar D6D/E (C44)

Direct Drive (W6FX)

Page 2 of 2



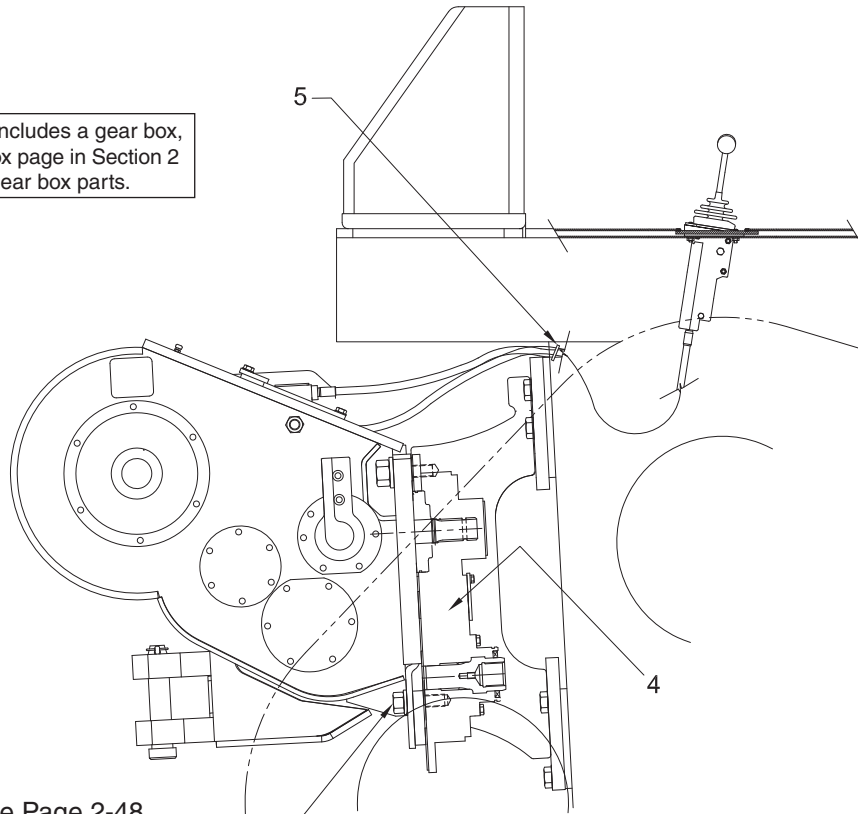
TRACTOR REAR FACE

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	18005W	Plug	2	13	15240W	Pin, Cotter	2
2	*a 162412W	Stud	6	14	16830W	Capscrew	8
3	*a 253817W	Stud	2	15	15158W	Lockwasher	10
4	18004W	Plug	6	16	15058W	Nut	10
5	55434W	O-Ring	2	17	339489W	Bracket, Control Lever	1
6	90937W	O-Ring	1	19	2314004	Gasket	2
8	19929W	Pin	1	20	2310958	Wrench	1
9	9528W	Ring, Lock	1	21	398817W	Flangescrew	2
10	221780W	Washer	6				
11	127156W	Nut	6		*a	Use 230064W Loctite Kit	
12	134821W	Nut	2				

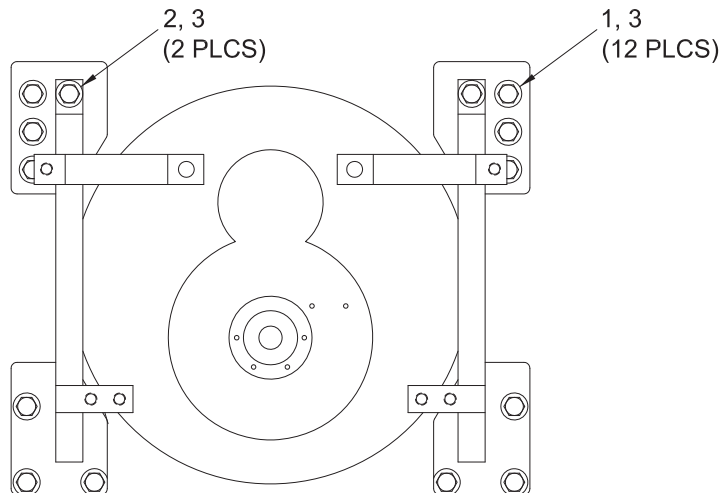
### Mounting Parts

Caterpillar D6H PS (C480), D6HDD (C481)  
D6R PS (C50), D6R II/III PS and D6T (C71)

Note: This winch includes a gear box.  
See gear box page in Section 2  
for related gear box parts.



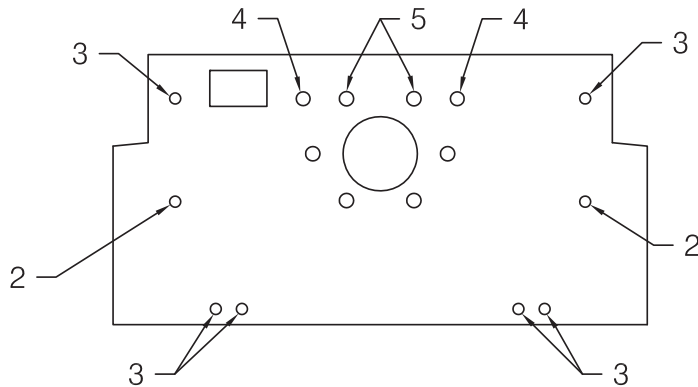
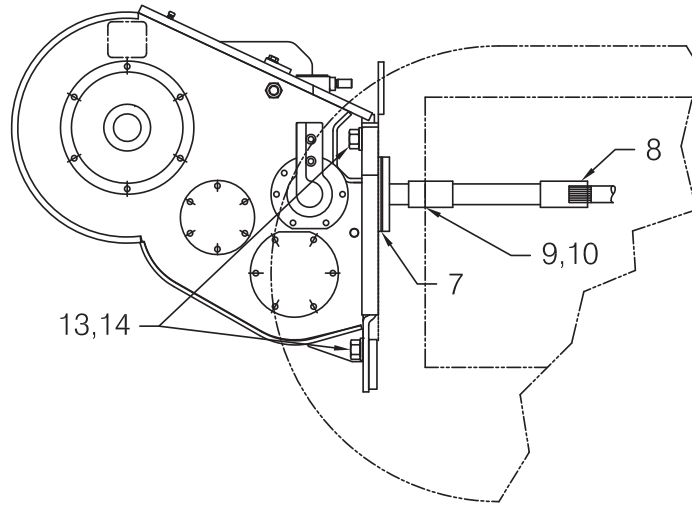
See Page 2-48  
for hardware information



WINCH NOT SHOWN

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	Y17C-1636	Capscrew	12	4	15887W	O-Ring	1
2	Y17C-1664	Capscrew	2	5	129563W	Clamp, Strap	2
3	221780W	Washer	14				

**Mounting Parts**  
Caterpillar D6G (C73)



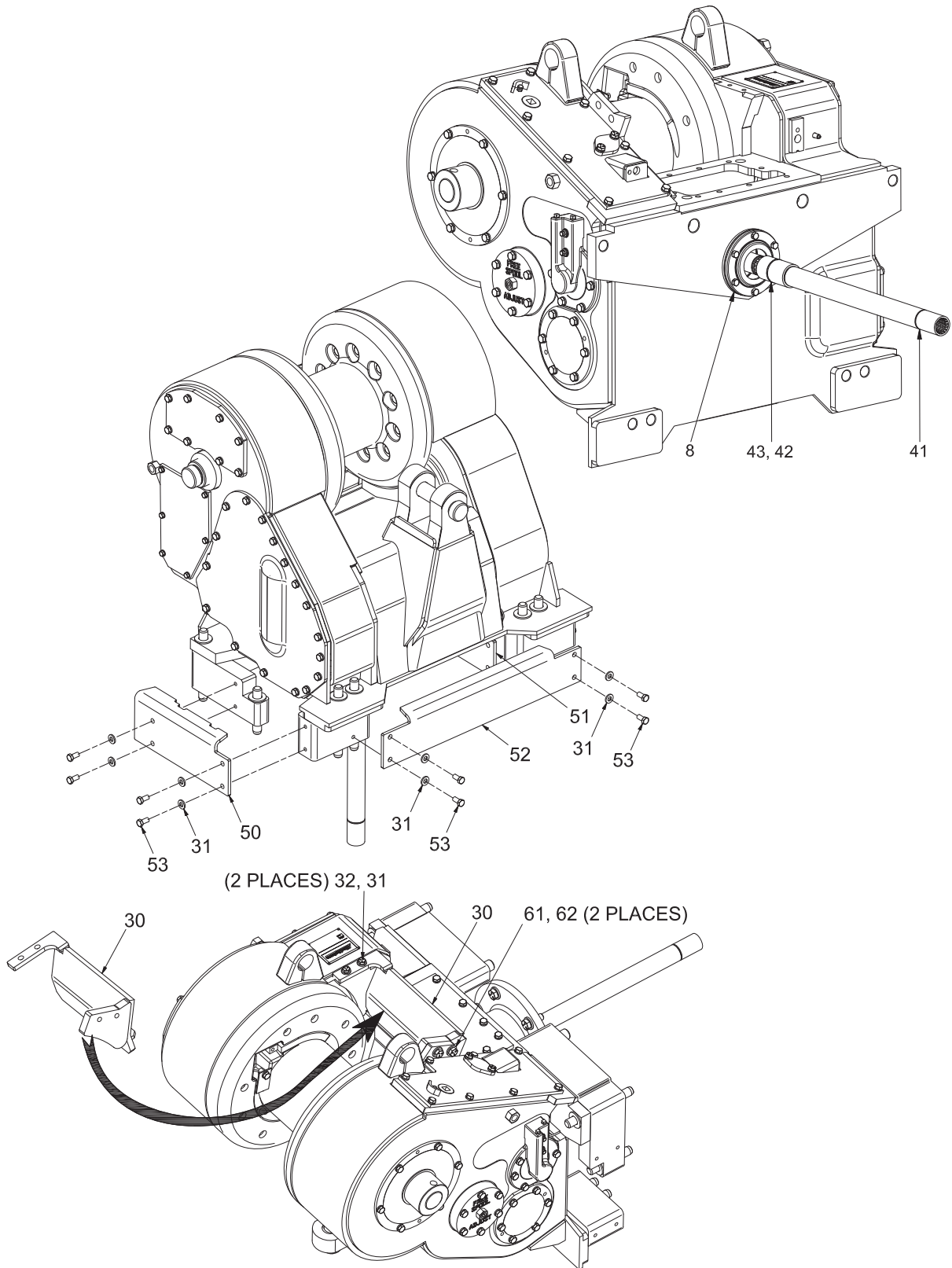
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
2	18005W	Plug	2	9	19929W	Pin	1
3	*a 313898W	Stud	6	10	9528W	Ring, Lock	1
4	*a 2301853W	Stud	2	13	127156W	Nut	6
5	18004W	Plug	6	14	221780W	Washer	6
6	55434W	O-Ring	2				
7	90937W	O-Ring	1				
8	285684W	Shaft, PTO Drive	1				
				*a	Use 230064W Loctite Kit		

### Mounting Parts

Caterpillar D6G2 (C82)

Last Used on S/N AW6F-1655

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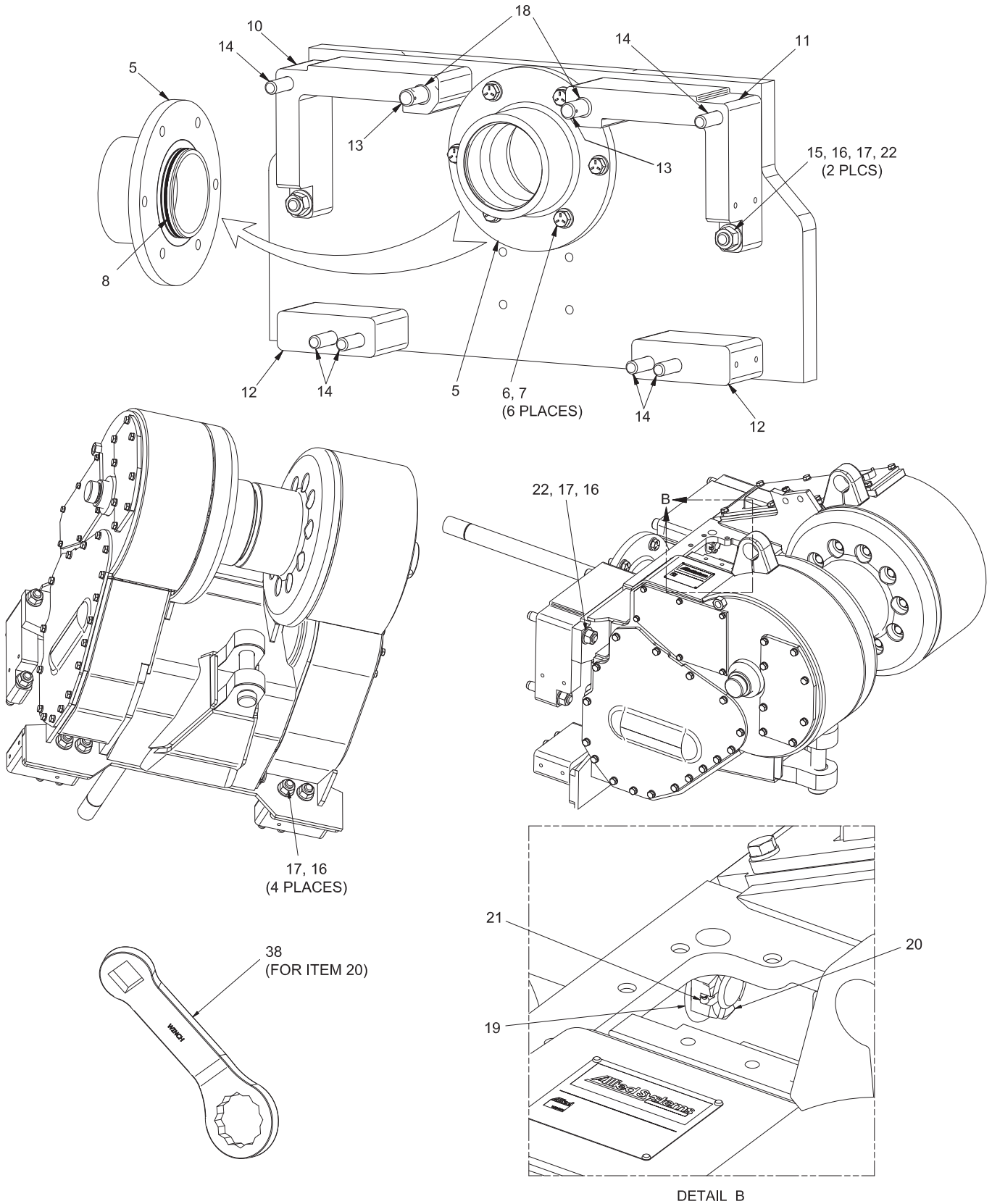


### Mounting Parts

Caterpillar D6G2 (C82)

Last Used on S/N AW6F-1655

Page 2 of 4

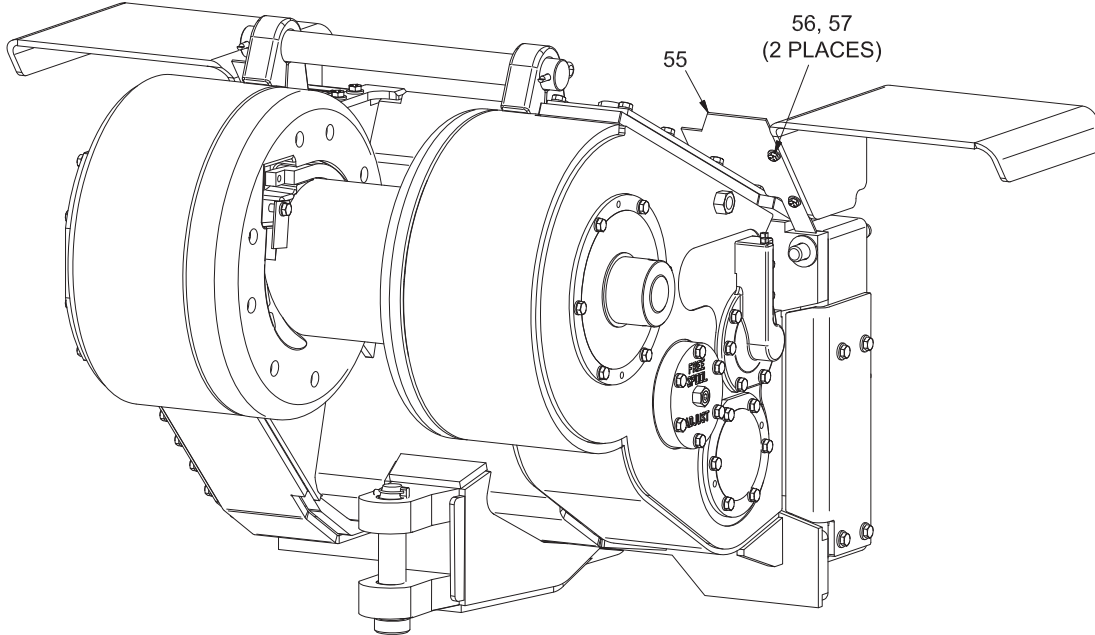
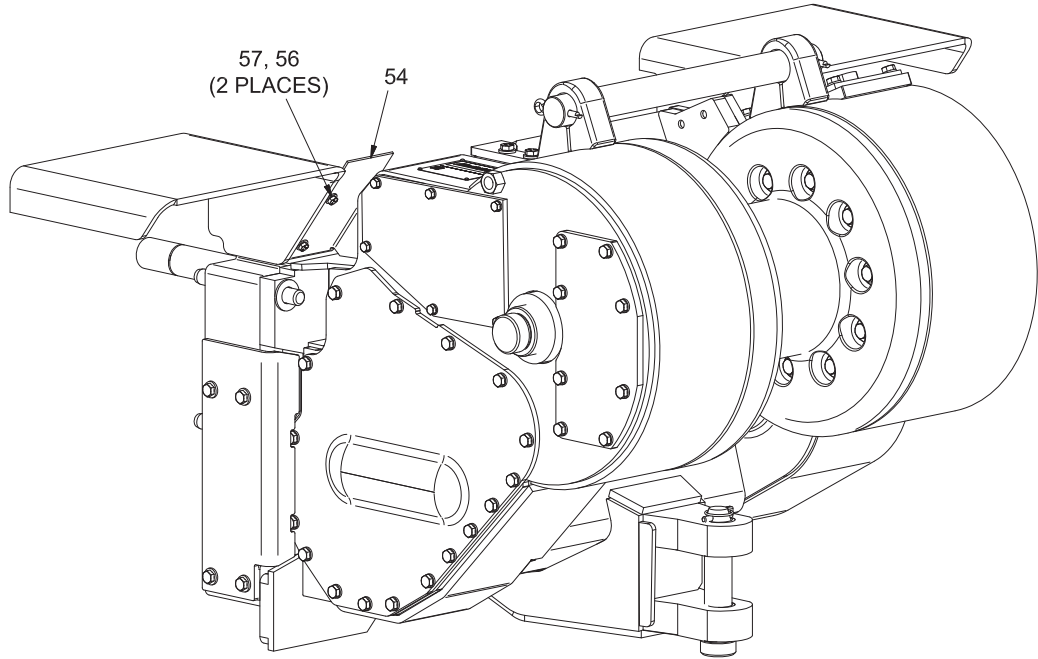


**Mounting Parts**

Caterpillar D6G2 (C82)

Last Used on S/N AW6F-1655

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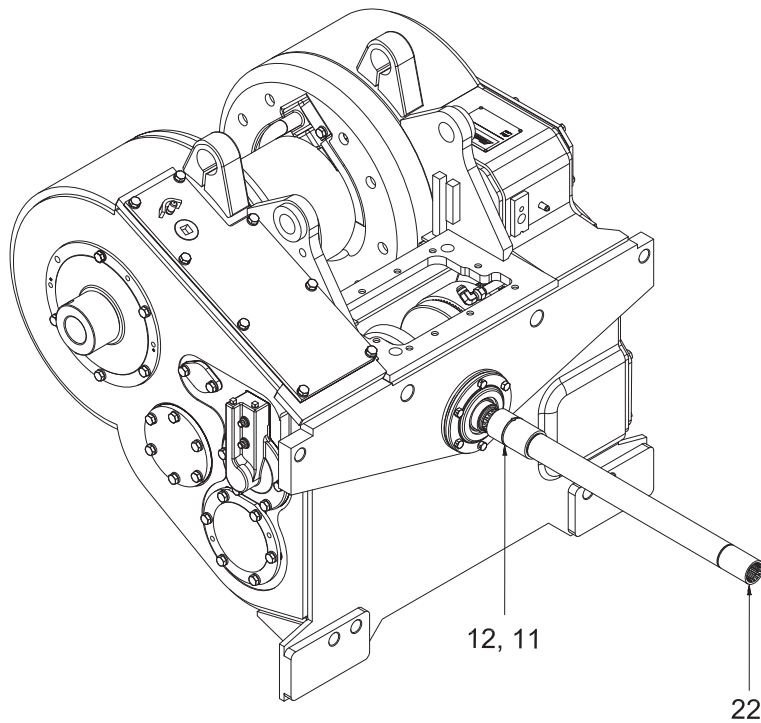
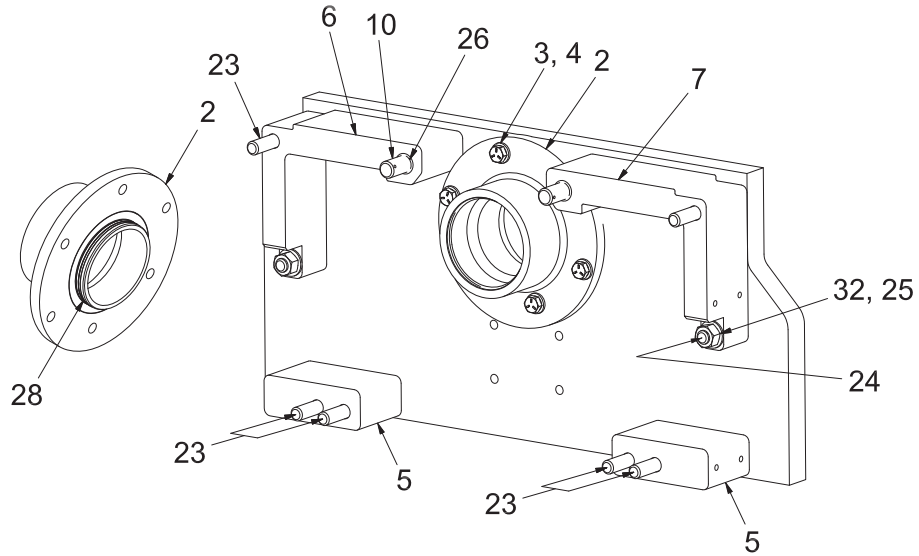
**Mounting Parts**

Caterpillar D6G2 (C82)  
 Last Used on S/N AW6F-1655  
 Page 4 of 4

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
5	2311105	Pilot, PTO	1	32	16085W	Capscrew	2
6	Y27E-12	Washer	6	38	2310958	Wrench	1
7	18622W	Capscrew	6	39	224799W	Gasket	1
8	90937W	O-Ring	2	41	2311087	Shaft, PTO Drive	1
10	2311100	Spacer, Left	1	42	19929W	Pin	1
11	2311101	Spacer, Right	1	43	9528W	Ring	1
12	2311102	Spacer, Lower	2	50	2311138	Guard, Left	1
13	2311110	Stud	2	51	2311139	Guard, Right	1
14	2311114	Stud	6	52	2311140	Guard, Bottom	1
15	2311115	Stud	2	53	16829W	Capscrew	12
16	221780W	Washer	8	54	2311141	Guard, Upper Left	1
17	*a 221720W	Nut	8	55	2311142	Guard, Upper Right	1
18	55434W	O-Ring	2	56	Y27E-06	Washer	4
19	15128W	Washer	2	57	16597W	Capscrew	4
20	134821W	Nut	2	61	221775W	Washer	2
21	15240W	Pin	2	62	16833W	Capscrew	2
30	2311133	Turner, Bolt-On Hook	1				
31	221771W	Washer	14		*a	Use 318702W Thread Lock	

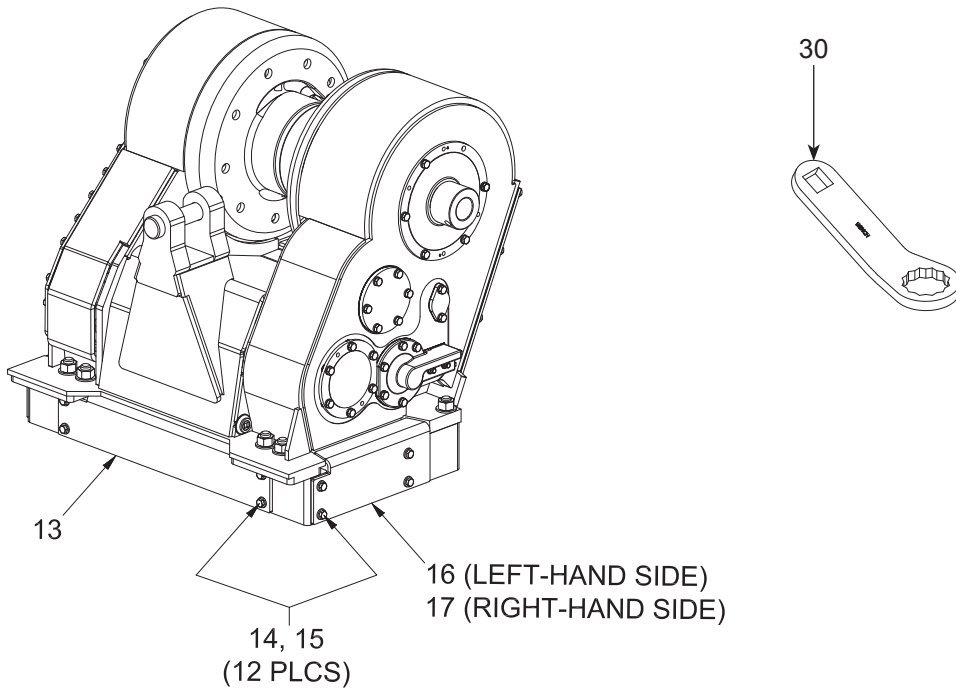
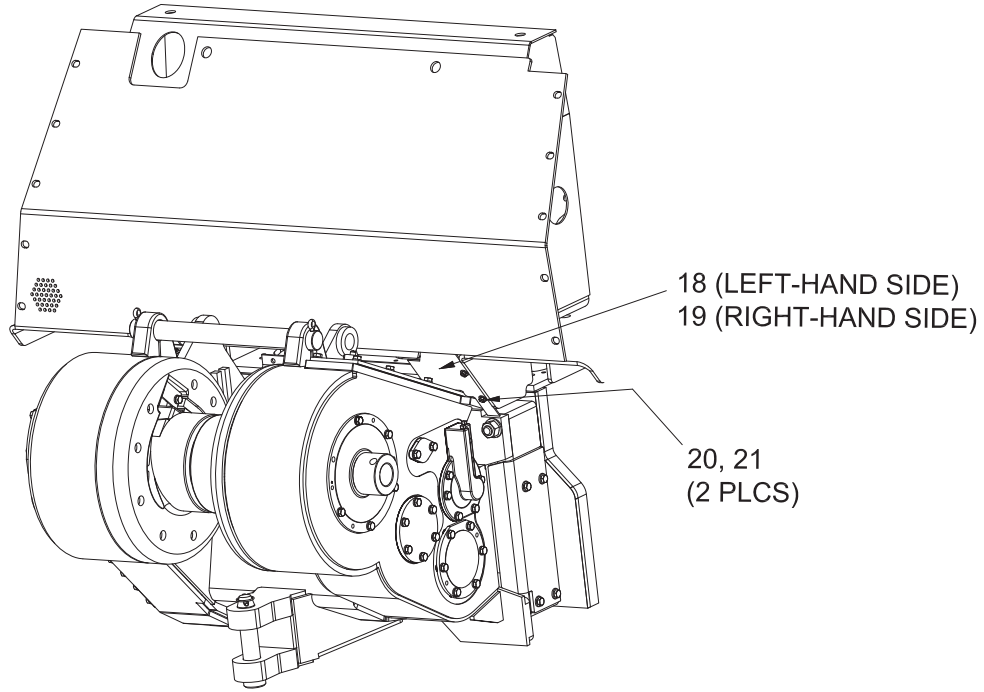
### Mounting Parts

Caterpillar D6G2 (C82)  
First Used on S/N AW6F-1656  
Page 1 of 4



### Mounting Parts

Caterpillar D6G2 (C82)  
First Used on S/N AW6F-1656  
Page 2 of 4

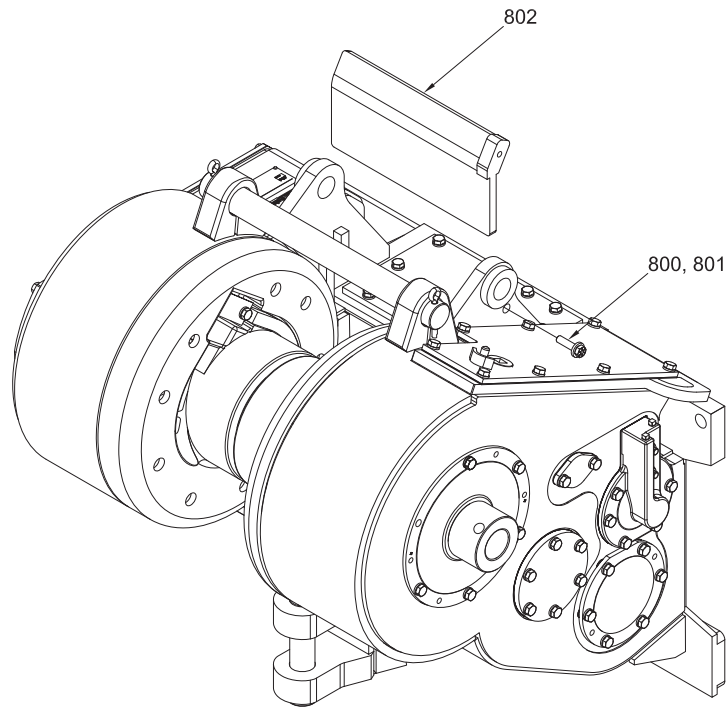
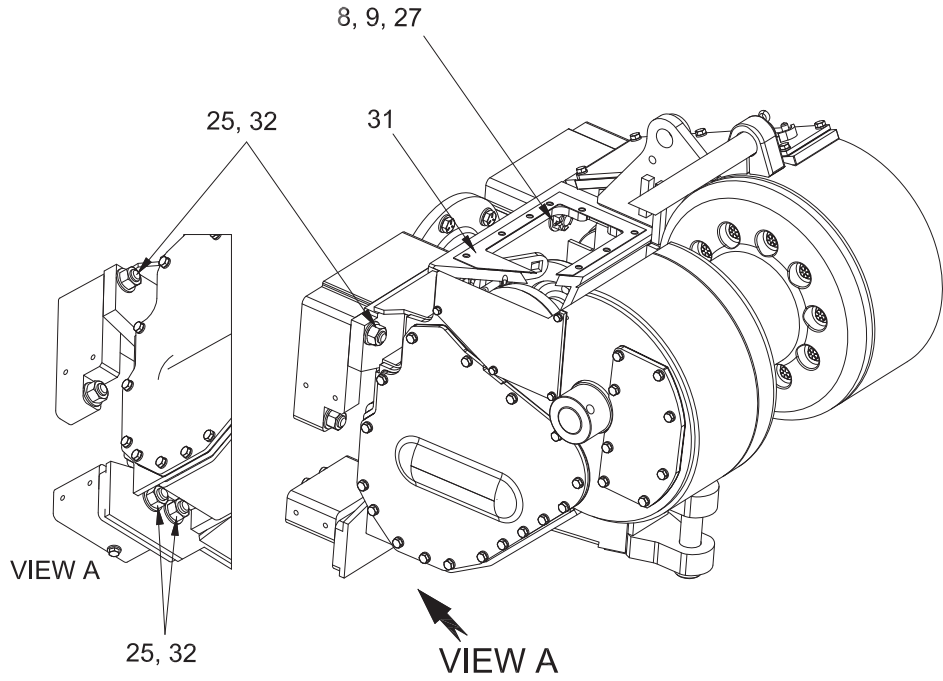


**Mounting Parts**

Caterpillar D6G2 (C82)

First Used on S/N AW6F-1656

Page 3 of 4



**Mounting Parts**

Caterpillar D6G2 (C82)  
 First Used on S/N AW6F-1656  
 Page 4 of 4

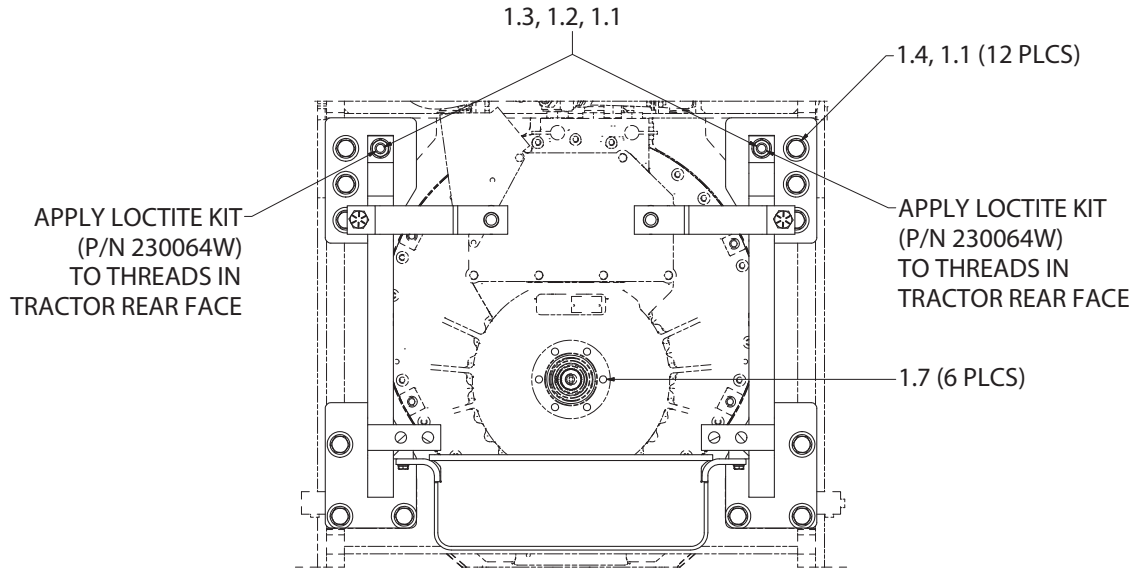
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
2	2311105	Pilot, PTO	1	20	16597W	Capscrew	4
3	Y27E-12	Washer	6	21	Y27E-06	Washer	4
4	*a 18622W	Capscrew	6	22	2311087	Shaft, PTO Drive	1
5	2311102	Spacer, Lower	2	23	*b 2311114	Stud	6
6	2311100	Spacer, Left	1	24	*b 2311115	Stud	2
7	2311101	Spacer, Right	1	25	221780W	Washer	8
8	134821W	Nut	2	26	55434W	O-Ring	2
9	15240W	Pin	2	27	15128W	Washer	2
10	*b 2311110	Stud	2	28	90937W	O-Ring	2
11	19929W	Pin	1	30	2310958	Wrench	1
12	9528W	Ring, Pin Retainer	1	31	224799W	Gasket	1
13	2311140	Guard, Bottom	1	32	*a 221720W	Nut	8
14	221771W	Washer	12	800	R13811077	Capscrew	1
15	16829W	Capscrew	12	801	221772W	Washer	1
16	2311138	Guard, Left	1	802	2313020	Turner, Removable Hook	1
17	2311139	Guard, Right	1				
18	2311141	Guard, Upper Left	1		*a Use 318702W Thread Lock		
19	2311142	Guard, Upper Right	1		*b Use 230064W Lockite Kit		

### Mounting Parts

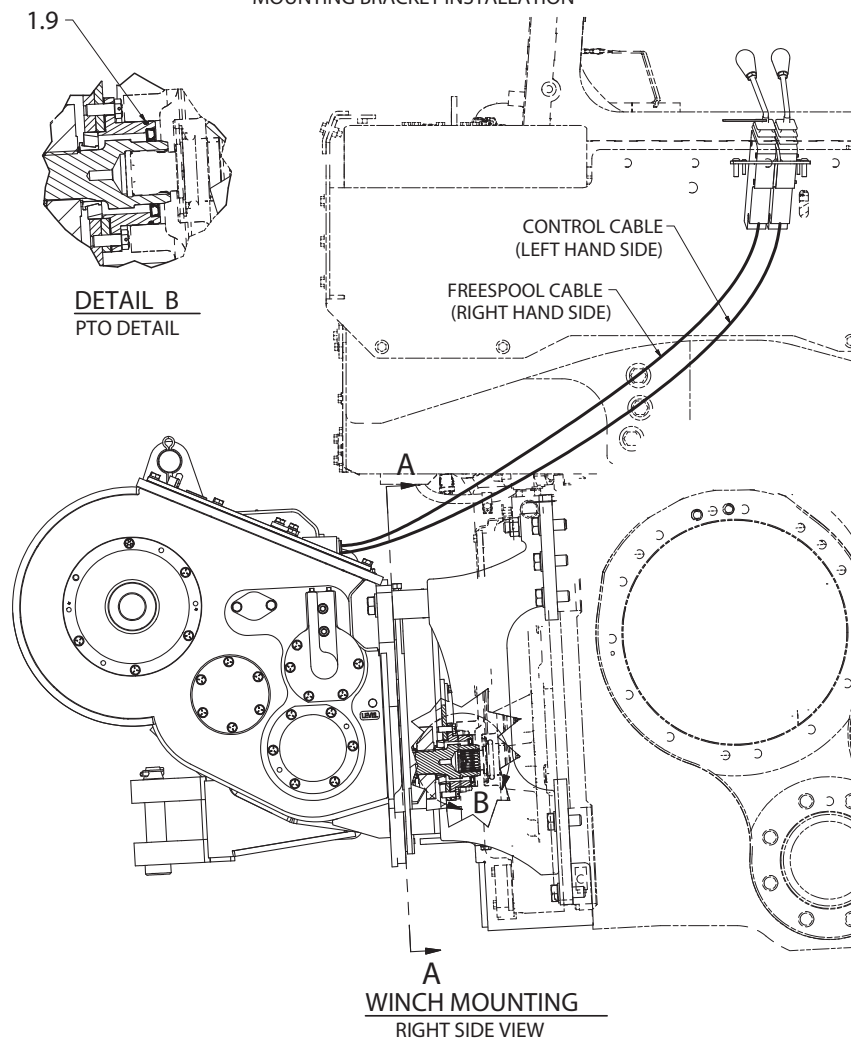
Caterpillar D6R2 (C711)

For Tractors with Serial Numbers Prefix: PPP, SSS & TTT

Page 1 of 2



SECTION A-A  
MOUNTING BRACKET INSTALLATION



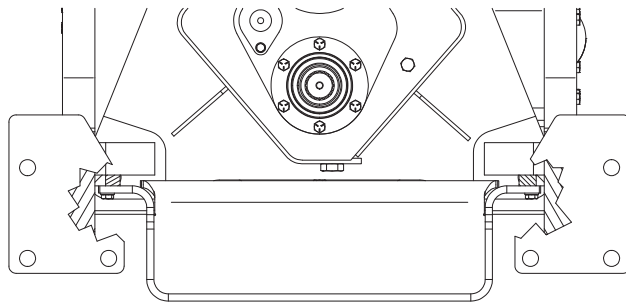
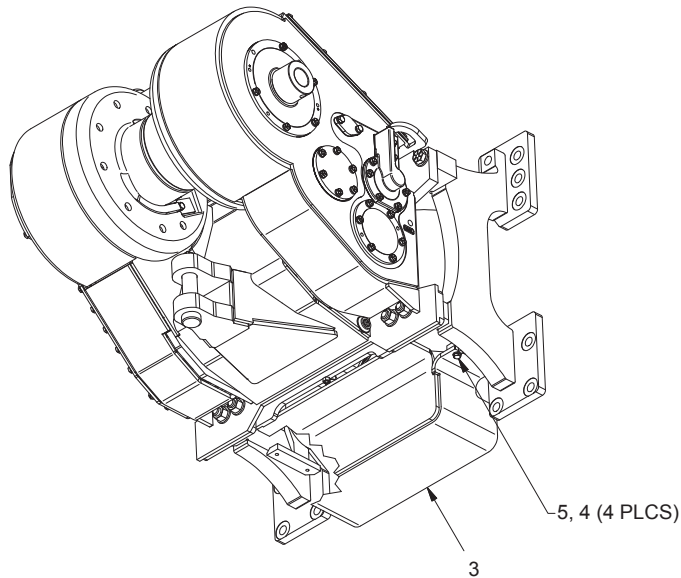


**Mounting Parts**

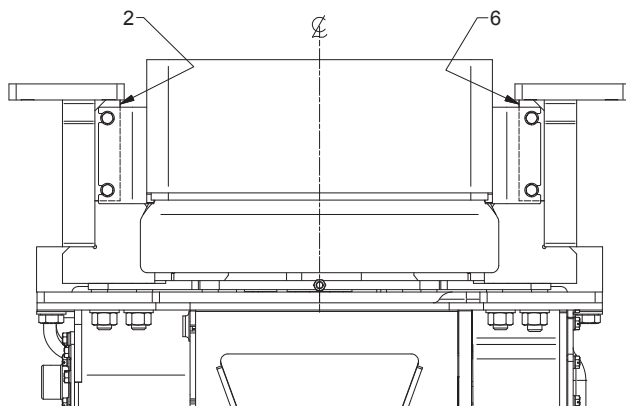
Caterpillar D6R2 (C711)

For Tractors with Serial Numbers Prefix: PPP, SSS & TTT

Page 2 of 2



FRONT VIEW



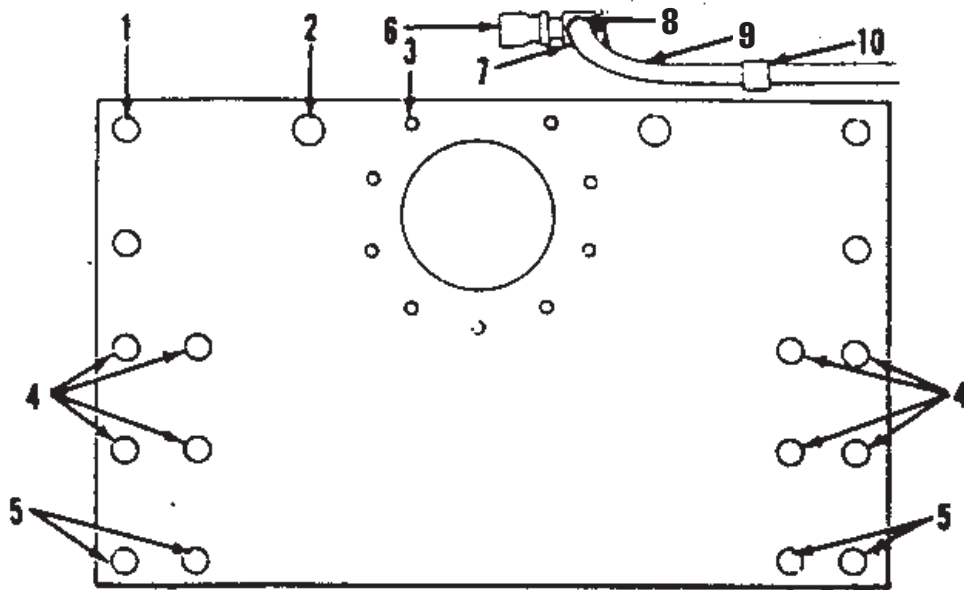
BOTTOM VIEW

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1.1	296434W	Washer	14	3	2315850	Bottom, Guard	1
1.2	292660W	Nut	2	4	296422W	Washer	4
1.3	*a 2315880	Stud	2	5	293645W	Capscrew	4
1.4	*a 225065W	Capscrew	12	6	2315868	Tap Pad, Guard Plates, LH Side	1
1.7	2307554W	Plug	6				
1.9	15887W	O-Ring	1				
2	2315879	Tap Pad, Guard Plates, RH Side	1				
				*a	Use 318702W Thread Lock		

**Mounting Parts**

Dresser TD-15B (H41)

Page 1 of 2



**Mounting Parts**

Dresser TD-15B (H41)

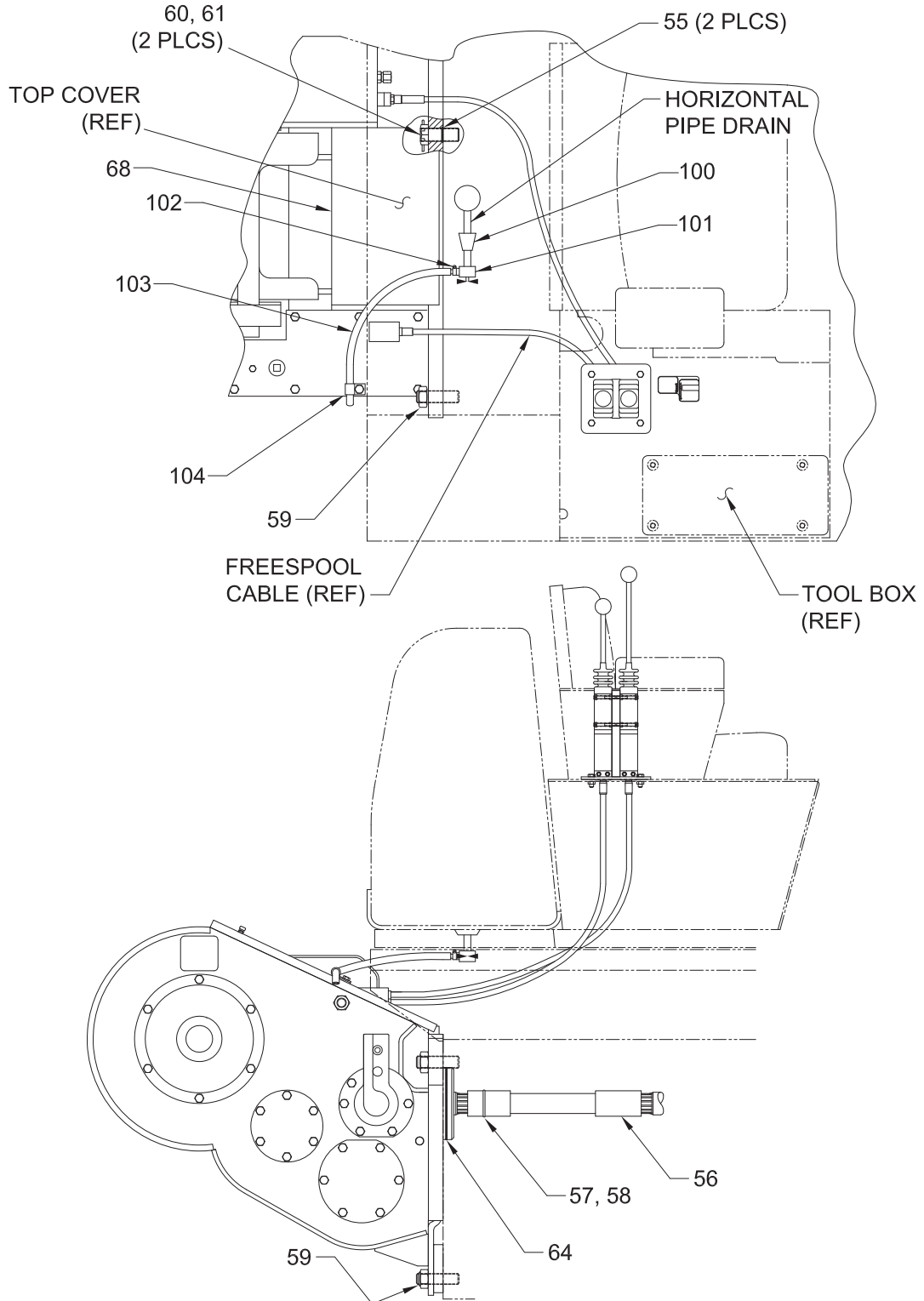
Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 225071W	Stud	2	5	53157W	Locknut	4
1	221371W	Locknut	2	6	*b 15468W	Fitting	1
2	*a 198929W	Stud	2	7	*b 16194W	Valve, Drain	1
2	55434W	O-Ring	2	8	*b 168718W	Clamp	1
2	134821W	Nut	2	9	*b 318935W	Hose	1
2	15240W	Pin, Cotter	2	10	*b 391484W	Clamp	1
3	18007W	Plug	9				
4	136578W	Plug	8	*a	Use 230064W Loctite Kit		
5	*a 254931W	Stud	4	*b	Included in Kit 369519W		

# Mounting Parts

Dresser TD-15C (H41)

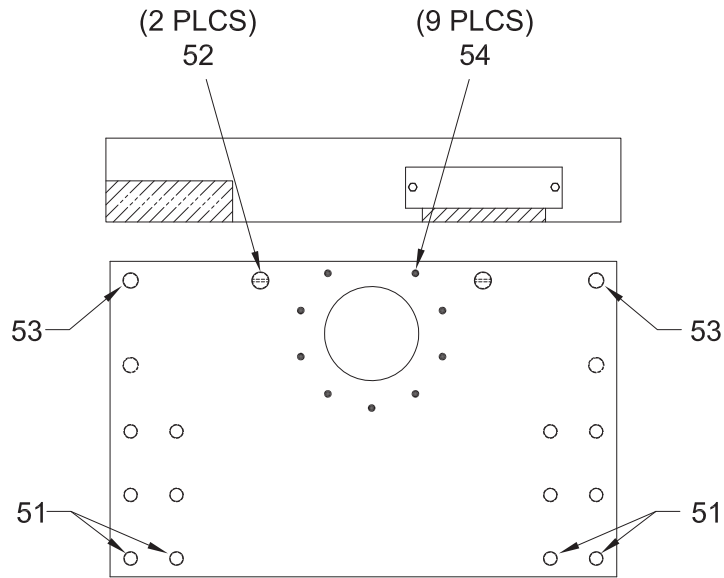
Page 1 of 2



**Mounting Parts**

Dresser TD-15C (H41)

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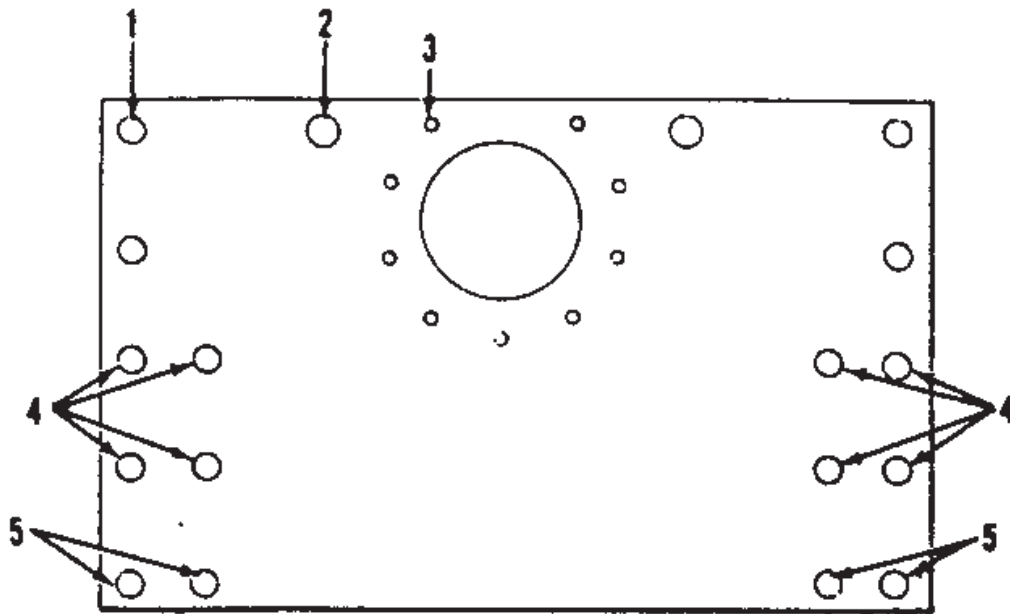


**TRACTOR REAR FACE**

(REAR COVER VIEWED AS FLAT)

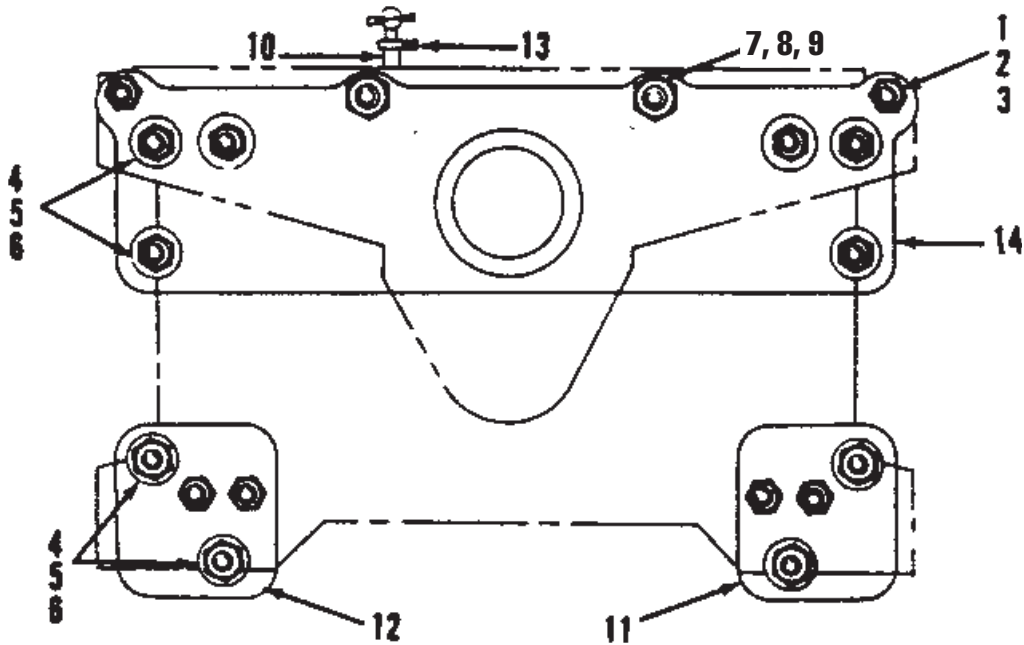
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
51	*a 254931W	Stud	4	64	90937W	O-Ring	1
52	*a 198929W	Stud	2	65	*b 16828W	Capscrew	4
53	*a 225071W	Stud	2	68	2314004	Gasket	2
54	18007W	Plug	9	100	15468W	Fitting	1
55	55434W	O-Ring	2	101	16194W	Valve, Drain	1
56	285688W	Shaft, PTO Drive	1	102	168718W	Clamp	1
57	19929W	Pin	1	103	318935W	Hose	1
58	9528W	Lockring	1	104	391484W	Clamp	1
59	*b 221721W	Nut	4				
60	134821W	Nut	2		*a Use 230064W Loctite Kit		
61	15240W	Pin, Cotter	2		*b Use 245231 Threadlock		

**Mounting Parts**  
Dresser TD-15BG (H42)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 198930W	Stud	2	4	136578W	Plug	8
1	221371W	Locknut	2	5	*a 254931W	Stud	4
2	*a 198929W	Stud	2	5	15016W	Nut	4
2	55434W	O-Ring	2	5	15166W	Lockwasher	4
2	134821W	Nut	2				
2	15259W	Pin, Cotter	2				
3	18007W	Plug	9		*a Use 230064W Loctite Kit		

**Mounting Parts**  
Dresser TD-15E (H44, H45)

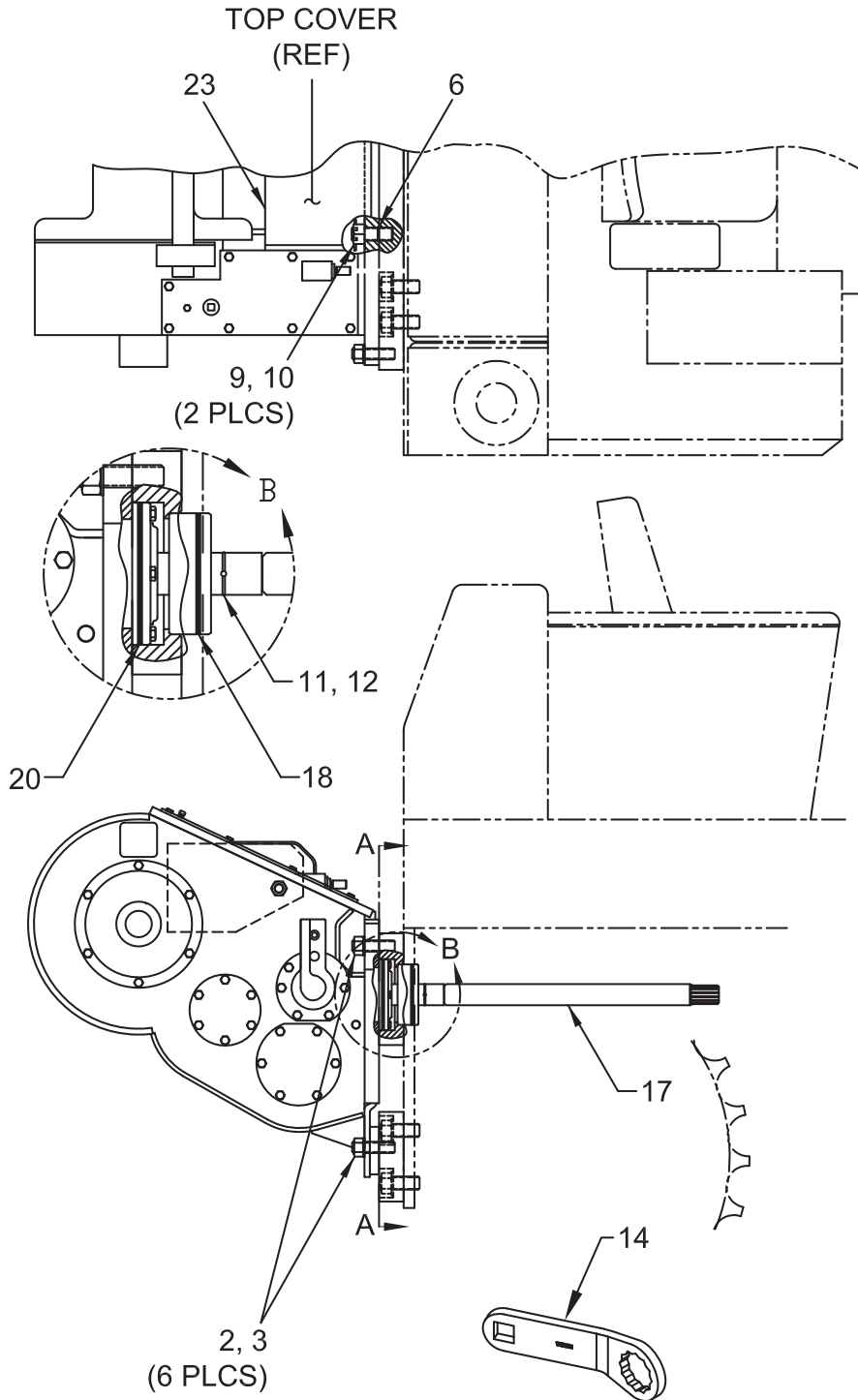


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 254931W	Stud	6	9	15240W	Pin, Cotter	2
2	221721W	Nut	6	10	318935W	Hose	1
3	221780W	Washer	6	11	373640W	Pad, RH Side	1
4	*a 198930W	Stud	10	12	373641W	Pad, LH Side	1
5	15137W	Washer	10	13	166857W	Clamp	1
6	221723W	Nut	10	14	373643W	Plate, Mounting - Top	1
7	*a 304381W	Stud	2				
8	15061W	Nut, Slotted	2	*a	Use 230064W Loctite Kit		

### Mounting Parts

Dressta TD-15H Tier II and TD-15M (H47)

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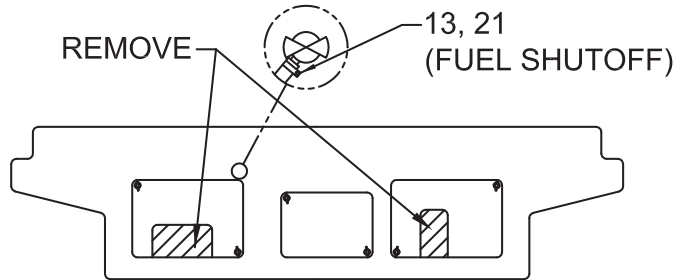




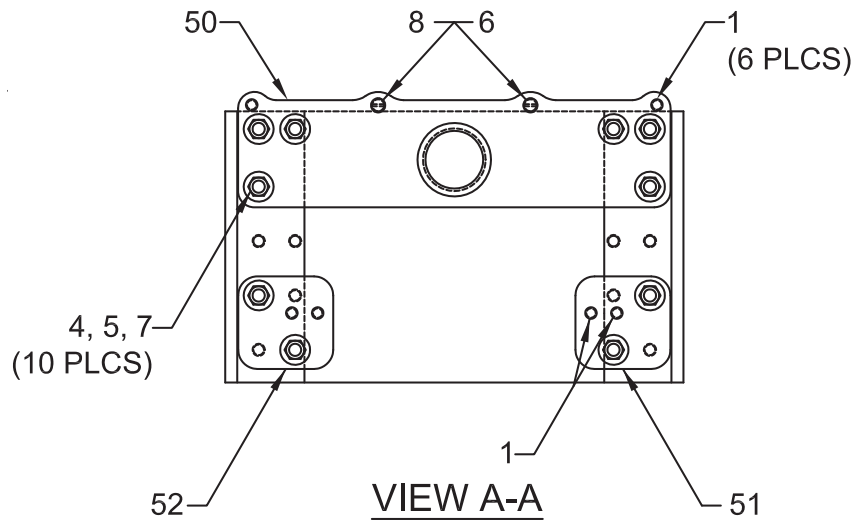
**Mounting Parts**

Dressta TD-15H Tier II and TD-15M (H47)

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REAR ACCESS  
COVER ALTERATION



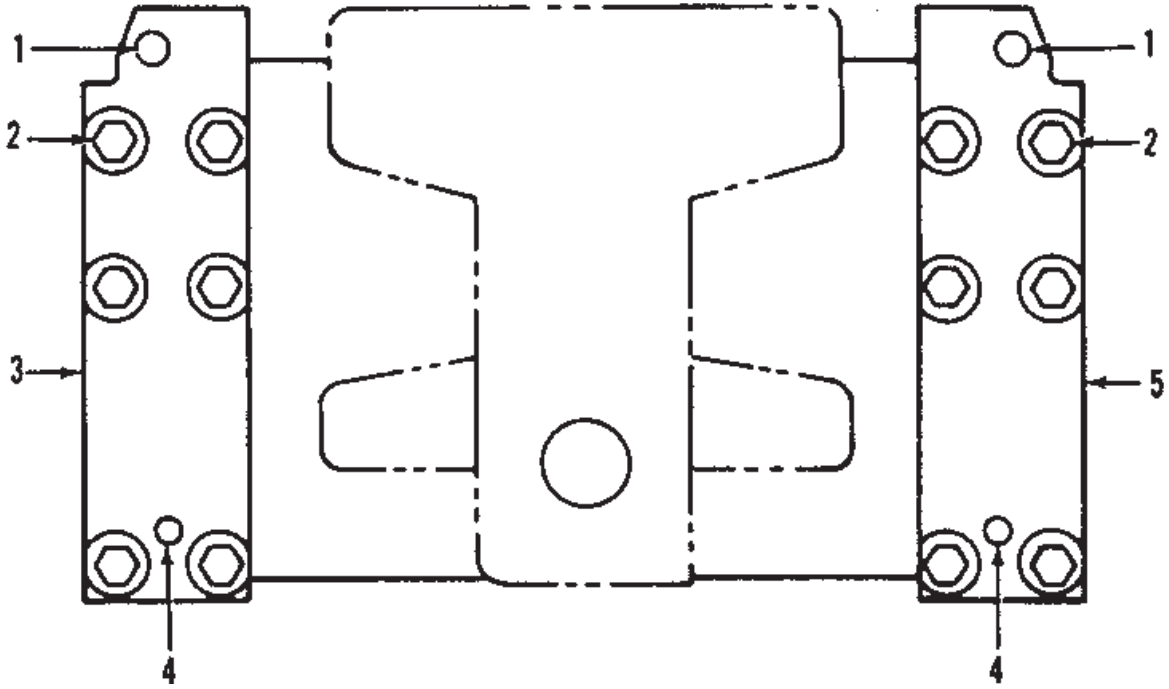
VIEW A-A  
TRACTOR REAR FACE

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 254931W	Stud	6	14	2310958	Wrench, Extension Torque	1
2	221721W	Nut	6	17	373645W	Shaft, PTO Drive	1
3	221780W	Washer	6	18	15893W	O-Ring	1
4	*a 198930W	Stud	10	20	90937W	O-Ring	1
5	15137W	Washer	10	21	166857W	Clamp	1
6	55434W	O-Ring	2	22	2304387W	Bracket, Mounting	1
7	221723W	Nut	10	23	224799W	Gasket	1
8	*a 304381W	Stud	2	50	2307776W	Assembly, Top Mounting Plate	1
9	15061W	Nut	2	51	2307778W	Plate, RH Bottom Mounting Pad	1
10	15240W	Pin	2	52	2307779W	Plate, LH Bottom Mounting Pad	1
11	19929W	Pin	1				
12	9528W	Ring, Lock	1				
13	318935W	Hose	1				
				*a	Use 230064W Loctite Kit		

**Mounting Parts**

Fiat-Allis 10C (A47)

Page 1 of 2



**Mounting Parts**

Fiat-Allis 10C (A47)

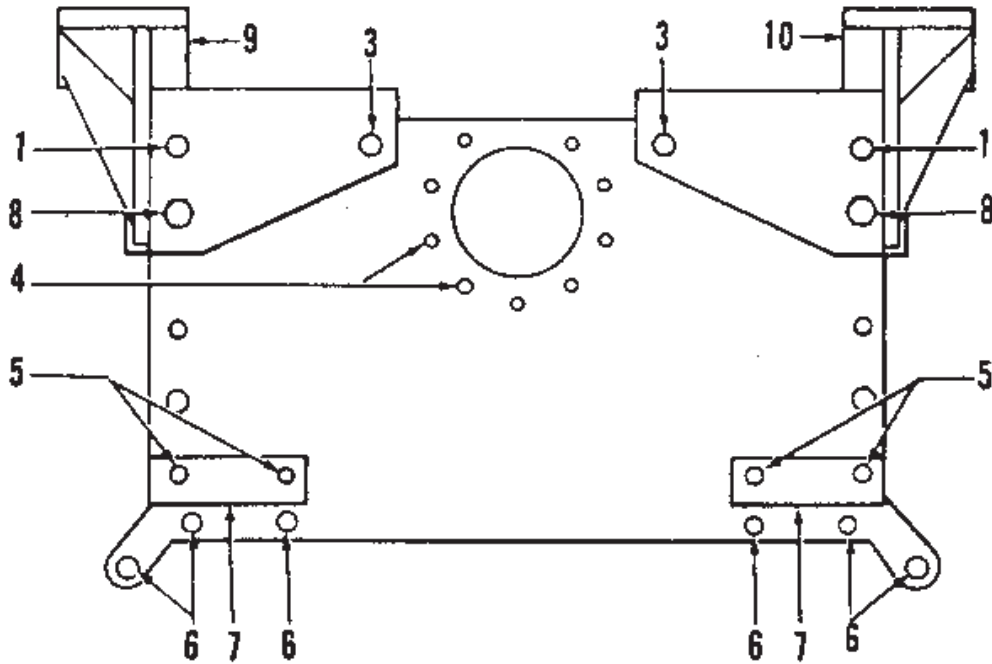
Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a	253816W	2	4	*a	253818W	2
1		221725W	2	4		221721W	2
2		226430W	12	5		335457W	1
2		292689W	12				
3		335456W	1		*a	Use 230064W Loctite Kit	

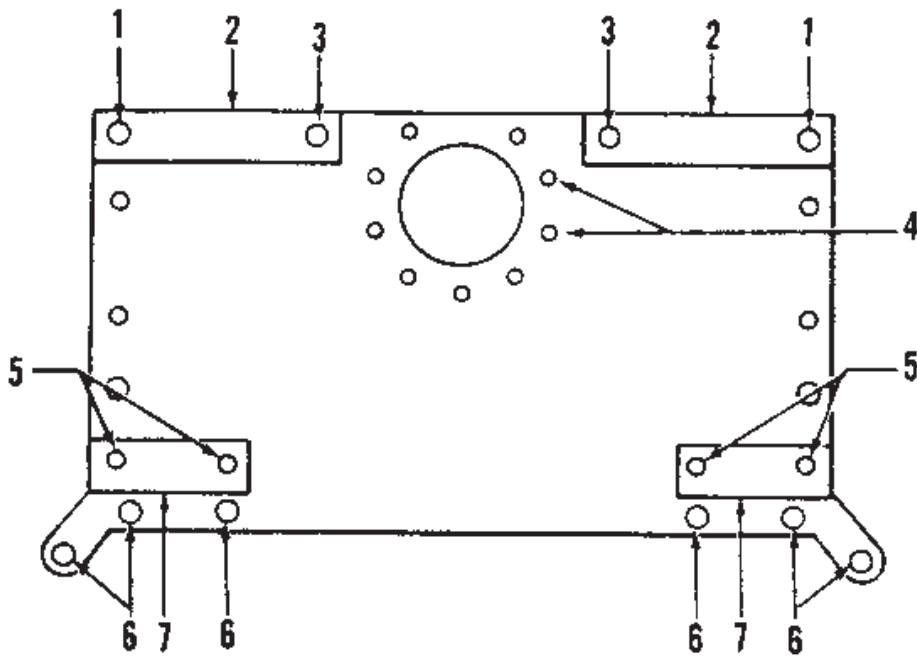
### Mounting Parts

Fiat-Allis 11B (A41, A42)

Page 1 of 2



With Roll Over Protection



Without Roll Over Protection

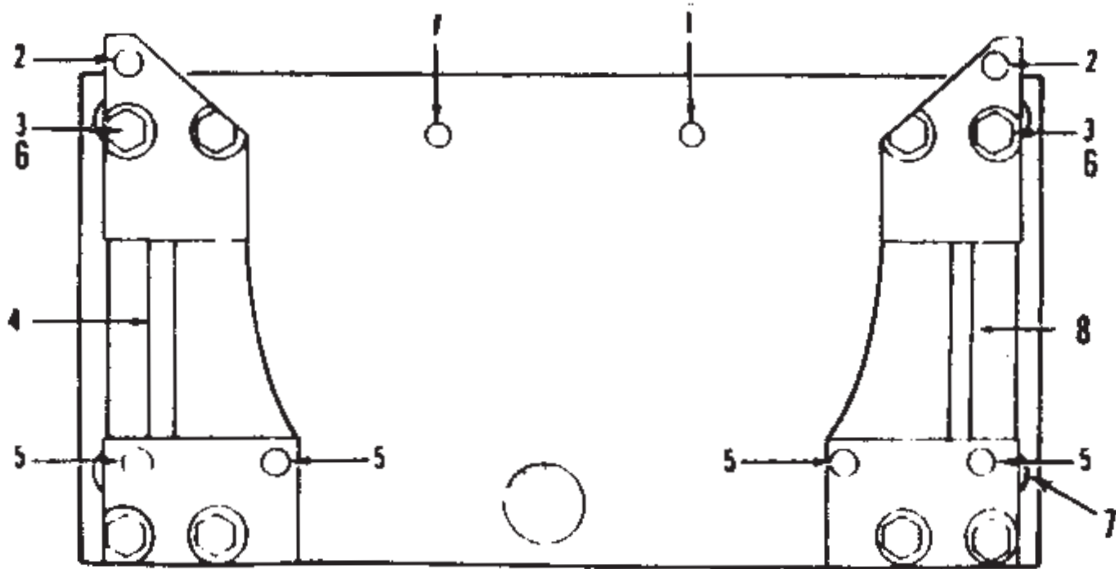
**Mounting Parts**  
 Fiat-Allis 11B (A41, A42)  
 Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 216224W	Stud	2	5	*a 35444W	Stud	4
1	15018W	Nut	2	5	15016W	Nut	4
1	15168W	Lockwasher	2	5	15166W	Lockwasher	4
1	223453W	Shim .020	AR	5	223453W	Shim .020	AR
2	217615W	Plate	2	6	156879W	Plug	6
3	*a 216225W	Stud	2	7	217616W	Plate	2
3	134821W	Nut	2	8	221691W	Capscrew	2
3	15240W	Pin, Cotter	2	9	-----	Bracket, LH Side	1
3	55434W	O-Ring	2	10	-----	Bracket, RH Side	1
3	223453W	Shim .020	AR				
4	192949W	Plug	9		*a	Use 230064W Loctite Kit	

**Mounting Parts**

Fiat-Allis 14B/14C (A44, A45), FD14 (A45), and F/H14C (A46)

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Note: This winch includes a gear box,  
See gear box page in Section 2  
for related gear box parts.

**Mounting Parts**

Fiat-Allis 14B/14C (A44, A45), FD14 (A45), and F/H14C (A46)

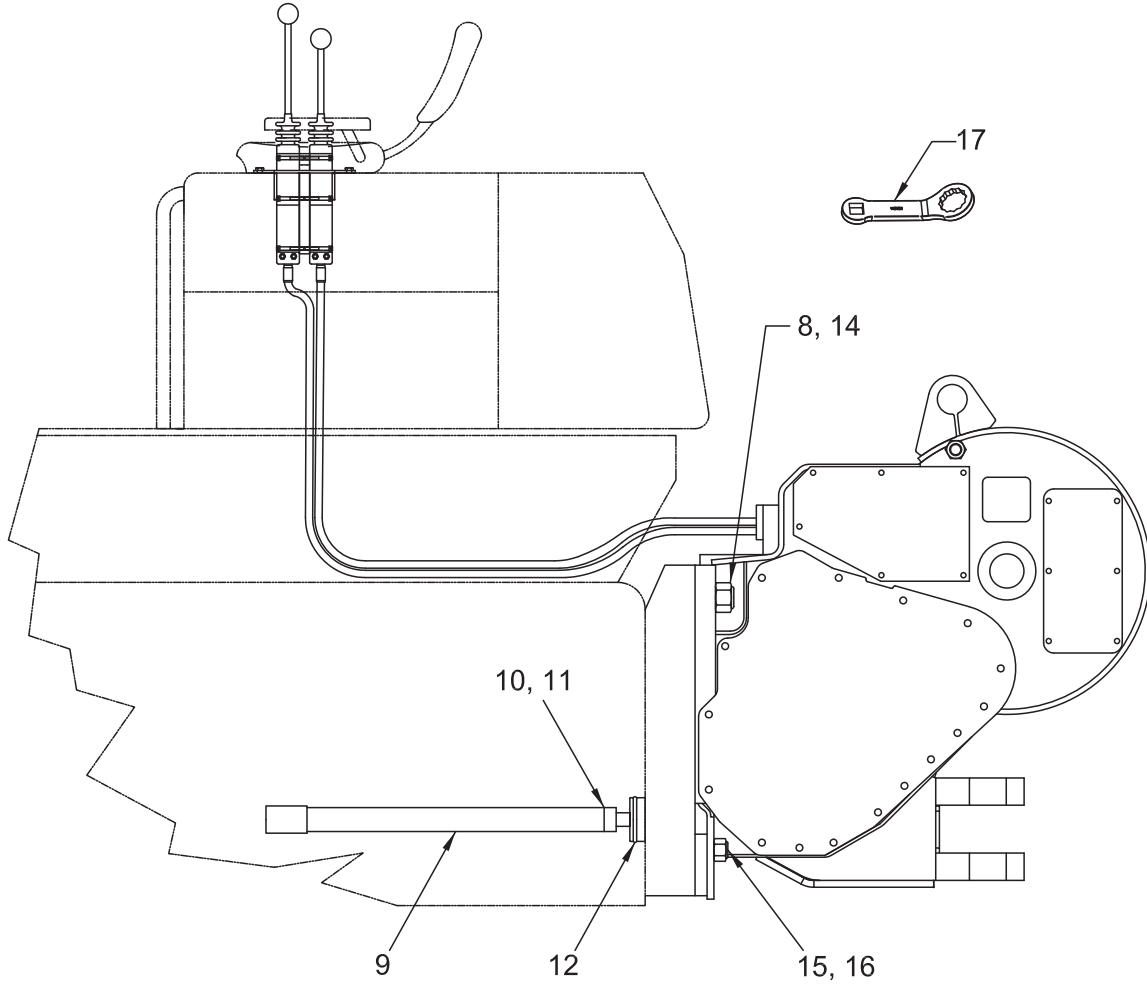
Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a, *c 226429W	Capscrew	2	5	*b 254931W	Stud	4
1	221780W	Washer	2	6	*c 15166W	Lockwasher	4
2	*b, *c 192948W	Stud	2	6	296434W	Washer	4
2	383917W	Capscrew	2	7	*c 221721W	Nut	4
2	*c 15168W	Lockwasher	2	7	221780W	Washer	4
2	15128W	Washer	2	7	15110W	Locknut	4
2	*c 221725W	Nut	2	8	*c 257799W	Spacer, RH Side	1
3	226430W	Capscrew	8	8	388652W	Spacer, RH Side	1
3	*c 15166W	Lockwasher	8				
3	296434W	Washer	8		*a Metric		
4	*c 258200W	Spacer, LH Side	1		*b Use 230064W Loctite Kit		
4	388653W	Spacer, LH Side	1		*c Last Used on S/N W6F-9923 and S/N AW6F-1000		

**Mounting Parts**

Fiat Hitachi 14E (A48)

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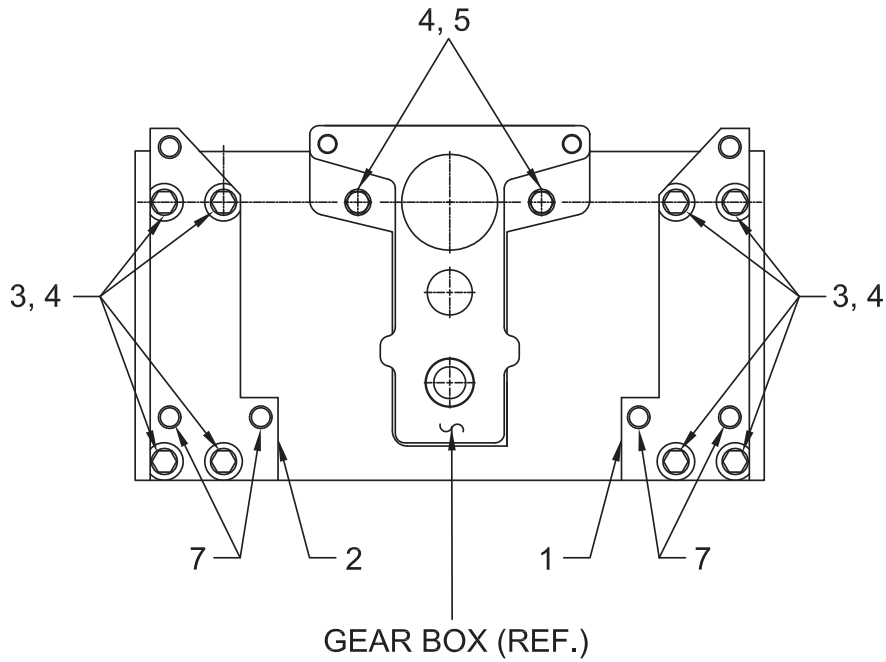




**Mounting Parts**

Fiat Hitachi 14E (A48)

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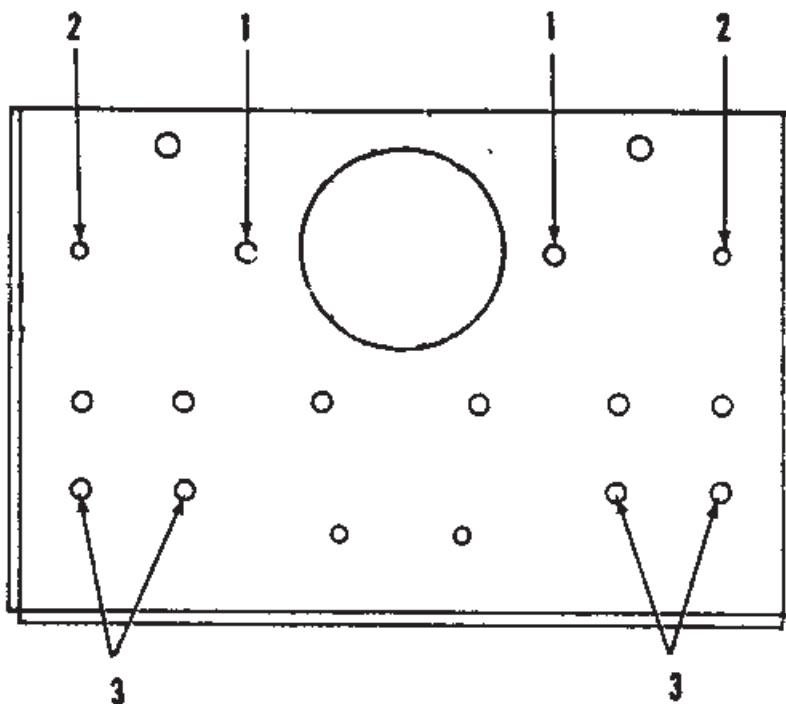


Note: This winch includes a gear box,  
See gear box page in Section 2  
for related gear box parts.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	338652W	Spacer, RH Side	1	11	250484W	Ring, Snap	1
2	338653W	Spacer, LH Side	1	12	15880W	O-Ring	1
3	226430W	Capscrew	8	14	15128W	Washer	2
4	296434W	Washer	10	15	15110W	Nut	4
5	226429W	Capscrew	2	16	221780W	Washer	4
7	*a 254931W	Stud	4	17	2310958	Wrench	1
8	*a 383917W	Capscrew	2				
9	287032W	Shaft, PTO Drive	1		*a Use 230064W Loctite Kit		
10	19928W	Pin	1				

**Mounting Parts**

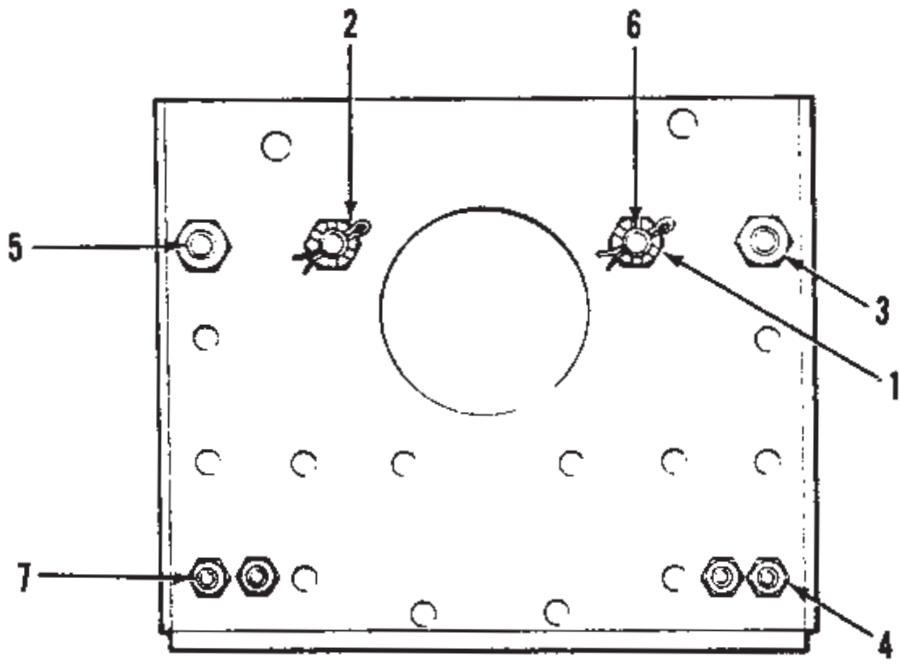
John Deere 750 (E32, E41), 750B (E32, E41) and 755 (E32, E41)  
 Last Used on S/N W6F-7143 for 750 and 750B



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 253817W	Stud	2	2	221373W	Locknut	2
1	134821W	Nut	2	3	*a 253818W	Stud	4
1	223453W	Shim .020	AR	3	53157W	Locknut	4
1	15240W	Pin, Cotter	2				
1	55434W	O-Ring	2		*a Use 230064W Loctite Kit		
2	*a 253816W	Stud	2				

**Mounting Parts**

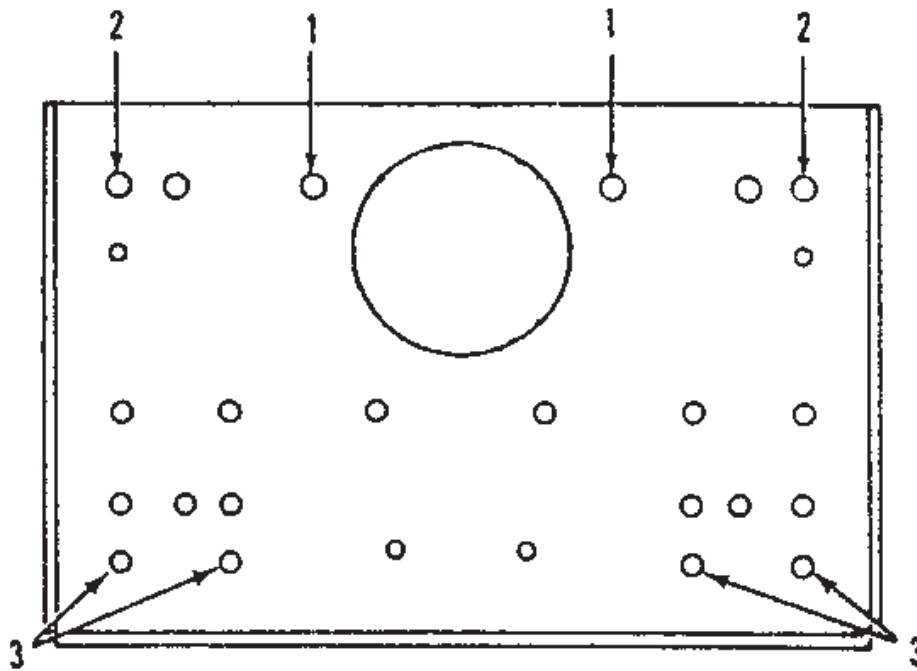
John Deere 750 (E32, E41), 750B (E32, E41) and 755 (E32, E41)  
 First Used on S/N W6F-7144 and Up, and on S/N AW6F-1001 for 750 and 750B



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	223453W	Shim .020	AR	4	53157W	Locknut	4
1	55434W	O-Ring	2	5	253816W	Stud	2
2	134821W	Nut	2	6	253817W	Stud	2
2	15240W	Pin, Cotter	2	7	253818W	Stud	2
3	221373W	Locknut	2				

### Mounting Parts

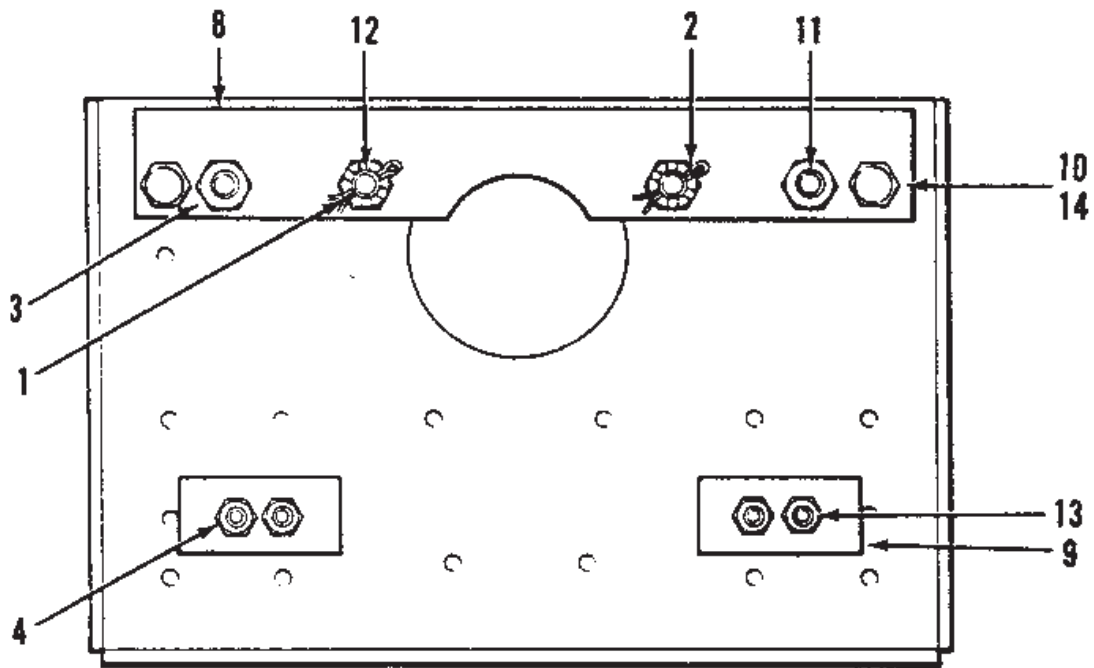
John Deere 850 (E42, E43), 850B (E42, E43) and 855 (E44)  
 Last Used on S/N W6F-7143 for 850 and 850B



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 253817W	Stud	2	2	15168W	Lockwasher	2
1	134821W	Nut	2	2	221725W	Locknut	2
1	223453W	Shim .020	AR	3	*a 253818W	Stud	4
1	15240W	Pin, Cotter	2	3	221721W	Locknut	4
1	55434W	O-Ring	2				
2	*a 253816W	Stud	2		*a	Use 230064W Loctite Kit	

### Mounting Parts

John Deere 850 (E42, E43), 850B (E42, E43) and 855 (E44)  
 First Used on S/N W6F-7144 and Up, and on S/N AW6F-1001 for 850 and 850B

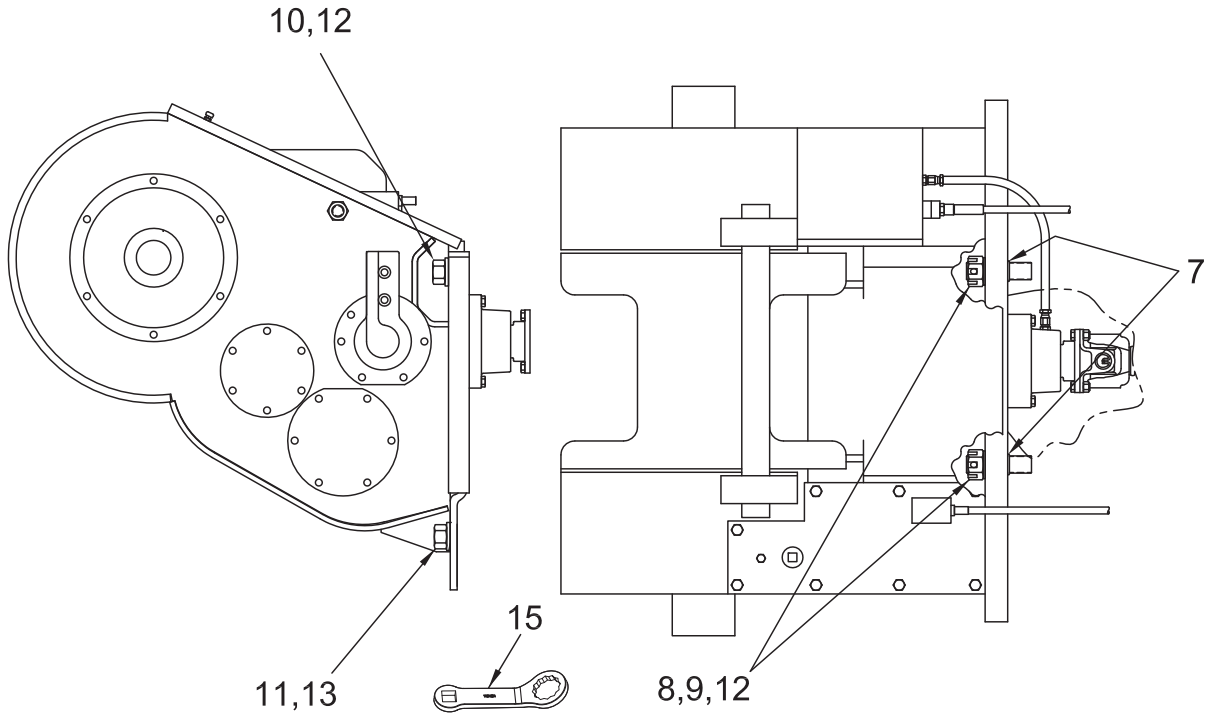


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	223453W	Shim .020	AR	9	360378W	Bracket	2
1	55434W	O-Ring	2	10	15168W	Lockwasher	2
2	134821W	Nut	2	11	321407W	Stud	2
2	15240W	Pin, Cotter	2	12	321406W	Stud	2
3	221725W	Locknut	2	13	321408W	Stud	4
4	221721W	Locknut	4	14	248321W	Capscrew	2
8	321415W	Spacer	1				

**Mounting Parts**

John Deere 750C (E45)

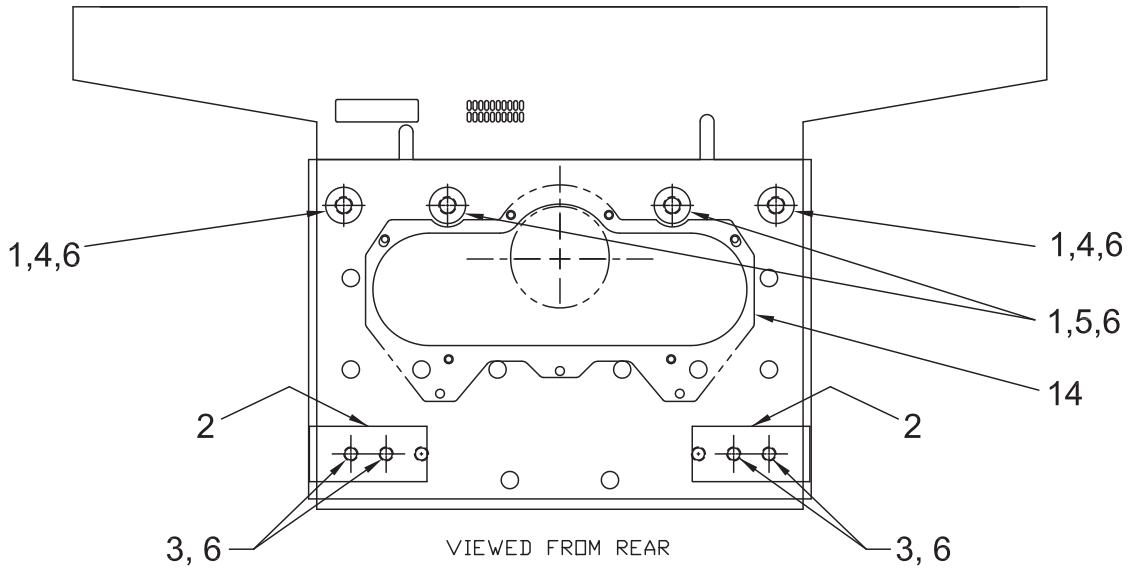
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**Mounting Parts**

John Deere 750C (E45)

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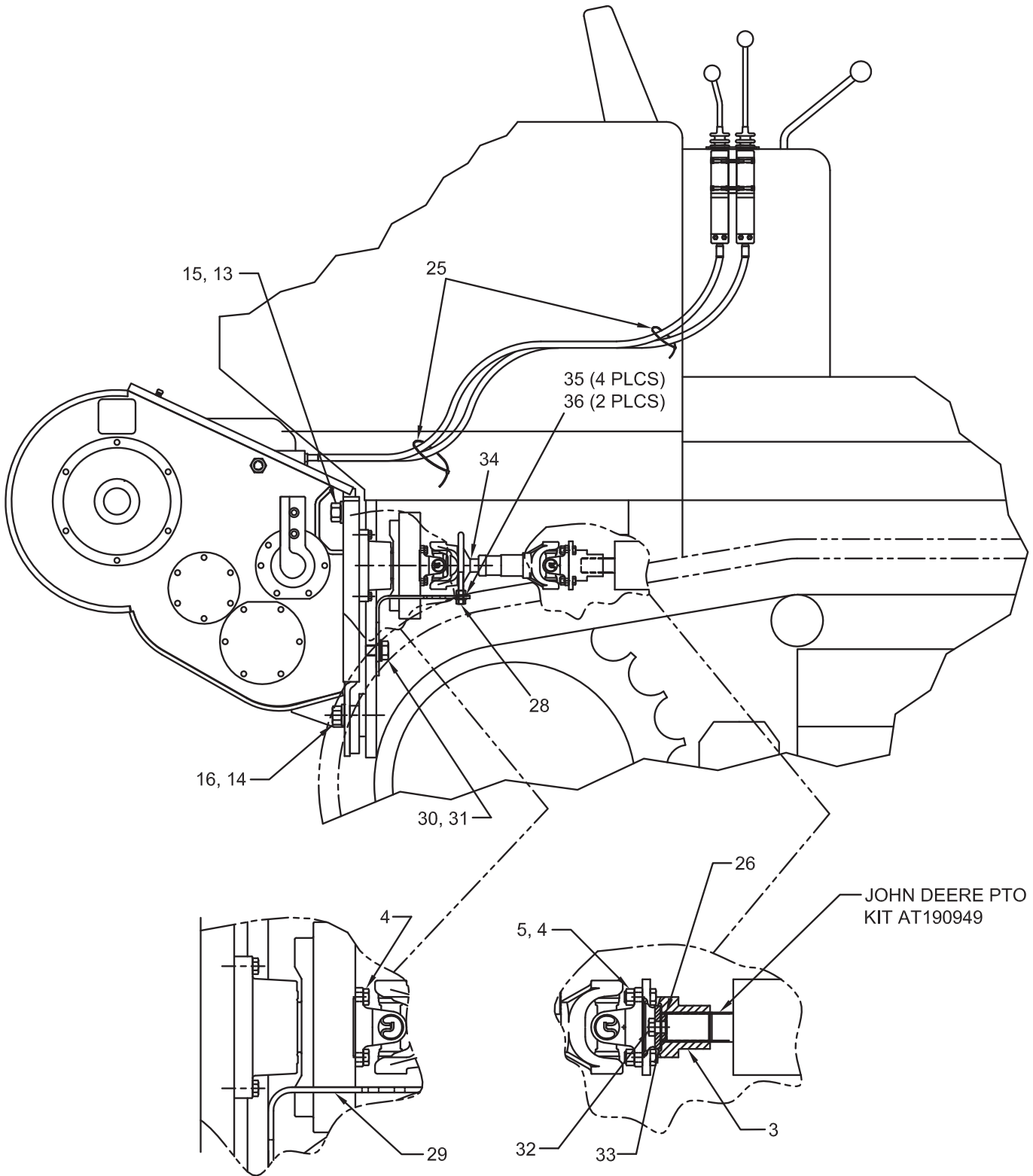


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2301529W	Washer	4	10	221725W	Nut	2
2	2301530W	Pad, Mounting	2	11	221721W	Nut	4
3	*a 2301697W	Stud	4	12	15128W	Washer	4
4	*a 2305364W	Stud	2	13	221780W	Washer	4
5	*a 2301699W	Stud	2	14	2301850W	Cover, Dust	1
6	223453W	Shim .020	AR	15	2310958	Wrench	1
7	55434W	O-Ring	2				
8	134821W	Nut	2				
9	15240W	Pin	2				
				*a	Use 230064W Loctite Kit		

### Mounting Parts

John Deere 750C Series II (E45)

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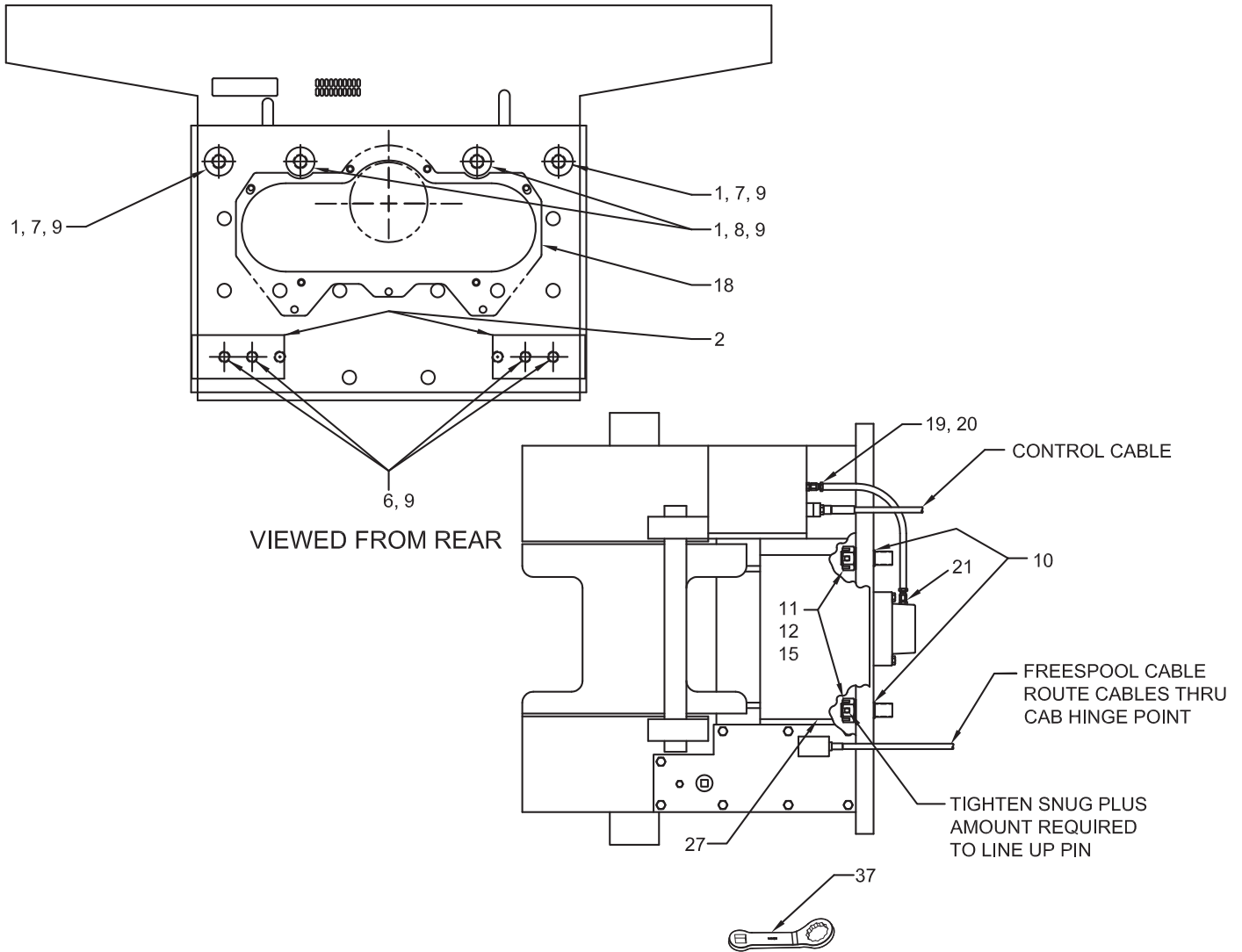




### Mounting Parts

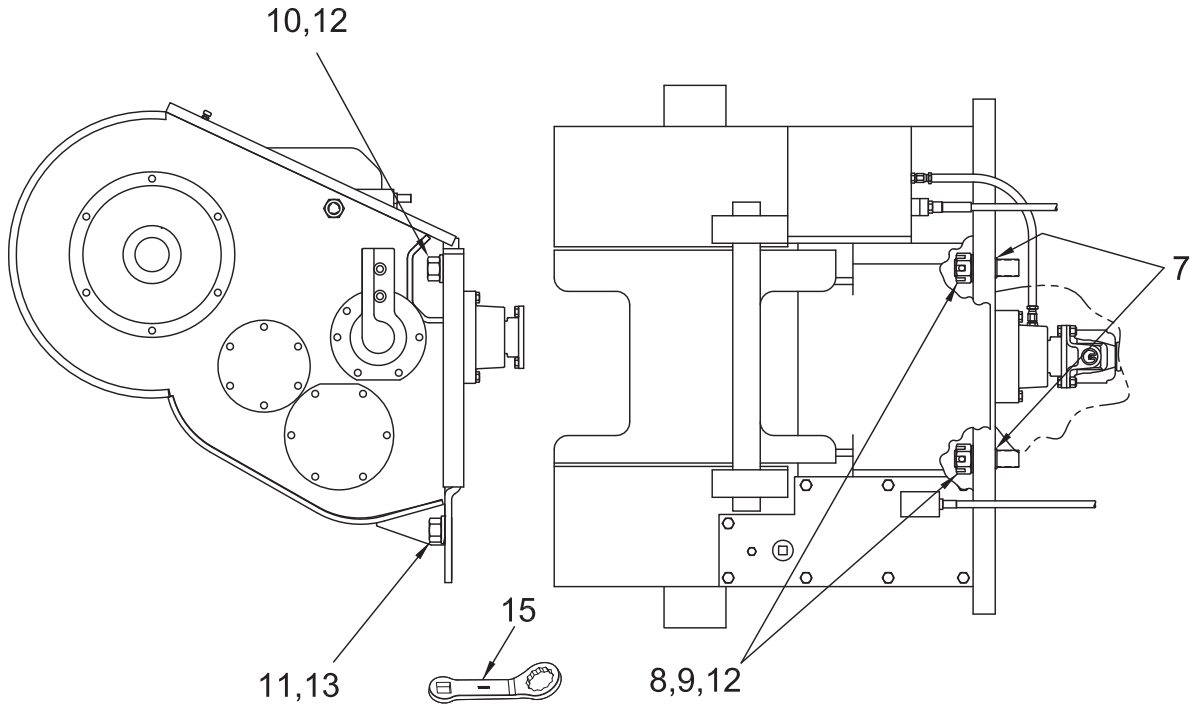
John Deere 750C Series II (E45)

Page 2 of 2



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2301529W	Washer	4	21	225094W	Fitting	1
2	2301530W	Pad, Mounting	2	22	16828W	Capscrew	4
3	2303733W	Flange, Tractor End	1	23	15134W	Washer	8
4	2301540W	Capscrew, Drive Shaft	8	24	221707W	Nut	4
5	221710W	Nut	8	25	129563W	Clamp, Strap	2
6	*a 2301697W	Stud	4	26	58916W	Ring, Snap	1
7	*a 2305364W	Stud	2	27	224799W	Gasket	1
8	*a 2301699W	Stud	2	28	2304350W	U-Bolt	1
9	223453W	Shim .020	24	29	2303981W	Driveline Guard, Winch End	1
10	55434W	O-Ring	2	30	18662W	Capscrew	2
11	134821W	Nut	2	31	15166W	Washer	2
12	15240W	Pin	2	32	292527W	Capscrew	1
13	221725W	Nut	2	33	2307311W	Washer	1
14	*b 221721W	Nut	4	34	2303929W	Shaft, PTO Drive	1
15	15128W	Washer	4	35	15135W	Washer	4
16	221780W	Washer	4	36	15158W	Washer	2
17	2304304W	Bracket, Control Lever	1	37	2310958	Wrench	1
18	2301850W	Cover, Dust	1				
19	16997W	Fitting	1				
20	223332	Assembly, Hose	1				
				*a	Use 230064W Loctite Kit		
				*b	Use 318702W Thread Lock		

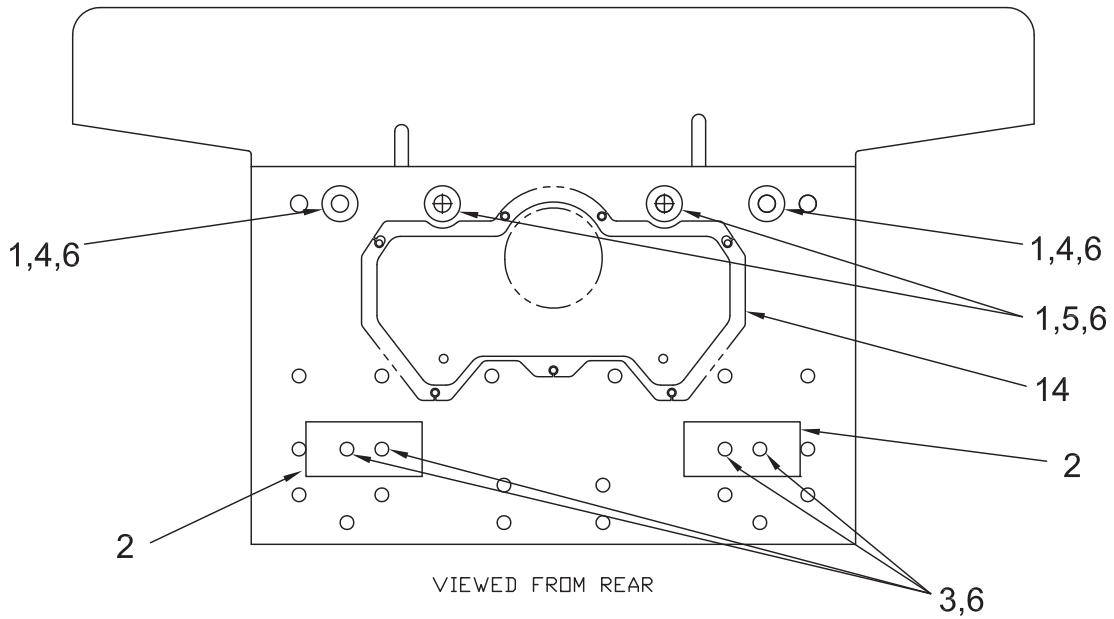
**Mounting Parts**  
John Deere 850C (E46)  
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**Mounting Parts**

John Deere 850C (E46)

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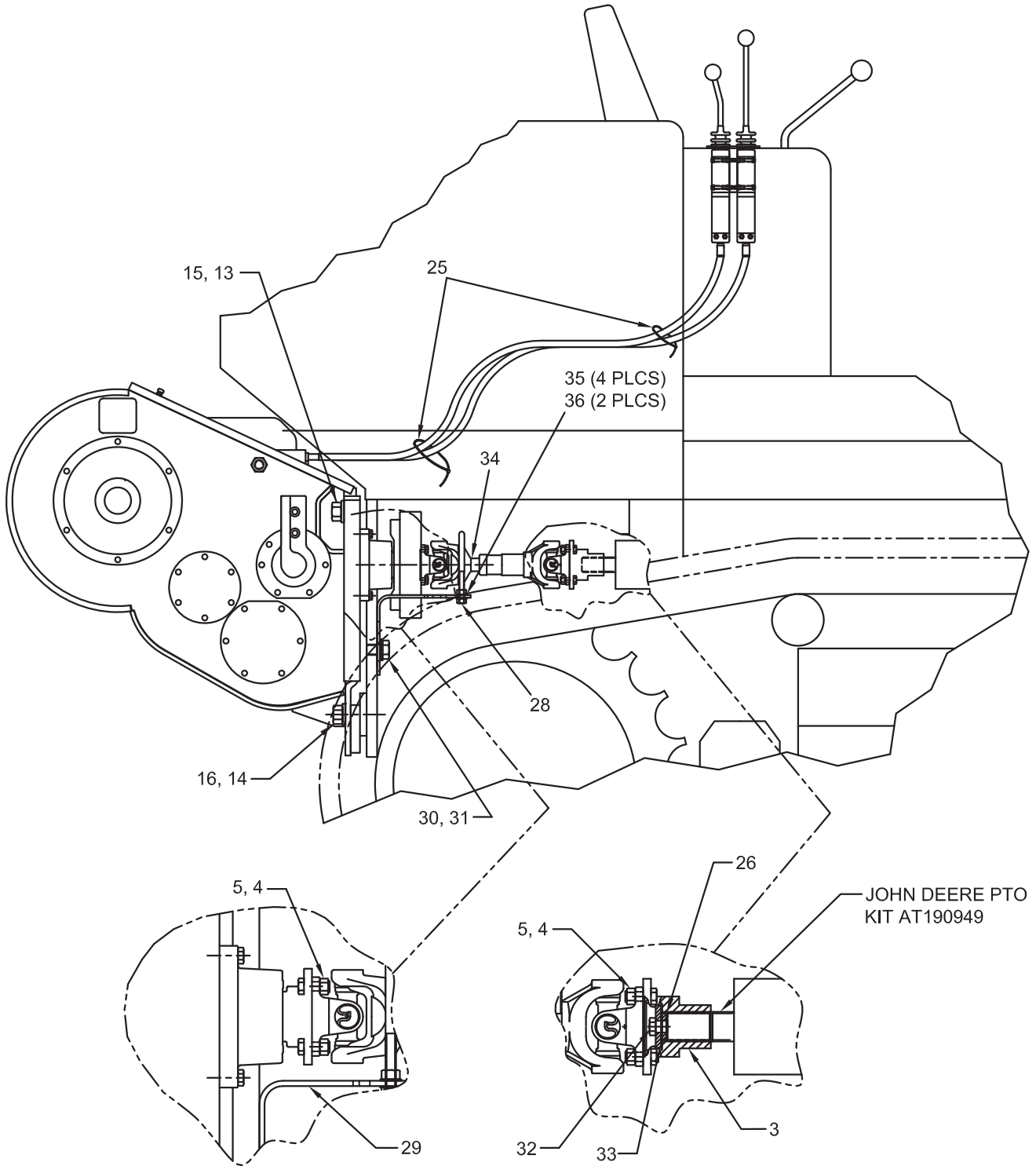


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2301529W	Washer	4	10	221725W	Nut	2
2	2301530W	Pad, Mounting	2	11	221721W	Nut	4
3	*a 2301697W	Stud	4	12	15128W	Washer	4
4	*a 2305364W	Stud	2	13	221780W	Washer	4
5	*a 2301699W	Stud	2	14	2301850W	Cover, Dust	1
6	223453W	Shim .020	AR	15	2310958	Wrench	1
7	55434W	O-Ring	2				
8	134821W	Nut	2				
9	15240W	Pin	2				
				*a	Use 230064W Loctite Kit		

### Mounting Parts

John Deere 850C Series II (E46)

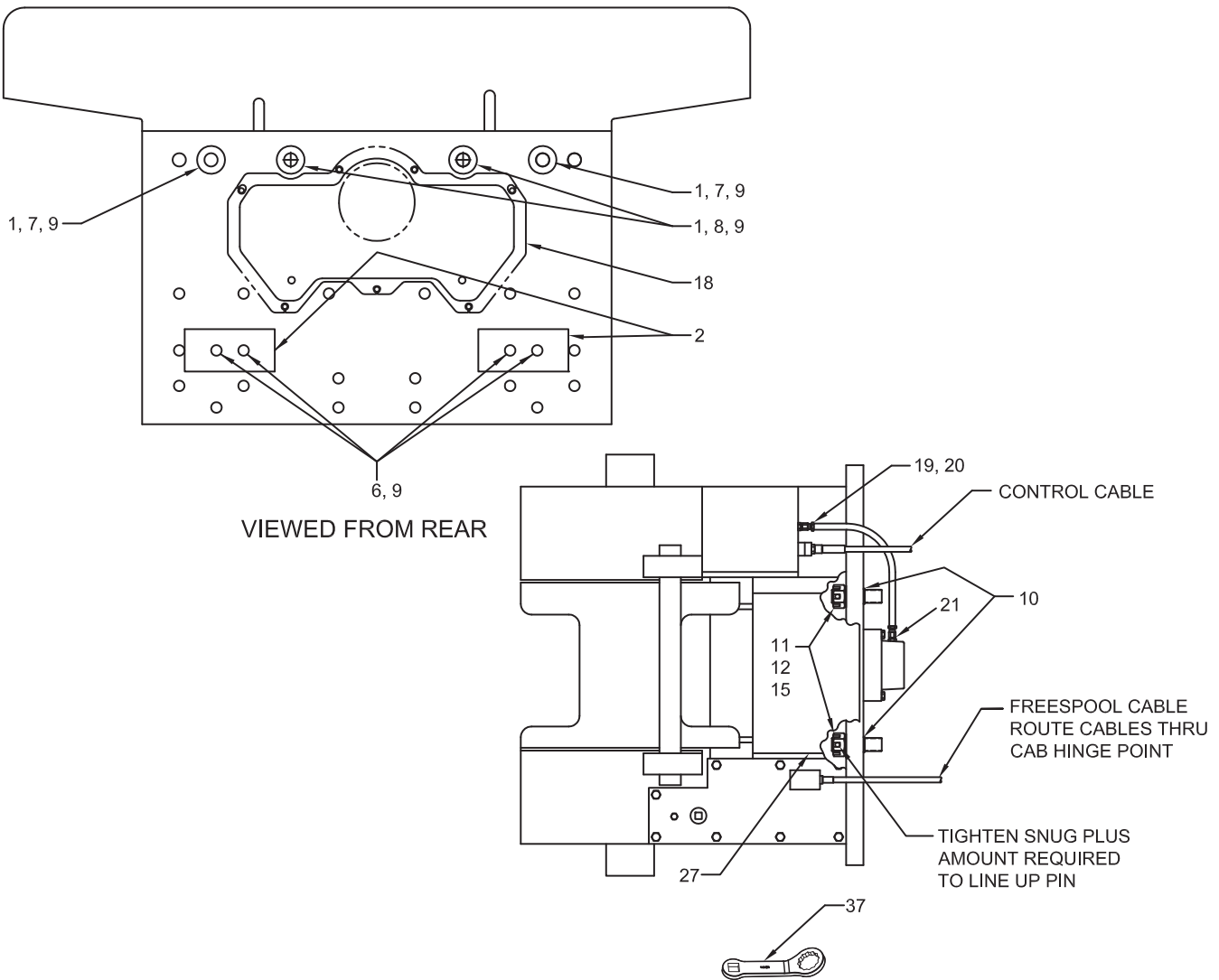
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### Mounting Parts

John Deere 850C Series II (E46)

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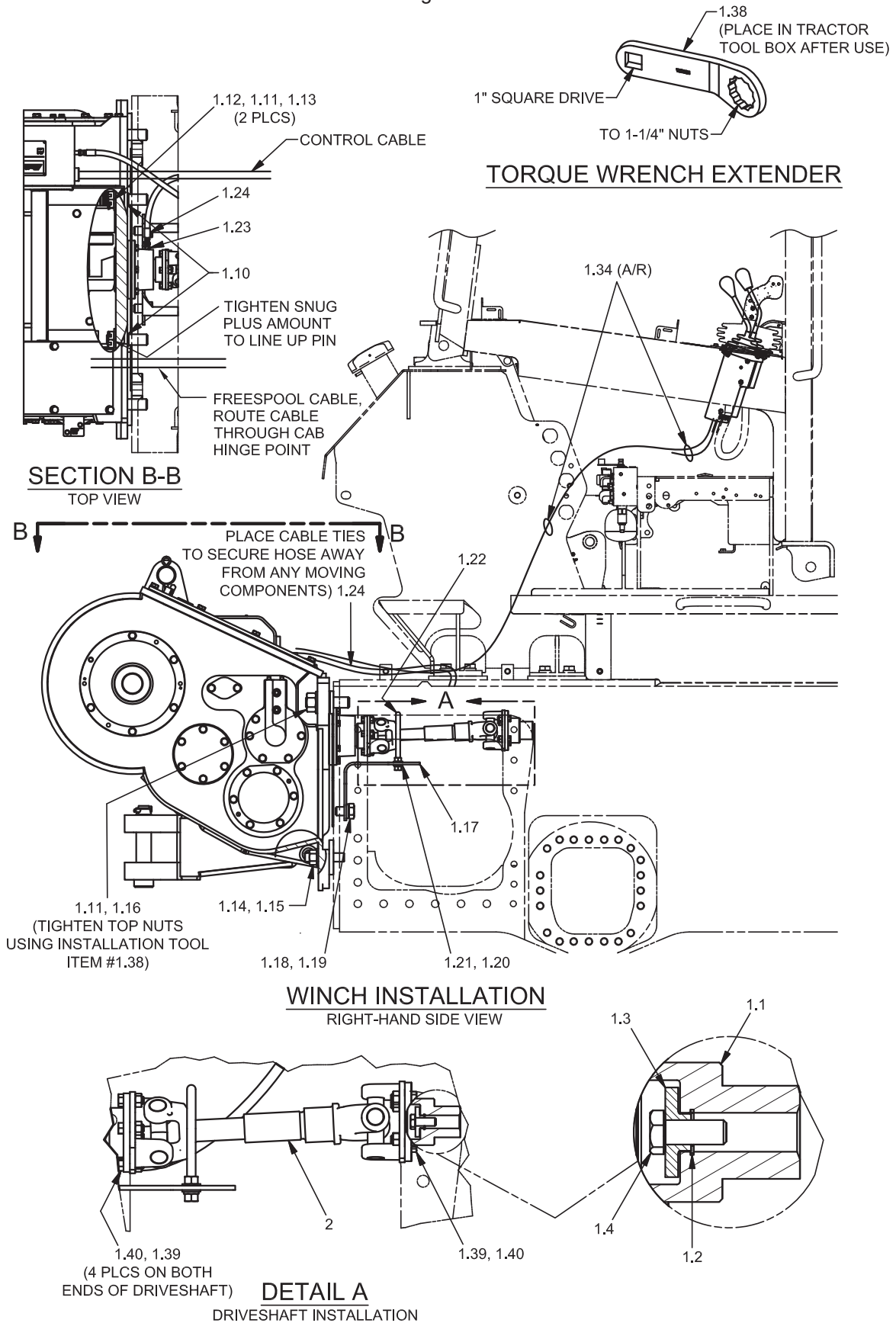


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2301529W	Washer	4	21	225094W	Fitting	1
2	2301530W	Pad, Mounting	2	22	16828W	Capscrew	4
3	2303733W	Flange, Tractor End	1	23	15134W	Washer	8
4	2301540W	Capscrew, Drive Shaft	8	24	221707W	Nut	4
5	221710W	Nut	8	25	129563W	Clamp, Strap	2
6	*a 2301697W	Stud	4	26	58916W	Ring, Snap	1
7	*a 2305364W	Stud	2	27	224799W	Gasket	1
8	*a 2301699W	Stud	2	28	2304350W	U-Bolt	1
9	223453W	Shim .020	24	29	2303981W	Driveline Guard, Winch End	1
10	55434W	O-Ring	2	30	18662W	Capscrew	2
11	134821W	Nut	2	31	15166W	Washer	2
12	15240W	Pin	2	32	292527W	Capscrew	1
13	221725W	Nut	2	33	2307311W	Washer	1
14	*b 221721W	Nut	4	34	2303929W	Shaft, PTO Drive	1
15	15128W	Washer	4	35	15135W	Washer	4
16	221780W	Washer	4	36	15158W	Washer	2
17	2304304W	Bracket, Control Lever	1	37	2310958	Wrench	1
18	2301850W	Cover, Dust	1				
19	16997W	Fitting	1				
20	223332	Assembly, Hose	1				
				*a	Use 230064W Loctite Kit		
				*b	Use 318702W Thread Lock		

### Mounting Parts

John Deere 750J/K (E464) & 850J/K (E462)

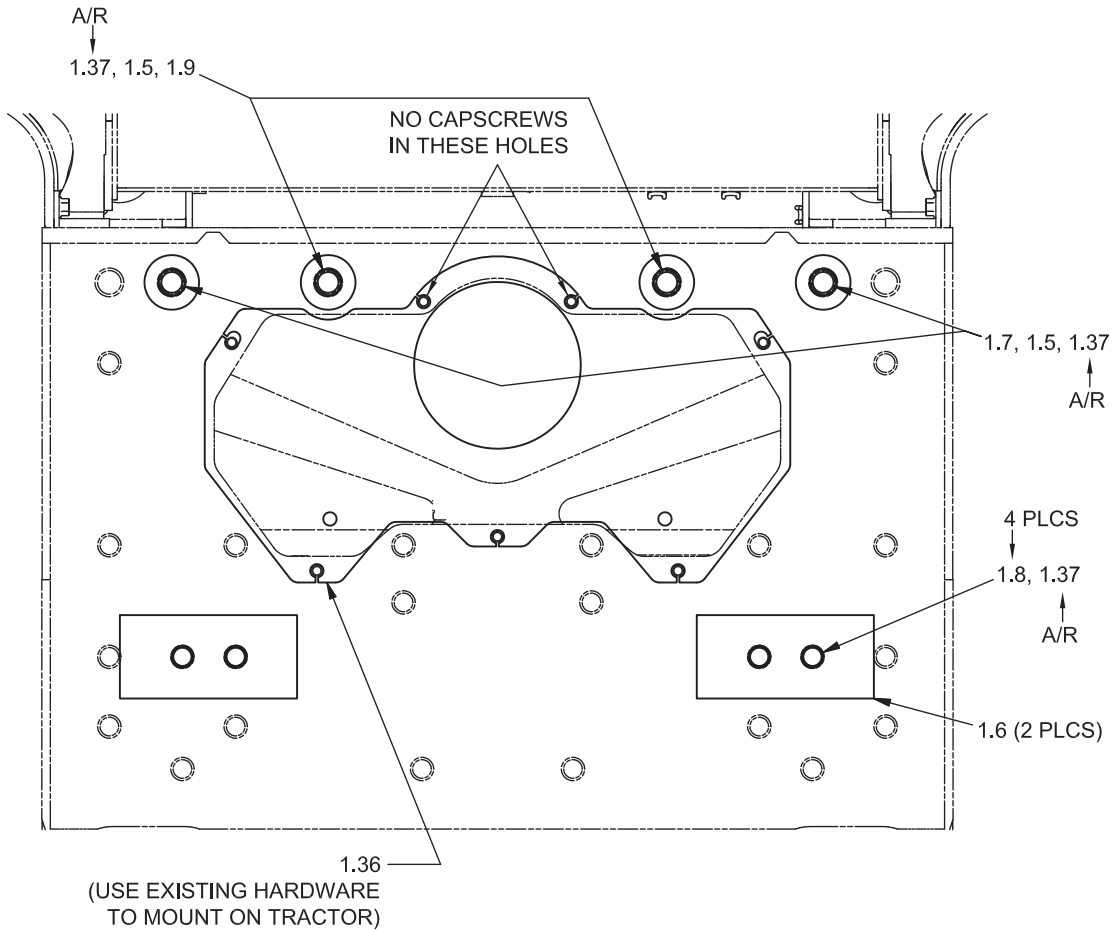
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**Mounting Parts**

John Deere 750J/K (E464) & 850J/K (E462)

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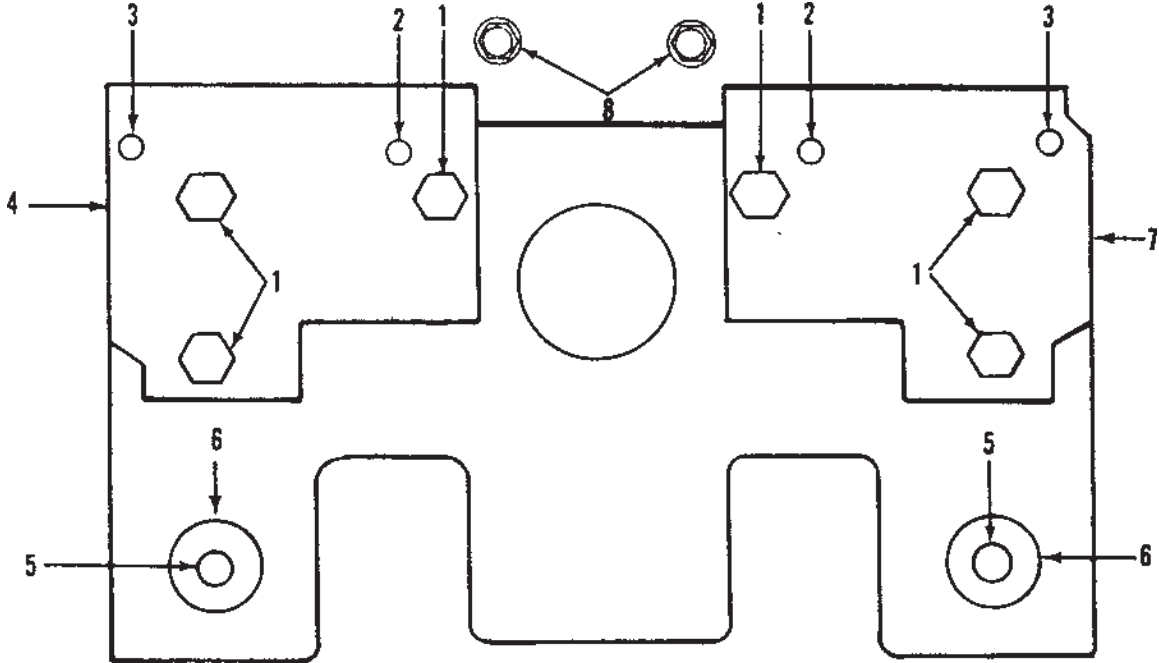
**WINCH MOUNTING PARTS  
REAR VIEW**

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1.1	2303733W	Flange, Tractor End	1	1.19	255768	Capscrew	2
1.2	58916W	Ring, Snap	1	1.20	15135W	Washer	4
1.3	2307311W	Washer	1	1.21	15158W	Washer	2
1.4	292527W	Capscrew	1	1.22	2304350W	Assembly, U-Bolt	1
1.5	2301529W	Washer	4	1.23	225094W	Fitting	1
1.6	2301530W	Pad, Mounting	2	1.24	2313854	Assembly, Hose	1
1.7	*a 2305364W	Stud	2	1.34	129563W	Clamp, Strap	10
1.8	*a 2301697W	Stud	4	1.36	2301850W	Cover, Dust	1
1.9	*a 2301699W	Stud	2	1.37	223453W	Shim .020	24
1.10	55434W	O-Ring	2	1.38	2310958	Wrench	1
1.11	15128W	Washer	4	1.39	2301540W	Capscrew, Drive Shaft	8
1.12	134821W	Nut	2	1.40	221710W	Nut	8
1.13	15240W	Pin	2	2	2305346W	Shaft, PTO Drive	1
1.14	221780W	Washer	4		2302790W	. Kit, Cross & Bearing	2
1.15	*b 221721W	Nut	4				
1.16	*b 221725W	Nut	2				
1.17	2303981W	Driveline Guard, Winch End	1				
1.18	15166W	Washer	2				
				*a		Use 230064W Loctite Kit	
				*b		Use 318702W Thread Lock	

**Mounting Parts**

Komatsu D60LE (K41) and D70LE (K41)

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**Mounting Parts**

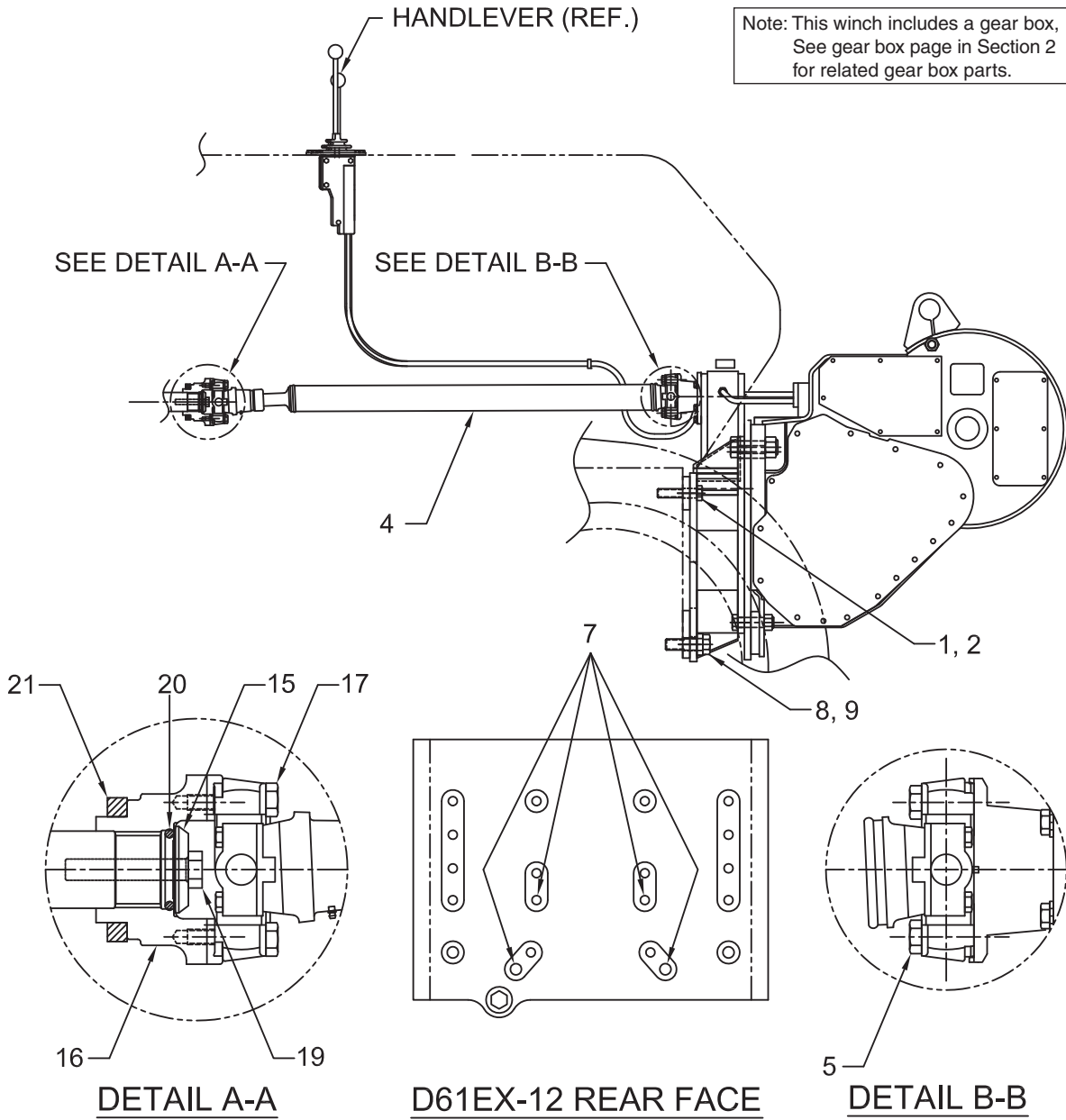
Komatsu D60LE (K41) and D70LE (K41)

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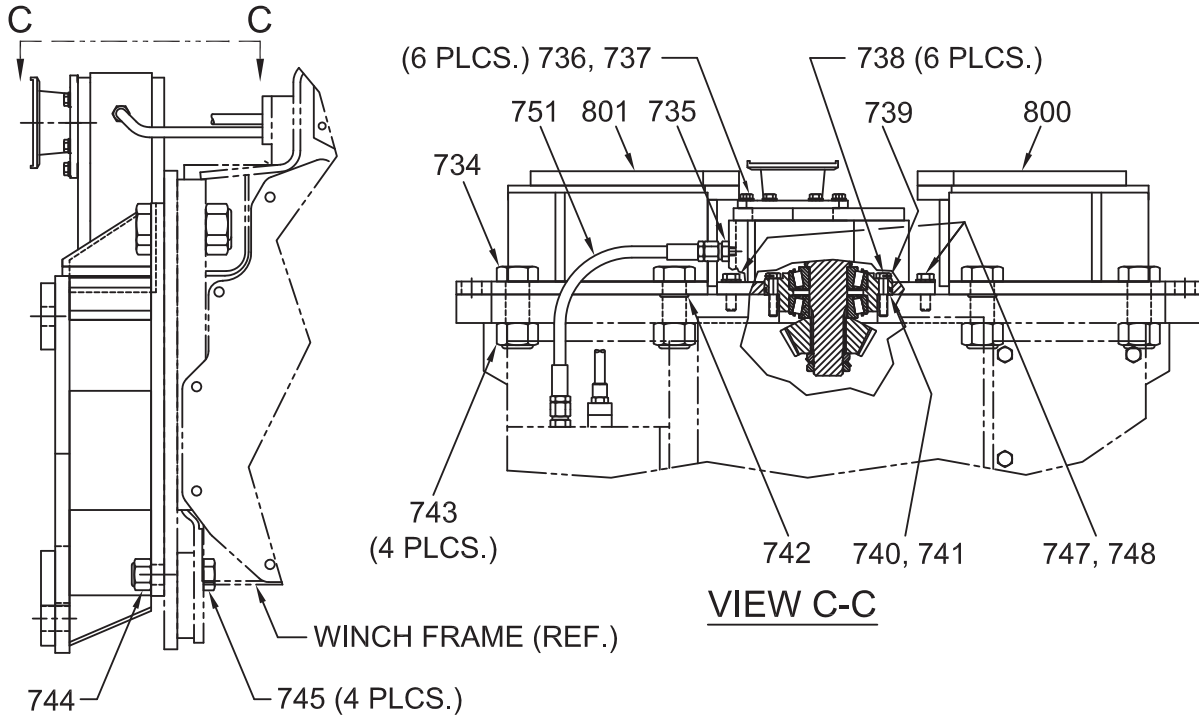
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	225065W	Capscrew	6	4	268489W	Spacer, LH Side	1
1	15166W	Lockwasher	6	5	*a 225068W	Stud	2
2	*a 225071W	Stud	2	5	15168W	Lockwasher	2
2	12440W	Nut, Slotted	2	6	225069W	Spacer	2
2	15259W	Pin, Cotter	2	7	268488W	Spacer, RH Side	1
2	203440	O-Ring	2	8	16820W	Capscrew	2
3	*a 35680W	Stud	2	8	15158W	Lockwasher	2
3	15166W	Lockwasher	2				
3	221721W	Nut	2		*a Use 230064W Loctite Kit		

**Mounting Parts**  
Komatsu D61EX-12 (K47)  
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Note: This winch includes a gear box,  
See gear box page in Section 2  
for related gear box parts.



**Mounting Parts**  
 Komatsu D61EX-12 (K47)  
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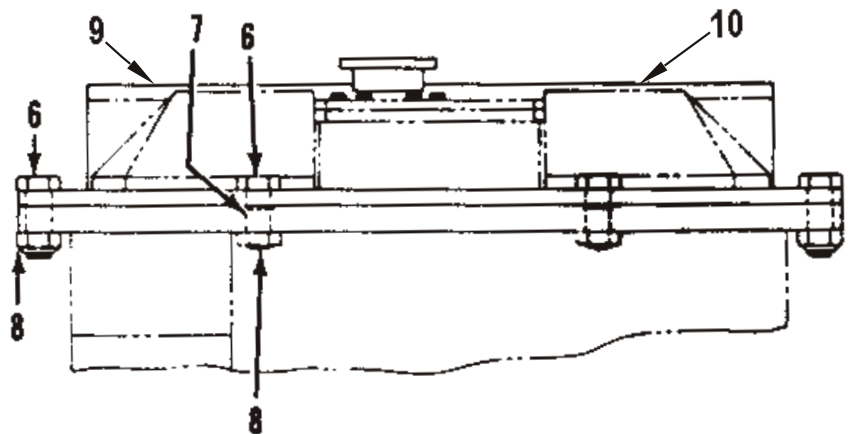
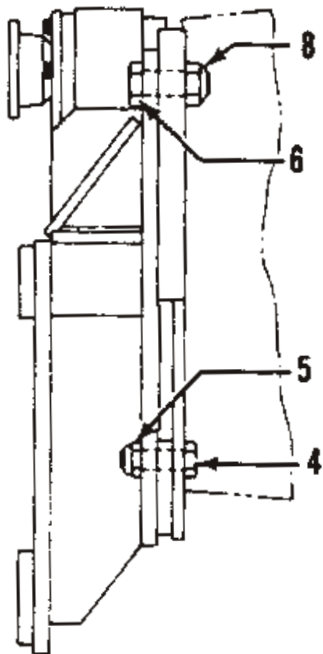
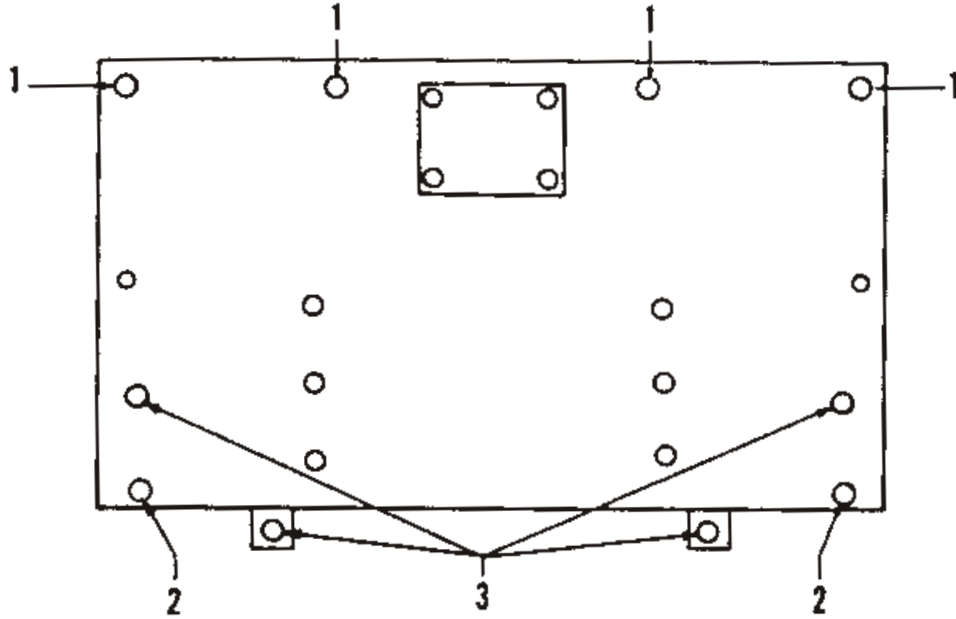


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 274044W	Capscrew	4	738	169671W	Capscrew	6
2	296434W	Washer	4	739	67355W	Lockwire	1
4	2303674W	Shaft, PTO Drive	1	740	134078W	Shim .005	AR
5	*a 221507W	Capscrew	4	741	134079W	Shim .007	AR
8	*a 2303694W	Capscrew	2	742	55434W	O-Ring	2
9	2303692W	Washer	2	743	221725W	Nut	4
15	2300422W	Washer	1	744	221721W	Nut	4
16	*a 2300423W	Yoke, PTO	1	745	221695W	Capscrew	4
17	*a 293632W	Capscrew	4	747	200454W	Capscrew	2
19	*a 2301643W	Capscrew	1	748	15158W	Lockwasher	2
20	2301641W	O-Ring	1	751	210849W	Hose	1
21	2301642W	Seal, Oil	1	800	2313523	Bracket, Mounting - RH Side	1
734	17882W	Capscrew	4	801	2313522	Bracket, Mounting - LH Side	1
736	179443W	Capscrew	6				
735	225094W	Fitting	1				
737	15156W	Washer	6				
				*a	Use 230064W Loctite Kit.		

**Mounting Parts**

Komatsu D65E-7 (K42) and D65S-6 (K43)

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Note: This winch includes a gear box,  
See gear box page in Section 2  
for related gear box parts.

**Mounting Parts**

Komatsu D65E-7 (K42) and D65S-6 (K43)

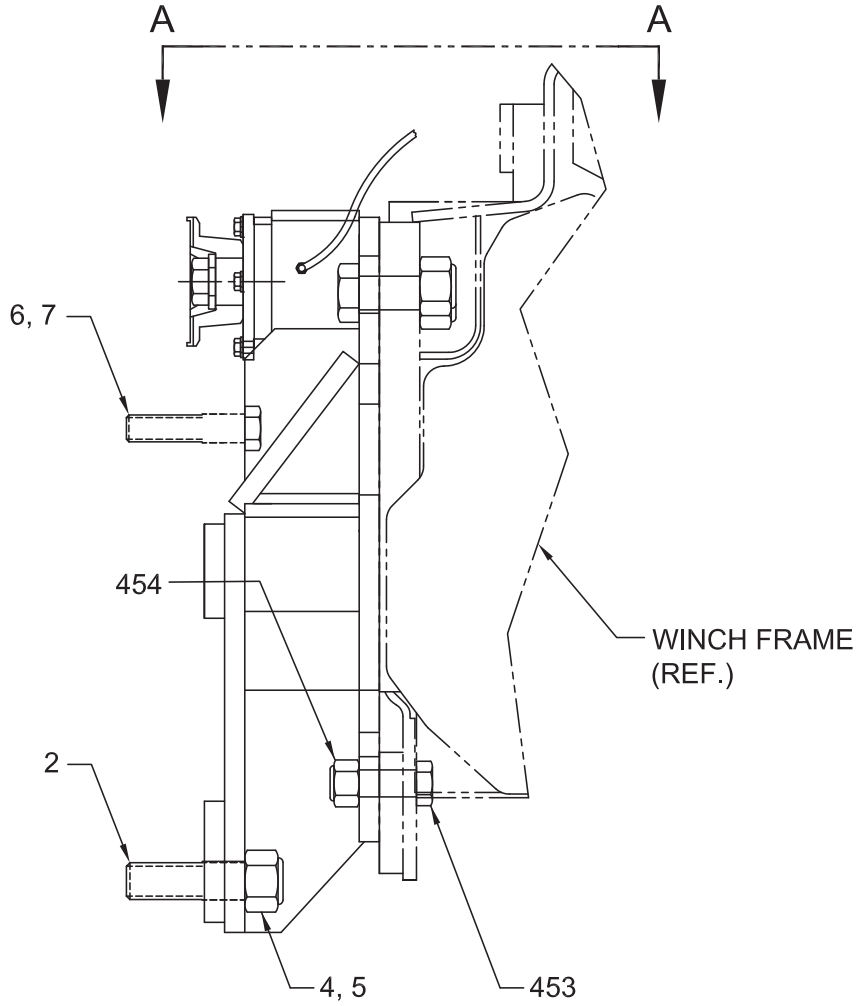
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Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 274044W	Capscrew	4	7	*b 55434W	O-Ring	2
1	296434W	Washer	4	8	*b 221725W	Locknut	4
2	*a 213035W	Stud	2	9	2300562W	Bracket, Mounting - RH Side	1
2	15128W	Washer	2	10	2300563W	Bracket, Mounting - LH Side	1
2	221725W	Locknut	2				
3	18001W	Plug	4		*a	Use 230064W Loctite Kit.	
4	*b 221695W	Capscrew	4		*b	Contained in 250385W Drop Box Assembly.	
5	*b 221721W	Locknut	4			See Section 2 for other items contained in	
6	*b 17882W	Capscrew	4			Drop Box Assembly.	

**Mounting Parts**

Komatsu D65E-8 (K45) and D68-1 (K45)

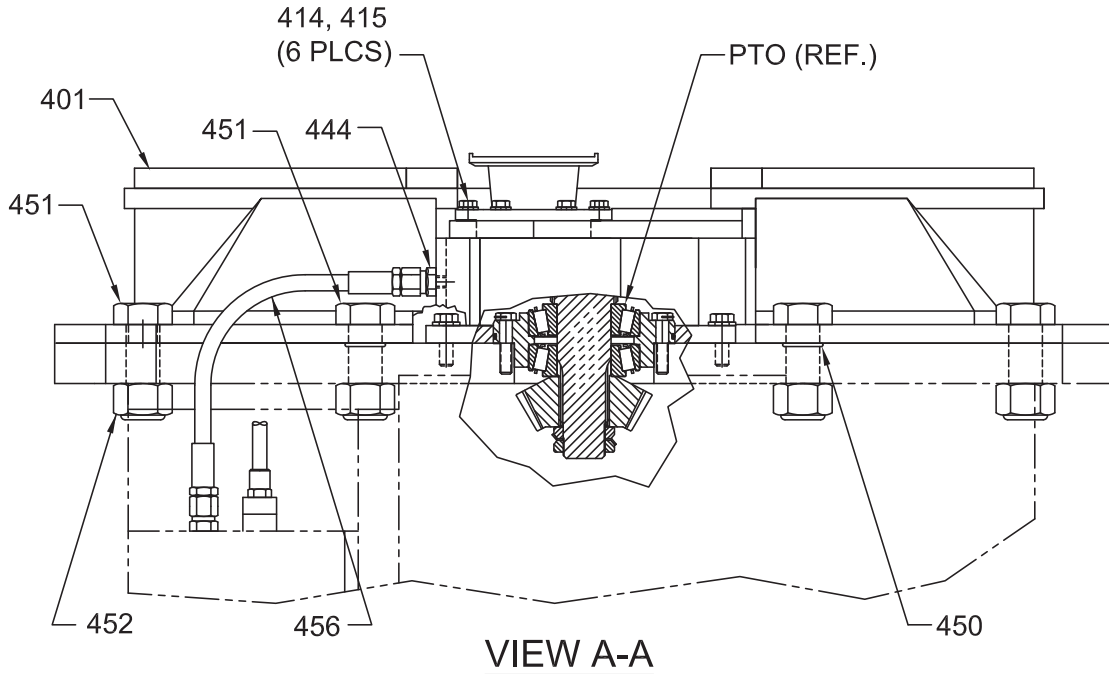
Page 1 of 2



### Mounting Parts

Komatsu D65E-8 (K45) and D68-1 (K45)

Page 2 of 2



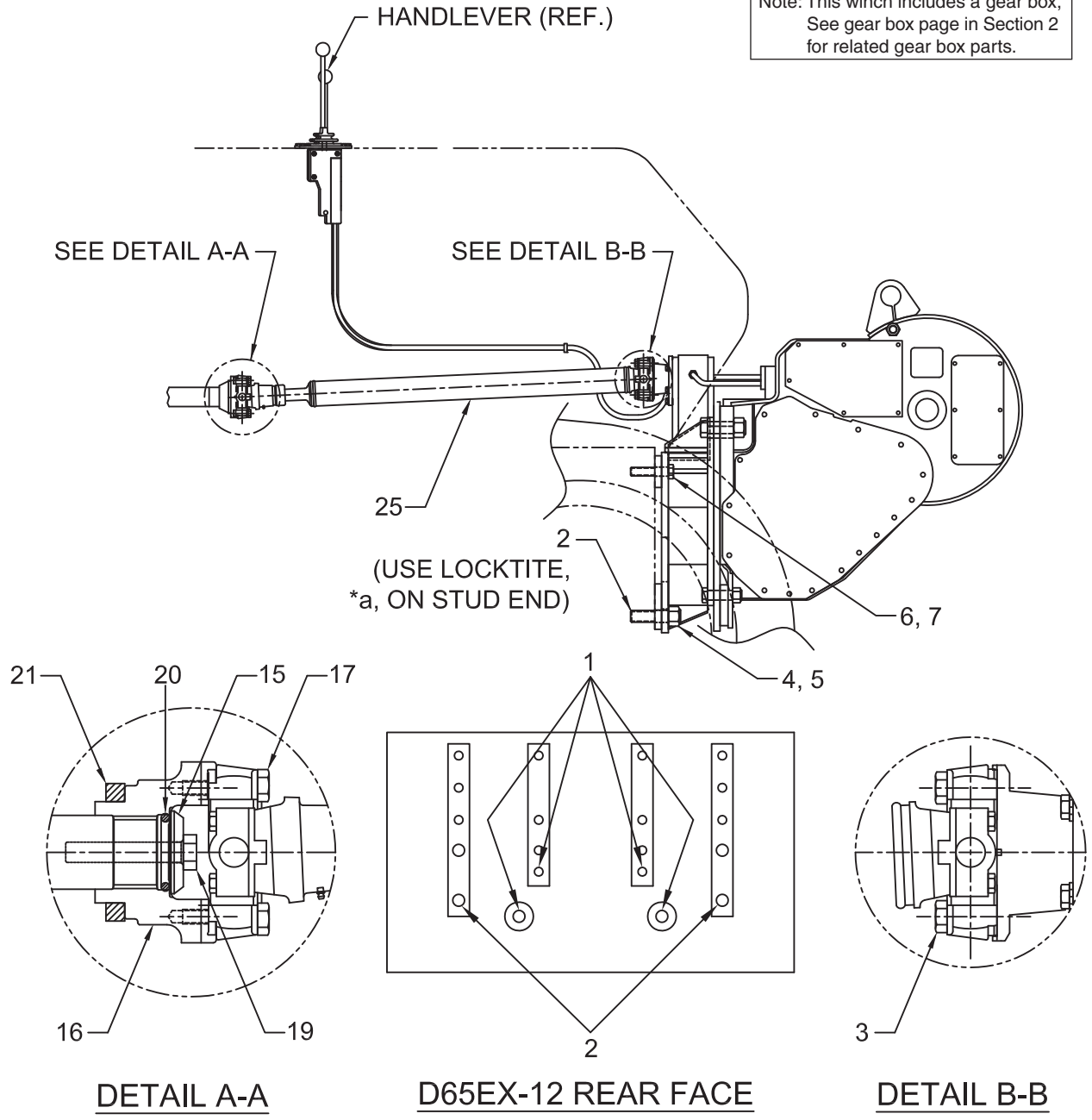
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
2	*b 213035W	Stud	2	450	55434W	O-Ring	2
4	15128W	Washer	2	451	17882W	Capscrew	4
5	*a 221725W	Nut	2	452	221725W	Nut	4
6	*b 274044W	Capscrew	4	453	221695W	Capscrew	4
7	296434W	Washer	4	454	221721W	Nut	4
401	347019W	Adapter	1	456	210849W	Assembly, Hose	1
414	179443W	Capscrew	6				
415	15156W	Washer	6				
444	255094W	Fitting	1				
				*a	Use 245231W Threadlock		
				*b	Use 230064W Locktite Kit		

### Mounting Parts

Komatsu D65EX-12 (K46)

Page 1 of 2

Note: This winch includes a gear box,  
See gear box page in Section 2  
for related gear box parts.



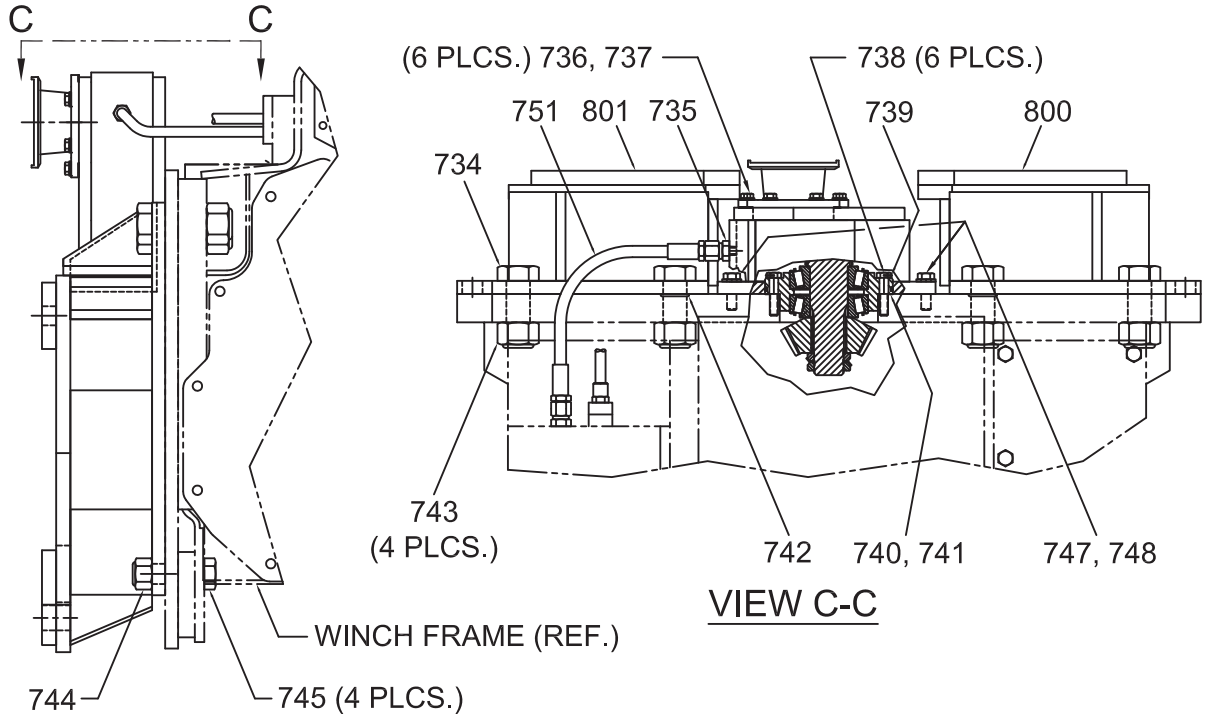
DETAIL A-A

D65EX-12 REAR FACE

DETAIL B-B



**Mounting Parts**  
 Komatsu D65EX-12 (K46)  
 Page 2 of 2

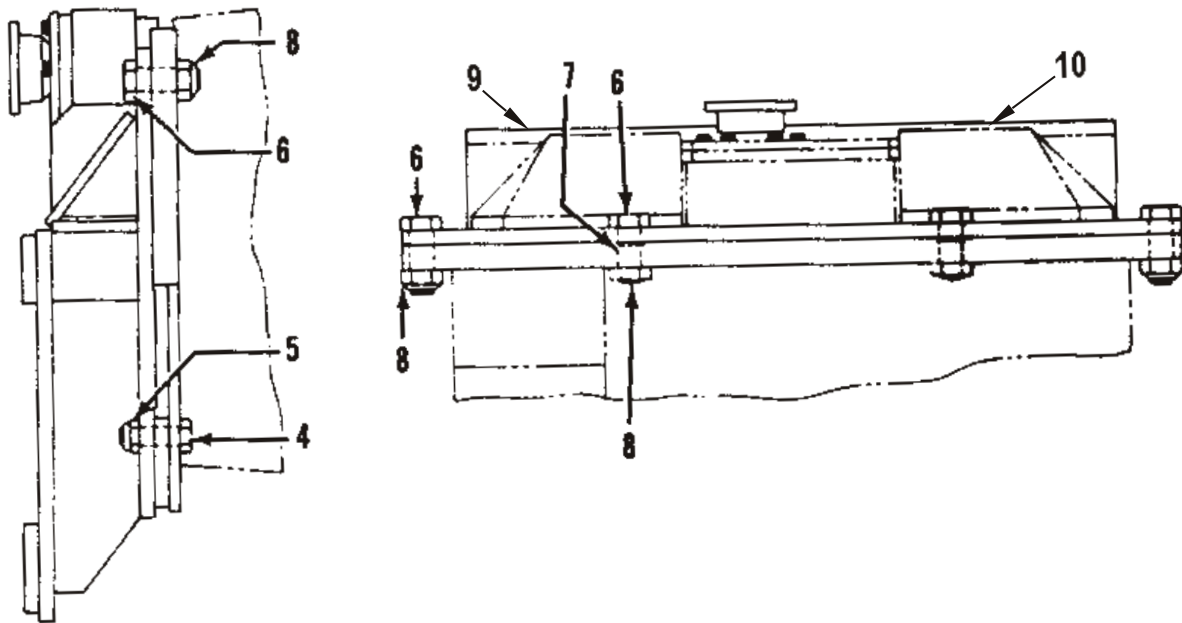
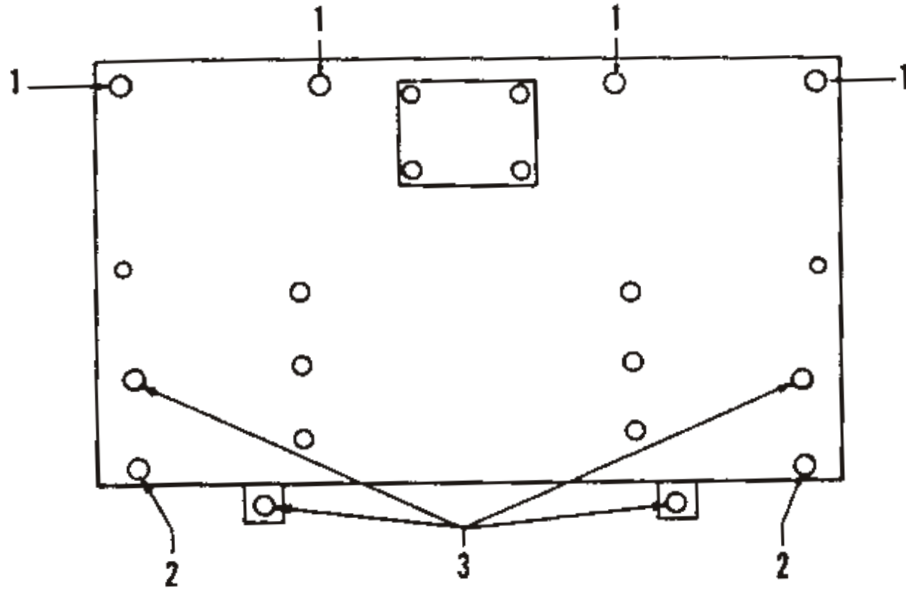


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	18001W	Plug, Cork	4	734	17882W	Capscrew	4
2	*a 213035W	Stud	2	736	179443W	Capscrew	6
3	*a 221507W	Capscrew	4	735	225094W	Fitting	1
4	15128W	Washer	2	737	15156W	Washer	6
5	*b 221725W	Nut	2	738	169671W	Capscrew	6
6	*a 274044W	Capscrew	4	739	67355W	Lockwire	1
7	296434W	Washer	4	740	134078W	Shim .005	AR
15	2300422W	Washer	1	741	134079W	Shim .007	AR
16	2300423W	Yoke, PTO	1	742	55434W	O-Ring	2
17	*a 293632W	Capscrew	4	743	221725W	Nut	4
19	*a 2301643W	Capscrew	1	744	221721W	Nut	4
20	2301641W	O-Ring	1	745	221695W	Capscrew	4
21	2301642W	Seal, Oil	1	747	200454W	Capscrew	2
25	*c 2300304W	Shaft, PTO Drive	1	748	15158W	Lockwasher	2
25	261677W	. Assembly, Spider & Bearing	2	751	210849W	Hose	1
25	53038W	. . Capscrew	4	800	2313523	Bracket, Mounting - RH Side	1
25	261676W	. Yoke, Slip	1	801	2313522	Bracket, Mounting - LH Side	1
25	NSS	. Assembly, Propeller Shaft	1				
25	*d 2300966W	Shaft, PTO Drive	1				
25	2301066W	. Assembly, Spider & Bearing	2				
25	221507W	. . Capscrew	4				
25	NSS	. Yoke, Slip	1				
25	NSS	. Assembly, Propeller Shaft	1				
				*a	Use 230064W Loctite Kit		
				*b	Use 245231 Threadlock		
				*c	Last Used on S/N AW6F-4221		
				*d	First Used on S/N AW6F-4222		

**Mounting Parts**

Komatsu D65PX-12 (K46)

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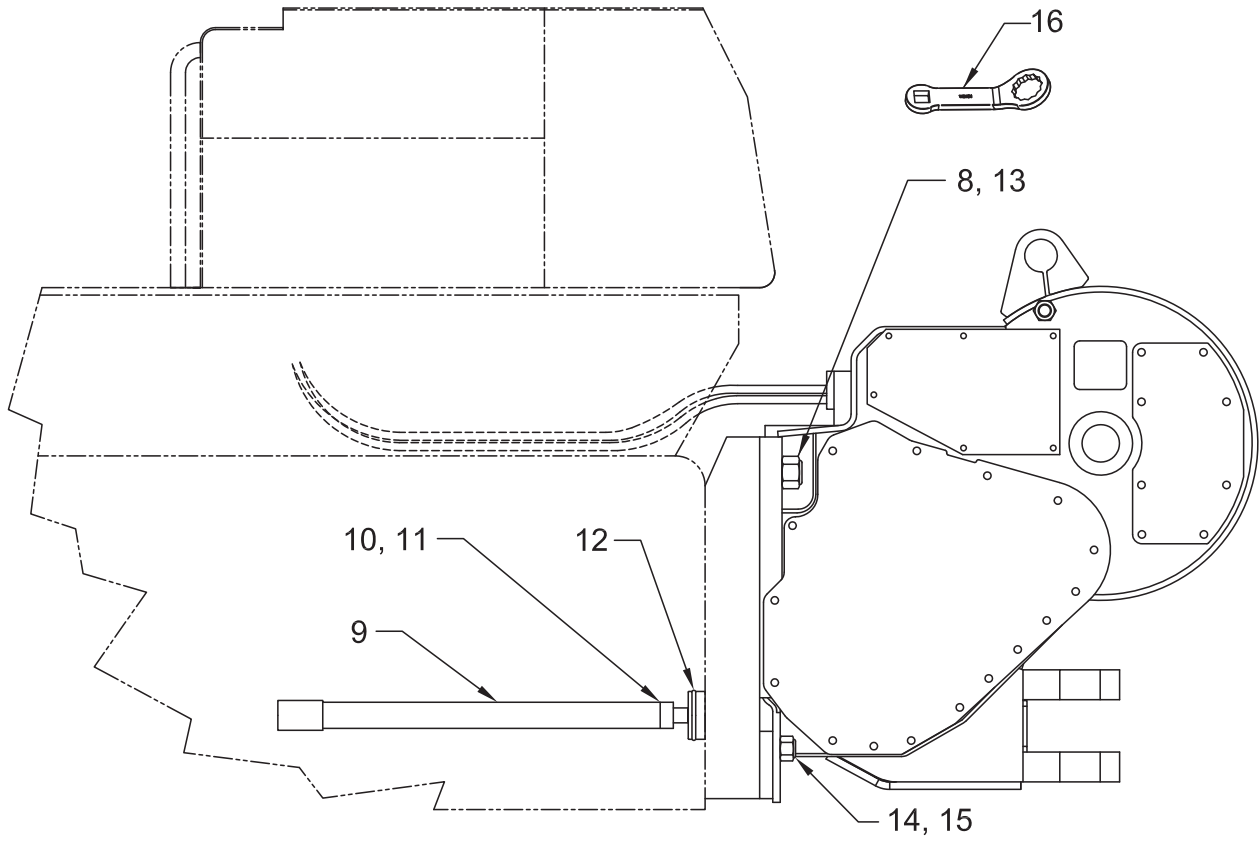
Note: This winch includes a gear box,  
See gear box page in Section 2  
for related gear box parts.

**Mounting Parts**  
 Komatsu D65PX-12 (K46)  
 Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 274044W	Capscrew	4	7	*b 55434W	O-Ring	2
1	296434W	Washer	4	8	*b 221725W	Locknut	4
2	*a 213035W	Stud	2	9	2300562W	Bracket, Mounting - RH Side	1
2	15128W	Washer	2	10	2300563W	Bracket, Mounting - LH Side	1
2	221725W	Locknut	2				
3	18001W	Plug	4		*a	Use 230064W Loctite Kit.	
4	*b 221695W	Capscrew	4		*b	Contained in 250385W Drop Box Assembly.	
5	*b 221721W	Locknut	4			See Section 2 for other items contained in	
6	*b 17882W	Capscrew	4			Drop Box Assembly.	

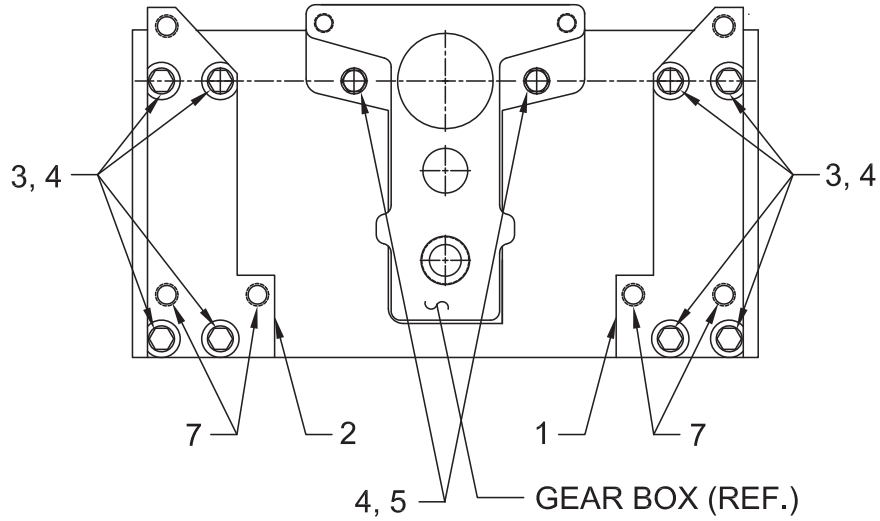
**Mounting Parts**

New Holland DC-180 (A49)  
First Used on S/N AW6F-4408  
Page 1 of 2



**Mounting Parts**

New Holland DC-180 (A49)  
 First Used on S/N AW6F-4408  
 Page 2 of 2

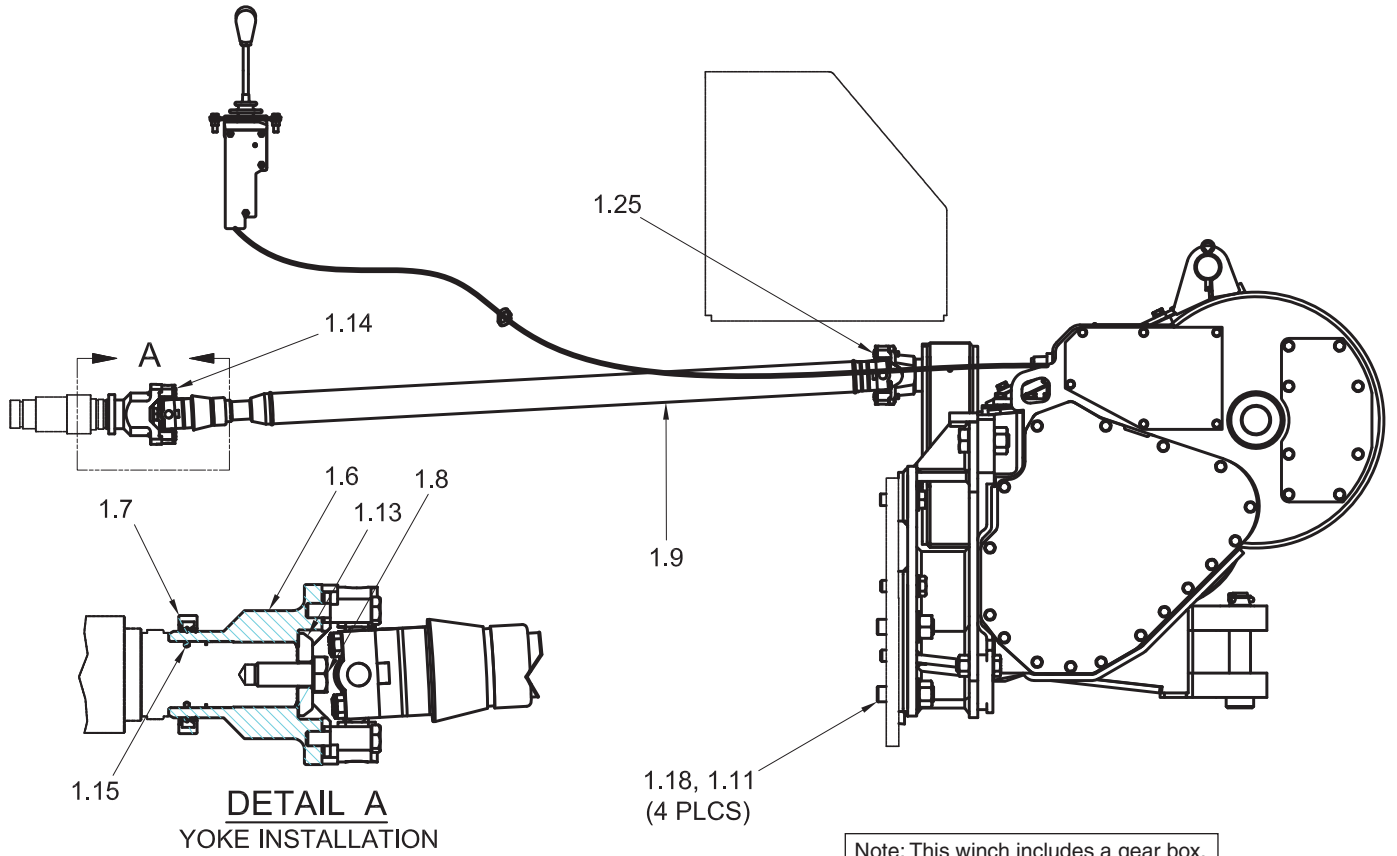


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	338652W	Spacer, RH Side	1	11	250484W	Ring, Snap	1
2	338653W	Spacer, LH Side	1	12	15880W	O-Ring	1
3	226430W	Capscrew	8	13	15128W	Washer	2
4	296434W	Washer	10	14	15110W	Nut	4
5	226429W	Capscrew	2	15	221780W	Washer	4
7	*a 254931W	Stud	4	16	2310958	Wrench	1
8	*a 383917W	Capscrew	2				
9	2304759W	PTO Shaft	1		*a Use 230064W Loctite Kit		
10	19928W	Pin	1				

**Mounting Parts**

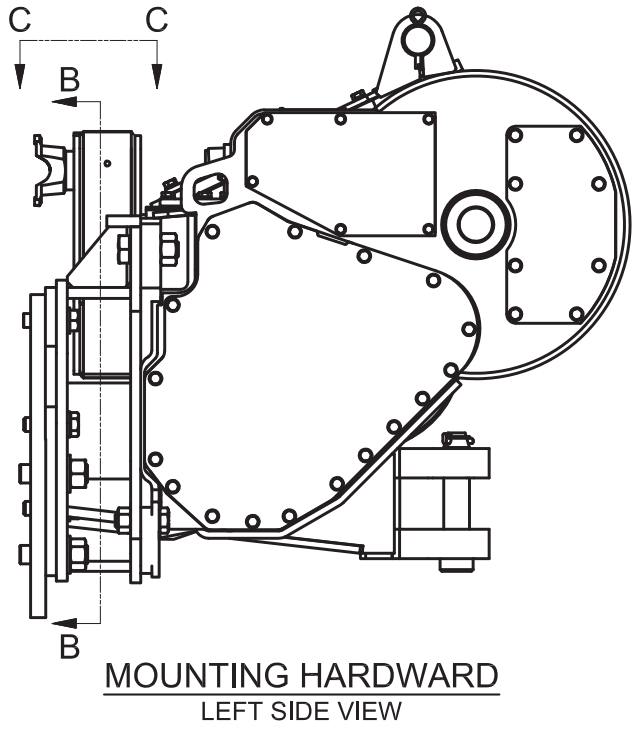
Shantui SD16 (U46)

Page 1 of 2



**DETAIL A**  
YOKE INSTALLATION

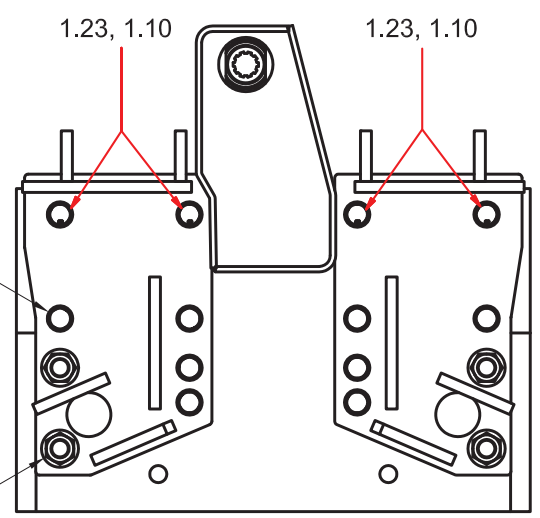
Note: This winch includes a gear box,  
See gear box page in Section 2  
for related gear box parts.



**MOUNTING HARDWARE**  
LEFT SIDE VIEW

(4 PLCS)  
1.10, 1.24

1.22, 1.12  
(4 PLCS)

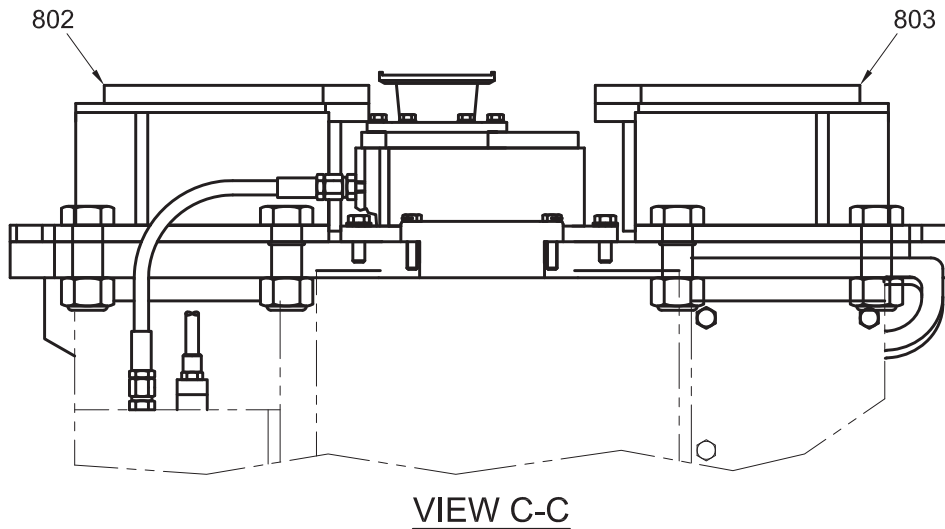


**SECTION B-B**  
MOUNTING HARDWARE

**Mounting Parts**

Shantui SD16 (U46)

Page 2 of 2

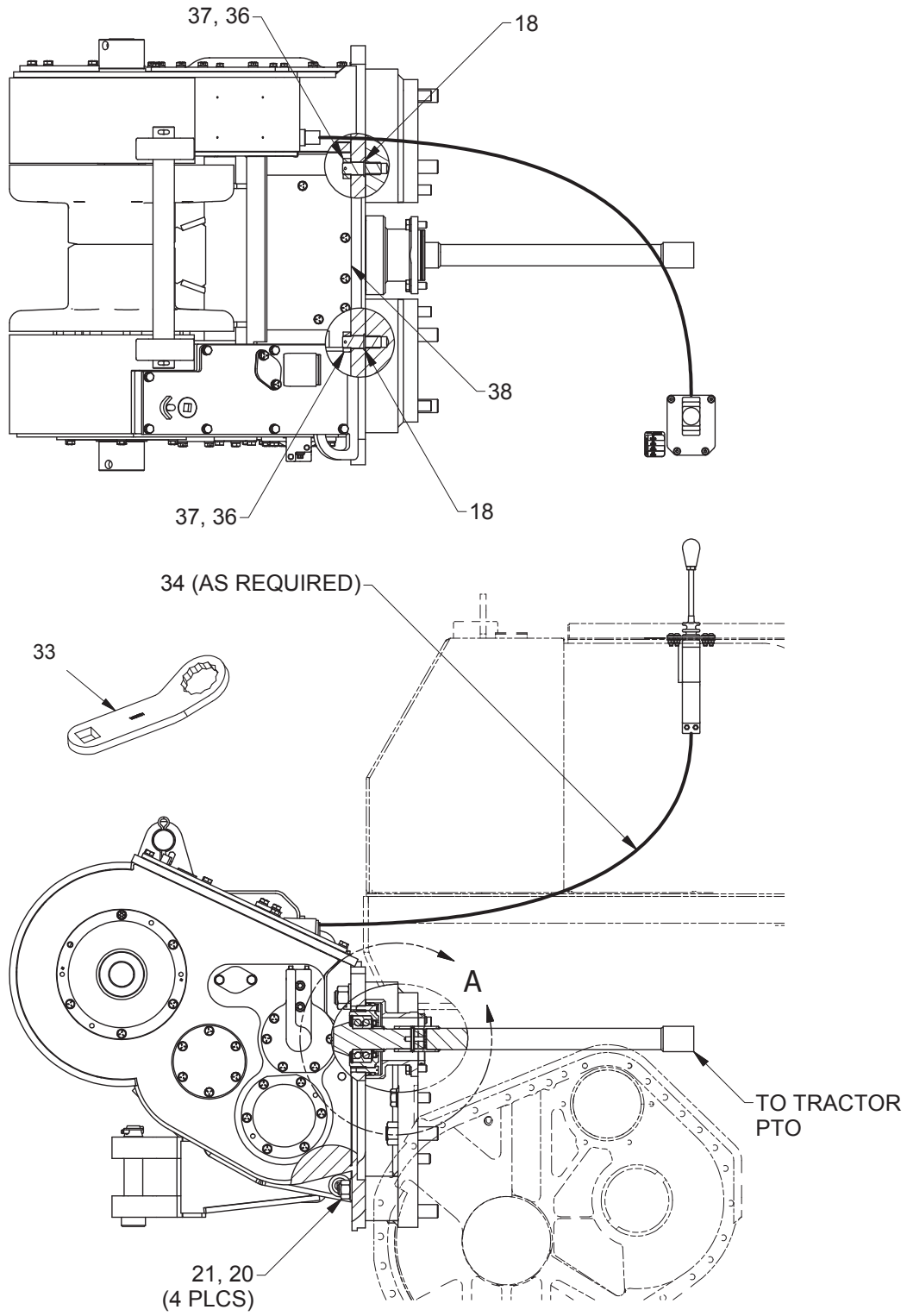


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1.6	2313552	Yoke, 5C	1	1.14	293632W	Capscrew	4
1.7	2313554	Seal, Oil	1	1.15	55287W	O-Ring	1
1.8	Y09C-M1640	Capscrew	1	1.22	15128W	Washer	4
1.9	2300015W	Shaft, PTO Drive	1	1.23	*b 2311901	Capscrew	4
	2301006W	. Assembly, Spider & Bearing	1	1.24	*b 274044W	Capscrew	8
	2301007W	. Shaft, Propeller	1	1.25	221507W	Capscrew	4
	2301008W	. Assembly, Yoke	1	802	2314353	Bracket, Mounting - LH Side	1
1.10	296434W	Washer	12	803	2314354	Bracket, Mounting - RH Side	1
1.11	*a 213035W	Stud	4				
1.12	*b 221725W	Nut	4				
1.13	2313578	Washer	1				
				*a	Use 230064W Loctite Kit		
				*b	Use 318702W Thread Lock		

# Mounting Parts

Zoomlion ZD160 (N46)

Page 1 of 2



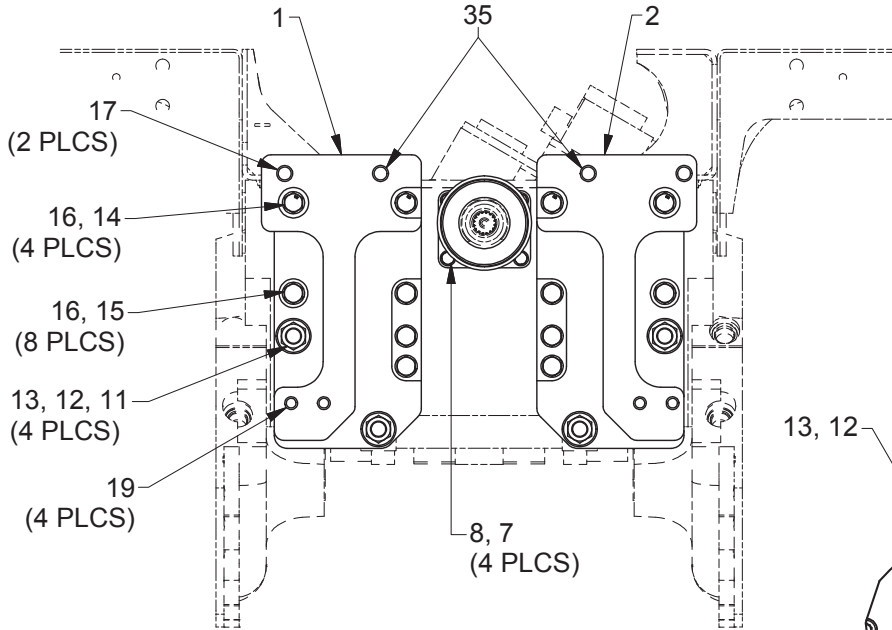
WINCH MOUNTING  
TRACTOR RIGHT SIDE VIEW



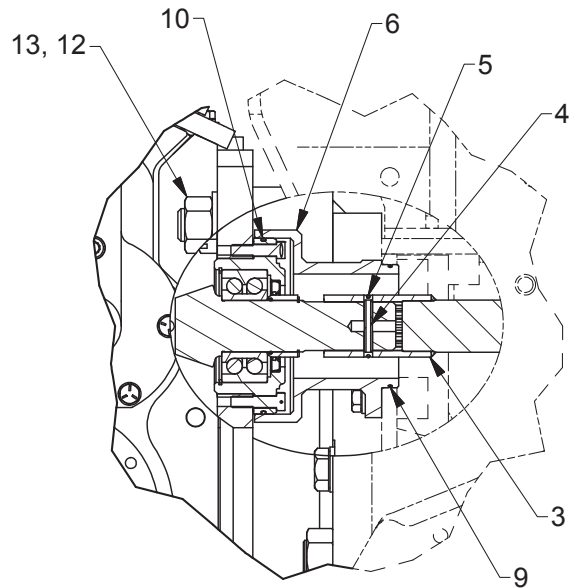
### Mounting Parts

Zoomlion ZD160 (N46)

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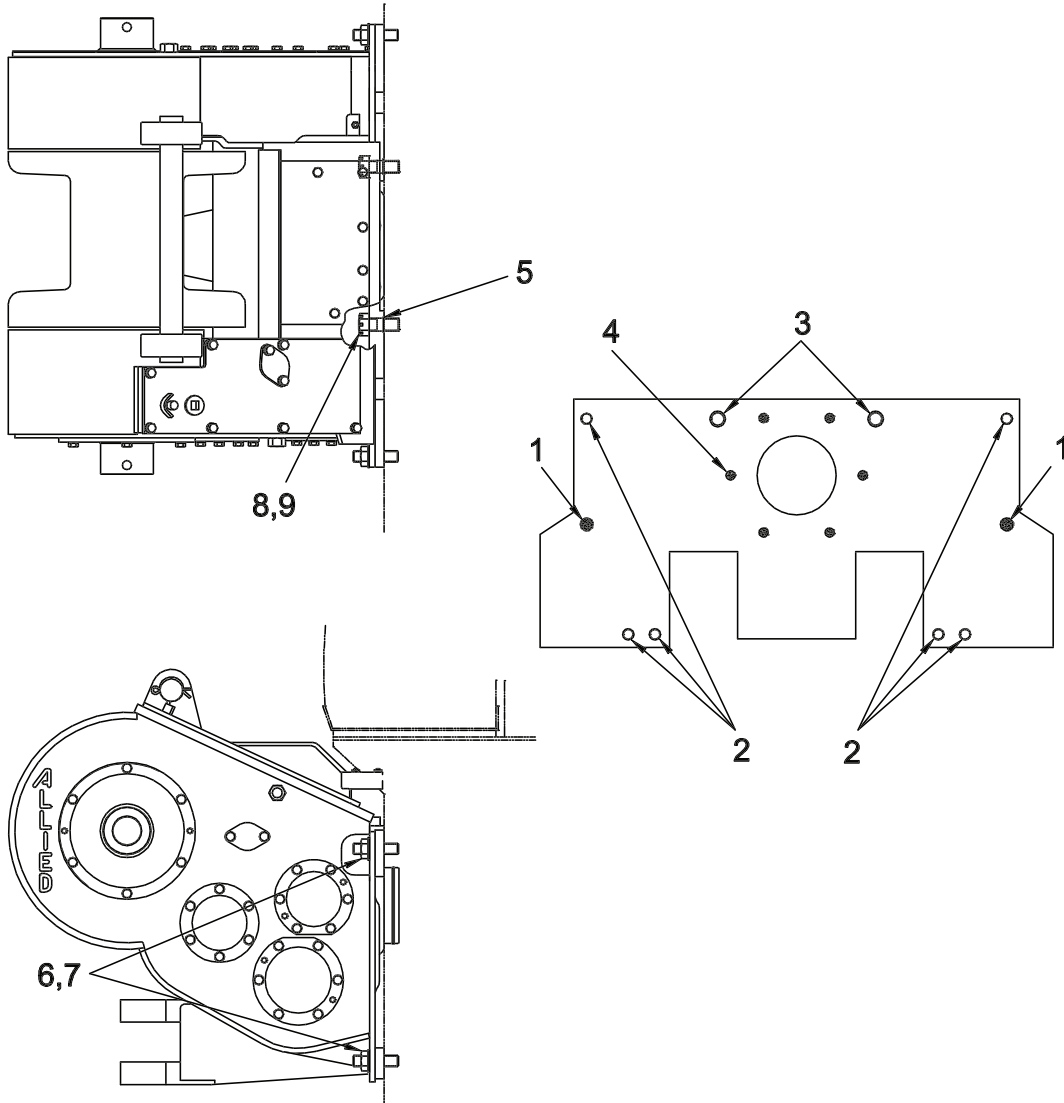
**MOUNTING BRACKET INSTALLATION  
TRACTOR REAR FACE**



**DETAIL A  
DRIVESHAFT INSTALLATION**

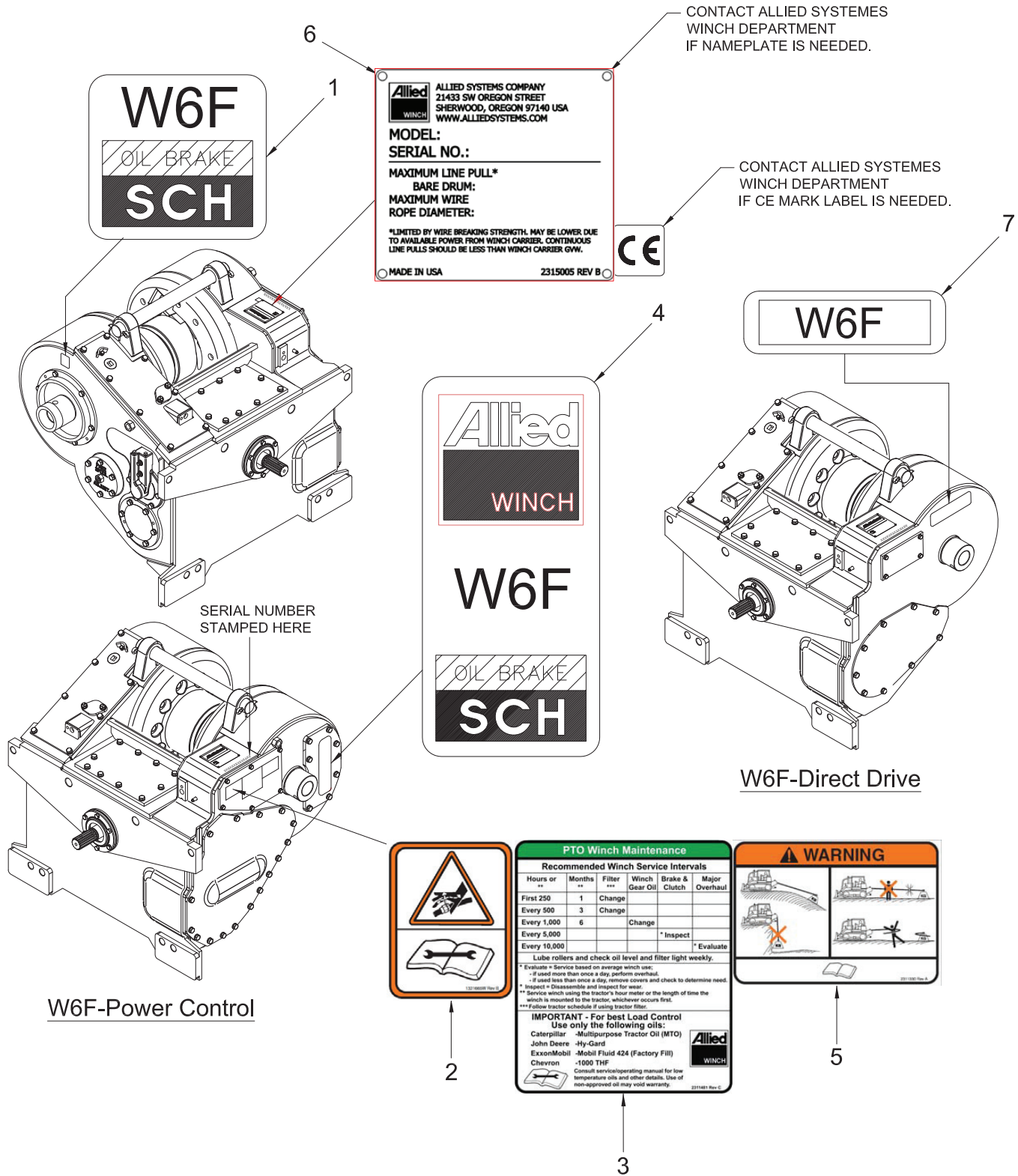
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2315490	Bracket, Mounting - LH Side	1	16	296434W	Washer	12
2	2315491	Bracket, Mounting - RH Side	1	17	*b 253816W	Stud	4
3	2315524	Shaft, PTO Drive	1	18	55434W	O-Ring	2
4	19929W	Pin	1	19	*b 254931W	Stud	4
5	9528W	Ring, Pin Retainer	1	20	*a 221721W	Nut	4
6	2315520	Adapter, PTO Pilot	1	21	221780W	Washer	4
7	241023	Capscrew	4	33	2310958	Wrench, Torque Extension	1
8	296426W	Washer	4	34	129563W	Tie, Cable (Black)	AR
9	Y060600-157	O-Ring	1	35	*b 198929W	Stud	2
10	90937W	O-Ring	1	36	134821w	Nut	2
11	*a 2315673	Stud	4	37	15240W	Pin	2
12	*a 221725W	Nut	6	38	2314004	Gasket	2
13	225851	Washer	6				
14	*a 2315423	Capscrew	4		*a	Use 318702W Thread Lock	
15	*a 274044W	Capscrew	8		*b	Use 230064W Loctite Kit	

**Mounting Parts**  
Xuanhua T150F (X41)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	18005W	Plug, Cork	2	7	127156W	Nut	6
2	*a 162412W	Stud	6	8	134821W	Nut	2
3	*a 253817W	Stud	2	9	15240W	Pin, Cotter	2
4	18004W	Plug, Cork	6				
5	55434W	O-Ring	2				
6	221780W	Washer	6				
				*a		Use 230064W Loctite Kit	

### Nameplate & Decals



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*a 2300006W	Decal, RH Side	1	6	*a 16602W	Screw	4
2	*a 1321665W	Decal, Warning	1	7	*b 253424W	Decal, Model	1
3	*a 2311481	Decal, PTO Winch Maintenance	1				
4	*a 2300511W	Decal, LH Side	1			Used on Power Control Models Only	
5	*a 2311330	Decal, Load & Wire Rope Safty	1			Used on Direct Drive Models Only	

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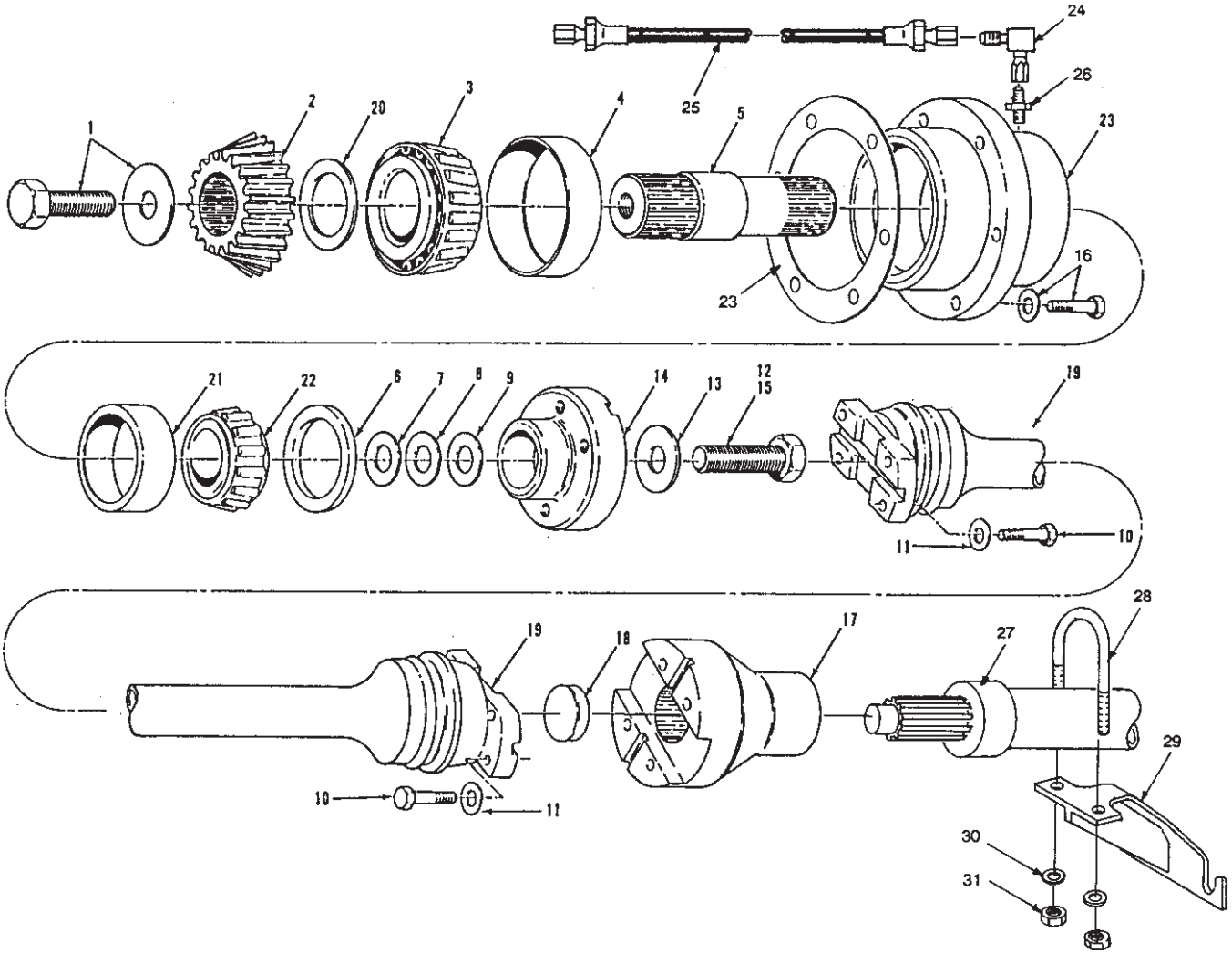
## Gear Train/Shaft

Brake.....	2-82 thru 2-84
Brake Shaft.....	2-68 thru 2-71
Clutch.....	2-85 & 2-88
Clutch Shaft / Bevel Gear.....	2-72 thru 2-75
Drum Shaft.....	2-76
Gear Box.....	2-48 thru 2-67
Intermediate Gear Shaft .....	2-77 thru 2-81
PTO Shaft .....	2-2 thru 2-47
Wire Rope Lock .....	2-89

**PTO Shaft**

Case 1550 (R41)

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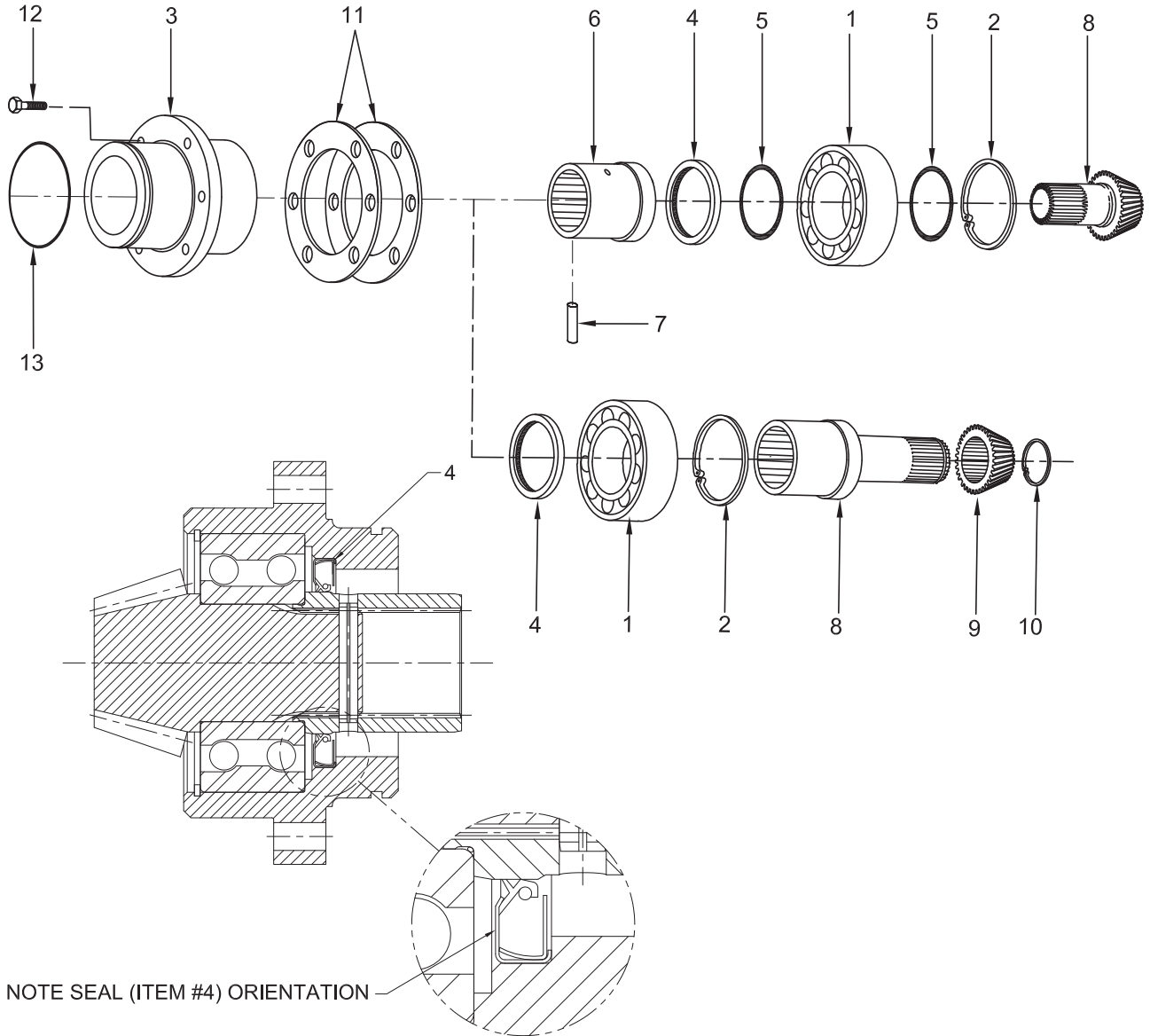
**PTO Shaft**  
Case 1550 (R41)  
Page 2 of 2

Key

A - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)  
B - Gear Ratios: 106.4:1 & 85.2:1 (Gear Codes: 6 & 8)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	18620W	Capscrew	1	--	18	225097W	Cup, Dust	1	1
1	361774W	Washer	1	--	19	1310777W	Shaft, Universal	1	1
2	96020W	Gear, Bevel	1	--	19	2311342	. Spider/Bearing	2	2
3	323350W	Cone, Bearing	1	1	19	221466W	. Capscrew	8	8
4	321899W	Cup, Bearing	1	1	20	358976W	Washer, Thrust	1	1
5	358043W	Shaft, PTO	1	--	21	30189W	Cup, Bearing	1	1
5	358978W	Shaft, PTO	--	1	22	247093W	Cone, Bearing	1	1
5	313022W	Adhesive	AR	AR	23	388601W	Carrier	1	1
6	79389W	Seal, Oil	1	1	23	134078W	Shim .005	AR	AR
7	358045W	Shim .003	AR	AR	23	134079W	Shim .007	AR	AR
8	358046W	Shim .005	AR	AR	24	16987W	Fitting	1	1
9	358047W	Shim .020	AR	AR	25	187800W	Hose	1	1
10	388611W	Capscrew	8	8	26	225094W	Fitting w/ Orifice	1	1
11	388612W	Washer	8	8	27	*a 2300021W	Extension, PTO	1	1
12	226414W	Adhesive	AR	AR	27	*b 1331200W	Extension, PTO	1	1
12	226415W	Adhesive	AR	AR	28	2300016W	U-Bolt	1	1
13	361773W	Washer	1	1	29	2300012W	Bracket	1	1
14	388605W	Yoke	1	1	30	15134W	Washer	2	2
15	18620W	Capscrew	1	1	31	15006W	Nut	2	2
16	131137W	Capscrew	6	6					
16	15157W	Washer	6	6					
17	1310778W	Coupling	1	1					
						*a	Terrell PTO Drive (See Tractor to Determine)		
						*b	Funk PTO Drive (See Tractor to Determine)		

**PTO Shaft**  
Caterpillar 527 (C40)  
Page 1 of 2





**PTO Shaft**  
 Caterpillar 527 (C40)  
 Page 2 of 2

Key

A - Gear Ratios: 106.4:1, 85.2:1 & 55.6:1 (Gear Codes: 6, 8 & 9)

B - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

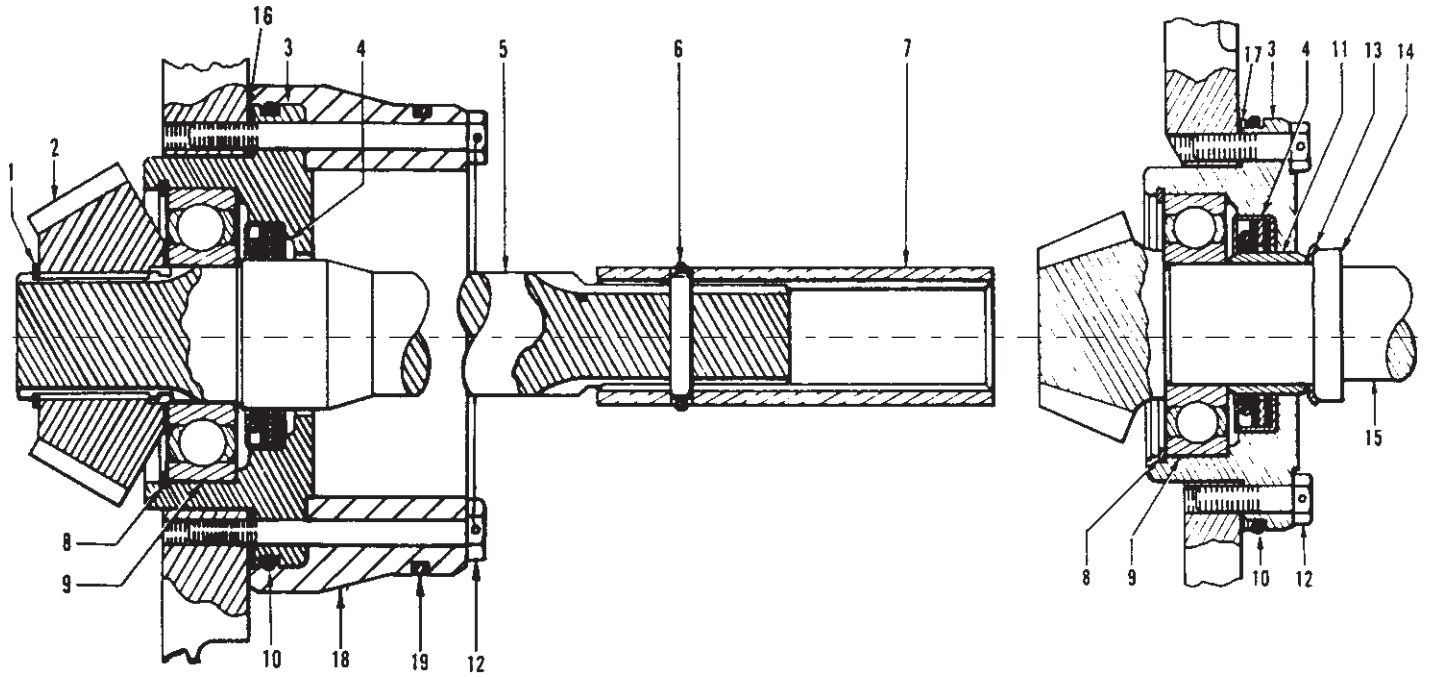
Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	45310W	Bearing	1	1	10	12916W	Ring, Snap	--	1
2	35573W	Ring, Snap	1	1	11	*a 134078W	Shim .005	AR	AR
3	*a 230222W	Carrier, Bearing	1	1	11	*a 134079W	Shim .007	AR	AR
4	79389W	Seal, Oil	1	1	12	169671W	Capscrew	6	6
5	118649W	O-Ring	2	--	12	67355W	Lockwire	1	1
6	*a, *c 2302641W	Coupling	1	--	13	15887W	O-Ring	1	1
6	*a, *d 2314011	Coupling	1	--					
7	19929W	Pin	1	--	*a	Use 358674W Sealant			
8	2302642W	Shaft, PTO	1	--	*b	Requires 96020W (Item 9)			
8	*b 2302223W	Shaft, PTO	--	1	*c	Last Used on S/N AW6F-5141			
9	96020W	Gear, Pinion - 23T	--	1	*d	First Used on S/N AW6F-5142			

### PTO Shaft

Caterpillar D5 (C41, C42), D6 (C43, C44) and 977L (C46)

Last Used on S/N W6FP-3699

Page 1 of 2



**PTO Shaft**

Caterpillar D5 (C41, C42), D6 (C43, C44) and 977L (C46)

Last Used on S/N W6FP-3699

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Key

A - 45.1:1 and 56.4:1 Gear Ratios

B - 65.9:1 and 81.0:1 Gear Ratios

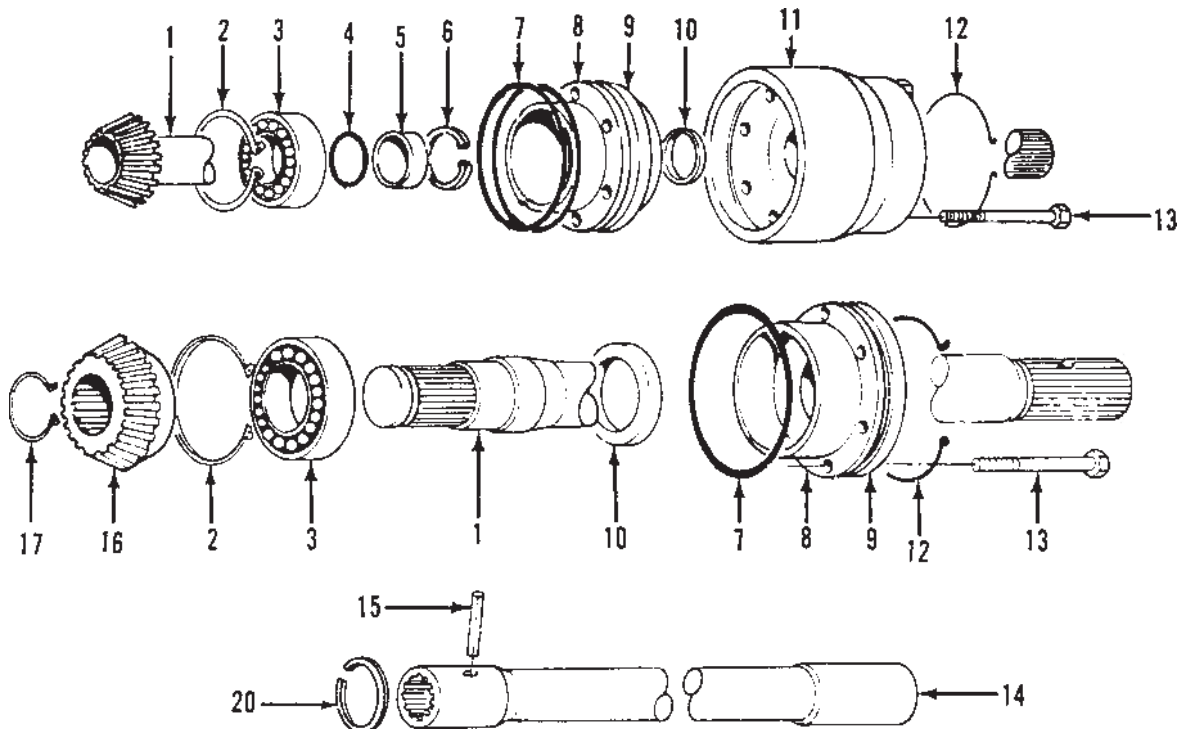
Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	12916W	Ring, Snap	1	--	12	*a, *b 169671W	Capscrew	6	6
2	96020W	Gear, Bevel	1	--	13	6036W	Lockwasher	--	1
3	98598W	Carrier, Bearing	1	1	14	6037W	Nut	--	1
4	79389W	Seal, Oil	1	1	15	*a, *f 155494W	Shaft, PTO	--	1
5	*a, *f 155491W	Shaft, PTO	1	--	15	*a, *e 155493W	Shaft, PTO	--	1
5	*a, *e 196381W	Shaft, PTO	1	--	15	*c, *b, *d 89065W	Shaft, PTO	--	1
5	*b, *c, *d 196380W	Shaft, PTO	1	--	16	134078W	Shim .005	AR	AR
6	*b, *c, *d 9563W	Pin	1	1	17	134079W	Shim .007	AR	AR
6	*b, *c, *d 9554W	Ring, Lock	1	1	18	246382W	Spacer	1	1
7	*b 97553W	Coupler	1	1	18	*c, *d 274453W	Spacer	1	1
7	*a 155492W	Coupler	1	--	19	*c, *d 90937W	O-Ring	1	1
7	*c, *d 274455W	Coupler	1	1					
8	35573W	Ring, Snap	1	1		*a	Caterpillar D5 (C41, C42)		
9	124684W	Bearing, Ball	1	1		*b	Caterpillar D6 (C43, C44)		
10	90937W	O-Ring	1	1		*c	Caterpillar 977L (C46)		
11	96027W	Spacer	--	1		*d	Caterpillar 977L with ROPS (C46)		
12	*c, *d 274452W	Capscrew	6	6		*e	Direct Drive		
12	67355W	Wire	1	1		*f	Power Control		

### PTO Shaft

Caterpillar D5 (C41, C42), D6 (C43, C44) and 977L (C46)  
 Used on S/N W6FP-3700 Thru S/N W6F-7134  
 Page 1 of 2

Tractor Model	Shaft-PTO (Item 1)				Coupler (Item 14)
	1 **	3 **	4 **	6 **	
	45.1:1 ***	64.9:1 ***	81.0:1 ***	106.0:1 ***	
Caterpillar D5 (C41, C42)	285278W *e	285277W	285277W	313884W	*f,*g 285683W *h 285686W
Caterpillar D6 (C43, C44)	285278W *e	285277W	285277W	313884W	285684W
Caterpillar 977L (C46)	285278W *e	285277W	285277W	313884W	285685W

\*\* Gear Code  
 \*\*\* Gear Ratio  
 \*f Direct Drive Winch  
 \*g Power Control Winch on Direct Drive Tractor  
 \*h Power Control Winch on Powershift Tractor



**PTO Shaft**

Caterpillar D5 (C41, C42), D6 (C43, C44) and 977L (C46)  
 Used on S/N W6FP-3700 Thru S/N W6F-7134  
 Page 2 of 2

Key

A - 45.1:1 Gear Ratio

B - 64.9:1, 81.0:1 and 106.0:1 Gear Ratios

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty		
			A	B				A	B	
1	*a	-----	1	1	13	*c	274452W	Capscrew	6	6
2		35573W	1	1	13	*b, *d	169671W	Capscrew	6	6
3		45310W	1	1	14	*a	-----	Coupler	1	1
4		133898W	--	1	15		19929W	Pin	1	1
5		96524W	--	1	16		96020W	Gear, Bevel	1	--
6		12944W	--	1	17		12916W	Ring, Snap	1	--
7		90937W	2	2	20		9528W	Ring, Lock	1	1
8		134078W	AR	AR		*a	See Chart			
8		134079W	AR	AR		*b	Caterpillar 977L-11K (C46)			
9		321401W	1	1		*c	Caterpillar 977L-14X (C47)			
10		79389W	1	1		*d	Caterpillar D5 (C41, C42), D6 (C43, C44)			
11	*c	274453W	1	1		*e	Requires 96020W (Item 16)			
12		67355W	AR	AR						

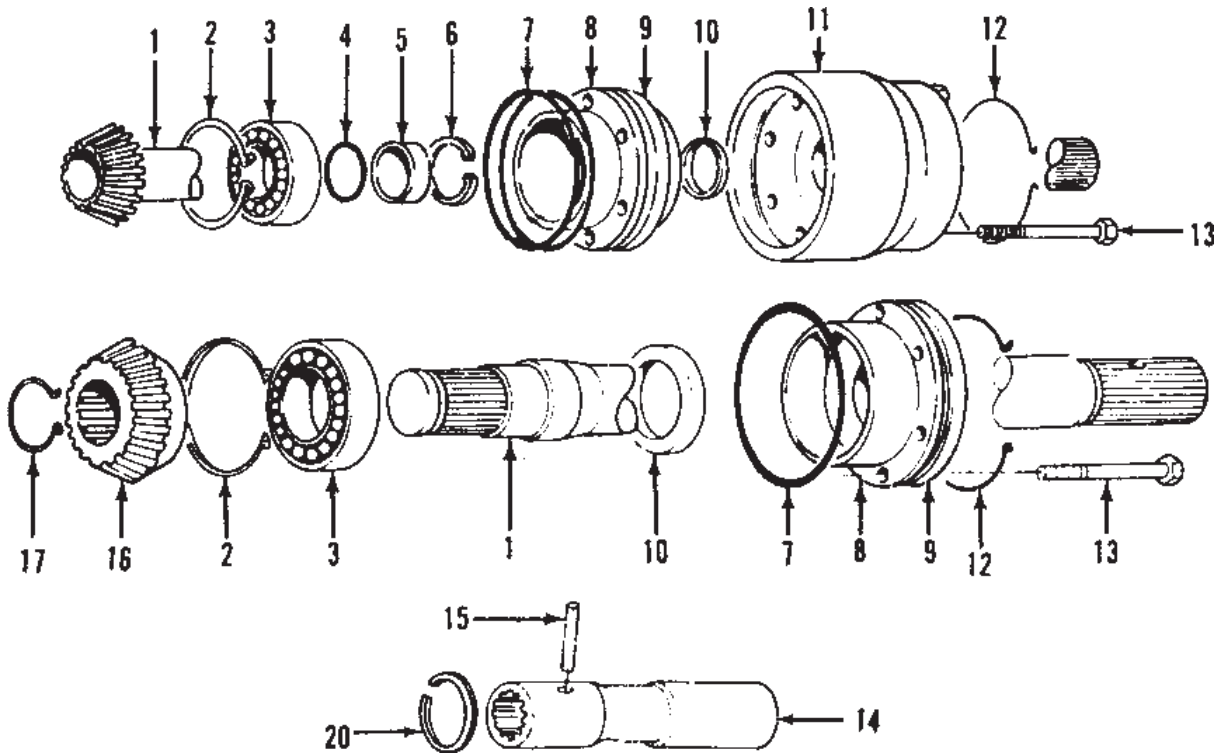
**PTO Shaft**

Caterpillar D5B (C41, C42), D6D (C43, C44), D6H (C480, C481) and 977L (C45, C46)  
Used on S/N W6F-7134 Thru S/N W6F-7808

Page 1 of 2

Tractor Model	Shaft-PTO (Item 1)				Coupler (Item 14)
	1 **	2 **	6 **	8 **	
	45.1:1 ***	56.4:1 ***	106.0:1 ***	85.0:1 ***	
Caterpillar D5B (C41, C42)	381190W *g	381190W *g	313884W	313884W	*h, *j 285683W *k 285686W
Caterpillar D6D (C43, C44)	381190W *g	381190W *g	313884W	313884W	285684W
Caterpillar D6H (C480, C481)	381190W *g	381190W *g	313884W	313884W	-----
Caterpillar 977L (C45, C46)	381190W *g	381190W *g	313884W	313884W	285685W

\*\* Gear Code  
\*\*\* Gear Ratio  
\*h Direct Drive Winch  
\*j Power Control Winch on Direct Drive Tractor  
\*k Power Control Winch on Powershift Tractor



**PTO Shaft**

Caterpillar D5B (C41, C42), D6D (C43, C44), D6H (C480, C481) and 977L (C45, C46)  
Used on S/N W6F-7134 Thru S/N W6F-7808

Key

A - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

B - Gear Ratios: 106.4:1, 85.2:1 & 55.6:1  
(Gear Codes: 6, 8 & 9)

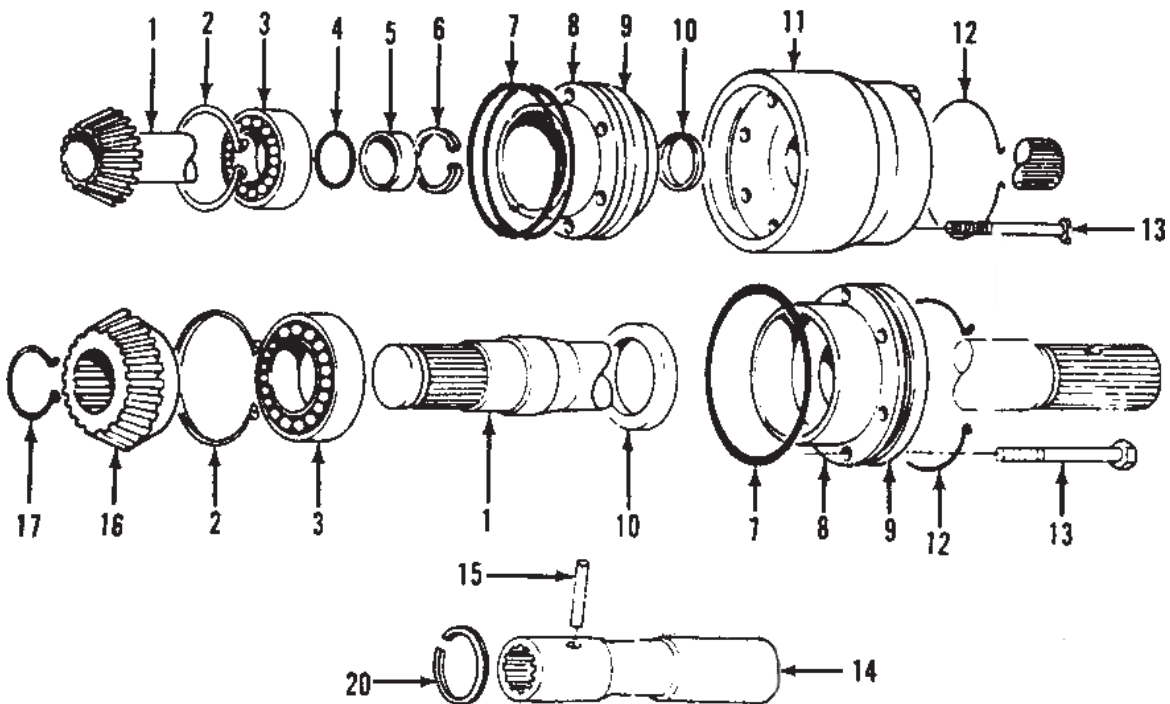
Item	Part No.	Description	Qty		Item	Part No.	Description	Qty		
			A	B				A	B	
1	*a	-----	1	1	13	*d	169671W	Capscrew	5	5
2		35573W	1	1	13	*d	388655W	Capscrew, Altered	1	1
3		45310W	1	1	14	*a	-----	Coupler	1	1
4		133898W	--	1	15	*f	19929W	Pin	1	1
5		96524W	--	1	16		96020W	Gear, Bevel	1	--
6		12944W	--	1	17		12916W	Ring, Snap	1	--
7	*f	90937W	2	2	20	*f	9528W	Ring, Lock	1	1
7	*c	90937W	1	1						
8		134078W	AR	AR		*a	See Chart			
8		134079W	AR	AR		*b	Caterpillar D5B (C41, C42), D6D (C43, C44)			
9		321401W	1	1		*c	Caterpillar D6H (C480, C481)			
10		79389W	1	1		*d	Caterpillar 977L-11K (C45, C46)			
11	*e	274453W	1	1		*e	Caterpillar 977L-14X (C45, C46)			
12		67355W	AR	AR		*f	All Except Caterpillar D6H (C480, C481)			
13	*e	274452W	6	6		*g	Requires 96020W (Item 16)			
13	*d, *b	169671W	6	6						

### PTO Shaft

Caterpillar D5B (C41, C42) D6D (C43, C44), D6G2 (C82),  
 D6H (C480, C481), D6R (C50, C71) and 977L (C46)  
 First Used on S/N W6F-7809 and Up, and on S/N AW6F-1001  
 Page 1 of 2

Tractor Model	Shaft-PTO (Item 1)					Coupler (Item 14)
	1 **	2 **	6 **	8 **	9 **	
	45.1:1***	56.4:1 ***	106.0:1 ***	85.0:1 ***	55.6:1 ***	
Caterpillar D5B (C41, C42)	381190W *g	381190W *g	313884W	313884W	313884W	*j, *k 285683W *m 285686W
Caterpillar D6D (C43, C44)	381190W *g	381190W *g	313884W	313884W	313884W	285684W
Caterpillar D6G2 (C82)	381190W *g	381190W *g	313884W	313884W	313884W	Reference page 1-19 thru 1-21
Caterpillar D6H (C480, C481)	381190W *g	381190W *g	313884W	313884W	313884W	Reference page 2-28, 2-29
Caterpillar D6R (C50, C71)	381190W *g	381190W *g	313884W	313884W	313884W	Reference page 2-28, 2-29
Caterpillar 977L (C46)	381190W *g	381190W *g	313884W	313884W	313884W	285685W

\*\* Gear Code  
 \*\*\* Gear Ratio  
 \*j Direct Drive Winch  
 \*k Power Control Winch on Direct Drive Tractor  
 \*m Power Control Winch on Powershift Tractor





**PTO Shaft**

Caterpillar D5B (C41, C42) D6D (C43, C44), D6G2 (C82),  
 D6H (C480, C481), D6R (C50, C71) and 977L (C46)  
 First Used on S/N W6F-7809 and Up, and on S/N AW6F-1001  
 Page 2 of 2

Key

A - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

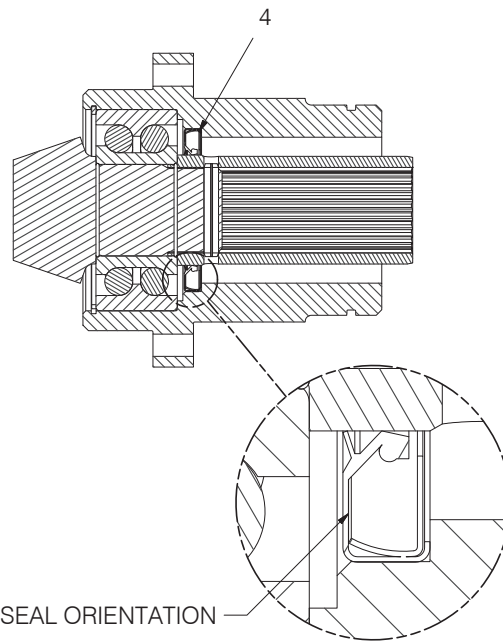
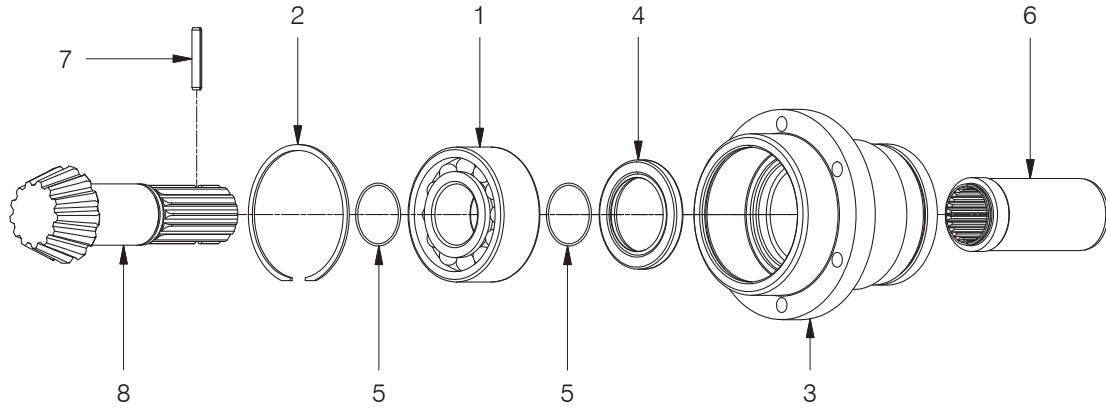
B - Gear Ratios: 106.4:1, 85.2:1 & 55.6:1  
 (Gear Codes: 6, 8 & 9)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	*a	-----	1	1	13	*c	169671W	5	5
2		35573W	1	1	13	*c	388655W	1	1
3		45310W	1	1	14	*a	-----	1	1
4		133898W	--	1	15		19929W	1	1
5		96524W	--	1	16		96020W	1	--
6		12944W	--	1	17		12916W	1	--
7	*f	90937W	2	2	20	*f	9528W	1	1
7	*c	90937W	1	1					
8		134078W	AR	AR		*a	See Chart		
8		134079W	AR	AR		*b	Caterpillar D5B (C41, C42), D6D (C43, C44)		
9		321401W	1	1		*c	Caterpillar D6H (C480, C481), D6R (C50, C71)		
10		79389W	1	1		*d	Caterpillar 977L-11K (C46)		
11	*e	274453W	1	1		*e	Caterpillar 977L-14X (C46)		
12		67355W	AR	AR		*f	All Except Caterpillar D6H (C480, C481), D6R (C50, C71)		
13	*e	274452W	6	6		*g	Requires 96020W (Item 16)		
13	*d, *b	169671W	6	6					

**PTO Shaft**

Caterpillar D5R/D6N (C81)

Page 1 of 2



**PTO Shaft**

Caterpillar D5R/D6N (C81)

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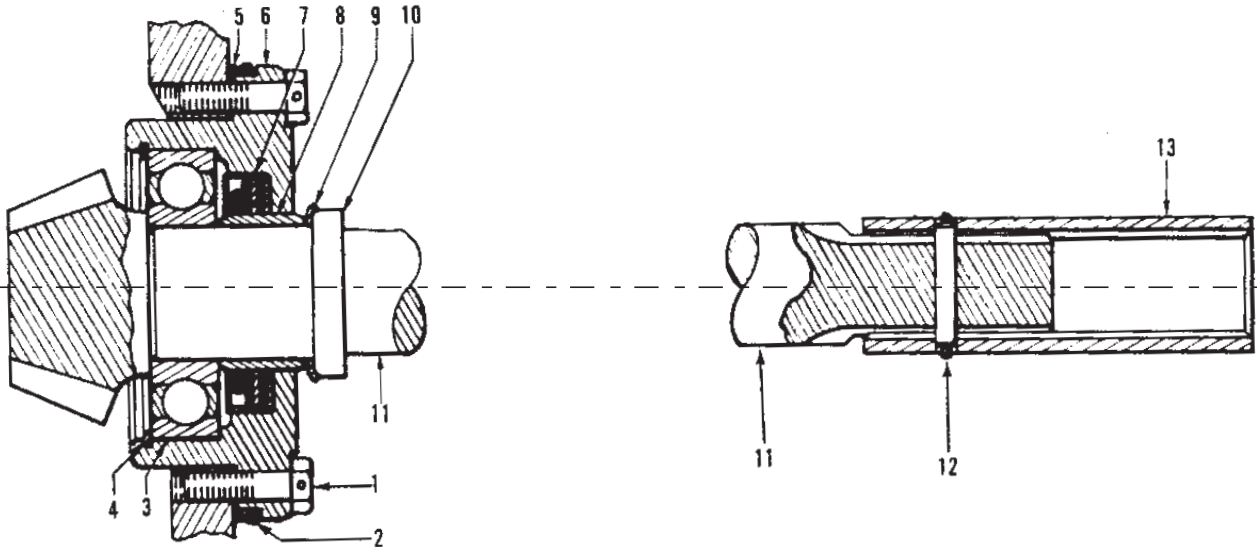
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2315562</b>	<b>Assembly, PTO</b>	<b>1</b>				
1	45310W	. Bearing, Ball	1	5	118649W	. O-Ring	2
2	35573W	. Ring, Snap	1	6	2315564	. Coupling	1
3	2315563	. Carrier, Bearing	1	7	19929W	. Pin	1
4	79389W	. Seal, Oil	1	8	2302642W	. Shaft, PTO	1

**PTO Shaft**

Dresser TD-15B (H41, H42) and TD-15C (H41)

Last Used on S/N W6FP-3699

Page 1 of 2



**PTO Shaft**

Dresser TD-15B (H41, H42) and TD-15C (H41)

Last Used on S/N W6FP-3699

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	179867W	Capscrew	6	8	96027W	Spacer	1
1	67355W	Wire	AR	9	6036W	Lockwasher	1
2	90937W	O-Ring	1	10	6037W	Nut	1
3	124684W	Bearing, Ball	1	11	198928W	Shaft, PTO	1
4	35573W	Ring, Snap	1	12	198053W	Pin	1
5	134078W	Shim .005	AR	12	12946W	Ring, Snap	1
5	134079W	Shim .007	AR	13	198931W	Coupler	1
6	98598W	Carrier, Bearing	1				
7	79389W	Seal, Oil	1				

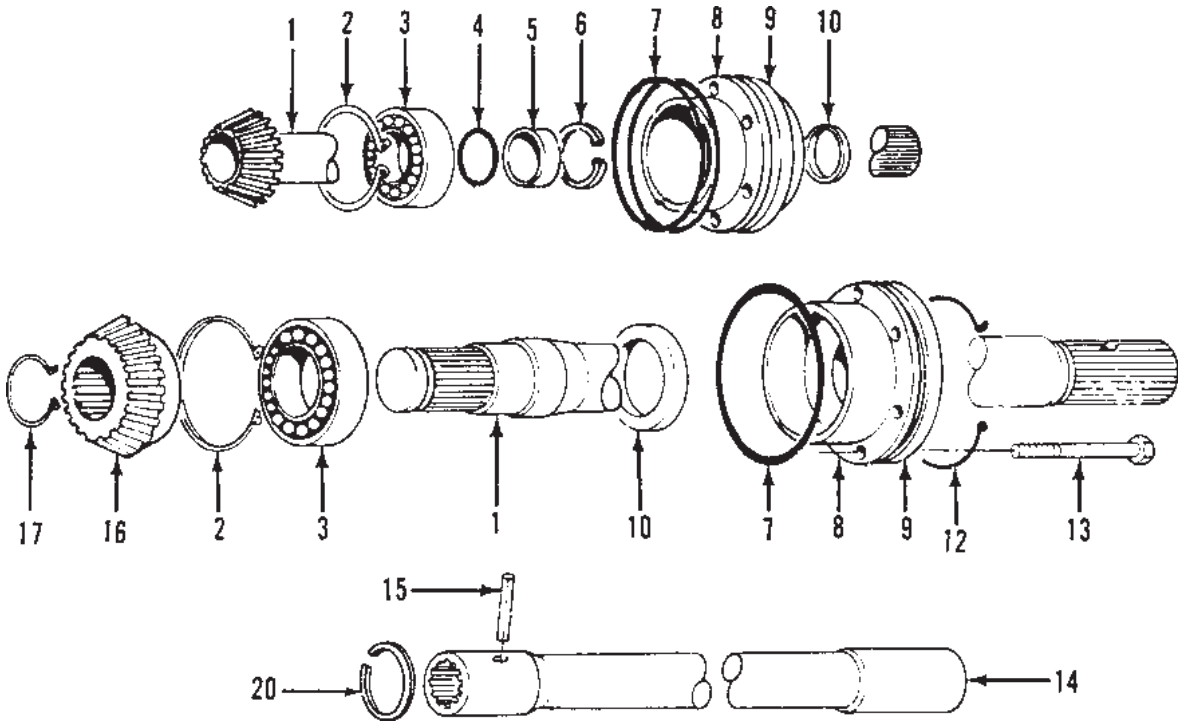
Note: Standard Gear Ratio is 64.9:1

**PTO Shaft**

Dresser TD-15B (H41, H42) and TD-15C (H41)  
 Used on S/N W6FP-3700 Thru S/N W6F-7134  
 Page 1 of 2

Tractor Model	Shaft-PTO (Item 1)					Coupler (Item 14)
	1 **	2 **	3 **	4 **	6 **	
	45.1:1 ***	56.4:1 ***	64.9:1 ***	81.0:1 ***	106.0:1 ***	
Dresser	285278W *b	285278W *b	285277W	285277W	313884W	285688W

\*\* Gear Code  
 \*\*\* Gear Ratio



**PTO Shaft**

Dresser TD-15B (H41, H42) and TD-15C (H41)

Used on S/N W6FP-3700 Thru S/N W6F-7134

Page 2 of 2

Key

A - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

B - Gear Ratios: 64.9:1, 81.0:1 & 106.4:1 (Gear Codes 3, 4 & 6)

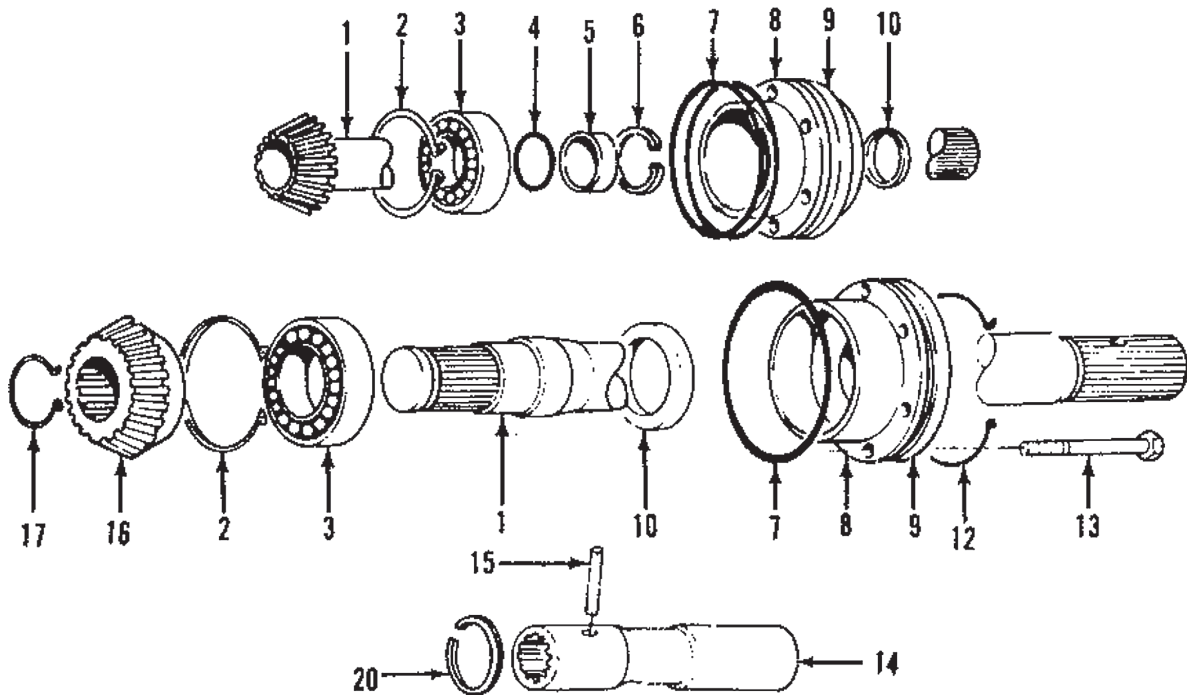
Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	*a	-----	1	1	12	67355W	Wire	AR	AR
2	35573W	Ring, Snap	1	1	13	169671W	Capscrew	6	6
3	45310W	Bearing, Ball	1	1	14	*a	-----	1	1
4	133898W	O-Ring	--	1	15	19929W	Pin	1	1
5	96524W	Spacer	--	1	16	96020W	Gear, Bevel	1	--
6	12944W	Ring, Snap	--	1	17	12916W	Ring, Snap	1	--
7	90937W	O-Ring	2	2	20	9528W	Ring, Lock	1	1
8	134078W	Shim .005	AR	AR					
8	134079W	Shim .007	AR	AR		*a	See Chart		
9	321401W	Carrier, Bearing	1	1		*b	Requires 96020W (Item 16)		
10	79389W	Seal, Oil	1	1					

**PTO Shaft**

Dresser TD-15B (H41, H42) and TD-15C (H41)  
 Used on S/N W6F-7135 Thru S/N W6F-7808  
 Page 1 of 2

Tractor Model	Shaft-PTO (Item 1)				Coupler (Item 14)
	1 **	2 **	6 **	8 **	
	45.1:1 ***	56.4:1 ***	106.0:1 ***	85.0:1 ***	
Dresser	381190W *b	381190W *b	313884W	313884W	285688W

\*\* Gear Code  
 \*\*\* Gear Ratio





**PTO Shaft**

Dresser TD-15B (H41, H42) and TD-15C (H41)

Used on S/N W6F-7135 Thru S/N W6F-7808

Page 2 of 2

Key

A - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

B - Gear Ratios: 106.4:1 & 85.2:1 (Gear Codes: 6 & 8)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty		
			A	B				A	B	
1	*a	-----	1	1	12	67355W	Wire	AR	AR	
2		35573W	1	1	13	169671W	Capscrew	6	6	
3		45310W	1	1	14	*a	-----	1	1	
4		133898W	--	1	15		19929W	Pin	1	1
5		96524W	--	1	16		96020W	Gear, Bevel	1	--
6		12944W	--	1	17		12916W	Ring, Snap	1	--
7		90937W	2	2	20		9528W	Ring, Lock	1	1
8		134078W	AR	AR		*a	See Chart			
8		134079W	AR	AR		*b	Requires 96020W (Item 16)			
9		321401W	1	1						
10		79389W	1	1						

### PTO Shaft

Dresser TD-15B (H41), TD-15BG (H42), TD-15C (H41) and TD-15E (H44, H45)

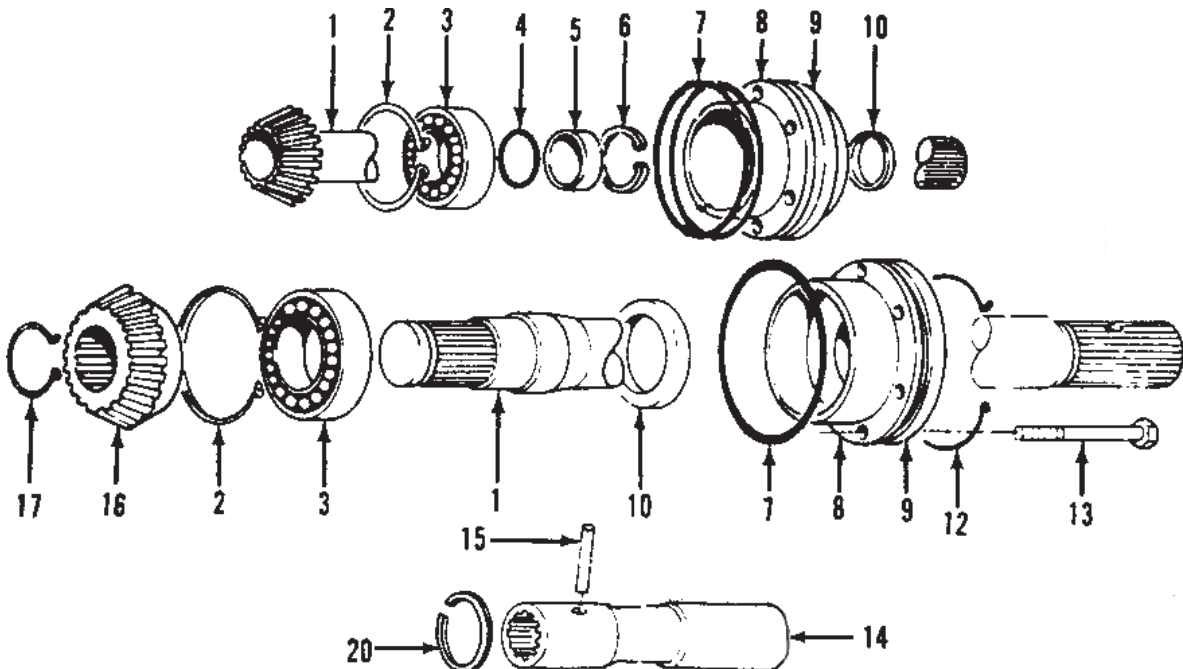
First Used on S/N W6F-7809 and Up, and on S/N AW6F-1001

Dressta TD-15H Tier II and TD-15M (H47)

Page 1 of 2

Tractor Model	Shaft-PTO (Item 1)					Coupler (Item 14)
	1 **	2 **	6 **	8 **	9 **	
	45.1:1 ***	56.4:1 ***	106.0:1 ***	85.2:1 ***	55.6:1 ***	
Dresser TD-15B/C (H41)	381190W *b	381190W *b	313884W	313884W	N/A	285688W
Dresser TD-15BG (H42)	381190W *b	381190W *b	313884W	313884W	N/A	285688W
Dresser TD-15E (H44, H45)	381190W *b	381190W *b	313884W	313884W	N/A	373645W
Dressta TD-15H Tier II TD-15M (H47)	N/A	N/A	313884W	N/A	313884W	373645W

\*\* Gear Code  
\*\*\* Gear Ratio



**PTO Shaft**

Dresser TD-15B (H41), TD-15BG (H42), TD-15C (H41) and TD-15E (H44, H45)

First Used on S/N W6F-7809 and Up, and on S/N AW6F-1001

Dressta TD-15H Tier II and TD-15M (H47)

Page 2 of 2

Key

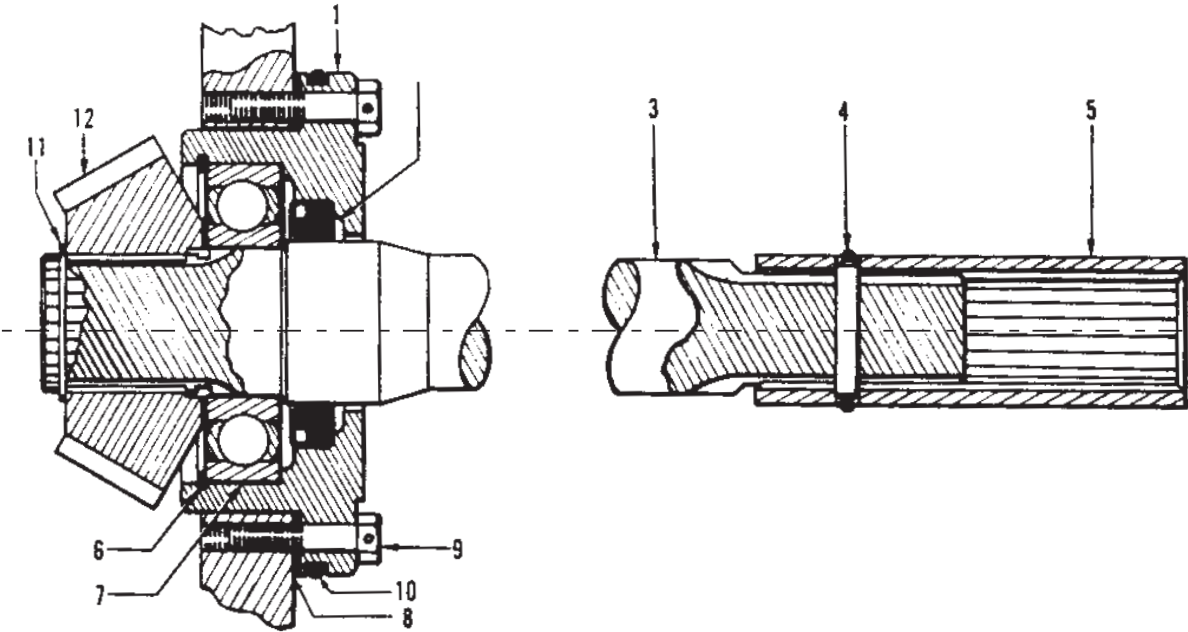
A - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

B - Gear Ratios: 106.4:1, 85.2:1 & 55.6:1 (Gear Codes: 6, 8 & 9)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty		
			A	B				A	B	
1	*a	-----	1	1	12	67355W	Wire	AR	AR	
2		35573W	1	1	13	169671W	Capscrew	6	6	
3		45310W	1	1	14	*a	-----	1	1	
4		133898W	--	1	15		19929W	Pin	1	1
5		96524W	--	1	16		96020W	Gear, Bevel	1	--
6		12944W	--	1	17		12916W	Ring, Snap	1	--
7		90937W	2	2	20		9528W	Ring, Lock	1	1
8		134078W	AR	AR	21		15893W	O-Ring	1	1
8		134079W	AR	AR						
9		321401W	1	1		*a	See Chart			
10		79389W	1	1		*b	Requires 96020W (Item 16)			

**PTO Shaft**

Fiat-Allis 11B (A41, A42)  
Last Used on S/N W6FP-3699  
Page 1 of 2



**PTO Shaft**

Fiat-Allis 11B (A41, A42)  
 Last Used on S/N W6FP-3699  
 Page 2 of 2

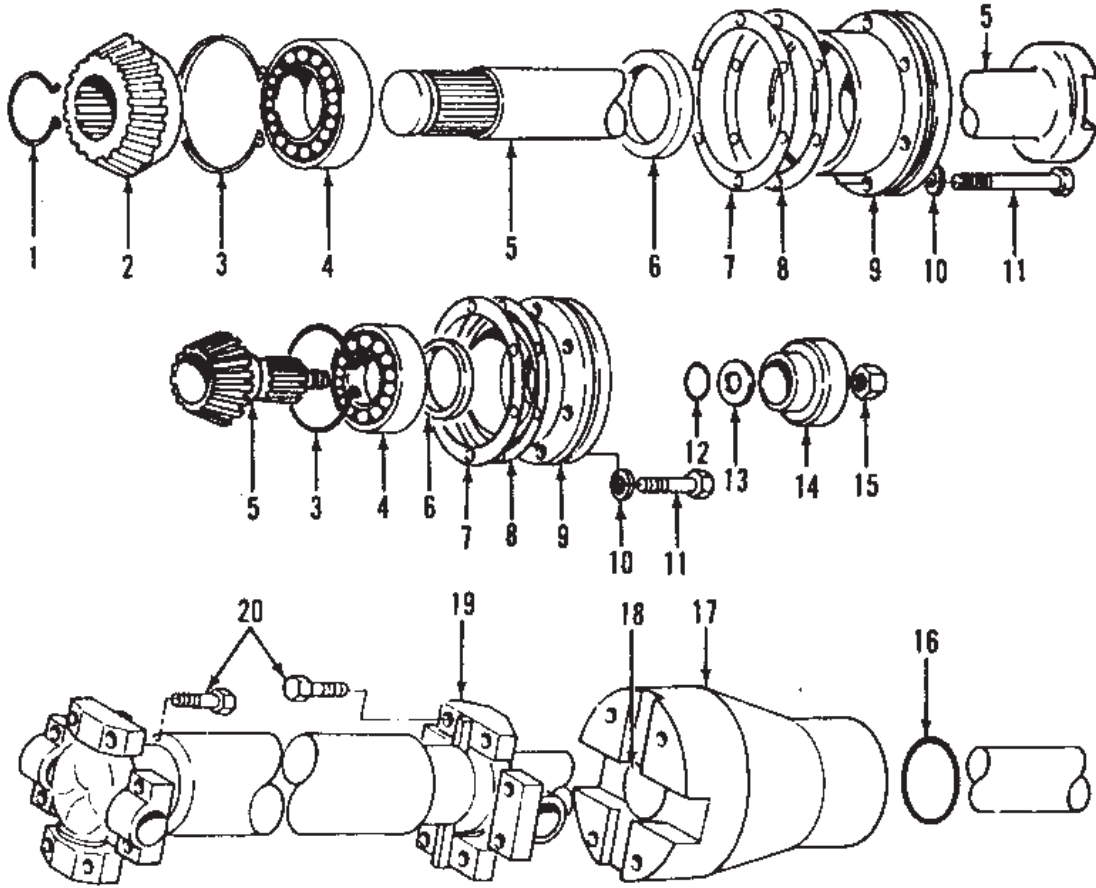
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	217614W	Carrier, Bearing	1	8	134079W	Shim .007	AR
2	79389W	Seal, Oil	1	9	216542W	Capscrew	6
3	217613W	Shaft, PTO	1	9	67355W	Wire	1
4	19929W	Pin	1	10	90937W	O-Ring	1
4	9528W	Ring, Lock	1	11	12916W	Ring, Snap	1
5	138994W	Coupler	1	12	96020W	Gear, Bevel	1
6	35573W	Ring, Snap	1				
7	124684W	Bearing, Ball	1			Note: Standard Gear Ratio is 45.1:1	
8	134078W	Shim .005	AR				

**PTO Shaft**

John Deere 750 (E32, E41), 750B (E32, E41), 755 (E32, E41),  
850 (E42, E43), 850B (E42, E43)

Last Used on S/N W6F-7143 for 750, 750B, 850 and 850B

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**PTO Shaft**

John Deere 750 (E32, E41), 750B (E32, E41), 755 (E32, E41),  
850 (E42, E43), 850B (E42, E43)

Last Used on S/N W6F-7143 for 750, 750B, 850 and 850B

Page 2 of 2

Key

A - Gear Ratio: 56.4:1 (Gear Code 2) for 850/850B

B - Gear Ratios: 81.0:1 (Gear Code 4) for 750/750B 755,  
106.4:1 (Gear Code 6) for 750/750B 850/850B

C - Gear Ratio: 81.0:1 (Gear Code 4) for 850/850B Optional

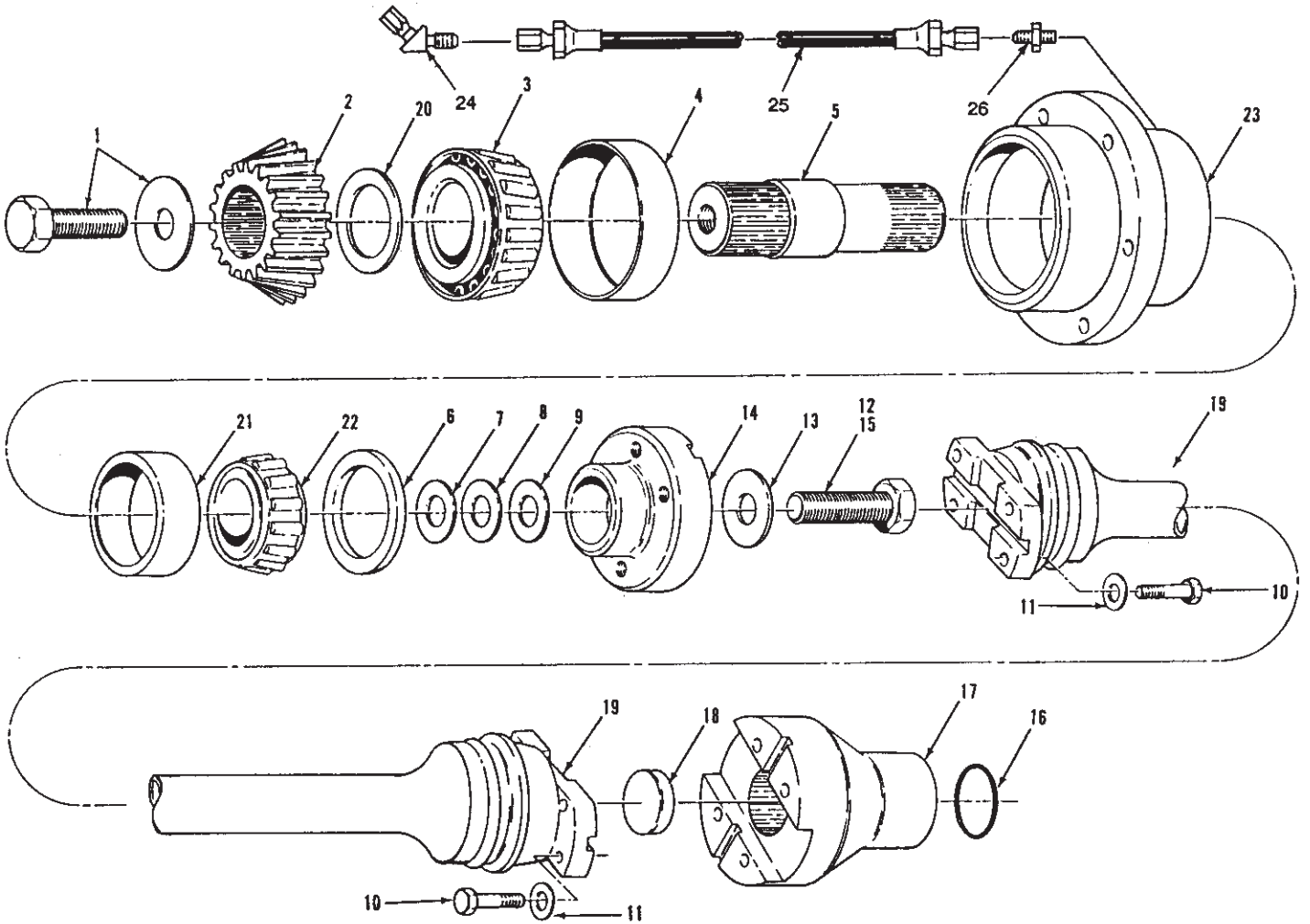
Item	Part No.	Description	Qty			Item	Part No.	Description	Qty		
			A	B	C				A	B	C
1	12916W	Ring, Snap	1	--	--	16	15869W	O-Ring	1	1	1
2	96020W	Gear, Bevel - 23T	1	--	--	17	*a 225096W	Coupler	--	1	--
3	35573W	Ring, Snap	1	--	--	17	*b 287926W	Coupler	1	1	1
4	45310W	Bearing, Ball	1	1	1	18	225097W	Cup, Dust	1	1	1
5	*g 287927W	Shaft, PTO	1	--	--	19	*a 225089W	Shaft, Universal 3C	--	1	--
5	*c 250388W	Shaft, PTO	--	1	1	19	*a 257343W	. Spider/Bearing	--	2	--
5	*d 313885W	Shaft, PTO	--	1	--	19	*a 257342W	. Tube	--	1	--
6	79389W	Seal, Oil	1	1	1	19	*b 287928W	Shaft, Universal 4C	1	1	1
7	134078W	Shim .005	AR	AR	AR	19	*b 2311342	. Spider/Bearing	2	2	2
8	134079W	Shim .007	AR	AR	AR	19	*b 301184W	. Tube	1	1	1
9	*e 225718W	Spacer	1	1	1	20	*a 221466W	Capscrew	--	8	--
9	*e 98362W	Carrier, Bearing	1	1	1	20	*b 221471W	Capscrew	8	8	8
9	*f 321401W	Carrier, Bearing	1	1	1						
10	15157W	Lockwasher	6	6	6		*a	John Deere 750 (E32, E41), 755 (E32, E41)			
11	131137W	Capscrew	6	6	6		*b	John Deere 850 (E42, E43)			
12	15862W	O-Ring	--	1	1		*c	81.0:1 Gear Ratio			
13	250390W	Washer	--	1	1		*d	106.0:1 Gear Ratio			
14	*a 250389W	Yoke	--	1	--		*e	Last Used on S/N W6F-3699 and S/N AW6F-1000			
14	*b 308414W	Yoke	--	1	1		*f	First Used on S/N W6F-3700 and S/N AW6F-1001			
15	248320W	Locknut	--	1	1		*g	Requires 96020W (Item 2)			

**PTO Shaft**

John Deere 750 (E32, E41), 750B (E32, E41), 755 (E32, 41),  
850 (E42, E43), 850B (E42, E43)

First Used on S/N W6F-7144 and Up, and on S/N AW6F-1001 for 750 and 750B;  
First Used on S/N W6F-7144 and Up, and on S/N AW6F-1001 for 850 and 850B

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**PTO Shaft**

John Deere 750 (E32, E41), 750B (E32, E41), 755 (E32, 41),  
850 (E42, E43), 850B (E42, E43)

First Used on S/N W6F-7144 and Up, and on S/N AW6F-1001 for 750 and 750B;  
First Used on S/N W6F-7144 and Up, and on S/N AW6F-1001 for 850 and 850B

Page 2 of 2

Key

A - Gear Ratio: 56.4:1 (Gear Code 2) for 850 & 850B

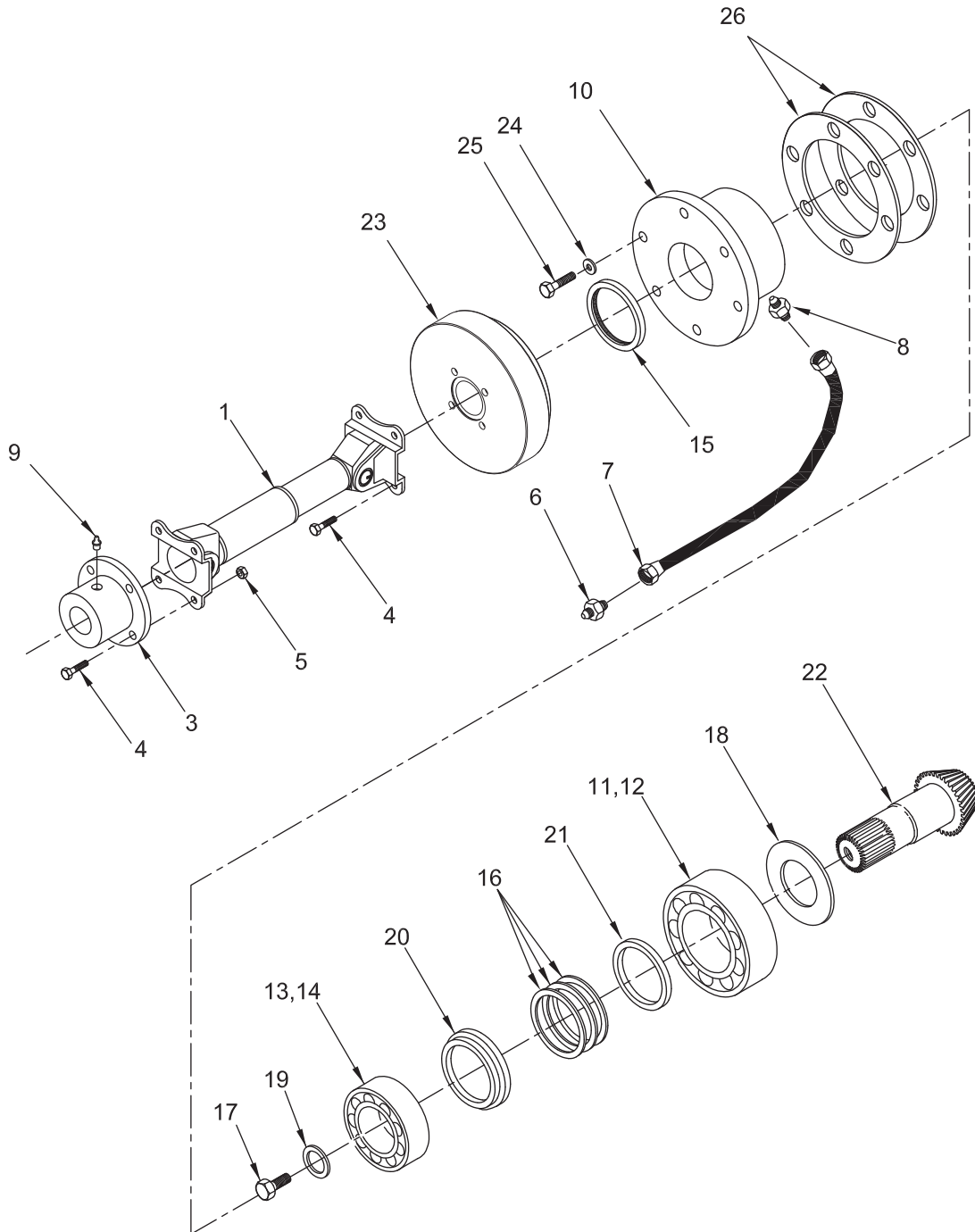
B - Gear Ratios: 106.4:1, 85.2:1, and 55.6:1 (Gear Codes 6, 8 & 9)  
for 750, 750B, 850 & 850B

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	18620W	Capscrew	1	--	16	15869W	O-Ring	1	1
1	361774W	Washer	1	--	17	*a 388610W	Coupling	1	1
2	96020W	Gear, Bevel	1	--	17	*b 1310734W	Coupling	1	1
3	323350W	Cone, Bearing	1	1	18	225097W	Cup, Dust	1	1
4	321899W	Cup, Bearing	1	1	19	1303513W	Shaft, Universal	1	1
5	*c 358043W	Shaft, PTO	1	--	19	2311342	. Spider/Bearing	2	2
5	358978W	Shaft, PTO	--	1	19	221466W	. Capscrew	8	8
5	313022W	Adhesive	AR	AR	20	358976W	Washer, Thrust	1	1
6	79389W	Seal, Oil	1	1	21	30189W	Cup, Bearing	1	1
7	358045W	Shim .003	AR	AR	22	247093W	Cone, Bearing	1	1
8	358046W	Shim .005	AR	AR	23	388601W	Carrier	1	1
9	358047W	Shim .020	AR	AR	24	16997W	Fitting	1	1
10	388611W	Capscrew	8	8	25	388606W	Assembly, Hose	1	1
11	388612W	Washer	8	8	26	225094W	Fitting w/ Orifice	1	1
12	226414W	Adhesive	AR	AR					
12	226415W	Adhesive	AR	AR					
13	361773W	Washer	1	1		*a John Deere 750 (E32, E41) and 750B (E32, E41)			
14	388605W	Yoke	1	1		*b John Deere 850 (E42, E43) and 850B (E32, E41)			
15	18620W	Capscrew	1	1		*c Requires 96020W (Item 2)			

### PTO Shaft

John Deere 750C (E45) and 750C Series II (E45)

Page 1 of 2



**PTO Shaft**

John Deere 750C (E45) and 750C Series II (E45)

Page 2 of 2

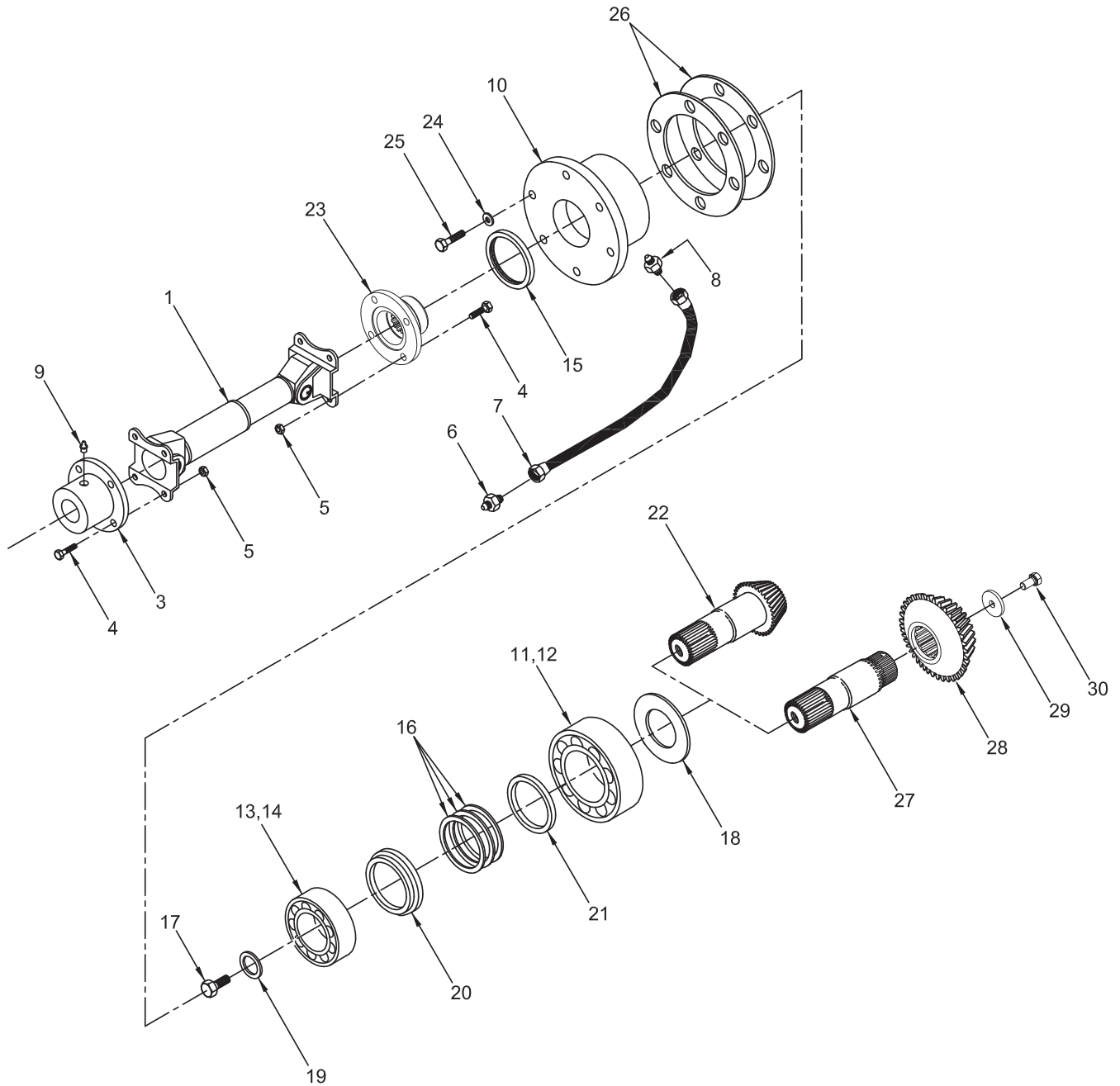
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*c 2303258W	Driveline	1	16	1314468W	Shim .018	AR
1	*c 2302798W	. Kit, Cross & Bearing	2	16	1314433W	Shim .020	AR
1	*d 2303929W	Driveline	1	16	1314434W	Shim .022	AR
1	*d 2302790W	. Kit, Cross & Bearing	2	16	1314435W	Shim .025	AR
3	*c 2301531W	Flange	1	17	*a 18620W	Capscrew	1
3	*d 2303733W	Flange	1	18	358976W	Washer, Thrust	1
4	2301540W	Capscrew	8	19	361773W	Washer	1
5	*c 2301541W	Nut	4	20	2303405W	Spacer	1
5	*d 221710W	Nut	4	21	2303406W	Spacer	1
6	16997W	Fitting	1	22	*b 358978W	Shaft, Pinion	1
7	388606W	Assembly, Hose	1	23	2303249W	Flange	1
8	225094W	Fitting	1	24	15157W	Washer	6
9	*c 16001W	Fitting, Lube	1	25	131137W	Capscrew	6
9	*d 58916W	Fitting, Lube	1	26	134078W	Shim .005	AR
10	388601W	Carrier, Bearing	1	26	134079W	Shim .007	AR
11	321899W	Cup, Bearing	1				
12	323350W	Cone, Bearing	1	*a	Use 318702W Loctite		
13	30189W	Cup, Bearing	1	*b	Use 350830W Sealant (Loctite 515)		
14	247093W	Cone, Bearing	1	*c	Last Used on S/N AW6F-4431		
15	79389W	Seal, Oil	1	*d	First Used on S/N AW6F-4432		
16	1314467W	Shim .015	AR				

### PTO Shaft

John Deere 850C (E46) and 850C Series II (E46)

Last Used on S/N AW6F-4429

Page 1 of 2



**PTO Shaft**

John Deere 850C (E46) and 850C Series II (E46)

Last Used on S/N AW6F-4429

Page 2 of 2

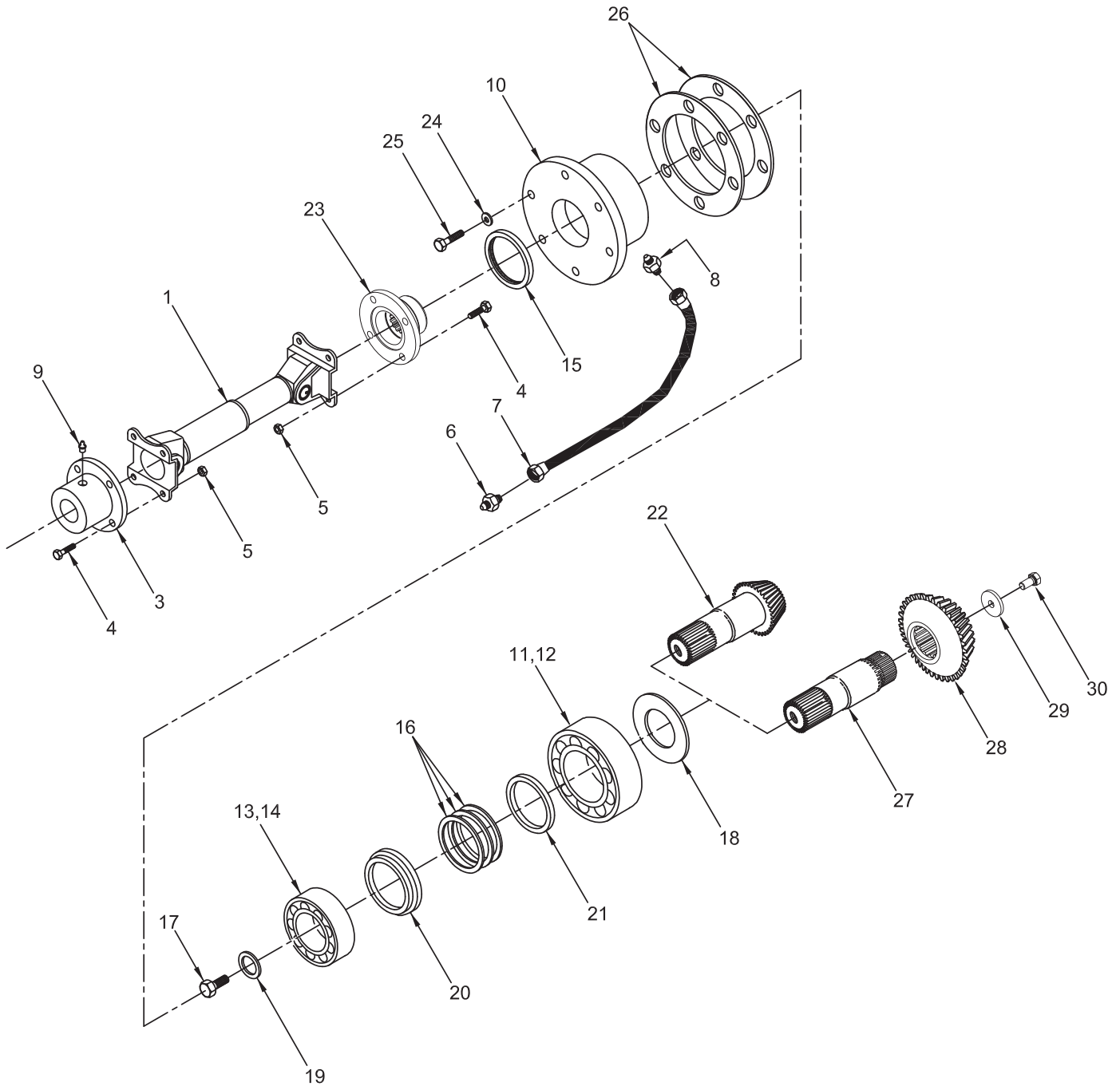
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2301576W	Driveline	1	16	1314435W	Shim .025	AR
1	2302790W	. Kit, Cross & Bearing	2	17	*a 18620W	Capscrew	1
3	2301531W	Flange	1	18	358976W	Washer, Thrust	1
4	2301540W	Capscrew	8	19	361773W	Washer	1
5	2301541W	Nut	8	20	2303405W	Spacer	1
6	16997W	Fitting	1	21	2303406W	Spacer	1
7	388606W	Assembly, Hose	1	22	*b 358978W	Shaft, Pinion	1
8	225094W	Fitting	1	23	2301589W	Flange	1
9	16001W	Fitting, Lube	1	24	15157W	Washer	6
10	388601W	Carrier, Bearing	1	25	131137W	Capscrew	6
11	321899W	Cup, Bearing	1	26	134078W	Shim .005	AR
12	323350W	Cone, Bearing	1	26	134079W	Shim .007	AR
13	30189W	Cup, Bearing	1	27	358043W	Shaft (Ratios 1 & 2)	1
14	247093W	Cone, Bearing	1	28	96020W	Gear (Ratios 1 & 2)	1
15	79389W	Seal, Oil	1	29	361774W	Washer (Ratios 1 & 2)	1
16	1314467W	Shim .015	AR	30	*a 18620W	Capscrew (Ratios 1 & 2)	1
16	1314468W	Shim .018	AR				
16	1314433W	Shim .020	AR		*a	Use 318702W Loctite	
16	1314434W	Shim .022	AR		*b	Use 350830W Sealant (Loctite 515)	

### PTO Shaft

John Deere 850C (E46) and 850C Series II (E46)

First Used on S/N AW6F-4430

Page 1 of 2



**PTO Shaft**

John Deere 850C (E46) and 850C Series II (E46)

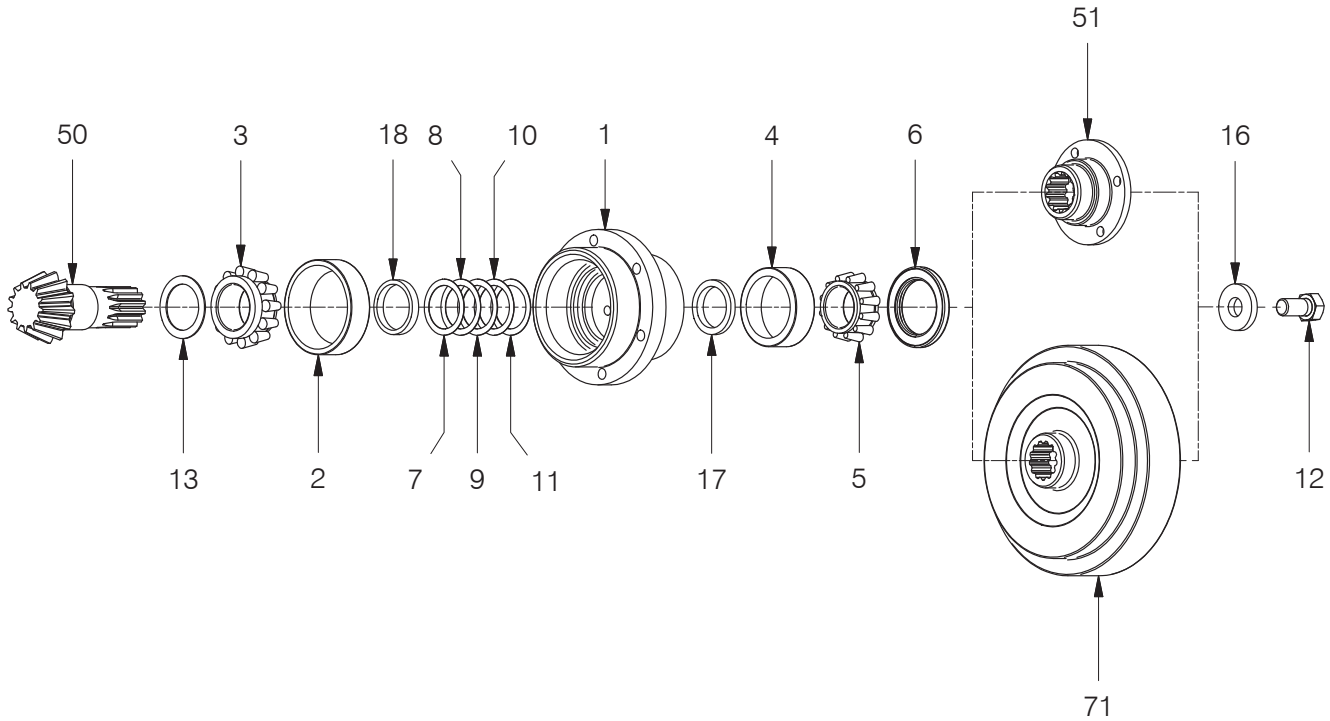
First Used on S/N AW6F-4430

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303929W	Driveline	1	16	1314435W	Shim .025	AR
1	2302790W	. Kit, Cross & Bearing	2	17	*a 18620W	Capscrew	1
3	2303733W	Flange	1	18	358976W	Washer, Thrust	1
4	2301540W	Capscrew	8	19	361773W	Washer	1
5	221710W	Nut	8	20	2303405W	Spacer	1
6	16997W	Fitting	1	21	2303406W	Spacer	1
7	388606W	Assembly, Hose	1	22	*b 358978W	Shaft, Pinion	1
8	225094W	Fitting	1	23	2301589W	Flange	1
9	58916W	Fitting, Lube	1	24	15157W	Washer	6
10	388601W	Carrier, Bearing	1	25	131137W	Capscrew	6
11	321899W	Cup, Bearing	1	26	134078W	Shim .005	AR
12	323350W	Cone, Bearing	1	26	134079W	Shim .007	AR
13	30189W	Cup, Bearing	1	27	358043W	Shaft (Ratios 1 & 2)	1
14	247093W	Cone, Bearing	1	28	96020W	Gear (Ratios 1 & 2)	1
15	79389W	Seal, Oil	1	29	361774W	Washer (Ratios 1 & 2)	1
16	1314467W	Shim .015	AR	30	*a 18620W	Capscrew (Ratios 1 & 2)	1
16	1314468W	Shim .018	AR				
16	1314433W	Shim .020	AR		*a	Use 383789W Adhesive Sealant	
16	1314434W	Shim .022	AR		*b	Use 264159W Adhesive	

**PTO Shaft**

John Deere 750J/K (E464) and 850J/K (E462)



**Key**

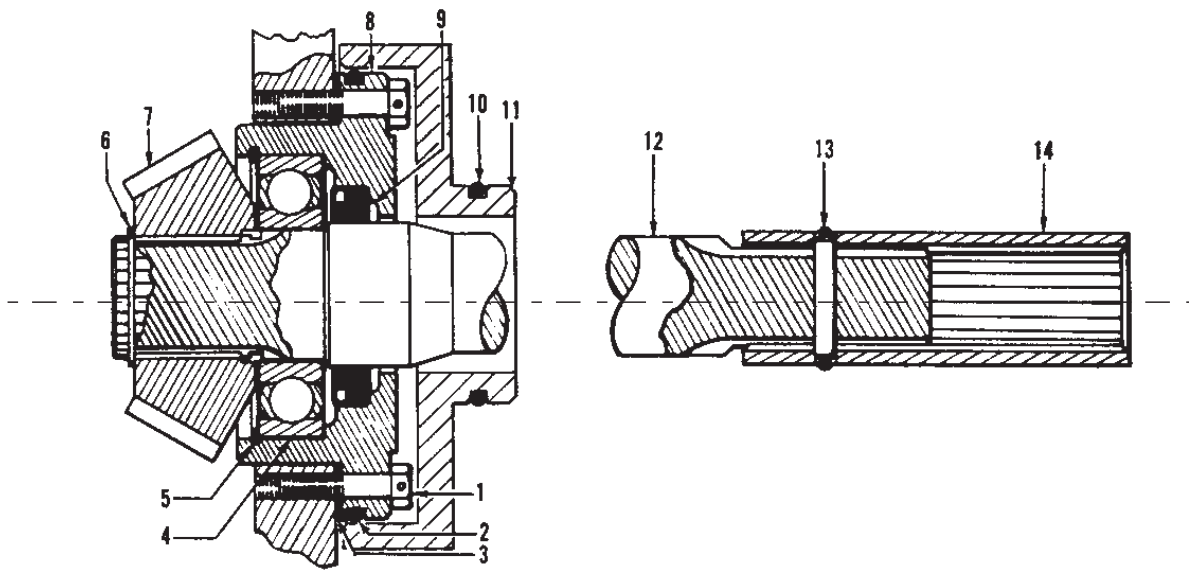
A - John Deere 750J/K  
 B - John Deere 850J/K

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	388601W	Carrier, Bearing	1	1	12	*a 18620W	Capscrew	1	1
2	321899W	Cup, Bearing	1	1	13	358976W	Washer, Thrust	1	1
3	323350W	Cone, Bearing	1	1	16	361773W	Washer	1	1
4	30189W	Cup, Bearing	1	1	17	2303405W	Spacer	1	1
5	247093W	Cone, Bearing	1	1	18	2303406W	Spacer	1	1
6	79389W	Seal, Oil	1	1	50	*b 358978W	Shaft	1	1
7	1314433W	Shim .020	AR	AR	51	2301589W	Flange	--	1
8	1314434W	Shim .022	AR	AR	71	2303249W	Flange, Dampened Winch End	1	--
9	1314435W	Shim .025	AR	AR					
10	1314467W	Shim .015	AR	AR					
11	1314468W	Shim .018	AR	AR					
					*a	Use 383789W Adhesive Sealant			
					*b	Use 264159W Adhesive			



**PTO Shaft**

Komatsu D60E-6 (K41), D60E-8 (K41), D60LE-8 (K41) and D70LE (K41)  
 Last Used on S/N W6FX-3699

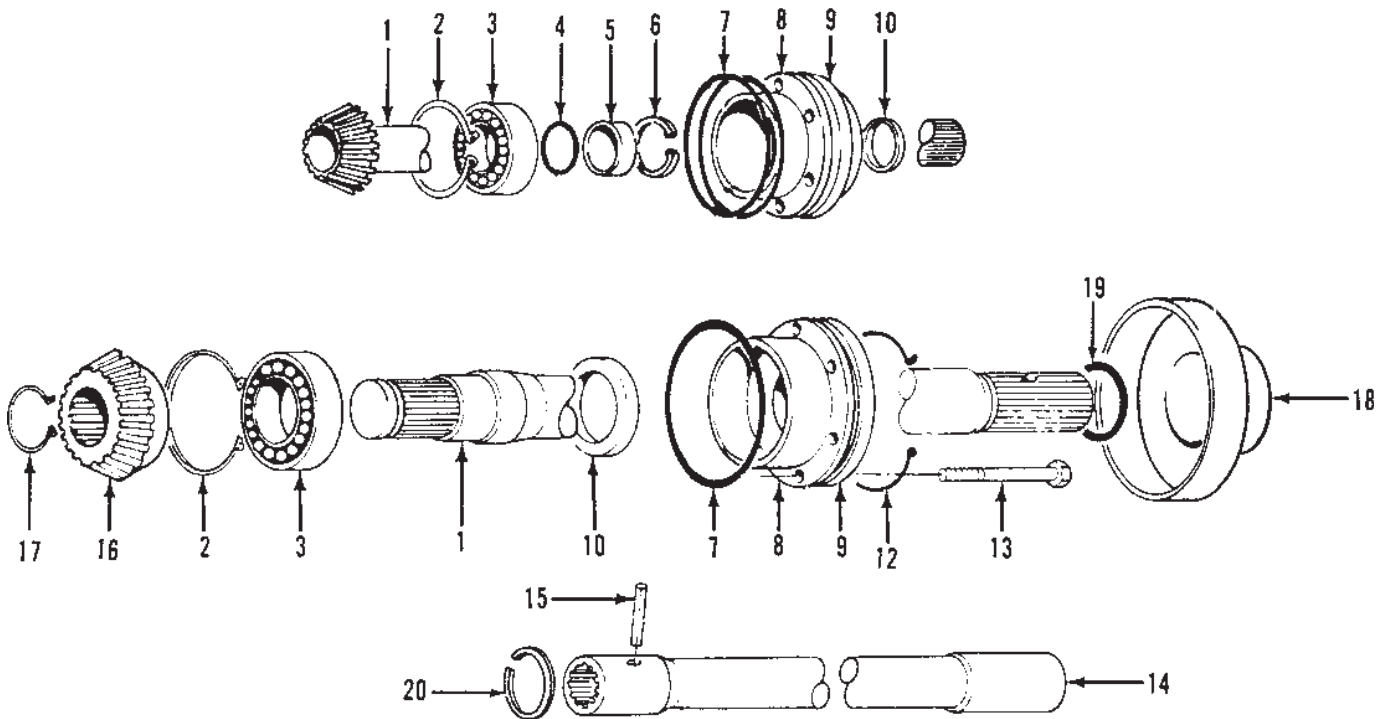


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	179867W	Capscrew	6	8	98598W	Carrier, Bearing	1
1	67355W	Wire	6	9	79389W	Seal, Oil	1
2	90937W	O-Ring	1	10	39713W	O-Ring	1
3	134078W	Shim .005	AR	11	291578W	Adapter, PTO	1
3	134079W	Shim .007	AR	12	225072W	Shaft, PTO	1
4	124684W	Bearing, Ball	1	13	213139W	Pin	1
5	35573W	Ring, Snap	1	13	54112W	Ring, Snap	1
6	12916W	Ring, Snap	1	14	213138W	Coupler	1
7	96020W	Gear, Bevel	1				

**PTO Shaft**

Komatsu D60E-6 (K41), D60E-8 (K41), D60LE-8 (K41) and D70LE (K41)  
 Used on S/N W6FP-3700 Thru S/N W6F-7134  
 Page 1 of 2

Tractor Model	Shaft-PTO (Item 1)				Coupler (Item 14)
	Gear Ratio				
	56.4:1	64.9:1	81.0:1	106.0:1	
Komatsu	285278W *b	285277W	285277W	313884W	285687W



**PTO Shaft**

Komatsu D60E-6 (K41), D60E-8 (K41), D60LE-8 (K41) and D70LE (K41)

Used on S/N W6FP-3700 Thru S/N W6F-7134

Page 2 of 2

Key

A - Gear Ratio: 56.4:1 (Gear Code 2)

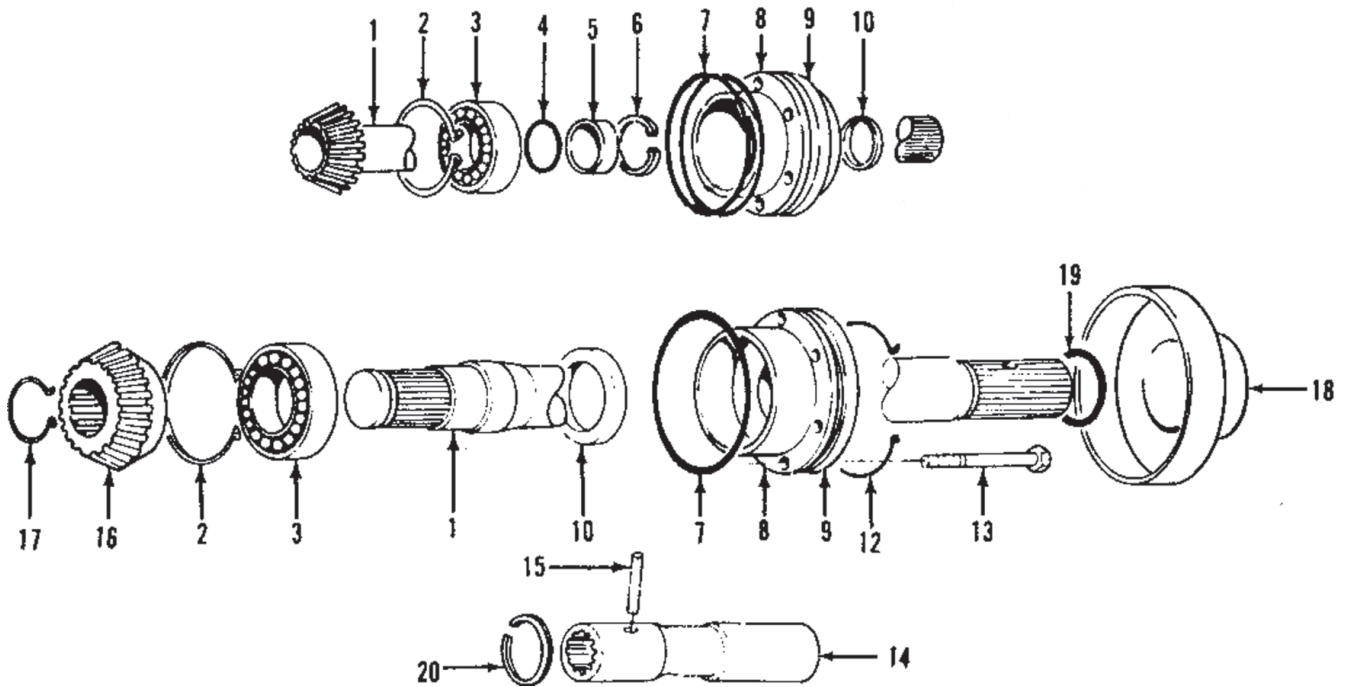
B - Gear Ratios: 64.9:1 81.0:1 & 106.4:1 (Gear Code 3, 4 & 6)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	*a	-----	1	1	12	67355W	Wire	AR	AR
2	35573W	Ring, Snap	1	1	14	*a	-----	1	1
3	45310W	Bearing, Ball	1	1	15	19929W	Pin	1	1
4	133898W	O-Ring	--	1	16	96020W	Gear, Bevel	1	--
5	96524W	Spacer	--	1	17	12916W	Ring, Snap	1	--
6	12944W	Ring, Snap	--	1	18	291578W	Adapter, PTO	1	1
7	90937W	O-Ring	2	2	19	39713W	O-Ring	1	1
8	134078W	Shim .005	AR	AR	20	9528W	Ring, Lock	1	1
8	134079W	Shim .007	AR	AR					
9	321401W	Carrier, Bearing	1	1		*a	See Chart		
10	79389W	Seal, Oil	1	1		*b	Requires 96020W (Items 16 & 17)		

### PTO Shaft

Komatsu D60E-6 (K41), D60E-8 (K41), D60LE-8 (K41) and D70LE (K41)  
 Used on S/N W6F-7134 Thru S/N W6F-7808  
 Page 1 of 2

Tractor Model	Shaft-PTO (Item 1)			Coupler (Item 14)
	Gear Ratio			
	56.4:1	85.0:1	106.0:1	
Komatsu	381190W *b	313884W	313884W	285687W



**PTO Shaft**

Komatsu D60E-6 (K41), D60E-8 (K41), D60LE-8 (K41) and D70LE (K41)  
Used on S/N W6F-7134 Thru S/N W6F-7808

Page 2 of 2

Key

A - Gear Ratio: 56.4:1 (Gear Code 2)

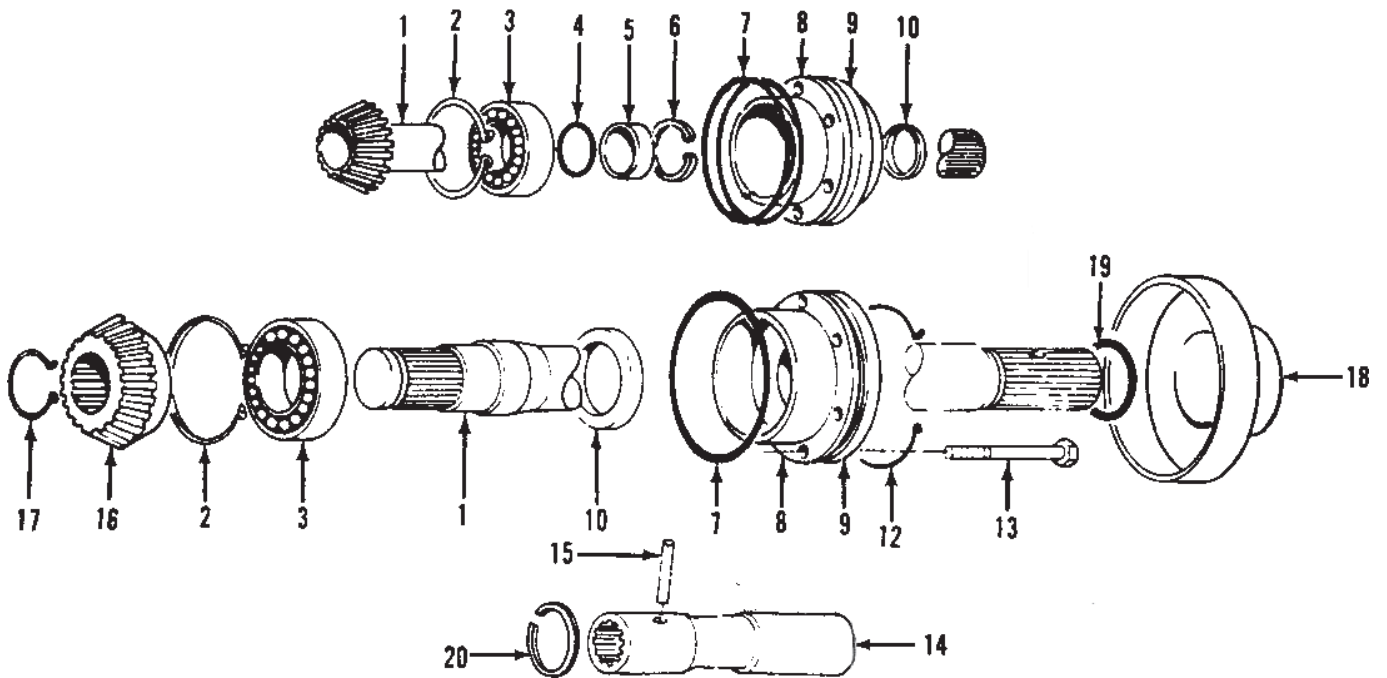
B - Gear Ratios: 106.4:1 & 85.2:1 (Gear Codes 6 & 8)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty		
			A	B				A	B	
1	*a	-----	1	1	13	169671W	Capscrew	5	5	
2		35573W	1	1	13	388655W	Capscrew, Altered	1	1	
3		45310W	1	1	14	*a	-----	1	1	
4		133898W	--	1	15		19929W	Pin	1	1
5		96524W	--	1	16		96020W	Gear, Bevel	1	--
6		12944W	--	1	17		12916W	Ring, Snap	1	--
7		90937W	2	2	18		291578W	Adapter, PTO	1	1
8		134078W	AR	AR	19		39713W	O-Ring	1	1
8		134079W	AR	AR	20		9528W	Ring, Lock	1	1
9		321401W	1	1		*a	See Chart			
10		79389W	1	1		*b	Requires 96020W (Items 16 & 17)			
12		67355W	AR	AR						

**PTO Shaft**

Komatsu D60E-6 (K41), D60E-8 (K41), D60LE-8 (K41) and D70LE (K41)  
 First Used on S/N W6F-7809 and Up, and on S/N AW6F-1001  
 Page 1 of 2

Tractor Model	Shaft-PTO (Item 1)			Coupler (Item 14)
	Gear Ratio			
	56.4:1	85.0:1	106.0:1	
Komatsu	381190W *b	313884W	313884W	285687W



**PTO Shaft**

Komatsu D60E-6 (K41), D60E-8 (K41), D60LE-8 (K41) and D70LE (K41)

First Used on S/N W6F-7809 and Up, and on S/N AW6F-1001

Page 1 of 2

Key

A - Gear Ratio: 56.4:1 (Gear Code 2)

B - Gear Ratios: 106.4:1 & 85.2:1 (Gear Code 6 & 8)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	*a	-----	1	1	12	67355W	Wire	AR	AR
2		35573W	1	1	14	*a	-----	1	1
3		45310W	1	1	15		19929W	1	1
4		133898W	--	1	16		96020W	1	--
5		96524W	--	1	17		12916W	1	--
6		12944W	--	1	18		291578W	1	1
7		90937W	2	2	19		39713W	1	1
8		134078W	AR	AR	20		9528W	1	1
8		134079W	AR	AR					
9		321401W	1	1		*a	See Chart		
10		79389W	1	1		*b	Requires 96020W (Item 16)		

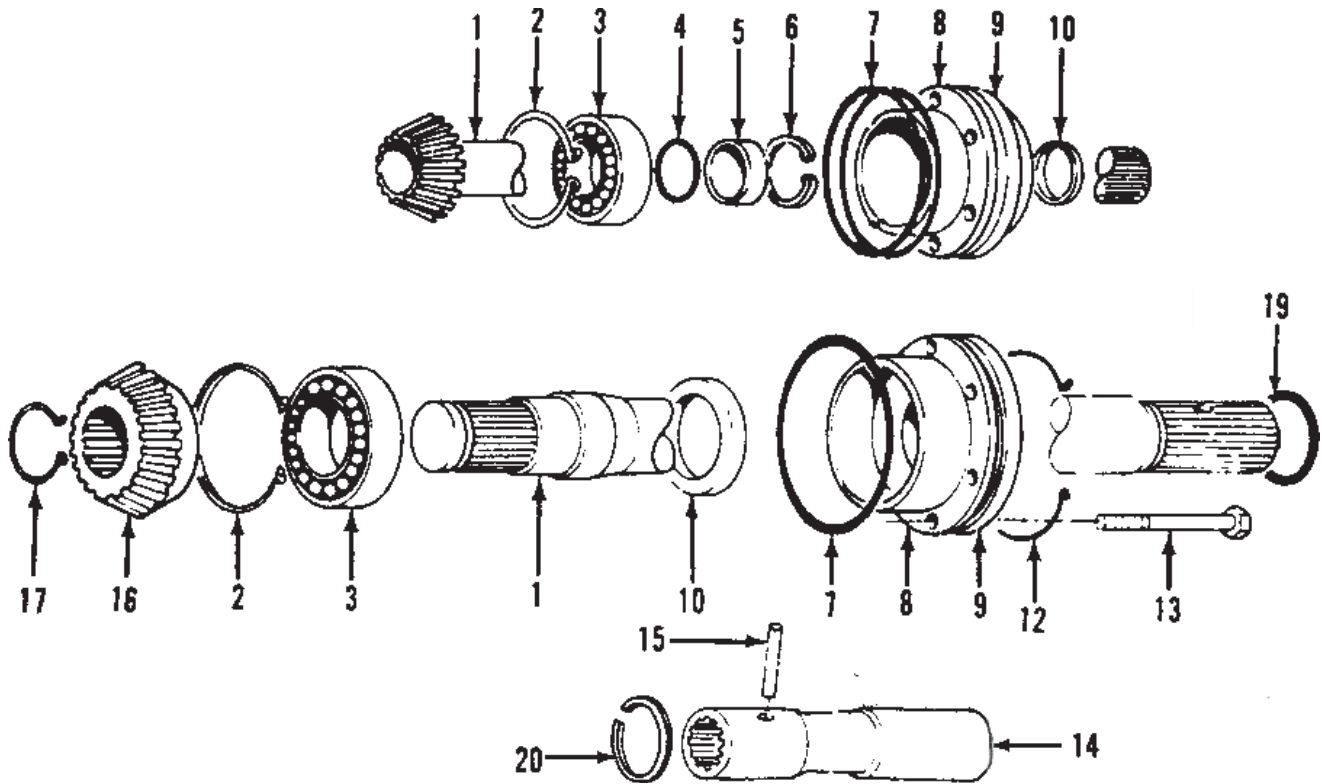
### PTO Shaft

Xuanhua T150F (X41)

First Used on S/N W6F-7809 and Up, and on S/N AW6F-1001

Page 1 of 2

Tractor Model	Shaft-PTO (Item 1)				Coupler (Item 14)
	Gear Ratio				
	45.1:1	56.4:1	85.0:1	106.0:1	
Xuanhua T150F	381190W *b	381190W *b	313884W	313884W	2302181W





**PTO Shaft**

Xuanhua T150F (X41)

First Used on S/N W6F-7809 and Up, and on S/N AW6F-1001

Page 2 of 2

Key

A - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

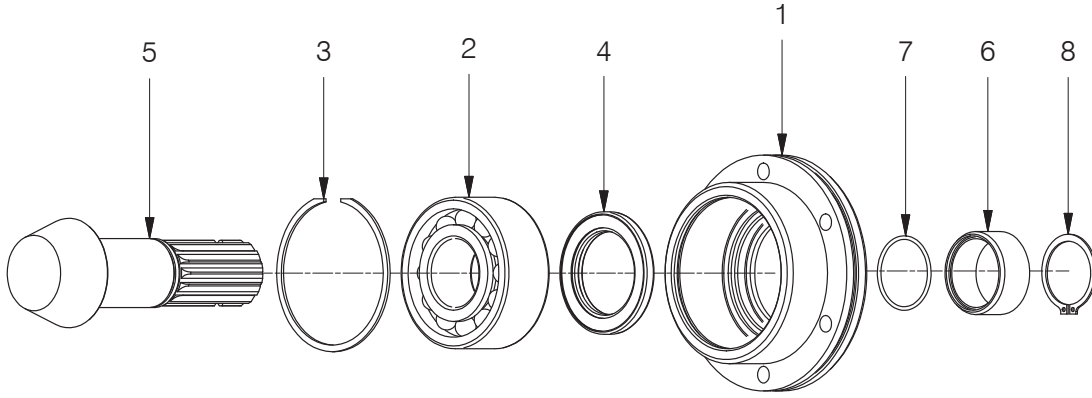
B - Gear Ratios: 106.4:1 & 85.2:1 (Gear Code 6 & 8)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	*a	-----	1	1	12	67355W	Wire	AR	AR
2	35573W	Ring, Snap	1	1	13	169671W	Capscrew	6	6
3	45310W	Bearing, Ball	1	1	14	*a	-----	1	1
4	133898W	O-Ring	--	1	15	19929W	Pin	1	1
5	96524W	Spacer	--	1	16	96020W	Gear, Bevel	1	--
6	12944W	Ring, Snap	--	1	17	12916W	Ring, Snap	1	--
7	90937W	O-Ring	2	2	20	9528W	Ring, Lock	1	1
8	134078W	Shim .005	AR	AR					
8	134079W	Shim .007	AR	AR		*a	See Chart		
9	321401W	Carrier, Bearing	1	1		*b	Requires 96020W (Item 16)		
10	79389W	Seal, Oil	1	1					

**PTO Shaft**

Zoomlion ZD160 (N46)

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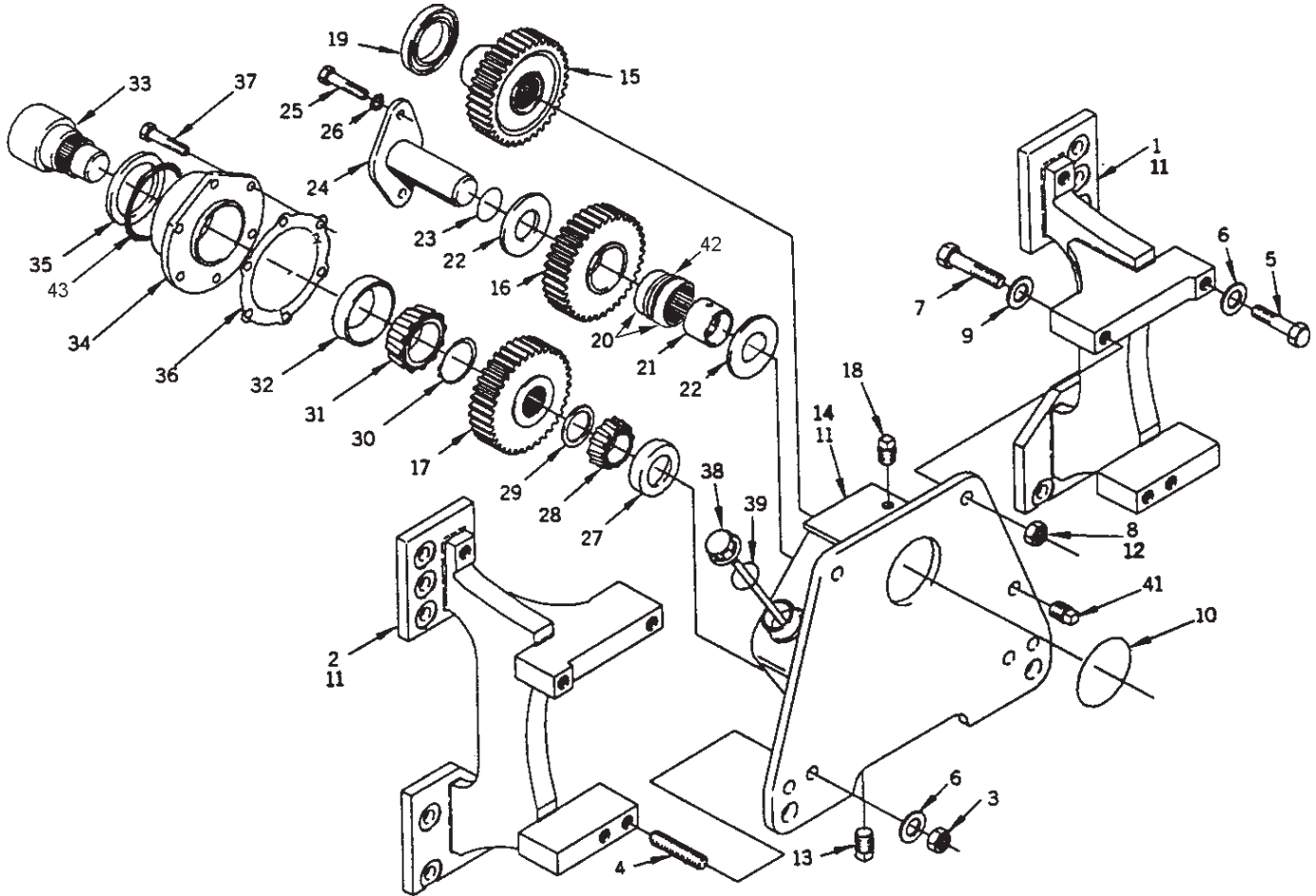
**PTO Shaft**  
Zoomlion ZD160 (N46)  
Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>358995W</b>	<b>Assembly, PTO</b>	<b>1</b>				
1	321401W	. Carrier, Bearing	1	5	313884W	. Shaft, PTO	1
2	45310W	. Bearing, Ball	1	6	96524W	. Spacer	1
3	35573W	. Ring, Snap	1	7	133898W	. O-Ring	1
4	79389W	. Seal, Oil	1	8	12944W	. Ring, Snap	1

### Gear Box

Caterpillar D6H (C480, C481) and D6R (C50, C71, C480)

Page 1 of 2



**Gear Box**

Caterpillar D6H (C480, C481) and D6R (C50, C71, C480)

Page 2 of 2

Key

A - D6H/D6R Powershift  
B - D6H/D6R Direct Drive

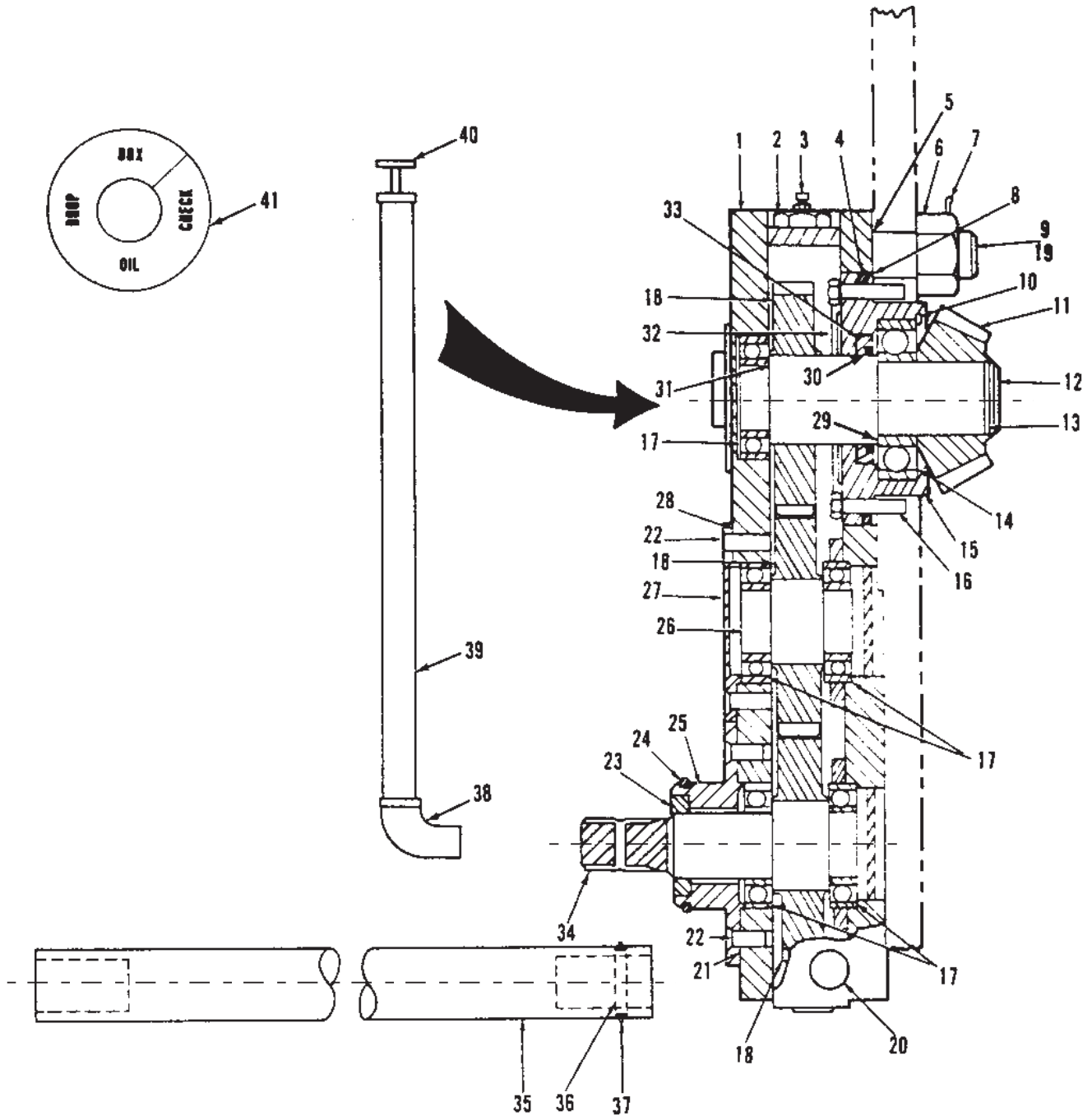
Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	-----	Bracket (See 1-17)	1	1	24	*c 374799W	. Pin	1	1
2	-----	Bracket (See 1-17)	1	1	24	*d, *e 388642W	. Pin	1	1
3	221721W	Nut	4	4	25	*e 16597W	. Capscrew	2	2
4	321408W	Stud	4	4	26	*e 15134W	. Washer	2	2
5	221694W	Capscrew	2	2	27	374803W	. Cup	1	1
6	221780W	Washer	18	18	28	374804W	. Cone	1	1
7	141596W	Capscrew	2	2	29	374805W	. Washer	1	1
8	221724W	Nut	2	2	30	12963W	. Ring, Snap	1	1
9	15128W	Washer	2	2	31	29758W	. Cone, Bearing	1	1
10	90937W	O-Ring	1	1	32	45733W	. Cup, Bearing	1	1
11	313022W	Adhesive	AR	AR	33	374807W	. Shaft	1	--
12	264134W	Adhesive	AR	AR	33	383166W	. Shaft	--	1
12	1308406W	Assembly, Gear Box	1	--	34	*b 383167W	. Carrier	1	1
12	1308407W	Assembly, Gear Box	--	1	35	123270W	. Seal, Oil	1	1
13	35504W	. Plug, Fitting	1	1	36	110931W	. Shim .005	AR	AR
14	383178W	. Box	1	1	36	110932W	. Shim .007	AR	AR
15	383156W	. Gear	1	1	36	110933W	. Shim .020	AR	AR
16	*c 374794W	. Gear	1	1	37	*a 221563W	. Capscrew	6	6
16	*d 388640W	. Gear, Idler	1	1	38	*c 388589W	. Dipstick, Altered	1	1
17	374795W	. Gear	1	1	39	*c 16487W	. O-Ring	1	1
18	*c 21420W	. Breather	1	1	41	*d 15303W	. Fitting	1	1
18	*d 15305W	. Fitting	1	1	42	*d, *e 58947W	. Snap, Ring	1	1
19	41212W	. Bearing	1	1	43	15887W	O-Ring	1	1
20	*c 374796W	. Bearing	1	1					
20	*d, *e 43307W	. Bearing	2	2		*a	Use 230064W Loctite Kit		
21	*c 374797W	. Bearing	1	1		*b	Require 313022W Adhesive		
21	*d 388646W	. Bearing	1	1		*c	Last Used on S/N W6F-9923 and AW6F-1000		
22	*c 374798W	. Washer	2	2		*d	First Used on S/N AW6F-1001		
23	*e 16984W	. O-Ring	1	1		*e	Included in 388645W Connector Kit		

### Gear Box

Fiat-Allis 10C (A47), 14B (A44, A45) and 14C (A44, A45, A46)

Last Used on S/N W6F-7143

Page 1 of 2



**Gear Box**

Fiat-Allis 10C (A47), 14B (A44, A45) and 14C (A44, A45, A46)

Last Used on S/N W6F-7143

Page 2 of 2

Key

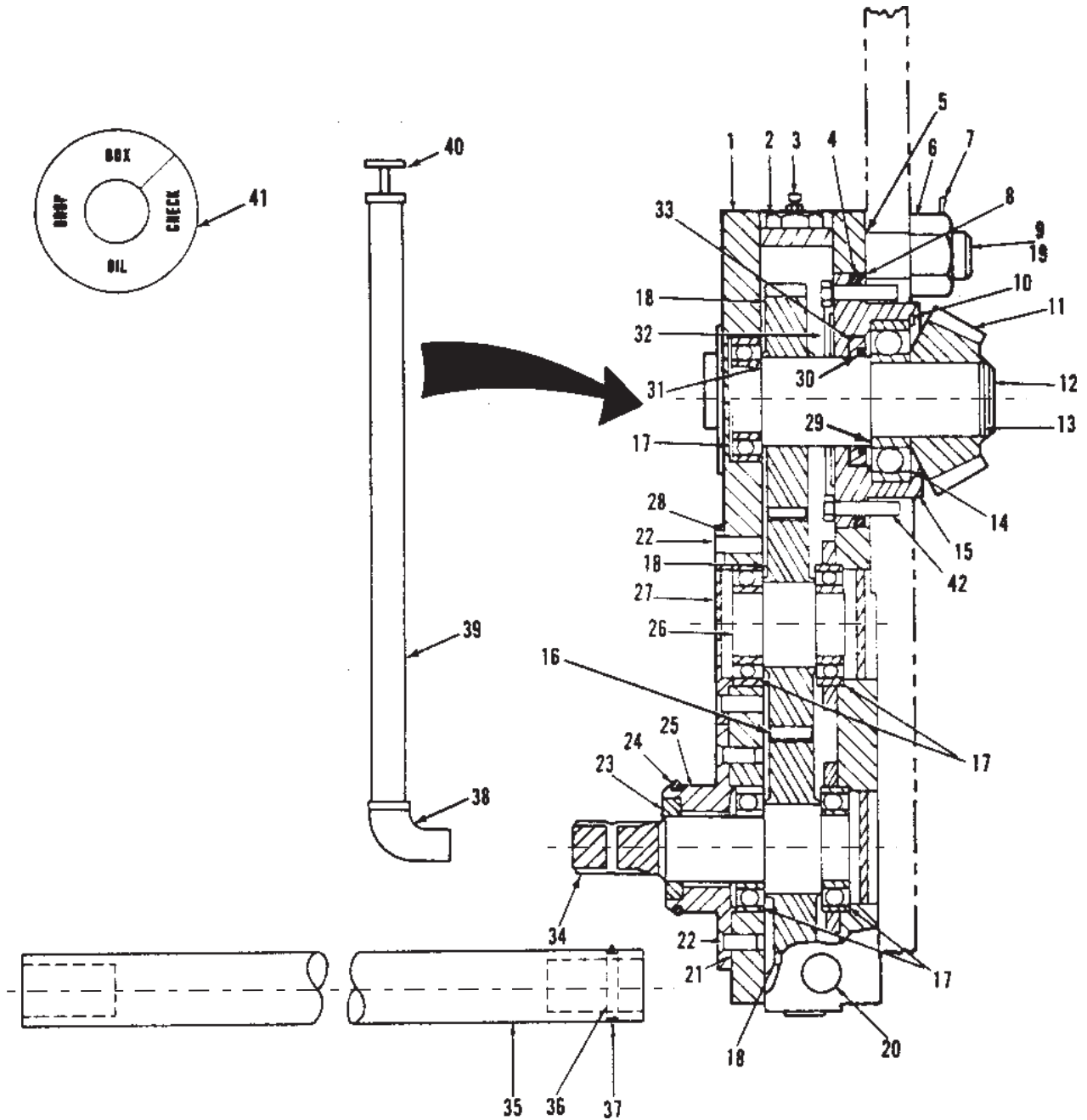
A - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

B - Gear Ratios: 65.0:1 & 81.0:1 (Gear Codes 3 & 4)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	342436W	Housing	1	1	24	15880W	O-Ring	1	1
2	252903W	Bushing	1	1	25	226436W	Retainer, Bearing	1	1
3	21420W	Breather	1	1	26	255497W	Shaft	1	1
4	90937W	O-Ring	1	1	27	255498W	Retainer	1	1
5	55434W	O-Ring	2	2	28	255499W	Gasket	1	1
6	15061W	Nut, Slotted	2	2	29	333441W	Seal, Sleeve	--	1
7	15246W	Pin, Cotter	2	2	30	39380W	O-Ring	--	1
8	134078W	Shim .005	AR	AR	31	226417W	Ring, Retainer	1	--
8	134079W	Shim .007	AR	AR	31	333442W	Bushing	--	1
9	198929W	Stud	2	2	32	67355W	Wire	AR	AR
10	35573W	Ring, Snap	1	1	33	79389W	Seal, Oil	1	1
11	96020W	Gear, Bevel	1	--	34	293154W	Shaft, PTO	1	1
12	*e 226418W	Shaft, PTO	1	--	35	*a 295766W	Coupler	1	1
12	333443W	Shaft, PTO	--	1	35	*b 287032W	Coupler	1	1
13	12916W	Ring, Snap	1	--	36	19928W	Pin	1	1
14	124684W	Bearing, Ball	1	1	37	250484W	Ring, Snap	1	1
15	98598W	Carrier, Bearing	1	1	38	*c 15336W	Elbow, Fitting	1	1
16	169671W	Capscrew	6	6	39	*c, *d -----	Pipe	1	1
17	43209W	Bearing, Ball	5	5	40	*c, *d -----	Dipstick	1	1
18	226416W	Gear	3	2	41	*c, *d -----	Decal	1	1
18	261529W	Gear (Top Gear)	--	1					
19	264134W	Adhesive	AR	AR		*a Fiat-Allis 10C (A47)			
20	146073W	Gauge	1	1		*b Fiat-Allis 14B and 14C (A44, A45, A46)			
21	250999W	Gasket	1	1		*c Optional			
22	295752W	Capscrew	8	8		*d Included in 388656W Connector Kit			
23	44482W	Seal, Oil	1	1		*e Requires 96020W (Item 11)			

### Gear Box

Fiat-Allis 10C (A47), 14B (A44, A45), 14C (A44, A45, A46) and FD14E (A48)  
 First Used on S/N W6F-7144 and Up, and on S/N AW6F-1001  
 Page 1 of 2





**Gear Box**

Fiat-Allis 10C (A47), 14B (A44, A45), 14C (A44, A45, A46) and FD14E (A48)

First Used on S/N W6F-7144 and Up, and on S/N AW6F-1001

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Key

A - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

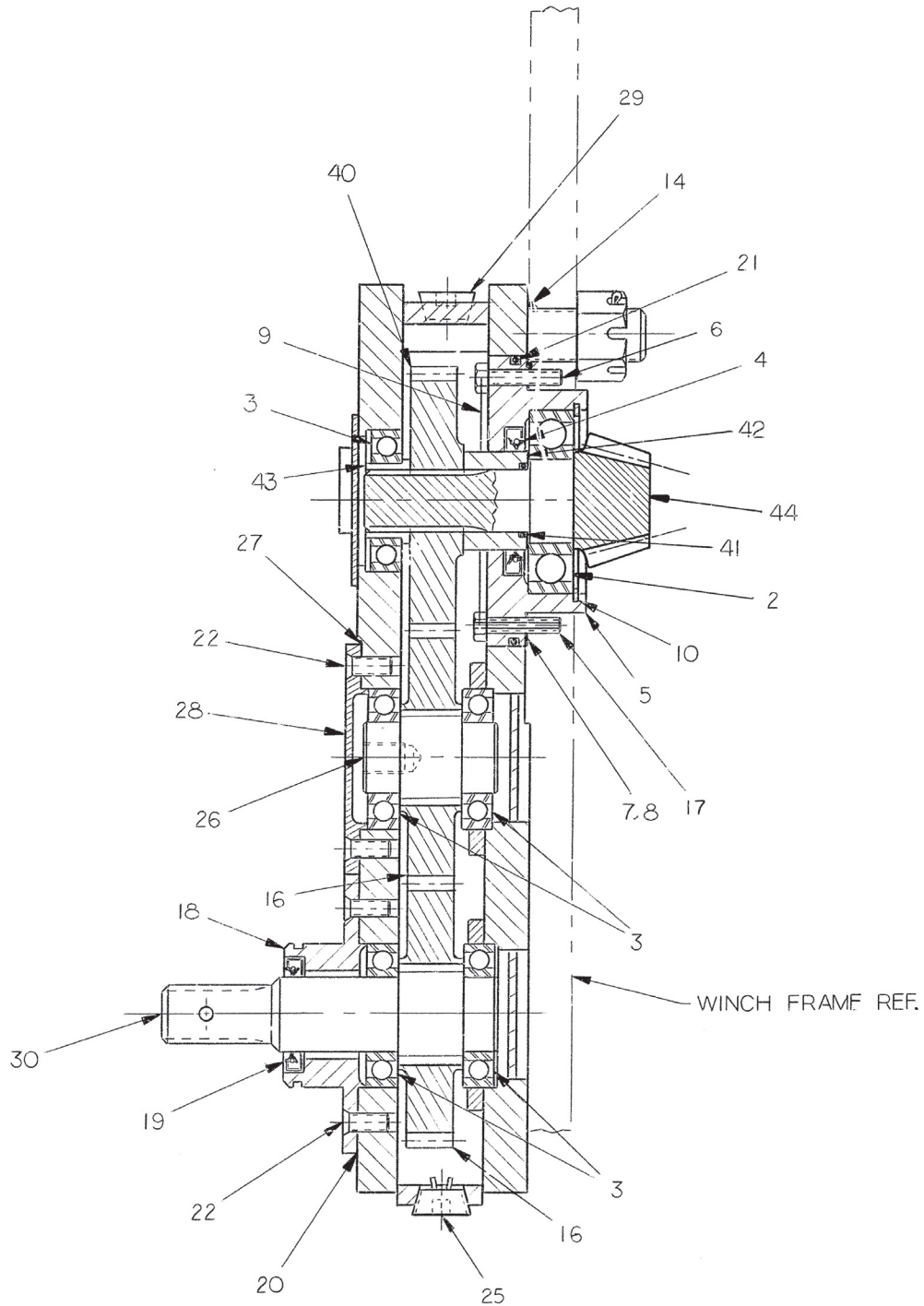
B - Gear Ratio: 85.2:1 (Gear Code 8)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	342436W	Housing	1	1	25	226436W	Retainer, Bearing	1	1
2	*e 252903W	Bushing	1	1	26	255497W	Shaft	1	1
3	*e 14349W	Fitting	1	1	27	255498W	Retainer	1	1
4	90937W	O-Ring	1	1	28	255499W	Gasket	1	1
5	55434W	O-Ring	2	2	29	333441W	Seal, Sleeve	--	1
6	15061W	Nut, Slotted	2	2	30	39380W	O-Ring	--	1
7	15246W	Pin, Cotter	2	2	31	226417W	Ring, Retainer	1	--
8	134078W	Shim .005	AR	AR	31	333442W	Bushing	--	1
8	134079W	Shim .007	AR	AR	32	67355W	Wire	AR	AR
9	198929W	Stud	2	2	33	79389W	Seal, Oil	1	1
10	35573W	Ring, Snap	1	1	34	293154W	Shaft, PTO	1	1
11	96020W	Gear, Bevel	1	--	35	*a 295766W	Coupler	1	1
12	*f 226418W	Shaft, PTO	1	--	35	*b 287032W	Coupler	1	1
12	358999W	Shaft, PTO	--	1	36	19928W	Pin	1	1
13	12916W	Ring, Snap	1	--	37	250484W	Ring, Snap	1	1
14	124684W	Bearing, Ball	1	1	38	*c, *d 15336W	Elbow, Fitting	1	1
15	98598W	Carrier, Bearing	1	1	39	*c, *d, *e -----	Pipe	1	1
16	*e 169671W	Capscrew	6	6	40	*c, *d, *e -----	Dipstick	1	1
16	169671W	Capscrew	5	5	41	*c, *d, *e -----	Decal	1	1
16	388655W	Capscrew, Altered	1	1	42	*e 169671W	Capscrew	1	1
17	43209W	Bearing, Ball	5	5	42	388655W	Capscrew, Altered	1	1
18	226416W	Gear	3	2					
18	261529W	Gear (Top Gear)	--	1		*a Fiat-Allis 10C (A47)			
19	264134W	Adhesive	AR	AR		*b Fiat-Allis 14B (A44, A45), 14C (A44, A45, A46) and FD14E (A48)			
20	146073W	Gauge	1	1		*c Optional			
21	250999W	Gasket	1	1		*d Included in 388656W Connector Kit			
22	295752W	Capscrew	8	8		*e Last Used on S/N W6F-9923 and S/N AW6F-1000			
23	44482W	Seal, Oil	1	1		*f Requires 96020W (Item 11)			
24	15880W	O-Ring	1	1					

### Gear Box

Fiat-Hitachi New Holland DC-180 (A49)

Page 1 of 2

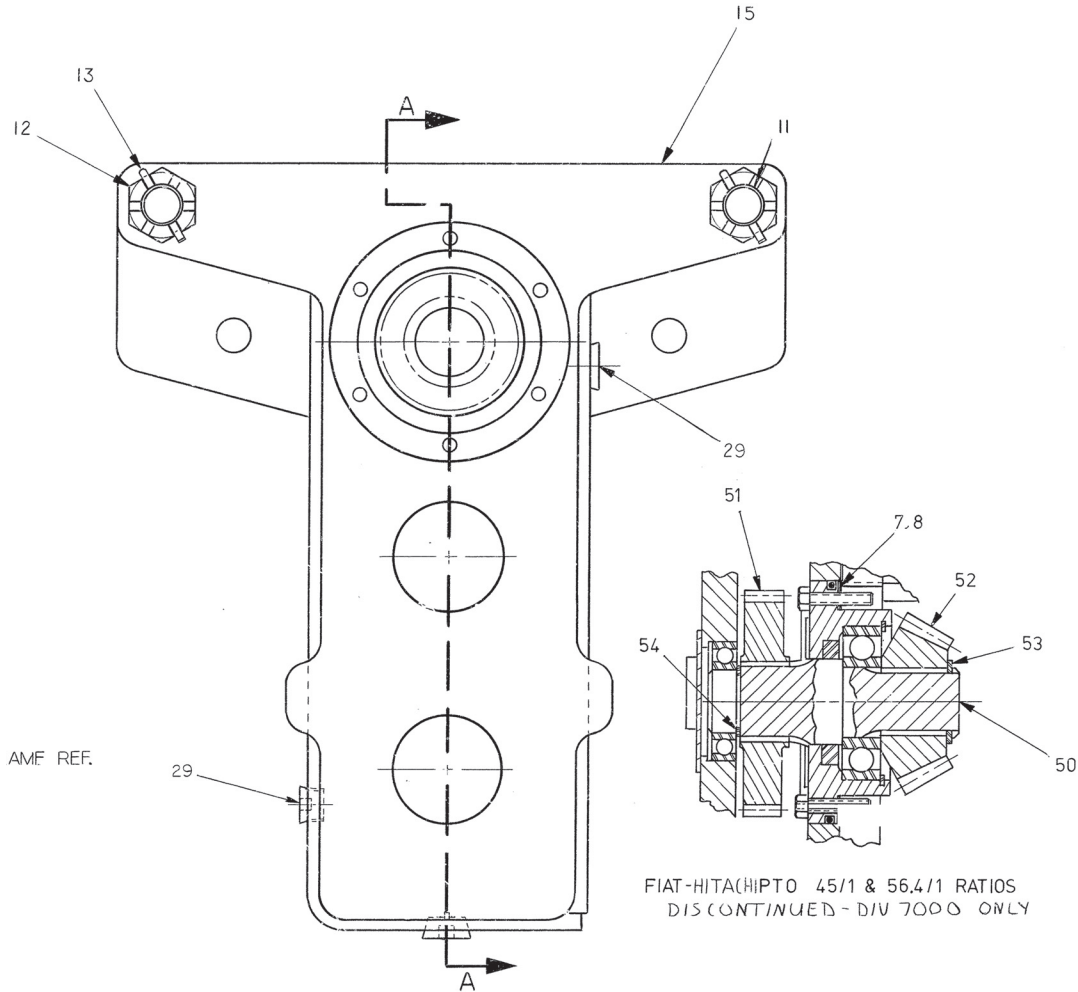


SECTION A-A  
FIAT-HITACHI 85/1 & 106/14 55/45  
RATIOS

### Gear Box

Fiat-Hitachi New Holland DC-180 (A49)

Page 2 of 2



**Key**

A - Gear Ratios: 106.4:1, 85.2:1 & 55.6:1 (Gear Codes 6, 8 & 9)

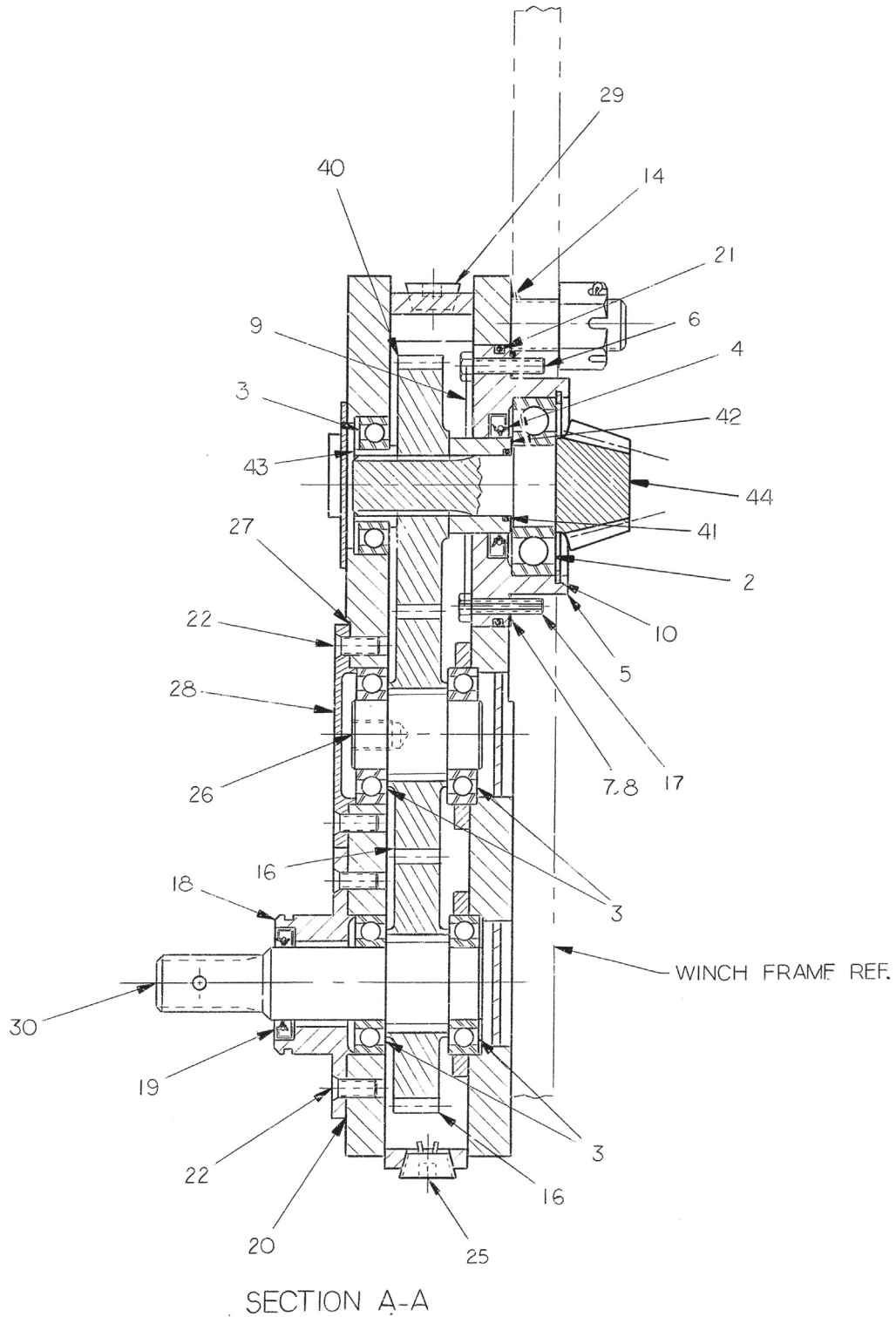
B - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
2	124684W	Bearing	2	2	22	295752W	Capscrew	8	8
3	43209W	Bearing	5	5	25	10389W	Fitting	1	1
4	79389W	Seal	1	1	26	255497W	Shaft	1	1
5	98598W	Carrier, Bearing	1	1	27	255499W	Gasket	1	1
6	169671W	Capscrew	5	5	28	255498W	Retainer	1	1
7	134078W	Shim .005	5	5	29	15316	Fitting	3	3
8	134079W	Shim .007	1	1	30	293154W	Shaft, PTO	1	1
9	67355W	Lockwire	1.5Ft.	1.5Ft.	40	261529W	Gear	1	--
10	35573W	Ring, Snap	1	1	41	39380W	O-Ring	1	--
11	*a 198929W	Stud	2	2	42	333441W	Seal	1	--
12	15061W	Nut	2	2	43	333442W	Bushing	1	--
13	15246W	Pin	2	2	44	358999W	Shaft, PTO	1	--
14	55435W	O-Ring	2	2	50	*b 226418W	Shaft, PTO	--	1
15	342436W	Housing	1	1	51	226416W	Gear	--	1
16	226416W	Gear	2	2	52	96020W	Gear, Bevel	--	1
17	388655W	Capscrew	1	1	53	12916W	Ring, Snap	--	1
18	226436W	Retainer, Bearing	1	1	54	226417W	Ring, Retaining	--	1
19	44482W	Seal	1	1					
20	250999W	Gasket	1	1					
21	90937W	O-Ring	1	1					
					*a	Use 264134W Adhesive Sealant			
					*b	Requires 96020W (Item 52)			

# Gear Box

JI Case 1850K (R49)

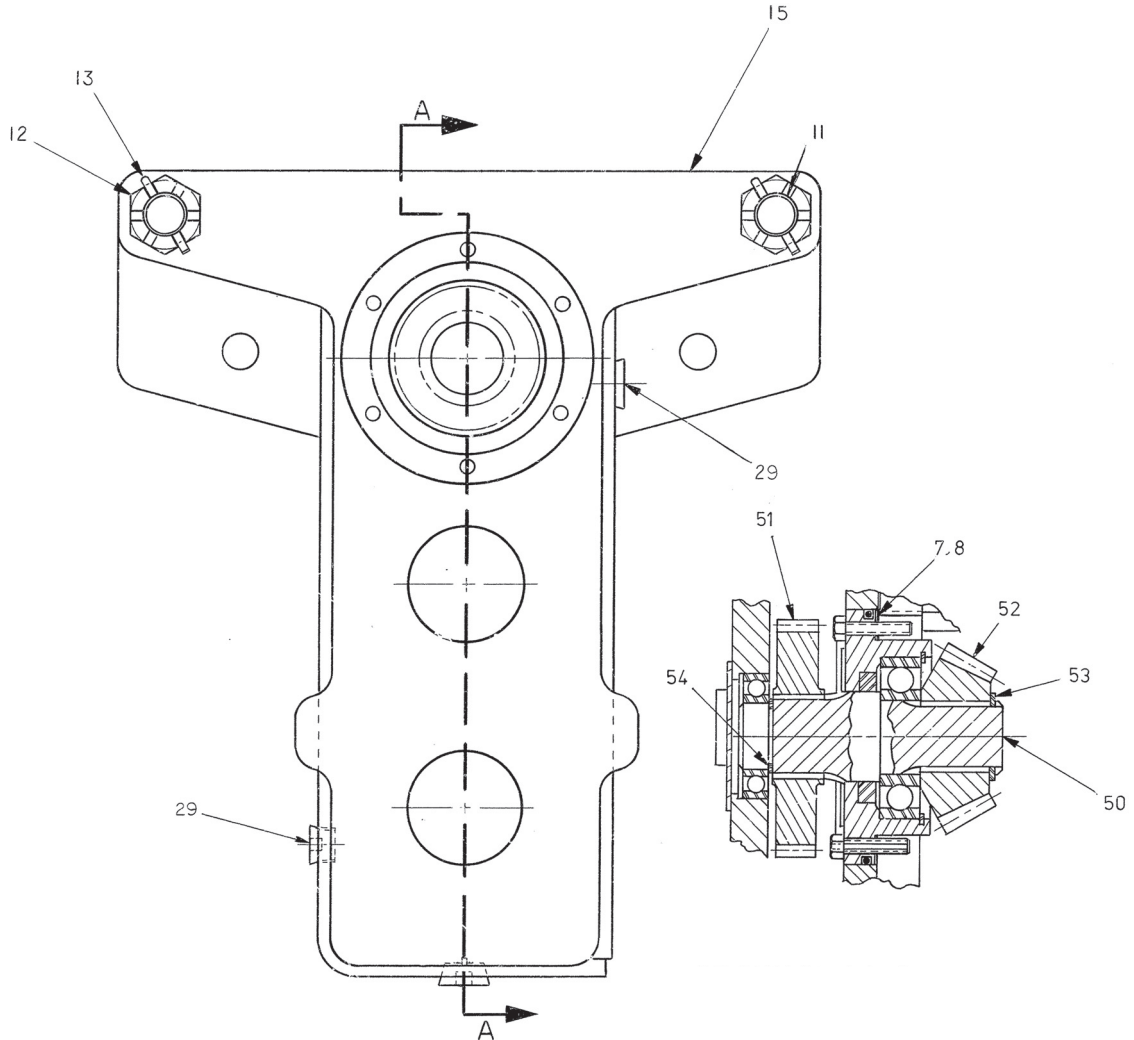
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**Gear Box**

JI Case 1850K (R49)

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Key

A - Gear Ratios: 106.4:1, 85.2:1 & 55.6:1 (Gear Codes 6, 8 & 9)

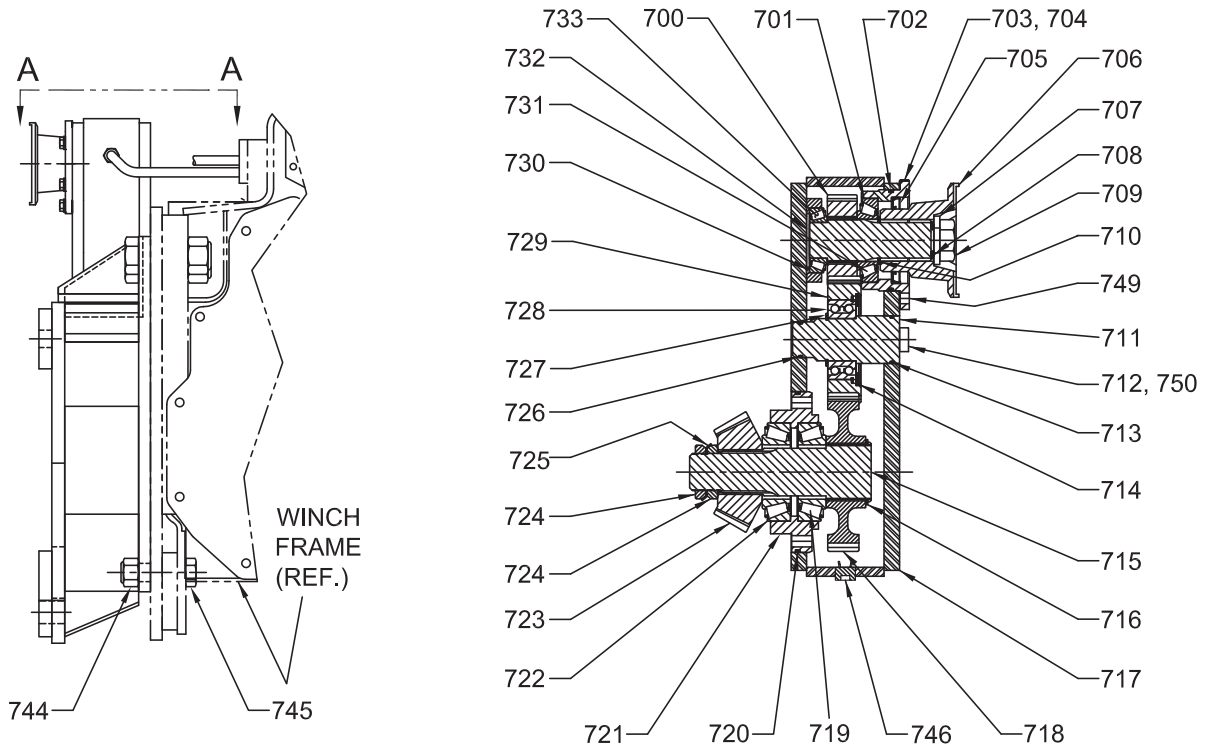
B - Gear Ratios: 45.1:1 & 56.4:1 (Gear Codes 1 & 2)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
2	124684W	Bearing	2	2	22	295752W	Capscrew	8	8
3	43209W	Bearing	5	5	25	10389W	Fitting	1	1
4	79389W	Seal	1	1	26	255497W	Shaft	1	1
5	98598W	Carrier, Bearing	1	1	27	255499W	Gasket	1	1
6	169671W	Capscrew	5	5	28	255498W	Retainer	1	1
7	134078W	Shim .005	5	5	29	15316	Fitting	3	3
8	134079W	Shim .007	1	1	30	293154W	Shaft, PTO	1	1
9	67355W	Lockwire	1.5Ft.	1.5Ft.	40	261529W	Gear	1	--
10	35573W	Ring, Snap	1	1	41	39380W	O-Ring	1	--
11	*a 198929W	Stud	2	2	42	333441W	Seal	1	--
12	15061W	Nut	2	2	43	333442W	Bushing	1	--
13	15246W	Pin	2	2	44	358999W	Shaft, PTO	1	--
14	55435W	O-Ring	2	2	50	226418W	Shaft	--	1
15	342436W	Housing	1	1	51	226416W	Gear	--	1
16	226416W	Gear	2	2	52	96020W	Gear, Bevel	--	1
17	388655W	Capscrew	1	1	53	12916W	Ring, Snap	--	1
18	226436W	Retainer, Bearing	1	1	54	226417W	Ring, Retaining	--	1
19	44482W	Seal	1	1					
20	250999W	Gasket	1	1					
21	90937W	O-Ring	1	1					
					*a	Use 264134W Adhesive Sealant			

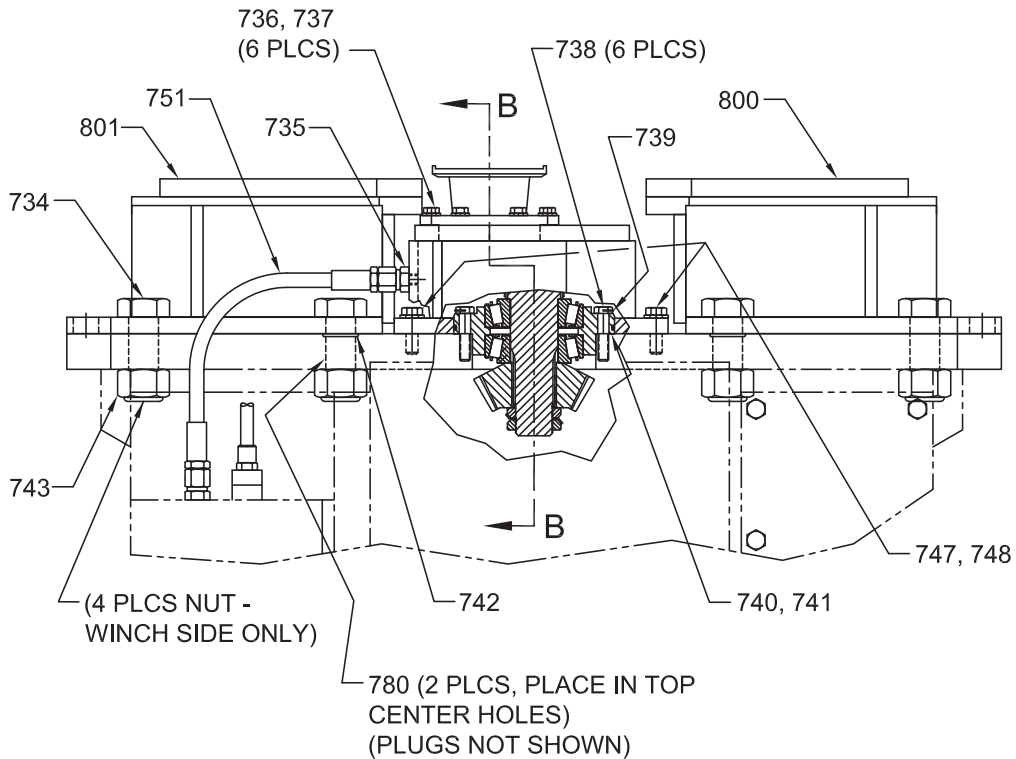
**Gear Box**

Komatsu D61EX-12 (K47)

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SECTION B-B



VIEW A-A

## Gear Box

Komatsu D61EX-12 (K47)

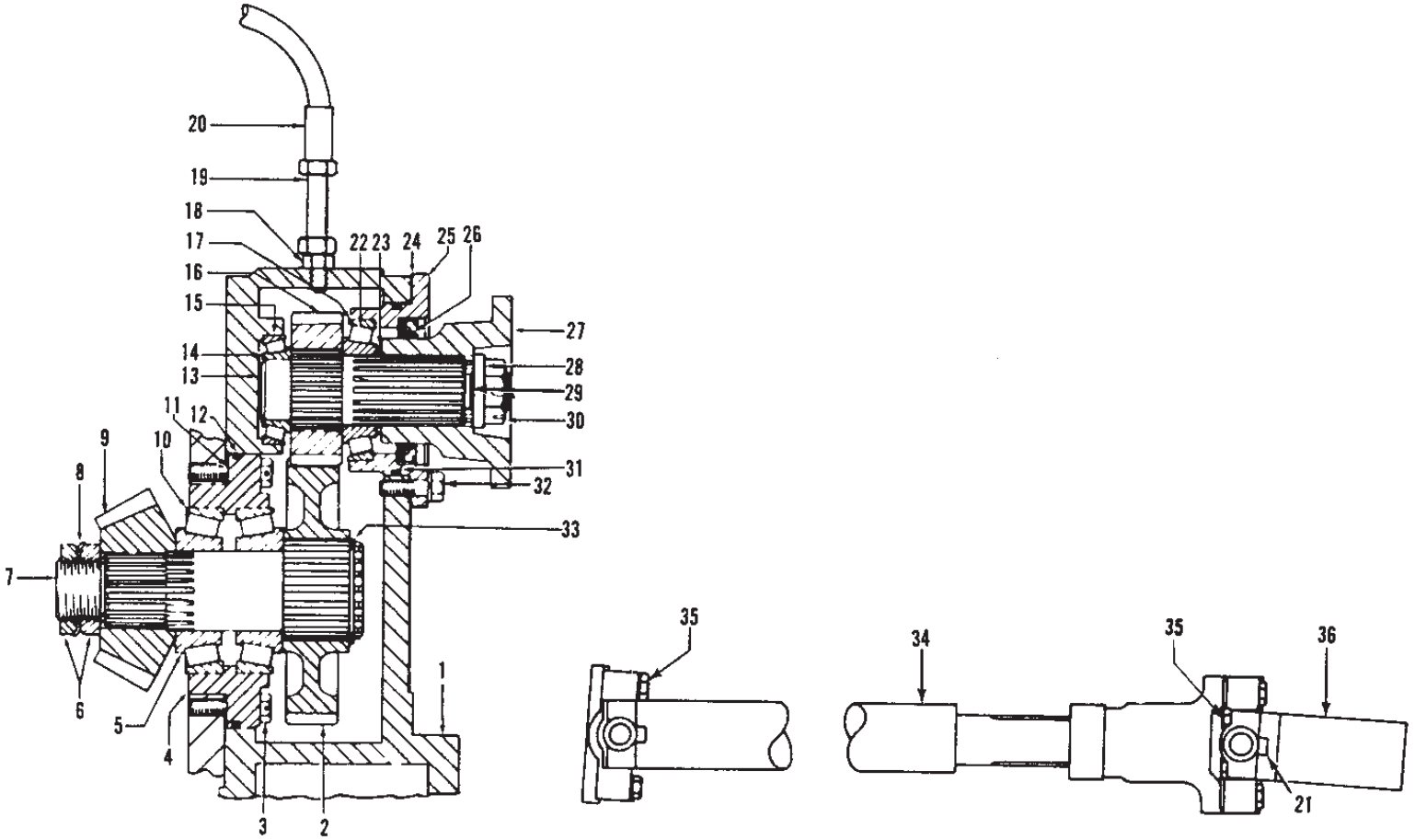
Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
700	*a 240175W	Pinion	1	728	*a 295754W	Bearing	1
701	*a 30055W	Cup, Roller Bearing	1	729	*a 308404W	Gear	1
702	*a 203533	O-Ring	1	730	*a 230426W	Cup, Roller Bearing	1
703	*a 242825W	Shim .005	AR	731	*a 30279W	Cone, Roller Bearing	1
704	*a 242826W	Shim .007	AR	732	*a 332231W	Shaft	1
705	*a 156223W	Seal, Oil	1	733	*a 230427W	Cone, Roller Bearing	1
706	*a 159906W	Yoke	1	734	17882W	Capcrew	4
707	*a 332225W	Washer	1	735	225094W	Fitting	1
708	*a 331774W	O-Ring	1	736	*a 179443W	Capcrew, Sealing	6
709	*a 222679W	Nut	1	737	*a 15156W	Washer	6
710	*a 36150W	Ring, Snap	1	738	169671W	Capcrew	6
711	*a 2300567W	Shaft	1	739	67355W	Lockwire	1
712	*a 294938W	Keeper	1	740	134078W	Shim .005	AR
713	*a 39387W	O-Ring	1	741	134079W	Shim .007	AR
714	*a 57542W	Ring, Snap	1	742	55434W	O-Ring	2
715	250379W	Shaft	1	743	221725W	Nut	4
716	12940W	Ring, Snap	1	744	221721W	Nut	4
717	*a 2300554W	Housing, Gear	1	745	221695W	Capcrew	4
718	165338W	Gear	1	746	*a 15290W	Plug	1
719	30145W	Cone, Roller Bearing	2	747	200454W	Capcrew	2
720	90937W	O-Ring	1	748	15158W	Lockwasher	2
721	241441W	Carrier, Bearing	1	749	*a 241442W	Carrier, Bearing	1
722	30068W	Cup, Roller Bearing	2	750	*a 295752W	Capcrew, Sealing	3
723	96020W	Gear	1	751	210849W	Hose	1
724	21043W	Locknut	2	800	2313523	Bracket, Mounting - RH Side	1
725	21042W	Lockwasher	1	801	2313522	Bracket, Mounting - LH Side	1
726	*a YK-227	O-Ring	1				
727	*a 58939W	Ring, Snap	1		*a	Included in 2301476W Gearbox Assembly	

### Gear Box

Komatsu D65A-6, D65E-6, D65E-7 (K42), and D65S-6 (K43)

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**Gear Box**

Komatsu D65A-6, D65E-6, D65E-7 (K42), and D65S-6 (K43)

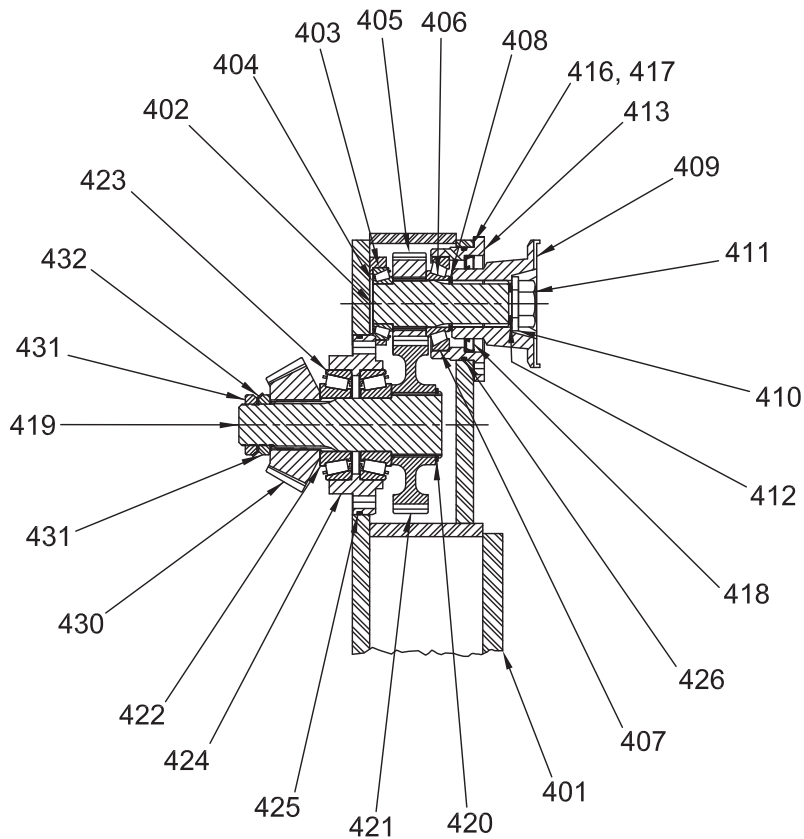
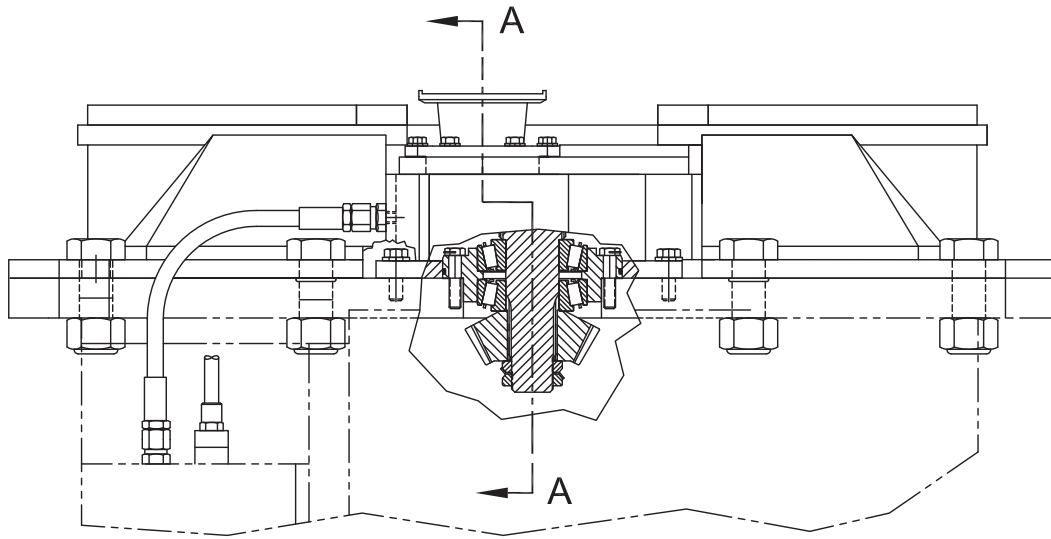
Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	*c 347019W	Adapter	1	24	*c 242826W	Shim .007	AR
2	*c 165338W	Gear	1	25	*c 241442W	Carrier, Bearing	1
3	169671W	Capscrew	6	26	*c 156223W	Seal, Oil	1
3	67355W	Wire	AR	27	*c 159906W	Yoke	1
4	*c 241441W	Bearing, Carrier	1	28	*c 332225W	Washer	1
5	*c 30145W	Cone, Bearing	2	29	*c 331774W	O-Ring	1
6	*c 21043W	Locknut	2	30	*c 222679W	Locknut	1
7	*c 250379W	Shaft	1	31	*c 203533	O-Ring	1
8	*c 21042W	Lockwasher	1	32	*c 16828W	Capscrew	6
9	*c 96020W	Gear, Bevel	1	32	*c 15156W	Lockwasher	6
10	*c 30068W	Cup, Bearing	2	33	*c 12940W	Ring, Snap	1
11	134078W	Shim .005	AR	34	250490W	Shaft	1
11	134079W	Shim .007	AR	34	261677W	. Spider/Bearing	2
12	*c 90937W	O-Ring	1	34	53038W	. Capscrew	8
13	*c 332231W	Shaft	1	34	261676W	. Yoke, Slip	1
14	*c 230427W	Cone, Bearing	1	34	NSS	. Propeller Shaft	1
15	*c 230426W	Cup, Bearing	1	34	*b 2300015W	Shaft	1
16	*c 240175W	Pinion	1	34	*b 2301006W	. Spider/Bearing	2
17	*c 30055W	Cup, Bearing	1	34	*b 221507W	. Capscrew	8
18	*c 225094W	Fitting	1	34	*b 2301008W	. Yoke, Slip	1
19	17059W	Fitting	1	34	*b NSS	. Propeller Shaft	1
20	*c 210849W	Hose	1	35	*a 221507W	Capscrew	8
21	226459W	Washer	1	36	254375W	Yoke, Spline	1
21	226458W	Capscrew	1				
21	15160W	Lockwasher	1		*a	Use 230064W Loctite Kit	
22	*c 30279W	Bearing	1		*b	First Used on S/N AW6F-2210	
23	*c 36150W	Ring, Snap	1		*c	Contained in Gearbox Assembly 250385W	
24	*c 242825W	Shim .005	AR				

### Gear Box

Komatsu D65E-8 and D68-1 (K45)

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SECTION A-A

**Gear Box**

Komatsu D65E-8 and D68E-1 (K45)

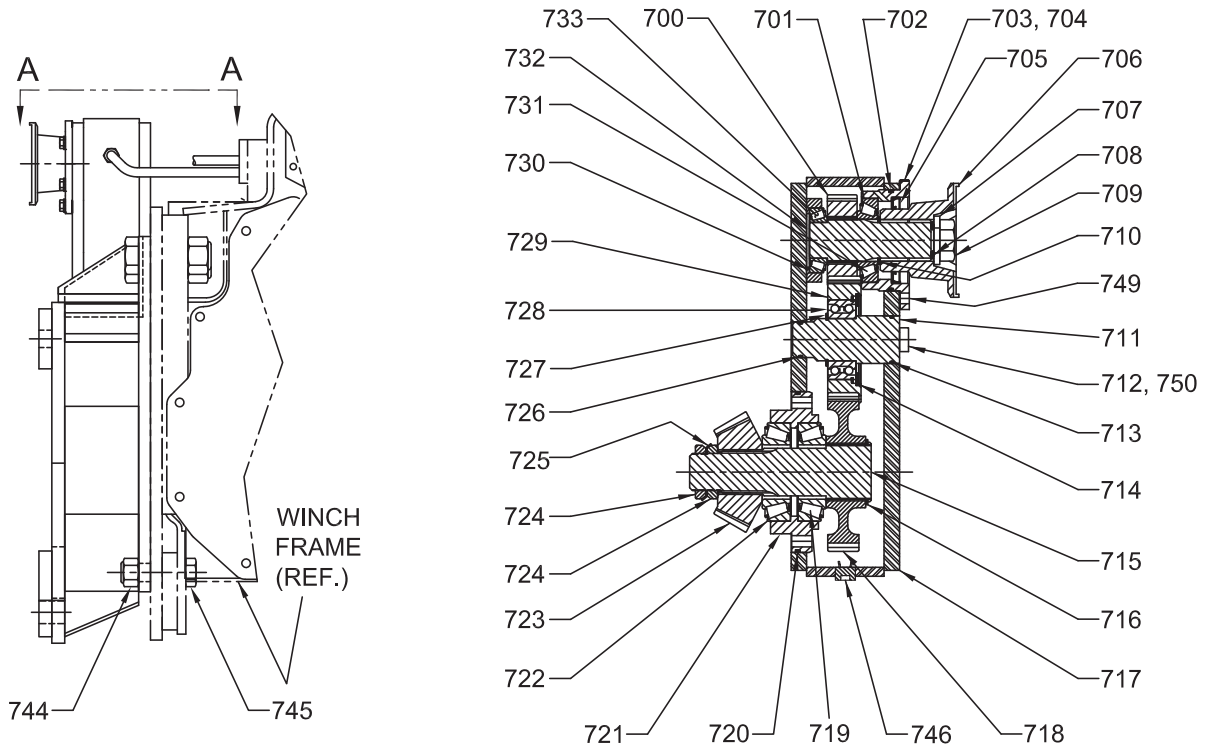
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Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
401	347019W	Adapter	1	417	242825W	Shim .005	4
402	332231W	Shaft	1	418	156223W	Seal, Oil	1
403	230426W	Cup, Bearing	1	419	250379W	Shaft	1
404	230427W	Cone, Bearing	1	420	12940W	Ring, Snap	1
405	240175W	Pinion, 21T	1	421	165338W	Gear, 38T	1
406	30279W	Cone, Bearing	1	422	30145W	Cone, Bearing	2
407	30055W	Cup, Bearing	1	423	30068W	Cup, Bearing	2
408	36150W	Ring, Snap	1	424	241441W	Carrier, Bearing	1
409	159906W	Yoke	1	425	90937W	O-Ring	1
410	332225W	Washer	1	426	203533	O-Ring	1
411	222679W	Nut	1	430	96020W	Gear, Bevel	1
412	331774W	O-Ring	1	431	21043W	Locknut	2
413	241442W	Carrier, Bearing	1	432	21042W	Lockwasher	1
416	242826W	Shim .007	3				

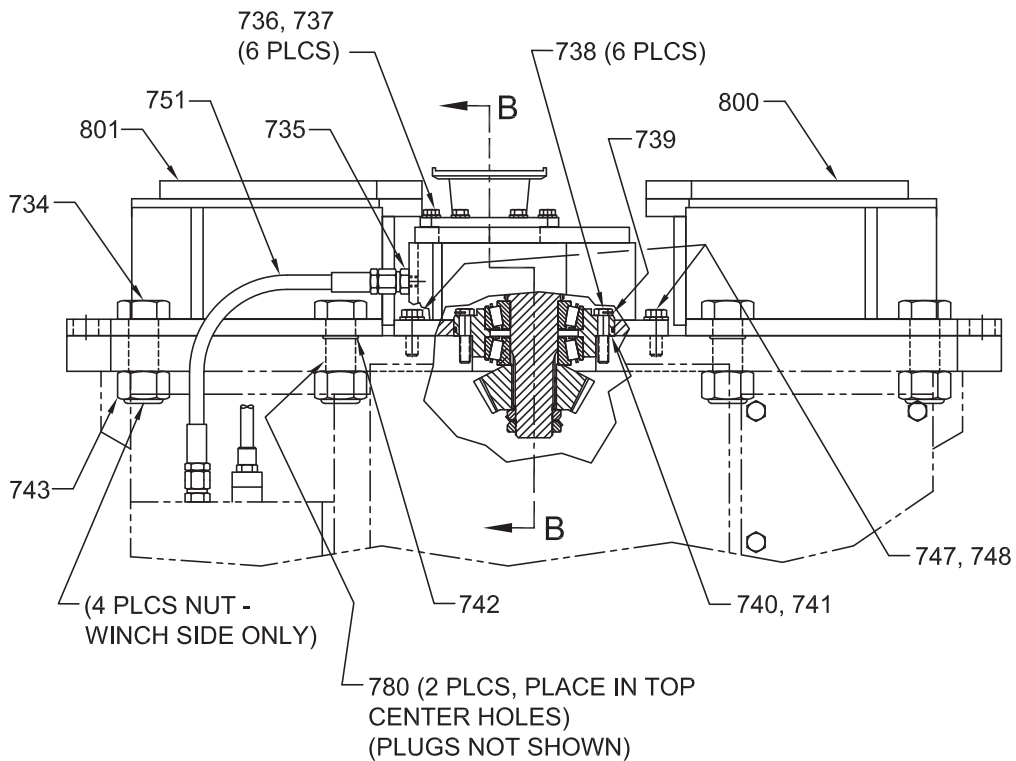
**Gear Box**

Komatsu D65EX-12 (K46)

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SECTION B-B



VIEW A-A

## Gear Box

Komatsu D65EX-12 (K46)

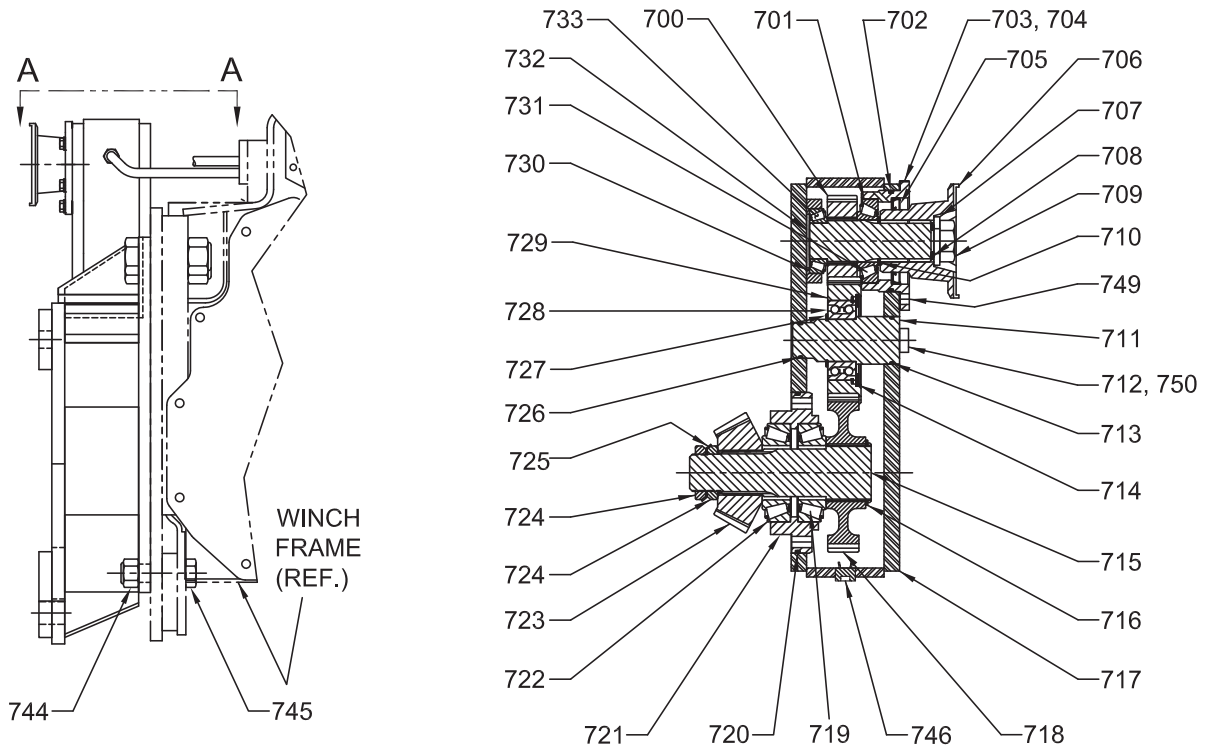
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Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
700	*a 240175W	Pinion	1	728	*a 295754W	Bearing	1
701	*a 30055W	Cup, Roller Bearing	1	729	*a 308404W	Gear	1
702	*a 203533	O-Ring	1	730	*a 230426W	Cup, Roller Bearing	1
703	*a 242825W	Shim .005	AR	731	*a 30279W	Cone, Roller Bearing	1
704	*a 242826W	Shim .007	AR	732	*a 332231W	Shaft	1
705	*a 156223W	Seal, Oil	1	733	*a 230427W	Cone, Roller Bearing	1
706	*a 159906W	Yoke	1	734	17882W	Cap screw	4
707	*a 332225W	Washer	1	735	225094W	Fitting	1
708	*a 331774W	O-Ring	1	736	*a 179443W	Cap screw, Sealing	6
709	*a 222679W	Nut	1	737	*a 15156W	Washer	6
710	*a 36150W	Ring, Snap	1	738	169671W	Cap screw	6
711	*a 2300567W	Shaft	1	739	67355W	Lockwire	1
712	*a 294938W	Keeper	1	740	134078W	Shim .005	AR
713	*a 39387W	O-Ring	1	741	134079W	Shim .007	AR
714	*a 57542W	Ring, Snap	1	742	55434W	O-Ring	2
715	250379W	Shaft	1	743	221725W	Nut	4
716	12940W	Ring, Snap	1	744	221721W	Nut	4
717	*a 2300554W	Housing, Gear	1	745	221695W	Cap screw	4
718	165338W	Gear	1	746	*a 15290W	Plug	1
719	30145W	Cone, Roller Bearing	2	747	200454W	Cap screw	2
720	90937W	O-Ring	1	748	15158W	Lockwasher	2
721	241441W	Carrier, Bearing	1	749	*a 241442W	Carrier, Bearing	1
722	30068W	Cup, Roller Bearing	2	750	*a 295752W	Cap screw, Sealing	3
723	96020W	Gear	1	751	210849W	Hose	1
724	21043W	Locknut	2	800	2313523	Bracket, Mounting - RH Side	1
725	21042W	Lockwasher	1	801	2313522	Bracket, Mounting - LH Side	1
726	*a YK-227	O-Ring	1				
727	*a 58939W	Ring, Snap	1		*a	Included in 2301476W Gearbox Assembly	

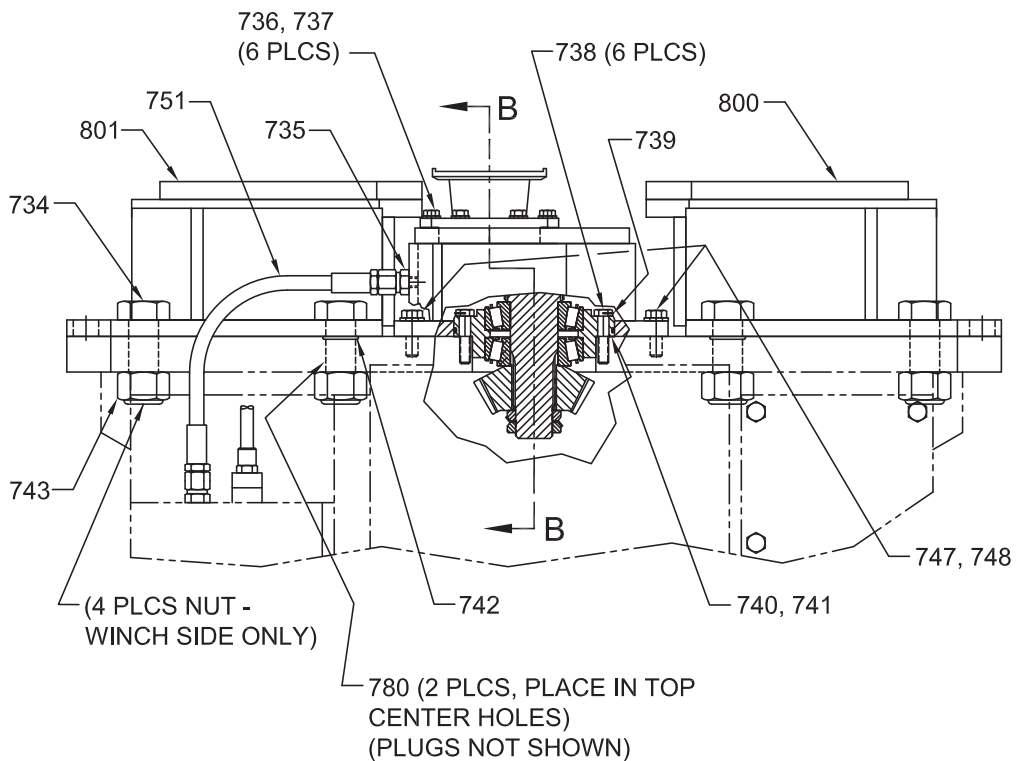
**Gear Box**

Shantui SD16 (U46)

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**SECTION B-B**



**VIEW A-A**

## Gear Box

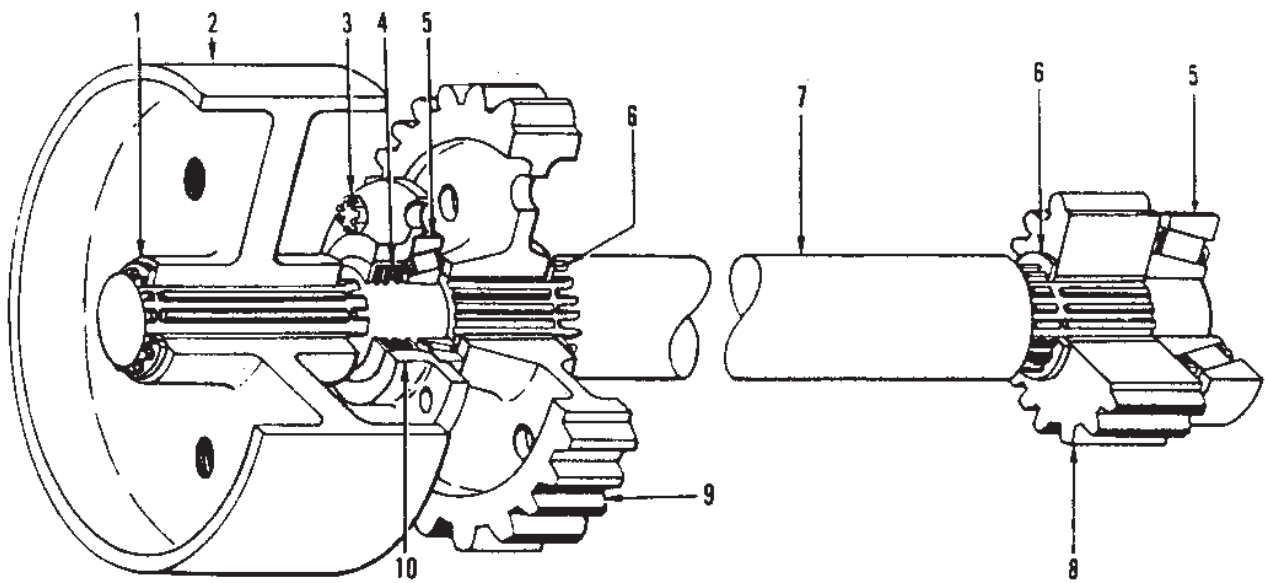
Shantui SD16 (U46)  
Page 1 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
700	*a 240175W	Pinion	1	728	*a 295754W	Bearing	1
701	*a 30055W	Cup, Roller Bearing	1	729	*a 308404W	Gear	1
702	*a 203533	O-Ring	1	730	*a 230426W	Cup, Roller Bearing	1
703	*a 242825W	Shim .005	AR	731	*a 30279W	Cone, Roller Bearing	1
704	*a 242826W	Shim .007	AR	732	*a 332231W	Shaft	1
705	*a 156223W	Seal, Oil	1	733	*a 230427W	Cone, Roller Bearing	1
706	*a 159906W	Yoke	1	734	17882W	Capscrew	4
707	*a 332225W	Washer	1	735	225094W	Fitting	1
708	*a 331774W	O-Ring	1	736	*a 179443W	Capscrew, Sealing	6
709	*a 222679W	Nut	1	737	*a 15156W	Washer	6
710	*a 36150W	Ring, Snap	1	738	169671W	Capscrew	6
711	*a 2300567W	Shaft	1	739	67355W	Lockwire	1
712	*a 294938W	Keeper	1	740	134078W	Shim .005	AR
713	*a 39387W	O-Ring	1	741	134079W	Shim .007	AR
714	*a 57542W	Ring, Snap	1	742	55434W	O-Ring	2
715	250379W	Shaft	1	743	221725W	Nut	4
716	12940W	Ring, Snap	1	744	221721W	Nut	4
717	*a 2300554W	Housing, Gear	1	745	221695W	Capscrew	4
718	165338W	Gear	1	746	*a 15290W	Plug	1
719	30145W	Cone, Roller Bearing	2	747	200454W	Capscrew	2
720	90937W	O-Ring	1	748	15158W	Lockwasher	2
721	241441W	Carrier, Bearing	1	749	*a 241442W	Carrier, Bearing	1
722	30068W	Cup, Roller Bearing	2	750	*a 295752W	Capscrew, Sealing	3
723	96020W	Gear	1	751	210849W	Hose	1
724	21043W	Locknut	2	800	2313523	Bracket, Mounting - RH Side	1
725	21042W	Lockwasher	1	801	2313522	Bracket, Mounting - LH Side	1
726	*a YK-227	O-Ring	1				
727	*a 58939W	Ring, Snap	1		*a	Included in 2301476W Gearbox Assembly	

### Brake Shaft

Direct Drive

Last Used on S/N W6FX-7143



Recommended Service Kit		
Item	Kit No.	Section
5	2311722	5-1
10 (92649W)	201871W	5-1

**Key**

A - Gear Ratios: 45.1:1 & 64.9:1 (Gear Codes 1 & 3)

B - Gear Ratios: 56.4:1 & 81.0:1 (Gear Codes 2 & 4)

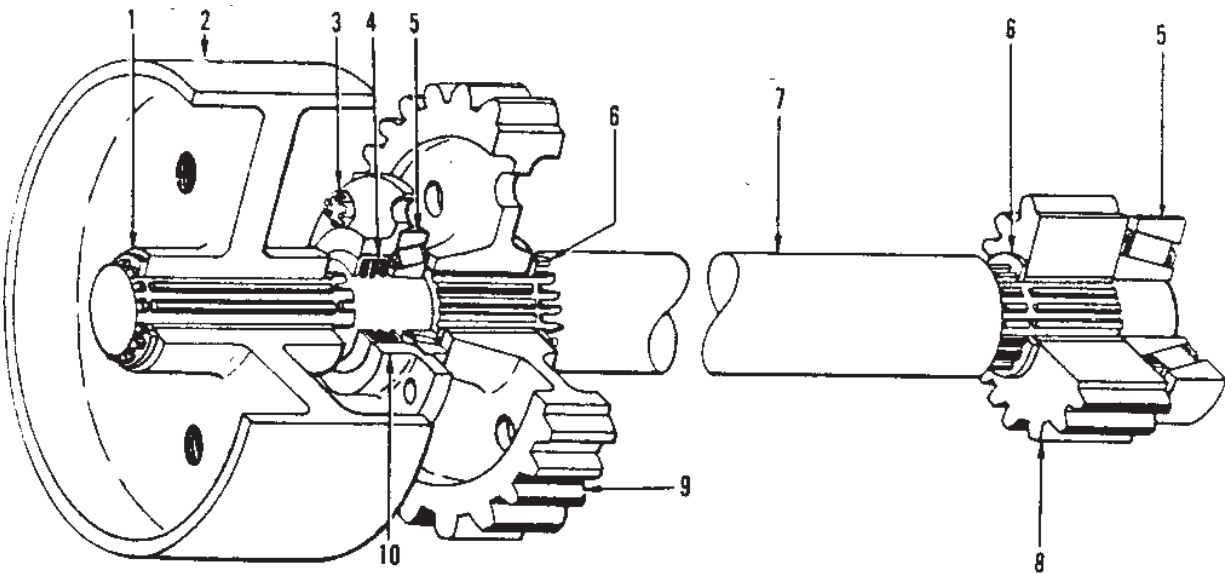
Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	58954W	Ring, Snap	1	1	6	12915W	Ring, Snap	2	2
2	2300056W	Wheel, Brake	1	1	7	95968W	Shaft, Brake	1	1
3	16830W	Capscrew	6	6	8	96023W	Gear, 20 T	1	--
3	15158W	Lockwasher	6	6	8	96030W	Gear, 17 T	--	1
4	1310823W	Seal-Oil	1	1	9	95969W	Gear, 51 T	1	1
5	230311W	Cup, Bearing	2	2	10	89727W	Retainer	1	1
5	230310W	Cone, Bearing	2	2	10	92649W	Gasket	1	1



# Brake Shaft

Direct Drive

First Used on S/N W6FX-7144 and Up, and on S/N AW6FX-1001



Recommended Service Kit		
Item	Kit No.	Section
1, 4, 6, 10 (92649W)	2311721	5-1
5	2311722	5-1
10 (92649W)	201871W	5-1

**Key**

A - Gear Ratios: 45.1:1 & 85.2:1 (Gear Codes 1 & 8)

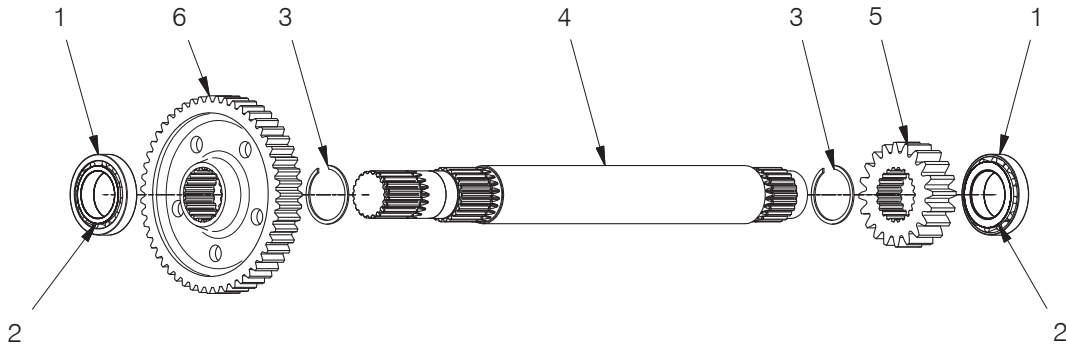
B - Gear Ratios: 56.4:1 & 106.4:1 (Gear Codes 2 & 6)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	58954W	Ring, Snap	1	1	6	12915W	Ring, Snap	2	2
2	2300056W	Wheel, Brake	1	1	7	95968W	Shaft, Brake	1	1
3	16830W	Capscrew	6	6	8	96023W	Gear, 20 T	1	--
3	15158W	Lockwasher	6	6	8	96030W	Gear, 17 T	--	1
4	1310823W	Seal, Oil	1	1	9	95969W	Gear, 51 T	1	1
5	230311W	Cup, Bearing	2	2	10	89727W	Retainer	1	1
5	230310W	Cone, Bearing	2	2	10	92649W	Gasket	1	1

# Brake Shaft

Power Control

Last Used on S/N W6FP-7143



**Key**

A - Gear Ratios: 45.1:1 & 64.9:1 (Gear Codes 1 & 3)

B - Gear Ratios: 56.4:1, 81.0:1, and 106.4:1 (Gear Codes 2, 4 & 6)

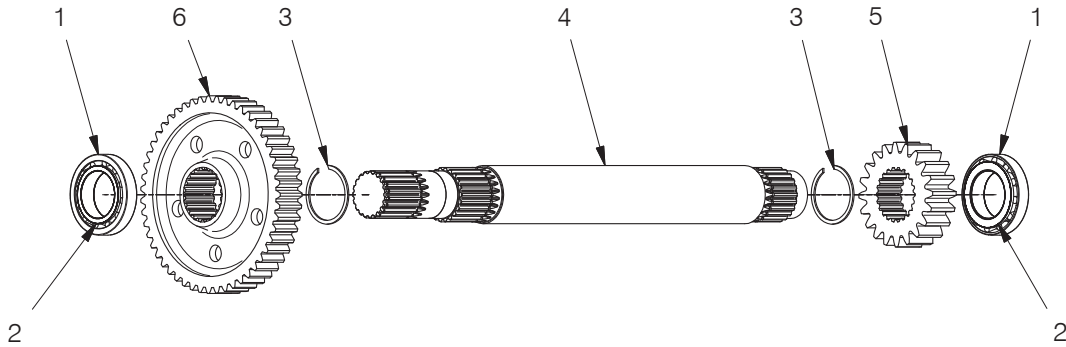
Recommended Service Kit		
Item	Kit No.	Section
1, 2	2311379	5-1

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	230311W	Cup, Bearing	2	2	5	96023W	Gear, 20 T	1	--
2	230310W	Cone, Bearing	2	2	5	96030W	Gear, 17 T	--	1
3	12915W	Ring, Snap	2	2	6	95969W	Gear, 51 T	1	1
4	225273W	Shaft, Brake	1	1					

# Brake Shaft

Power Control

First Used on S/N W6FP-7144 and Up, and on S/N AW6FP-1001



**Key**

- A - Gear Ratios: 45.1:1 and 85.2:1 (Gear Codes 1 & 8)
- B - Gear Ratios: 56.4:1 and 106.4:1 (Gear Codes 2 & 6)
- C - Gear Ratio: 55.6:1 (Gear Code 9)

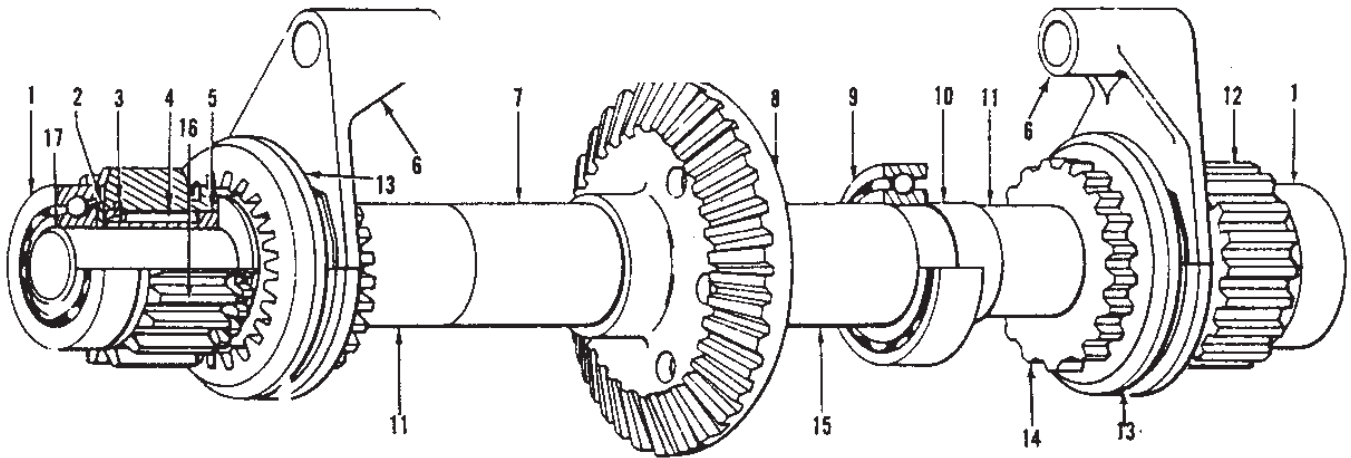
Recommended Service Kit		
Item	Kit No.	Section
3	2311378	5-1
1, 2	2311379	5-1

Item	Part No.	Description	Qty			Item	Part No.	Description	Qty		
			A	B	C				A	B	C
1	230311W	Cup, Bearing	2	2	2	5	96023W	Gear, 20T	1	--	--
2	230310W	Cone, Bearing	2	2	2	5	96030W	Gear, 17T	--	1	1
3	12915W	Ring, Snap	2	2	2	6	95969W	Gear, 51T	1	1	--
4	225273W	Shaft, Brake	1	1	1	6	2302619W	Gear, 40T	--	--	1

# Clutch Shaft / Bevel Gear

Direct Drive

Last Used on S/N W6FX-7143



**Key**

A - Gear Ratios: 45.1:1 & 64.9:1 (Gear Codes 1 & 3)

B - Gear Ratios: 56.4:1 & 81.0:1 (Gear Codes 2 & 4)

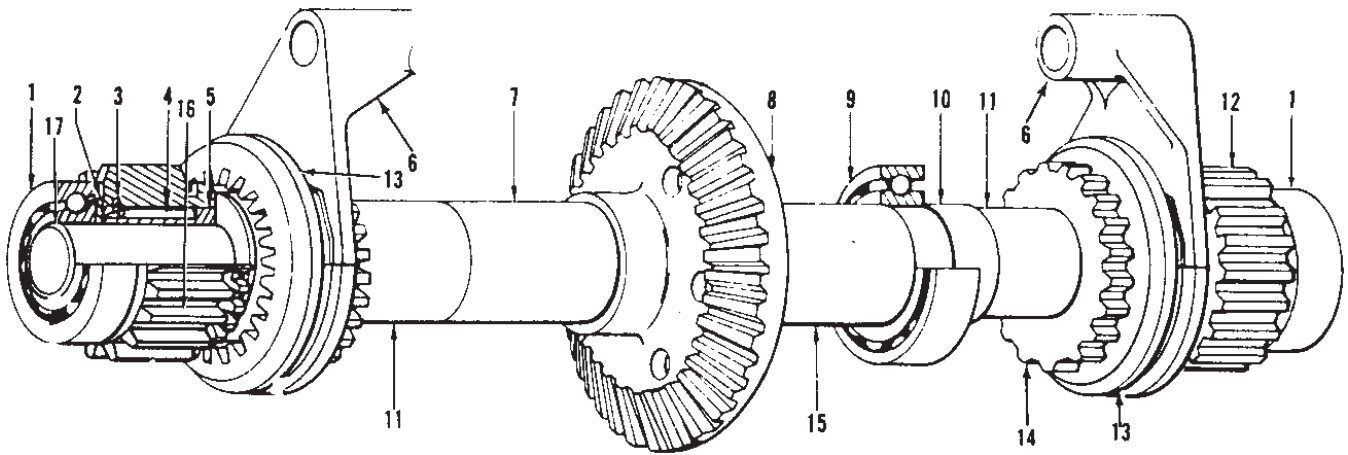
Recommended Service Kit		
Item	Kit No.	Section
3	2311721	5-1
1, 4, 9	2311722	5-1

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	230351W	Cup, Bearing	2	2	11	95947W	Spacer	2	2
1	230405W	Cone, Bearing	2	2	12	96022W	Gear, 20 T	1	--
2	174559W	Washer	2	2	12	96029W	Gear, 17 T	--	1
3	58938W	Ring, Snap	2	2	13	95946W	Clutch, Dental	2	2
4	230407W	Bearing, Roller	2	2	14	95945W	Hub	2	2
5	95961W	Carrier, Bearing	2	2	15	251733W	Spacer	1	1
6	-----	Linkage, Shifter (See 3-29)	2	2	16	95944W	Gear, 22 T	1	1
7	196376W	Spacer	1	1	17	95943W	Shaft	1	1
8	*a 96021W	Gear	1	1					
8	*b 96028W	Gear	1	--					
9	44316W	Bearing, Ball	1	1					
10	196378W	Carrier, Bearing	1	1					
					*a	45.1:1 and 56.4:1 Gear Ratio			
					*b	64.9:1 and 81.0:1 Gear Ratio			

# Clutch Shaft / Bevel Gear

Direct Drive

First Used on S/N W6FX-7144 and Up, and on S/N AW6FX-1001



**Key**

- A - Gear Ratio: 45.1:1 (Gear Code 1)
- B - Gear Ratio: 56.4:1 (Gear Code 2)
- C - Gear Ratio: 85.2:1 (Gear Code 8)
- D - Gear Ratio: 106.4:1 (Gear Code 6)

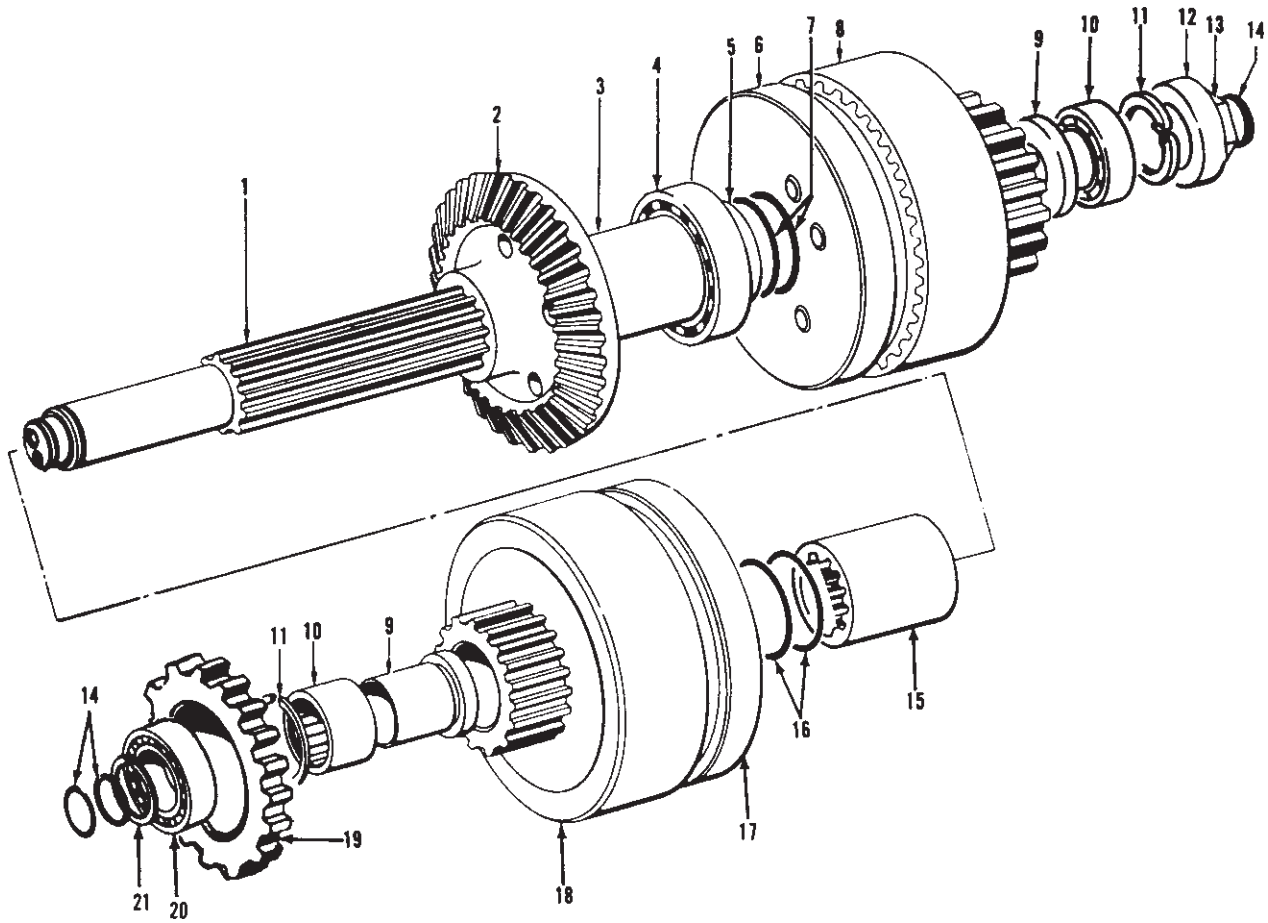
Recommended Service Kit		
Item	Kit No.	Section
3	2311721	5-1
1, 4, 9	2311722	5-1

Item	Part No.	Description	Qty				Item	Part No.	Description	Qty			
			A	B	C	D				A	B	C	D
1	230351W	Cup, Bearing	2	2	2	2	9	44316W	Bearing, Ball	1	1	1	1
1	230405W	Cone, Bearing	2	2	2	2	10	196378W	Carrier, Bearing	1	1	1	1
2	174559W	Washer	2	2	2	2	11	95947W	Spacer	2	2	2	2
3	58938W	Ring, Snap	2	2	2	2	12	96022W	Gear, 20 T	1	--	1	--
4	230407W	Bearing, Roller	2	2	2	2	12	96029W	Gear, 17 T	--	1	--	1
5	95961W	Carrier, Bearing	2	2	2	2	13	95946W	Clutch, Dental	2	2	2	2
6	-----	Linkage, Shifter (See 3-29)	2	2	2	2	14	95945W	Hub	2	2	2	2
7	196376W	Spacer	1	1	1	1	15	251733W	Spacer	1	1	1	1
8	96021W	Gear	1	1	--	--	16	95944W	Gear, 22 T	1	1	1	1
8	313883W	Gear	--	--	1	1	17	95943W	Shaft	1	1	1	1

### Clutch Shaft / Bevel Gear

Power Control

Last Used on S/N W6FP-7143



Recommended Service Kit		
Item	Kit No.	Section
4, 10, 12 (230351W & 230405W), 20	2311379	5-1

**Key**

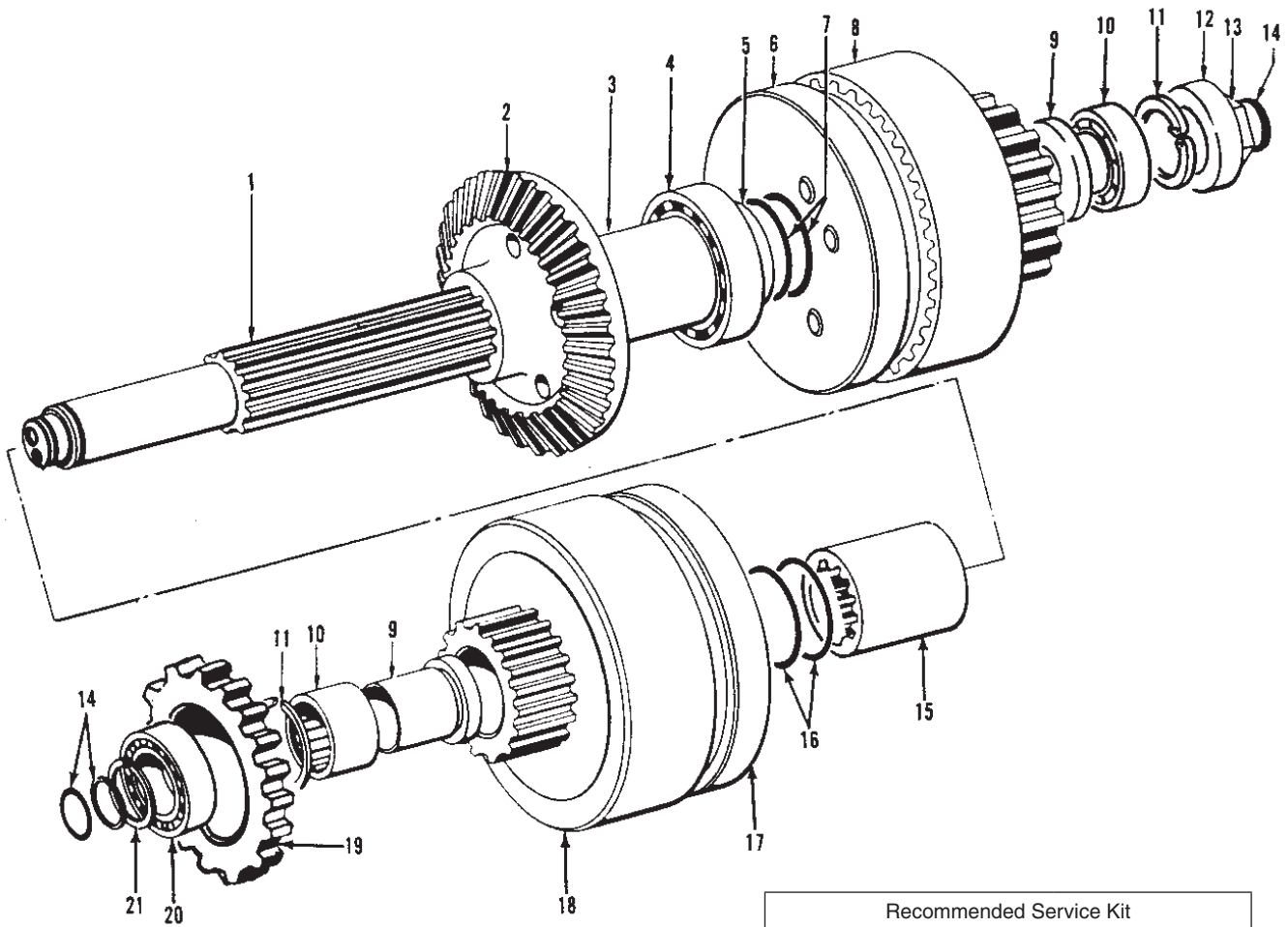
- A - Gear Ratios: 45.1:1 & 64.9:1 (Gear Codes 1 & 3)
- B - Gear Ratios: 56.4:1 & 81.0:1 (Gear Codes 2 & 4)
- C - Gear Ratio: 106.4:1 (Gear Code 6)

Item	Part No.	Description	Qty			Item	Part No.	Description	Qty		
			A	B	C				A	B	C
1	314849W	Shaft, Clutch	1	1	1	12	230405W	Cone, Bearing	1	1	1
1	268492W	. Fitting	2	2	2	12	174559W	Washer	1	1	1
2	313883W	Gear	--	--	1	13	21014W	Nut	1	1	1
2	*a 96021W	Gear	1	1	--	13	174561W	Lockwasher	1	1	1
2	*b 96028W	Gear	1	1	--	14	95581W	Ring, Seal	4	4	4
3	251733W	Spacer	1	1	1	15	196376W	Spacer	1	1	1
4	44316W	Bearing, Ball	1	1	1	16	108877W	O-Ring	2	2	2
5	196378W	Carrier, Bearing	1	1	1	17	-----	Clutch, Forward	1	1	1
6	-----	Clutch, Reverse	1	1	1	18	287942W	Gear, Forward	1	1	1
7	39674W	O-Ring	2	2	2	19	2302938W	Gear, Pump Drive	1	1	1
8	287947W	Gear, Reverse - 17 T	--	1	--	20	230351W	Cup, Bearing	1	1	1
8	287949W	Gear, Reverse - 20 T	1	--	1	20	225262W	Cone, Bearing	1	1	1
9	224791W	Carrier	2	2	2	21	35575W	Ring, Snap	1	1	1
10	230407W	Bearing, Roller	2	2	2						
11	58938W	Ring, Snap	2	2	2						
12	230351W	Cup, Bearing	1	1	1						
						*a	45.1:1 and 56.4:1 Gear Ratio				
						*b	64.9:1 and 81.0:1 Gear Ratio				

### Clutch Shaft / Bevel Gear

Power Control

First Used on S/N W6FP-7144 and Up, and on S/N AW6FP-1001



**Key**

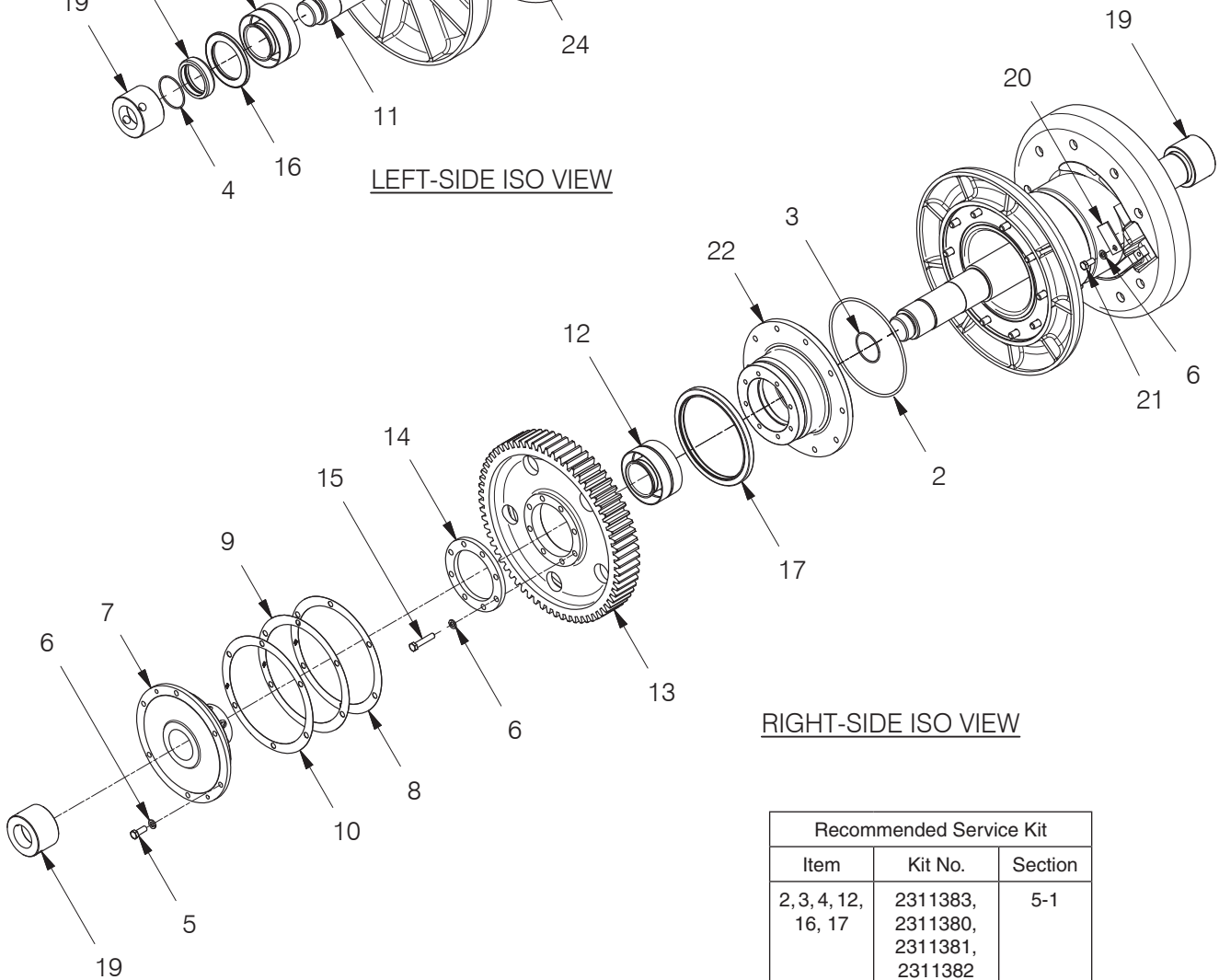
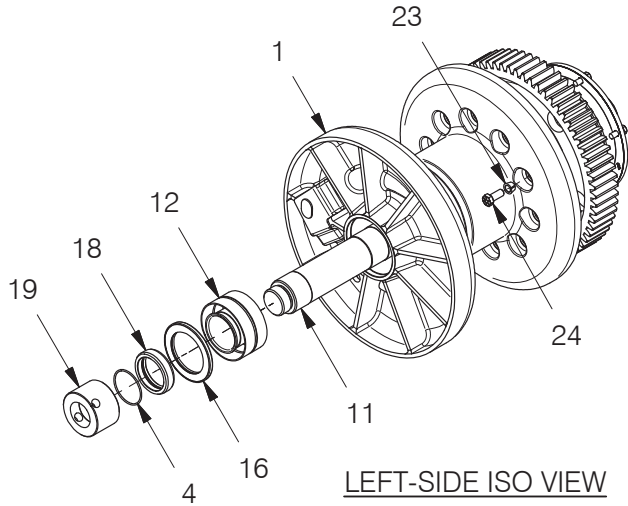
- A - Gear Ratio: 45.1:1 (Gear Code 1)
- B - Gear Ratio: 56.4:1 (Gear Code 2)
- C - Gear Ratio: 85.2:1 (Gear Code 8)
- D - Gear Ratio: 106.4:1 (Gear Code 6)
- E - Gear Ratio: 55.6:1 (Gear Code 9)

Recommended Service Kit		
Item	Kit No.	Section
7, 11, 13, 14, 16, 21	2311378	5-1
4, 10, 12 (230351W & 230405W), 20	2311379	5-1

Item	Part No.	Description	Qty					Item	Part No.	Description	Qty				
			A	B	C	D	E				A	B	C	D	E
1	314849W	Shaft, Clutch	1	1	1	1	1	12	230405W	Cone, Bearing	1	1	1	1	1
1	268492W	. Fitting	2	2	2	2	2	12	174559W	Washer	1	1	1	1	1
2	313883W	Gear	--	--	1	1	1	13	21014W	Nut	1	1	1	1	1
2	96021W	Gear	1	1	--	--	--	13	174561W	Lockwasher	1	1	1	1	1
3	251733W	Spacer	1	1	1	1	1	14	95581W	Ring, Seal	4	4	4	4	4
4	44316W	Bearing, Ball	1	1	1	1	1	15	196376W	Spacer	1	1	1	1	1
5	196378W	Carrier, Bearing	1	1	1	1	1	16	108877W	O-Ring	2	2	2	2	2
6	-----	Clutch, Rev (See 2-88)	1	1	1	1	1	17	-----	Clutch, Fwd (See 2-87)	1	1	1	1	1
7	39674W	O-Ring	2	2	2	2	2	18	287942W	Gear, Forward	1	1	1	1	--
8	287947W	Gear, Reverse - 17 T	--	1	--	1	1	18	2302618W	Gear, Forward	--	--	--	--	1
8	287949W	Gear, Reverse - 20 T	1	--	1	--	--	19	2302938W	Gear, Pump Drive	1	1	1	1	1
9	224791W	Carrier	2	2	2	2	2	20	230351W	Cup, Bearing	1	1	1	1	1
10	230407W	Bearing, Roller	2	2	2	2	2	20	225262W	Cone, Bearing	1	1	1	1	1
11	58938W	Ring, Snap	2	2	2	2	2	21	35575W	Ring, Snap	1	1	1	1	1
12	230351W	Cup, Bearing	1	1	1	1	1								

**Drum Shaft**

Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
2, 3, 4, 12, 16, 17	2311383, 2311380, 2311381, 2311382	5-1



## Drum Shaft

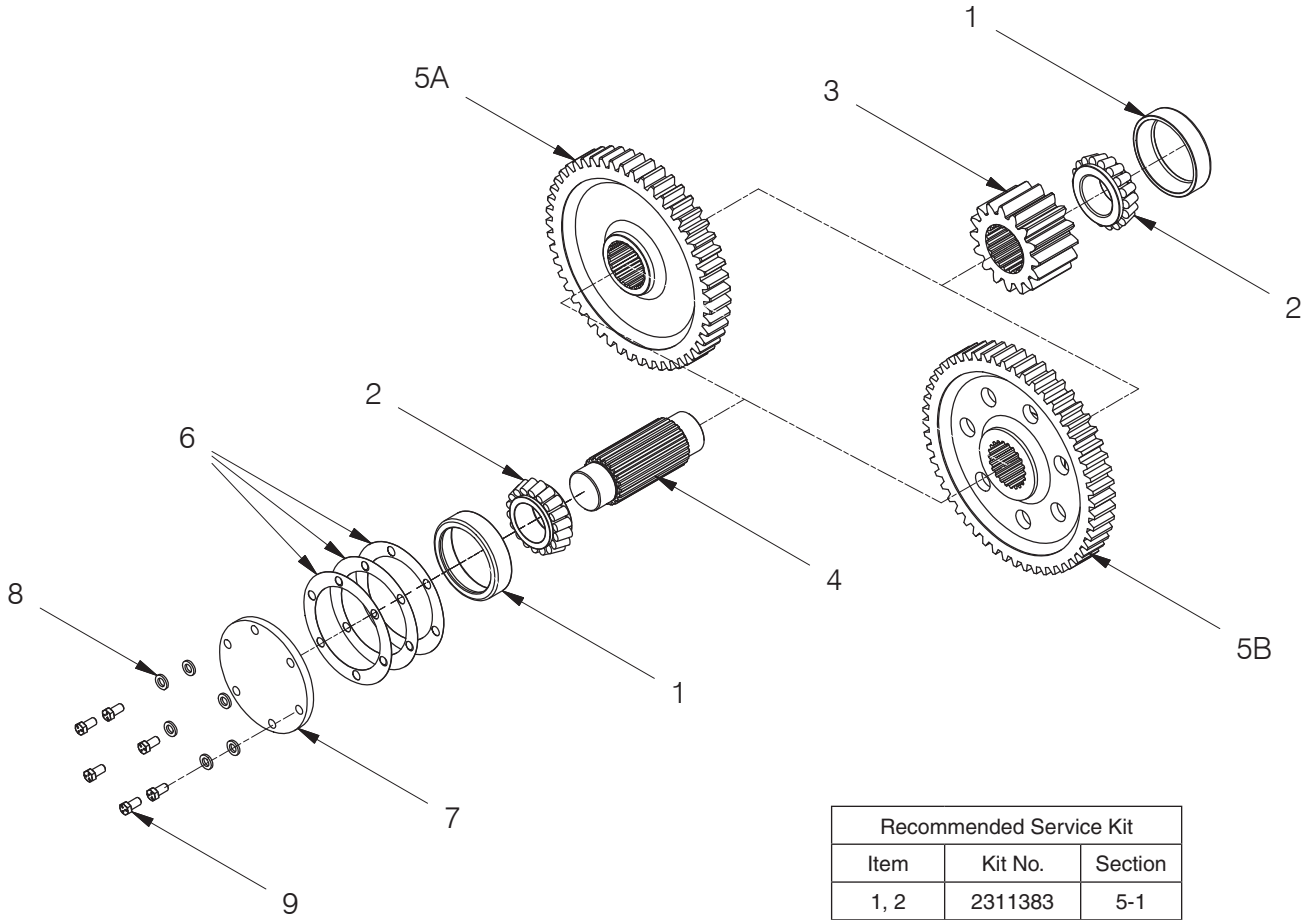
Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	141676W	Drum, 10" (Standard)	1	15	221577W	Capscrew	8
1	141679W	Drum, 7"	1	16	44547W	Seal, Oil	1
2	133927W	Ring, Piston Seal	1	17	141671W	Seal, Oil	1
3	90263W	O-Ring	1	18	*a 172808W	Spacer	1
4	15881W	O-Ring	1	19	*a 242831W	Nut, Drum Shaft (Round)	2
5	178402W	Capscrew	6	20	2301783W	Keeper, Ferrule	1
6	15158W	Washer	15	21	16829W	Capscrew	1
7	172810W	Retainer	1	22	141674W	Adapter	1
8	175646W	Shim .005	AR	23	53559W	Thimble	10
9	175647W	Shim .007	AR	24	*b 141675W	Capscrew	10
10	175648W	Shim .020	AR	24	*c 2310891	Capscrew	10
11	242838W	Shaft, Drum	1				
12	230406W	Assembly, Bearing	2		*a	Use 280472W Adhesive Sealant	
13	95977W	Gear, Drum	1		*b	Last Used on S/N AW6F-4939	
14	95978W	Plate, Retainer	1		*c	First Used on S/N AW6F-4940	

# Intermediate Gear Shaft

Without Freespool

Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
1, 2	2311383	5-1

**Intermediate Gear Shaft**

Without Freespool

Page 2 of 2

Key

A - Gear Ratios: 45.1:1, 64.9:1 and 85.2:1 (Gear Codes 1, 3 & 8)

B - Gear Ratios: 56.4:1, 81.0:1, 106.4:1 & 55.6:1 (Gear Codes 2, 4, 6 & 9)

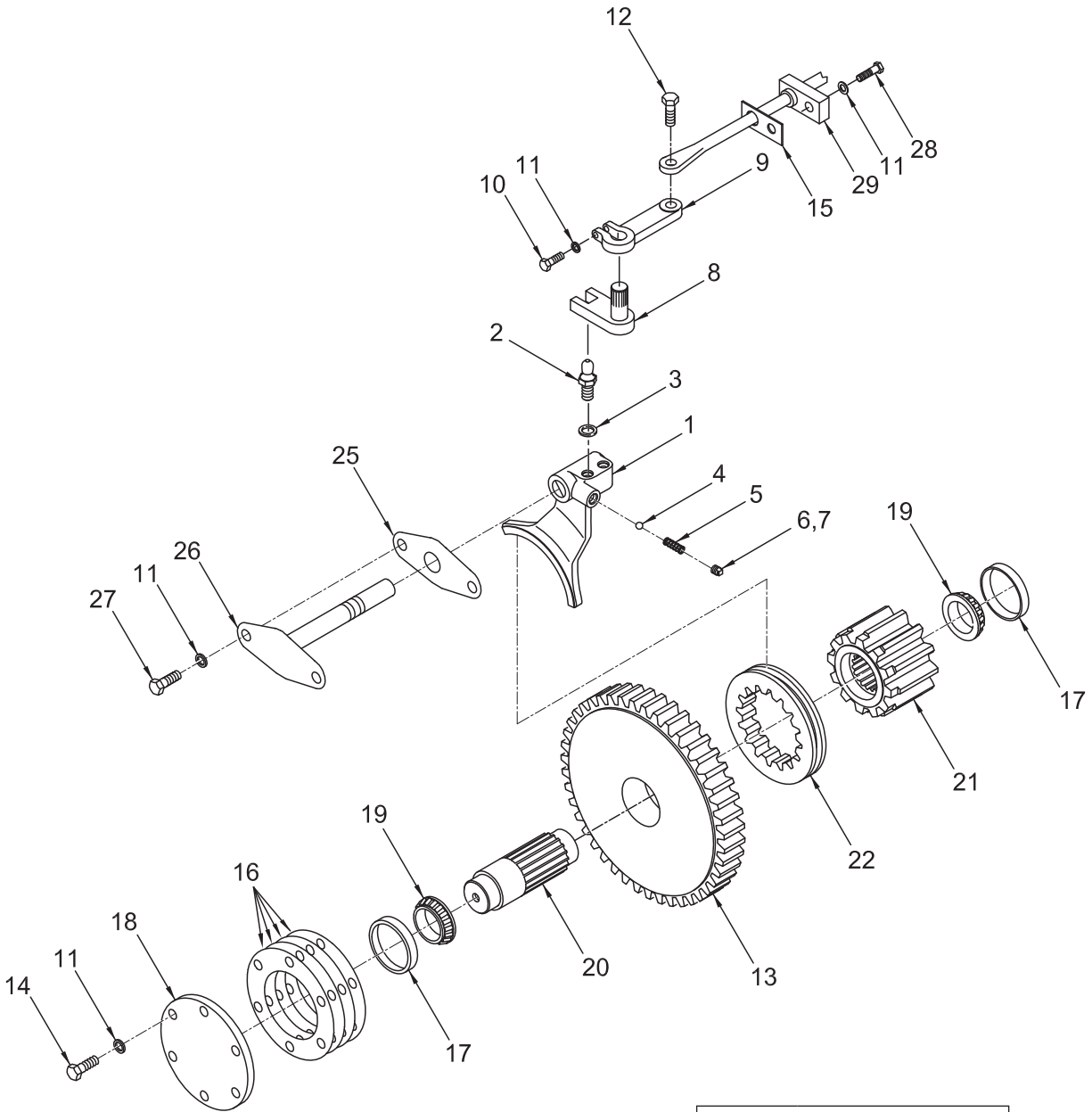
Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	30059W	Cup, Bearing	2	2	6	149541W	Shim .005	AR	AR
2	30080W	Cone, Bearing	2	2	6	149542W	Shim .007	AR	AR
3	95973W	Gear, 16 T	1	1	6	149543W	Shim .020	AR	AR
4	95972W	Shaft, Intermediate	1	1	7	280262W	Cover	1	1
5A	96024W	Gear, 49 T	1	--	8	15158W	Washer	6	6
5B	96031W	Gear, 52 T	--	1	9	174802W	Capscrew	6	6

# Intermediate Gear Shaft

With Freespool

Last Used on S/N W6F-2984

Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
15, 25	267494W	5-1
4, 17, 19	2311380	5-1

**Intermediate Gear Shaft**

With Freespool

Last Used on S/N W6F-2984

Page 2 of 2

Key

A - Gear Ratios: 45.1:1 64.9:1 & 85.2:1 (Gear Codes 1, 3 & 8)

B - Gear Ratios: 56.4:1, 81.0:1, 106.4:1 & 55.6:1 (Gear Codes 2, 4, 6 & 9)

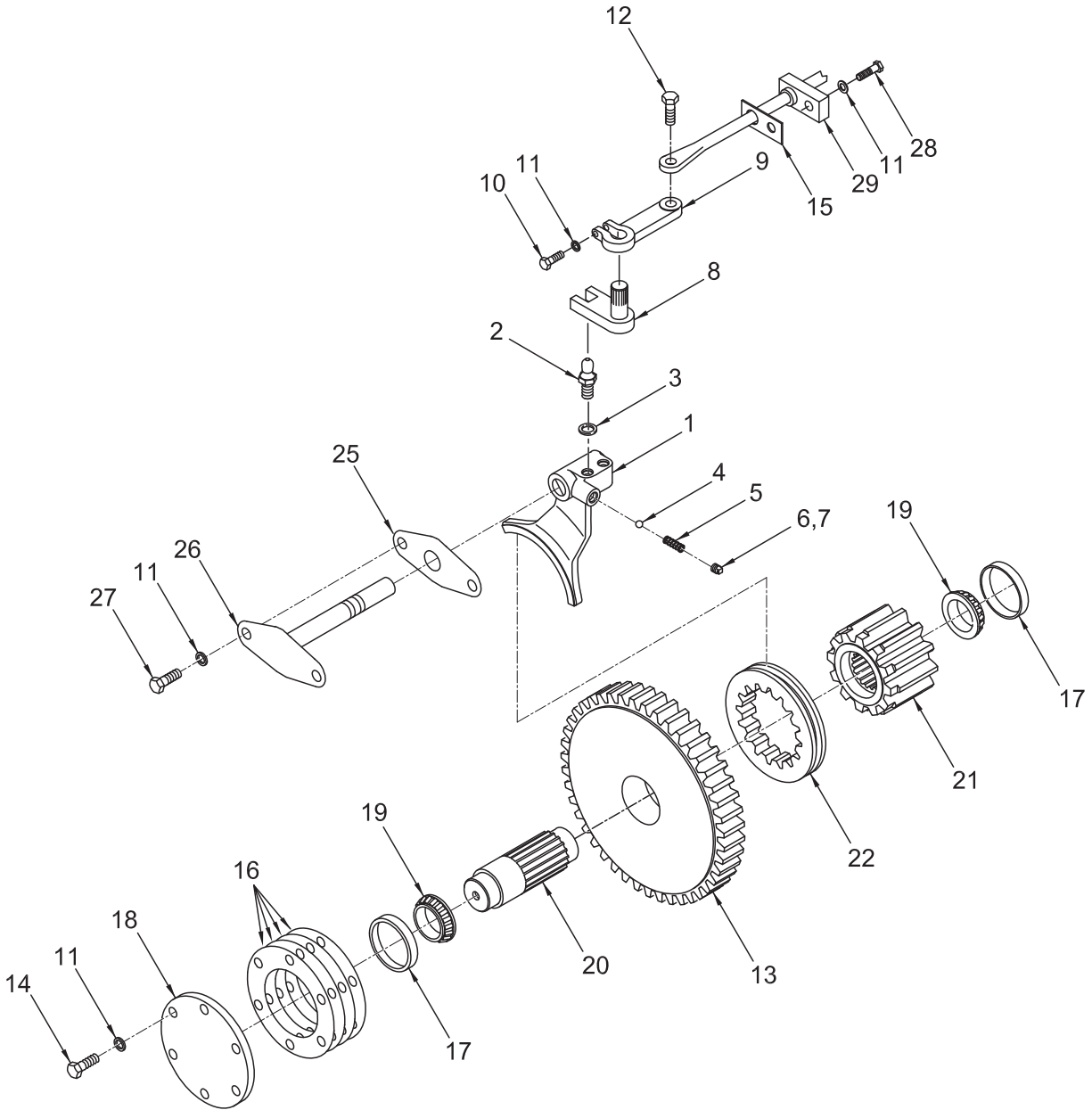
Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	151580W	Fork, Shifter	1	1	16	149541W	Shim .005	AR	AR
2	151583W	Stud, Ball	1	1	16	149542W	Shim .007	AR	AR
3	15906W	Washer	1	1	16	149543W	Shim .020	AR	AR
4	6348W	Ball	1	1	17	30059W	Cup, Bearing	2	2
5	280985W	Spring	1	1	18	280262W	Cover	1	1
6	46578W	Plug	1	1	19	30058W	Cone, Bearing	2	2
7	67355W	Lockwire	AR	AR	20	257605W	Shaft, Intermediate	1	1
8	151584W	Shaft, Crank	1	1	21	96043W	Gear, Pinion - 16T	1	1
9	203239W	Crank	1	1	22	151588W	Clutch	1	1
10	18588W	Capscrew	1	1	25	151646W	Gasket	1	1
11	15158W	Washer	9	9	26	151581W	Shaft	1	1
12	85749W	Bolt, Shoulder	1	1	27	178402W	Capscrew	2	2
13	96046W	Gear, 49T	1	--	28	16829W	Capscrew	1	1
13	96747W	Gear, 52T	--	1	29	*a -----	Cable, Freespool	1	1
14	174802W	Capscrew	6	6					
15	303946W	Gasket	1	1					
						*a	See Appropriate page in Section 3		

# Intermediate Gear Shaft

With Freespool

Used on S/N W6F-2985 thru S/N W6F-7143, and S/N AW6F-1001 thru S/N AW6F-4061

Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
15, 25	267494W	5-1
4, 17, 19	2311380	5-1

## Intermediate Gear Shaft

With Freespool

Used on S/N W6F-2985 thru S/N W6F-7143, and S/N AW6F-1001 thru S/N AW6F-4061

Page 2 of 2

Key

A - Gear Ratios: 45.1:1 64.9:1 & 85.2:1 (Gear Codes 1, 3 & 8)

B - Gear Ratios: 56.4:1, 81.0:1, 106.4:1 & 55.6:1 (Gear Codes 2, 4, 6 & 9)

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
1	151580W	Fork, Shifter	1	1	15	303946W	Gasket	1	1
2	151583W	Stud, Ball	1	1	16	149541W	Shim, .005"	AR	AR
3	15906W	Washer	1	1	16	149542W	Shim, .007"	AR	AR
4	6348W	Ball	1	1	16	149543W	Shim, .020"	AR	AR
5	280985W	Spring	1	1	17	30059W	Cup, Bearing	2	2
6	46578W	Plug	1	1	18	280262W	Cover	1	1
7	67355W	Lockwire	AR	AR	19	30058W	Cone, Bearing	2	2
8	151584W	Shaft, Crank	1	1	20	283427W	Shaft, Intermediate	1	1
9	203239W	Crank	1	1	21	282148W	Gear, Pinion - 16T	1	1
10	18588W	Capscrew	1	1	22	151588W	Clutch	1	1
11	15158W	Washer	9	9	25	151646W	Gasket	1	1
12	85749W	Bolt, Shoulder	1	1	26	151581W	Shaft	1	1
13	283434W	Gear, 49T	1	--	27	178402W	Capscrew	2	2
13	NSS	. Bushing	1	--	28	16829W	Capscrew	1	1
13	283433W	Gear, 52T	--	1	29	*a -----	Cable, Freespool	1	1
13	NSS	. Bushing	--	1					
14	174802W	Capscrew	6	6		*a	See Appropriate page in Section 3		

## Intermediate Gear Shaft

With Adjustable Freespool  
 First Used on S/N AW6F-4062

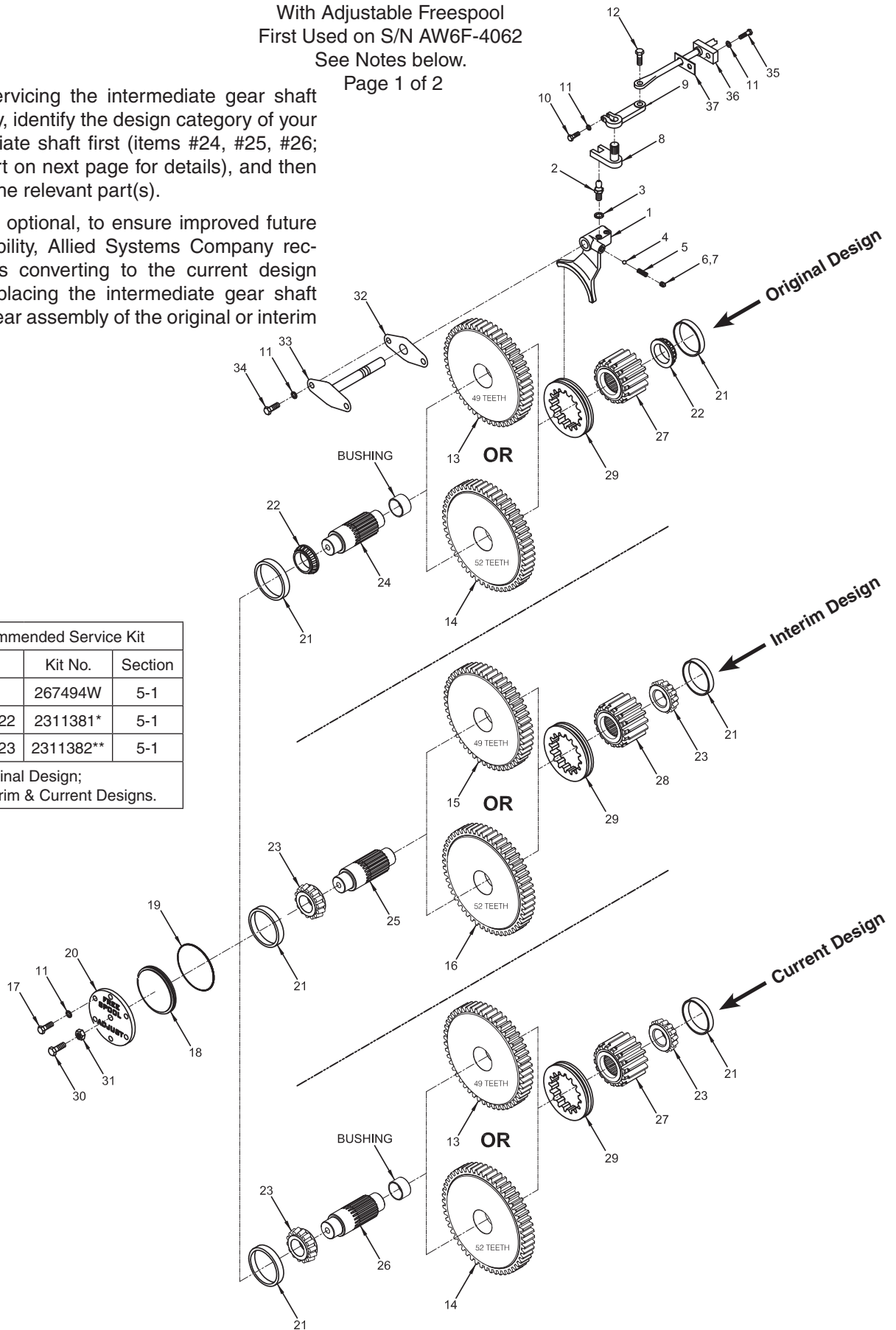
See Notes below.

Page 1 of 2

**Notes:**

1. When servicing the intermediate gear shaft assembly, identify the design category of your intermediate shaft first (items #24, #25, #26; See chart on next page for details), and then look up the relevant part(s).
2. Although optional, to ensure improved future serviceability, Allied Systems Company recommends converting to the current design when replacing the intermediate gear shaft and/or gear assembly of the original or interim designs.

Recommended Service Kit		
Item	Kit No.	Section
32, 37	267494W	5-1
4, 19, 21, 22	2311381*	5-1
4, 19, 21, 23	2311382**	5-1
* For Original Design;		
** For Interim & Current Designs.		





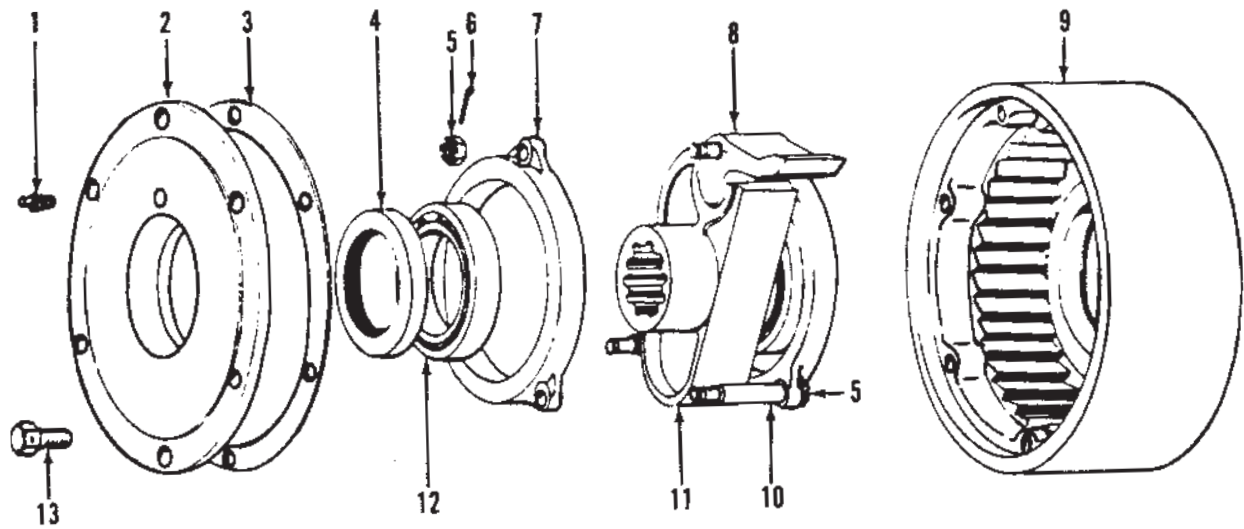
## Intermediate Gear Shaft

With Adjustable Freespool  
 First Used on S/N AW6F-4062  
 See Notes on the Previous Page.  
 Page 2 of 2

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty
1	151580W	Fork, Shifter	1		21	30059W	Cup, Bearing	2
2	151583W	Stud, Ball	1		22	30058W	Cone, Bearing	2
3	15906W	Washer	1		23	2302311W	Cone, Bearing	2
4	6348W	Ball	1		24	283427W	Shaft, Intermediate	1
5	280985W	Spring	1		25	2302310W	Shaft, Intermediate	1
6	46578W	Plug	1		26	2305956W	Shaft, Intermediate	1
7	67355W	Lockwire	AR		27	2312280	Gear, Pinion - 16T/21 Splines	1
8	151584W	Shaft, Crank	1		28	2302309W	Gear, Pinion - 16T/22 Splines	1
9	203239W	Crank	1		29	2312269	Clutch	1
10	18588W	Capscrew	1		30	221650W	Capscrew	1
11	15158W	Washer	10		31	221717W	Nut	1
12	85749W	Bolt, Shoulder	1		32	151646W	Gasket	1
13	283434W	Gear, 49T (with Bushing - NSS)	1		33	151581W	Shaft	1
14	283433W	Gear, 52T (with Bushing - NSS)	1		34	178402W	Capscrew	2
15	282724W	Gear, 49T	1		35	16829W	Capscrew	1
16	282149W	Gear, 52T	1		36	*a -----	Cable, Freespool	1
17	2302626W	Capscrew	6		37	303946W	Gasket	1
18	2302624W	Piston, Freespool Adjust	1					
19	159940W	O-Ring	1			*a	See Appropriate page in Section 3	
20	2302625W	Cover	1					

	Original Design	Interim Design	Current Design
<b>Intermediate Shaft</b>	<b>P/N 283427W</b> • 21 Teeth • 2.0" Diameter to Accept Bearing Cone	<b>P/N 2302310W</b> • 22 Teeth • 2.125" Diameter to Accept Bearing Cone	<b>P/N 2305956W</b> • 21 Teeth • 2.125" Diameter to Accept Bearing Cone

**Brake**  
Direct Drive



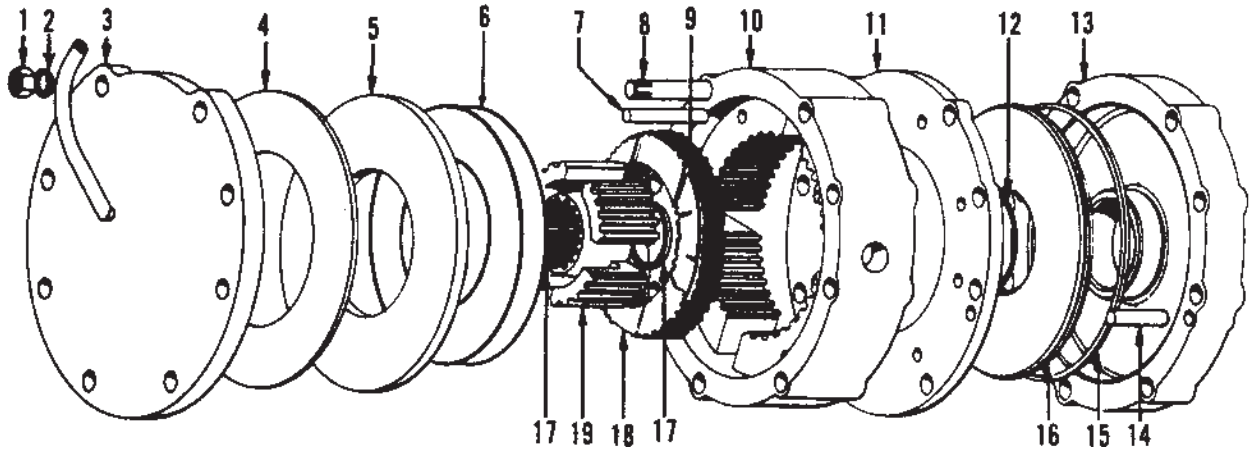
Recommended Service Kit		
Item	Kit No.	Section
3, 4, 12	2311721	5-1

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	46187W	. Plug, Vent	1	8	59393W	. Pawl	1
1	2301921W	. Fitting, Grease	1	9	59389W	. Wheel, Brake	1
2	59387W	. Cover	1	10	94599W	. Link, Shoulder	3
3	59396W	. Gasket	1	11	96039W	. Hub	1
4	59395W	. Seal, Oil	2	12	44313W	. Bearing, Ball	2
5	12430W	. Nut, Slotted	6	13	27259W	. Capscrew	6
6	15201W	. Pin, Cotter	6	13	67355W	. Wire	6
7	92945W	. Ring, Drag	2				

**Brake**

Power Control

Last Used on S/N W6FP-1688



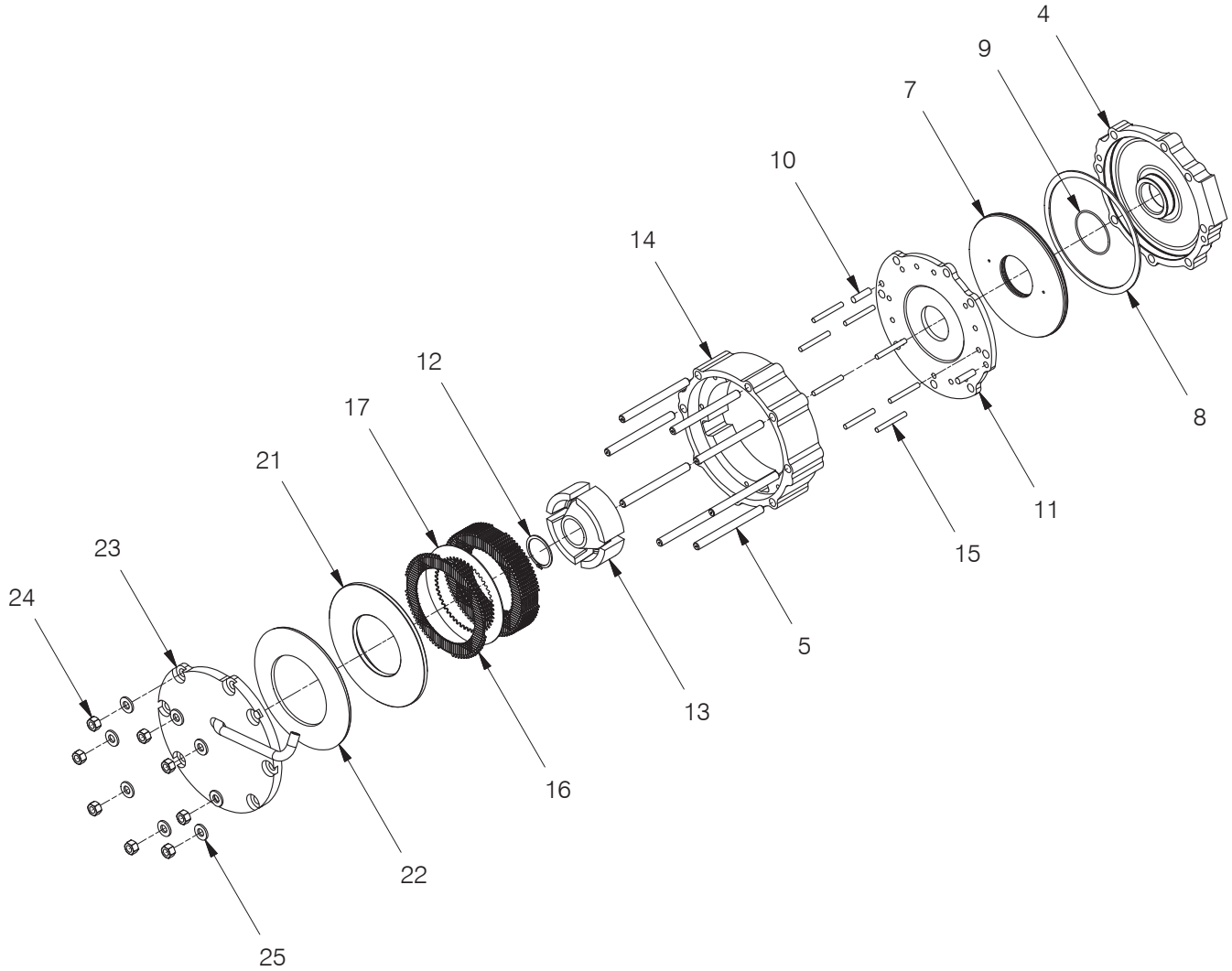
Recommended Service Kit		
Item	Kit No.	Section
12, 15, 17	2311377	5-1

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	199594W	Nut	8	11	252114W	Plate, Pressure	1
2	221775W	Washer	8	12	79979W	O-Ring	1
3	225269W	Cover, Brake	1	13	196025W	Housing, Piston	1
4	193912W	Spring	1	14	92867W	Pin, Dowel	2
5	133936W	Ring	1	15	133927W	Ring, Seal	1
6	252113W	Spacer	1	16	133926W	Piston	1
7	133931W	Pin	8	17	12940W	Ring, Snap	2
8	225272W	Stud	8	18	96464W	Plate, Separator	6
9	133917W	Disc, Friction	7	19	133929W	Hub	1
10	133930W	Cage	1				

**Brake**

Power Control

First Used on S/N W6FP-1689 and S/N AW6F-1001



Recommended Service Kit		
Item	Kit No.	Section
8, 9, 12, 16, 17	2311377	5-1

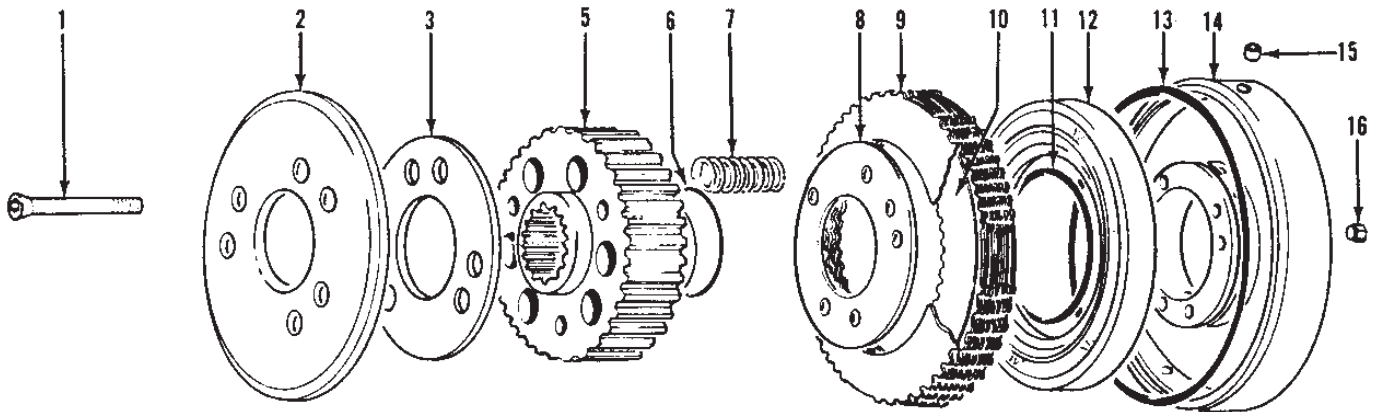
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
4	196025W	Housing, Piston	1	14	265402W	Cage	1
5	225272W	Stud	8	15	267522W	Pin, Thrust	8
7	133926W	Piston	1	16	328715W	Disc, Friction	10
8	133927W	Ring, Piston Seal	1	17	261542W	Plate, Separator	9
9	79979W	O-Ring	1	21	265401W	Ring	1
10	92867W	Pin, Dowel	2	22	193912W	Spring	1
11	252114W	Plate, Pressure	1	23	225269W	Cover, Brake	1
12	12940W	Ring, Snap	2	24	199594W	Nut	8
13	265403W	Hub, Brake	1	25	221775W	Washer	8

**Clutch**

Forward

Power Control

Last Used on S/N W6FP-1999



Parts Service Gram	
Item	Gram
10	Contact your dealer.
7, 9, 10, 14	Contact your dealer.

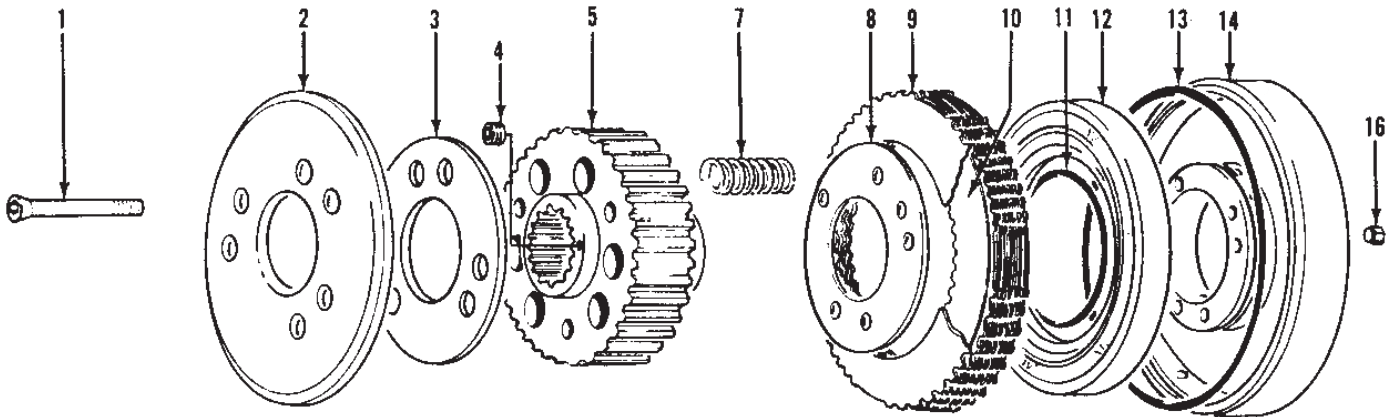
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	16373W	Capscrew	6	9	133917W	Disc, Friction	6
2	224794W	Plate, Clutch	1	10	96464W	Plate, Separator	6
3	224793W	Shim .031	AR	11	89777W	O-Ring	1
5	267506W	Hub Assembly, Forward Clutch	1	12	96462W	Piston	1
5	224788W	. Hub, Forward Clutch	1	13	79972W	O-Ring	1
5	19901W	. Pin, Slotted	1	14	224790W	Plate, Retainer	1
6	39370W	O-Ring	1	15	141348W	Plug, Pipe	1
7	257125W	Spring	6	16	196435W	Setscrew	6
8	96461W	Retainer, Spring	1				

**Clutch**

Reverse

Power Control

Last Used on S/N W6FP-1999



Parts Service Gram	
Item	Gram
10	Contact your dealer.
7, 9, 10, 14	Contact your dealer.

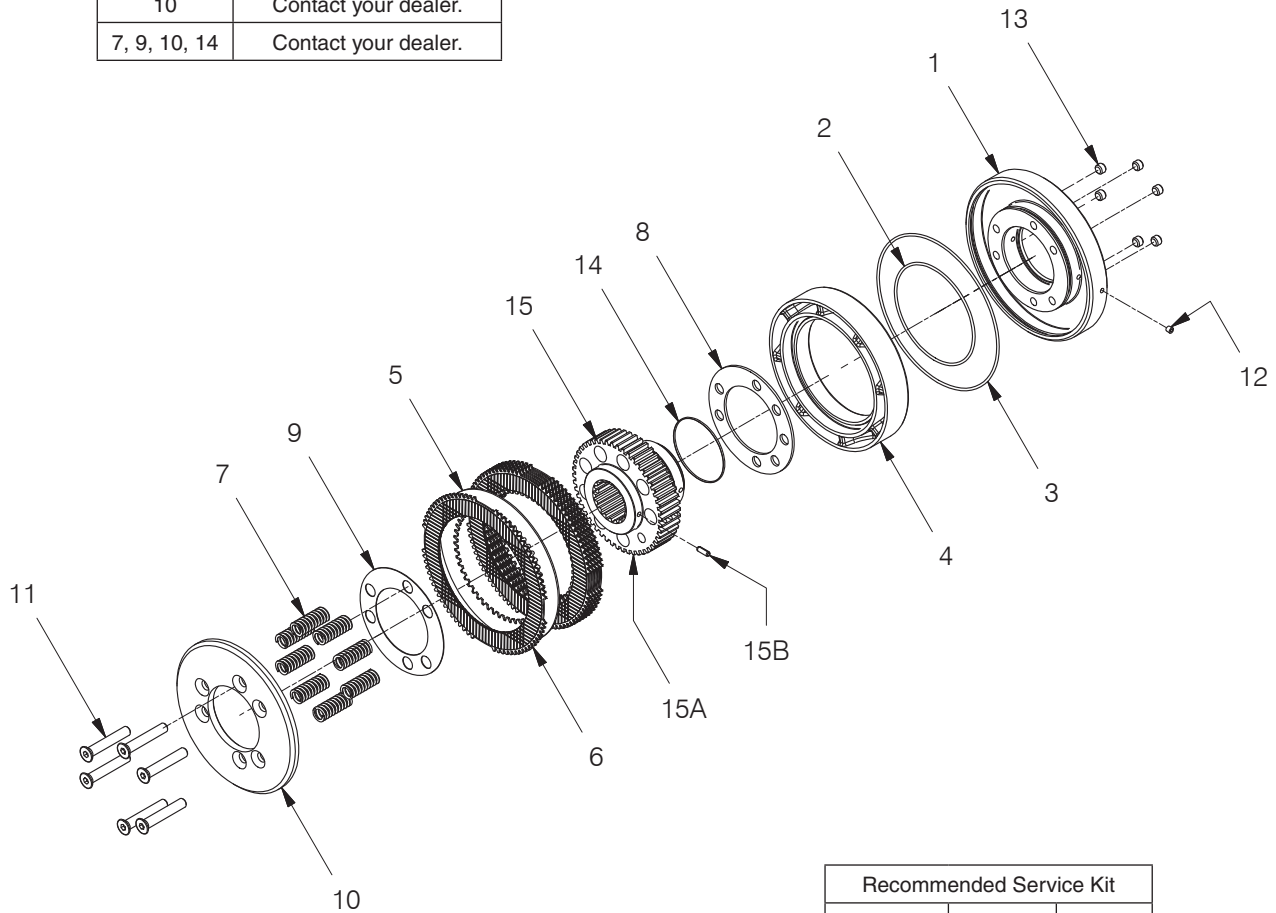
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	16373W	Capscrew	6	9	133917W	Disc, Friction	6
2	224794W	Plate, Clutch	1	10	96464W	Plate, Separator	6
3	224793W	Shim .031	AR	11	89777W	O-Ring	1
4	141348W	Plug, Pipe	2	12	96462W	Piston	1
5	224789W	Hub, Reverse Clutch	1	13	79972W	O-Ring	1
7	257125W	Spring	6	14	224790W	Plate, Retainer	1
8	96461W	Retainer, Spring	1	16	196435W	Setscrew	6

# Clutch

Forward  
Power Control

First Used on S/N W6FP-2000 and S/N AW6F-1001

Parts Service Gram	
Item	Gram
10	Contact your dealer.
7, 9, 10, 14	Contact your dealer.



Recommended Service Kit		
Item	Kit No.	Section
3, 6, 7, 9, 10, 11, 13	2311378	5-1

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>274904W</b>	<b>Clutch Assembly, Forward</b>	<b>1</b>				
1	224790W	. Plate, Retainer	1	11	16373W	. Capscrew	6
2	*a 89777W	. O-Ring	1	12	141348W	. Fitting	1
3	*a 79972W	. O-Ring	1	13	196435W	. Setscrew	6
4	96462W	. Piston, Clutch	1	14	*a 39370W	. O-Ring	1
5	*a 261542W	. Plate, Separator	6	15	274906W	. Assembly, Forward Clutch Hub	1
6	*a 328715W	. Disc, Friction	6	15A	265404W	. Hub, Forward Clutch	1
7	*a 265407W	. Spring	8	15B	19901W	. Pin	1
8	96461W	. Retainer, Spring	1				
9	*a 224793W	. Shim .031	AR	*a	Included in 2300544W Service Kit		
10	224794W	. Plate, Clutch	1				

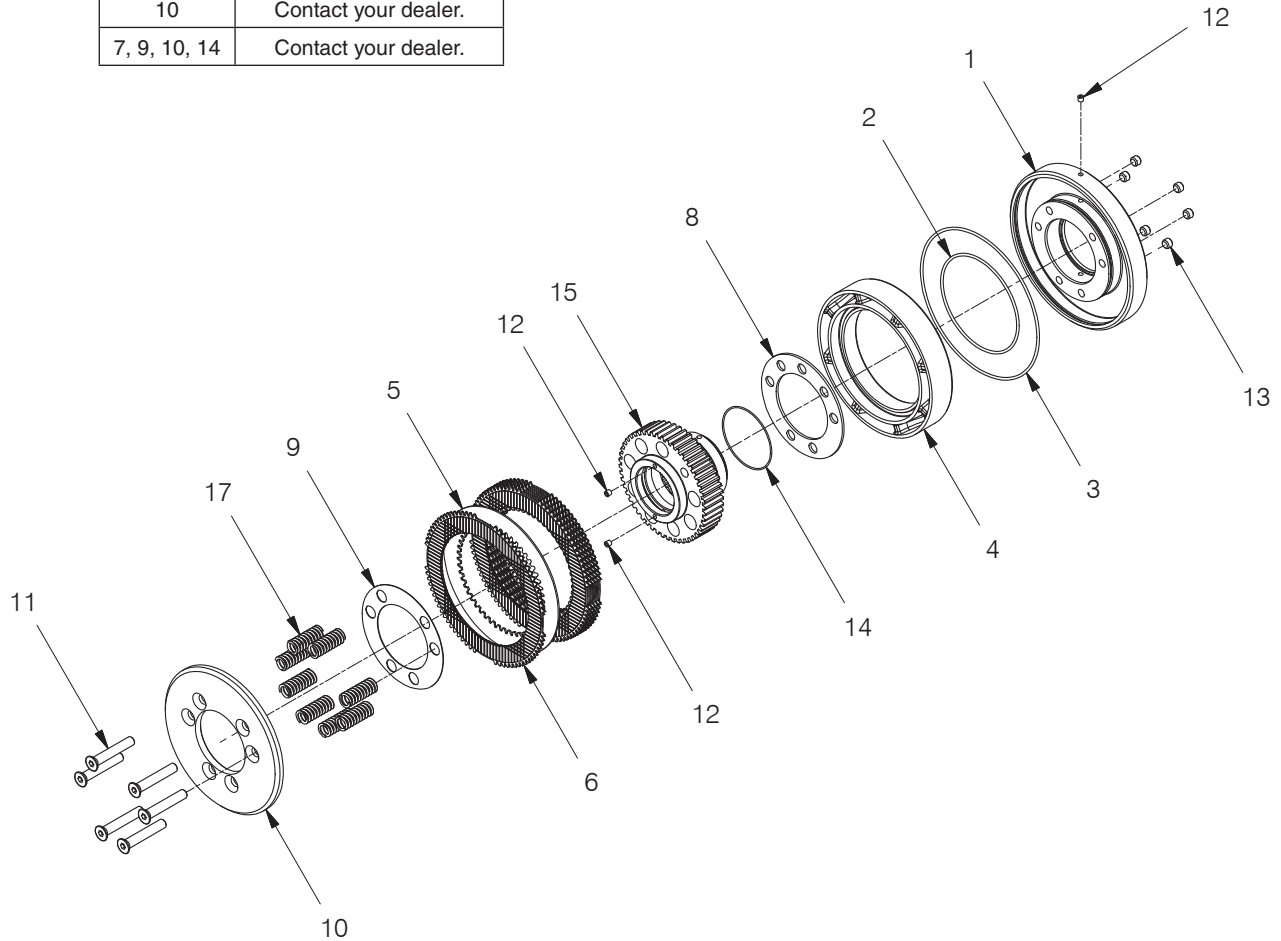
# Clutch

Reverse

Power Control

First Used on S/N W6FP-2000 and S/N AW6F-1001

Parts Service Gram	
Item	Gram
10	Contact your dealer.
7, 9, 10, 14	Contact your dealer.

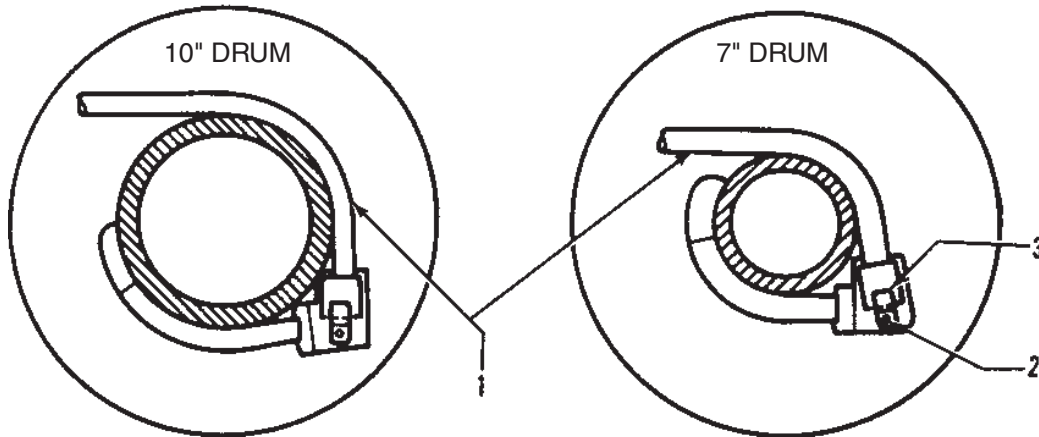


Recommended Service Kit		
Item	Kit No.	Section
3, 6, 7, 9, 10, 11, 13	2311378	5-1

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>274905W</b>	<b>Clutch Assembly, Reverse</b>	<b>1</b>				
1	224790W	. Plate, Retainer	1	10	224794W	. Plate, Clutch	1
2	*a 89777W	. O-Ring	1	11	16373W	. Capscrew	6
3	*a 79972W	. O-Ring	1	12	141348W	. Fitting	3
4	96462W	. Piston, Clutch	1	13	196435W	. Setscrew	6
5	*a 261542W	. Plate, Separator	6	14	*a 39370W	. O-Ring	1
6	*a 328715W	. Disc, Friction	6	15	265405W	. Hub, Reverse Clutch	1
7	*a 265407W	. Spring	8				
8	96461W	. Retainer, Spring	1				
9	*a 224793W	. Shim .031	AR		*a	Included in 2300544W Service Kit	



Wire Rope Lock



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	96033W	Filler, 10"	1	2	*a 15158W	Lockwasher	1
1	*a 2301782W	Filler, 10"	1	3	274907W	Keeper, Ferrule	1
1	96035W	Filler, 7"	1	3	*a 2301783W	Keeper, Ferrule	1
2	16336W	Capscrew	1		*a	First Used on S/N AW6F-3246	
2	*a 16829W	Capscrew	1				
2	177949W	Lockwasher	1				

Intentionally Blank

## Hydraulics/Controls

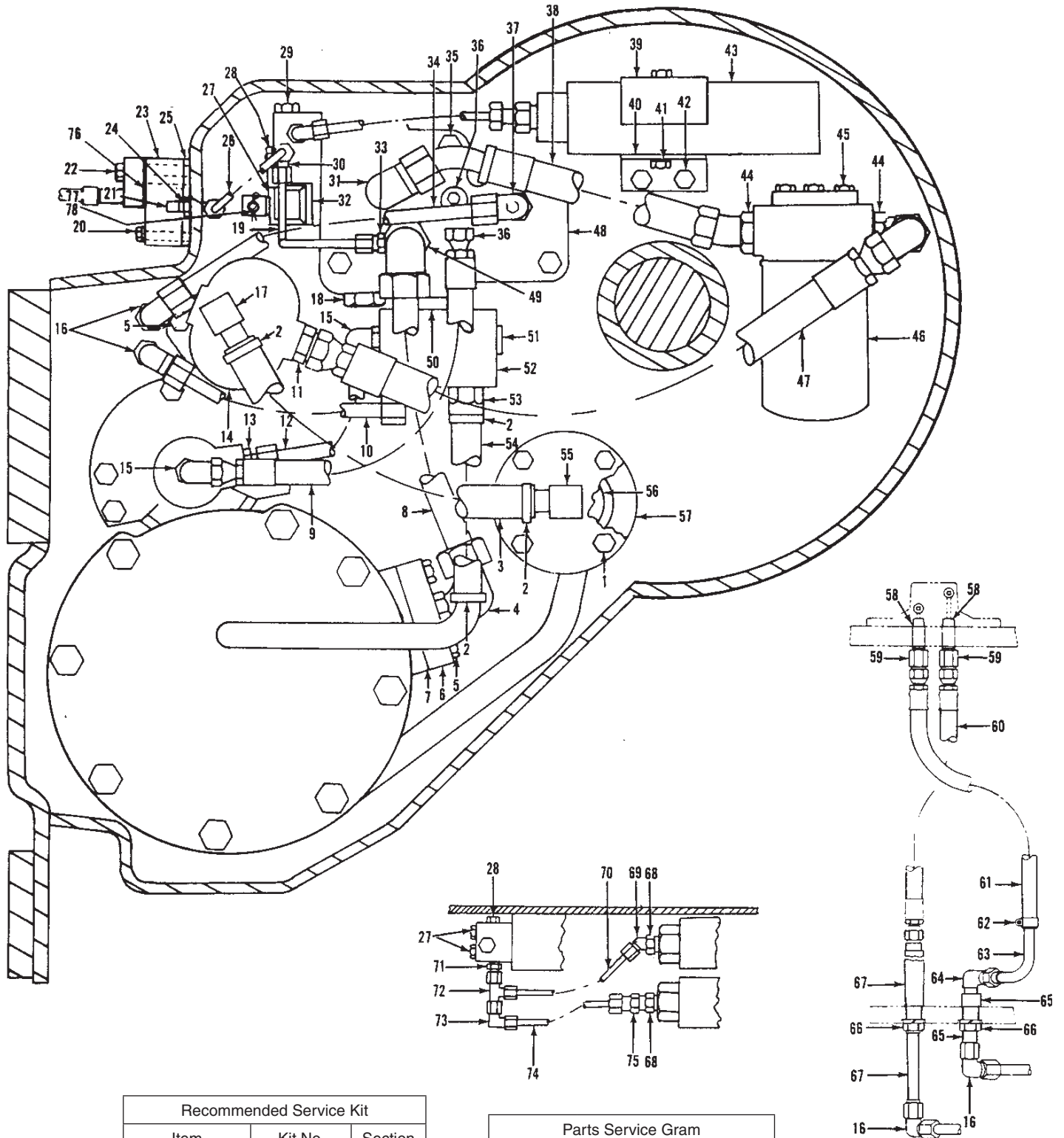
Brake Linkage.....	3-39
Control Levers.....	3-40 thru 3-151
• Direct Drive.....	3-40 thru 3-52
•• Freespool.....	3-48 thru 3-52
•• Non-Freespool.....	3-40 thru 3-47
• Power Control.....	3-54 thru 3-151
•• Freespool.....	3-54 thru 3-111
•• Non-Freespool.....	3-112 thru 3-151
Control Lever Assembly.....	3-152 thru 3-162
Control Valve.....	3-35 thru 3-37
Hydraulics.....	3-2 thru 3-29
Hydraulic Pump.....	3-30 & 3-32
Shifter Linkage.....	3-38
Tractor Filter Relocation.....	3-33 & 3-34

# Hydraulics

All Except Komatsu

Last Used on S/N W6F-1659 and S/N AW6F-1000

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Recommended Service Kit		
Item	Kit No.	Section
46 (277490W), 57 (264068W)	2311384	5-1
7, 25, 76, 57 (264068W)	267494W	5-1

Parts Service Gram	
Item	Gram
57	Contact your dealer.
27, 29, 30	Contact your dealer.

## Hydraulics

All Except Komatsu

Last Used on S/N W6F-1659 and S/N AW6F-1000

Page 2 of 2

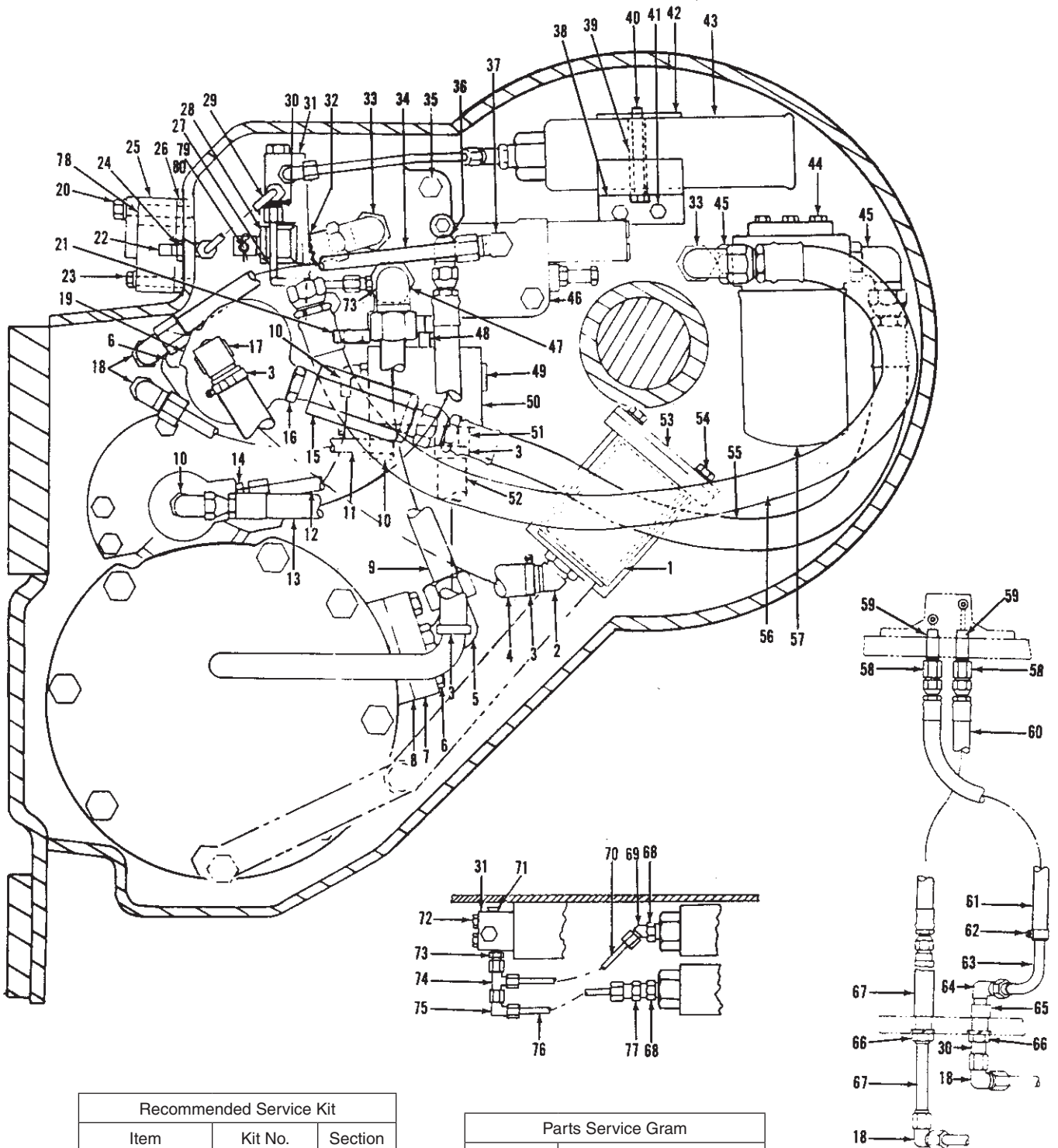
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	16805W	Capscrew	4	37	198063W	Fitting	1
2	15156W	Lockwasher	4	37	16484W	. O-Ring	1
2	209639W	Clamp	4	38	264066W	Assembly, Hose	1
3	225704W	Assembly, Hose	1	39	-----	Bracket	1
4	16948W	Fitting	1	40	-----	Plate	1
4	16982W	. O-Ring	1	41	145641W	Locknut	1
5	16828W	Capscrew	2	42	194090W	Capscrew	2
5	15156W	Lockwasher	2	42	15156W	Lockwasher	2
6	279392W	Block	1	43	327610W	Accumulator	2
7	196022W	Gasket	1	44	16561W	Fitting	2
8	225246W	Assembly, Tube	1	44	16486W	. O-Ring	1
9	132009W	Assembly, Hose	1	45	18497W	Capscrew	3
10	225245W	Assembly, Tube	1	45	15155W	Lockwasher	3
11	142682W	Fitting	1	46	277489W	Filter	1
11	16485W	. O-Ring	1	46	277490W	. Element	1
12	225244W	Assembly, Tube	1	47	76227W	Assembly, Hose	1
13	16541W	Fitting	1	48	-----	Valve, Control (See 3-35 thru 3-37)	1
13	16484W	. O-Ring	1	49	225712W	Fitting	1
14	-----	Pump, Hydraulic (See 3-30 & 3-32)	1	49	16982W	. O-Ring	1
15	16559W	Fitting	2	50	225232W	Fitting	1
15	16484W	. O-Ring	1	50	16487W	. O-Ring	1
16	16989W	Fitting	2	51	15963W	Fitting	1
17	276091W	Fitting	1	52	225701W	Manifold	1
17	16487W	. O-Ring	1	53	222505W	Fitting	1
18	226450W	Valve	1	53	16486W	. O-Ring	1
19	277663W	Assembly, Tube	1	54	225703W	Assembly, Hose	1
20	16379W	Capscrew	1	55	127574W	Fitting	1
20	15156W	Lockwasher	1	55	16486W	. O-Ring	1
21	16463W	Fitting	2	56	219172W	Strainer	1
22	18591W	Capscrew	1	57	265326W	Cover, Filter Housing	1
22	15158W	Lockwasher	1	57	264068W	Gasket	1
23	226360W	Block	1	58	19581W	Fitting	2
24	14758W	Adapter	1	59	14723W	Fitting	2
25	226359W	Gasket	1	60	276087W	Assembly, Hose	1
26	277663W	Assembly, Tube	1	61	276097W	Assembly, Hose	1
27	279397W	Cam	1	62	130845W	Clamp	1
28	241778W	Screw	2	63	255434W	Assembly, Tube	1
28	15156W	Lockwasher	2	64	17309W	Fitting	1
29	267018W	Valve	1	65	255433W	Connector	1
29	15483W	. Fitting	2	66	177951W	Lockwasher	2
30	14581W	Fitting	1		14761W	Nut	2
31	16543W	Fitting	1	67	225233W	Connector	1
31	16486W	. O-Ring	1	68	327611W	Fitting	2
31	14500W	Fitting	2	69	14539W	Fitting	1
31	14349W	Fitting	1	70	383892W	Assembly, Hose	1
32	68370W	Pin, Slotted	1	71	14668W	Fitting	1
33	16987W	Fitting	1	72	17059W	Fitting	1
34	225243W	Assembly, Tube	1	73	16987W	Fitting	1
35	198385W	Capscrew	3	74	280256W	Assembly, Hose	1
35	15158W	Lockwasher	3	75	14669W	Fitting	1
36	16541W	Fitting	1	76	303946W	Gasket	1
36	16484W	. O-Ring	1	77	139W	Pin	1
36	225711W	Fitting	1	78	15212W	Pin, Cotter	1
36	14349W	Fitting	3				
36	16151W	Fitting	1				
36	16484W	. O-Ring	1				

# Hydraulics

All Except Komatsu

Used on S/N W6F-1660 Through S/N W6F-2112

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Recommended Service Kit		
Item	Kit No.	Section
53 (265332W), 57 (264068W)	2311384	5-1
8, 26, 78, 53 (265332W)	267494W	5-1

Parts Service Gram	
Item	Gram
57	Contact your dealer.
27, 29, 30	Contact your dealer.

**Hydraulics**

All Except Komatsu

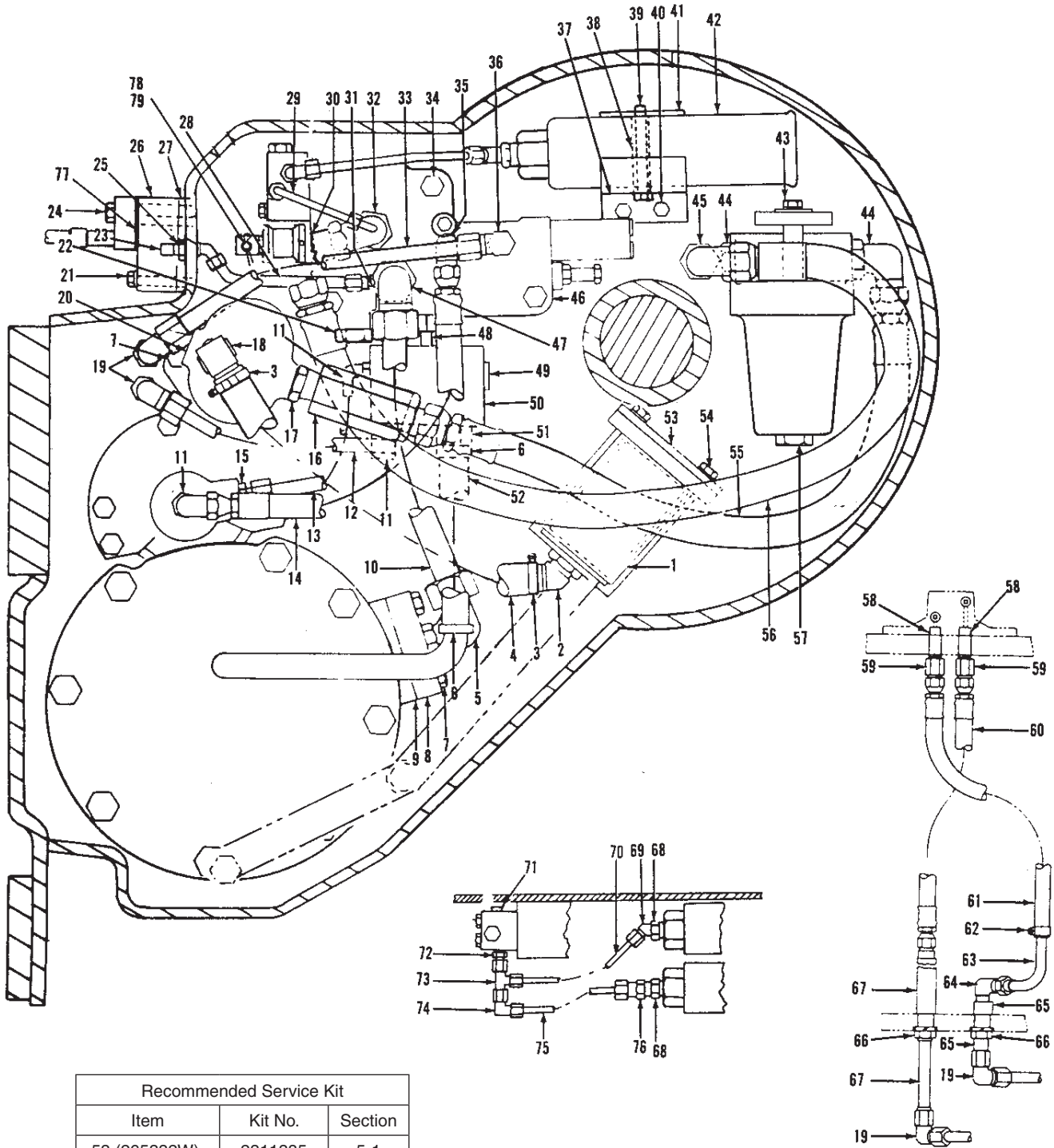
Used on S/N W6F-1660 Through S/N W6F-2112

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	219172W	Strainer	1	38	267488W	Plate	1
2	276090W	Fitting	1	39	*a 267489W	Spacer	1
2	16486W	. O-Ring	1	40	16741W	Capscrew	2
3	209639W	Clamp	4	41	194090W	Capscrew	2
4	277226W	Assembly, Hose	1	41	15156W	Lockwasher	2
5	16948W	Fitting	1	42	267487W	Bracket	1
5	16982W	. O-Ring	1	43	327610W	Accumulator	2
6	16828W	Capscrew	2	44	18498W	Capscrew	3
6	15156W	Lockwasher	2	44	15155W	Lockwasher	3
7	279392W	Block	1	45	16561W	Fitting	2
8	196022W	Gasket	1	46	16486W	. O-Ring	1
9	225246W	Assembly, Tube	1	46	-----	Valve, Control (See 3-35 thru 3-37)	1
10	*a 16559W	Fitting	3	47	225712W	Fitting	1
10	16484W	. O-Ring	1	47	16982W	. O-Ring	1
11	225245W	Assembly, Tube	1	48	225232W	Fitting	1
12	225244W	Assembly, Tube	1	48	16487W	. O-Ring	1
13	132009W	Assembly, Hose	1	49	15963W	Fitting	1
14	16541W	Fitting	1	50	225701W	Manifold	1
14	16484W	. O-Ring	1	51	222505W	Fitting	1
15	*a 271729W	Valve, Check	1	51	16486W	. O-Ring	1
15	16487W	. O-Ring	1	52	225703W	Assembly, Hose	1
16	89669W	Fitting	1	53	265331W	Cover	1
16	16485W	. O-Ring	1	53	265332W	Gasket	1
17	276091W	Fitting	1	54	16597W	Capscrew	4
17	16487W	. O-Ring	1	54	15156W	Lockwasher	4
18	16989W	Fitting	2	55	274038W	Assembly, Hose	1
19	-----	Pump, Hydraulic (See 3-30 & 2-32)	1	56	*a 76787W	Assembly, Hose	1
20	18591W	Capscrew	1	57	277489W	Filter	1
20	15156W	Lockwasher	1	57	277490W	. Element	1
21	226450W	Valve	1	58	14723W	Fitting	2
22	16463W	Fitting	1	59	19581W	Fitting	2
23	16379W	Capscrew	1	60	276087W	Assembly, Hose	1
23	15156W	Lockwasher	1	61	276097W	Assembly, Hose	1
24	14758W	Adapter	1	62	130845W	Clamp	1
25	*a 226360W	Block	1	63	255434W	Assembly, Tube	1
26	226359W	Gasket	1	64	17309W	Fitting	1
27	277663W	Assembly, Tube	1	65	255433W	Connector	1
28	279397W	Cam	1	66	177951W	Lockwasher	2
28	68370W	Pin, Slotted	1	66	14761W	Nut	2
29	225241W	Assembly, Tube	1	67	225233W	Connector	1
30	14581W	Fitting	1	68	327611W	Fitting	2
31	267018W	Valve	1	69	14539W	Fitting	1
31	*b 267018W	Valve	1	70	383892W	Assembly, Hose	1
32	*a 83857W	Fitting	2	71	*b 15483W	Fitting	2
33	*a 164703W	Fitting	1	72	241778W	Screw	2
33	16486W	. O-Ring	1	72	15156W	Lockwasher	2
33	14500W	Fitting	1	73	14668W	Fitting	1
34	225243W	Assembly, Tube	1	74	17059W	Fitting	1
35	198385W	Capscrew	3	75	16987W	Fitting	1
35	15158W	Lockwasher	3	76	280256W	Assembly, Hose	1
36	16541W	Fitting	1	77	14669W	Fitting	1
36	16484W	. O-Ring	1	78	303946W	Gasket	1
36	225711W	Fitting	1	79	139W	Pin	1
36	14349W	Fitting	3	80	15212W	Pin, Cotter	1
36	16151W	Fitting	1				
37	198063W	Fitting	1	*a	First Used on S/N W6FP-1660		
37	16484W	. O-Ring	1	*b	First Used on S/N W6FP-1689		
37	14349W	Fitting	1				

# Hydraulics

All Except Komatsu and John Deere 750C/750C Series II (E45) and 850C/850C Series II (E46)  
 Used on S/N W6F-2113 through S/N AW6F-4348  
 Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
53 (265332W), 53 (2300935W), 57 (3001363W)	2311385	5-1
9, 27, 77, 53 (265332W), 53 (2300935W)	267494W	5-1



## Hydraulics

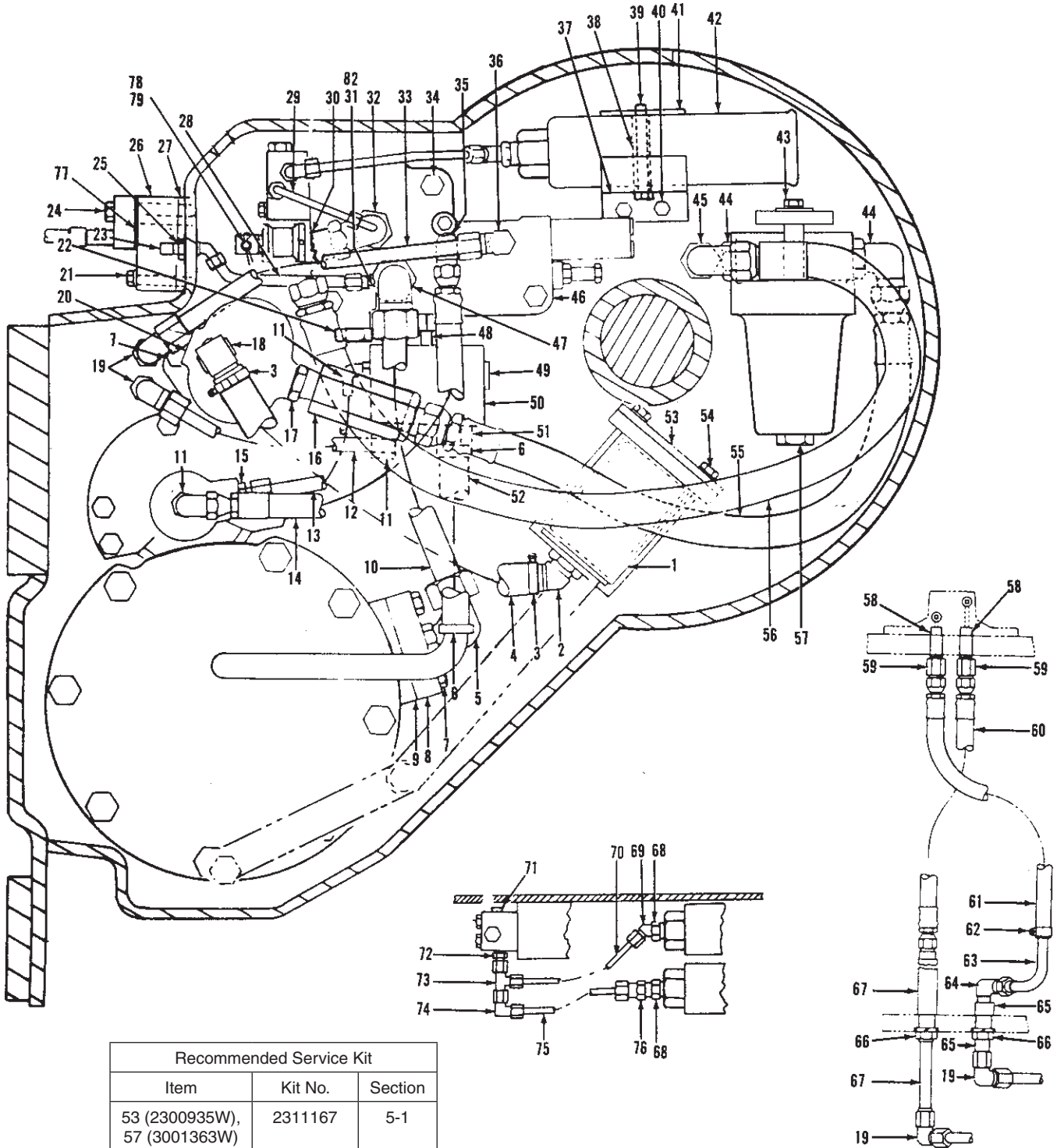
All Except Komatsu and John Deere 750C/750C Series II (E45) and 850C/850C Series II (E46)  
Used on S/N W6F-2113 through S/N AW6F-4348

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Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	219172W	Strainer	1	42	327610W	Accumulator	2
2	276090W	Fitting	1	43	18497W	Capscrew	3
2	16486W	. O-Ring	1	43	15155W	Lockwasher	3
3	209639W	Clamp	2	43	16829W	Capscrew	2
4	277226W	Assembly, Hose	1	43	*a 16598W	Capscrew	2
5	16948W	Fitting	1	43	15158W	Lockwasher	2
5	16982W	. O-Ring	1	43	*a 15156W	Lockwasher	2
6	127045W	Clamp	2	43	15178W	Washer	2
7	16828W	Capscrew	4	43	*a 16561W	Fitting	2
7	15156W	Lockwasher	4	44	16561W	Fitting	2
8	279392W	Block	1	44	16486W	. O-Ring	1
9	196022W	Gasket	1	45	83857W	Fitting	1
10	225246W	Assembly, Tube	1	46	-----	Valve, Control (See 3-35 thru 3-37)	1
11	16559W	Fitting	3	47	225712W	Fitting	1
11	16484W	. O-Ring	1	47	16487W	. O-Ring	1
12	225245W	Assembly, Tube	1	48	225232W	Fitting	1
13	225244W	Assembly, Tube	1	48	16487W	. O-Ring	1
14	132009W	Assembly, Hose	1	49	15963W	Fitting	1
15	16541W	Fitting	1	50	225701W	Manifold	1
15	16484W	. O-Ring	1	51	222505W	Fitting	1
16	271729W	Valve, Check	1	51	16486W	. O-Ring	1
16	16486W	. O-Ring	1	52	225703W	Assembly, Hose	1
17	89669W	Fitting	1	53	265331W	Cover	1
17	16485W	. O-Ring	1	53	*b 2300936W	Plate, Cover	1
18	*c 276091W	Fitting	1	53	265332W	Gasket	1
18	*d, *e 314834W	Fitting	1	53	*b 2300935W	Gasket	1
18	16487W	. O-Ring	1	54	16805W	Capscrew	4
18	*f 2303677W	Fitting	1	54	15156W	Capscrew	4
19	16989W	Fitting	2	55	274038W	Assembly, Hose	1
20	-----	Pump, Hydraulic (See 3-30 & 3-32)	1	56	165489W	Assembly, Hose	1
21	16379W	Capscrew	1	57	279388W	Assembly, Filter	1
21	15156W	Lockwasher	1	57	55468W	. O-Ring	1
22	226450W	Valve	1	57	280591W	. Element	1
23	16463W	Fitting	1	57	*a 2300183W	Assembly, Filter	1
24	18591W	Capscrew	1	57	*a 3001363W	. Element/O-Ring	1
24	15158W	Lockwasher	1	57	*a 55468W	. O-Ring	1
25	14758W	Adapter	1	58	19581W	Fitting	2
26	226360W	Block	1	59	14723W	Fitting	2
27	226359W	Gasket	1	60	276087W	Assembly, Hose	1
28	140288W	Assembly, Hose	1	61	258556W	Assembly, Hose	1
29	277663W	Assembly, Tube	1	62	130845W	Clamp	1
30	83857W	Fitting	1	63	255434W	Assembly, Tube	1
31	14668W	Fitting	1	64	17309W	Fitting	1
32	164703W	Fitting	1	65	225233W	Connector	1
32	16486W	. O-Ring	1	66	177951W	Lockwasher	2
32	83857W	Fitting	1	66	14761W	Nut	2
32	14500W	Fitting	1	67	255433W	Connector	1
33	225243W	Assembly, Tube	1	68	327611W	Fitting	2
34	198385W	Capscrew	3	69	14539W	Fitting	1
34	15158W	Lockwasher	3	70	195893W	Assembly, Hose	1
35	16541W	Fitting	1	71	15483W	Fitting	2
35	16484W	. O-Ring	1	72	14668W	Fitting	1
35	225711W	Fitting	1	73	17059W	Fitting	1
35	14349W	Fitting	1	74	16987W	Fitting	1
35	16151W	Fitting	1	75	280256W	Assembly, Hose	1
36	14349W	Fitting	1	76	14669W	Fitting	1
36	322679W	Fitting	1	77	303946W	Gasket	1
36	16550W	Fitting	1	78	139W	Pin	1
36	16484W	. O-Ring	1	79	15212W	Pin, Cotter	1
37	267488W	Plate	1				
38	267489W	Spacer	1	*a	First Used on S/N AW6F-2235		
38	*g 344839W	Spacer	1	*b	First Used on S/N AW6F-2373		
39	16741W	Capscrew	1	*c	Last Used on S/N W6FP-4584		
39	*g 18542W	Capscrew	1	*d	First Used on S/N W6FP-4585 and S/N AW6F-1001		
40	194090W	Capscrew	2	*e	Last Used on S/N AW6F-4321		
40	15156W	Lockwasher	2	*f	First Used on S/N AW6F-4322		
41	267487W	Bracket	1	*g	First Used on S/N W6F-6132 and S/N AW6F-1001		

# Hydraulics

All Except Komatsu and John Deere 750C/750C Series II (E45) and 850C/850C Series II (E46)  
 Used on S/N AW6F-4349 through S/N AW6F-4742  
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Recommended Service Kit		
Item	Kit No.	Section
53 (2300935W), 57 (3001363W)	2311167	5-1
9, 27, 77, 53 (2300935W)	267494W	5-1

## Hydraulics

All Except Komatsu and John Deere 750C/750C Series II (E45) and 850C/850C Series II (E46)  
Used on S/N AW6F-4349 through S/N AW6F-4742

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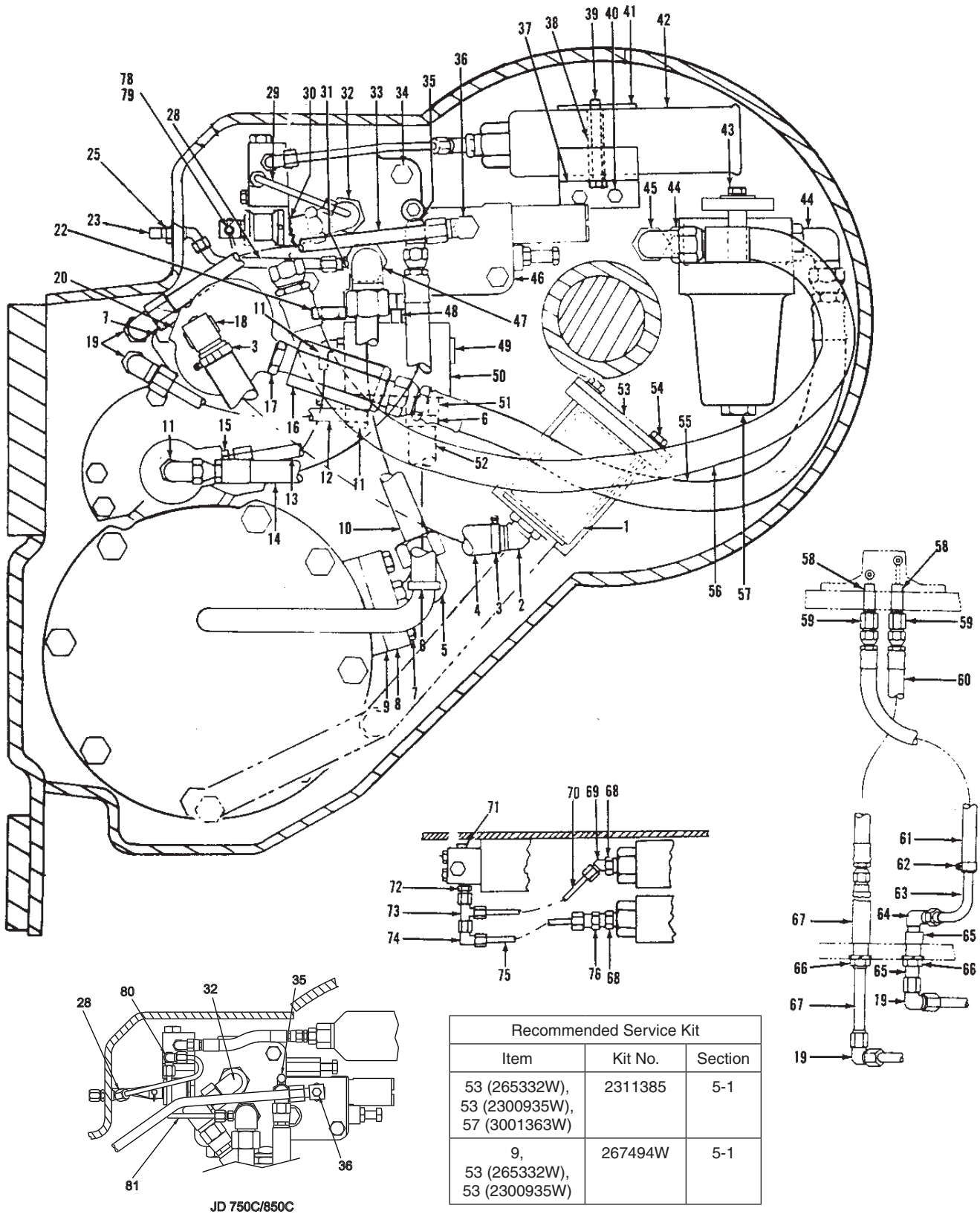
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	219172W	Strainer	1	40	194090W	Capscrew	2
2	276090W	Fitting	1	40	15156W	Lockwasher	2
2	16486W	. O-Ring	1	41	*a 267487W	Bracket	1
3	209639W	Clamp	2	41	*b 2304352W	Bracket	1
4	277226W	Assembly, Hose	1	42	*a 327610W	Accumulator	2
5	16948W	Fitting	1	42	*b R16271	Accumulator	2
5	16982W	. O-Ring	1	43	18497W	Capscrew	3
6	127045W	Clamp	2	43	15155W	Lockwasher	3
7	16828W	Capscrew	4	43	16598W	Capscrew	2
7	15156W	Lockwasher	4	43	15156W	Lockwasher	2
8	279392W	Block	1	43	16561W	Fitting	2
9	196022W	Gasket	1	44	16561W	Fitting	2
10	225246W	Assembly, Tube	1	44	16486W	. O-Ring	1
11	16559W	Fitting	3	45	83857W	Fitting	1
11	16484W	. O-Ring	1	46	-----	Valve, Control (See 3-35 thru 3-37)	1
12	225245W	Assembly, Tube	1	47	225712W	Fitting	1
13	225244W	Assembly, Tube	1	47	16487W	. O-Ring	1
14	132009W	Assembly, Hose	1	48	225232W	Fitting	1
15	16541W	Fitting	1	48	16487W	. O-Ring	1
15	16484W	. O-Ring	1	49	15963W	Fitting	1
16	271729W	Valve, Check	1	50	225701W	Manifold	1
16	16486W	. O-Ring	1	51	222505W	Fitting	1
17	89669W	Fitting	1	51	16486W	. O-Ring	1
17	16485W	. O-Ring	1	52	225703W	Assembly, Hose	1
18	2303677W	Fitting	1	53	2300936W	Plate, Cover	1
19	16989W	Fitting	2	53	2300935W	Gasket	1
20	-----	Pump, Hydraulic (See 3-30 & 3-32)	1	54	16805W	Capscrew	4
21	16379W	Capscrew	1	54	15156W	Capscrew	4
21	15156W	Lockwasher	1	55	274038W	Assembly, Hose	1
22	226450W	Valve	1	56	165489W	Assembly, Hose	1
22	16487W	. O-Ring	1	57	2300183W	Assembly, Filter	1
23	16463W	Fitting	1	57	3001363W	. Element/O-Ring	1
24	18591W	Capscrew	1	57	55468W	. O-Ring	1
24	15158W	Lockwasher	1	58	19581W	Fitting	2
25	14758W	Adapter	1	59	14723W	Fitting	2
26	226360W	Block	1	60	276087W	Assembly, Hose	1
27	226359W	Gasket	1	61	258556W	Assembly, Hose	1
28	140288W	Assembly, Hose	1	62	130845W	Clamp	1
29	277663W	Assembly, Tube	1	63	255434W	Assembly, Tube	1
30	83857W	Fitting	1	64	17309W	Fitting	1
31	14668W	Fitting	1	65	225233W	Connector	1
31	*c 14538W	Fitting	1	66	177951W	Lockwasher	2
32	164703W	Fitting	1	66	14761W	Nut	2
32	16486W	. O-Ring	1	67	255433W	Connector	1
32	83857W	Fitting	1	68	327611W	Fitting	2
32	14500W	Fitting	1	69	14539W	Fitting	1
33	225243W	Assembly, Tube	1	70	195893W	Assembly, Hose	1
34	198385W	Capscrew	3	71	15483W	Fitting	2
34	15158W	Lockwasher	3	72	14668W	Fitting	1
35	16541W	Fitting	1	73	17059W	Fitting	1
35	16484W	. O-Ring	1	74	16987W	Fitting	1
35	225711W	Fitting	1	75	280256W	Assembly, Hose	1
35	14349W	Fitting	1	76	14669W	Fitting	1
35	16151W	Fitting	1	77	303946W	Gasket	1
36	14349W	Fitting	1	78	139W	Pin	1
36	322679W	Fitting	1	79	15212W	Pin, Cotter	1
36	16550W	Fitting	1	82	*c 217206	Fitting	1
36	16484W	. O-Ring	1				
37	267488W	Plate	1		*a	Last Used on S/N AW6F-4454	
38	344839W	Spacer	1		*b	First Used on S/N AW6F-4455	
39	18542W	Capscrew	1		*c	First Used on S/N AW6F-4590	

# Hydraulics

John Deere 750C/750C Series II (E45) and 850C/850C Series II (E46)

Used on S/N W6F-2113 through S/N AW6F-4348

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## Hydraulics

John Deere 750C/750C Series II (E45) and 850C/850C Series II (E46)

Used on S/N W6F-2113 through S/N AW6F-4348

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Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	219172W	Strainer	1	43	*a 16598W	Capscrew	2
2	276090W	Fitting	1	43	15158W	Lockwasher	2
2	16486W	. O-Ring	1	43	*a 15156W	Lockwasher	2
3	209639W	Clamp	2	43	15178W	Washer	2
4	277226W	Assembly, Hose	1	43	*a 16561W	Fitting	2
5	16948W	Fitting	1	44	16561W	Fitting	2
5	16982W	. O-Ring	1	44	16486W	. O-Ring	1
6	127045W	Clamp	2	45	83857W	Fitting	1
7	16828W	Capscrew	4	46	-----	Valve, Control (See 3-35 thru 3-37)	1
7	15156W	Lockwasher	4	47	225712W	Fitting	1
8	279392W	Block	1	47	16487W	. O-Ring	1
9	196022W	Gasket	1	48	225232W	Fitting	1
10	225246W	Assembly, Tube	1	48	16487W	. O-Ring	1
11	16559W	Fitting	3	49	15963W	Fitting	1
11	16484W	. O-Ring	1	50	225701W	Manifold	1
12	225245W	Assembly, Tube	1	51	222505W	Fitting	1
13	225244W	Assembly, Tube	1	51	16486W	. O-Ring	1
14	132009W	Assembly, Hose	1	52	225703W	Assembly, Hose	1
15	16541W	Fitting	1	53	265331W	Cover	1
15	16484W	. O-Ring	1	53	*b 2300936W	Plate, Cover	1
16	271729W	Valve, Check	1	53	265332W	Gasket	1
16	16486W	. O-Ring	1	53	*b 2300935W	Gasket	1
17	89669W	Fitting	1	54	16805W	Capscrew	4
17	16485W	. O-Ring	1	54	15156W	Capscrew	4
18	*c 276091W	Fitting	1	55	274038W	Assembly, Hose	1
18	*d, *e 314834W	Fitting	1	56	165489W	Assembly, Hose	1
18	16487W	. O-Ring	1	57	279388W	Assembly, Filter	1
18	*f 2303677W	Fitting	1	57	55468W	. O-Ring	1
19	16989W	Fitting	2	57	280591W	. Element	1
20	-----	Pump, Hydraulic (See 3-30 & 3-32)	1	57	*a 2300183W	Assembly, Filter	1
22	226450W	Valve	1	57	*a 3001363W	. Element/O-Ring	1
23	16463W	Fitting	1	57	*a 55468W	. O-Ring	1
25	14758W	Adapter	1	58	19581W	Fitting	2
28	2301822W	Assembly, Tube	1	59	14723W	Fitting	2
29	277663W	Assembly, Tube	1	60	276087W	Assembly, Hose	1
30	83857W	Fitting	1	61	258556W	Assembly, Hose	1
31	14668W	Fitting	1	62	130845W	Clamp	1
32	164703W	Fitting	1	63	255434W	Assembly, Tube	1
32	16486W	. O-Ring	1	64	17309W	Fitting	1
32	83857W	Fitting	1	65	225233W	Connector	1
32	14500W	Fitting	1	66	177951W	Lockwasher	2
33	225243W	Assembly, Tube	1	66	14761W	Nut	2
34	198385W	Capscrew	3	67	255433W	Connector	1
34	15158W	Lockwasher	3	68	327611W	Fitting	2
35	225711W	Fitting	1	69	14539W	Fitting	1
35	14349W	Fitting	1	70	195893W	Assembly, Hose	1
35	16151W	Fitting	1	71	15483W	Fitting	2
35	2301582W	Fitting, Special	1	72	14668W	Fitting	1
35	16484W	. O-Ring	1	73	17059W	Fitting	1
35	322679W	Fitting	1	74	16987W	Fitting	1
36	14349W	Fitting	1	75	280256W	Assembly, Hose	1
36	322679W	Fitting	1	76	14669W	Fitting	1
36	2301578W	Fitting, Special	1	78	139W	Pin	1
36	16484W	. O-Ring	1	79	15212W	Pin, Cotter	1
37	267488W	Plate	1	80	17059W	Fitting	1
38	267489W	Spacer	1	80	16987W	Fitting	1
38	*g 344839W	Spacer	1	81	2301821W	Assembly, Tube	1
39	16741W	Capscrew	1				
39	*g 18542W	Capscrew	1	*a	First Used on S/N AW6F-2235		
40	194090W	Capscrew	2	*b	First Used on S/N AW6F-2373		
40	15156W	Lockwasher	2	*c	Last Used on S/N W6FP-4584		
41	267487W	Bracket	1	*d	First Used on S/N W6FP-4585 and AW6F-1001		
42	327610W	Accumulator	2	*e	Last Used on S/N AW6F-4321		
43	18497W	Capscrew	3	*f	First Used on S/N AW6F-4322		
43	15155W	Lockwasher	3	*g	First Used on S/N W6F-6132 and AW6F-1001		
43	16829W	Capscrew	2				

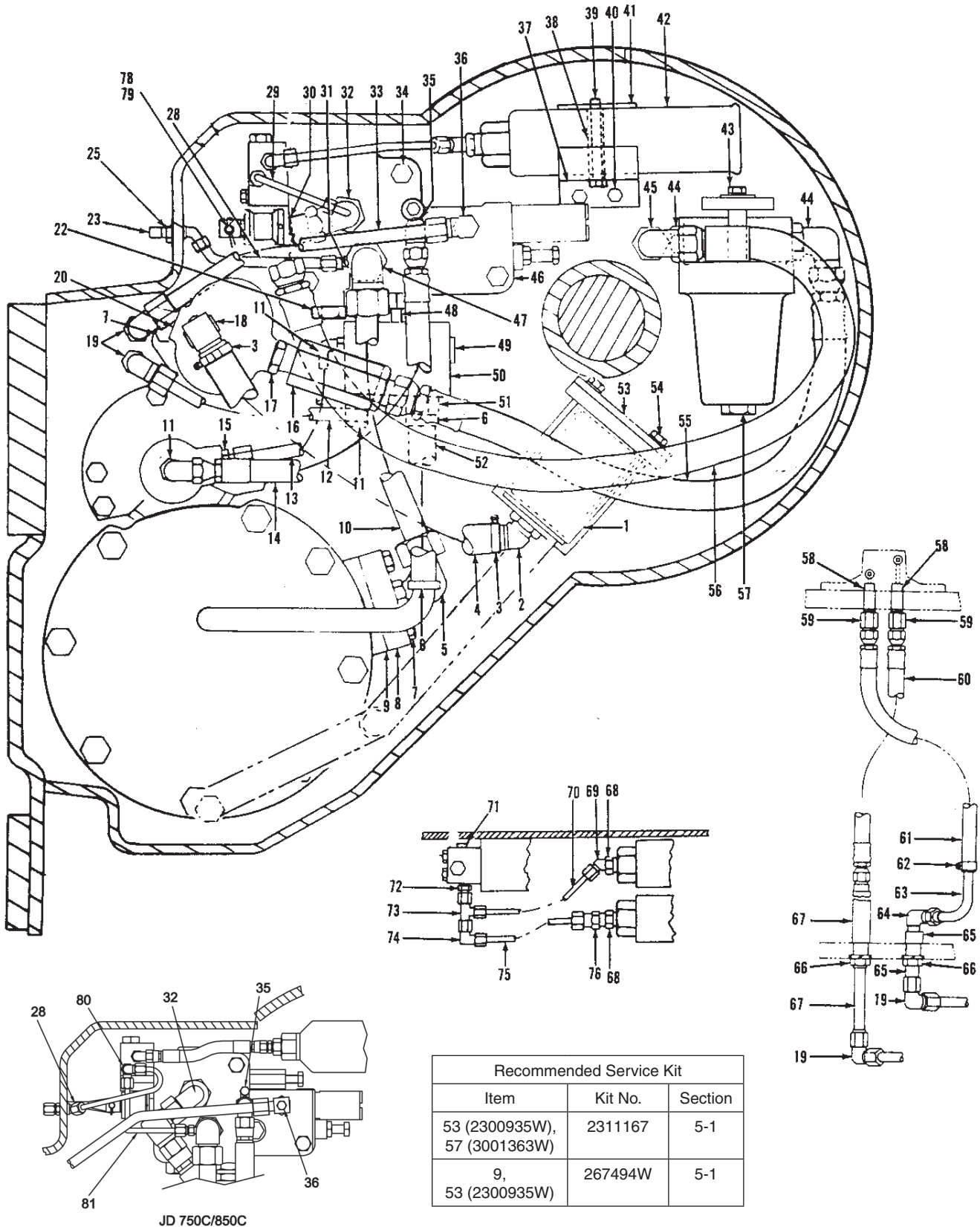


# Hydraulics

John Deere 750C/750C Series II (E45) and 850C/850C Series II (E46)

Used on S/N AW6F-4349 through S/N AW6F-4742

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JD 750C/850C

### Hydraulics

John Deere 750C/750C Series II (E45) and 850C/850C Series II (E46)

Used on S/N AW6F-4349 through S/N AW6F-4742

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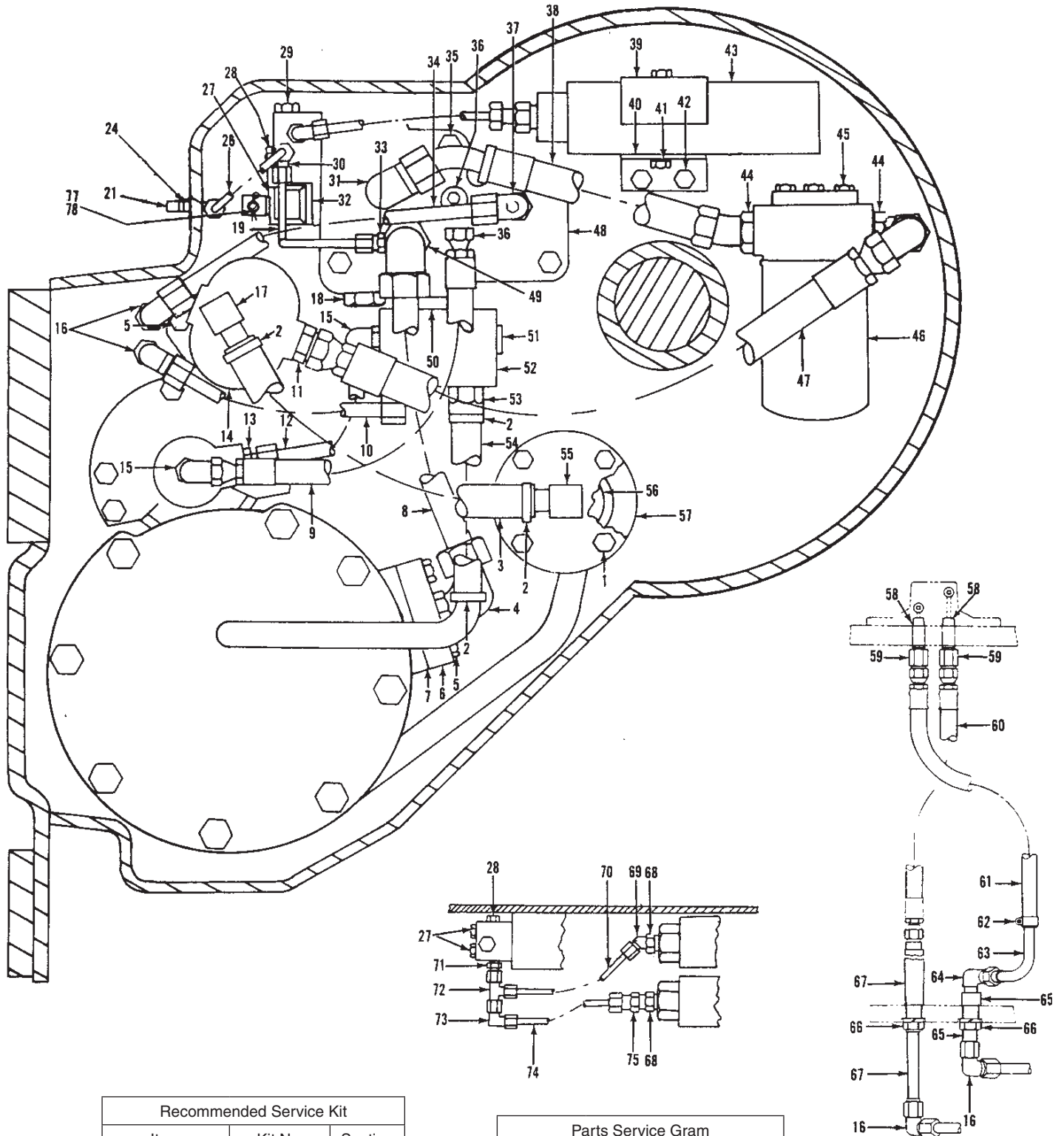
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	219172W	Strainer	1	42	*b R16271	Accumulator	2
2	276090W	Fitting	1	43	18497W	Capscrew	3
2	16486W	. O-Ring	1	43	15155W	Lockwasher	3
3	209639W	Clamp	2	43	16598W	Capscrew	2
4	277226W	Assembly, Hose	1	43	15156W	Lockwasher	2
5	16948W	Fitting	1	43	16561W	Fitting	2
5	16982W	. O-Ring	1	44	16561W	Fitting	2
6	127045W	Clamp	2	44	16486W	. O-Ring	1
7	16828W	Capscrew	4	45	83857W	Fitting	1
7	15156W	Lockwasher	4	46	-----	Valve, Control (See 3-35 thru 3-37)	1
8	279392W	Block	1	47	225712W	Fitting	1
9	196022W	Gasket	1	47	16487W	. O-Ring	1
10	225246W	Assembly, Tube	1	48	225232W	Fitting	1
11	16559W	Fitting	3	48	16487W	. O-Ring	1
11	16484W	. O-Ring	1	49	15963W	Fitting	1
12	225245W	Assembly, Tube	1	50	225701W	Manifold	1
13	225244W	Assembly, Tube	1	51	222505W	Fitting	1
14	132009W	Assembly, Hose	1	51	16486W	. O-Ring	1
15	16541W	Fitting	1	52	225703W	Assembly, Hose	1
15	16484W	. O-Ring	1	53	2300936W	Plate, Cover	1
16	271729W	Valve, Check	1	53	2300935W	Gasket	1
16	16486W	. O-Ring	1	54	16805W	Capscrew	4
17	89669W	Fitting	1	54	15156W	Capscrew	4
17	16485W	. O-Ring	1	55	274038W	Assembly, Hose	1
18	2303677W	Fitting	1	56	165489W	Assembly, Hose	1
19	16989W	Fitting	2	57	2300183W	Assembly, Filter	1
20	-----	Pump, Hydraulic (See 3-30 & 3-32)	1	57	3001363W	. Element/O-Ring	1
22	226450W	Valve	1	57	55468W	. O-Ring	1
22	16487W	. O-Ring	1	58	19581W	Fitting	2
23	16463W	Fitting	1	59	14723W	Fitting	2
25	14758W	Adapter	1	60	276087W	Assembly, Hose	1
28	2301822W	Assembly, Tube	1	61	258556W	Assembly, Hose	1
29	277663W	Assembly, Tube	1	62	130845W	Clamp	1
30	83857W	Fitting	1	63	255434W	Assembly, Tube	1
31	14668W	Fitting	1	64	17309W	Fitting	1
31	*c 14538W	Fitting	1	65	225233W	Connector	1
32	16561W	Fitting	1	66	177951W	Lockwasher	2
32	16486W	. O-Ring	1	66	14761W	Nut	2
32	83857W	Fitting	1	67	255433W	Connector	1
33	225243W	Assembly, Tube	1	68	327611W	Fitting	2
34	198385W	Capscrew	3	69	14539W	Fitting	1
34	15158W	Lockwasher	3	70	195893W	Assembly, Hose	1
35	2301582W	Fitting	1	71	15483W	Fitting	2
35	16484W	. O-Ring	1	72	14668W	Fitting	1
35	225711W	Fitting	1	73	17059W	Fitting	1
35	14349W	Fitting	1	74	16987W	Fitting	1
35	16151W	Fitting	1	75	280256W	Assembly, Hose	1
36	14349W	Fitting	1	76	14669W	Fitting	1
36	322679W	Fitting	1	78	139W	Pin	1
36	2301578W	Fitting	1	79	15212W	Pin, Cotter	1
36	16484W	. O-Ring	1	80	17059W	Fitting	1
37	267488W	Plate	1	80	16987W	Fitting	1
38	344839W	Spacer	1	81	2301821W	Assembly, Tube	1
39	18542W	Capscrew	1	82	*c 217206	Fitting	1
40	194090W	Capscrew	2		*a	Last Used on S/N AW6F-4454	
40	15156W	Lockwasher	2		*b	First Used on S/N AW6F-4455	
41	*a 267487W	Bracket	1		*c	First Used on S/N AW6F-4590	
41	*b 2304352W	Bracket	1				
42	*a 327610W	Accumulator	2				

# Hydraulics

Komatsu

Last Used on S/N W6F-1659 and S/N AW6F-1000

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Recommended Service Kit		
Item	Kit No.	Section
46 (277490W), 57 (264068W)	2311384	5-1
7, 57 (264068W)	2311384	5-1

Parts Service Gram	
Item	Gram
57	Contact your dealer
27, 29, 30	Contact your dealer



## Hydraulics

Komatsu

Last Used on S/N W6F-1659 and S/N AW6F-1000

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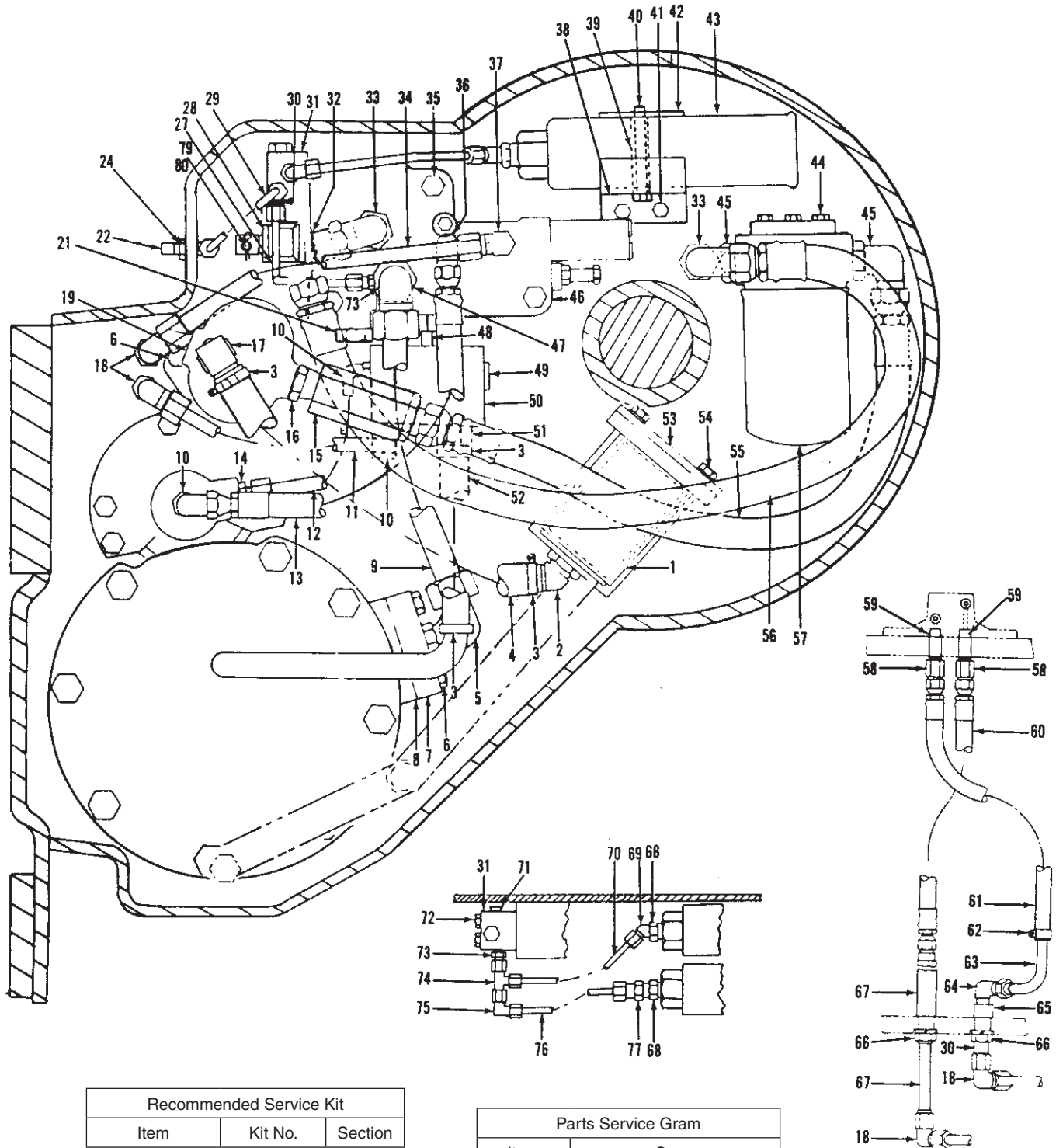
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	16805W	Capscrew	4	37	16484W	. O-Ring	1
1	15156W	Lockwasher	4	38	264066W	Assembly, Hose	1
2	209639W	Clamp	4	39	-----	Bracket	1
3	225704W	Assembly, Hose	1	40	-----	Plate	1
4	16948W	Fitting	1	41	145641W	Locknut	1
4	16982W	. O-Ring	1	42	194090W	Capscrew	2
5	16828W	Capscrew	2	42	15156W	Lockwasher	2
5	15156W	Lockwasher	2	43	327610W	Accumulator	2
6	279392W	Block	1	44	16561W	Fitting	2
7	196022W	Gasket	1	44	16486W	. O-Ring	1
8	225246W	Assembly, Tube	1	45	18497W	Capscrew	3
9	132009W	Assembly, Hose	1	45	15155W	Lockwasher	3
10	225245W	Assembly, Tube	1	46	277489W	Filter	1
11	142682W	Fitting	1	46	277490W	. Element	1
11	16485W	. O-Ring	1	47	76227W	Assembly, Hose	1
12	225244W	Assembly, Tube	1	48	-----	Valve, Control (See 3-35 thru 3-37)	1
13	16541W	Fitting	1	49	225712W	Fitting	1
13	16484W	. O-Ring	1	49	16982W	. O-Ring	1
14	-----	Pump, Hydraulic (See 3-30 & 3-32)	1	50	225232W	Fitting	1
15	16559W	Fitting	2	50	16487W	. O-Ring	1
15	16484W	. O-Ring	1	51	15963W	Fitting	1
16	16989W	Fitting	2	52	225701W	Manifold	1
17	276091W	Fitting	1	53	222505W	Fitting	1
17	16487W	. O-Ring	1	53	16486W	. O-Ring	1
18	226450W	Valve	1	54	225703W	Assembly, Hose	1
19	277663W	Assembly, Tube	1	55	127574W	Fitting	1
21	16463W	Fitting	2	55	16486W	. O-Ring	1
24	14758W	Adapter	1	56	219172W	Strainer	1
26	277663W	Assembly, Tube	1	57	265326W	Cover, Filter Housing	1
27	279397W	Cam	1	57	264068W	Gasket	1
28	241778W	Screw	2	58	19581W	Fitting	2
28	15156W	Lockwasher	2	59	14723W	Fitting	2
29	267018W	Valve	1	60	276087W	Assembly, Hose	1
29	15483W	. Fitting	2	61	276097W	Assembly, Hose	1
30	14581W	Fitting	1	62	130845W	Clamp	1
31	16543W	Fitting	1	63	255434W	Assembly, Tube	1
31	16486W	. O-Ring	1	64	17309W	Fitting	1
31	14500W	Fitting	2	65	255433W	Connector	1
31	14349W	Fitting	1	66	177951W	Lockwasher	2
32	68370W	Pin, Slotted	1	66	14761W	Nut	2
33	16987W	Fitting	1	67	225233W	Connector	1
34	225243W	Assembly, Tube	1	68	327611W	Fitting	2
35	198385W	Capscrew	3	69	14539W	Fitting	1
35	15158W	Lockwasher	3	70	383892W	Assembly, Hose	1
36	16541W	Fitting	1	71	14668W	Fitting	1
36	16484W	. O-Ring	1	72	17059W	Fitting	1
36	225711W	Fitting	1	73	16987W	Fitting	1
36	14349W	Fitting	3	74	280256W	Assembly, Hose	1
36	16151W	Fitting	1	75	14669W	Fitting	1
36	16484W	. O-Ring	1	77	139W	Pin	1
37	198063W	Fitting	1	78	15212W	Pin, Cotter	1

# Hydraulics

Komatsu

Last Used on S/N W6F-1659 and S/N AW6F-1000

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Recommended Service Kit		
Item	Kit No.	Section
53 (265332W), 57 (277490W)	2311384	5-1
8, 53 (265332W)	267494W	5-1

Parts Service Gram	
Item	Gram
57	Contact your dealer.
27, 29, 30	Contact your dealer.

**Hydraulics**

Komatsu

Used on S/N W6F-1660 Through S/N W6F-2112

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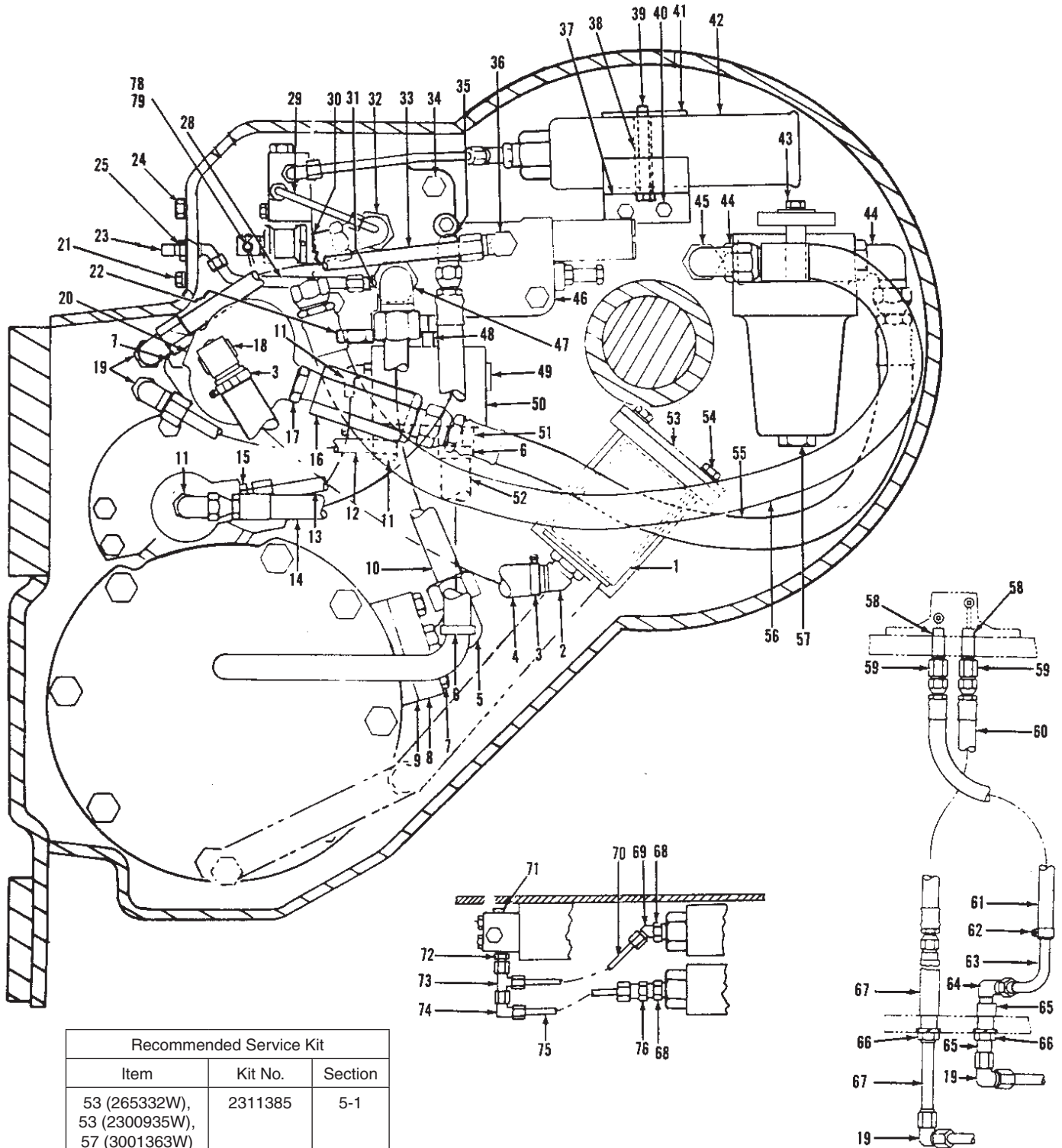
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	219172W	Strainer	1	40	16741W	Capscrew	2
2	276090W	Fitting	1	41	194090W	Capscrew	2
2	16486W	. O-Ring	1	41	15156W	Lockwasher	2
3	209639W	Clamp	4	42	267487W	Bracket	1
4	277226W	Assembly, Hose	1	43	327610W	Accumulator	2
5	16948W	Fitting	1	44	18498W	Capscrew	3
5	16982W	. O-Ring	1	44	15155W	Lockwasher	3
6	16828W	Capscrew	2	45	16561W	Fitting	2
6	15156W	Lockwasher	2	45	16486W	. O-Ring	1
7	279392W	Block	1	46	-----	Valve, Control (See 3-35 thru 3-37)	1
8	196022W	Gasket	1	47	225712W	Fitting	1
9	225246W	Assembly, Tube	1	47	16982W	. O-Ring	1
10	*a 16559W	Fitting	3	48	225232W	Fitting	1
10	16484W	. O-Ring	1	48	16487W	. O-Ring	1
11	225245W	Assembly, Tube	1	49	15963W	Fitting	1
12	225244W	Assembly, Tube	1	50	225701W	Manifold	1
13	132009W	Assembly, Hose	1	51	222505W	Fitting	1
14	16541W	Fitting	1	51	16486W	. O-Ring	1
14	16484W	. O-Ring	1	52	225703W	Assembly, Hose	1
15	*a 271729W	Valve, Check	1	53	265331W	Cover	1
15	16487W	. O-Ring	1	53	265332W	Gasket	1
16	89669W	Fitting	1	54	16597W	Capscrew	4
16	16485W	. O-Ring	1	54	15156W	Lockwasher	4
17	276091W	Fitting	1	55	274038W	Assembly, Hose	1
17	16487W	. O-Ring	1	56	*a 76787W	Assembly, Hose	1
18	16989W	Fitting	2	57	277489W	Assembly, Filter	1
19	-----	Pump, Hydraulic (See 3-30 & 3-32)	1	57	277490W	. Element	1
21	226450W	Valve	1	58	14723W	Fitting	2
22	16463W	Fitting	1	59	19581W	Fitting	2
24	14758W	Adapter	1	60	276087W	Assembly, Hose	1
27	277663W	Assembly, Tube	1	61	276097W	Assembly, Hose	1
28	279397W	Cam	1	62	130845W	Clamp	1
28	68370W	Pin, Slotted	1	63	255434W	Assembly, Tube	1
29	225241W	Assembly, Tube	1	64	17309W	Fitting	1
30	14581W	Fitting	1	65	255433W	Connector	1
31	267018W	Valve	1	66	177951W	Lockwasher	2
31	*b 267018W	Valve	1	66	14761W	Nut	2
32	*a 83857W	Fitting	2	67	225233W	Connector	1
33	*a 164703W	Fitting	1	68	327611W	Fitting	2
33	16486W	. O-Ring	1	69	14539W	Fitting	1
33	14500W	Fitting	1	70	383892W	Assembly, Hose	1
34	225243W	Assembly, Tube	1	71	*b 15483W	Fitting	2
35	198385W	Capscrew	3	72	241778W	Screw	2
35	15158W	Lockwasher	3	72	15156W	Lockwasher	2
36	16541W	Fitting	1	73	14668W	Fitting	1
36	16484W	. O-Ring	1	74	17059W	Fitting	1
36	225711W	Fitting	1	75	16987W	Fitting	1
36	14349W	Fitting	3	76	280256W	Assembly, Hose	1
36	16151W	Fitting	1	77	14669W	Fitting	1
37	198063W	Fitting	1	79	139W	Pin	1
37	16484W	. O-Ring	1	80	15212W	Pin, Cotter	1
37	14349W	Fitting	1				
38	267488W	Plate	1				
39	*a 267489W	Spacer	1				
				*a	First Used on S/N W6FP-1660		
				*b	First Used on S/N W6FP-1689		

# Hydraulics

Komatsu

Used on S/N W6F-2113 through S/N AW6F-4348

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Recommended Service Kit		
Item	Kit No.	Section
53 (265332W), 53 (2300935W), 57 (3001363W)	2311385	5-1
9, 53 (265332W), 53 (2300935W)	267494W	5-1

## Hydraulics

Komatsu

Used on S/N W6F-2113 through S/N AW6F-4348

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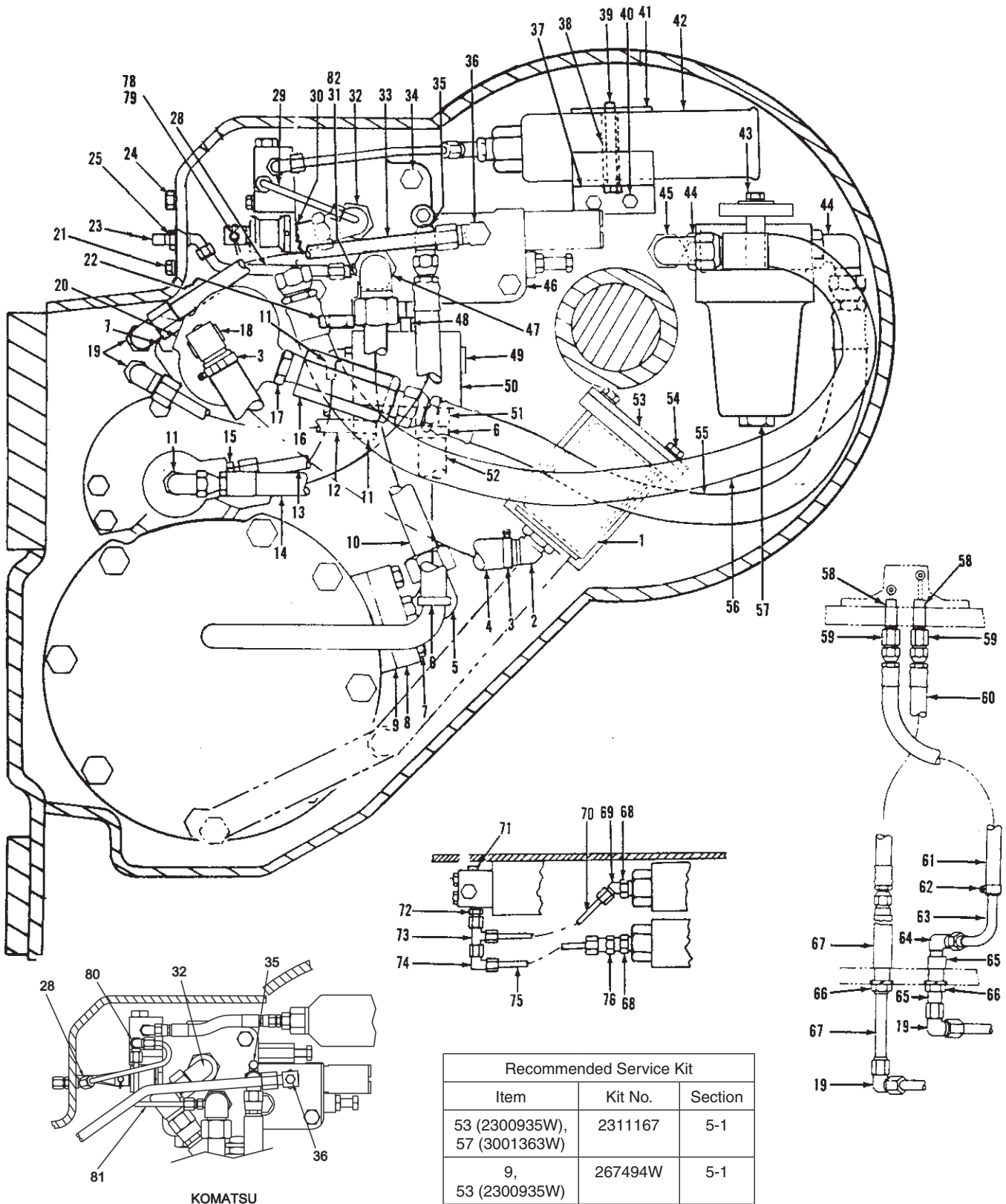
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	219172W	Strainer	1	43	18497W	Capscrew	3
2	276090W	Fitting	1	43	15155W	Lockwasher	3
2	16486W	. O-Ring	1	43	16829W	Capscrew	2
3	209639W	Clamp	2	43	*a 16598W	Capscrew	2
4	277226W	Assembly, Hose	1	43	15158W	Lockwasher	2
5	16948W	Fitting	1	43	*a 15156W	Lockwasher	2
5	16982W	. O-Ring	1	43	15178W	Washer	2
6	127045W	Clamp	2	43	*a 16561W	Fitting	2
7	16828W	Capscrew	4	44	16561W	Fitting	2
7	15156W	Lockwasher	4	44	16486W	. O-Ring	1
8	279392W	Block	1	45	83857W	Fitting	1
9	196022W	Gasket	1	46	-----	Valve, Control (See 3-35 thru 3-37)	1
10	225246W	Assembly, Tube	1	47	225712W	Fitting	1
11	16559W	Fitting	3	47	16487W	. O-Ring	1
11	16484W	. O-Ring	1	48	225232W	Fitting	1
12	225245W	Assembly, Tube	1	48	16487W	. O-Ring	1
13	225244W	Assembly, Tube	1	49	15963W	Fitting	1
14	132009W	Assembly, Hose	1	50	225701W	Manifold	1
15	16541W	Fitting	1	51	222505W	Fitting	1
15	16484W	. O-Ring	1	51	16486W	. O-Ring	1
16	271729W	Valve, Check	1	52	225703W	Assembly, Hose	1
16	16486W	. O-Ring	1	53	265331W	Cover	1
17	89669W	Fitting	1	53	*b 2300936W	Plate, Cover	1
17	16485W	. O-Ring	1	53	265332W	Gasket	1
18	*c 276091W	Fitting	1	53	*b 2300935W	Gasket	1
18	*d, *e 314834W	Fitting	1	54	16805W	Capscrew	4
18	16487W	. O-Ring	1	54	15156W	Capscrew	4
18	*f 2303677W	Fitting	1	55	274038W	Assembly, Hose	1
19	16989W	Fitting	2	56	165489W	Assembly, Hose	1
20	-----	Pump, Hydraulic (See 3-30 & 3-32)	1	57	279388W	Assembly, Filter	1
21	16597W	Capscrew	1	57	55468W	. O-Ring	1
21	15156W	Lockwasher	1	57	280591W	. Element	1
22	226450W	Valve	1	57	*a 2300183W	Assembly, Filter	1
23	16463W	Fitting	1	57	*a 3001363W	. Element/O-Ring	1
24	16830W	Capscrew	1	57	*a 55468W	. O-Ring	1
24	15158W	Lockwasher	1	58	19581W	Fitting	2
25	14758W	Adapter	1	59	14723W	Fitting	2
28	140288W	Assembly, Hose	1	60	276087W	Assembly, Hose	1
29	277663W	Assembly, Tube	1	61	258556W	Assembly, Hose	1
30	83857W	Fitting	1	62	130845W	Clamp	1
31	14668W	Fitting	1	63	255434W	Assembly, Tube	1
32	164703W	Fitting	1	64	17309W	Fitting	1
32	16486W	. O-Ring	1	65	225233W	Connector	1
32	83857W	Fitting	1	66	177951W	Lockwasher	2
32	14500W	Fitting	1	66	14761W	Nut	2
33	225243W	Assembly, Tube	1	67	255433W	Connector	1
34	198385W	Capscrew	3	68	327611W	Fitting	2
34	15158W	Lockwasher	3	69	14539W	Fitting	1
35	16541W	Fitting	1	70	195893W	Assembly, Hose	1
35	16484W	. O-Ring	1	71	15483W	Fitting	2
35	225711W	Fitting	1	72	14668W	Fitting	1
35	14349W	Fitting	1	73	17059W	Fitting	1
35	16151W	Fitting	1	74	16987W	Fitting	1
36	14349W	Fitting	1	75	280256W	Assembly, Hose	1
36	322679W	Fitting	1	76	14669W	Fitting	1
36	16550W	Fitting	1	78	139W	Pin	1
36	16484W	. O-Ring	1	79	15212W	Pin, Cotter	1
37	267488W	Plate	1				
38	267489W	Spacer	1		*a	First Used on S/N AW6F-2235	
38	*g 344839W	Spacer	1		*b	First Used on S/N AW6F-2373	
39	16741W	Capscrew	1		*c	Last Used on S/N W6FP-4584	
39	*g 18542W	Capscrew	1		*d	First Used on S/N W6FP-4585 and S/N AW6F-1001	
40	194090W	Capscrew	2		*e	Last Used on S/N AW6F-4321	
40	15156W	Lockwasher	2		*f	First Used on S/N AW6F-4322	
41	267487W	Bracket	1		*g	First Used on S/N W6F-6132 and S/N AW6F-1001	
42	327610W	Accumulator	2				

# Hydraulics

Komatsu

Used on S/N AW6F-4349 through S/N AW6F-4742

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Recommended Service Kit		
Item	Kit No.	Section
53 (2300935W), 57 (3001363W)	2311167	5-1
9, 53 (2300935W)	267494W	5-1



## Hydraulics

Komatsu

Used on S/N AW6F-4349 through S/N AW6F-4742

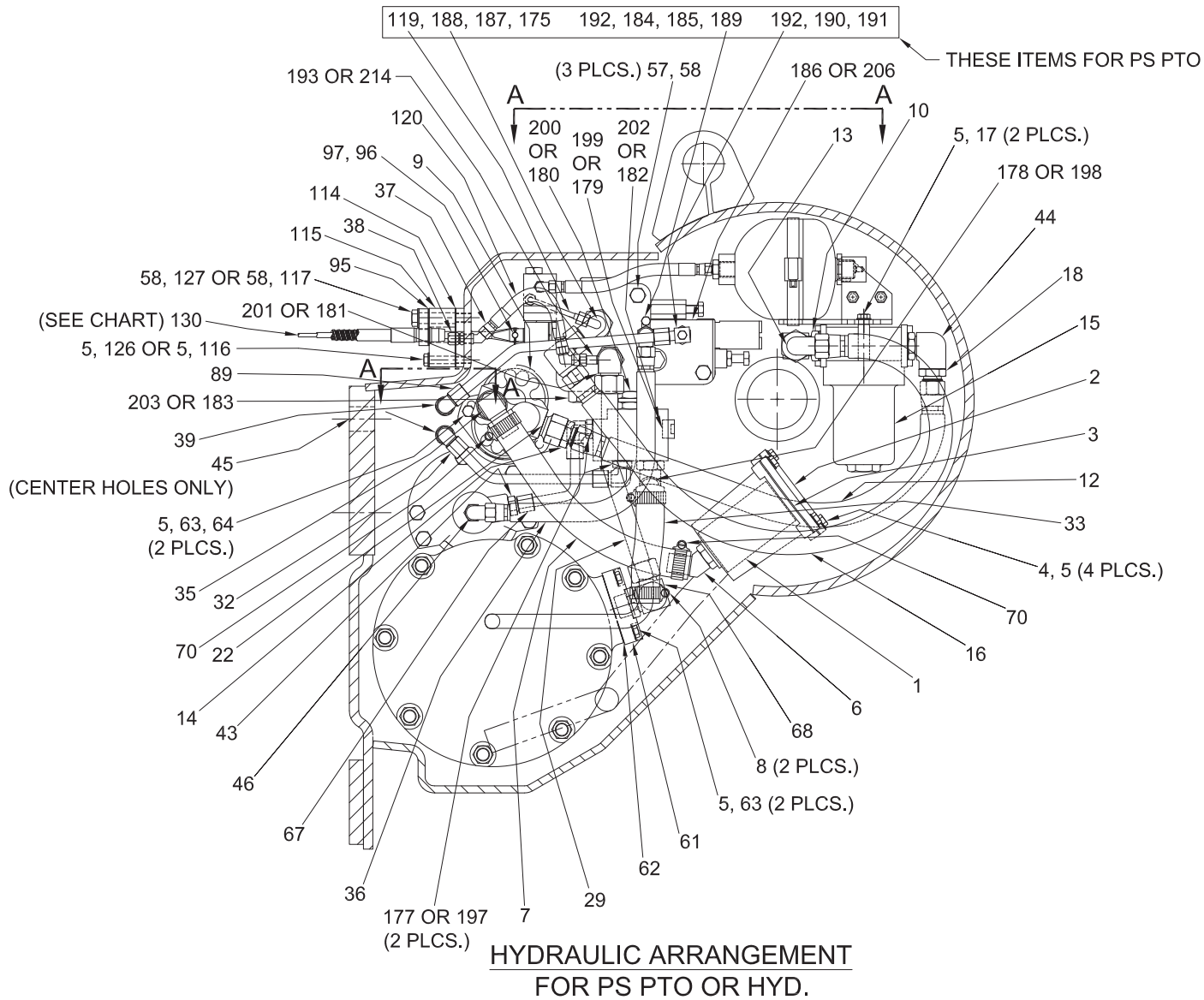
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Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	219172W	Strainer	1	41	*a 267487W	Bracket	1
2	276090W	Fitting	1	41	*b 2304352W	Bracket	1
2	16486W	. O-Ring	1	42	*a 327610W	Accumulator	2
3	209639W	Clamp	2	42	*b R16271	Accumulator	2
4	277226W	Assembly, Hose	1	43	18497W	Capscrew	3
5	16948W	Fitting	1	43	15155W	Lockwasher	3
5	16982W	. O-Ring	1	43	16598W	Capscrew	2
6	127045W	Clamp	2	43	15156W	Lockwasher	2
7	16828W	Capscrew	4	43	16561W	Fitting	2
7	15156W	Lockwasher	4	44	16561W	Fitting	2
8	279392W	Block	1	44	16486W	. O-Ring	1
9	196022W	Gasket	1	45	83857W	Fitting	1
10	225246W	Assembly, Tube	1	46	-----	Valve, Control (See 3-35 thru 3-37)	1
11	16559W	Fitting	3	47	225712W	Fitting	1
11	16484W	. O-Ring	1	47	16487W	. O-Ring	1
12	225245W	Assembly, Tube	1	48	225232W	Fitting	1
13	225244W	Assembly, Tube	1	48	16487W	. O-Ring	1
14	132009W	Assembly, Hose	1	49	15963W	Fitting	1
15	16541W	Fitting	1	50	225701W	Manifold	1
15	16484W	. O-Ring	1	51	222505W	Fitting	1
16	271729W	Valve, Check	1	51	16486W	. O-Ring	1
16	16486W	. O-Ring	1	52	225703W	Assembly, Hose	1
17	89669W	Fitting	1	53	2300936W	Plate, Cover	1
17	16485W	. O-Ring	1	53	2300935W	Gasket	1
18	2303677W	Fitting	1	54	16805W	Capscrew	4
19	16989W	Fitting	2	54	15156W	Capscrew	4
20	-----	Pump, Hydraulic (See 3-30 & 3-32)	1	55	274038W	Assembly, Hose	1
21	16597W	Capscrew	1	56	165489W	Assembly, Hose	1
21	15156W	Lockwasher	1	57	2300183W	Assembly, Filter	1
22	226450W	Valve	1	57	3001363W	. Element/O-Ring	1
22	16487W	. O-Ring	1	57	55468W	. O-Ring	1
23	16463W	Fitting	1	58	19581W	Fitting	2
24	16830W	Capscrew	1	59	14723W	Fitting	2
24	15158W	Lockwasher	1	60	276087W	Assembly, Hose	1
25	14758W	Adapter	1	61	258556W	Assembly, Hose	1
28	2301822W	Assembly, Tube	1	62	130845W	Clamp	1
29	277663W	Assembly, Tube	1	63	255434W	Assembly, Tube	1
30	83857W	Fitting	1	64	17309W	Fitting	1
31	14668W	Fitting	1	65	225233W	Connector	1
31	*c 14538W	Fitting	1	66	177951W	Lockwasher	2
32	16561W	Fitting	1	66	14761W	Nut	2
32	16486W	. O-Ring	1	67	255433W	Connector	1
32	83857W	Fitting	1	68	327611W	Fitting	2
33	225243W	Assembly, Tube	1	69	14539W	Fitting	1
34	198385W	Capscrew	3	70	195893W	Assembly, Hose	1
34	15158W	Lockwasher	3	71	15483W	Fitting	2
35	2301582W	Fitting	1	72	14668W	Fitting	1
35	16484W	. O-Ring	1	73	17059W	Fitting	1
35	225711W	Fitting	1	74	16987W	Fitting	1
35	14349W	Fitting	1	75	280256W	Assembly, Hose	1
35	16151W	Fitting	1	76	14669W	Fitting	1
36	14349W	Fitting	1	78	139W	Pin	1
36	322679W	Fitting	1	79	15212W	Pin, Cotter	1
36	2301578W	Fitting	1	80	17059W	Fitting	1
36	16484W	. O-Ring	1	81	16987W	Fitting	1
37	*a 267488W	Plate	1	81	2301821W	Assembly, Tube	1
37	*b 2302109W	Clamp	1	82	*c 217206	Fitting	1
38	344839W	Spacer	1				
39	18542W	Capscrew	1		*a Last Used on S/N AW6F-4454		
40	194090W	Capscrew	2		*b First Used on S/N AW6F-4455		
40	15156W	Lockwasher	2		*c First Used on S/N AW6F-4590		

### Hydraulics

Used on S/N AW6F-4743 through S/N AW6F-5141

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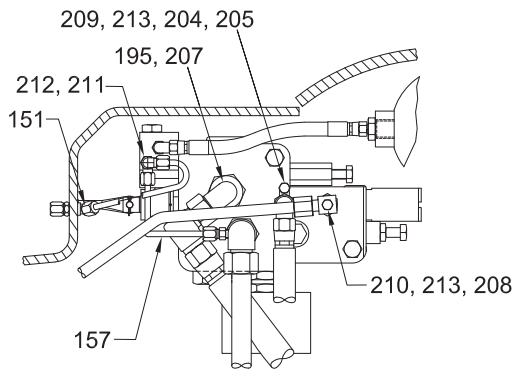
Recommended Service Kit		
Item	Kit No.	Section
3, 15 (3001363W)	2311167	5-1
3, 62, 95, 114	267494W	5-1



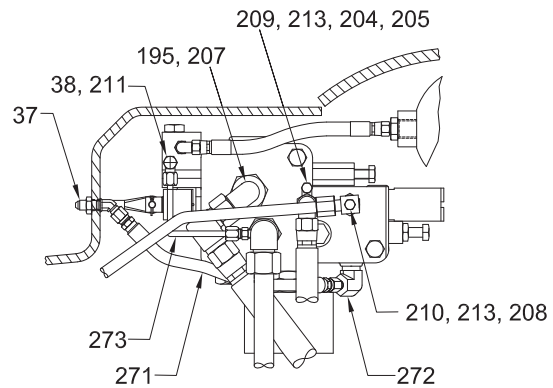
**Hydraulics**

Used on S/N AW6F-4743 through S/N AW6F-5141

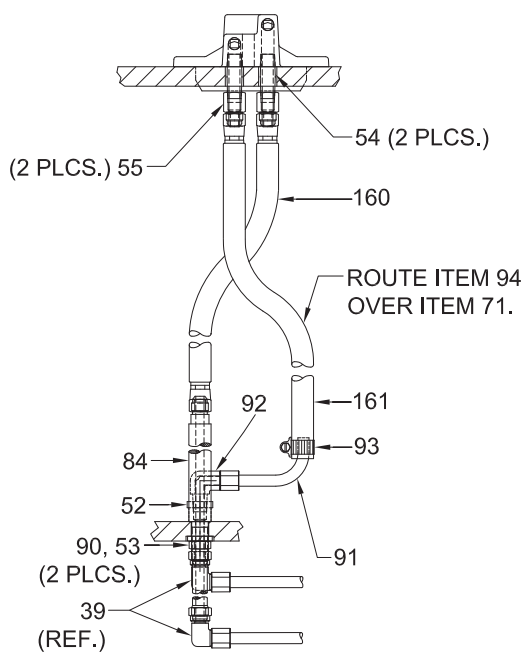
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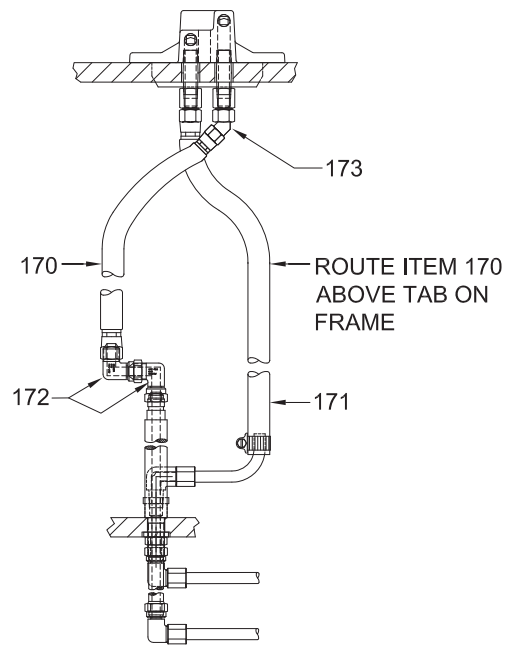
**HYDRAULIC ARRANGEMENT  
FOR DD PTO  
WITHOUT PTO LUBE**



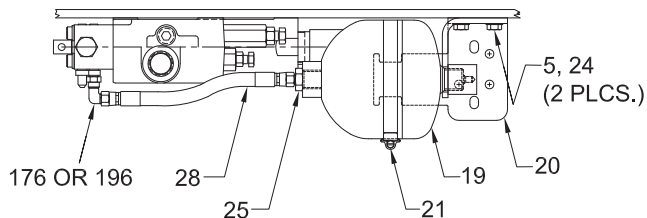
**HYDRAULIC ARRANGEMENT  
FOR DD PTO  
WITH P-CONTROLS PTO LUBE  
FOR WINCHES  
WITH DROP BOXES**



**VIEW A-A  
(FRONT PTO)**



**VIEW A-A  
(TOP PTO)**



**VIEW B-B**

**Hydraulics**

Used on S/N AW6F-4743 through S/N AW6F-5141

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Item 130		
Part No.	Length	Tractor
303941W	74 In.	CAT D5B DD & PS; D6D S/N 3X, 4X, 5X; DR TD-15C; F/H 10C; JD 750, 750B, 850, 850B w/o CAB
303944W	96 In.	CASE 1550; CAT 977L S/N 14X, D6H; D6R Series I/II; DR TD-15E, 15H; JD 750, 750B, 850, 850B w/ CAB; KOM D65EX-12, D61EX-12; Liebherr 732B; Zoomlion ZD160
347020W	96 In.	KOM D65-6,8, D68-1
303945W	120 In.	F/H 14C, FD 14; JD 750C, 750C Series II, 850C/Series II; CASE 1850K; NH DC-180
303943W	91 In.	CAT D6G; SHANTUI SD16 (*k)
303942W	82 In.	CAT 527

Direct Drive PTOs	
Tractor Code	Tractor Model
C44	Caterpillar D6D, D6E DD
K41	Komatsu D60E-6, D60E-8, D60LE-8
N46	Zoomlion ZD160
U46	Shantui SD16
X41	Xuanhua T150F

## Hydraulics

Used on S/N AW6F-4743 through S/N AW6F-5141

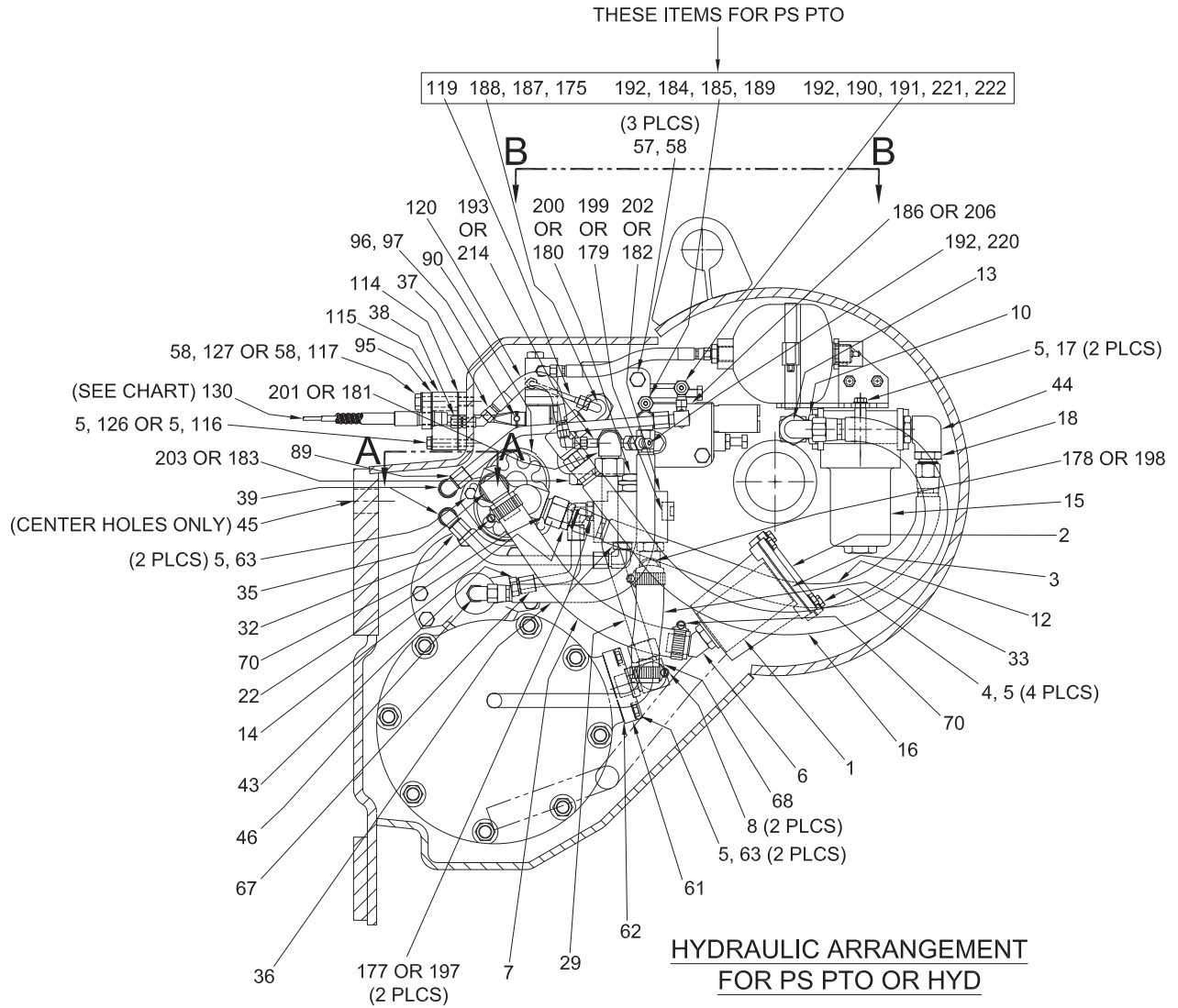
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Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	219172W	Strainer	1	127	*c 16830W	Capscrew	1
2	2300936W	Cover	1	130	See Chart	Cable, Control	1
3	2300935W	Gasket	1	151	*d 2301822W	Assembly, Tube	1
4	16805W	Capscrew	4	157	*d 2301821W	Assembly, Tube	1
5	15156W	Washer	13	160	*e 276087W	Assembly, Hose	1
6	276090W	Fitting, Hose	1	161	*e 276097W	Assembly, Hose	1
7	277226W	Assembly, Hose	1	170	*f 132009W	Assembly, Hose	1
8	127045W	Clamp, Hose	2	171	*f 2304976W	Assembly, Hose	1
9	2302963W	Pump (See 3-32)	1	172	*f 16989W	Fitting	2
10	16561W	Fitting, O-Ring	1	173	*f 17038W	Fitting	1
12	2307715W	Assembly, Hose	1	175	*g 83857W	Fitting	1
13	83857W	Fitting	1	176	*g 16987W	Fitting	1
14	16543W	Fitting, O-Ring	1	177	*g 16559W	Fitting, O-Ring	2
15	2300183W	Filter Assembly	1	178	*g 222505W	Fitting, Hose Nip	1
15	3001363W	. Element/O-Ring	1	179	*g 15316W	Fitting	1
15	55468W	. . O-Ring	1	180	*g 225232W	Adapter	1
16	165489W	Assembly, Hose	1	181	*g 225712W	Fitting, Special	1
17	16598W	Capscrew	2	182	*g 225701W	Manifold, Cooling	1
18	2310015	Valve, Check	1	183	*g 226450W	Assembly, Valve	1
19	R16271W	Accumulator	1	184	*g 225711W	Fitting, Special	1
20	2304352W	Bracket	1	185	*g 16151W	Fitting	1
21	2302109W	Clamp	1	186	*g 2300301W	Valve, Control (See 3-28)	1
22	220153	Fitting	1	187	*g 164703W	Fitting	1
24	194049W	Capscrew	2	188	*g 14500W	Fitting	1
25	222381W	Fitting, O-Ring	1	189	*g 16541W	Fitting, O-Ring	1
28	383892W	Assembly, Hose	1	190	*g 322679W	Fitting, Special	1
29	225246W	Assembly, Tube	1	191	*g 16550W	Fitting	1
32	225245W	Assembly, Tube	1	192	*g 14349W	Fitting	2
33	225703W	Assembly, Hose	1	193	*g 14668W	Fitting	1
35	2303677W	Fitting, Hose Special	1	195	*h 83857W	Fitting	1
36	88297W	Assembly, Hose	1	196	*h 16987W	Fitting	1
37	16463W	Fitting	1	197	*h 16559W	Fitting, O-Ring	2
38	16923W	Fitting	1	198	*h 222505W	Fitting, Hose Nip	1
39	16989W	Fitting	2	199	*h 15316W	Fitting	1
43	16541W	Fitting, O-Ring	1	200	*h 225232W	Adapter	1
44	2307740W	Fitting	1	201	*h 225712W	Fitting, Special	1
45	18001W	Plug	2	202	*h 225701W	Manifold, Cooling	1
46	16559W	Fitting, O-Ring	1	203	*h 226450W	Assembly, Valve	1
52	255433W	Connector	1	204	*h 225711W	Fitting, Special	1
53	14761W	Nut, Fitting	2	205	*h 16151W	Fitting	1
54	19581W	Fitting, Pipe	2	206	*h 2300301W	Valve, Control (See 3-37)	1
55	14723W	Fitting	2	207	*h 16561W	Fitting, O-Ring	1
57	198385W	Capscrew	3	208	*h 322679W	Fitting, Special	1
58	15158W	Washer	4	209	*h 2301582W	Fitting, Special	1
61	279392W	Block	1	210	*h 2301578W	Fitting, Special	1
62	196022W	Gasket	1	211	*h 17059W	Fitting	1
63	16828W	Capscrew	2	212	*h 16987W	Fitting	1
64	Y73G-0620	Capscrew	2	213	*h 14349W	Fitting	2
67	225244W	Assembly, Tube	1	214	*h 14668W	Fitting	1
68	16948W	Fitting, O-Ring	1	271	*j, *k 210848W	Assembly, Hose	1
70	209639W	Clamp, Heavy Duty	2	272	*j, *k 23396	Fitting	1
84	225233W	Connector, Special	1	273	*j, *k 2301821W	Assembly, Tube	1
89	225243W	Assembly, Tube	1				
90	177951W	Washer	2		*a	Standard Power Control Cable Anchor	
91	255434W	Assembly, Tube	1		*b	PS PTOs	
92	17309W	Fitting	1		*c	Komatsu D65-6, D65-8, D68-1	
93	130845W	Clamp, Hose	1		*d	DD PTOs	
95	303946W	Gasket	1		*e	Front PTO	
96	139W	Pin, Rod End	1		*f	Top PTO	
97	15212W	Pin	1		*g	Included in 2313297 P-Control Valve Assembly, W6F PS	
98	217206W	Fitting	1		*h	Included in 2313300 P-Control Valve Assembly, W6F DD (See Direct Drive PTO Chart on 3-24)	
114	*a 226359W	Gasket	1		*j	PTO Lube	
115	*a 226360W	Block	1		*k	First Used on S/N AW6F-4900 for Shantui SD16 (U46)	
116	*a 16379W	Capscrew	1				
117	*a 18591W	Capscrew	1				
119	*b 277663W	Assembly, Tube	1				
120	*b 140288W	Assembly, Hose	1				
126	*c 16597W	Capscrew	1				

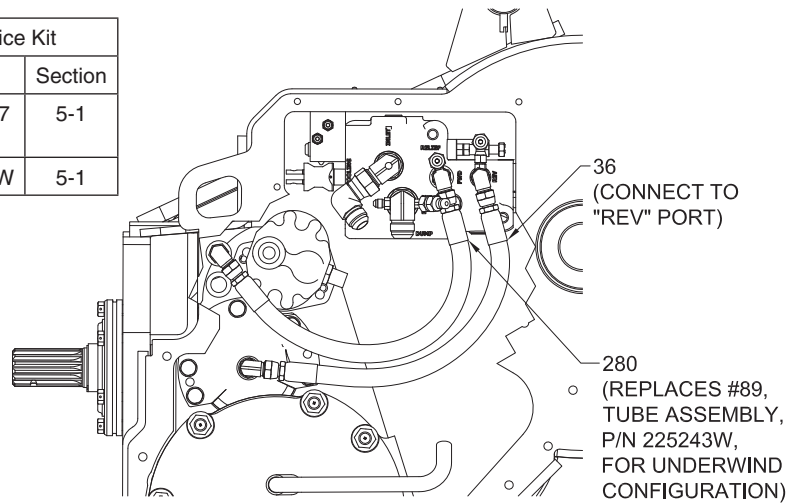
# Hydraulics

First Used on S/N AW6F-5142

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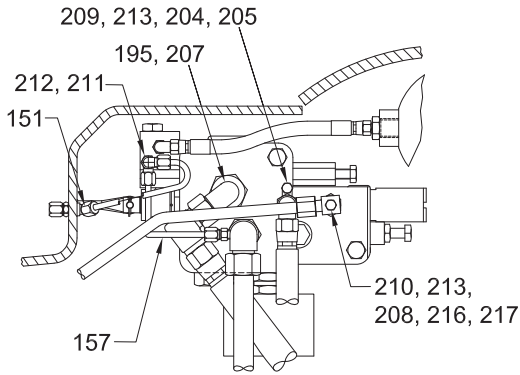
Recommended Service Kit		
Item	Kit No.	Section
3, 15 (3001363W)	2311167	5-1
3, 62, 95, 114	267494W	5-1



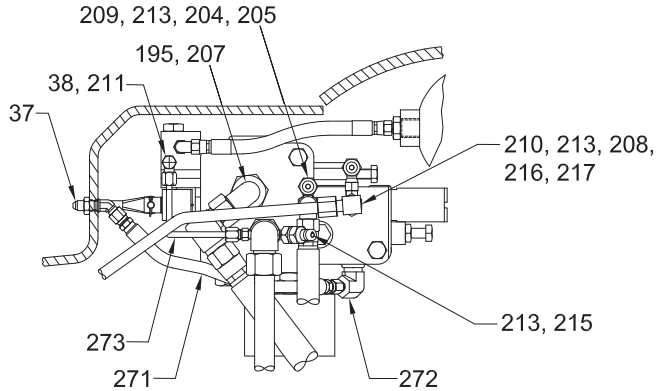
**Hydraulics**

First Used on S/N AW6F-5142

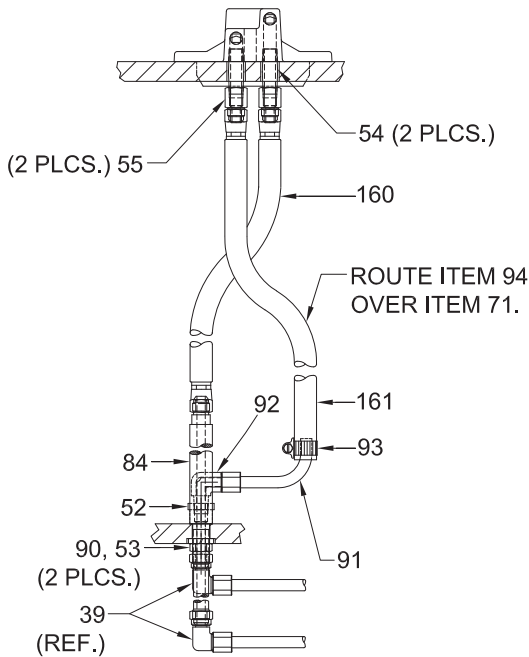
Page 2 of 4



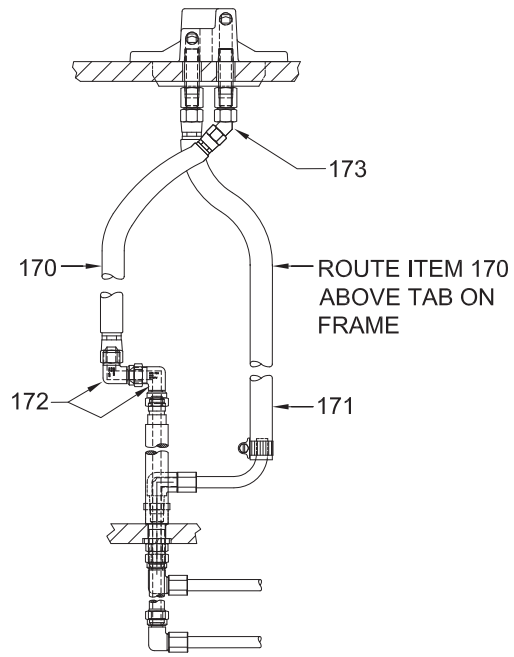
HYDRAULIC ARRANGEMENT  
FOR DD PTO  
WITHOUT PTO LUBE



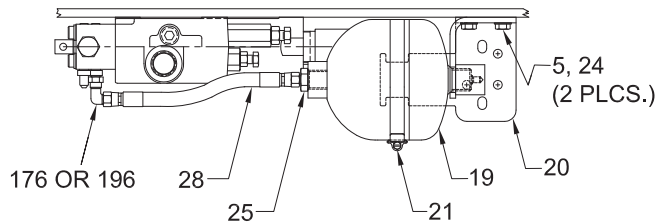
HYDRAULIC ARRANGEMENT  
FOR DD PTO  
WITH P-CONTROLS PTO LUBE  
FOR WINCHES  
WITH DROP BOXES



VIEW A-A  
(FRONT PTO)



VIEW A-A  
(TOP PTO)



VIEW B-B

**Hydraulics**

First Used on S/N AW6F-5142

Page 3 of 4

Item 130 (Qty. 1) Control Cable		
Part No.	Length	Tractor
303941W	74 In.	CAT D5B DD & PS; D6D S/N 3X, 4X, 5X; DR TD-15C; F/H 10C; JD 750, 750B, 850, 850B w/o CAB
303944W	96 In.	CASE 1550; CAT 977L S/N 14X, D6H; D6R Series I/II; DR TD-15E, 15H; JD 750, 750B, 850, 850B w/ CAB; KOM D65EX-12, D61EX-12; Liebherr 732B;
347020W	96 In.	KOM D65-6,8; D68-1
303945W	120 In.	F/H 14C, FD 14; JD 750C, 750C Series II, 850C/Series II; CASE 1850K; NH DC-180
303943W	91 In.	CAT D6G; D5R/D6N SHANTUI SD16
303942W	82 In.	CAT 527
303940W	70 In.	CAT D5R2

Direct Drive PTOs	
Tractor Code	Tractor Model
C44	Caterpillar D6D, D6E DD
K41	Komatsu D60E-6, D60E-8, D60LE-8
N46	Zoomlion ZD160
U46	Shantui SD16
X41	Xuanhua T150F

## Hydraulics

First Used on S/N AW6F-5142

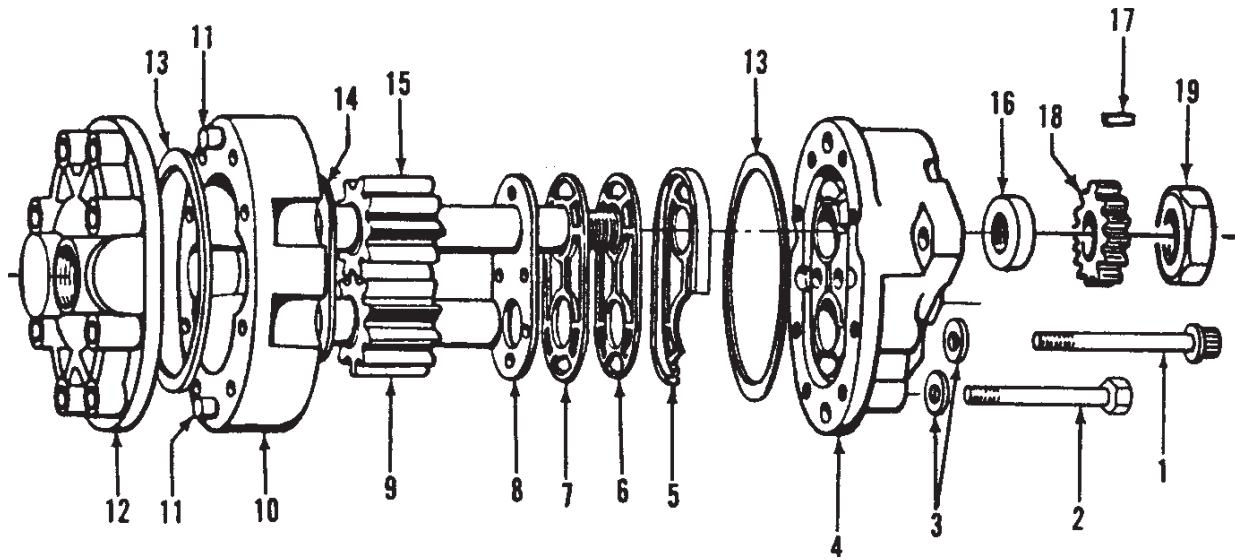
Page 4 of 4

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	219172W	Strainer	1	161	*e 276097W	Assembly, Hose	1
2	2300936W	Cover	1	170	*f 132009W	Assembly, Hose	1
3	2300935W	Gasket	1	171	*f 2304976W	Assembly, Hose	1
4	16805W	Capscrew	4	172	*f 16989W	Fitting	2
5	15156W	Washer	13	173	*f 17038W	Fitting	1
6	276090W	Fitting, Hose	1	175	*g 83857W	Fitting	1
7	277226W	Assembly, Hose	1	176	*g 16987W	Fitting	1
8	127045W	Clamp, Hose	2	177	*g 16559W	Fitting, O-Ring	2
9	2302963W	Pump (See 3-32)	1	178	*g 222505W	Fitting, Hose Nip	1
10	16561W	Fitting, O-Ring	1	179	*g 15316W	Fitting	1
12	2307715W	Assembly, Hose	1	180	*g 225232W	Adapter	1
13	83857W	Fitting	1	181	*g 2314190	Fitting, Special	1
14	16543W	Fitting, O-Ring	1	182	*g 225701W	Manifold, Cooling	1
15	2300183W	Assembly, Filter	1	183	*g 226450W	Assembly, Valve	1
15	3001363W	. Element/O-Ring	1	184	*g 225711W	Fitting, Special	1
15	55468W	. . O-Ring	1	185	*g 209405	Fitting	1
16	165489W	Assembly, Hose	1	186	*g 2300301W	Valve, Control (See 3-37)	1
17	16598W	Capscrew	2	187	*g 164703W	Fitting	1
18	2310015	Valve, Check	1	188	*g 14500W	Fitting	1
19	R16271W	Accumulator	1	189	*g 16541W	Fitting, O-Ring	1
20	2304352W	Bracket	1	190	*g 16989W	Fitting	1
21	2302109W	Clamp	1	191	*g 2314186	Fitting, Special	1
22	220153	Fitting	1	192	*g R330325	Coupler, Male	3
24	194049W	Capscrew	2	193	*g 14668W	Fitting	1
25	222381W	Fitting, O-Ring	1	195	*h 83857W	Fitting	1
28	383892W	Assembly, Hose	1	196	*h 16987W	Fitting	1
29	225246W	Assembly, Tube	1	197	*h 16559W	Fitting, O-Ring	2
32	225245W	Assembly, Tube	1	198	*h 222505W	Fitting, Hose Nip	1
33	225703W	Assembly, Hose	1	199	*h 15316W	Fitting	1
35	2303677W	Fitting	1	200	*h 225232W	Adapter	1
36	88297W	Assembly, Hose	1	201	*h 2314190	Fitting, Special	1
37	16463W	Fitting	1	202	*h 225701W	Manifold, Cooling	1
38	16923W	Fitting	1	203	*h 226450W	Assembly, Valve	1
39	16989W	Fitting	2	204	*h 225711W	Fitting, Special	1
43	16541W	Fitting, O-Ring	1	205	*h 209405	Fitting	1
44	2307740W	Fitting	1	206	*h 2300301W	Valve, Control (See 3-37)	1
45	18001W	Plug	2	207	*h 16561W	Fitting, O-Ring	1
46	16559W	Fitting, O-Ring	1	208	*h 16989W	Fitting, Special	1
52	255433W	Connector	1	209	*h 2301582W	Fitting, Special	1
53	14761W	Nut, Fitting	2	210	*h 2314194	Fitting, Special	1
54	19581W	Fitting, Pipe	2	211	*h 17059W	Fitting	1
55	14723W	Fitting	2	212	*h 16987W	Fitting	1
57	198385W	Capscrew	3	213	*h R330325	Coupler, Male	3
58	15158W	Washer	4	214	*h 14668W	Fitting	1
61	279392W	Block	1	215	*h 209790	Fitting	1
62	196022W	Gasket	1	216	*h 209790	Fitting	1
63	16828W	Capscrew	4	217	*h 212718	Fitting	1
67	225244W	Assembly, Tube	1	220	*g 209790	Fitting	1
68	16948W	Fitting, O-Ring	1	221	*g 209750	Fitting	1
70	209639W	Clamp, Heavy Duty	2	222	*g 212718	Fitting	1
84	225233W	Connector, Special	1	271	*j, *k 210848W	Assembly, Hose	1
89	225243W	Assembly, Tube	1	272	*j, *k 23396	Fitting	1
90	177951W	Washer	2	273	*j, *k 2301821W	Assembly, Tube	1
91	255434W	Assembly, Tube	1	280	*m 88297W	Assembly, Hose	1
92	17309W	Fitting	1				
93	130845W	Clamp, Hose	1		*a	Standard Power Control Cable Anchor	
95	303946W	Gasket	1		*b	PS PTOs	
96	139W	Pin, Rod End	1		*c	Komatsu D65-6, D65-8, D68-1	
97	15212W	Pin	1		*d	DD PTOs	
114	*a 226359W	Gasket	1		*e	Front PTO	
115	*a 226360W	Block	1		*f	Top PTO	
116	*a 16379W	Capscrew	1		*g	Included in 2313297 P-Control Valve Assembly, W6F PS	
117	*a 18591W	Capscrew	1				
119	*b 277663W	Assembly, Tube	1		*h	Included in 2313300 P-Control Valve Assembly, W6F DD (See Direct Drive PTO Chart on 3-28)	
120	*b 140288W	Assembly, Hose	1				
126	*c 16597W	Capscrew	1		*j	PTO Lube	
127	*c 16830W	Capscrew	1		*k	First Used on S/N AW6F-4900 for Shantui SD16 (U46)	
130	See Chart	Cable, Control	1				
151	*d 2301822W	Assembly, Tube	1		*m	CAT D6R2 (C711)	
157	*d 2301821W	Assembly, Tube	1				
160	*e 276087W	Assembly, Hose	1				



## Hydraulic Pump

Last Used on S/N W6F-4584

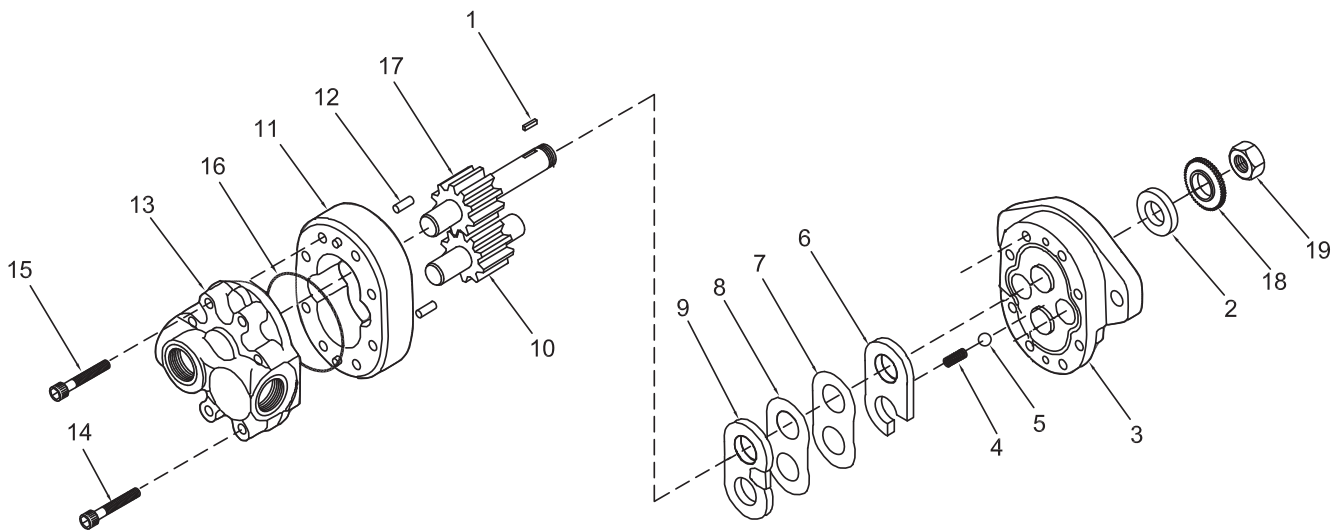


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>225235W</b>	<b>Pump</b>	<b>1</b>	13	*a	NSS . O-Ring	2
1	NSS	. Capscrew	2	14	*a	NSS . Plate, Thrust	1
2	NSS	. Capscrew	6	15	NSS	. Gear, Drive	1
3	NSS	. Washer	8	15	NSS	. Gear	1
4	NSS	. Cover, Front	1	15	NSS	. Shaft	1
5	*a	NSS . V-Seal	1	15	257338W	. Key	1
6	*a	NSS . Gasket	1	15	NSS	. Ring, Retainer	2
7	*a	NSS . Shield, Heat	1	16	*a	NSS . Seal	1
8	*a	NSS . Plate, Wear	1	17	257341W	. Key	1
9	NSS	. Gear, Driven	1	18	224796W	Pinion, Pump	1
10	NSS	. Section, Center	1	19	138750W	Locknut	1
11	NSS	. Pin, Dowel	2				
12	NSS	. Cover, Back	1		*a	Included in Repair Kit 301978W	



### Hydraulic Pump

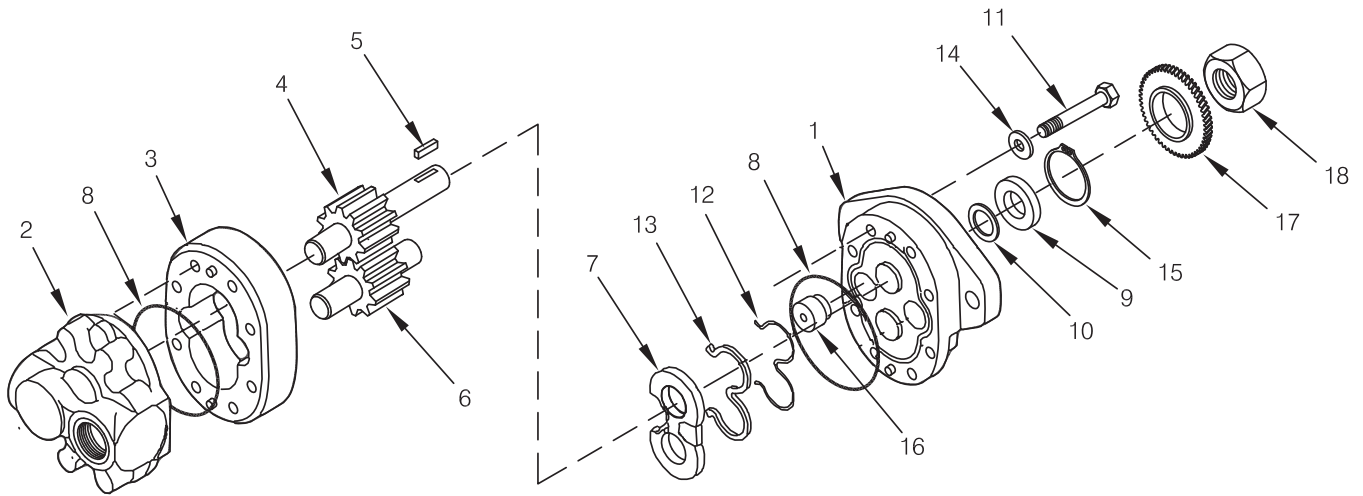
Used on S/N W6F-4585 and Up, and on S/N AW6F-1001 through S/N AW6F-4321



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>314833W</b>	<b>Pump</b>	<b>1</b>	11	NSS	. Body	1
1	316823W	. Key	1	12	NSS	. Pin, Dowel	2
2	*a NSS	. Seal	1	13	NSS	. Plate, Back	1
3	NSS	. Plate, Front	1	14	NSS	. Capscrew	4
4	*a NSS	. Spring	2	15	NSS	. Capscrew	4
5	*a NSS	. Ball	2	16	*a NSS	. O-Ring	1
6	*a NSS	. Seal, Diaphragm	1	17	NSS	. Gear, Drive	1
7	*a NSS	. Gasket	1	18	224796W	Pinion, Pump	1
8	*a NSS	. Gasket, Back-up	1	19	138750W	Locknut	1
9	*a NSS	. Diaphragm	1				
10	NSS	. Gear, Idler	1		*a	Included in Repair Kit 171252W	

## Hydraulic Pump

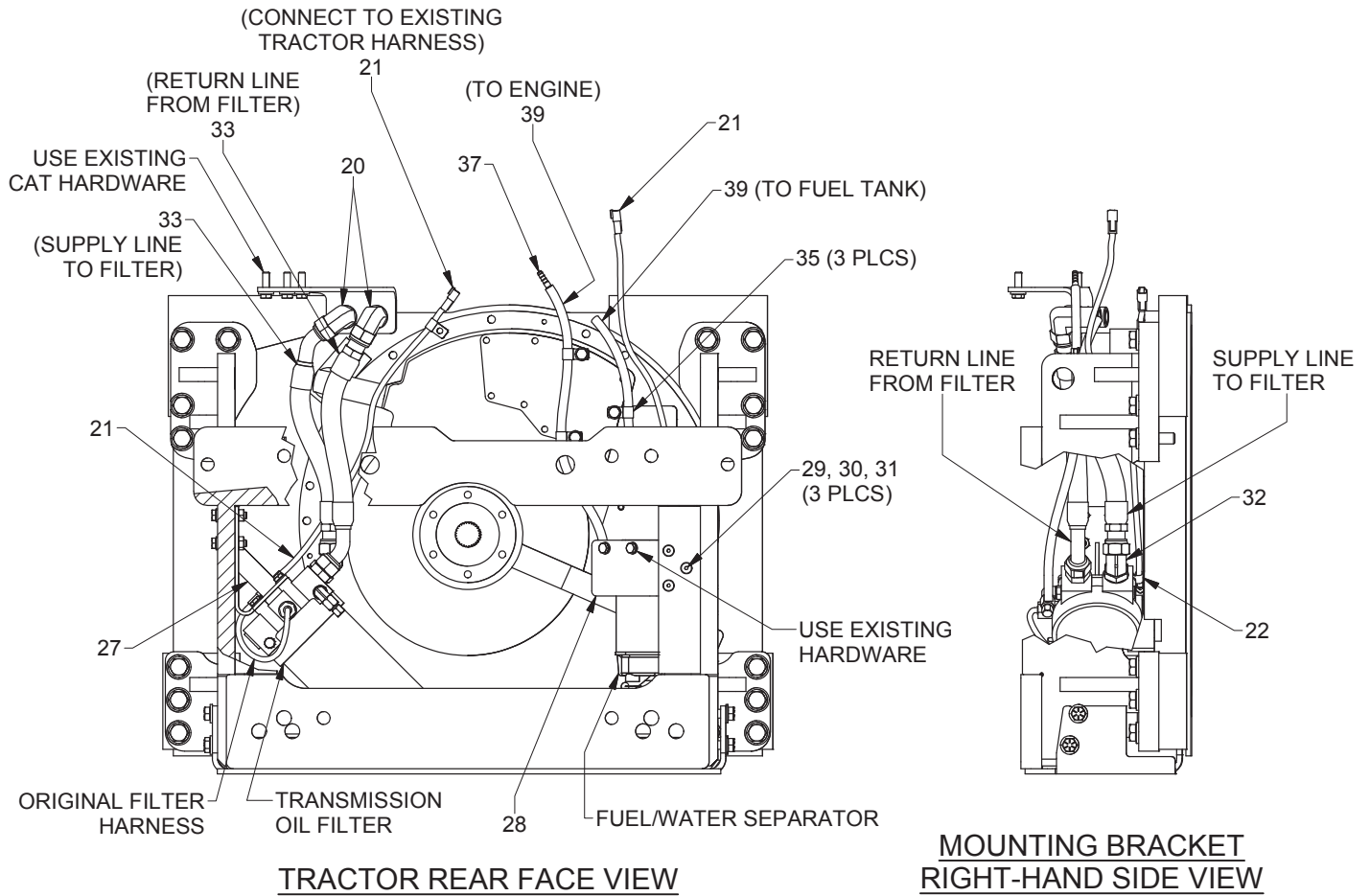
First Used on S/N AW6F-4322



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2302963W</b>	<b>Pump</b>	<b>1</b>				
1	NSS	. Plate, Front	1	11	NSS	. Capscrew	4
2	NSS	. Plate, Back	1	12	*a	NSS	. Gasket
3	NSS	. Body	1	13	*a	NSS	. Seal
4	NSS	. Gear, Drive	1	14	NSS	. Washer	4
5	316823W	. Key	1	15	NSS	. Ring, Retaining	1
6	NSS	. Gear, Idler	1	16	NSS	. Plug	1
7	*a	NSS	. Plate, Wear	1	17	224796W	Pinion, Pump
8	*a	NSS	. O-Ring	1	18	138750W	Locknut
9	*a	NSS	. Seal				
10	*a	NSS	. Washer		*a	Included in Repair Kit 2302937W	

## Tractor Filter Relocation

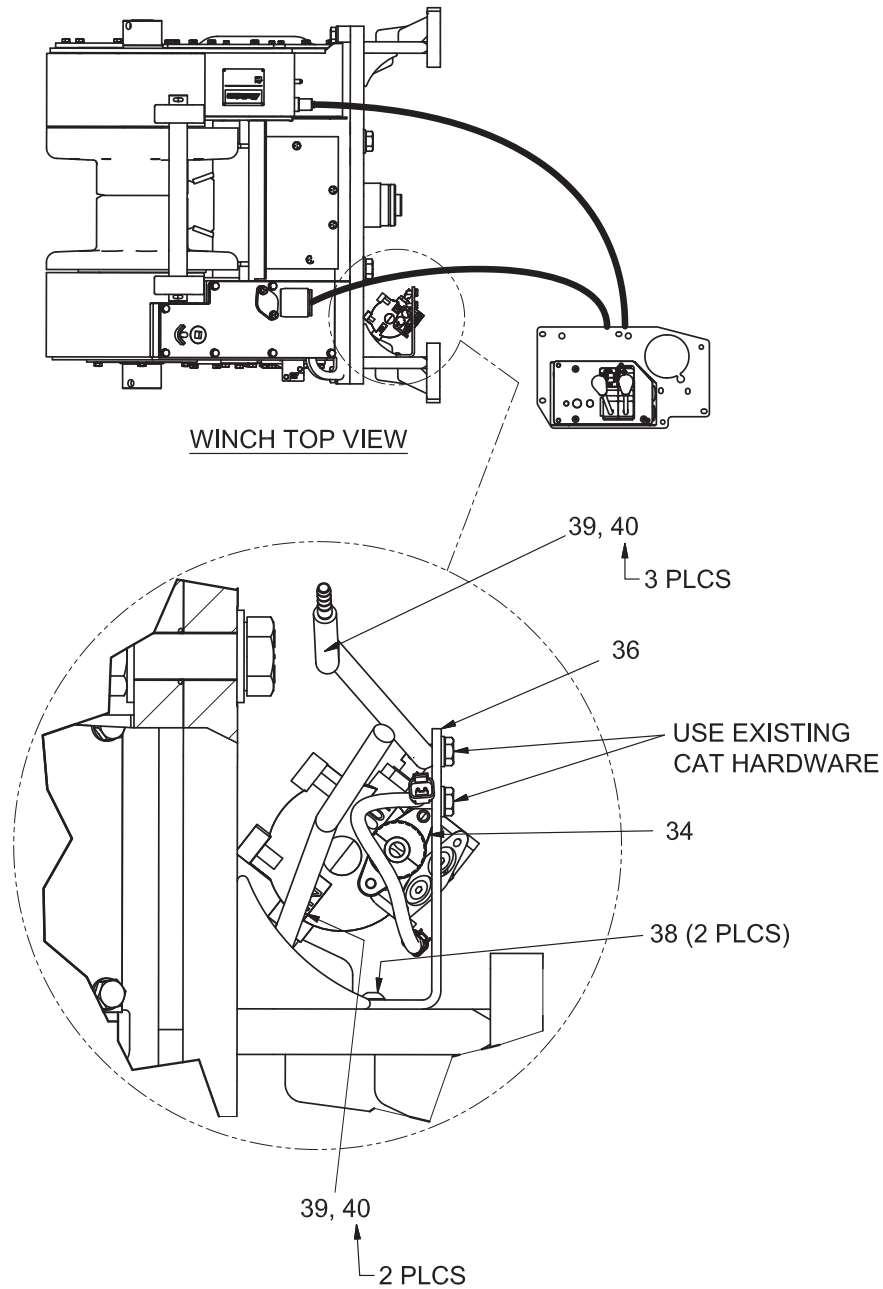
Caterpillar D5R & D6N (C81)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
20	2305620W	Fitting	2	31	15056W	Nut	3
21	2305617W	Harness, Filter	2	32	R833217	Fitting	1
22	243057	Clamp	2	33	2314742	Assembly, Hose	2
27	2314735	Bracket, Mounting	1	35	387316W	Clamp	3
28	2307894W	Plate, Mounting	1	37	2306858W	Fitting	1
29	Y09G-0616	Capscrew	3	38	18738W	Capscrew	2
30	15134W	Washer	3	39	2306857W	Hose, Fuel	2

### Fuel/Water Separator Relocation

For Tractors with Optional Electric Primer Pump  
Caterpillar D5R & D6N (C81)

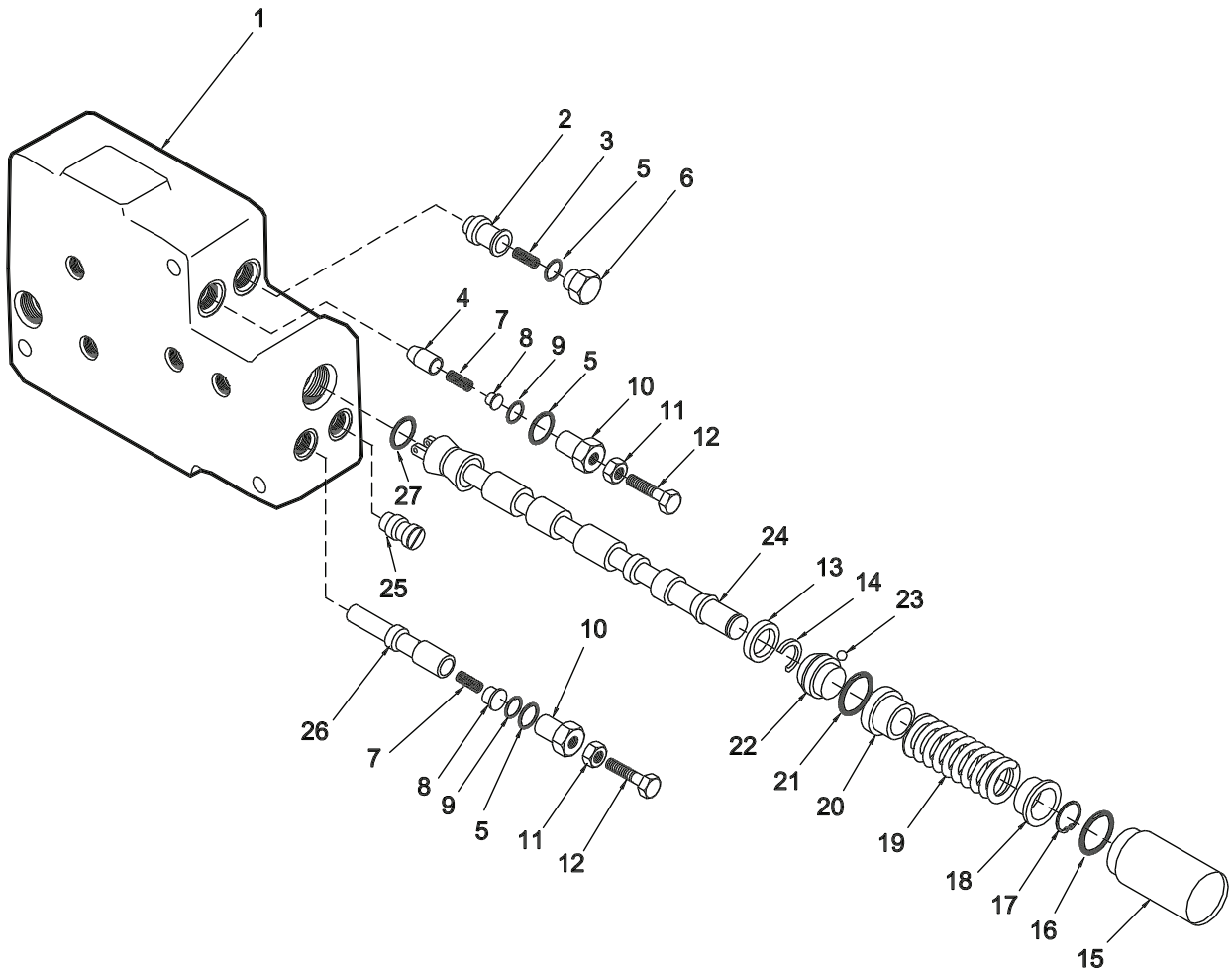


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
34	2307911W	Gasket, Fuel Primer	1	39	2306857W	Hose, Fuel	2
36	2306836W	Bracket, Mounting	1	40	166857W	Clamp	5
38	18738W	Capscrew	2				

### Control Valve

Power Control

Last Used on S/N W6F-2000

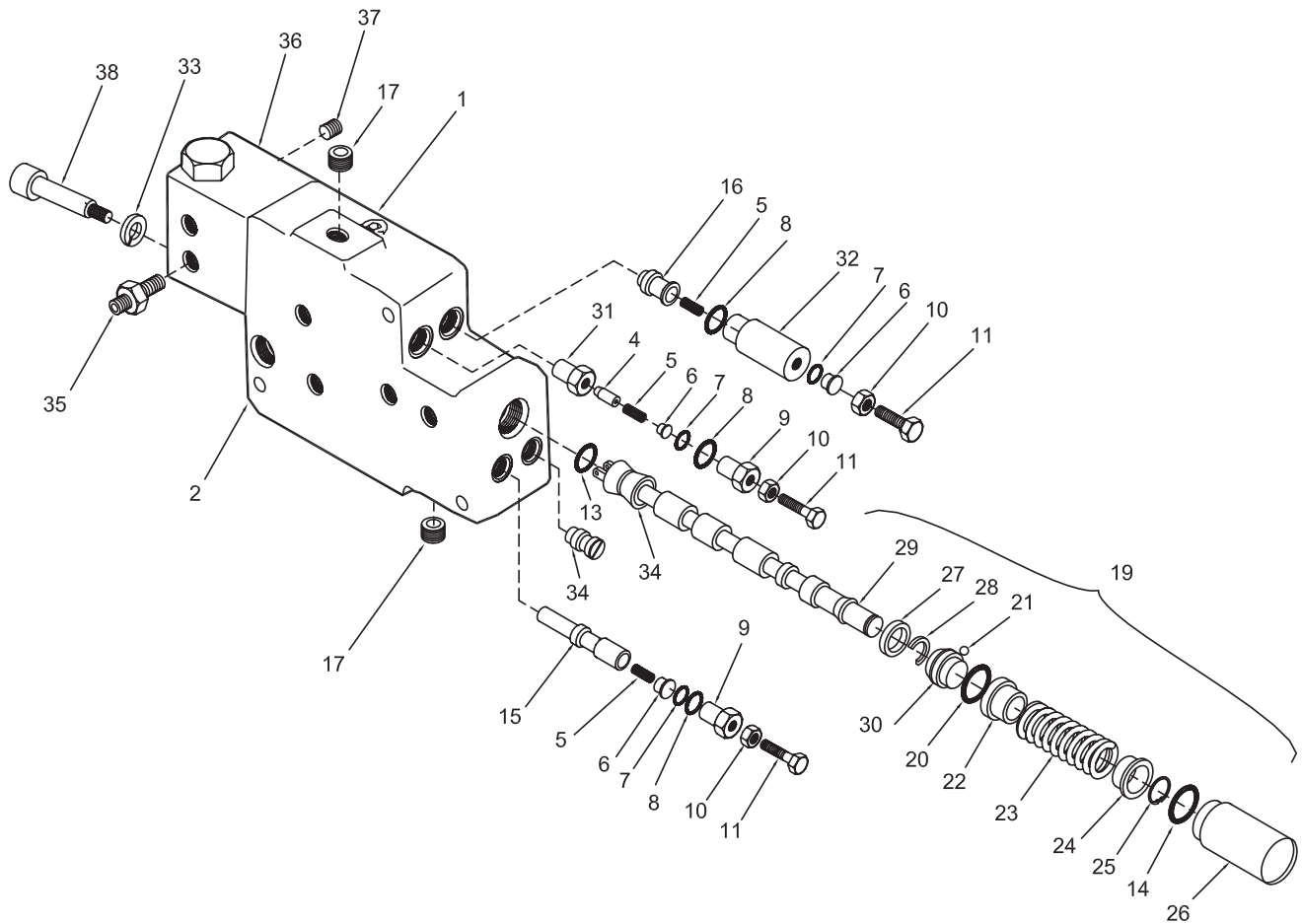


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>262325W</b>	<b>Valve, Control</b>	<b>1</b>				
1	262080W	. Body, Valve	1	15	196009W	. Cap, Spool	1
2	196006W	. Spool, Forward Mod	1	16	39376W	. O-Ring	1
3	196013W	. Spring	1	17	196002W	. Ring, Snap	1
4	195991W	. Plunger, Relief	1	18	166905W	. Retainer, Spring	1
5	16484W	. O-Ring	3	19	166911W	. Spring, Spool	1
6	196007W	. Plug	1	20	238992W	. Spacer	1
7	195992W	. Spring, Relief	2	21	118365W	. O-Ring	1
8	195993W	. Plug	2	22	195997W	. Retainer, Detent	1
9	15860W	. O-Ring	2	23	170987W	. Ball	8
10	196004W	. Fitting	2	24	258217W	. Spool	1
11	15027W	. Nut, Jam	2	25	233492W	. Cap	1
12	195995W	. Capscrew	2	26	196003W	. Spool, Reverse Mod	1
13	258220W	. Ring	1	27	118361W	. O-Ring	1
14	196000W	. Ring	1				

### Control Valve

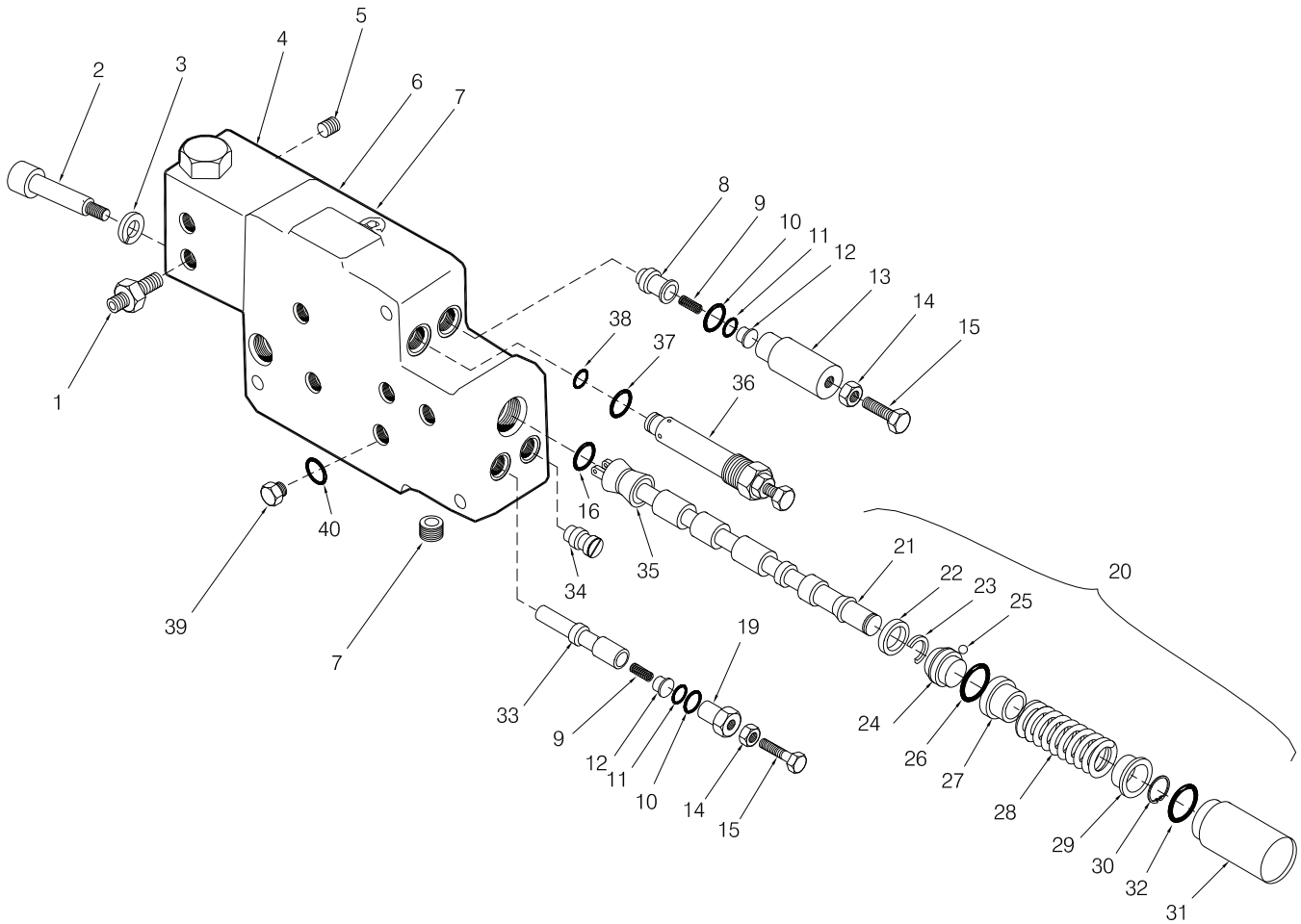
Power Control

First Used on S/N W6F-2001 and Up, and on S/N AW6F-1001 Through S/N AW6F-1962



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>279394W</b>	<b>Valve, Control</b>	<b>1</b>				
1	276098W	. Valve, Control	1	21	170987W	... Ball	8
2	262080W	.. Body, Valve	1	22	238992W	... Spacer	1
4	195991W	.. Plunger, Relief	1	23	166911W	... Spring, Spool	1
5	195992W	.. Spring, Relief	2	24	166905W	... Retainer, Spring	1
6	195993W	.. Plug	3	25	196002W	... Ring, Snap	1
7	15860W	.. O-Ring	3	26	196009W	... Cap, Spool	1
8	16484W	.. O-Ring	3	27	258220W	... Ring	1
9	196004W	.. Fitting	3	28	196000W	... Ring	1
10	15027W	.. Nut, Jam	3	29	258217W	... Spool	1
11	195995W	.. Capscrew	2	30	195997W	... Retainer, Detent	1
13	118361W	.. O-Ring	1	31	195990W	.. Seat, Relief	1
14	39376W	.. O-Ring	1	32	226445W	.. Fitting	1
15	196003W	.. Spool, Reverse Mod.	1	33	15156W	. Lockwasher	1
16	196006W	.. Spool, Forward Mod.	1	34	68370W	. Pin, Slotted	1
17	15962W	.. Fitting	2	34	279397W	. Cam	1
18	15314W	.. Fitting	1	35	14668W	. Fitting	2
19	262088W	.. Spool, PFR	1	36	267018W	. Valve	1
20	118365W	... O-Ring	1	37	15483W	. Fitting	2

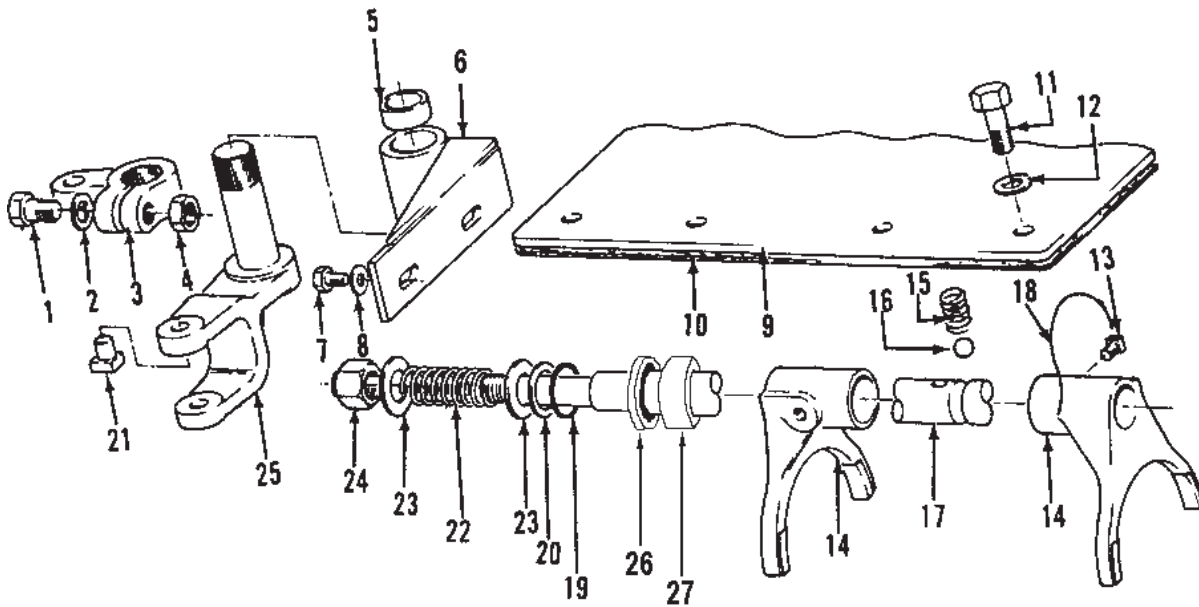
**Control Valve**  
 Power Control  
 First Used on S/N AW6F-1963



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2300301W</b>	<b>Valve, Control</b>	<b>1</b>				
1	14668W	. Fitting	2	23	196000W	.. Ring	1
2	241778W	. Screw	2	24	195997W	.. Retainer, Detent	1
3	15156W	. Lockwasher	2	25	170987W	.. Ball	8
4	267018W	. Valve	1	26	118365W	.. O-Ring	1
5	15483W	. Fitting	2	27	238992W	.. Spacer	1
6	262080W	. Body, Valve	1	28	166911W	.. Spring, Spool	1
7	15962W	. Fitting	2	29	166905W	.. Retainer, Spring	1
8	196006W	. Spool, Forward Mod	1	30	196002W	.. Ring, Snap	1
9	195992W	. Spring, Relief	2	31	196009W	.. Cap, Spool	1
10	16484W	. O-Ring	2	32	39376W	. O-Ring	1
11	15860W	. O-Ring	2	33	196003W	.. Spool, Reverse Mod	1
12	195993W	. Plug	1	34	15314W	. Fitting	1
13	226445W	. Fitting	2	35	279397W	. Cam	1
14	15027W	. Nut, Jam	2	35	68370W	. Pin, Slotted	1
15	195995W	. Capscrew	2	36	2300308W	. Relief	1
16	118361W	. O-Ring	1	37	16484W	.. O-Ring	1
19	196004W	. Fitting	1	38	265787W	.. O-Ring	1
20	262088W	. Spool, PFR	1	39	14595W	. Fitting	1
21	258217W	.. Spool	1	40	209744	.. O-Ring	1
22	258220W	.. Ring	1				

# Shifter Linkage

Direct Drive

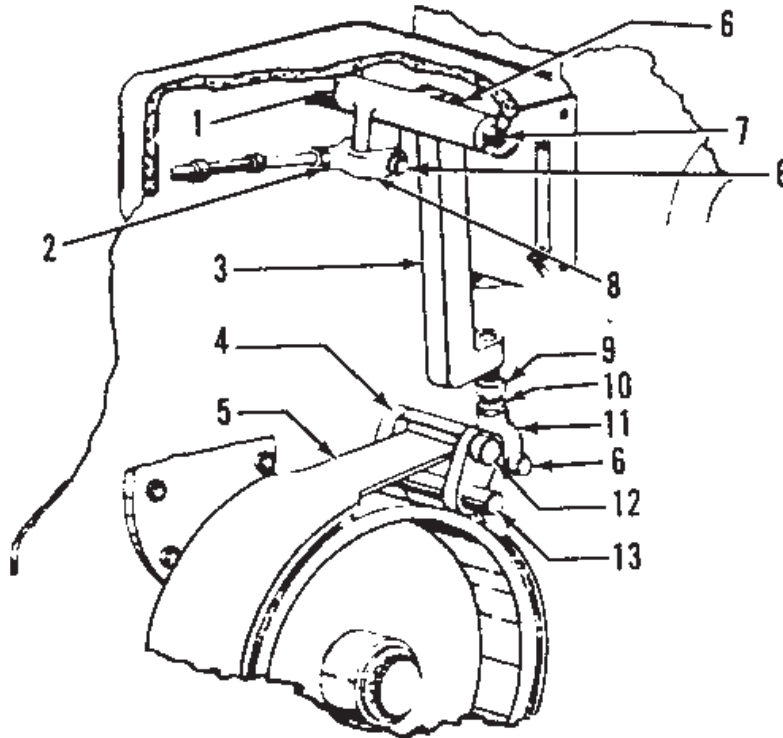


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>95987W</b>	<b>Crank</b>	<b>1</b>				
1	16594W	. Capscrew	1	16	6348W	Ball	1
2	15156W	. Lockwasher	1	17	95949W	Shaft, Shift	1
3	95988W	. Crank	1	18	67355W	Wire	2
4	15006W	. Nut, Hex	1	19	44551W	Seal, Oil	1
5	95615W	. Bushing	2	20	33681W	Washer	1
6	187452W	Bracket	1	21	33717W	Shoe	2
7	16377W	Capscrew	2	22	95950W	Spring	1
8	15157W	Lockwasher	2	23	33682W	Washer	2
9	224798W	Cover, Trans	1	24	60137W	Locknut	1
10	224799W	Gasket	1	25	95636W	Crank, Shifter	1
11	178402W	Capscrew	10	26	*a 2300195W	Seal	1
12	15158W	Lockwasher	10	27	*a 2300196W	Bushing	1
13	27936W	Screw	2				
14	95951W	Fork, Shifter	2				
15	96545W	Spring	1				
				*a	First Used on S/N AW6F-1762		



# Brake Linkage

Direct Drive

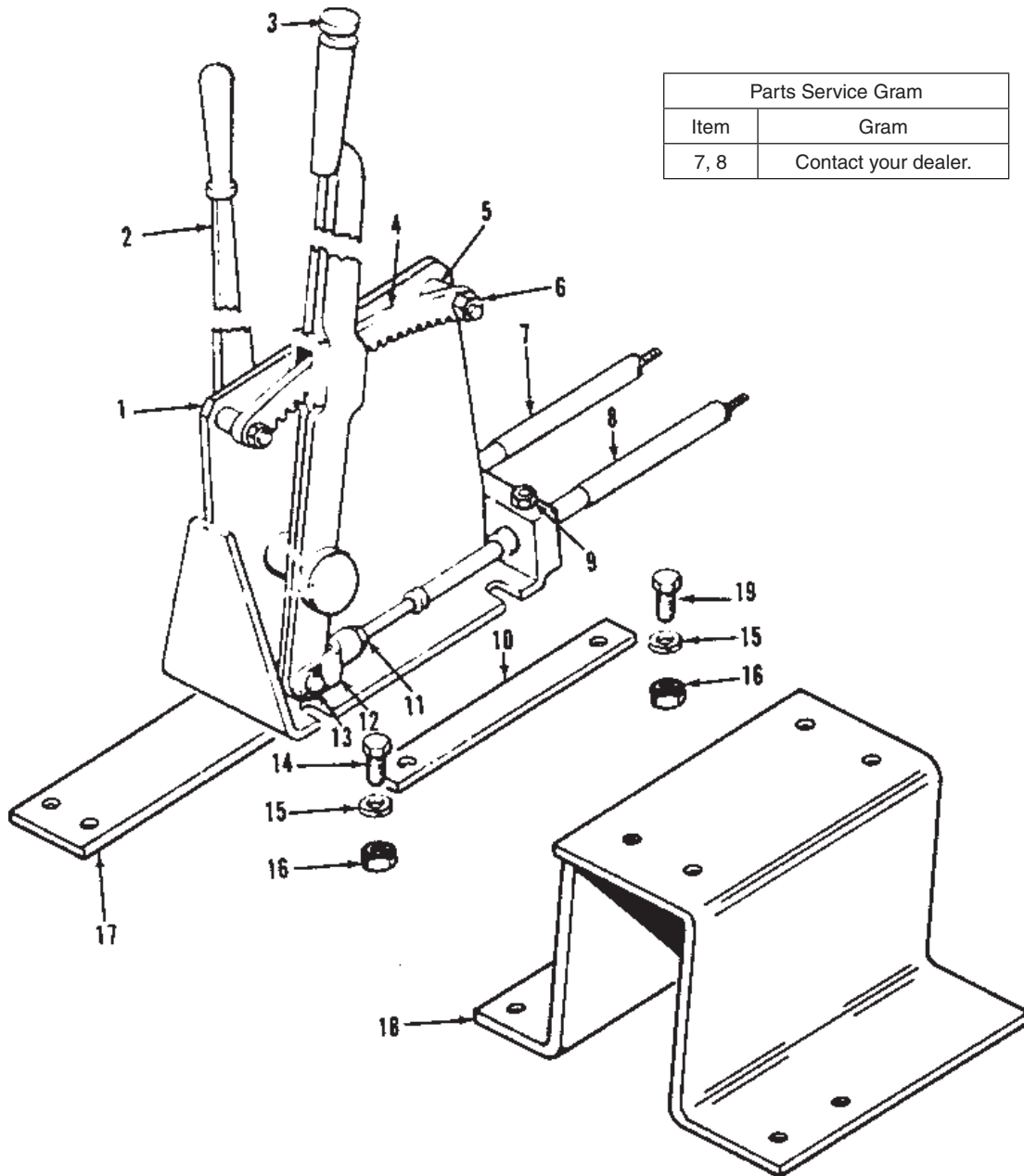


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	77114W	Crank	1	7	187639W	Pin	1
1	92705W	. Bushing, Split	2	8	92683W	End, Rod	2
2	15026W	Nut, Jam	2	9	76696W	Link, Adjuster	1
3	76697W	Link, Brake	1	10	15030W	Nut, Jam	1
4	76695W	Lever	1	11	91629W	End, Rod	1
4	104607W	. Bushing	4	12	96725W	Pin	1
5	*a 128386W	Band, Brake	1	12	15226W	Pin, Cotter	1
5	*a 96300W	. Set, Lining	1	13	128383W	Pin, Brake	1
5	*b 2300067W	Band, Brake	1				
5	*b 2300185W	. Set, Lining	1				
6	159W	Pin, Rod End	2				
6	15223W	Pin, Cotter	2				

\*a Last Used on S/N W6F-1700 and S/N AW6F-1000  
 \*b First Used on S/N W6F-1701 and S/N AW6F-1001

### Control Levers

Direct Drive  
 Last Used on S/N AW6F-3882  
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Parts Service Gram	
Item	Gram
7, 8	Contact your dealer.

## Control Levers

Direct Drive

Last Used on S/N AW6F-3882

Page 2 of 2

Tractor Model	Item 14		Item 16		Item 15		Item 8		Item 7		Item 19	
	Capscrew	Qty	Nut	Qty	Washer-Lock	Qty	Cable-Brake	Qty	Cable-Shift	Qty	Capscrew	Qty
Caterpillar D5B	16813W	4	15058W	4	15158W	4	96240W	1	96419W	1	-----	--
Caterpillar D6D	16830W	8	15058W	8	15158W	8	125629W	1	123422W	1	-----	--
Dresser TD-15B/G	16085W	4	15058W	4	15158W	4	96419W	1	96241W	1	-----	--
Komatsu D60E-6	18588W	3	15058W	3	15158W	3	96419W*	1	96419W*	1	-----	--
Komatsu D70	18588W	3	15058W	3	15158W	3	2301666W**	1	2301666W**	1	-----	--
Fiat Allis 11B	16805W	4	15058W	4	15158W	4	96419W	1	96419W	1	-----	--
Fiat Allis 14B	18588W	3	15058W	3	15158W	3	125629W	1	123422W	1	-----	--
Fiat Allis 14C	18588W	2	15058W	4	15158W	4	95751W	1	95751W	1	16805W	2

\* Vertical Mount w/ Internal Code: N;

\*\* Horizontal Mount w/ Internal Code: M

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	178576W	Bracket	1	10	*a 294069W	Spacer	1
2	95750W	Lever, Shift	1	11	15026W	Nut, Jam	4
2	58907W	Ring, Snap	2	12	92683W	Rod End	4
2	90267W	Washer	2	13	159W	Pin, Rod End	4
3	77187W	Assembly, Control Lever	1	13	15223W	Pin, Cotter	4
3	79416W	. Pawl/Rod	1	14	*d -----	Capscrew	AR
3	79417W	. Spring	1	15	*d -----	Lockwasher	AR
3	79418W	. Button	1	16	*d -----	Nut	AR
4	77188W	Bar, Quadrant	1	17	*b 294072W	Plate	1
5	94891W	Spacer	2	18	*c 339489W	Bracket	1
6	16379W	Capscrew	2	19	*d -----	Capscrew	AR
6	15156W	Lockwasher	2				
6	15056W	Nut	2		*a Fiat-Allis 14C		
7	*d -----	Cable, Control	AR		*b Caterpillar D5B		
8	*d -----	Cable, Brake	AR		*c Caterpillar D6D		
9	16212W	Screw	2		*d See Chart		
9	15086W	Nut, Jam	2				

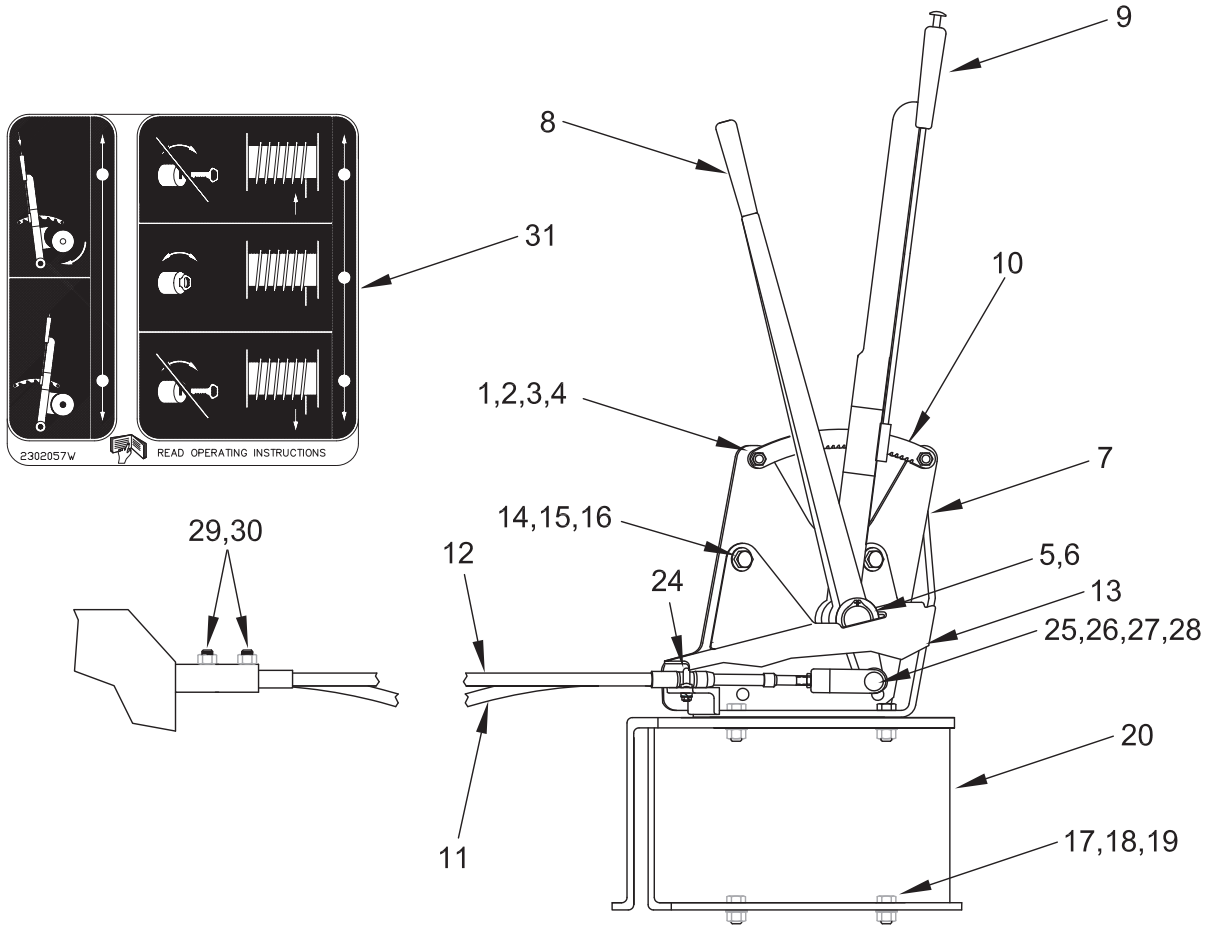
### Control Levers

Direct Drive

Caterpillar

First Used on S/N AW6F-3883

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**Control Levers**

Direct Drive

Caterpillar

First Used on S/N AW6F-3883

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2302014W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2300388W	. Spacer	2	16	398817W	Screw, Flange	2
2	16379W	. Capscrew	2	17	16830W	Capscrew	8
3	15156W	. Washer	2	18	15158W	Washer	8
4	15056W	. Nut	2	19	15058W	Nut	8
5	90267W	. Washer	3	20	339489W	Bracket, Mounting	1
6	58907W	. Snap Ring	3	24	2300995W	Kit, U-Bolt	2
7	2302015W	. Bracket	1		-----	. U-Bolt	1
8	95750W	. Lever, Shift	1		-----	. Plate, Cup	1
9	77187W	. Assembly, Control Lever	1		-----	. Plate	1
9	79416W	.. Pawl/Rod	1		-----	. Washer, Star	2
9	79417W	.. Spring	1		-----	. Nut	2
9	79418W	.. Button	1	25	92683W	Rod End	4
10	77188W	. Bar, Quadrant	1	26	15026W	Nut, Jam	2
11	125629W	Cable, Brake	1	27	159W	Pin, Rod End	4
12	123422W	Cable, Control	1	28	15223W	Pin, Cotter	4
13	2302013W	Cover	1	29	16212W	Setscrew	2
14	15158W	Washer	2	30	15086W	Nut	2
15	15058W	Nut	2	31	2302057W	Decal	1

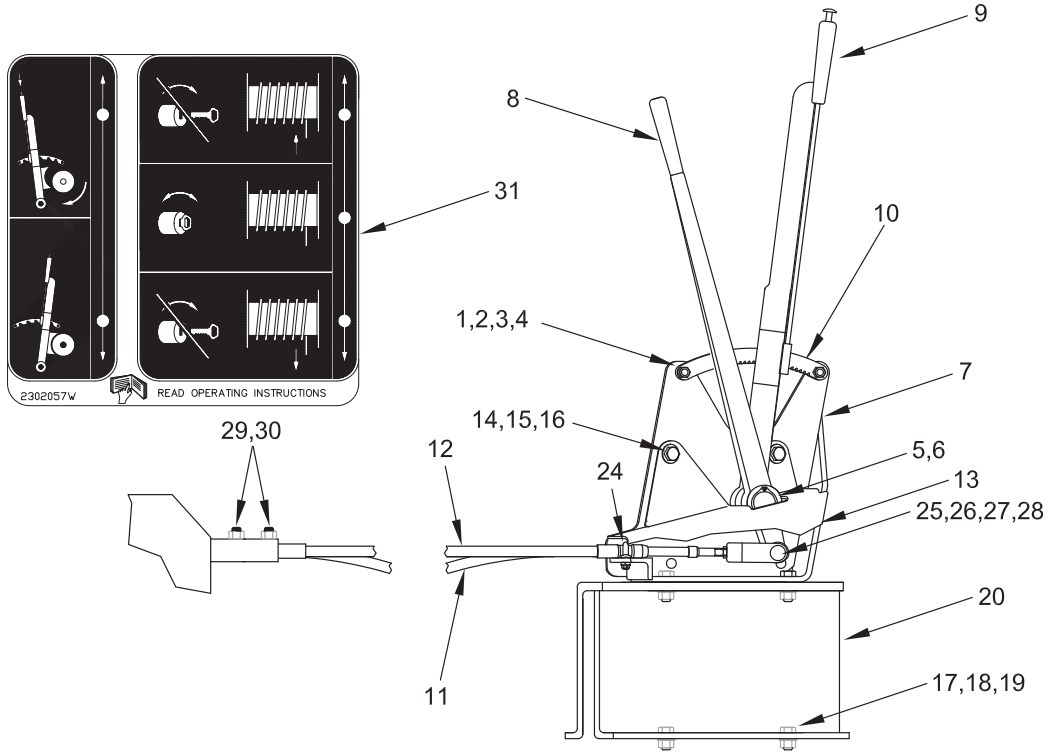
### Control Levers

Direct Drive

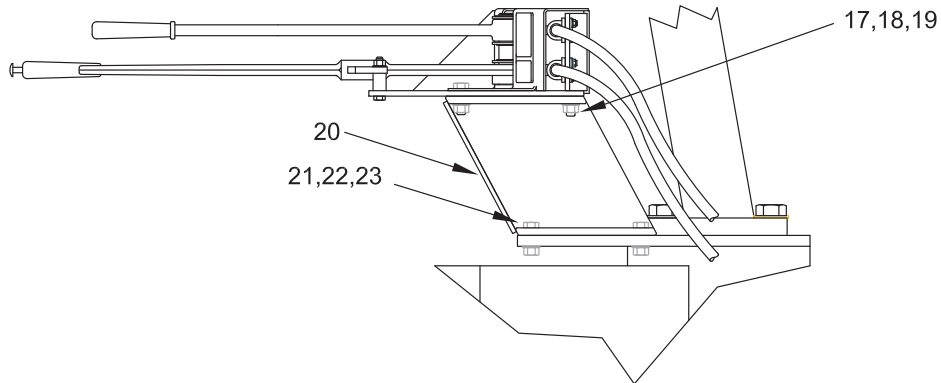
Komatsu

First Used on S/N AW6F-3883

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VERTICAL MOUNT



HORIZONTAL MOUNT

**Control Levers**

Direct Drive

Komatsu

First Used on S/N AW6F-3883

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2302014W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2300388W	. Spacer	2	18	15158W	Washer	8
2	16379W	. Capscrew	2	19	15058W	Nut	8
3	15156W	. Washer	2	20	*b 2302300W	Bracket, Mounting	1
4	15056W	. Nut	2	21	*b 15158W	Washer	4
5	90267W	. Washer	3	22	*b 16085W	Capscrew	4
6	58907W	. Snap Ring	3	23	*b 15058W	Nut	4
7	2302015W	. Bracket	1	24	2300995W	Kit, U-Bolt	2
8	95750W	. Lever, Shift	1		-----	. U-Bolt	1
9	77187W	. Assembly, Control Lever	1		-----	. Plate, Cup	1
9	79416W	. . Pawl/Rod	1		-----	. Plate	1
9	79417W	. . Spring	1		-----	. Star	2
9	79418W	. . Button	1		-----	. Washer, Nut	2
10	77188W	. Bar, Quadrant	1	25	92683W	Rod End	4
11	*a 96419W	Cable, Brake	1	26	15026W	Nut, Jam	2
11	*b 2301666W	Cable, Brake	1	27	159W	Pin, Rod End	4
12	*a 96419W	Cable, Control	1	28	15223W	Pin, Cotter	4
12	*b 2301666W	Cable, Control	1	29	16212W	Setscrew	2
13	2302013W	Cover	1	30	15086W	Nut	2
14	15158W	Washer	2	31	2302057W	Decal	1
15	15058W	Nut	2				
16	398817W	Screw, Flange	2		*a	Komatsu Vertical Mount	
17	18588W	Capscrew	4		*b	Komatsu Horizontal Mount	

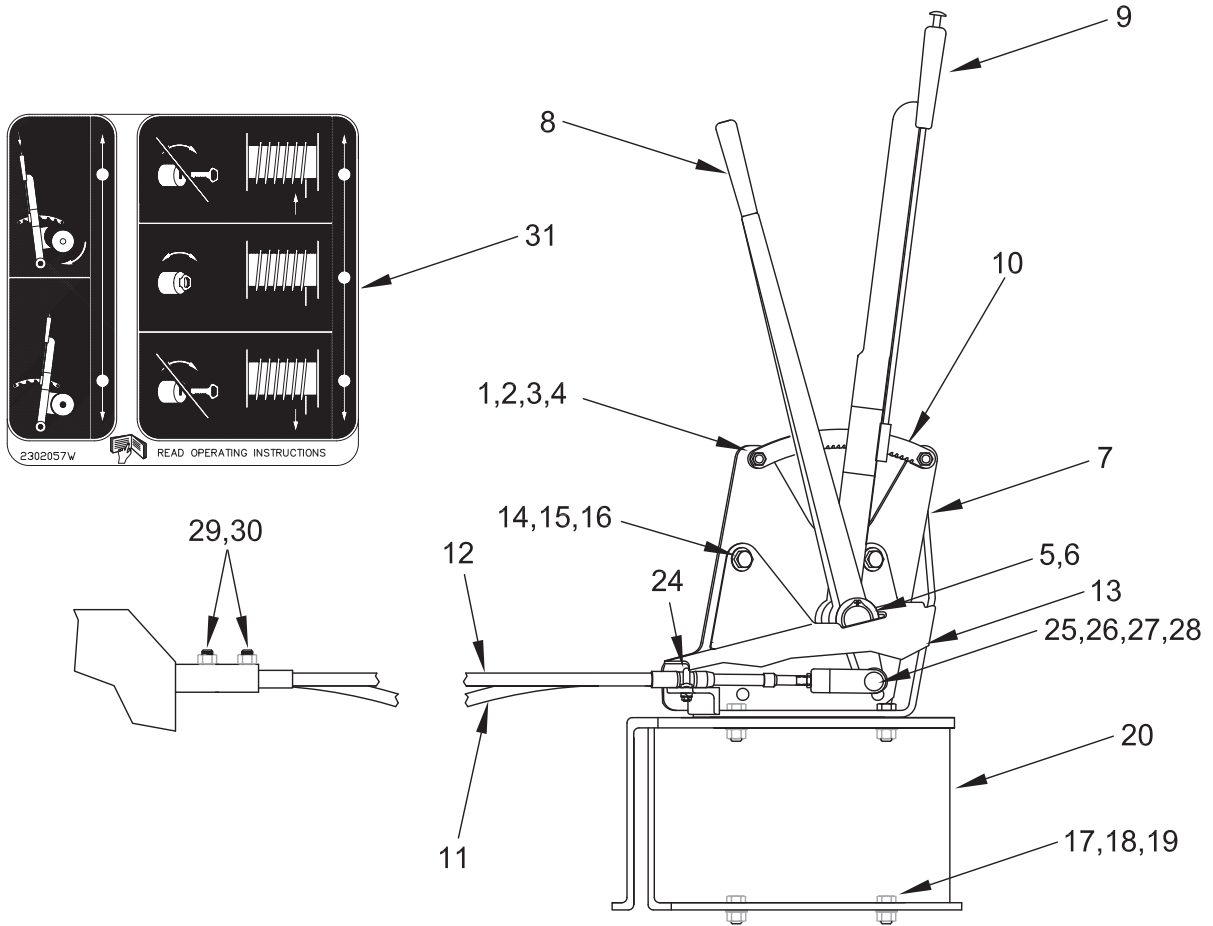
### Control Levers

Direct Drive

Xuanhua

First Used on S/N AW6F-3883

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**Control Levers**

Direct Drive

Xuanhua

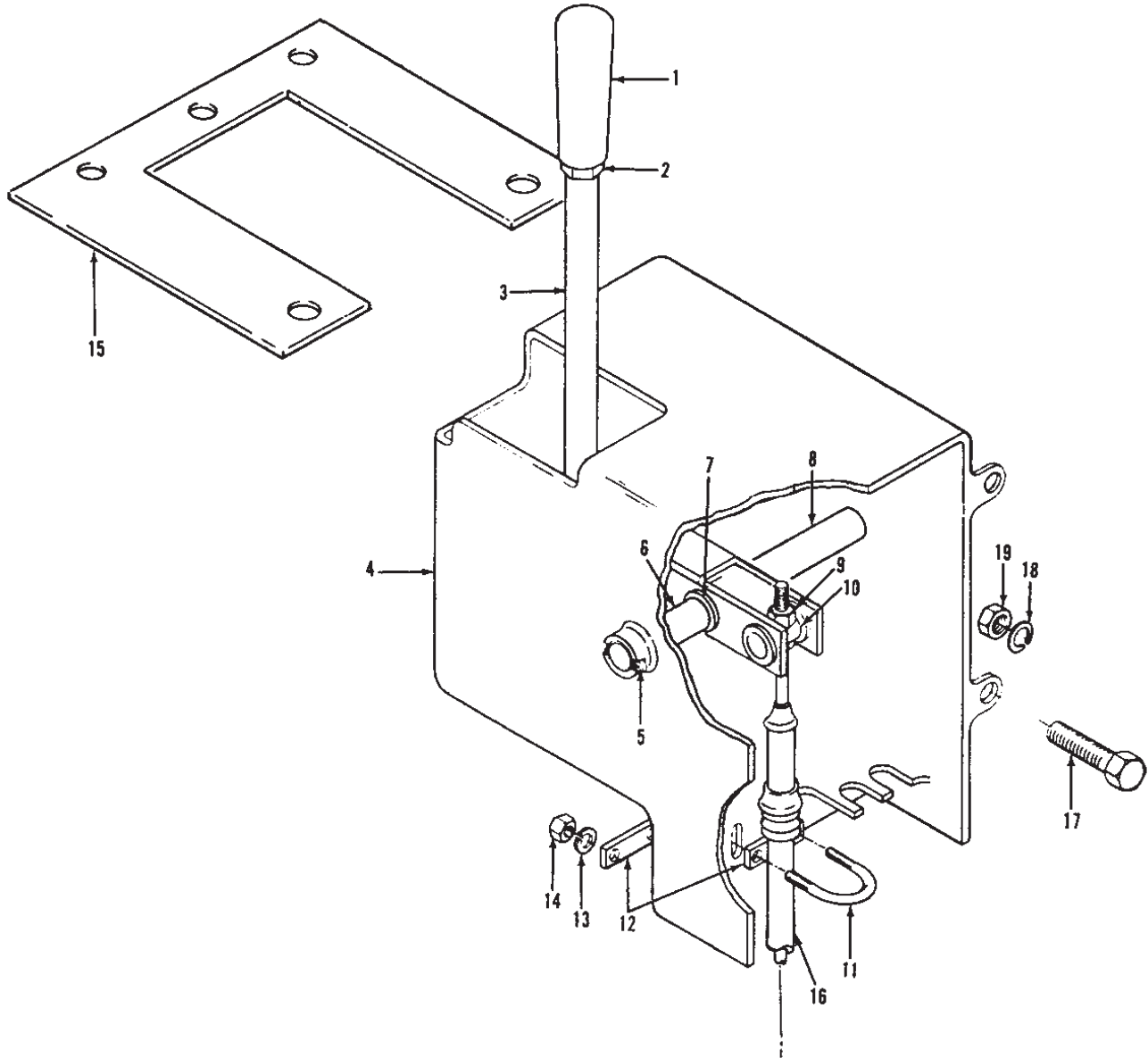
First Used on S/N AW6F-3883

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2302014W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2300388W	. Spacer	2	16	398817W	Screw, Flange	2
2	16379W	. Capscrew	2	17	16830W	Capscrew	8
3	15156W	. Washer	2	18	15158W	Washer	8
4	15056W	. Nut	2	19	15058W	Nut	8
5	90267W	. Washer	3	20	339489W	Bracket, Mounting	1
6	58907W	. Snap Ring	3	24	2300995W	Kit, U-Bolt	2
7	2302015W	. Bracket	1		-----	. U-Bolt	1
8	95750W	. Lever, Shift	1		-----	. Plate, Cup	1
9	77187W	. Assembly, Control Lever	1		-----	. Plate	1
9	79416W	. . Pawl/Rod	1		-----	. Washer, Star	2
9	79417W	. . Spring	1		-----	. Nut	2
9	79418W	. . Button	1	25	92683W	End, Rod	4
10	77188W	. Bar, Quadrant	1	26	15026W	Nut, Jam	2
11	125629W	Cable, Brake	1	27	159W	Pin, Rod End	4
12	123422W	Cable, Control	1	28	15223W	Pin, Cotter	4
13	2302013W	Cover	1	29	16212W	Setscrew	2
14	15158W	Washer	2	30	15086W	Nut	2
15	15058W	Nut	2	31	2302057W	Decal	1

### Control Levers

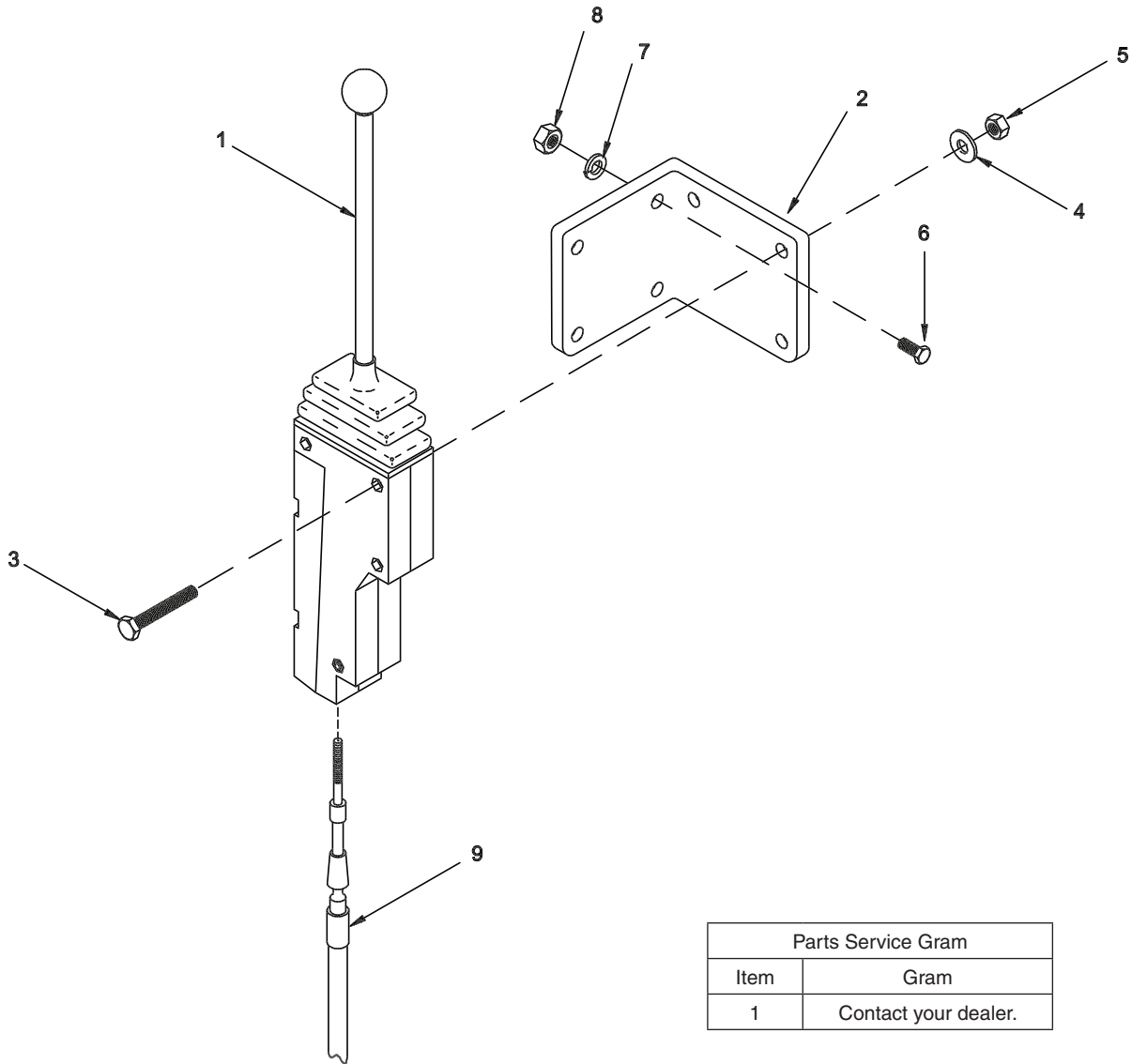
Direct Drive Freespool Lever  
 Caterpillar D5B (C41, C42);  
 Last Used on S/N AW6F-1999 of D6D (C43, C44)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303105W	Knob	1	11	*a	U-Bolt	1
2	15030W	Nut, Jam	1	12	*a	Spacer	2
3	276031W	Lever	1	13	*a	Lockwasher	2
3	276043W	. Bushing	1	14	*a	Nut	2
4	196114W	Housing	1	15	281881W	Plate, Cover	1
5	15225W	Pin, Cotter	2	16	303938W	Cable, Control	1
6	276041W	Pin	1	17	16805W	Capscrow	4
7	391016W	Washer	2	18	15156W	Lockwasher	4
8	271748W	Spacer	1	19	15056W	Nut	4
9	15106W	Locknut	1				
9	18425W	Lockwasher	1		*a	Included in 2300995W U-Bolt Kit	
10	196128W	Pin	1				

### Control Levers

Direct Drive Freespool Lever  
 Caterpillar D6D (C43, C44)  
 First Used on S/N AW6F-2000

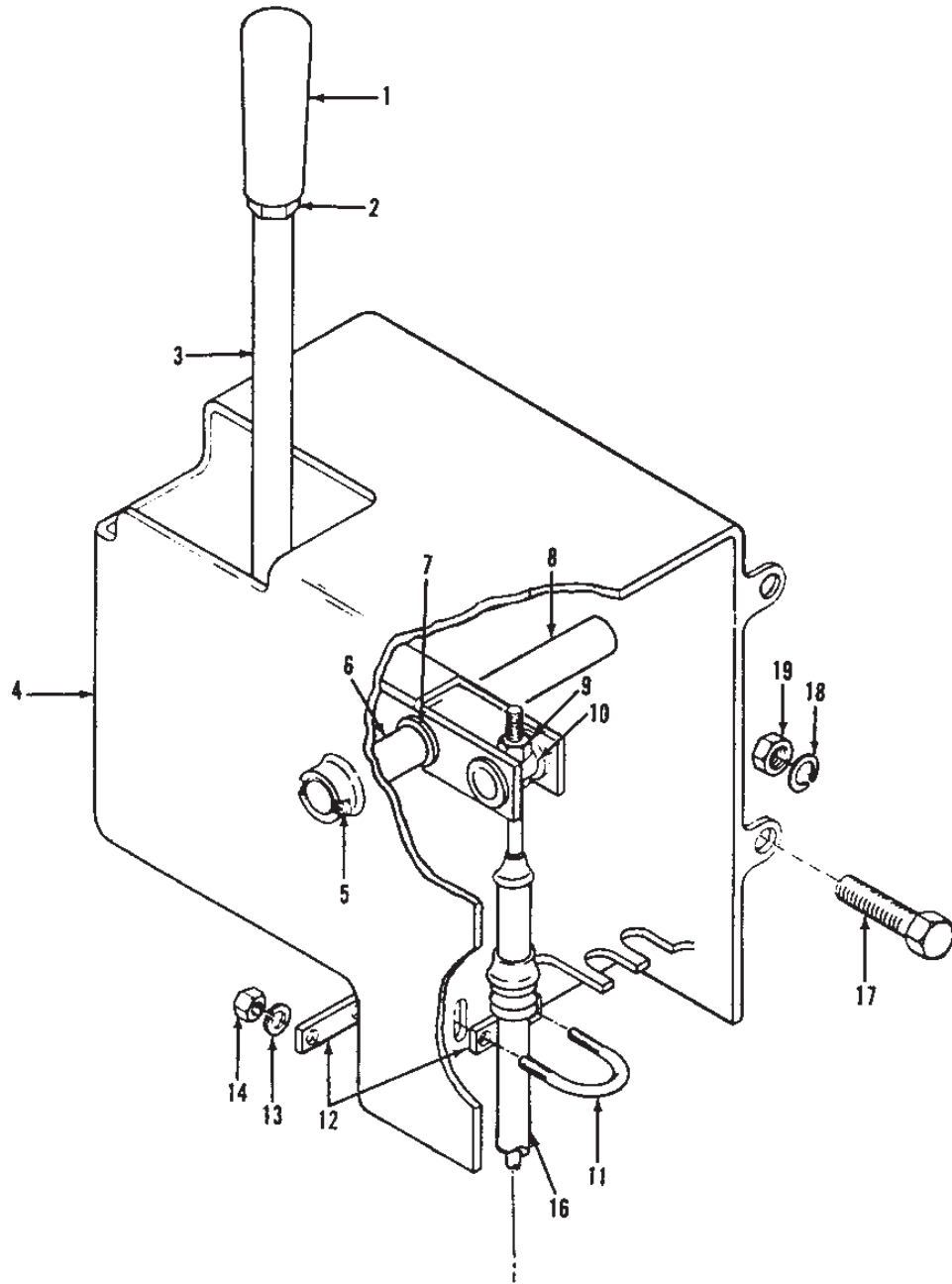


Parts Service Gram	
Item	Gram
1	Contact your dealer.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	383880W	Lever, Control - FS (3-153)	1	6	16805W	Capscrew	4
2	2300202W	Bracket	1	7	15156W	Washer	4
3	18513W	Capscrew	3	8	15056W	Nut	4
4	18515W	Washer	3	9	303938W	Cable, Control	1
5	191534W	Nut	3				

### Control Levers

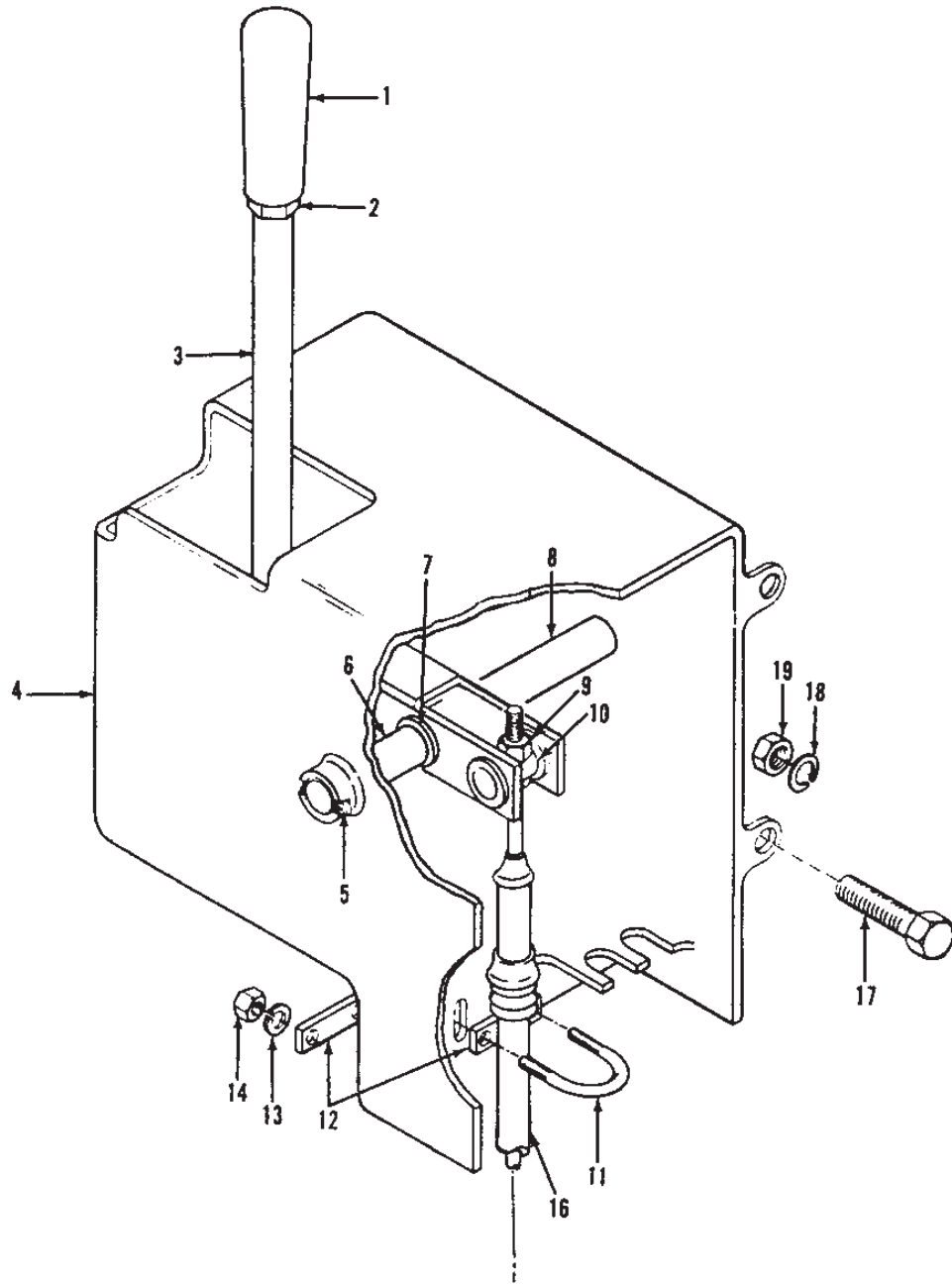
Direct Drive Freespool Lever  
Dresser TD-15B/G (H42)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303105W	Knob	1	10	196128W	Pin	1
2	15030W	Nut, Jam	1	11	*a	U-Bolt	1
3	276031W	Lever	1	12	*a	Spacer	2
4	276043W	Bushing	1	13	*a	Lockwasher	2
4	196114W	Housing	1	14	*a	Nut	2
5	15225W	Pin, Cotter	2	16	303938W	Cable, Control	1
6	276041W	Pin	1	17	16805W	Cap screw	8
7	391016W	Washer	2	18	15156W	Lockwasher	8
8	271748W	Spacer	1	19	15056W	Nut	8
9	15106W	Locknut	1				
9	18425W	Lockwasher	1				
				*a	Included in 2300995W U-Bolt Kit		

### Control Levers

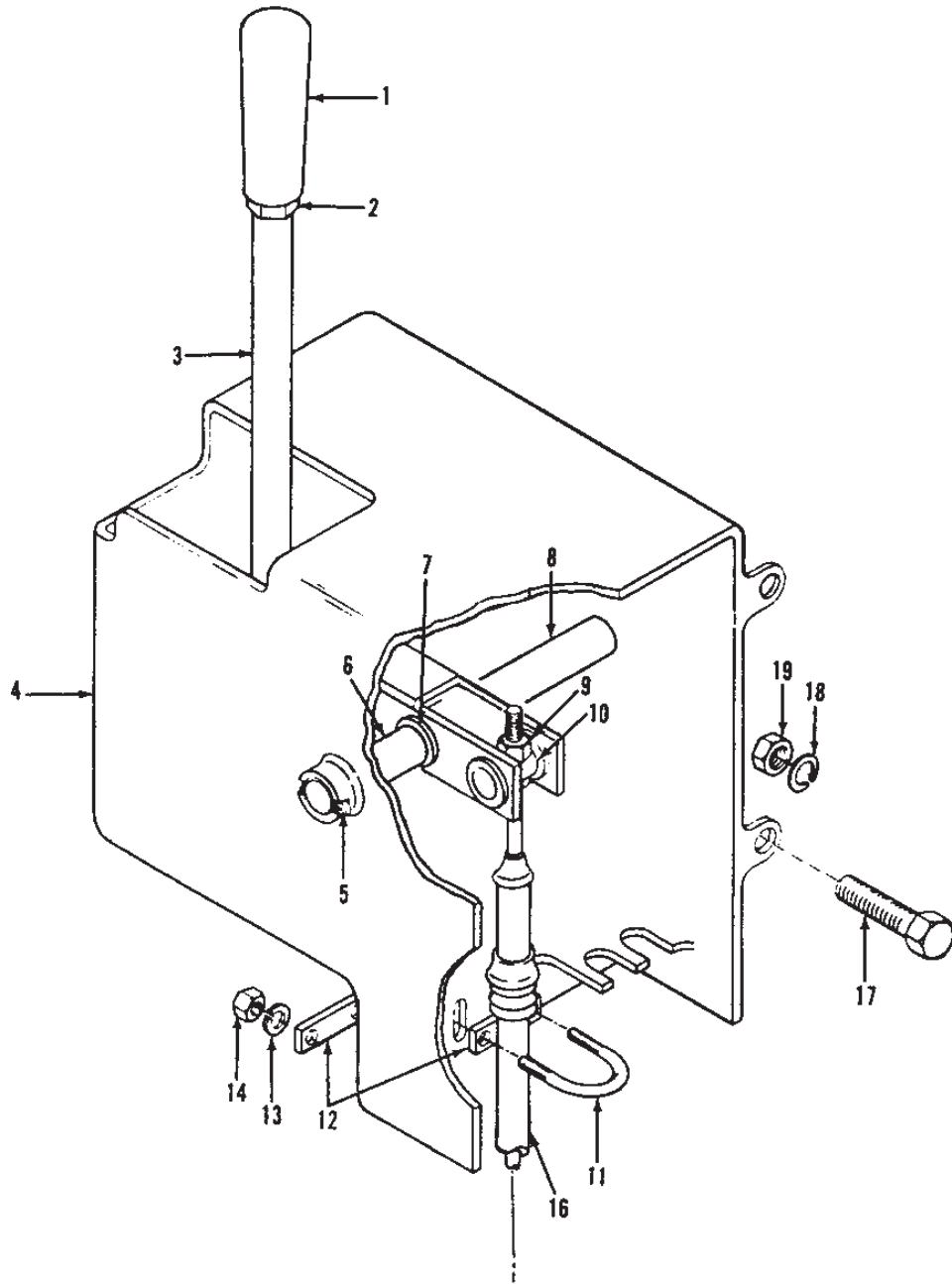
Direct Drive Freespool Lever  
 Fiat-Allis 11B (A41, A42) and 14B (A44, A45)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303105W	Knob	1	10	196128W	Pin	1
2	15030W	Nut, Jam	1	11	*a	U-Bolt	1
3	276031W	Lever	1	12	*a	Spacer	2
3	276043W	Bushing	1	13	*a	Lockwasher	2
4	196114W	Housing	1	14	*a	Nut	2
5	15225W	Pin, Cotter	2	16	303938W	Cable, Control	1
6	276041W	Pin	1	17	16805W	Cap screw	4
7	391016W	Washer	2	18	15156W	Lockwasher	4
8	271748W	Spacer	1	19	15056W	Nut	4
9	15106W	Locknut	1				
9	18425W	Lockwasher	1				
				*a	Included in 2300995W U-Bolt Kit		

### Control Levers

Direct Drive Freespool Lever  
Komatsu D60 (K41)

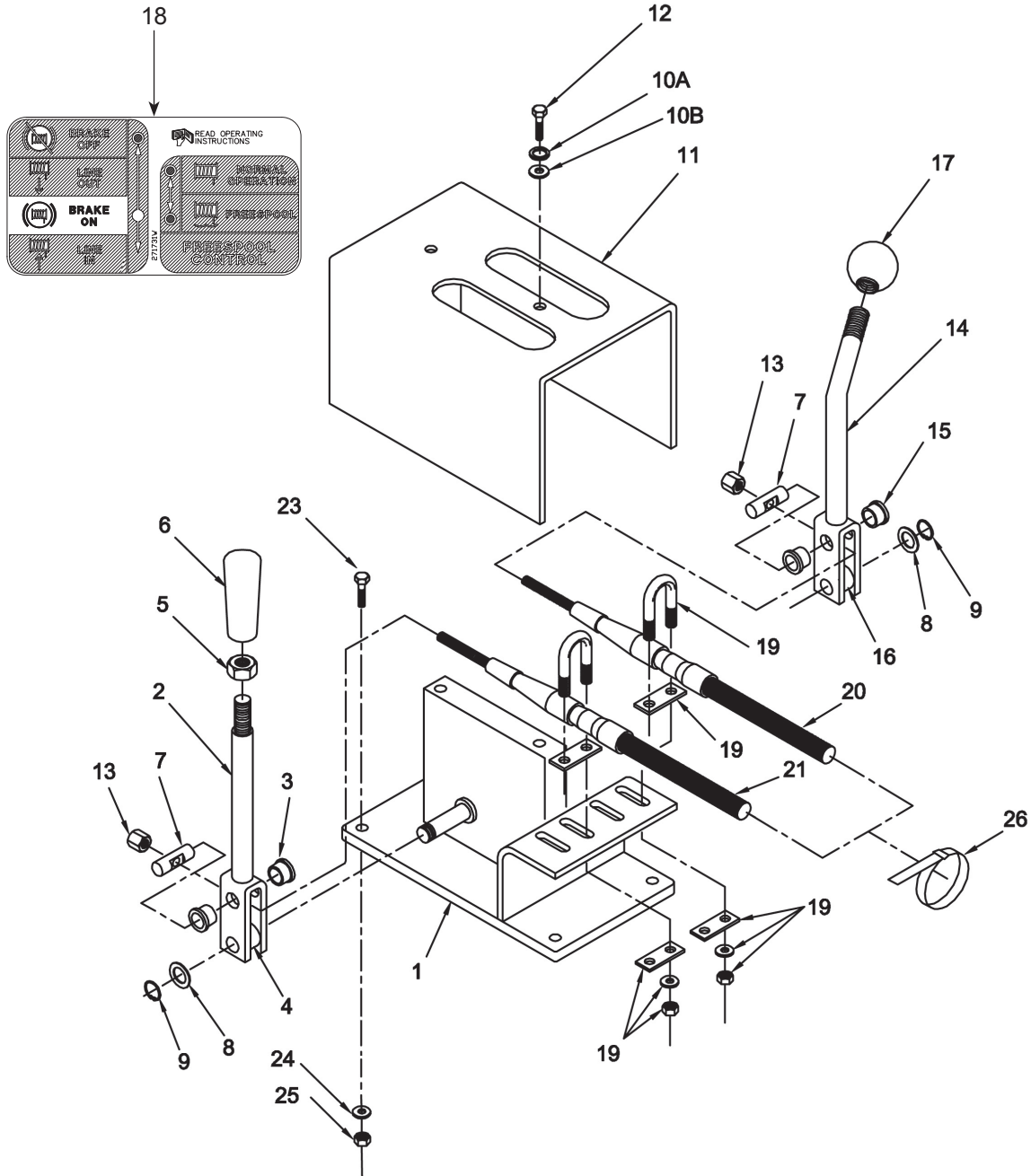


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303105W	Knob	1	10	196128W	Pin	1
2	15030W	Nut, Jam	1	11	*a	U-Bolt	1
3	276031W	Lever	1	12	*a	Spacer	2
3	276043W	Bushing	1	13	*a	Lockwasher	2
4	196114W	Housing	1	14	*a	Nut	2
5	15225W	Pin, Cotter	2	16	303938W	Cable, Control	1
6	276041W	Pin	1	17	16805W	Cap screw	4
7	391016W	Washer	2	18	15156W	Lockwasher	4
8	271748W	Spacer	1	19	15056W	Nut	4
9	15106W	Locknut	1				
9	18425W	Lockwasher	1				
				*a	Included in 2300995W U-Bolt Kit		

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### Control Levers

Power Control With Freespool  
Case 1550 (R41)  
Page 1 of 2





**Control Levers**

Power Control With Freespool

Case 1550 (R41)

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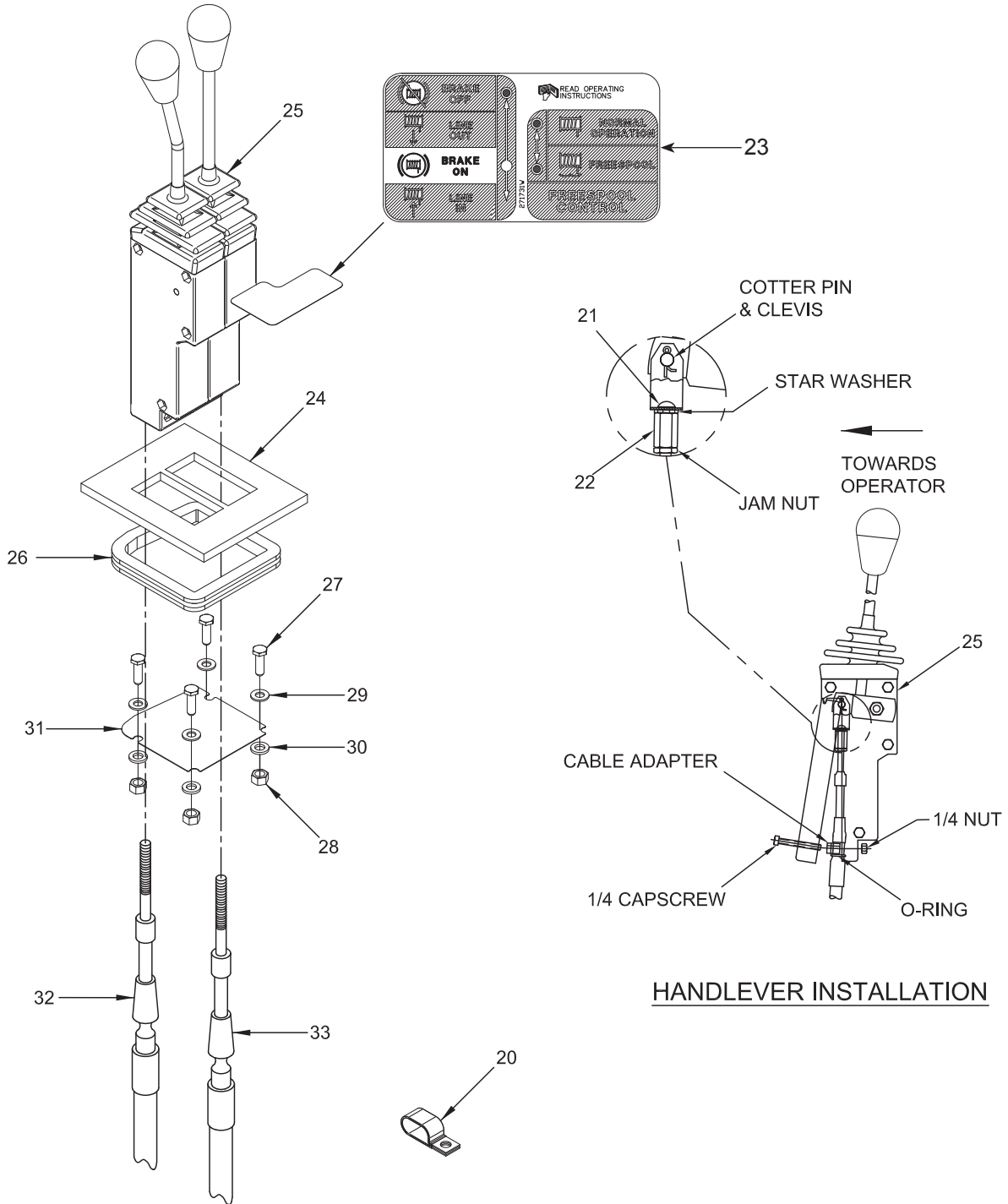
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>332821W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	332823W	. Bracket	1	16	276043W	. . Bushing, Brass	1
2	276036W	. Assembly, Lever	1	17	243189W	. Knob	1
3	196144W	. . Bushing, Nylon	2	18	271731W	Decal	1
4	276043W	. . Bushing, Brass	1	19	2300995W	Kit, U-Bolt	2
5	15030W	. Nut	1		-----	. U-Bolt	1
6	2303105W	. Knob	1		-----	. Plate, Cup	1
7	196128W	. Pin	2		-----	. Plate	1
8	15135W	. Washer	2		-----	. Washer, Star	2
9	190930W	. Ring, Snap	2		-----	. Nut	2
10A	15155W	. Lockwasher	2	20	303942W	Cable, Freespool Control	1
10B	18515W	. Washer	2	21	303944W	Cable, Push/Pull Control	1
11	332822W	. Cover	1	23	16805W	Capscrew	4
12	16836W	. Capscrew	2	24	15156W	Lockwasher	4
13	2301487W	. Nut, Tall	2	25	156133W	Nut	4
14	276037W	. Lever	1	26	129563W	Clamp, Strap	3
15	196144W	. . Bushing, Nylon	2				

# Control Levers

Power Control With Freespool

Case 1850K (R49)

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**Control Levers**

Power Control With Freespool

Case 1850K (R49)

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
20	110322W	Clamp	1	28	15055W	Nut	4
21	*a 18717W	Capscrew	2	29	18515W	Washer	8
22	383881W	Nut, Tall	2	30	15155W	Washer	4
23	271731W	Decal	1	31	2304848W	Template, Plastic Console Alteration	1
24	2304570W	Gasket, with FREESPOOL	1	32	303945W	Cable, Push/Pull Control	1
25	2304807W	Assembly, Control Lever (3-160)	1	33	303945W	Cable, Freespool Control	1
26	225871	Trim, Vinyl Protective	1.75 ft.				
27	18497W	Capscrew	4		*a	Uses 230064W Loctite Kit	

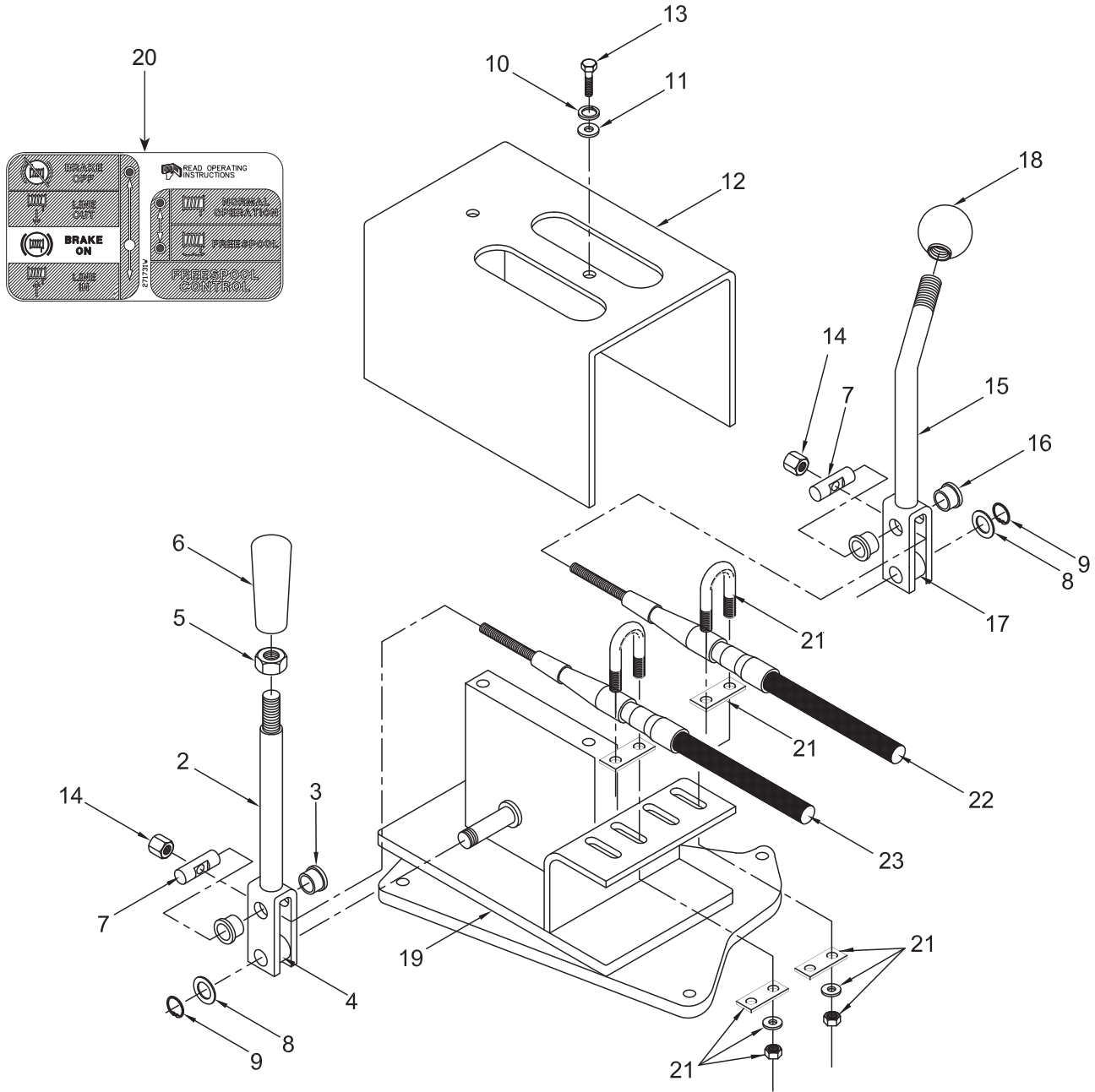
### Control Levers

Power Control With Freespool

Caterpillar 527 (C40)

Last Used on S/N AW6F-4541

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**Control Levers**

Power Control With Freespool

Caterpillar 527 (C40)

Last Used on S/N AW6F-4541

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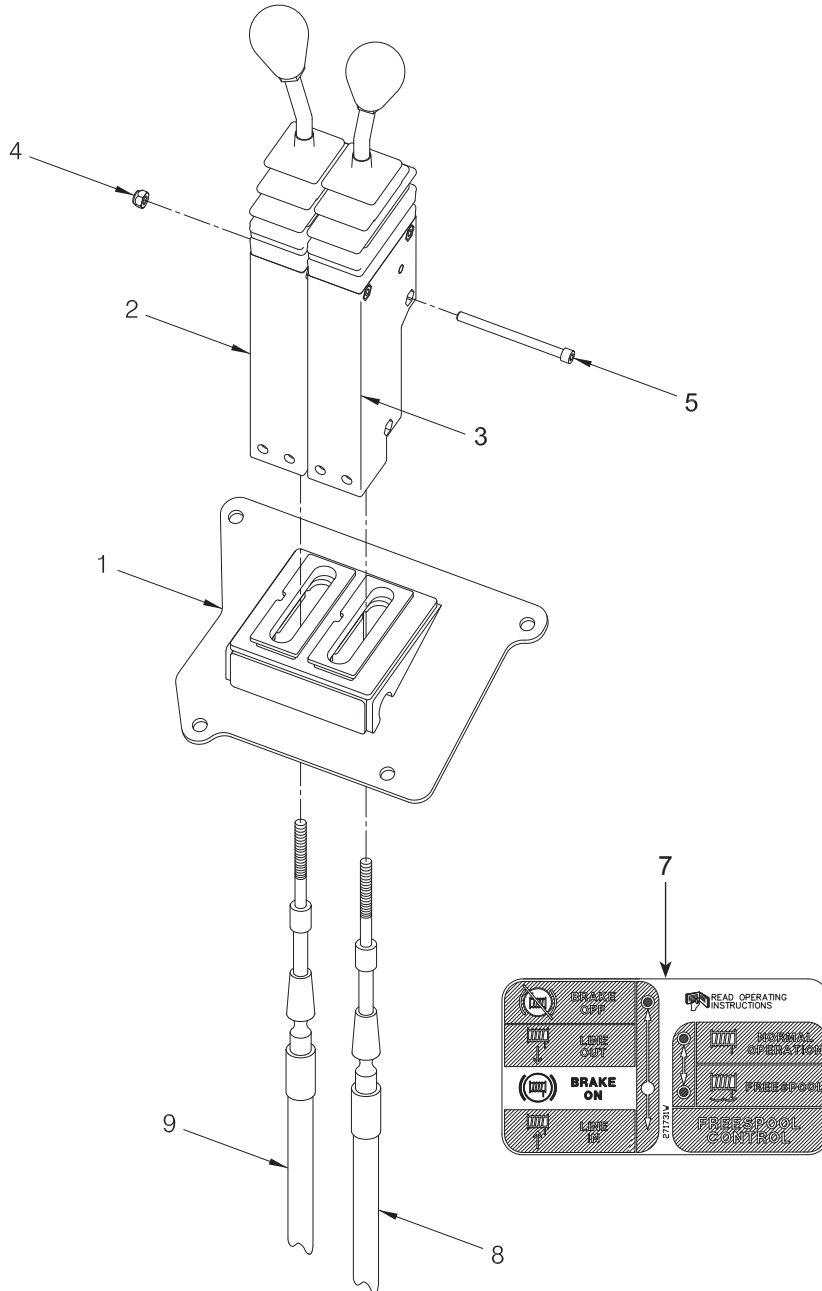
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>381194W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
2	276036W	. Assembly, Lever	1	16	196144W	. . Bushing, Nylon	2
3	196144W	. . Bushing, Nylon	2	17	276043W	. . Bushing, Brass	1
4	276043W	. . Bushing, Brass	1	18	243189W	. Knob	1
5	15030W	. Nut	1	19	381193W	. Bracket	1
6	2303105W	. Knob	1	20	271731W	Decal	1
7	196128W	. Pin	2	21	2300995W	Kit, U-Bolt	2
8	15135W	. Washer	2		-----	. U-Bolt	1
9	190930W	. Ring, Snap	2		-----	. Plate, Cup	1
10	15155W	. Lockwasher	2		-----	. Plate	1
11	18515W	. Washer	2		-----	. Washer, Star	2
12	332822W	. Cover	1		-----	. Nut	2
13	16836W	. Capscrew	2	22	303942W	Cable, Freespool Control	1
14	2301487W	. Nut, Tall	2	23	303944W	Cable, Push/Pull Control	1
15	276037W	. Lever	1				

### Control Levers

Power Control With Freespool

Caterpillar 527 (C40)

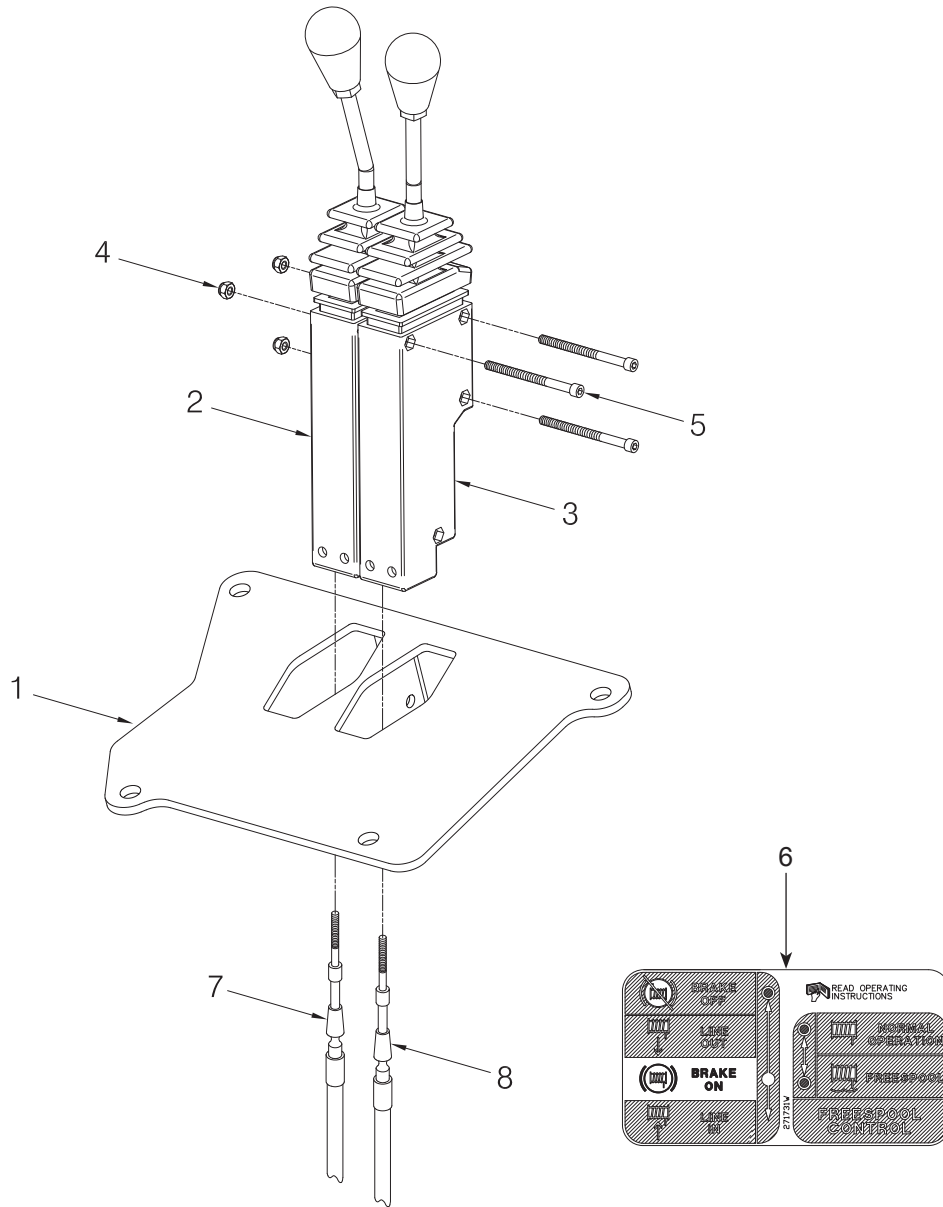
Used on S/N AW6F-4542 through S/N AW6F-4578



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2307357W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2307351W	. Bracket, Control Lever	1	5	2304878W	. Capscrew	3
2	2307354W	. Lever, Control (See 3-155)	1	7	271731W	Decal	1
3	2307355W	. Lever, Control - FS (See 3-155)	1	8	303943W	Cable, Freespool Control	1
4	15113W	. Nut	3	9	303941W	Cable, Push/Pull Control	1

### Control Levers

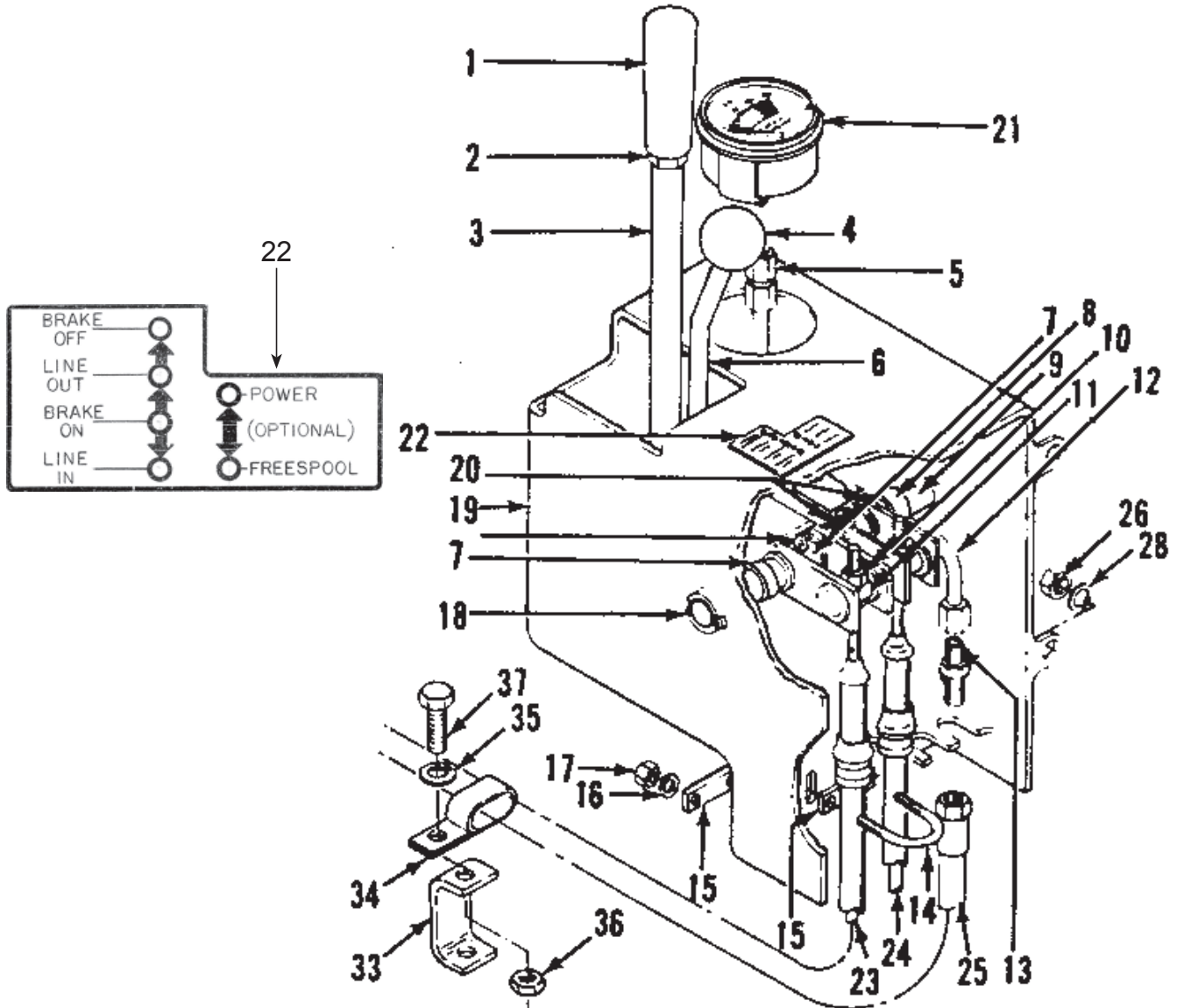
Power Control With Freespool  
 Caterpillar 527 (C40)  
 First Used on S/N AW6F-4579



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2307382W</b>	<b>Assembly, Control Lever - FS</b>	<b>1</b>				
1	*a 2307543W	. Bracket, Control Lever	1	6	271731W	. Decal, w/ Freespool	1
1	*b 2314866	. Bracket, Control Lever	1	7	303942W	Cable, Push/Pull Control	1
2	2303982W	. Lever, Control (See 3-155)	1	8	303941W	Cable, Freespool Control	1
3	2303986W	. Lever, Control - FS (See 3-155)	1				
4	15113W	. Nut	3				
5	2304878W	. Capscrew	3				
				*a	Last Used on Tractor S/N PTR00446		
				*b	First Used on Tractor S/N PTR00447		

### Control Levers

Power Control With Freespool  
 Caterpillar 977L-11K (C45)  
 Last Used During 1993  
 Page 1 of 2



Parts Service Gram	
Item	Gram
3, 7, 8, 9, 10, 19, 21	Contact your dealer.



**Control Levers**

Power Control With Freespool

Caterpillar 977L-11K (C45)

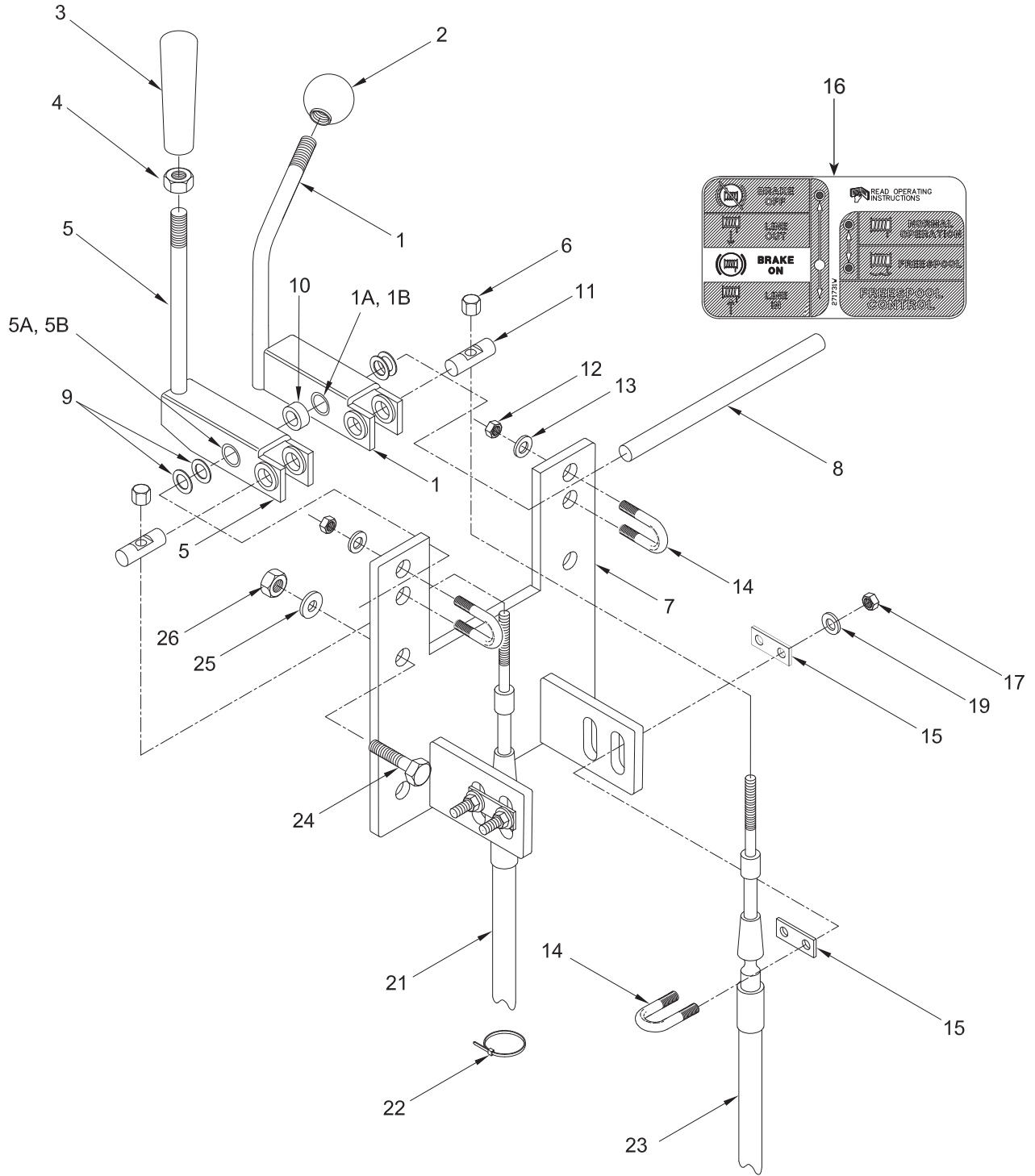
Last Used During 1993

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>227468W</b>	<b>Assembly, Control Lever - FS</b>	<b>1</b>				
1	2303105W	. Knob	1	16	*a -----	. Lockwasher	4
2	15030W	. Nut, Jam	1	17	*a -----	. Nut	4
3	276031W	. Lever	1	18	15225W	. Pin, Cotter	2
4	243189W	. Knob	1	19	196114W	. Housing	1
5	14712W	. Fitting	1	20	391016W	. Washer	2
6	243188W	. Lever	1	21	192407W	. Gauge, Oil Pressure	1
6	276032W	. Lever	1	22	271731W	Decal	1
6	276043W	. Bushing	1	23	303941W	Cable, Push/Pull Control	1
7	196132W	. Spacer	2	24	303943W	Cable, Freespool Control	1
7	15135W	. Flat Washer	3	25	165505W	Hose Assembly	1
8	271746W	. Spacer	1	26	15056W	Nut	4
9	276041W	. Pin	1	27	16805W	Capscrew	4
10	18425W	. Lockwasher	2	28	15156W	Lockwasher	4
10	15106W	. Locknut	2	33	156871W	Bracket	1
11	196128W	. Pin	2	34	110322W	Clamp	1
12	196134W	. Tube Assembly	1	35	15156W	Lockwasher	1
13	16445W	. Fitting	1	36	15056W	Nut	1
13	14758W	. Adapter	1	37	18535W	Capscrew	1
14	*a -----	. U-Bolt	2				
15	*a -----	. Spacer	4		*a	Included in 2300995W U-Bolt Kit (2 Required)	

### Control Levers

Power Control With Freespool  
 Caterpillar 977L-14X (C46)  
 First Used on S/N W6F-7144 and S/N AW6F-1001  
 Page 1 of 2



**Control Levers**

Power Control With Freespool

Caterpillar 977L-14X (C46)

First Used on S/N W6F-7144 and S/N AW6F-1001

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>264052W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	276032W	. Lever	1	12	15055W	. Nut	4
1A	196144W	.. Bushing	2	13	15155W	. Lockwasher	4
1B	276043W	.. Bushing	1	14	*a -----	. U-Bolt	2
2	243189W	. Knob	1	15	*a -----	Spacer	4
3	2303105W	. Knob	1	16	271731W	Decal	1
4	15030W	. Nut, Jam	1	17	*a -----	Nut	4
5	276031W	. Lever	1	19	*a -----	Washer	4
5A	196144W	.. Bushing	2	21	303944W	Cable, Push/Pull Control	1
5B	276043W	.. Bushing	1	22	114312W	Strap, Clamp	1
6	2301487W	. Nut	2	23	303943W	Cable, Freespool Control	1
7	261567W	. Bracket	1	24	16805W	Capscrew	8
8	276081W	. Pin	1	25	15156W	Lockwasher	8
9	15135W	. Washer	4	26	15056W	Nut	8
10	77418W	. Spacer	1				
11	196128W	. Pin	2		*a	Included in 2300995W U-Bolt Kit (2 required)	

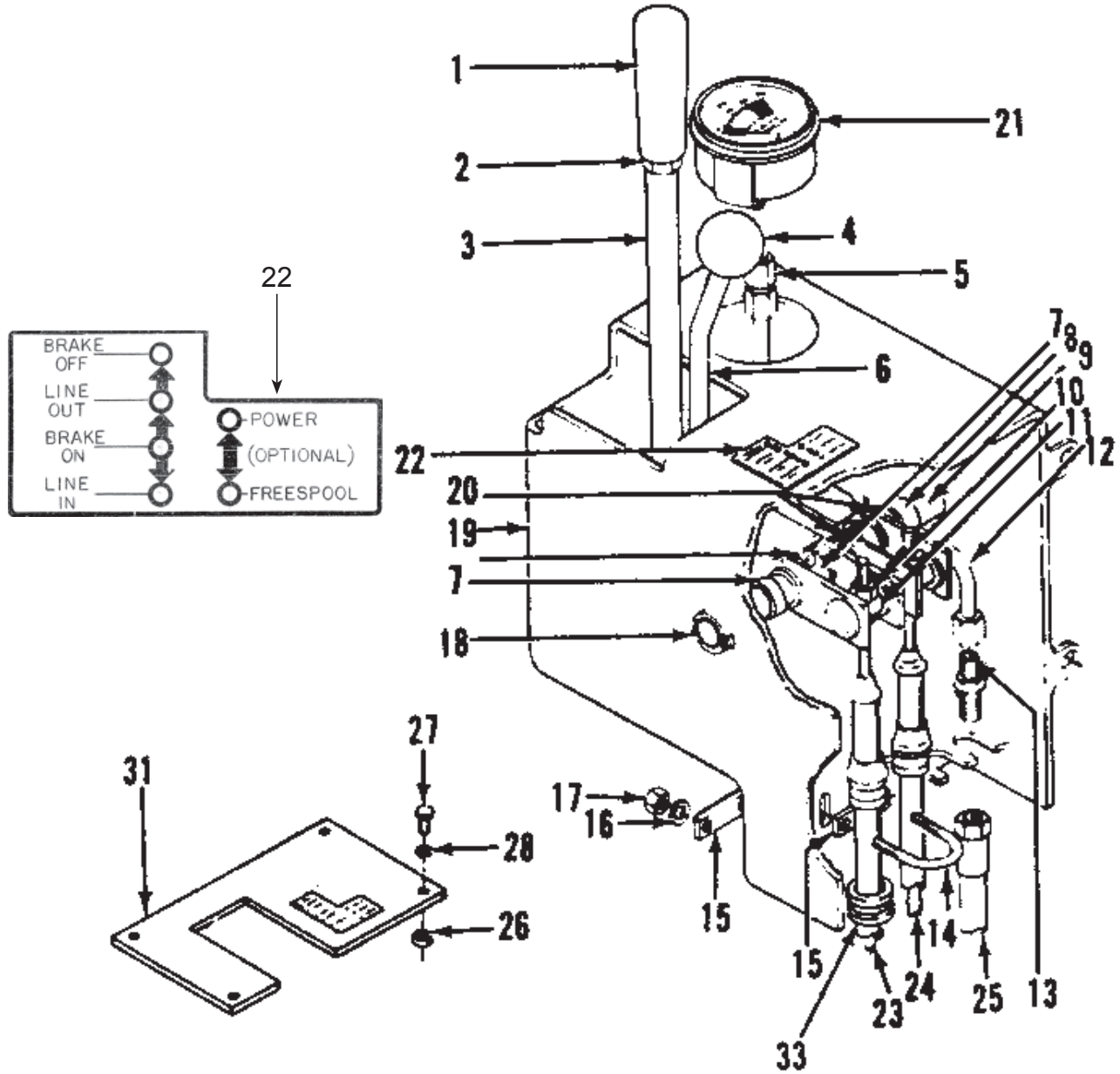
### Control Levers

Power Control With Freespool

Caterpillar D5 (C41, C42) and D6 (C43, C44, C50, C71, C73, C82, C480, C481)

Last Used During 1993

Page 1 of 2



Parts Service Gram	
Item	Gram
3, 7, 8, 9, 10, 19, 21	Contact your dealer.

**Control Levers**

Power Control With Freespool

Caterpillar D5 (C41, C42) and D6 (C43, C44, C50, C71, C73, C82, C480, C481)

Last Used During 1993

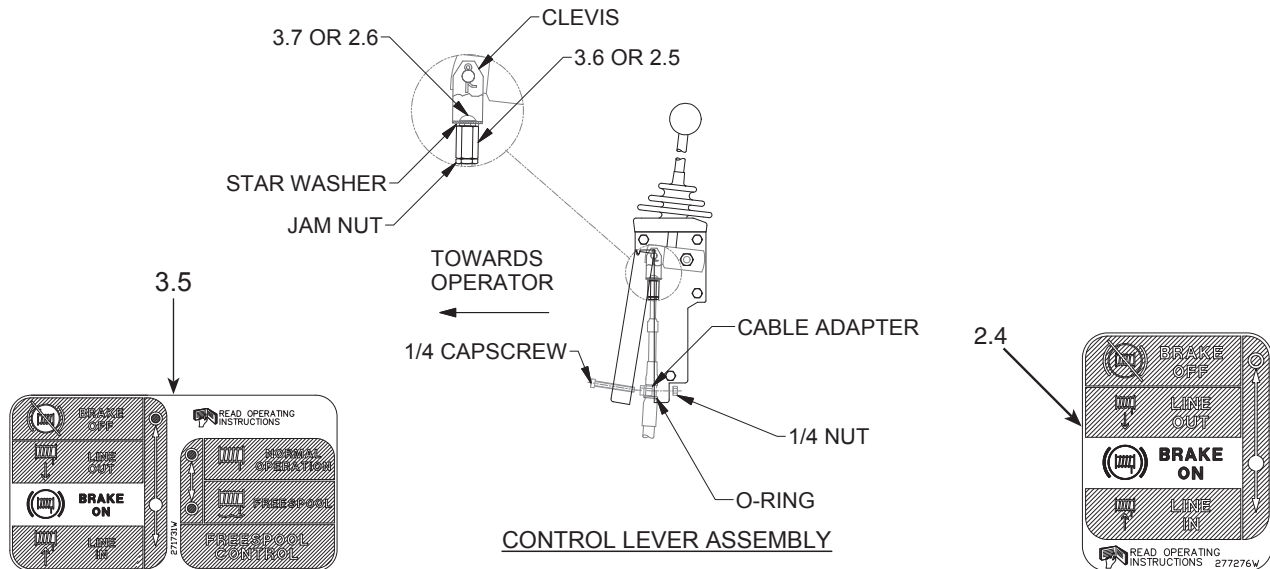
Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty	
	<b>227468W</b>	<b>Assembly, Control Lever - FS</b>	<b>1</b>	17	*c	-----	. Nut	4
1	2303105W	. Knob	1	18		15225W	. Pin, Cotter	2
2	15030W	. Nut, Jam	1	19		196114W	. Housing	1
3	276031W	. Lever	1	20		391016W	. Washer	2
4	243189W	. Knob	1	21		192407W	. Gauge, Oil Pressure	1
5	14712W	. Fitting	1	22		271731W	Decal	1
6	276032W	. Lever	1	23		303941W	Cable, Push/Pull Control	1
6	276043W	. Bushing	1	24		303938W	Cable, Freespool Control	1
7	196132W	. Spacer	2	25	*a	165505W	Assembly, Hose	1
7	15135W	. Washer, Flat	3	25	*b	146296W	Assembly, Hose	1
8	271746W	. Spacer	1	26	*a	15056W	Nut	4
9	276041W	. Pin	1	26	*b	15056W	Nut	4
10	18425W	. Lockwasher	2	27	*a	16805W	Capscrew	4
10	15106W	. Locknut	2	27	*b	16805W	Capscrew	4
11	196128W	. Pin	2	28	*a	15156W	Lockwasher	4
12	196134W	. Assembly, Tube	1	31		281881W	Plate, Cover	1
13	16445W	. Fitting	1		*a	Caterpillar D5 (C41, C42)		
13	14758W	. Adapter	1		*b	Caterpillar D6 (C43, C44, C50, C71, C82, C480, C481)		
14	*c	-----	2		*c	Included in 2300995W U-bolt Kit (2 Required)		
15	*c	-----	4					
16	*c	-----	4					

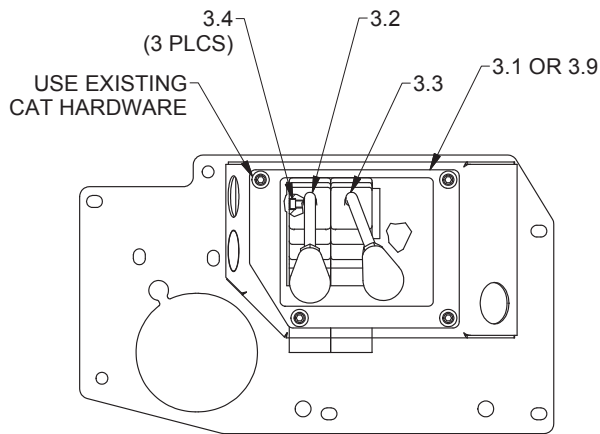
### Control Levers

Power Control With & Without Freespool  
Caterpillar D5R & D6N (C81)

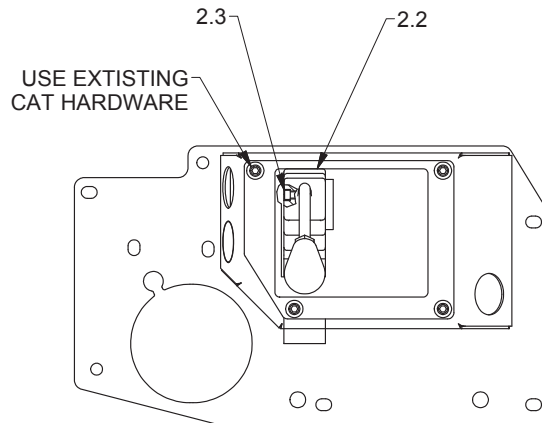
Page 1 of 2



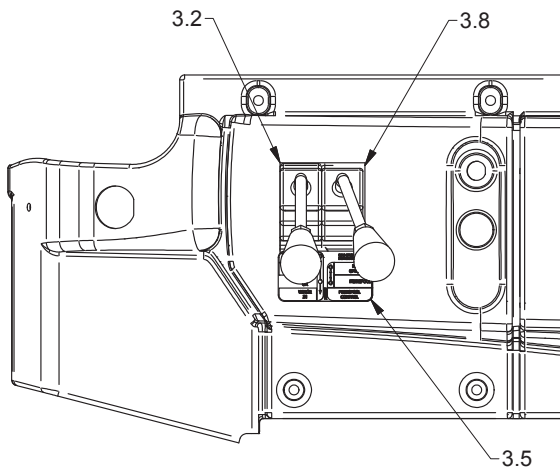
**CONTROL LEVER ASSEMBLY**



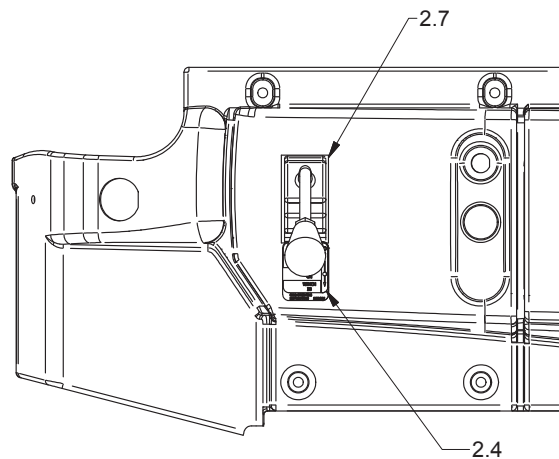
**CONTROL LEVER MOUNTING**



**CONTROL LEVER MOUNTING**



**FREESPOOL CONTROLS**



**NON-FREESPOOL CONTROLS**

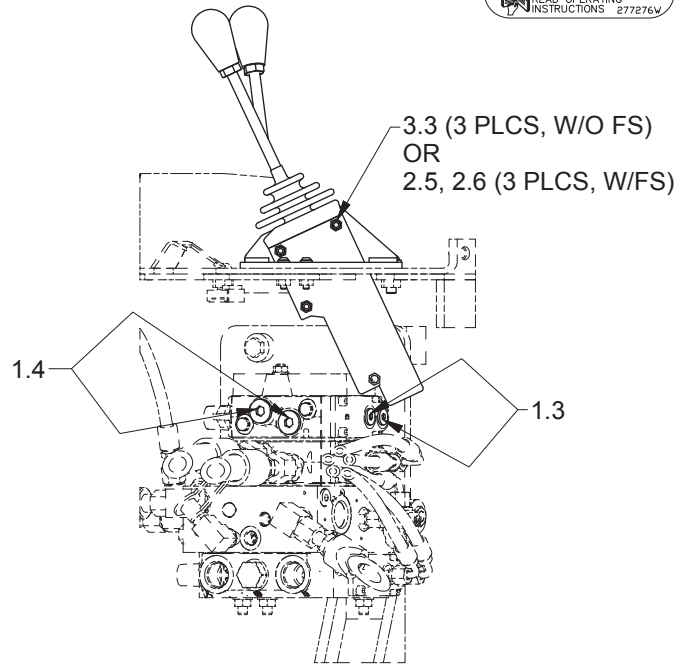
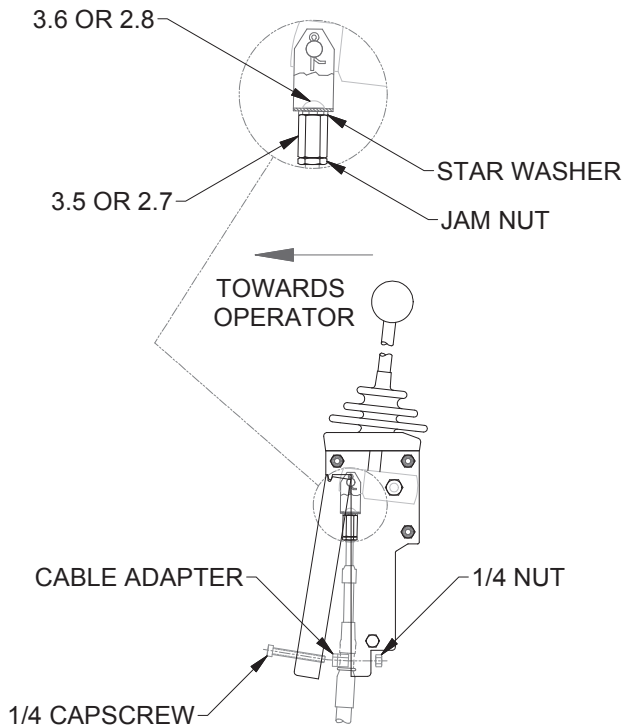
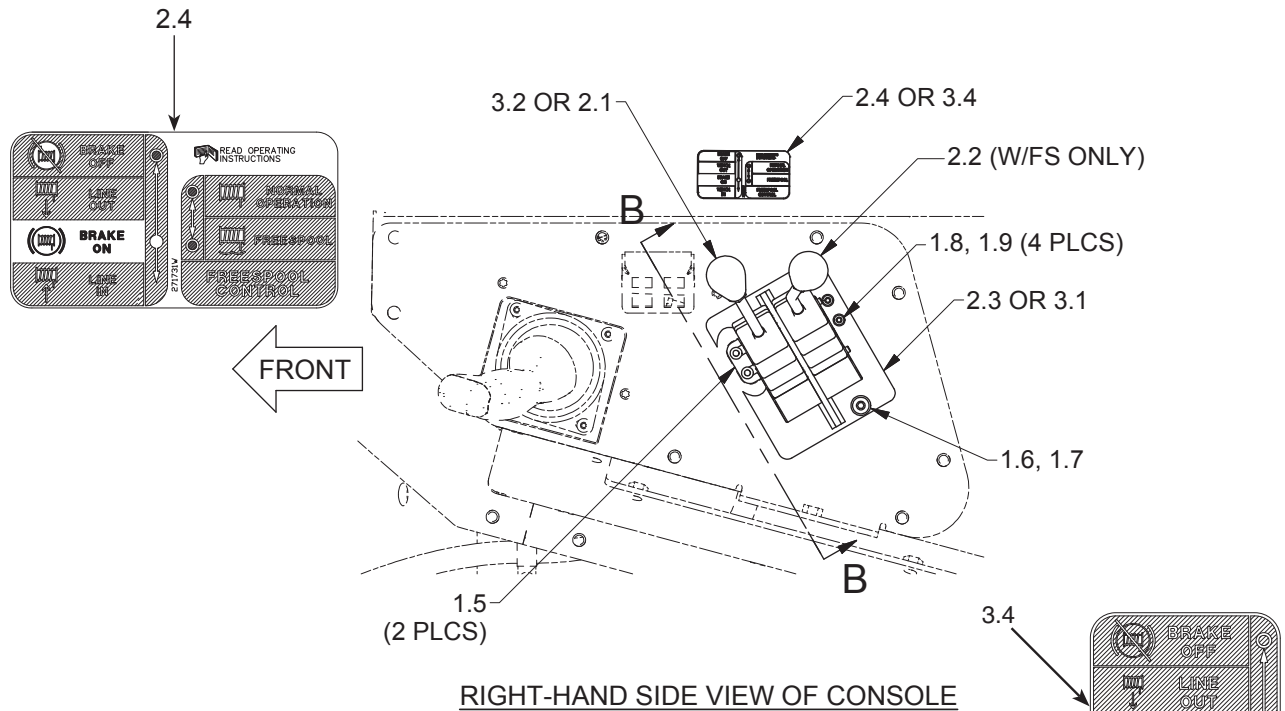
### Control Levers

Power Control With & Without Freespool  
 Caterpillar D5R & D6N (C81)  
 Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
2.1	*a 2314466	Bracket, Control Lever	1	3.4	2304382W	Capscrew	2
2.2	2306703W	Lever, Control - 60° Bend (3-155)	1	3.5	271731W	Decal, Control Lever	1
2.3	232987	Capscrew	2	3.6	383881W	Nut, Tall	2
2.4	277276W	Decal, Control Lever	1	3.7	18717W	Capscrew	2
2.5	383881W	Nut, Tall	1	3.8	225871	Trim, Edge	1.67 ft
2.6	18717W	Capscrew	1	3.9	2314138	Bracket, Control Lever	1
2.7	225871	Trim, Edge	1.67 ft				
2.8	2314472	Bracket, Control Lever	1	*a	Item 2.1 through item 2.8 Are Used on Winches without FREESPOOL		
3.1	*b 2306661W	Bracket, Control Lever	1	*b	Item 3.1 through item 3.9 Are Used on Winches with FREESPOOL		
3.2	2306703W	Lever, Control - 60° Bend (3-155)	1				
3.3	2306704W	Lever, Control - 60° Bend (3-155)	1				

### Control Levers

Power Control With & Without Freespool  
 Caterpillar D5R2 (C470)  
 Page 1 of 2





**Control Levers**

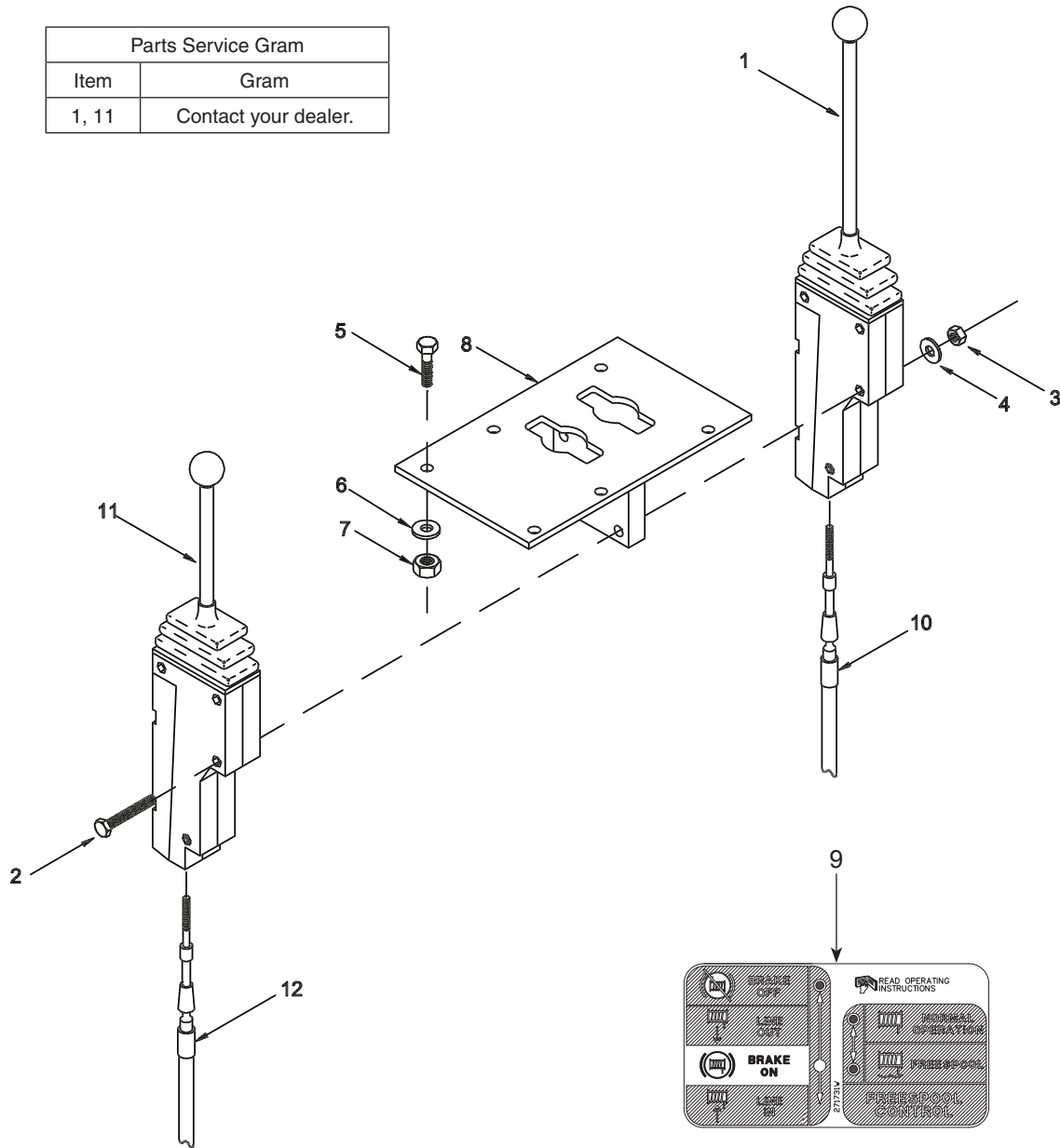
Power Control With & Without Freespool  
Caterpillar D5R2 (C470)  
Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1.3	229383	Fitting	2	2.5	2304382W	Capscrew	3
1.4	228773	Fitting	2	2.6	15113W	Nut	3
1.5	2314955	Plate, Spacer	2	2.7	383881W	Nut, Tall	2
1.6	296175W	Capscrew	1	2.8	18717W	Capscrew	2
1.7	296420W	Washer	1	3.1	2314958	Bracket, Control Lever - W/O FS	1
1.8	296162W	Capscrew	4	3.2	2303982	Lever, Control	1
1.9	296417W	Washer	4	3.3	232987	Capscrew	3
2.1	2303982W	Lever, Control (3-155)	1	3.4	277276W	Decal, Control Lever - W/O FS	1
2.2	2307355W	Lever, Control (3-155)	1	3.5	383881W	Nut, Tall	1
2.3	2314954	Bracket, Control Lever - W/FS	1	3.6	18717W	Capscrew	1
2.4	271731W	Decal, Control Lever - PFR W/FS	1				

### Control Levers

Power Control With Freespool  
 Caterpillar D6D (C43, C44)  
 "New Style" Implemented During 1993

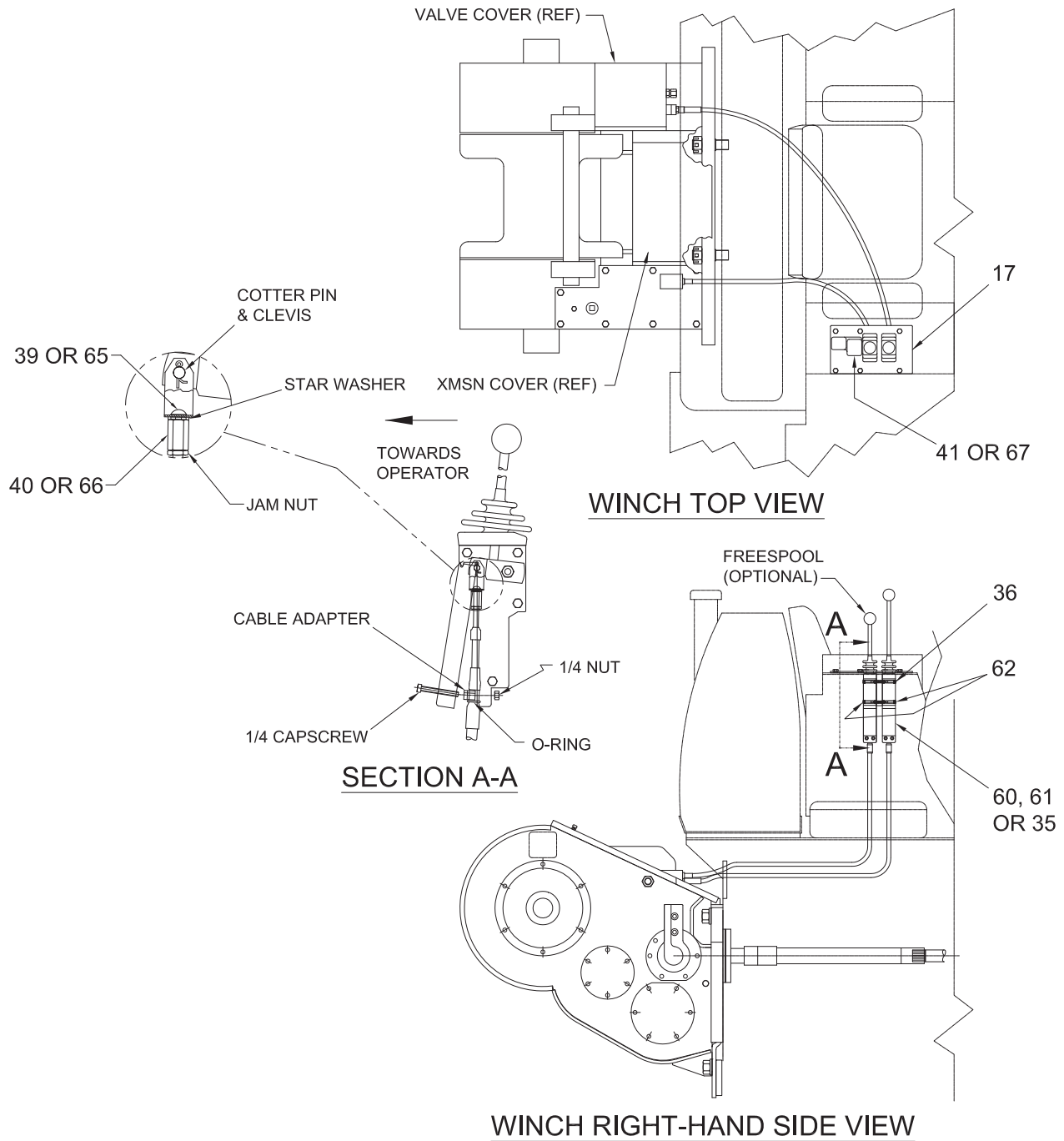
Parts Service Gram	
Item	Gram
1, 11	Contact your dealer.



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	1300785W	Lever, Control (3-152)	1	8	2300326W	Bracket	1
2	18528W	Capscrew	3	9	271731W	Decal, Control Lever	1
3	191534W	Nut	3	10	303941W	Cable, Push/Pull Control	1
4	18515W	Washer	3	11	383880W	Lever, Control - FS (3-153)	1
5	*a	-----	4	12	303938W	Cable, Freespool Control	1
6	*a	-----	4				
7	*a	-----	4				
				*a		Use Existing Hardware	

### Control Levers

Power Control With and Without Freespool  
 Caterpillar D6D PS (C43)  
 S/N 3X, 4X, 5X

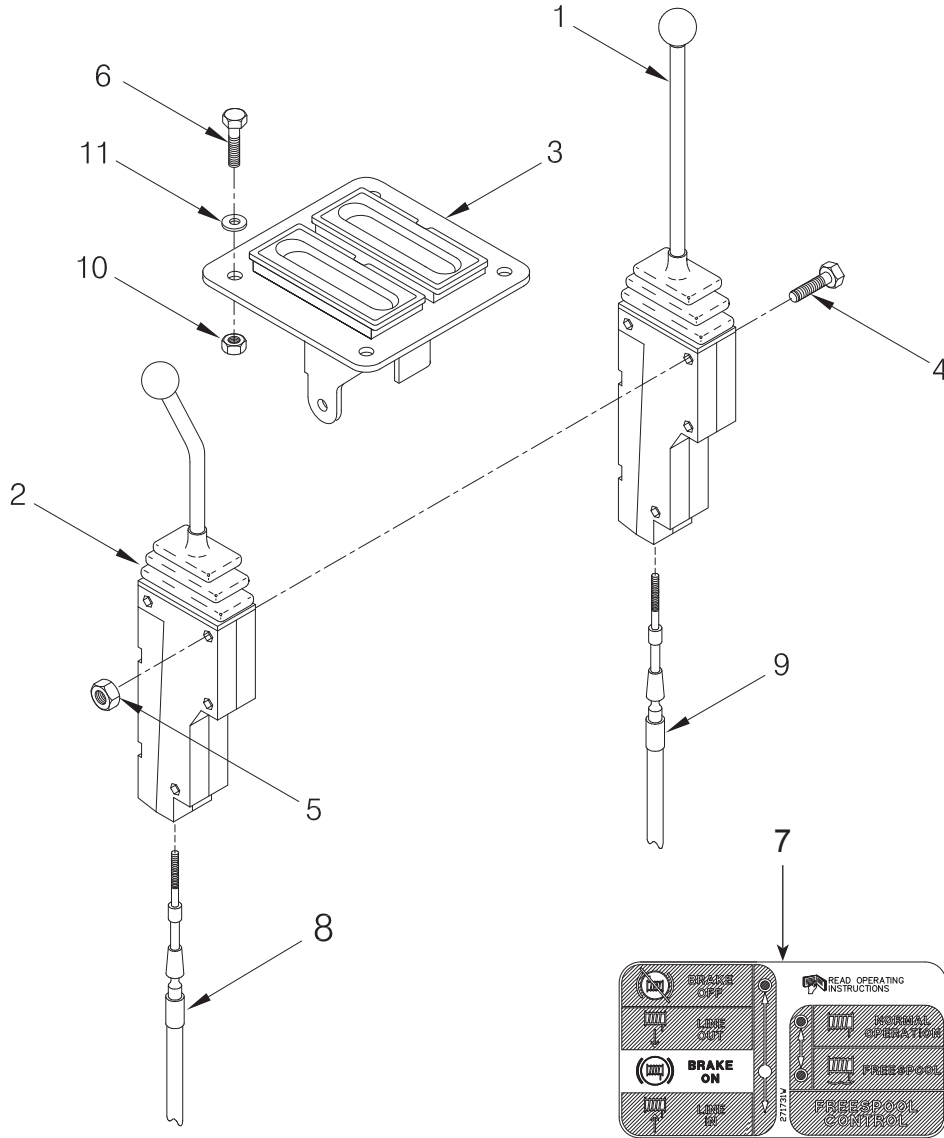


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
17	2304506W	Bracket, Mounting	1	62	2304380W	Sealing, Capscrew	6
35	*b 2303984W	Lever, Control (3-155)	1	65	*a 18717W	Button, Capscrew	2
36	2304380W	Sealing, Capscrew	3	66	383881W	Nut, Tall	2
39	*a 18717W	Button, Capscrew	1	67	271731W	Decal, Control Lever w/ Freespool	1
40	383881W	Nut, Tall	1				
41	277276W	Decal, Control Lever w/o Freespool	1				
60	*c 2303984W	Lever, Control (3-155)	1				
61	2303982W	Lever, Control (3-155)	1				

\*a Use 230064W Locktite Kit  
 \*b Items 35 through 41 Are Used on Winches w/o FS  
 \*c Items 60 through 67 Are Used on Winches w/ FS

### Control Levers

Power Control With Freespool  
 Caterpillar D6G (C73)  
 Page 1 of 2



**Control Levers**

Power Control With Freespool

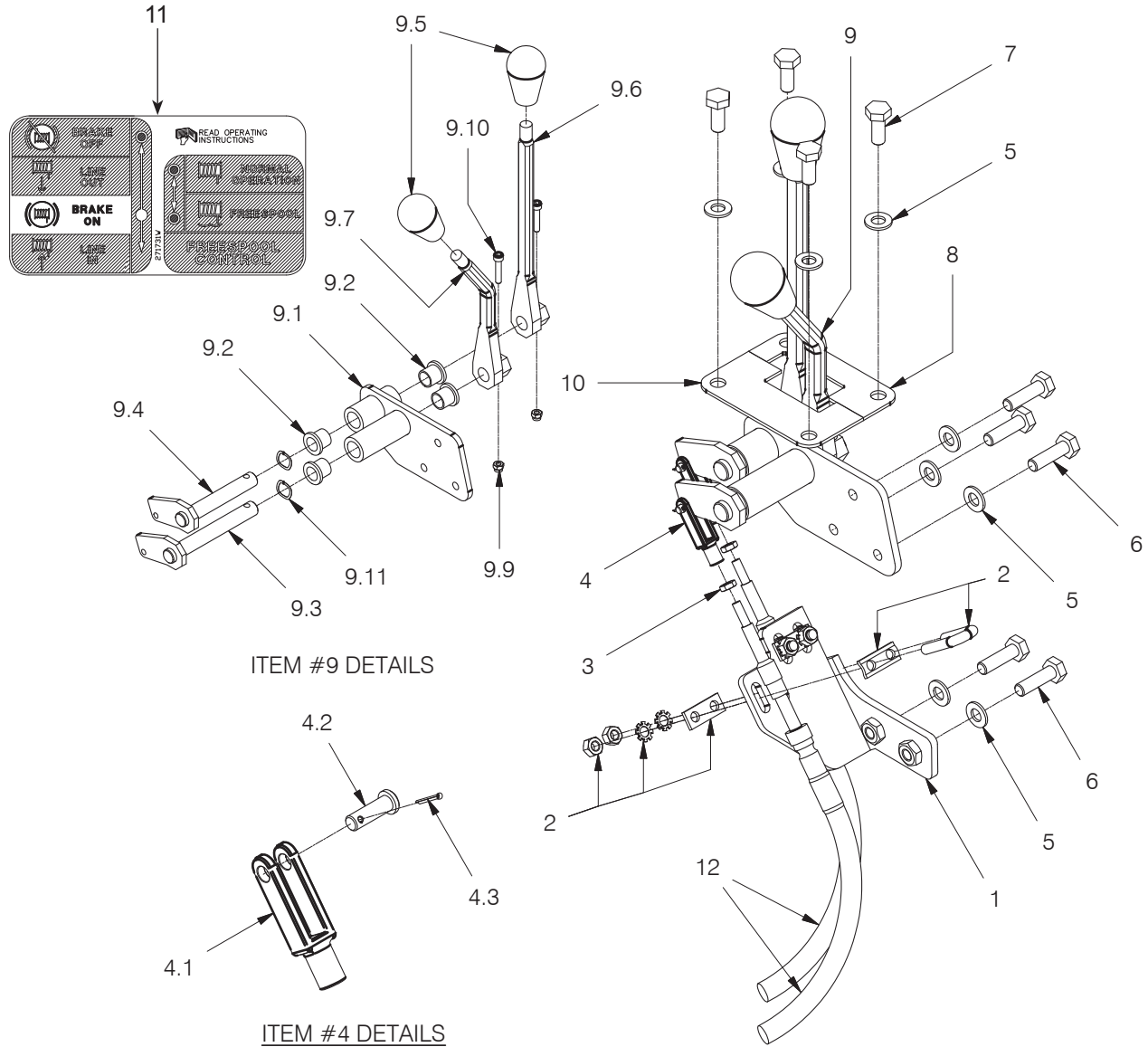
Caterpillar D6G (C73)

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2304565W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2303982W	. Lever, Control (3-155)	1	7	271731W	Decal	1
2	2303986W	. Lever, Control - FS (3-155)	1	8	303941W	Cable, Freespool Control	1
3	2304566W	. Bracket, Control Lever	1	9	303943W	Cable, Push/Pull Control	1
4	2304382W	. Capscrew	3	10	15054W	Nut	4
5	15113W	. Nut	3	11	15154W	Washer	4
6	16338W	Capscrew	4				

### Control Levers

Power Control With Freespool  
Caterpillar D6G2 (C82)  
First Used on S/N AW6F-4748  
Page 1 of 2



**Control Levers**

Power Control With Freespool

Caterpillar D6G2 (C82)

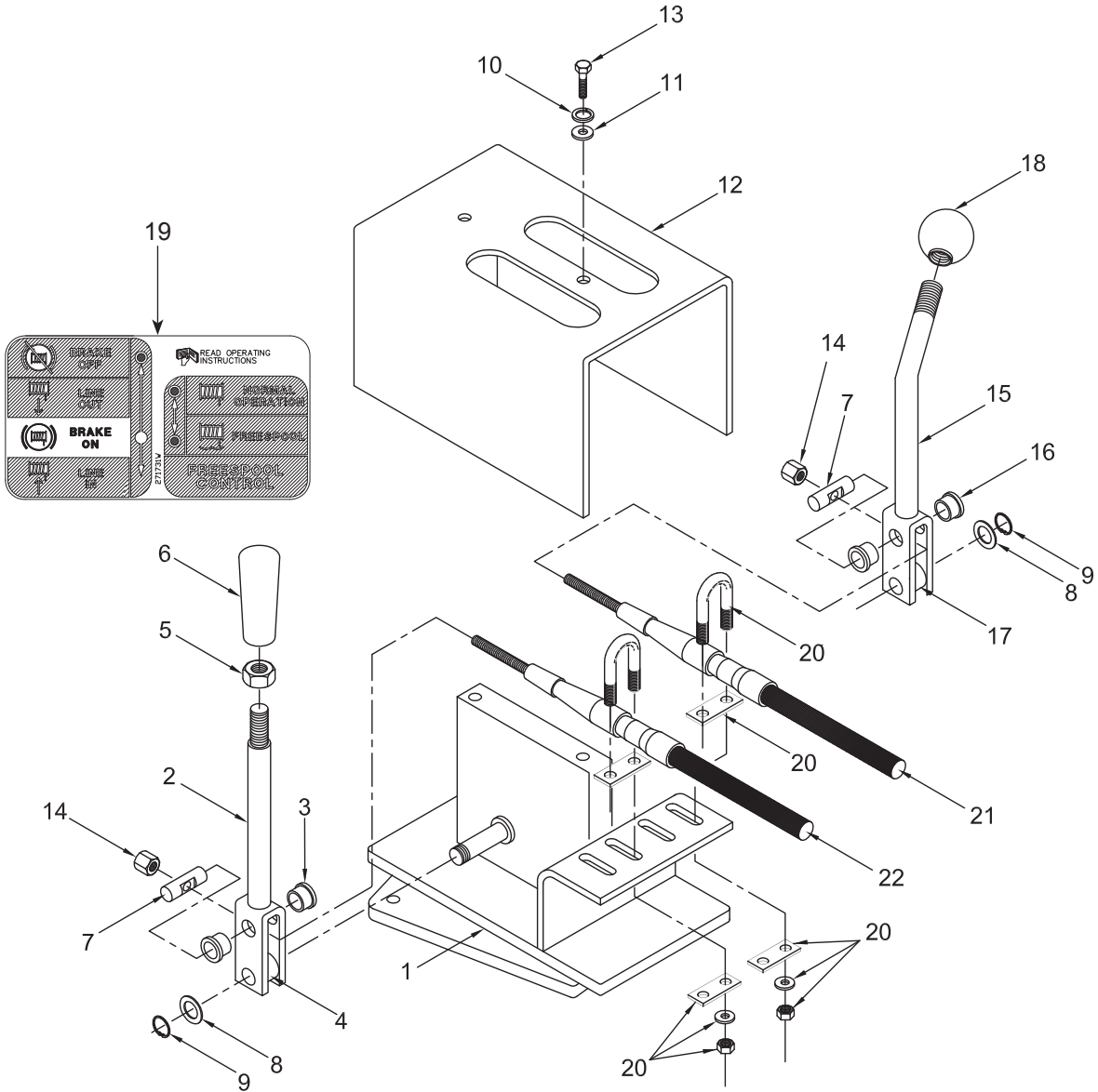
First Used on S/N AW6F-4748

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2312388</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2311801	. Bracket, Cable	1	8	2311798	. Plate, Cover	1
2	2300995W	. Kit, U-Bolt	2	9	2312382	. Assembly, Control Lever	1
	-----	.. U-Bolt	1	9.1	2311809	.. Bracket, Lever Mounting	1
	-----	.. Plate, Cup	1	9.2	257856	.. Bushing, Bronze Flange	4
	-----	.. Plate	1	9.3	2311799	.. Cable Tab, Control Lever	1
	-----	.. Washer, Star	2	9.4	2311804	.. Cable Tab, Control Lever	1
	-----	.. Nut	2	9.5	2304339W	.. Knob	2
3	15024W	. Nut, Jam	2	9.6	2313077	.. Lever, Control	1
4	257818	. End, Clevis Rod	2	9.7	2313078	.. Lever, Freespool	1
4.1	125W	.. End, Rod	1	9.9	302399W	.. Nut	2
4.2	2302115W	.. Pin, Rod End	1	9.10	293797W	.. Capscrew	2
4.3	15200W	.. Pin	1	9.11	2313085	.. Washer, Wave	2
5	296420W	. Washer	9	10	2312454	. Plate, Cover	1
6	Y09C-M1030	. Capscrew	5	11	271731W	. Decal, Control Lever w/ Freespool	1
7	292514W	. Capscrew	4	12	303945W	Cable, Push/Pull & Freespool (120")	2

### Control Levers

Power Control With Freespool  
Caterpillar D6R (C50, C480)  
Last Used on S/N AW6F-4441  
Page 1 of 2





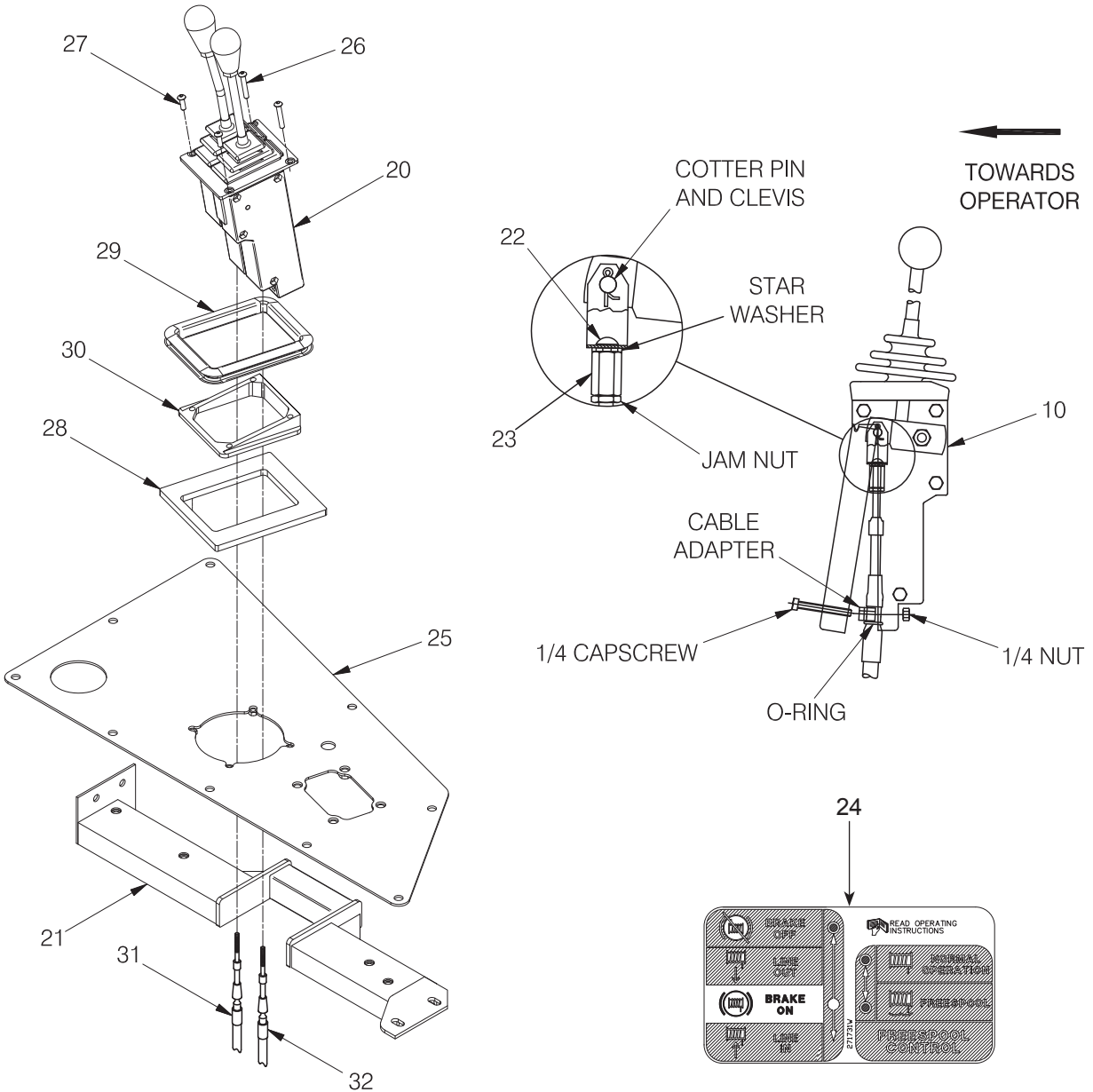
**Control Levers**

Power Control With Freespool  
 Caterpillar D6R (C50, C480)  
 Last Used on S/N AW6F-4441  
 Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>383150W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	381199W	. Bracket	1	15	276037W	. Lever	1
2	276036W	. Assembly, Lever	1	16	196144W	. . Bushing, Nylon	2
3	196144W	. . Bushing, Nylon	2	17	276043W	. . Bushing, Brass	1
4	276043W	. . Bushing, Brass	1	18	243189W	. Knob	1
5	15030W	. Nut	1	19	271731W	Decal	1
6	2303105W	. Knob	1	20	2300995W	Kit, U-Bolt	2
7	196128W	. Pin	2		-----	. U-Bolt	1
8	15135W	. Washer	2		-----	. Plate, Cup	1
9	190930W	. Ring, Snap	2		-----	. Plate	1
10	15155W	. Lockwasher	2		-----	. Washer, Star	2
11	18515W	. Washer	2		-----	. Nut	2
12	332822W	. Cover	1	21	303942W	Cable, Freespool Control	1
13	16836W	. Capscrew	2	22	303944W	Cable, Push/Pull Control	1
14	2301487W	. Nut, Tall	2				

### Control Levers

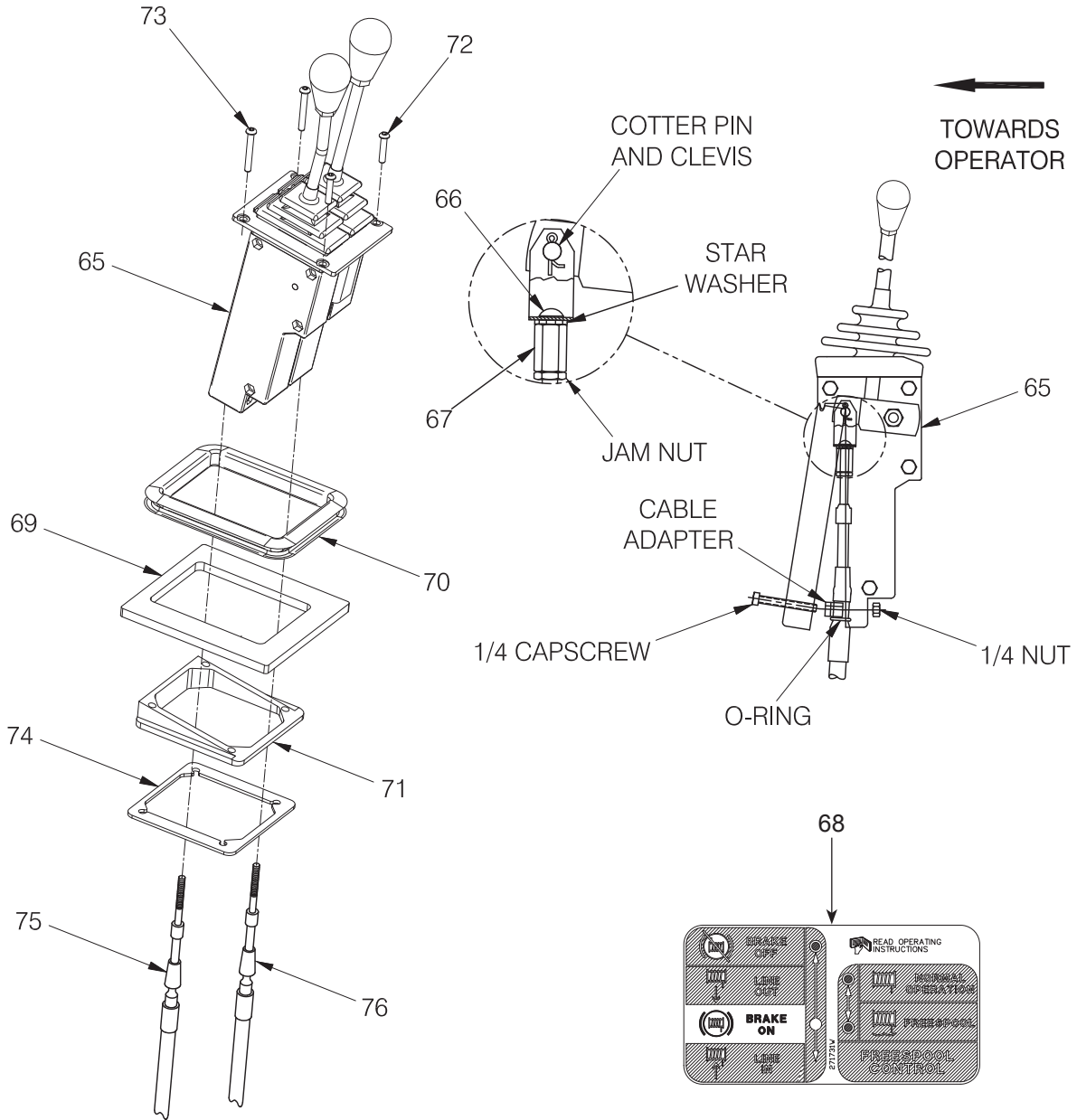
Power Control With Freespool  
 Caterpillar D6R (C50, C480)  
 First Used on S/N AW6F-4442



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
20	2304899W	Assembly, Control Lever (3-161)	1	27	Y25G-0416	Capscrew	2
21	2304571W	Assembly, Channel	1	28	2304569W	Gasket	1
22	18717W	Capscrew	2	29	2301055W	Trim, Vinyl Protective	1.75 ft
23	383881W	Nut, Tall	2	30	2304879W	Spacer, W/ Freespool	1
24	271731W	Decal, W/ Freespool	1	31	303944W	Cable, Push/Pull Control	1
25	2304577W	Assembly, Cover	1	32	303942W	Cable, Freespool Control	1
26	2304881W	Capscrew	2				

### Control Levers

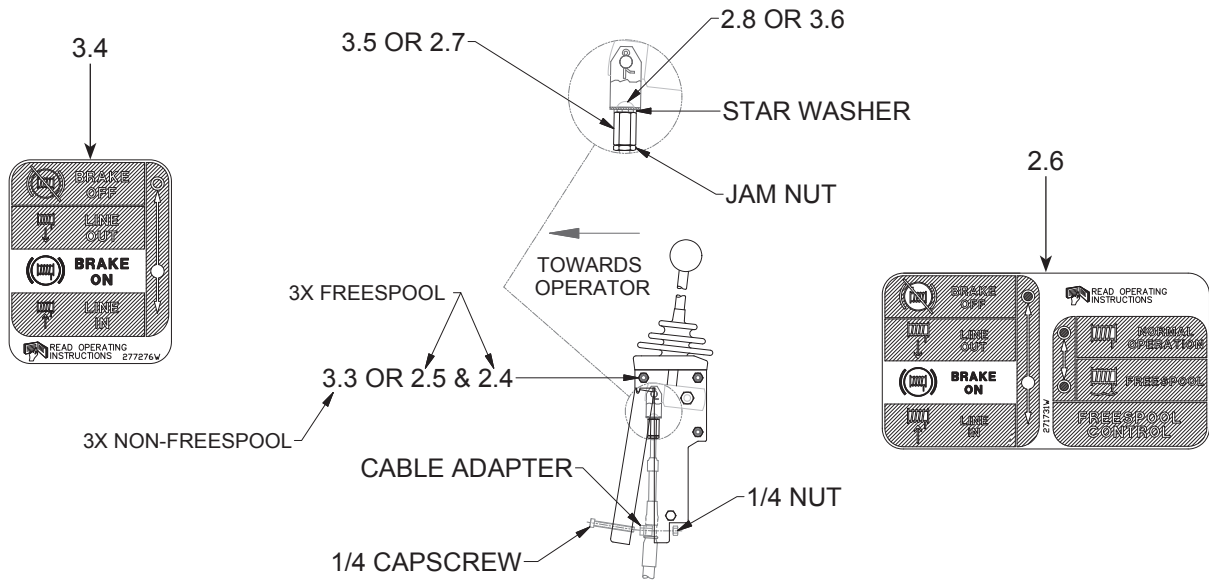
Power Control With Freespool  
Caterpillar D6R Series II & III (C71)



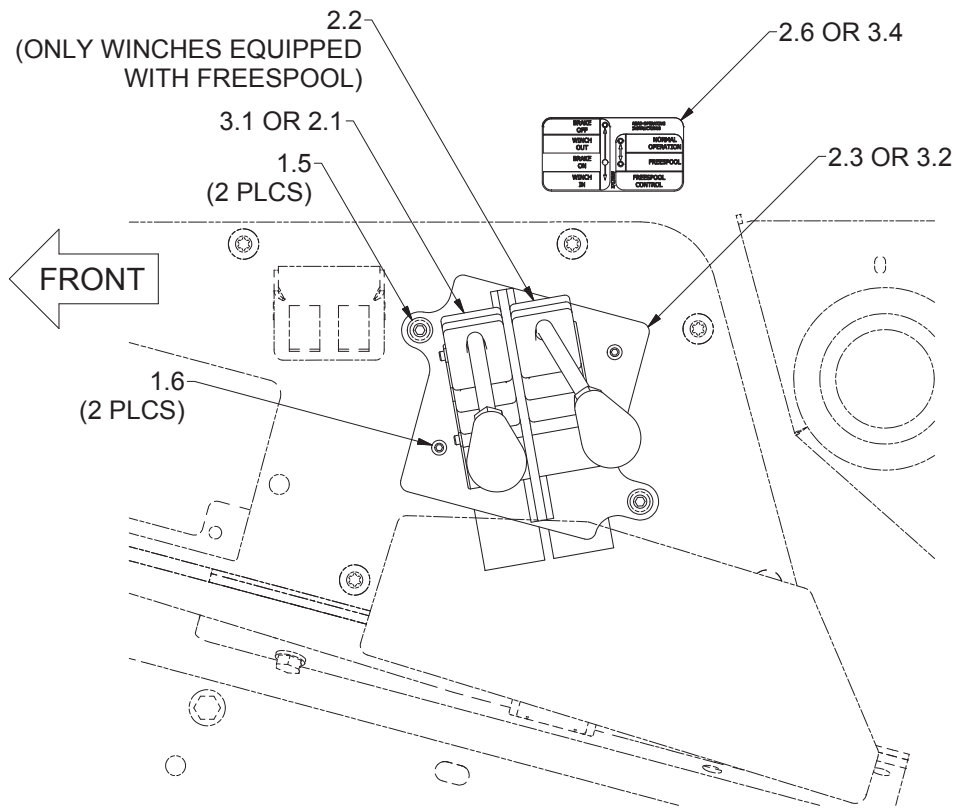
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
65	2304899W	Assembly, Control Lever (3-161)	1	71	2304879W	Spacer	1
66	18717W	Capscrew	1	72	296162W	Capscrew	2
67	383881W	Nut, Tall	1	73	2305199W	Capscrew	2
68	271731W	Decal, With Freespool	1	74	2305203W	Gasket	1
69	2304569W	Gasket	1	75	303944W	Cable, Push/Pull Control	1
70	2301055W	Trim, Vinyl Protective	1.75FT	76	303942W	Cable, Freespool Control	1

### Control Levers

Power Control With and Without Freespool  
 Caterpillar D6R2 (C711)  
 For Tractors with Serial Numbers Prefixes: PPP, SSS & TTT  
 Page 1 of 2



**CONTROL LEVER DETAIL**



**RIGHT HAND CONSOLE  
 FREESPOOL CONTROLS SHOWN**

**Control Levers**

Power Control With and Without Freespool

Caterpillar D6R2 (C711)

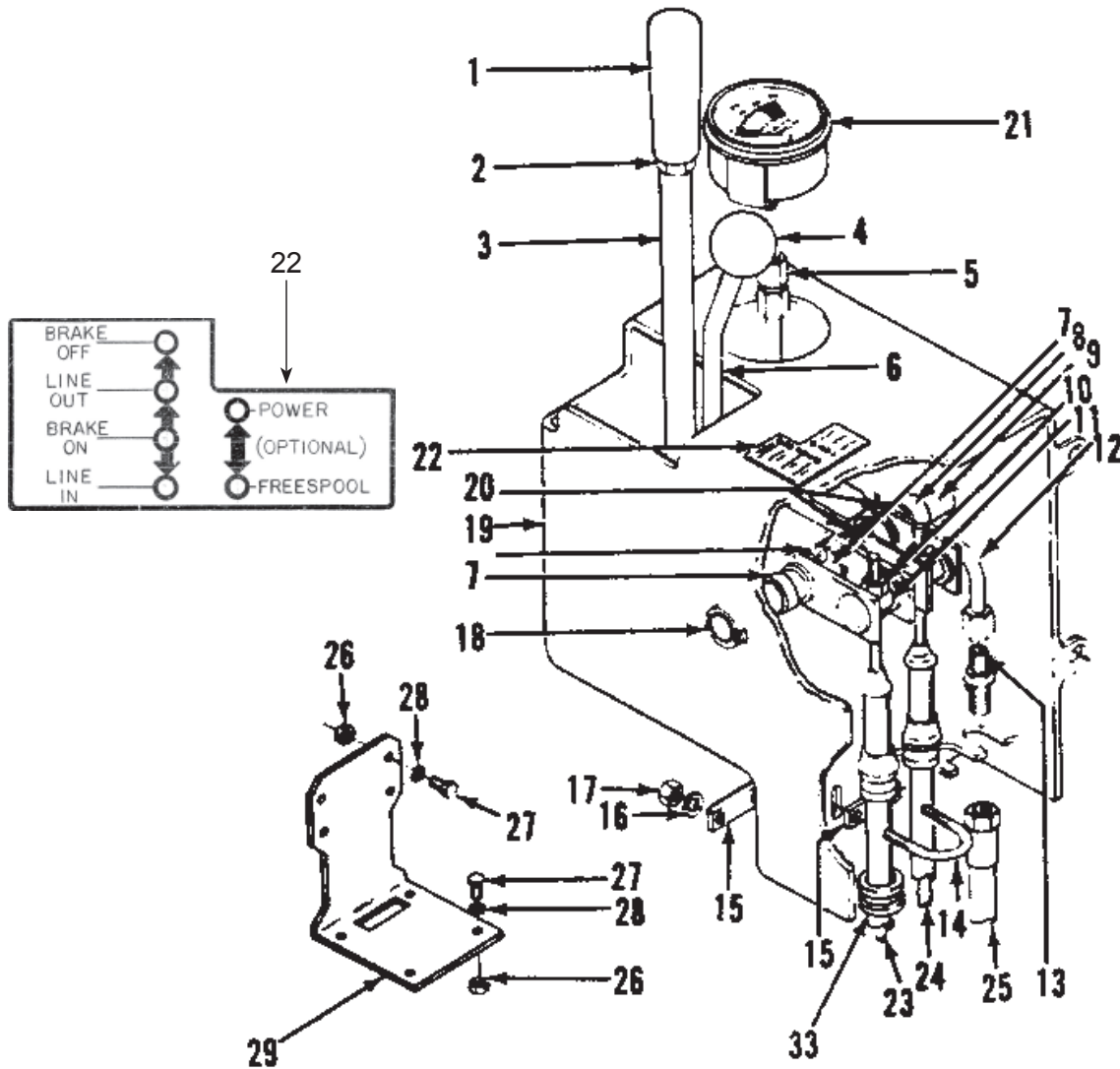
For Tractors with Serial Numbers Prefixes: PPP, SSS &amp; TTT

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1.5	296175W	Capscrew	2	2.8	18717W	Capscrew	2
1.6	296162W	Capscrew	2	3.1	2306703W	Lever, Control - 60° Bend (3-155)	1
2.1	2306703W	Lever, Control - 60° Bend (3-155)	1	3.2	2315805	Bracket, Control Lever w/o FS	1
2.2	2306704W	Lever, Control - 60° Bend (3-155)	1	3.3	232987	Capscrew	3
2.3	2315802	Bracket, Control Lever w/FS	1	3.4	277276W	Decal, Control Lever PFR w/o FS	1
2.4	2304382W	Capscrew	3	3.5	383881W	Nut, Tall	1
2.5	15113W	Nut	3	3.6	18717W	Capscrew	1
2.6	271731W	Decal, Control Lever PFR w/FS	1	3.7	303944W	Cable, Control (Not Shown)	1
2.7	383881W	Nut, Tall	2	3.8	303942W	Cable, Freespool (Not Shown)	1

### Control Levers

Power Control With Freespool  
 Dresser TD-15B/TD-15C (H41) and TD-15E (H44, H45)  
 Last Used During 1993  
 Page 1 of 2



Parts Service Gram	
Item	Gram
3, 7, 8, 9, 10, 19, 21	Contact your dealer.

**Control Levers**

Power Control With Freespool

Dresser TD-15B/TD-15C (H41) and TD-15E (H44, H45)

Last Used During 1993

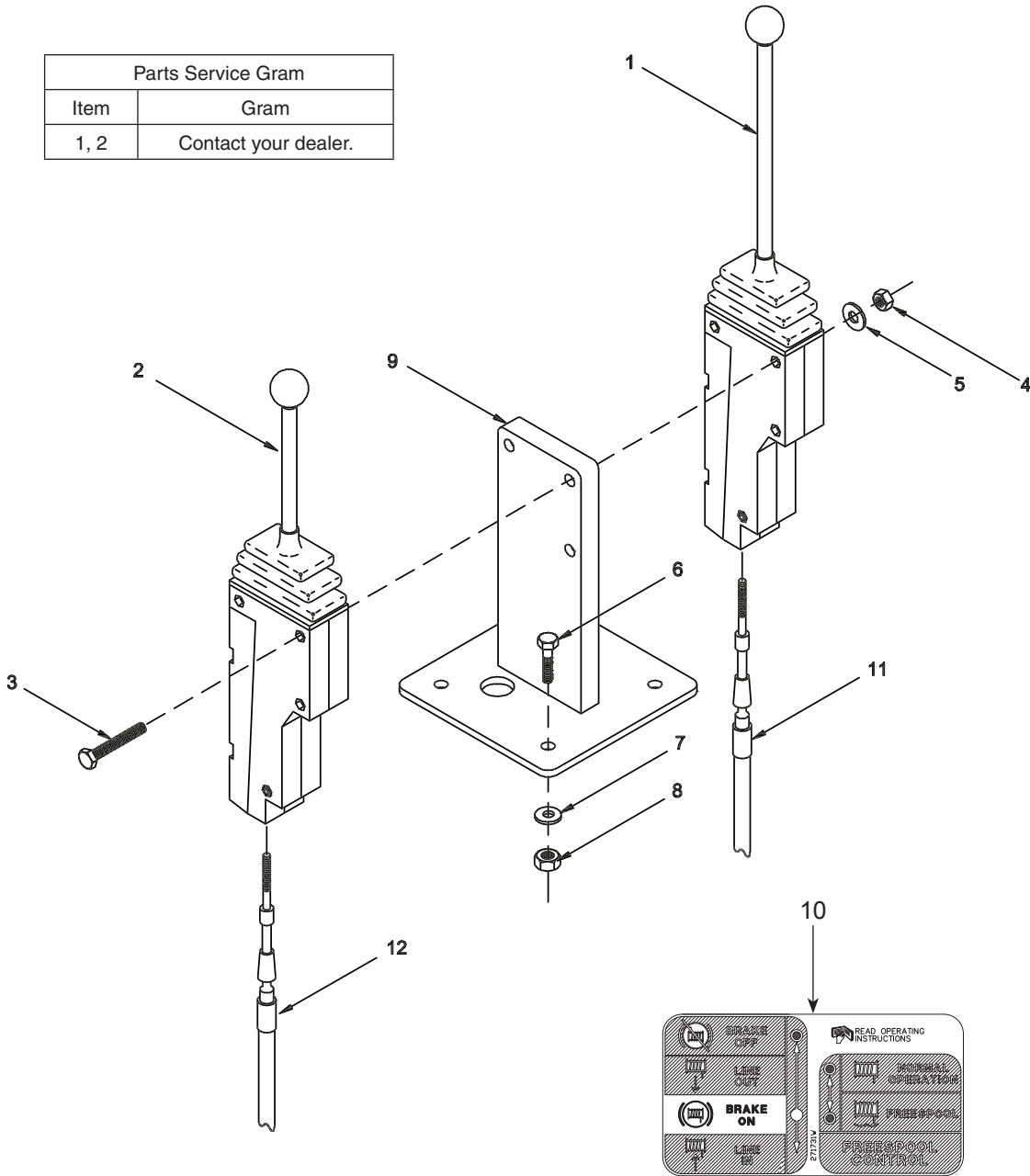
Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>227468W</b>	<b>Assembly, Control Lever - FS</b>	<b>1</b>	19	196114W	. Housing	1
1	2303105W	. Knob	1	20	391016W	. Washer	2
2	15030W	. Nut, Jam	1	21	192407W	. Gauge, Oil Pressure	1
3	276031W	. Lever	1	22	271731W	Decal	1
4	243189W	. Knob	1	23	*b 303941W	Cable, Push/Pull Control	1
5	14712W	. Fitting	1	23	*a 303944W	Cable, Push/Pull Control	1
6	276032W	. Lever	1	24	*b 303938W	Cable, Freespool Control	1
6	276043W	. Bushing	1	24	*a 303942W	Cable, Freespool Control	1
7	196132W	. Spacer	2	25	*a 265325W	Assembly, Hose	1
7	15135W	. Washer	3	25	*b 165504W	Assembly, Hose	1
8	271746W	. Spacer	1	26	*b 15056W	Nut	8
9	276041W	. Pin	1	26	*a 15056W	Nut	4
10	18425W	. Lockwasher	2	27	*b 16828W	Capscrew	8
10	15106W	. Locknut	2	27	*a 16805W	Capscrew	4
11	196128W	. Pin	2	28	*b 15156W	Lockwasher	8
12	196134W	. Assembly, Tube	1	28	*a 15156W	Lockwasher	9
13	16445W	. Fitting	1	29	*a 338845W	Bracket, Lever	1
13	14758W	. Adapter	1	29	*b 217221W	Bracket	1
14	*c -----	. U-Bolt	2	33	*a 143413W	Grommet	3
15	*c -----	. Spacer	4				
16	*c -----	. Lockwasher	4		*a Dresser TD-15E		
17	*c -----	. Nut	4		*b Dresser TD-15B and TD-15C		
18	15225W	. Pin, Cotter	2		*c Included in 2300995W U-bolt Kit (2 Required)		

### Control Levers

Power Control With Freespool  
 Dresser TD-15B/TD-15C (H41)  
 "New Style" Implemented During 1993  
 Last Used on S/N AW6F-4403

Parts Service Gram	
Item	Gram
1, 2	Contact your dealer.

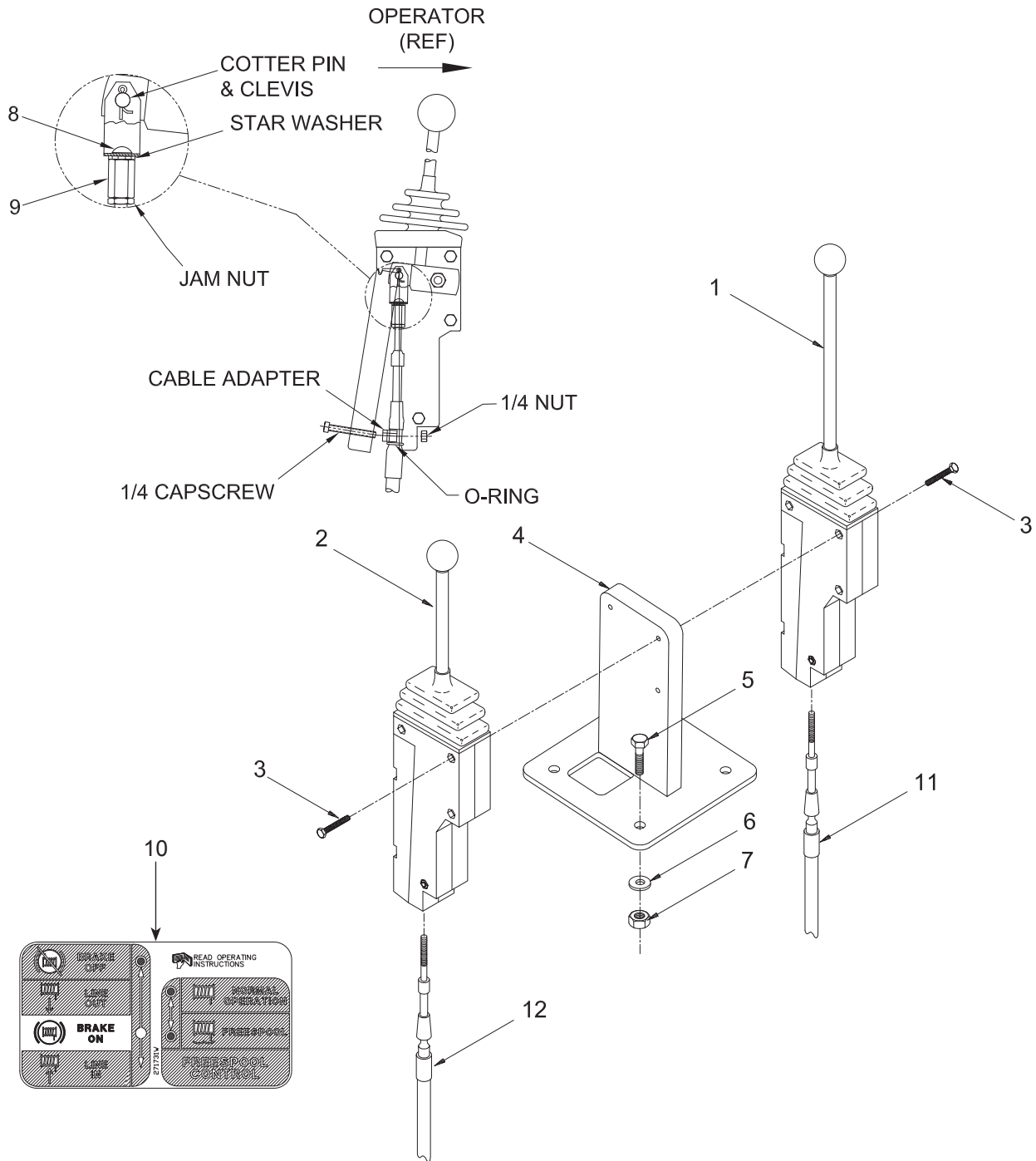


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	1300785W	Lever, Control (3-152)	1	7	217221W	Lockwasher	4
2	383880W	Lever, Control - FS (3-153)	1	8	15056W	Nut	4
3	18528W	Capscrew	3	9	2300369W	Bracket	1
4	191534W	Nut	3	10	271731W	Decal, Control Lever	1
5	18515W	Washer	3	11	303941W	Cable, Push/Pull Control	1
6	16848W	Capscrew	4	12	303938W	Cable, Freespool Control	1



### Control Levers

Power Control With Freespool  
 Dresser TD-15B/TD-15C (H41)  
 "New Style" Implemented During 1993  
 First Used on AW6F-4404

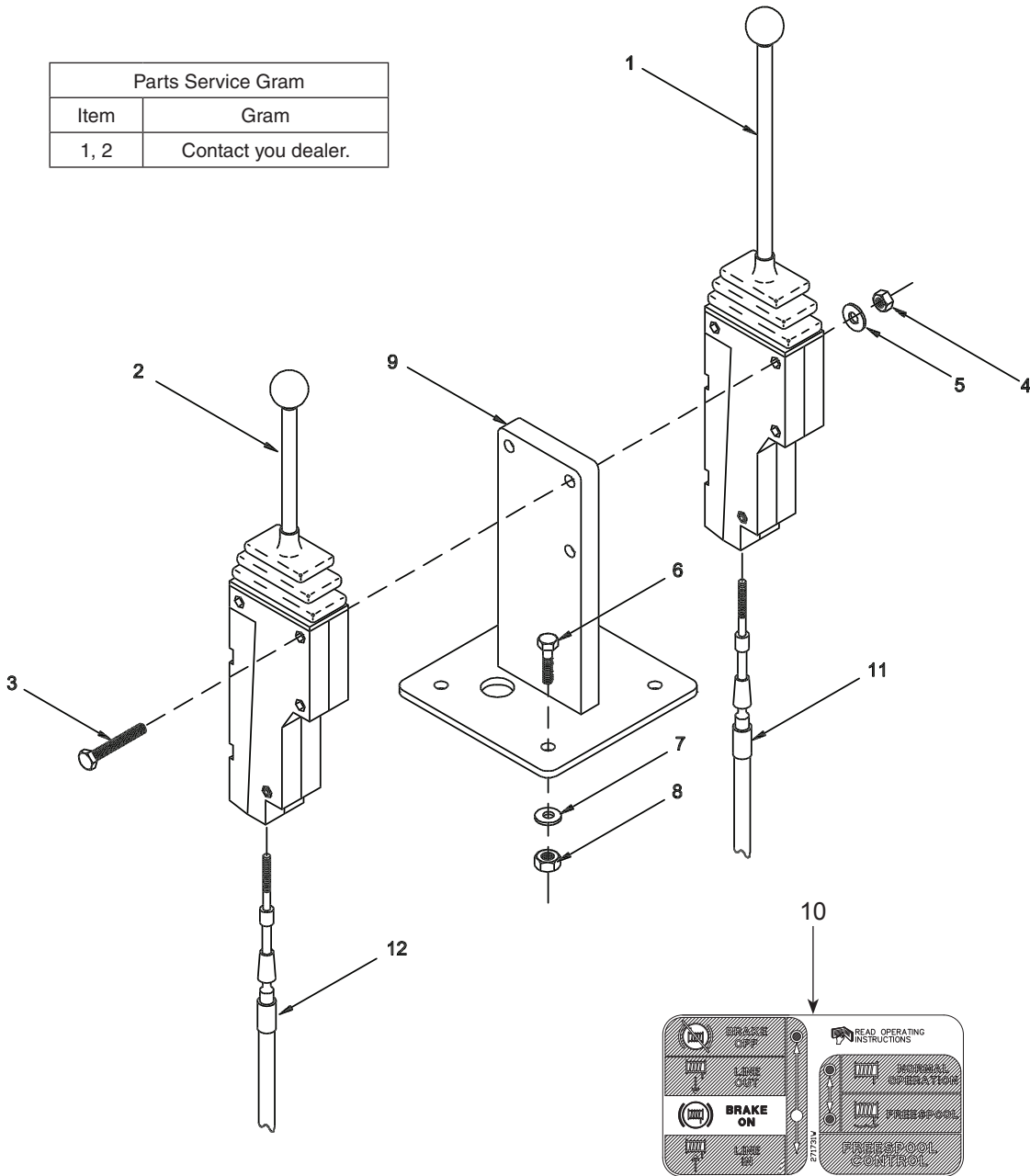


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303984W	Lever, Control (3-155)	1	8	*a 18717W	Cap screw	2
2	2303982W	Lever, Control - FS (3-155)	1	9	383881W	Nut, Tall	2
3	2304380W	Cap screw	6	10	271731W	Decal, Control Lever - w/ FS	1
4	2304387W	Bracket, Mounting	1	11	303941W	Cable, Push/Pull Control	1
5	16828W	Cap screw	4	12	303938W	Cable, Freespool Control	1
6	15156W	Lockwasher	4				
7	15056W	Nut	4		*a	Use 230064W Loctite Kit	

### Control Levers

Power Control With Freespool  
 Dresser TD-15E (H44, H45)  
 "New Style" Implemented During 1993  
 Last Used on S/N AW6F-4403

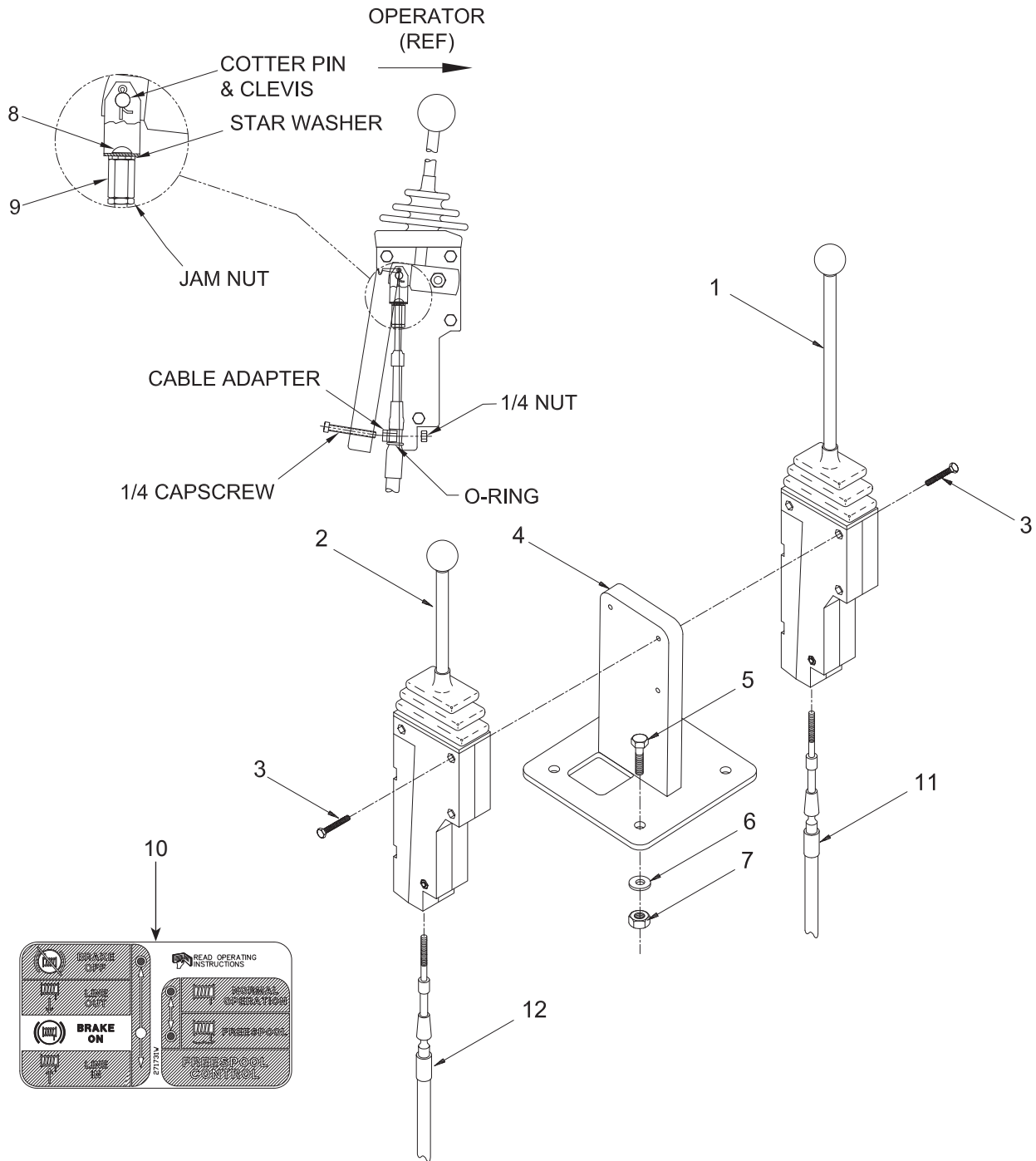
Parts Service Gram	
Item	Gram
1, 2	Contact you dealer.



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	1300785W	Lever, Control (3-152)	1	7	217221W	Lockwasher	4
2	383880W	Lever, Control - FS (3-153)	1	8	15056W	Nut	4
3	18528W	Capscrew	3	9	2300369W	Bracket	1
4	191534W	Nut	3	10	271731W	Decal, Control Lever	1
5	18515W	Washer	3	11	303944W	Cable, Push/Pull Control	1
6	16848W	Capscrew	4	12	303942W	Cable, Freespool Control	1

### Control Levers

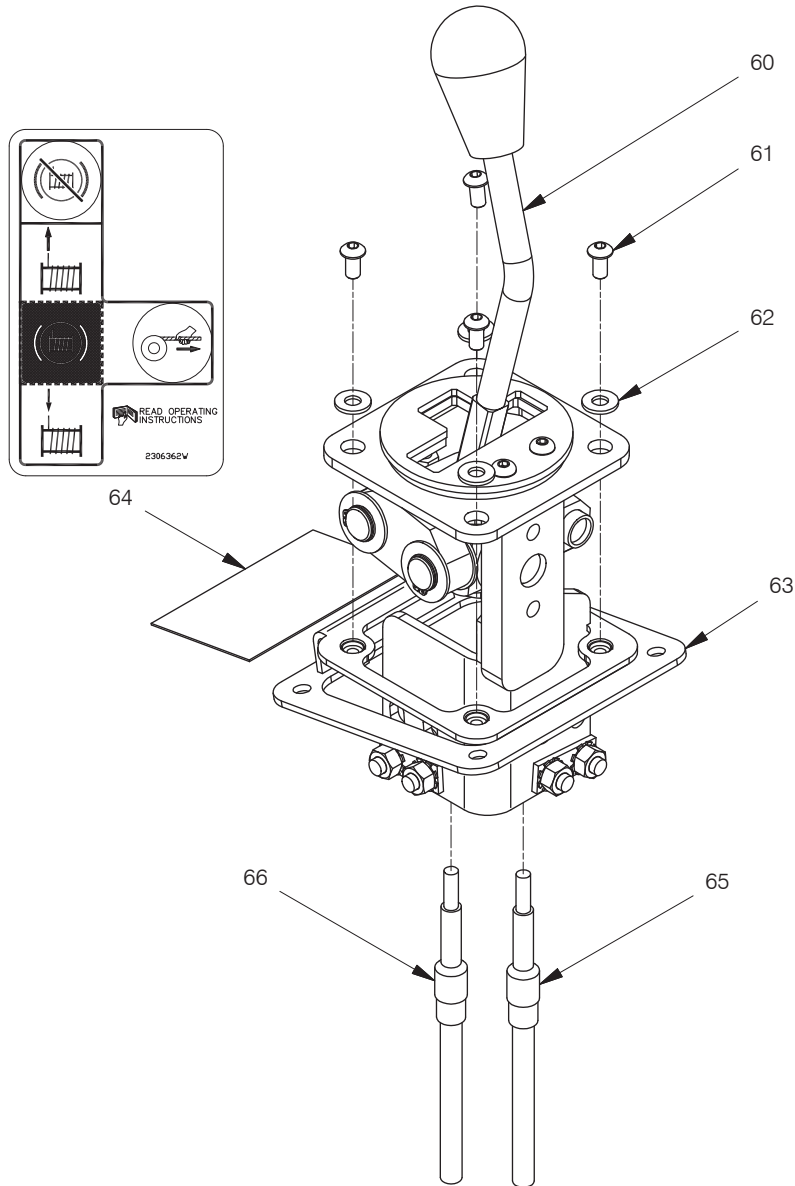
Power Control With Freespool  
 Dresser TD-15E (H44, H45)  
 "New Style" Implemented During 1993  
 First Used on AW6F-4404



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303984W	Lever, Control (3-155)	1	8	*a 18717W	Capscrew	2
2	2303982W	Lever, Control - FS (3-155)	1	9	383881W	Nut, Tall	2
3	2304380W	Capscrew	6	10	271731W	Decal, Control Lever - w/ FS	1
4	2304387W	Bracket, Mounting	1	11	303944W	Cable, Push/Pull Control	1
5	16828W	Capscrew	4	12	303942W	Cable, Freespool Control	1
6	15156W	Lockwasher	4				
7	15056W	Nut	4		*a	Use 230064W Loctite Kit	

### Control Levers

Power Control With Freespool  
 Dressta TD-15H Tier II & TD-15M (H47)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
60	2310118	Lever, Control (3-159)	1	64	2306362W	Decal	1
61	Y25G-0408	Capscrew	4	65	303944W	Cable, Push/Pull Control	1
62	15127W	Washer	4	66	303942W	Cable, Freespool Control	1
63	2310116	Bracket	1				

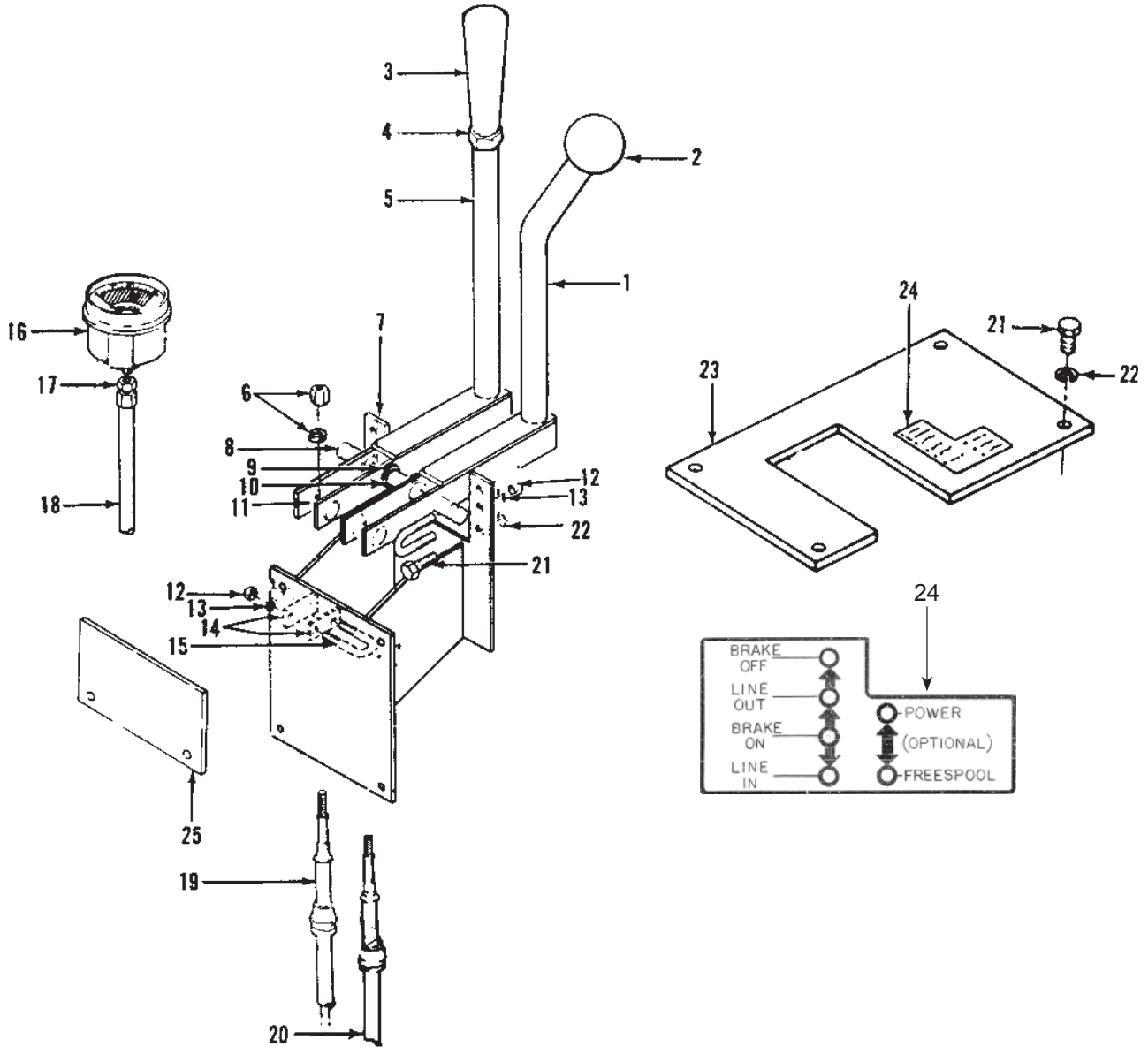
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### Control Levers

Power Control With Freespool

Fiat Allis 10C (A47), 14B (A44, A45), 14C (A44, A45, A46) and FD14 (A48)

Page 1 of 2



**Control Levers**

Power Control With Freespool

Fiat Allis 10C (A47), 14B (A44, A45), 14C (A44, A45, A46) and FD14 (A48)

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>287027W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	276032W	. Lever	1	18	*a, *e 165504W	Assembly, Hose	1
1	276043W	. . Bushing	1	18	*b, *e 205004W	Assembly, Hose	1
2	243189W	. Knob	1	19	*a 303941W	Cable, Push/Pull Control	1
3	2303105W	. Knob	1	19	*b 303943W	Cable, Push/Pull Control	1
4	15030W	. Nut, Jam	1	19	*c, *d 303945W	Cable, Push/Pull Control	1
5	276031W	. Lever	1	20	*a 303941W	Cable, Freespol Control	1
5	276043W	. . Bushing	1	20	*b 303940W	Cable, Freespol Control	1
6	15106W	. Locknut	2	20	*c, *d 303945W	Cable, Freespol Control	1
6	18425W	. Lockwasher	2	21	16805W	Capscrew	8
7	283431W	. Bracket	1	22	15156W	Lockwasher	8
8	276081W	. Pin	1	23	287028W	Cover	1
9	15135W	. Washer	4	24	271731W	Decal	1
10	77418W	. Block, Round	1	25	283430W	Plate	1
11	196128W	. Pin	2				
12	*f -----	. Nut	4		*a Fiat-Allis 10C		
13	*f -----	. Lockwasher	4		*b Fiat-Allis 14B and 14C		
14	*f -----	. Spacer	4		*c Fiat-Allis FD14		
15	*f -----	. U-Bolt	2		*d Fiat-Allis 14C First Used on S/N AW6F-1001		
16	*e 192407W	Gauge, Oil Pressure	1		*e Last used on S/N AW6F-1000		
17	*e 14712W	Fitting	1		*f Included in 2300995W U-Bolt Kit (2 Required)		

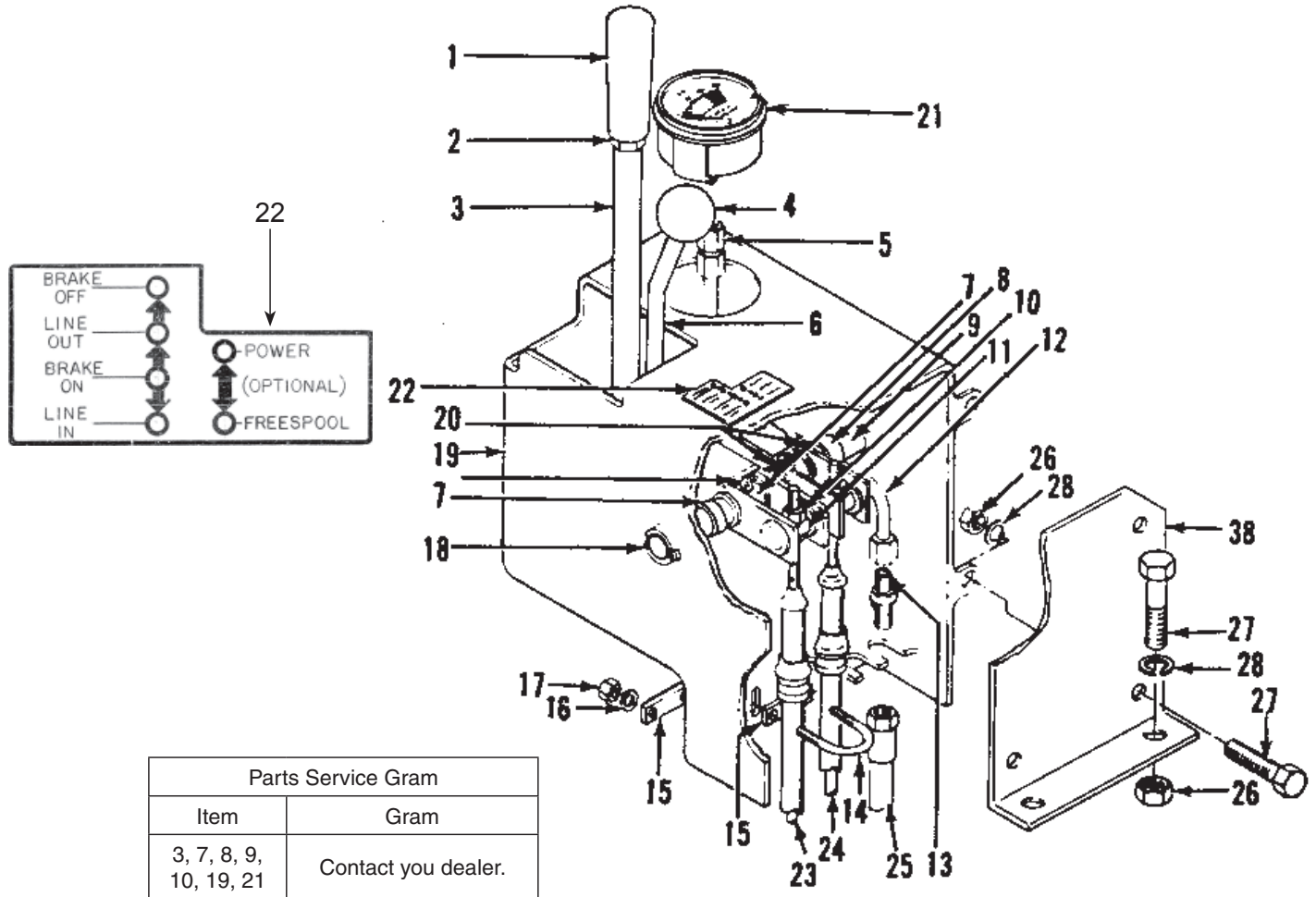
### Control Levers

Power Control With Freespool

Fiat Allis 11B (A41, A42)

Last Used During 1993

Page 1 of 2



Parts Service Gram	
Item	Gram
3, 7, 8, 9, 10, 19, 21	Contact you dealer.



**Control Levers**

Power Control With Freespool

Fiat Allis 11B (A41, A42)

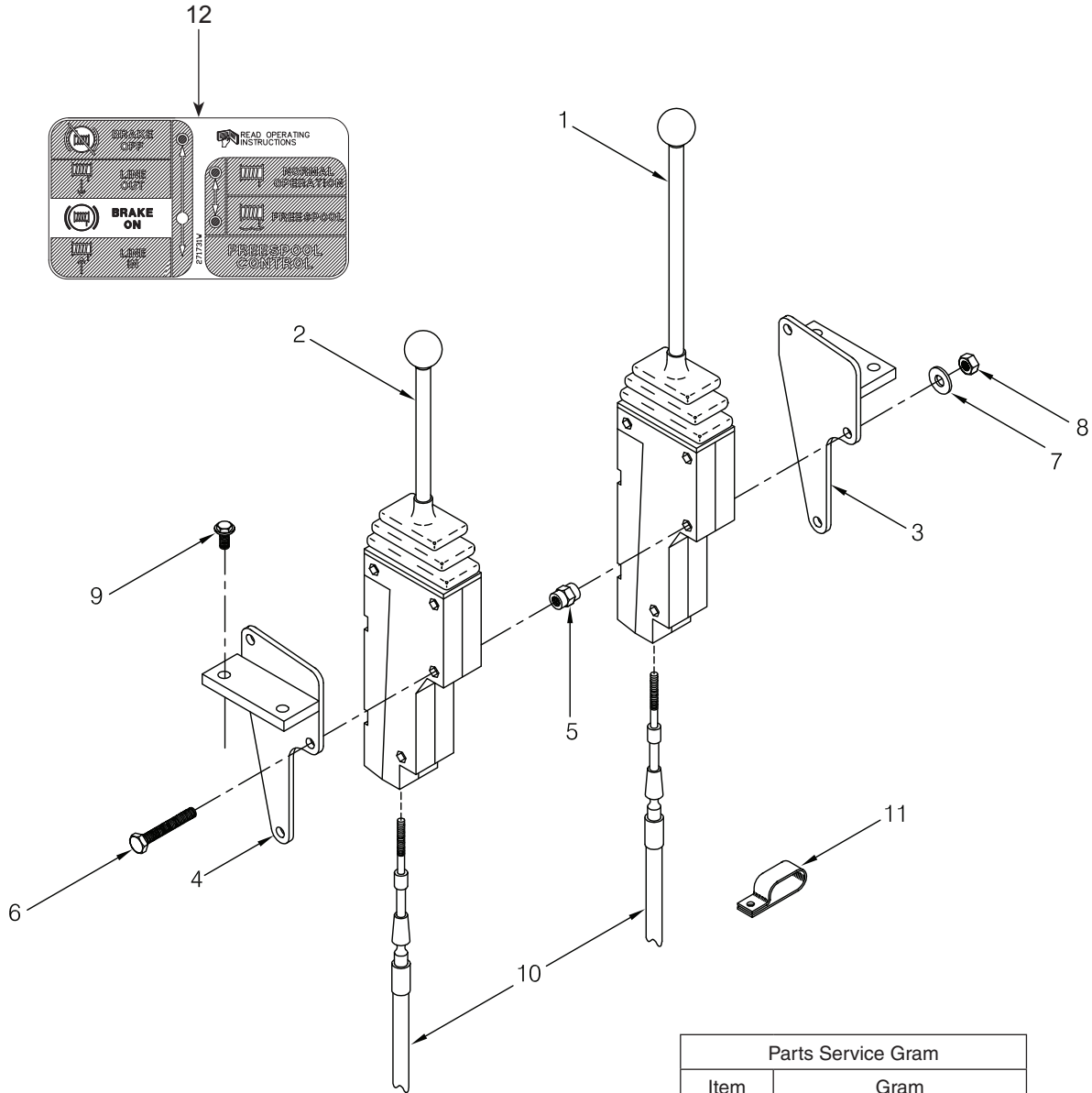
Last Used During 1993

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>227468W</b>	<b>Assembly, Control Lever - FS</b>	<b>1</b>				
1	2303105W	. Knob	1	14	*a -----	. U-Bolt	2
2	15030W	. Nut, Jam	1	15	*a -----	. Spacer	4
3	276031W	. Lever	1	16	*a -----	. Lockwasher	4
4	243189W	. Knob	1	17	*a -----	. Nut	4
5	14712W	. Fitting	1	18	15225W	. Pin, Cotter	2
6	243188W	. Lever	1	19	196114W	. Housing	1
6	276032W	. Lever	1	20	391016W	. Washer	2
6	276043W	. . Bushing	1	21	192407W	. Gauge, Oil Pressure	1
7	196132W	. Spacer	2	22	271731W	Decal	1
7	15135W	. Washer	3	23	303939W	Cable, Push/Pull Control	1
8	271746W	. Spacer	1	24	303938W	Cable, Freespool Control	1
9	276041W	. Pin	1	25	165504W	Assembly, Hose	1
10	18425W	. Lockwasher	2	26	15056W	Nut	4
10	15106W	. Locknut	2	27	16805W	Capscrew	9
11	196128W	. Pin	2	28	15156W	Lockwasher	9
12	196134W	. Assembly, Tube	1	38	201847W	Bracket	1
13	16445W	. Fitting	1				
13	14758W	. . Adapter	1		*a	Included in 2300995W U-Bolt Kit (2 Required)	

### Control Levers

Power Control With Freespool  
 Fiat-Hitachi 14E (A48), FD195 (A48) and FD175 (A48)  
 Last Used on S/N AW6F-4407

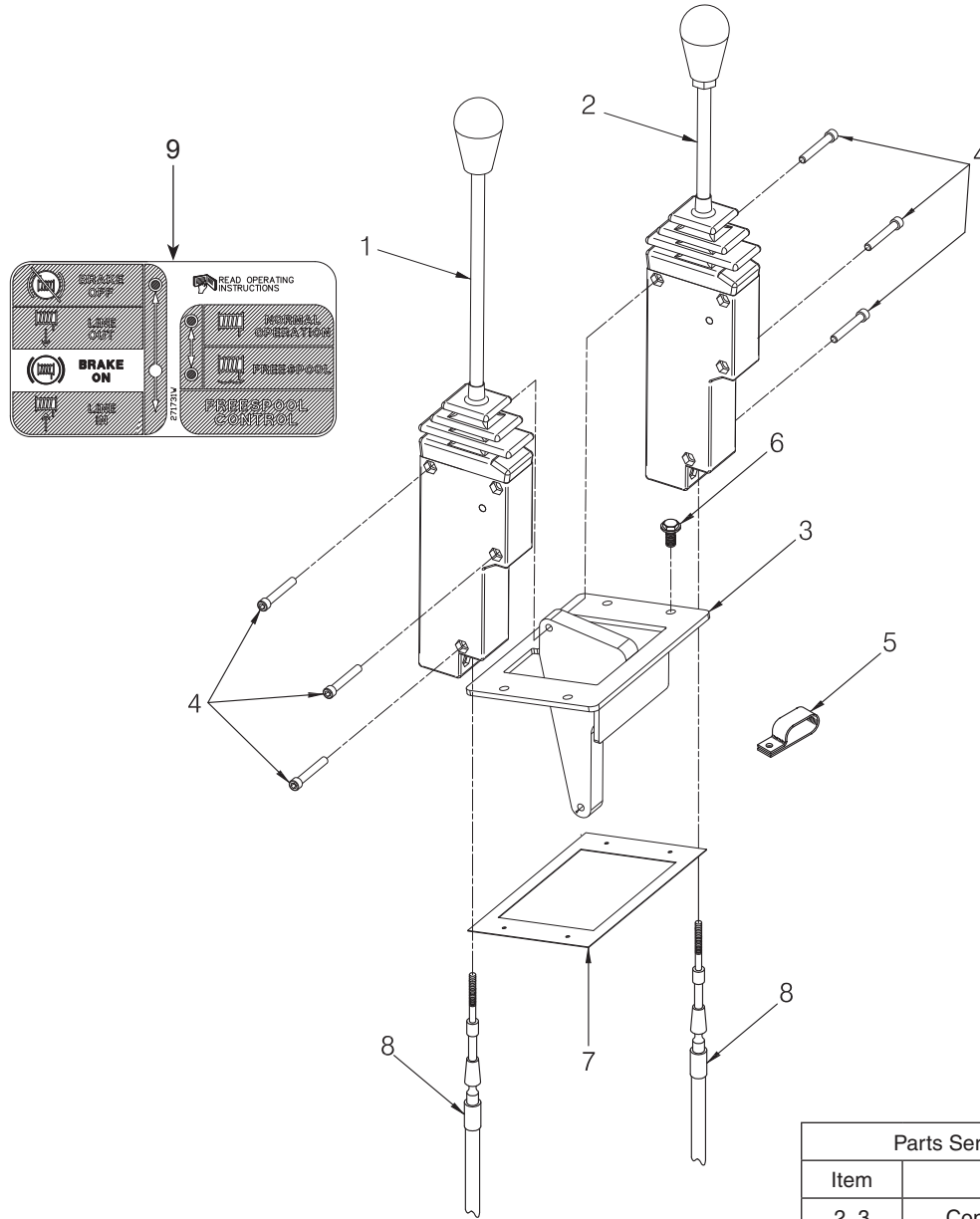


Parts Service Gram	
Item	Gram
2, 3	Contact your dealer.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>1321651W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	1300785W	. Lever, Control (3-152)	1	7	15155W	. Washer	3
2	383880W	. Lever, Control - FS (3-153)	1	8	15055W	. Nut	3
3	1308437W	. Bracket, RH	1	9	397161W	Capscrew	4
4	1308436W	. Bracket, LH	1	10	303945W	Cable, Control	2
5	16168W	. Spacer	3	11	110322W	Clamp	2
6	18530W	. Capscrew	3	12	271731W	Decal	1

### Control Levers

Power Control With Freespool  
 Fiat-Hitachi 14E (A48), FD195 (A48) and FD175 (A48)  
 First Used on S/N AW6F-4408



Parts Service Gram	
Item	Gram
2, 3	Contact you dealer.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2304329W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2303984W	. Lever, Control (3-155)	1	6	397161W	Capscrew	4
2	2303982W	. Lever, Control - FS (3-155)	1	7	1321658W	Template, Quadrastat Hole Pattern	1
3	2304394W	. Mounting, Control Lever	1	8	303945W	Cable, Control	2
4	2304380W	. Capscrew	6	9	271731W	Decal	1
5	110322W	Clamp	2				

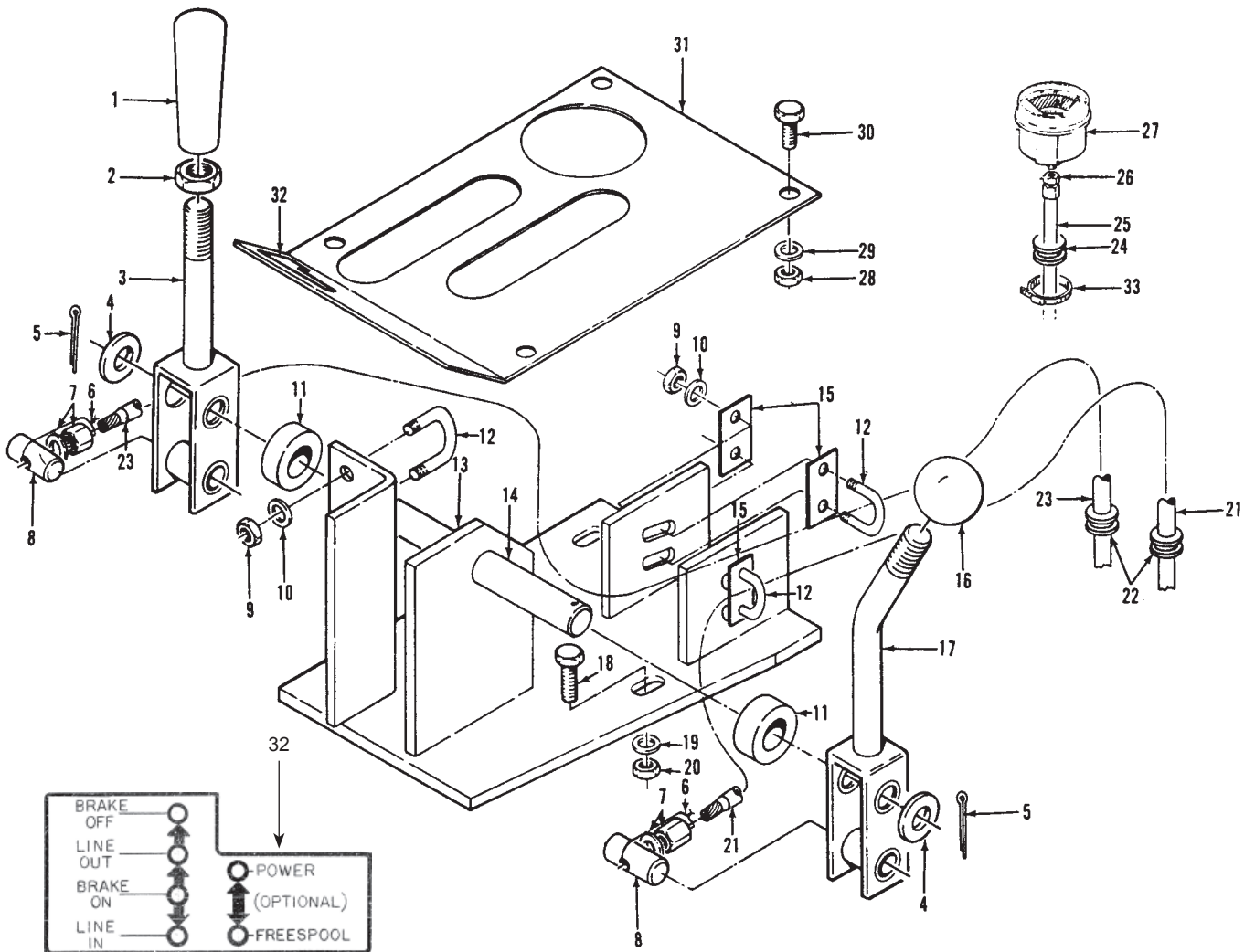
### Control Levers

Power Control With Freespool

John Deere 750 (E32) and 850 (E42) With Cab

First Used on S/N W6F-7144 and AW6F-1001 for John Deere 750B (E32) and 850B (E42) With Cab

Page 1 of 2



**Control Levers**

Power Control With Freespool

John Deere 750 (E32) and 850 (E42) With Cab

First Used on S/N W6F-7144 and AW6F-1001 for John Deere 750B (E32) and 850B (E42) With Cab

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303105W	Knob	1	19	15155W	Lockwasher	3
2	15030W	Nut, Jam	1	20	15055W	Nut	3
3	335468W	Lever	1	21	303942W	Cable, Control	1
3	276043W	. Bushing	1	22	69727W	Grommet	2
4	15135W	Washer	2	23	303943W	Cable, Control	1
5	15225W	Pin, Cotter	2	23	*b 303944W	Cable, Control	1
6	67355W	Wire	2	24	239419W	Grommet	1
7	18425W	Lockwasher	2	25	398890W	Assembly, Hose	1
7	15106W	Locknut	2	26	14516W	Fitting	1
8	196128W	Pin	2	27	192407W	Gauge, Oil Pressure	1
9	*c -----	Nut	6	28	15054W	Nut	4
10	*c -----	Lockwasher	6	29	15154W	Lockwasher	4
11	391016W	Washer	2	30	18460W	Capscrew	4
12	*c -----	U-Bolt	3	31	*a 336856W	Cover	1
13	336854W	Bracket	1	32	271731W	Decal	1
14	335470W	Pin	1	33	114312W	Clamp, Strap	1
15	*c -----	Spacer	6				
16	243189W	Knob	1		*a	Last Used on S/N W6F-7143 and S/N AW6F-1000	
17	336858W	Lever	1		*b	First Used on S/N W6F-7144 and S/N AW6F-1001	
17	276043W	. Bushing	1		*c	Included in 2300995W U-Bolt Kit (3 Required)	
18	18497W	Capscrew	3				

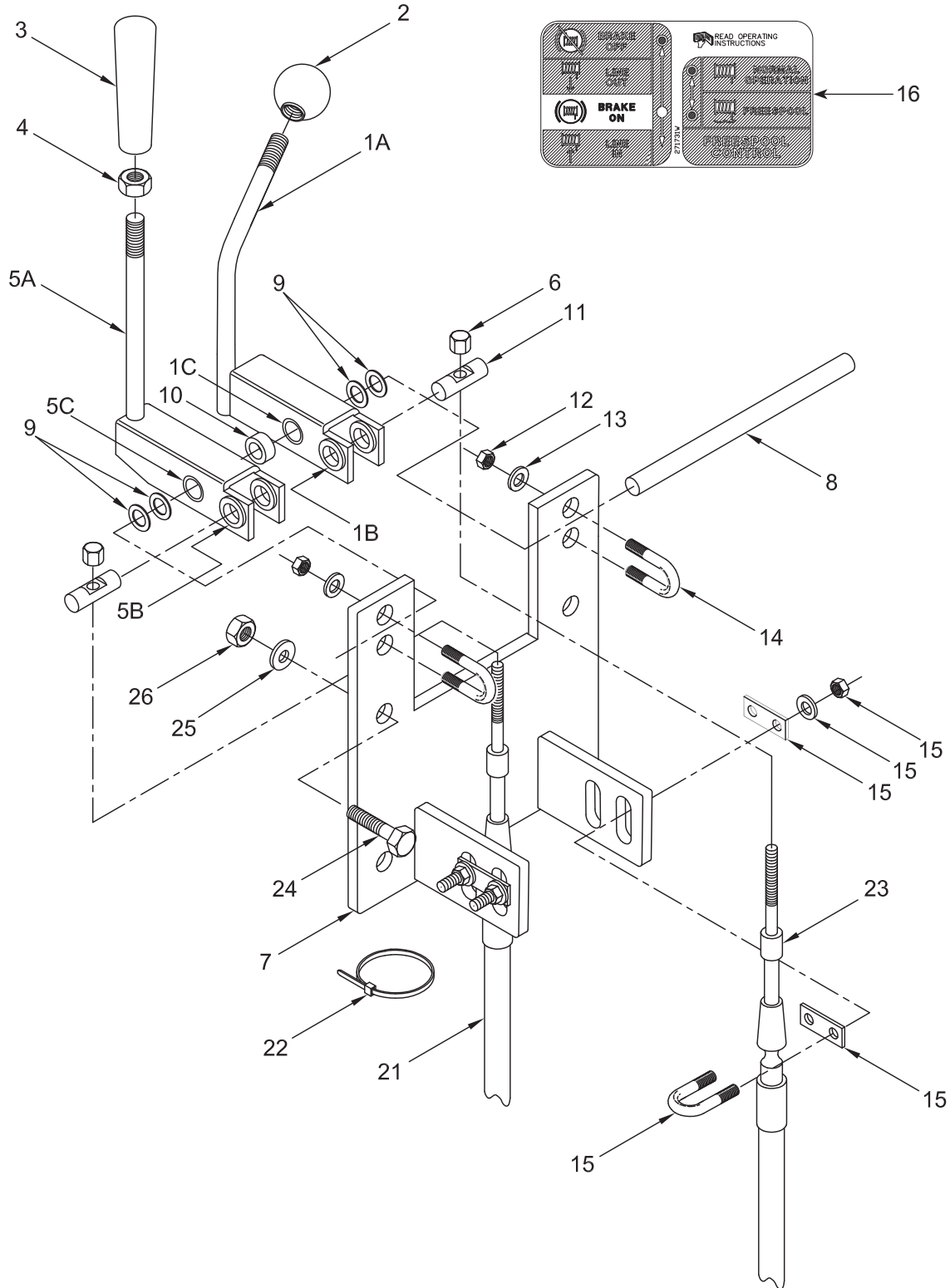
### Control Levers

Power Control With Freespool

John Deere 750 (E41), 755 (E32, E41) and 850 (E43) Without Cab

First Used on S/N W6F-7144 and on S/N AW6F-1001

Page 1 of 2



**Control Levers**

Power Control With Freespool

John Deere 750 (E41), 755 (E32, E41) and 850 (E43) Without Cab

First Used on S/N W6F-7144 and on S/N AW6F-1001

Page 2 of 2

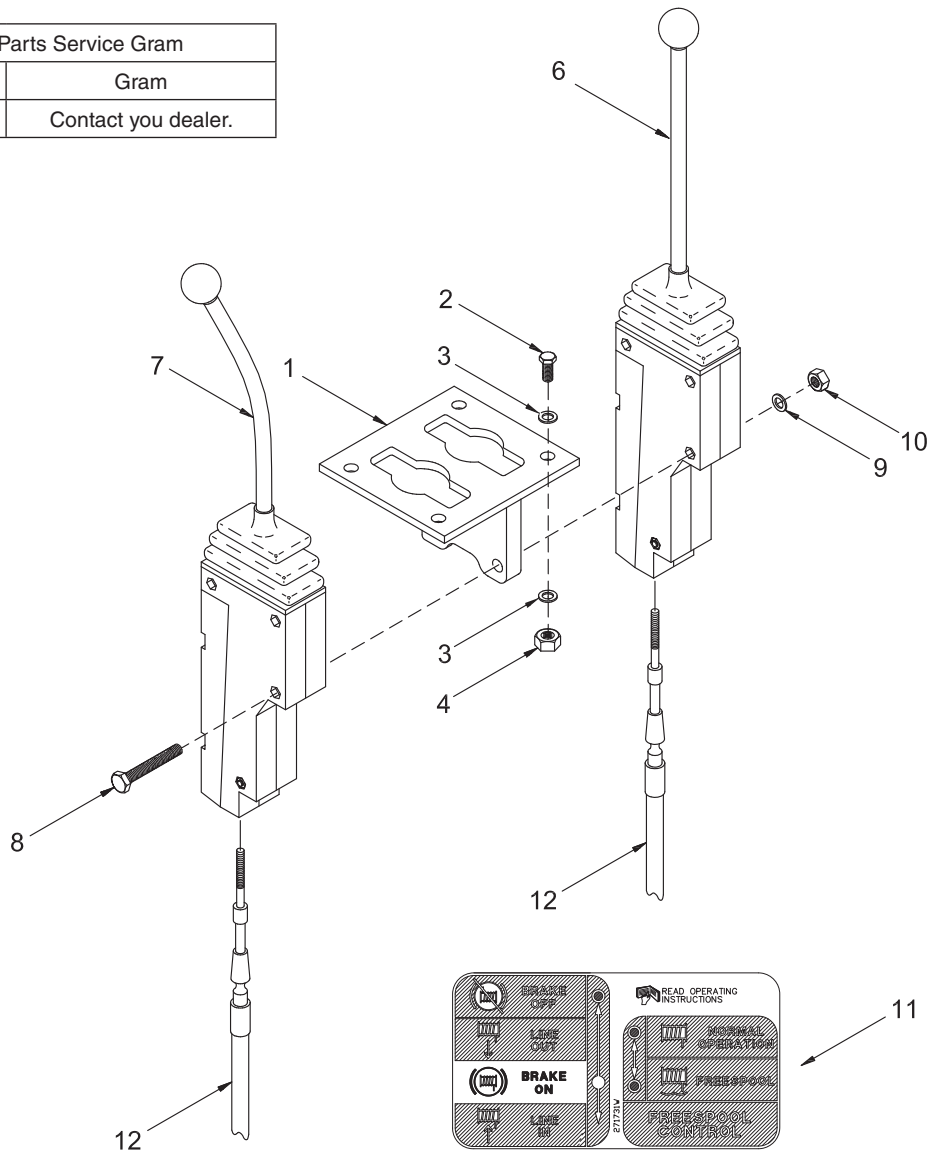
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>264052W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	276032W	. Assembly, Lever	1	11	196128W	. Pin	2
1A	276030W	. . Lever	1	12	15055W	. Nut	4
1B	196144W	. . Bushing, Nylon	2	13	15155W	. Lockwasher	4
1C	276043W	. . Bushing	1	14	196129W	U-Bolt	2
2	243189W	. Knob	1	15	2300995W	Kit, U-Bolt	2
3	2303105W	. Knob	1		-----	. U-Bolt	1
4	15030W	. Nut, Jam	1		-----	. Plate, Cup	1
5	276031W	. Assembly, Lever	1		-----	. Plate	1
5A	276029W	. . Lever	1		-----	. Washer, Star	2
5B	196144W	. . Bushing	2		-----	. Nut	2
5C	276043W	. . Bushing	1	21	303941W	Cable, Control	1
6	2301487W	. Nut, Tall	2	22	114312W	Clamp, Strap	1
7	261567W	. Bracket	1	23	303938W	Cable, Control	1
8	276081W	. Pin	1	24	16805W	Capscrew	8
9	15135W	. Washer	4	25	15156W	Lockwasher	8
10	77418W	. Spacer	1	26	15056W	Nut	8

# Control Levers

Power Control With Freespool

John Deere 750C/750C Series II (E45) and 850C/850C Series II (E46)

Parts Service Gram	
Item	Gram
6, 7	Contact you dealer.

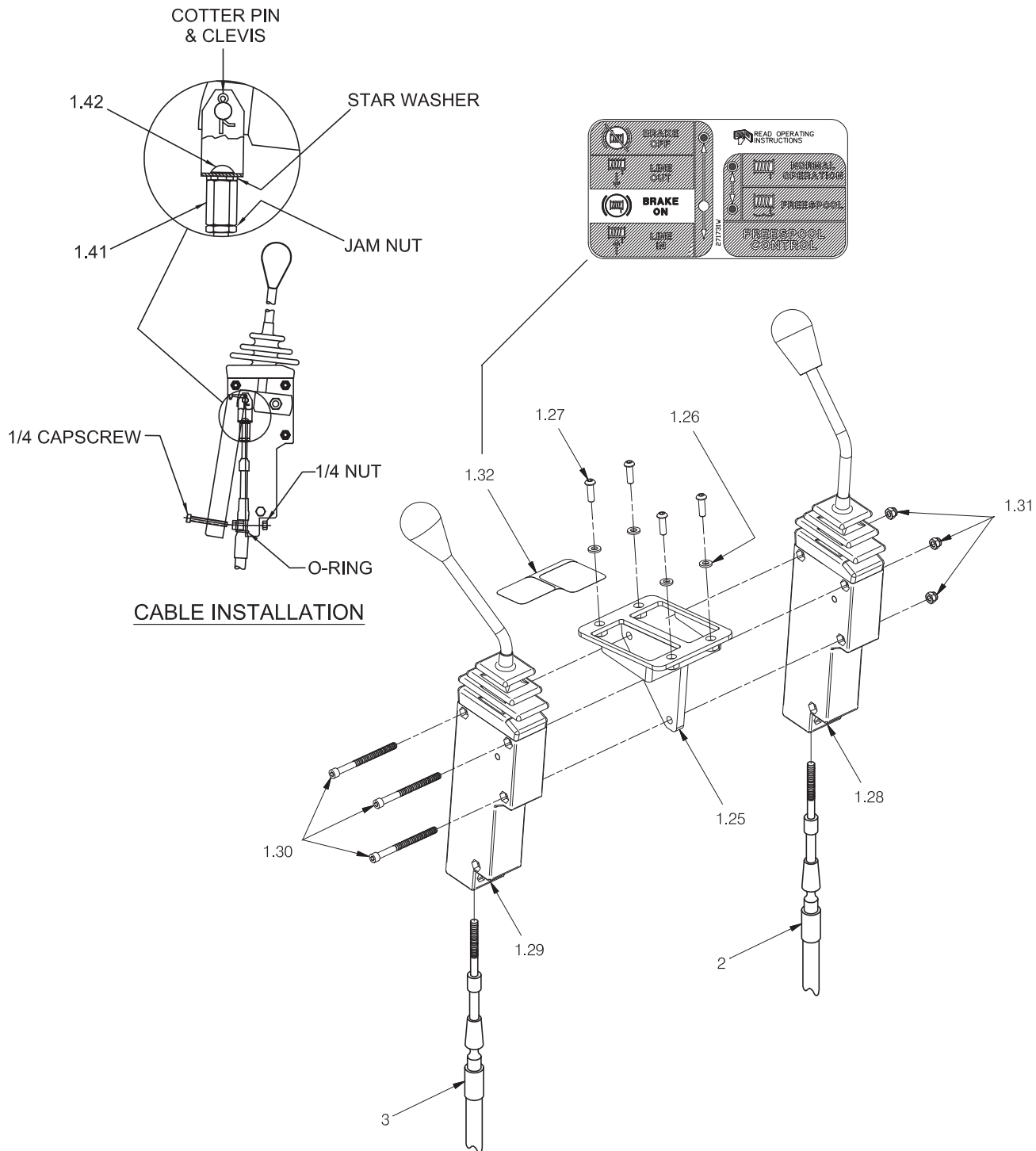


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2301030W	Bracket	1	10	18515W	Washer	3
2	*b 16828W	Capscrew	4	11	271731W	Decal	1
3	15134W	Washer	8	12	303945W	Cable, Control	2
4	221707W	Nut	4	14	*a 2301834W	Bracket, Control Lever	1
5	129563W	Clamp, Strap	2	15	*a 2303040W	Bracket, Filter Relocation	1
6	1300785W	Lever, Control (3-152)	1				
7	2301845W	Lever, Control - FS (3-154)	1		*a	Used with Lunch Tray Installation only (Not Illustrated)	
8	*b 18526W	Capscrew	3		*b	Uses 230064W Loctite Kit	
9	191534W	Nut	3				



### Control Levers

Power Control With Freespool  
John Deere 750J/K (E464) & 850J/K (E462)

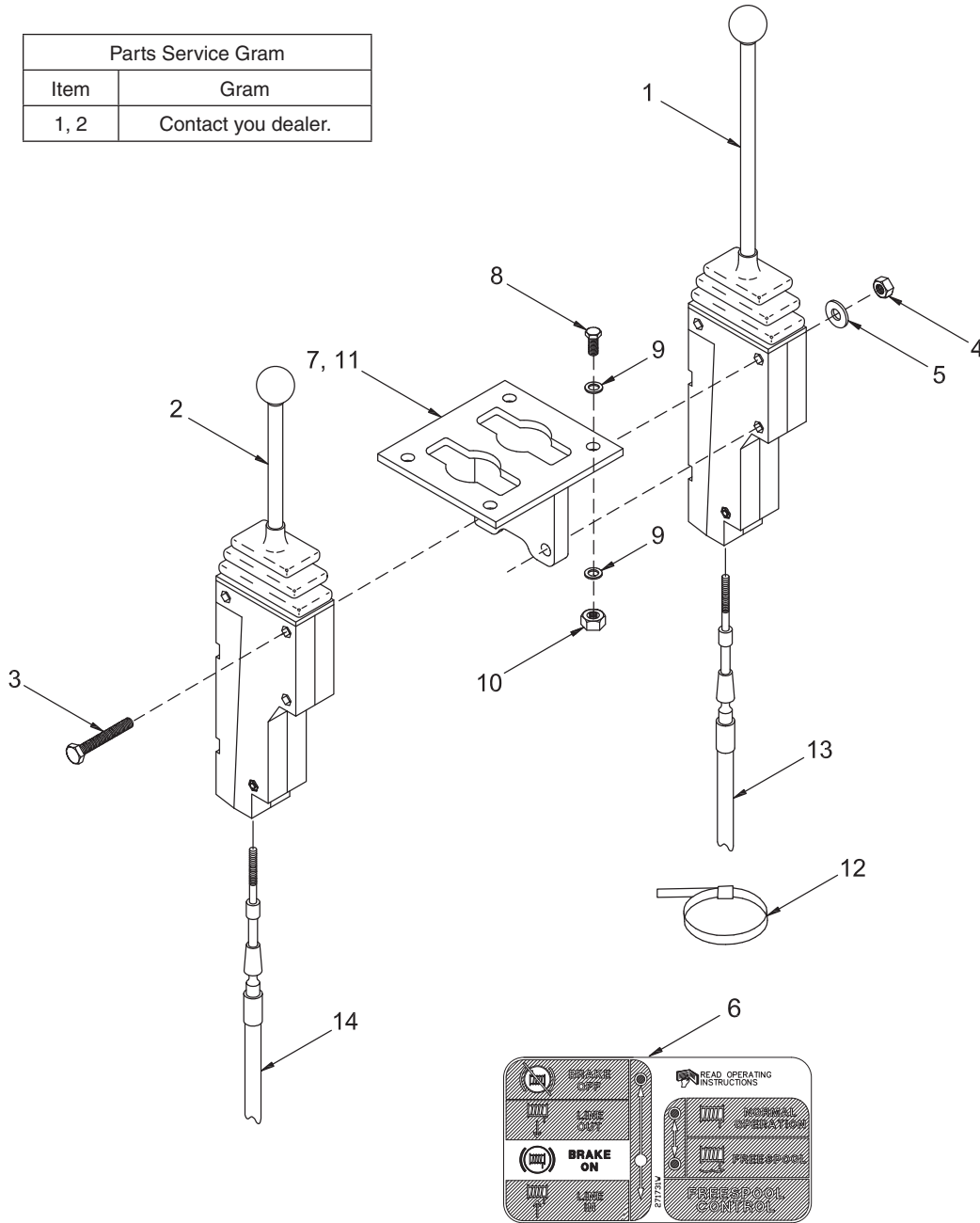


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1.25	2313329	Bracket, Control Lever	1	1.31	302399W	Nut	3
1.26	296417W	Washer	4	1.32	271731W	Decal, Control Lever	1
1.27	296160W	Capscrew	4	1.41	383881W	Nut, Tall	2
1.28	2304820W	Control Lever, Push/Pull Control (3-155)	1	1.42	18717W	Capscrew	2
1.29	2313339	Control Lever, Freespool Control (3-155)	1	2	303945W	Cable, Push/Pull Control	1
1.30	2313340	Capscrew	3	3	303945W	Cable, Freespool Control	1

### Control Levers

Power Control With Freespool  
 Komatsu D61EX-12 (K47) and D65EX-12 (K46)  
 Last Used on S/N AW6F-4423

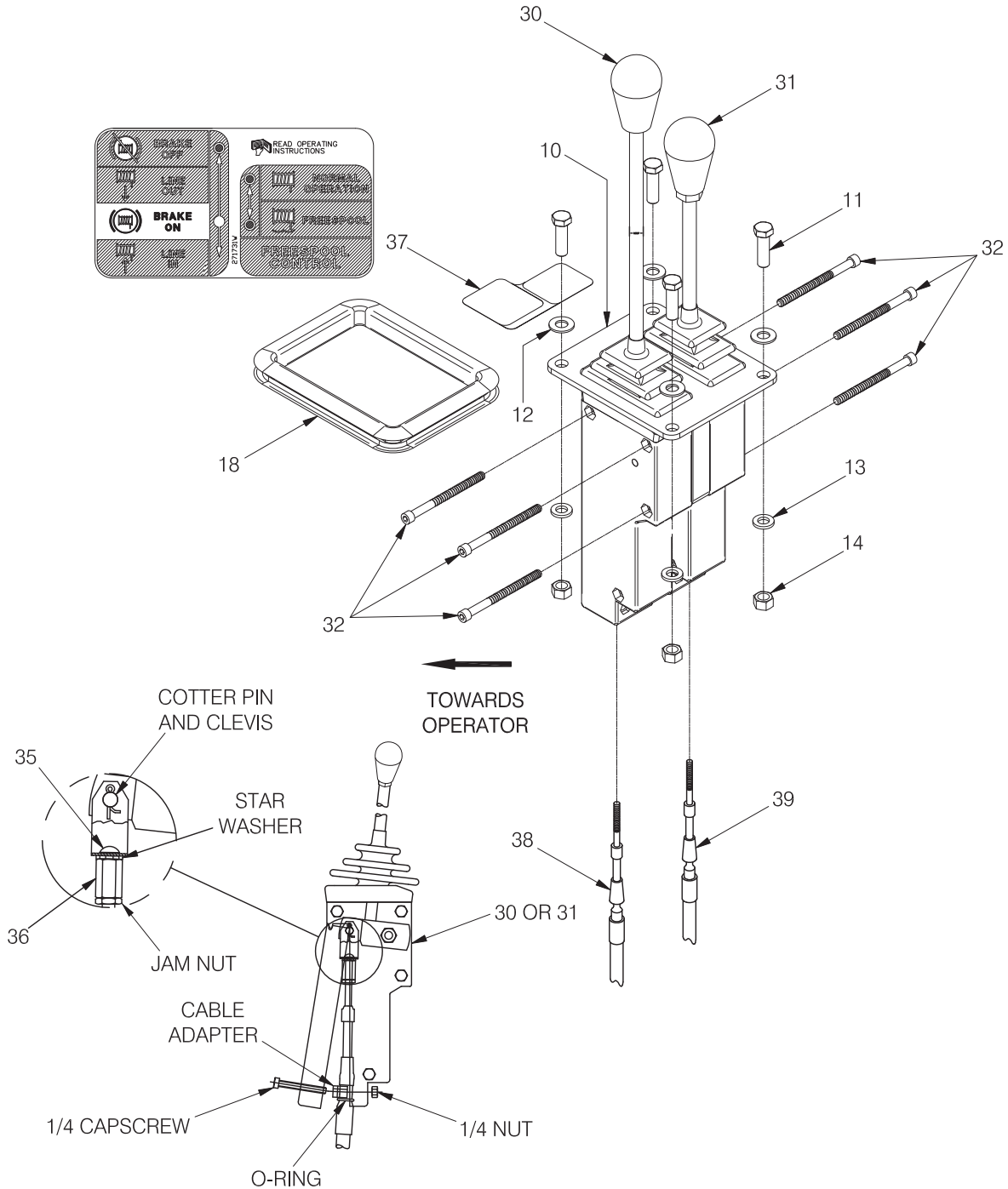
Parts Service Gram	
Item	Gram
1, 2	Contact you dealer.



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	1300785W	Lever, Control (3-152)	1	9	15134W	Washer	8
2	383880W	Lever, Control - FS (3-153)	1	10	221707W	Nut	4
3	*a 2301054W	Capscrew	3	11	2301055W	Trim, Protective	2 ft.
4	221703W	Nut	3	12	114312W	Clamp, Strap	1
5	15127W	Washer	3	13	303944W	Cable, Freespool Control	1
6	271731W	Decal	1	14	303943W	Cable, Push/Pull Control	1
7	2301030W	Bracket	1				
8	16828W	Capscrew	4				
				*a		Uses 230064W Loctite Kit	

### Control Levers

Power Control With Freespool  
 Komatsu D61EX-12 (K47) and D65EX-12 (K46)  
 First Used on S/N AW6F-4424



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
10	2304304W	Bracket, Control Lever	1	32	2304380W	Capscrew, Sealing	6
11	16828W	Capscrew	4	35	*a 18717W	Capscrew, Button Head	2
12	15134W	Washer	4	36	383881W	Nut, Tall	2
13	15156W	Washer, Lock	4	37	271731W	Decal, Control Lever with Freespool	1
14	221707W	Nut	4	38	303944W	Cable, Push/Pull Control	1
18	2301055W	Trim, Protective	1.5 FT	39	303943W	Cable, Freespool Control	1
30	2303984W	Lever, Control (3-155)	1				
31	2303982W	Lever, Control (3-155)	1	*a	Uses 230064W Loctite Kit		

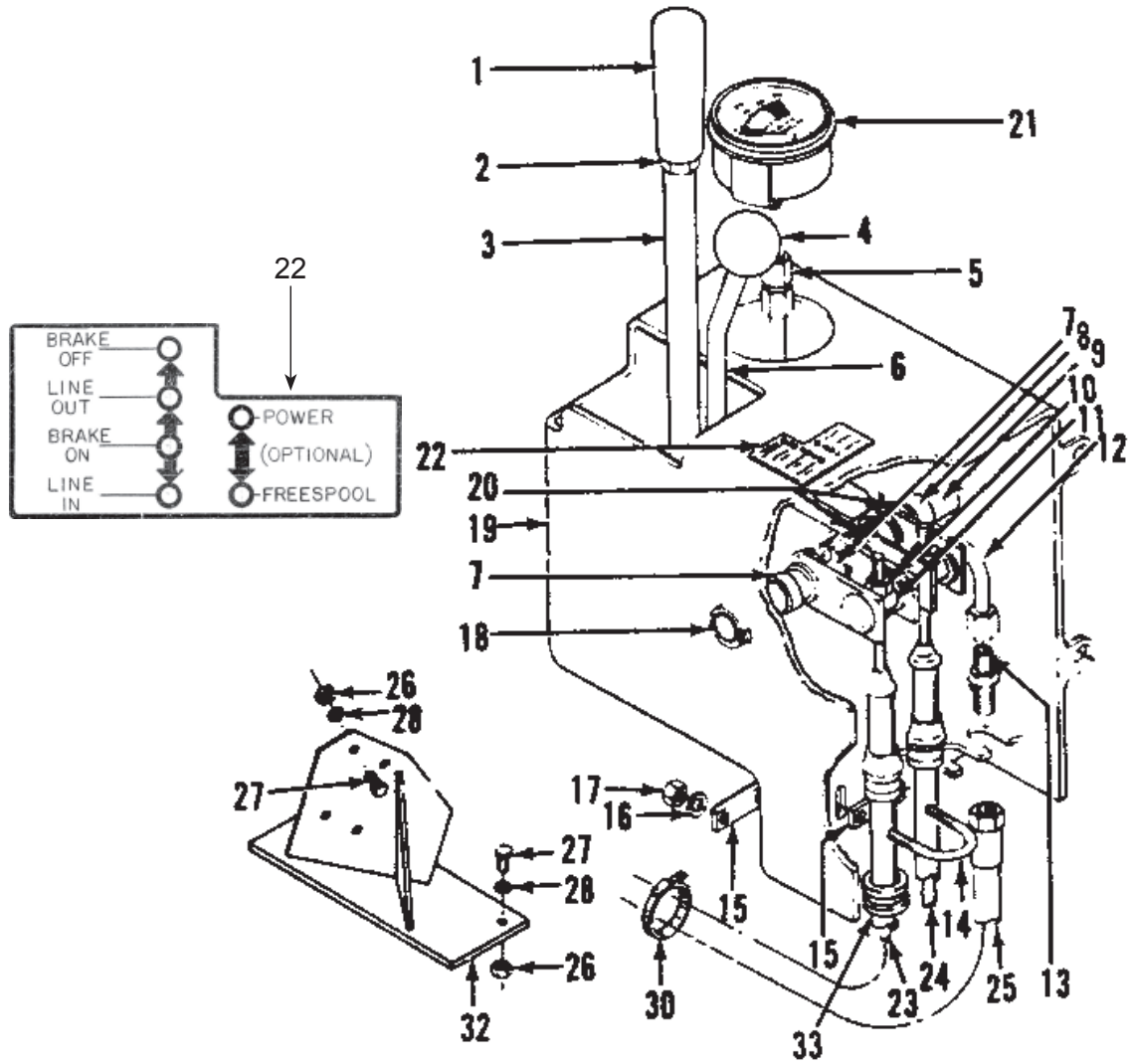
### Control Levers

Power Control With Freespool

Komatsu D65-6 (K43)

Last Used During 1993

Page 1 of 2



Parts Service Gram	
Item	Gram
3, 7, 8, 9, 10, 19, 21	Contact you dealer.

**Control Levers**

Power Control With Freespool

Komatsu D65-6 (K43)

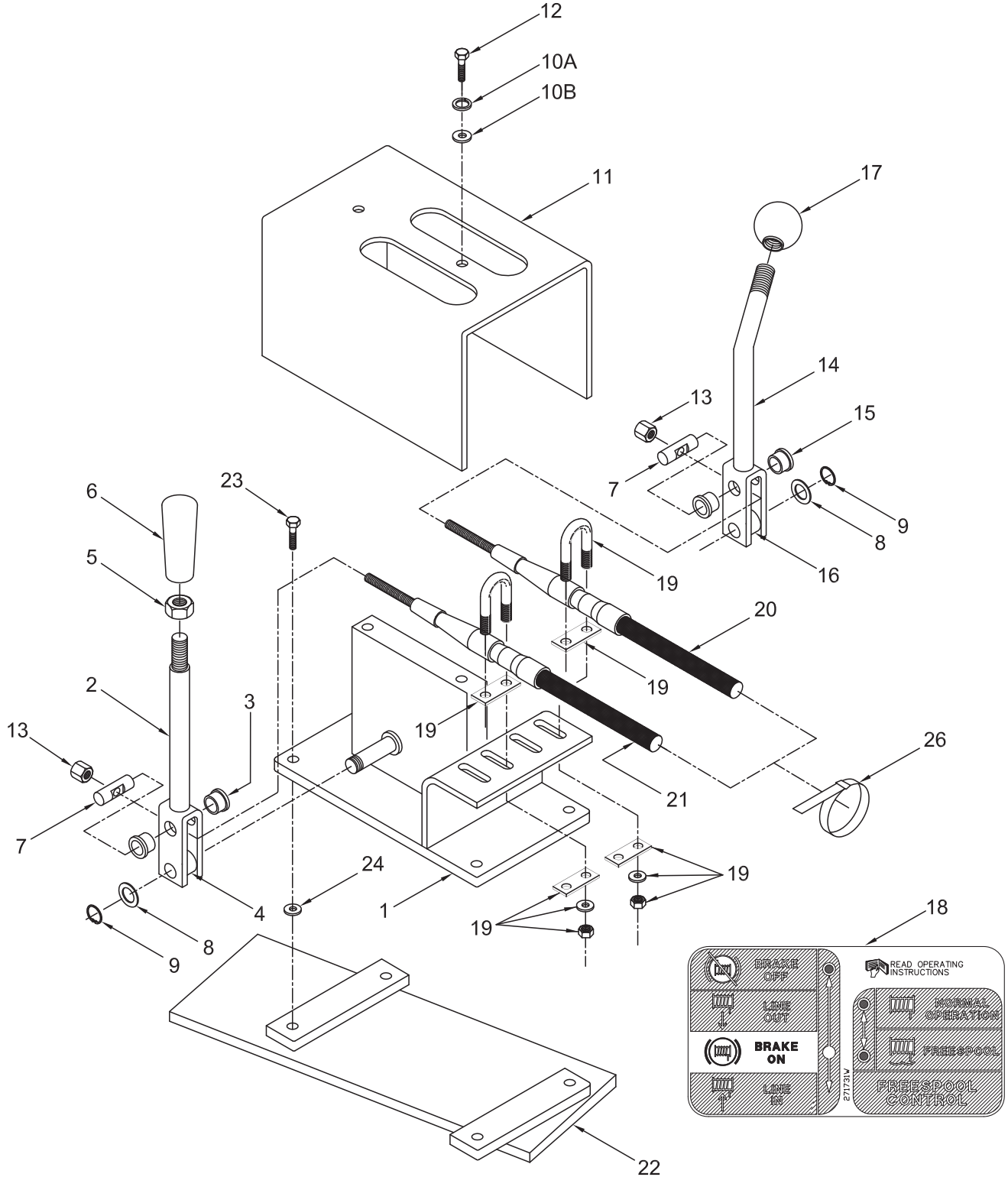
Last Used During 1993

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>227468W</b>	<b>Assembly, Control Lever - FS</b>	<b>1</b>				
1	2303105W	. Knob	1	15	*a	. Spacer	4
2	15030W	. Nut, Jam	1	16	*a	. Lockwasher	4
3	276031W	. Lever	1	17	*a	. Nut	4
4	243189W	. Knob	1	18	15225W	. Pin, Cotter	2
5	14712W	. Fitting	1	19	196114W	. Housing	1
6	276032W	. Lever	1	20	391016W	. Washer	2
6	276043W	. Bushing	1	21	192407W	. Gauge, Oil Pressure	1
7	196132W	. Spacer	2	22	271731W	Decal	1
7	15135W	. Washer	3	23	347020W	Cable, Push/Pull Control	1
8	271746W	. Spacer	1	24	303941W	Cable, Freespool Control	1
9	276041W	. Pin	1	25	205006W	Assembly, Hose	1
10	18425W	. Lockwasher	2	26	15056W	Nut	4
10	15106W	. Locknut	2	27	16805W	Capscrew	4
11	196128W	. Pin	2	28	15156W	Lockwasher	4
12	196134W	. Assembly, Tube	1	30	114312W	Clamp, Strap	1
13	16445W	. Fitting	1	32	222901W	Bracket	1
13	14758W	. Adapter	1				
14	*a	. U-Bolt	2		*a	Included in 2300995W U-bolt Kit (2 Required)	

# Control Levers

Power Control With Freespool  
 Komatsu D65-8 (K45) and D68-1 (K45)  
 Page 1 of 2



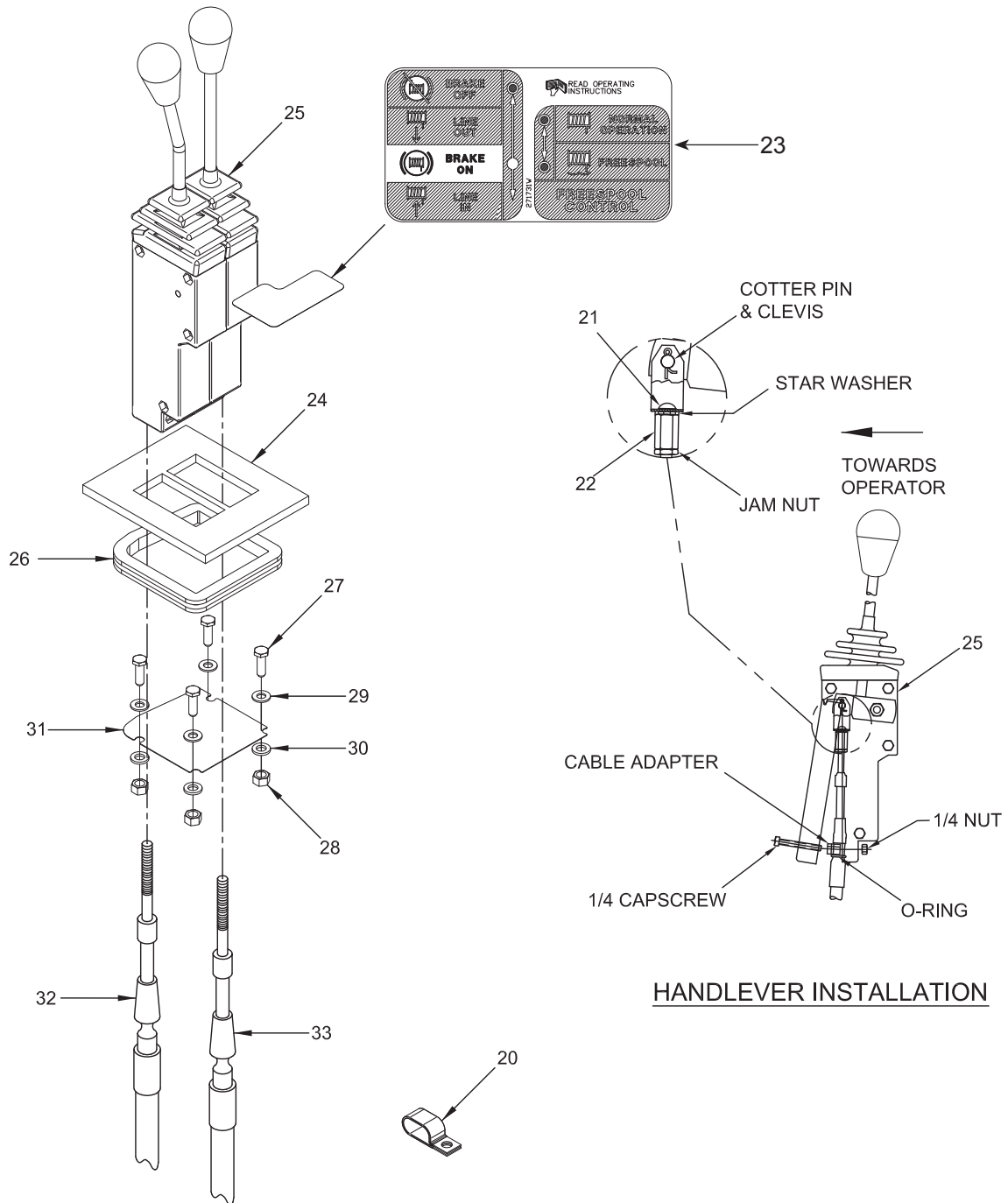
**Control Levers**

Power Control With Freespool  
 Komatsu D65-8 (K45) and D68-1 (K45)  
 Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>332821W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	332823W	. Bracket	1	16	276043W	. . Bushing, Brass	1
2	276036W	. Assembly, Lever	1	17	243189W	. Knob	1
3	196144W	. . Bushing, Nylon	2	18	271731W	Decal	1
4	276043W	. . Bushing, Brass	1	19	2300995W	Kit, U-Bolt	2
5	15030W	. Nut	1		-----	. U-Bolt	1
6	2303105W	. Knob	1		-----	. Plate, Cup	1
7	196128W	. Pin	2		-----	. Plate	1
8	15135W	. Washer	2		-----	. Washer, Star	2
9	190930W	. Ring, Snap	2		-----	. Nut	2
10A	15155W	. Lockwasher	2	20	303942W	Cable, Freespool Control	1
10B	18515W	. Washer	2	21	347020W	Cable, Push/Pull Control	1
11	332822W	. Cover	1	22	346523W	Bracket	1
12	16836W	. Capscrew	2	23	16597W	Capscrew	4
13	2301487W	. Nut, Tall	2	24	15156W	Lockwasher	4
14	276037W	. Lever	1	26	114312W	Clamp Strap	1
15	196144W	. . Bushing, Nylon	2				

### Control Levers

Power Control With Freespool  
New Holland DC-180 (A49)



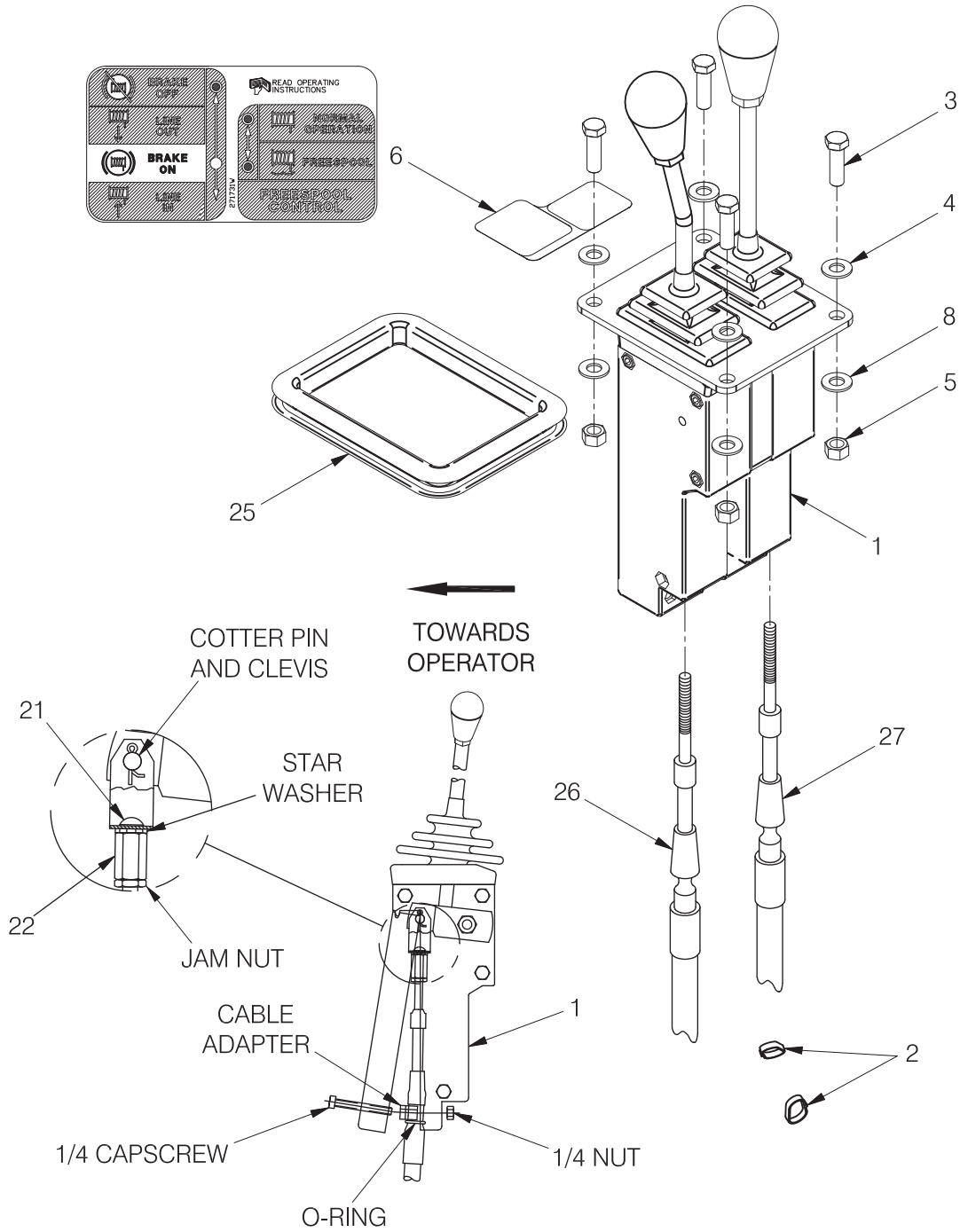
HANDLEVER INSTALLATION

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
20	110322W	Clamp	1	28	15055W	Nut	4
21	*a 18717W	Cap screw	2	29	18515W	Washer	8
22	383881W	Nut, Tall	2	30	15155W	Washer	4
23	271731W	Decal	1	31	2304848W	Template, Plastic Console Alteration	1
24	2304570W	Gasket, with FREESPOOL	1	32	303945W	Cable, Push/Pull Control	1
25	2304807W	Assembly, Control Lever (3-160)	1	33	303945W	Cable, Freespool Control	1
26	225871	Trim, Protective	1.75 ft.				
27	18497W	Cap screw	4				
				*a	230064W	Loctite Kit	



### Control Levers

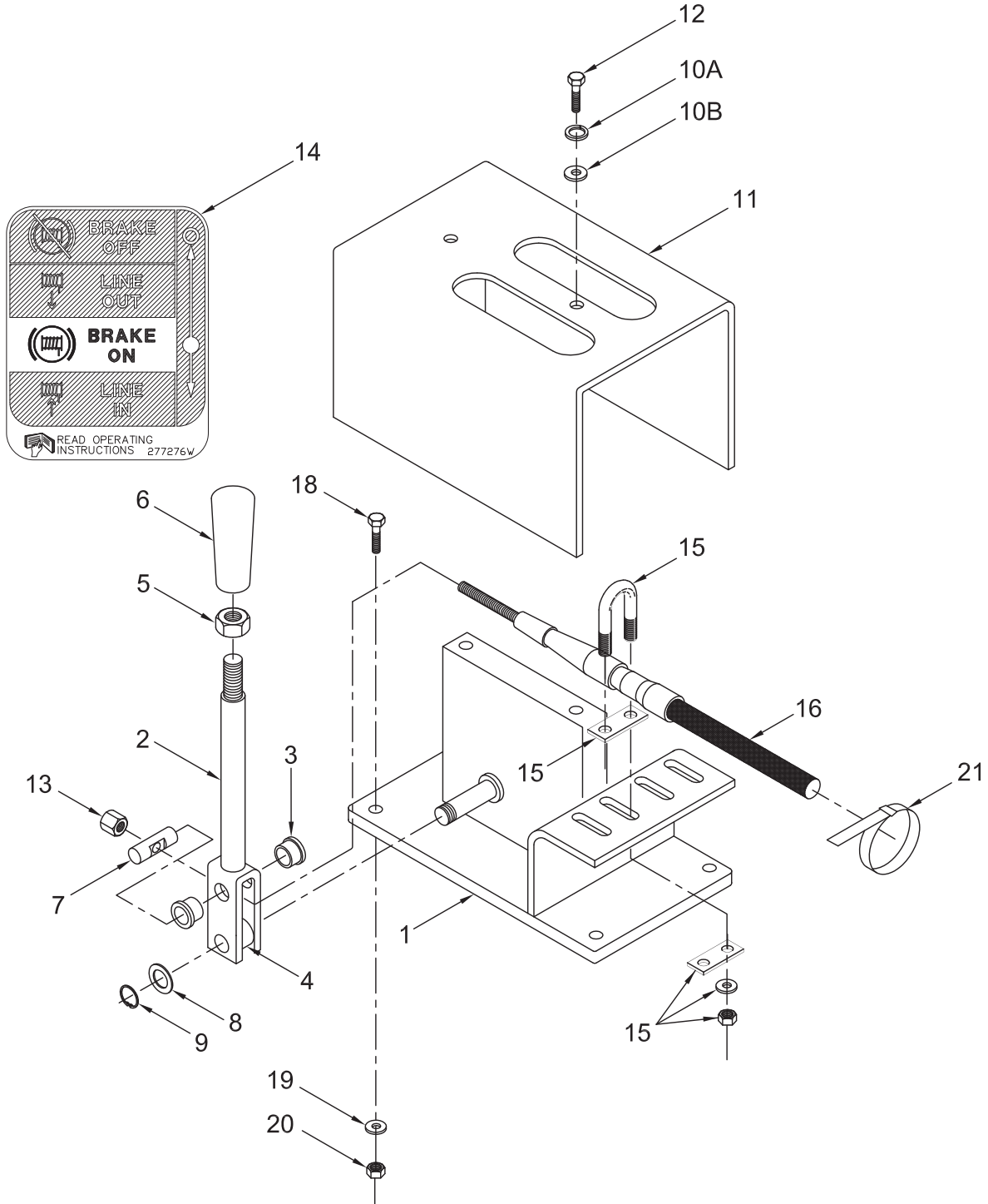
Power Control With Freespool  
Shantui SD16 (U46)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2313536	Assembly, Control Lever (3-162)	1	21	*a 18717W	Capscrew	2
2	129563W	Clamp, Strap	2	22	383881W	Nut, Tall	2
3	16828W	Capscrew	4	25	2301055W	Trim, Protective	1.5 ft.
4	15134W	Washer	4	26	303943W	Cable, Push/Pull Control	1
5	221707W	Nut	4	27	303944W	Cable, Freespool Control	1
6	271731W	Decal	1				
8	15156W	Washer	4		*a	Uses 318702W Thread Lock	

### Control Levers

Power Control Without Freespool  
Case 1550 (R41)  
Page 1 of 2



**Control Levers**

Power Control Without Freespool

Case 1550 (R41)

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>332820W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	332823W	. Bracket	1	13	2301487W	. Nut, Tall	1
2	276036W	. Assembly, Lever	1	14	277276W	Decal	1
3	196144W	. . Bushing, Nylon	2	15	2300995W	Kit, U-Bolt	1
4	276043W	. . Bushing, Brass	1		-----	. U-Bolt	1
5	15030W	. Nut	1		-----	. Plate, Cup	1
6	2303105W	. Knob	1		-----	. Plate	1
7	196128W	. Pin	1		-----	. Washer	2
8	15135W	. Washer	1		-----	. Nut	2
9	190930W	. Ring, Snap	1	16	303944W	Cable, Control	1
10A	15155W	. Lockwasher	2	18	16805W	Capscrew	4
10B	18515W	. Washer	2	19	15156W	Lockwasher	4
11	332822W	. Cover	1	20	156133W	Nut	4
12	16836W	. Capscrew	2	21	129563W	Clamp, Strap	3

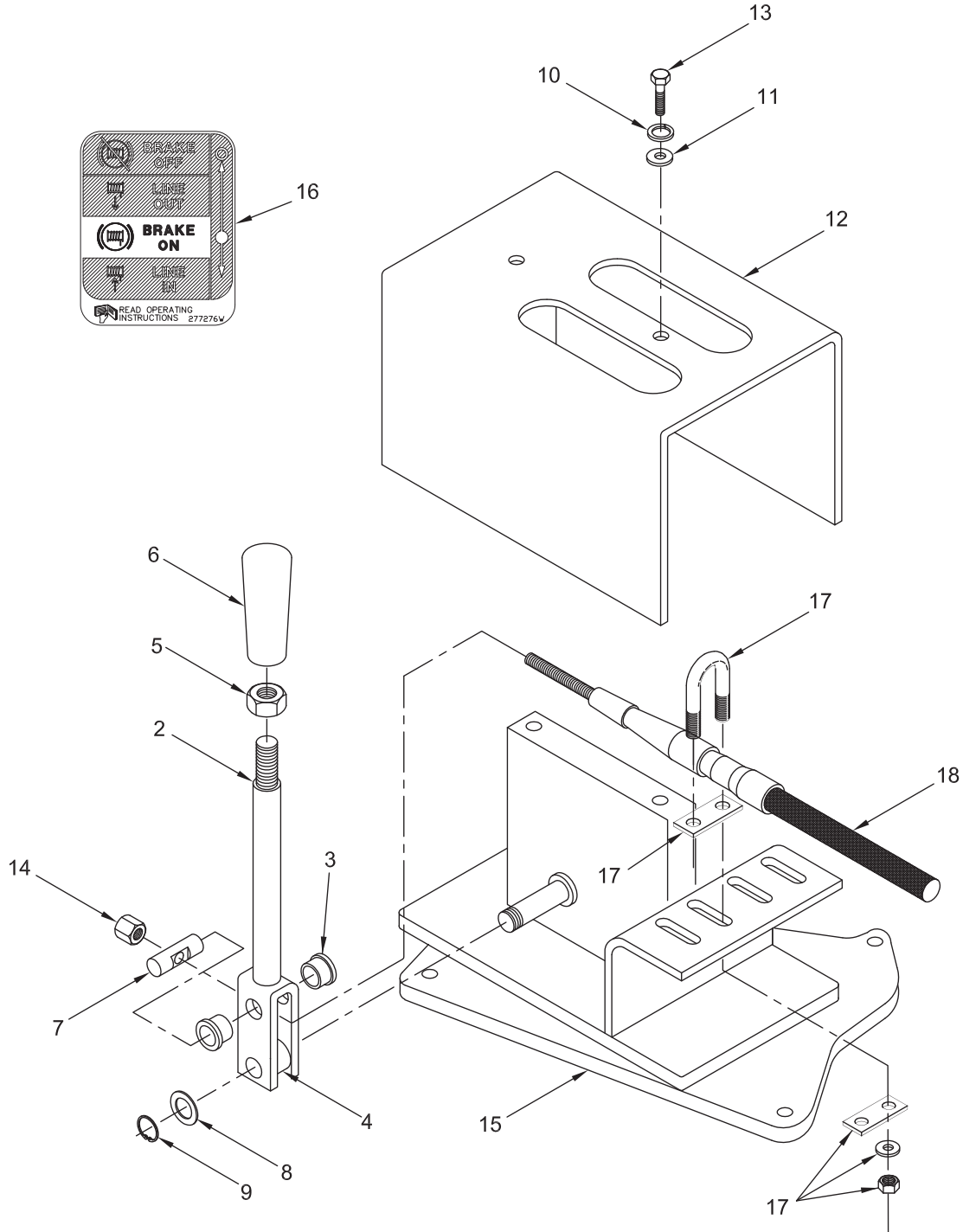
### Control Levers

Power Control Without Freespool

Caterpillar 527 (C40)

Last Used on S/N AW6F-4541

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**Control Levers**

Power Control Without Freespool

Caterpillar 527 (C40)

Last Used on S/N AW6F-4541

Page 2 of 2

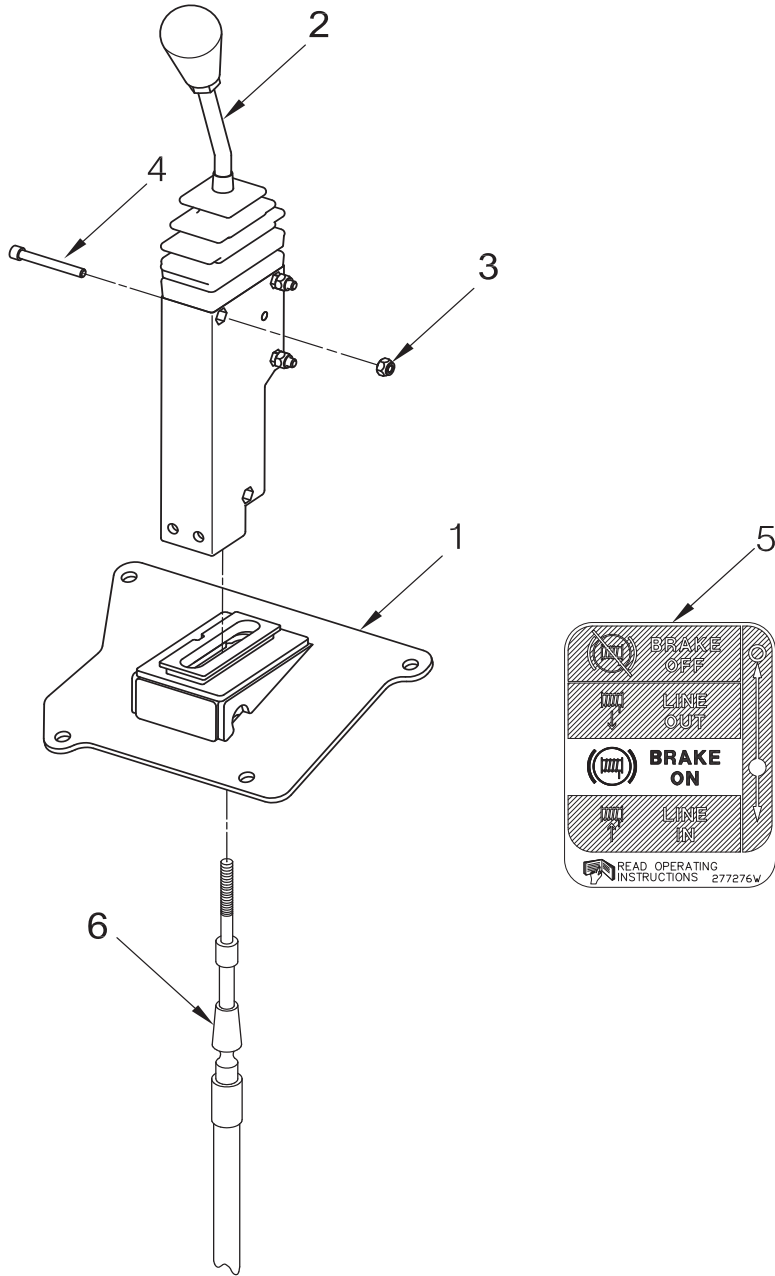
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2302315W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
2	276036W	. Assembly, Lever	1	13	16836W	. Capscrew	2
3	196144W	. Bushing, Nylon	2	14	2301487W	. Nut, Tall	1
4	276043W	. Bushing, Brass	1	15	381193W	. Bracket	1
5	15030W	. Nut	1	16	277276W	Decal	1
6	2303105W	. Knob	1	17	2300995W	Kit, U-Bolt	1
7	196128W	. Pin	1		-----	. U-Bolt	1
8	15135W	. Lockwasher	2		-----	. Plate, Cup	1
8	18515W	. Washer	2		-----	. Plate	1
9	190930W	. Ring, Snap	1		-----	. Washer, Star	2
10	15155W	. Washer	2		-----	. Nut	2
11	18515W	. Washer	2	18	303944W	Cable, Push/Pull Control	1
12	332822W	. Cover	1				

### Control Levers

Power Control Without Freespool

Caterpillar 527 (C40)

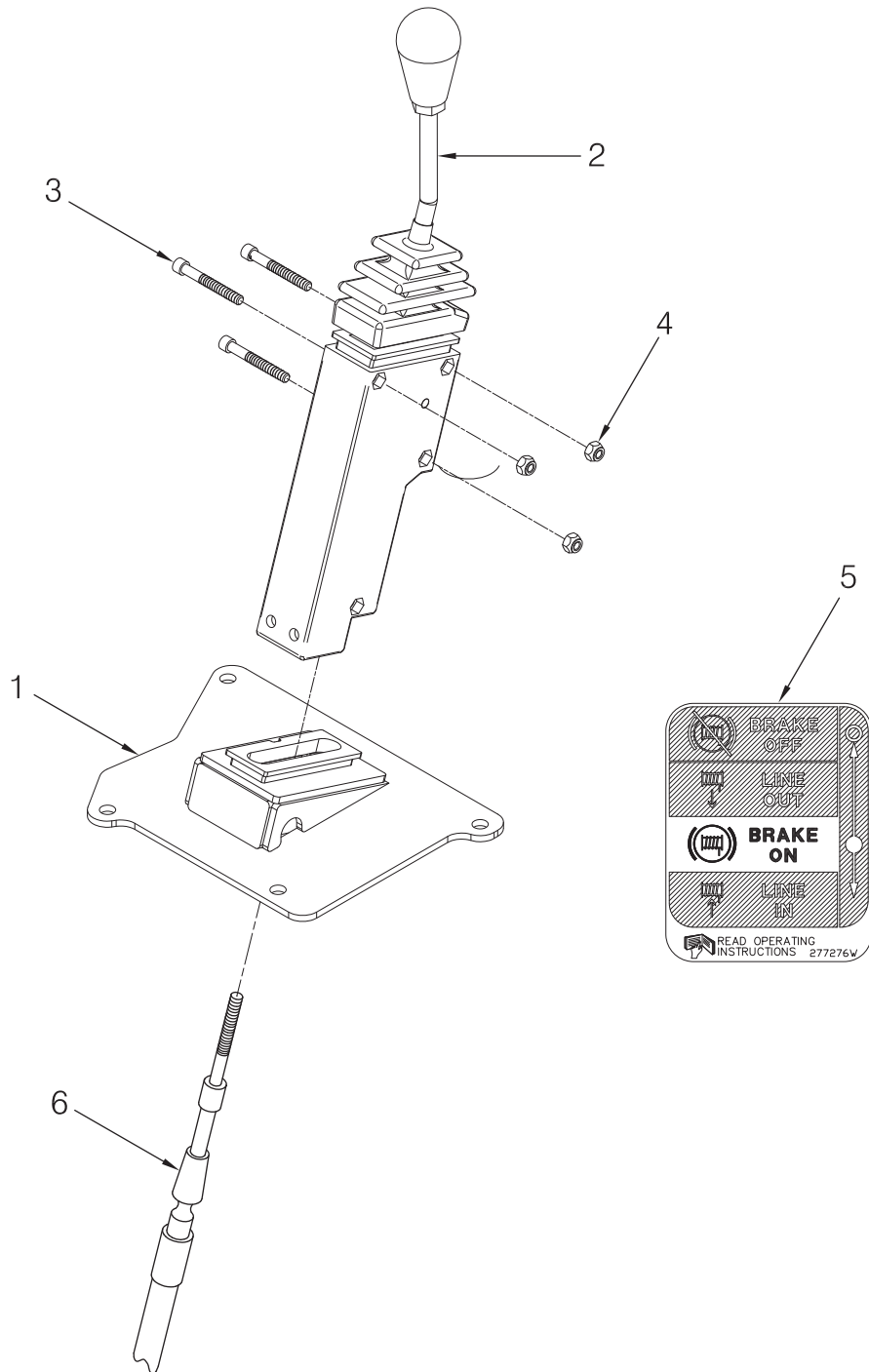
Used on S/N AW6F-4542 through S/N AW6F-4578



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2307374W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2307373W	. Bracket, Control Lever	1	4	15113W	. Nut	3
2	2307354W	. Lever, Control (3-155)	1	5	277276W	Decal	1
3	18127W	. Capscrew	3	6	303943W	Cable, Push/Pull Control	1

### Control Levers

Power Control Without Freespool  
 Caterpillar 527 (C40)  
 First Used on S/N AW6F-4579



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2307383W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	*a 2307547W	. Bracket, Control Lever Mounting	1	5	277276W	. Decal	1
1	*b 2310306	. Bracket, Control Lever Mounting	1	6	303942W	Cable, Push/Pull Control	1
2	2303982W	. Lever, Control (3-155)	1				
3	18127W	. Capscrew	3				
4	15113W	. Nut	3				
					*a	Last Used on Tractor S/N PTR00446	
					*b	First Used on Tractor S/N PTR00447	

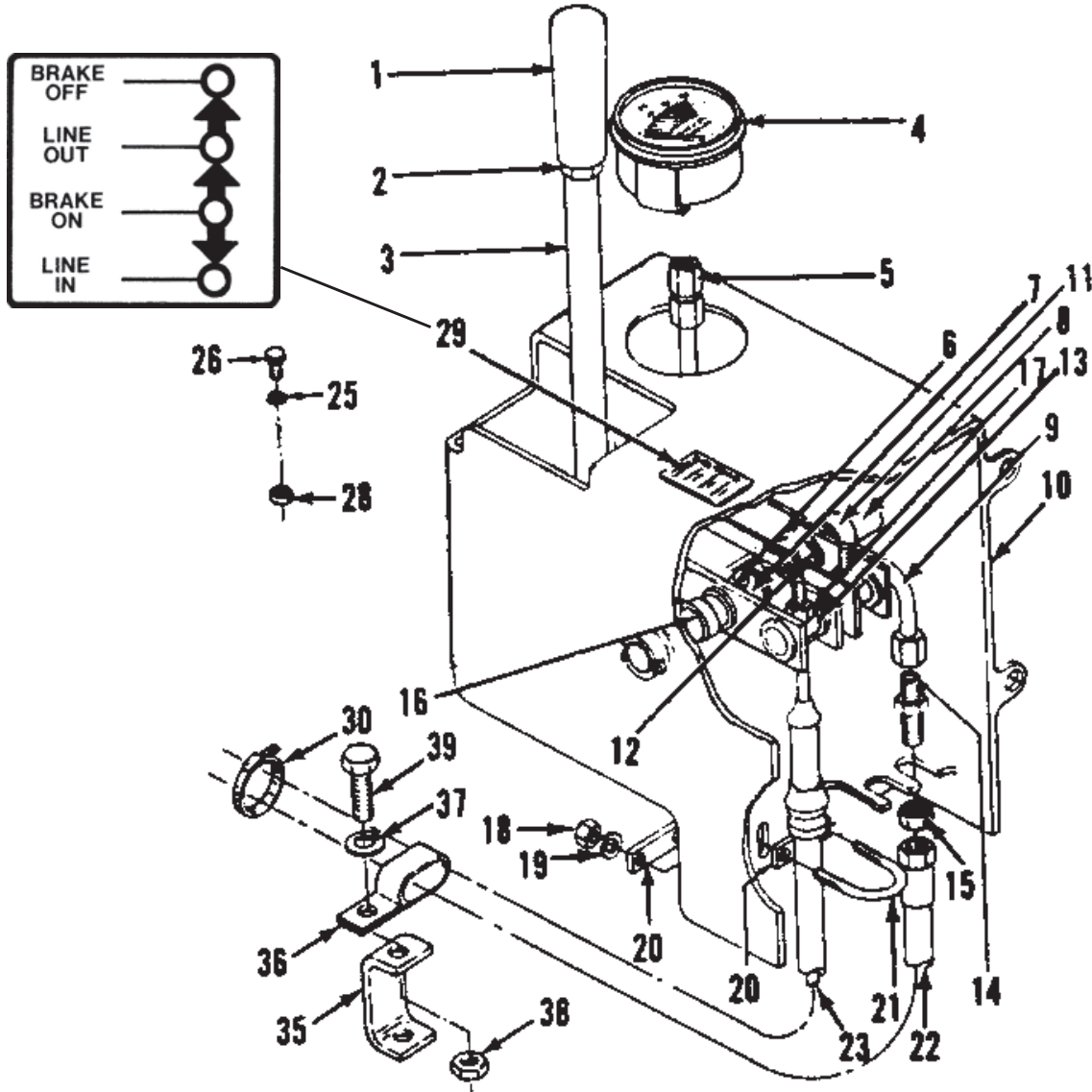
### Control Levers

Power Control Without Freespool

Caterpillar 977-11K (C45)

Last Used During 1993

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**Control Levers**

Power Control Without Freespool

Caterpillar 977-11K (C45)

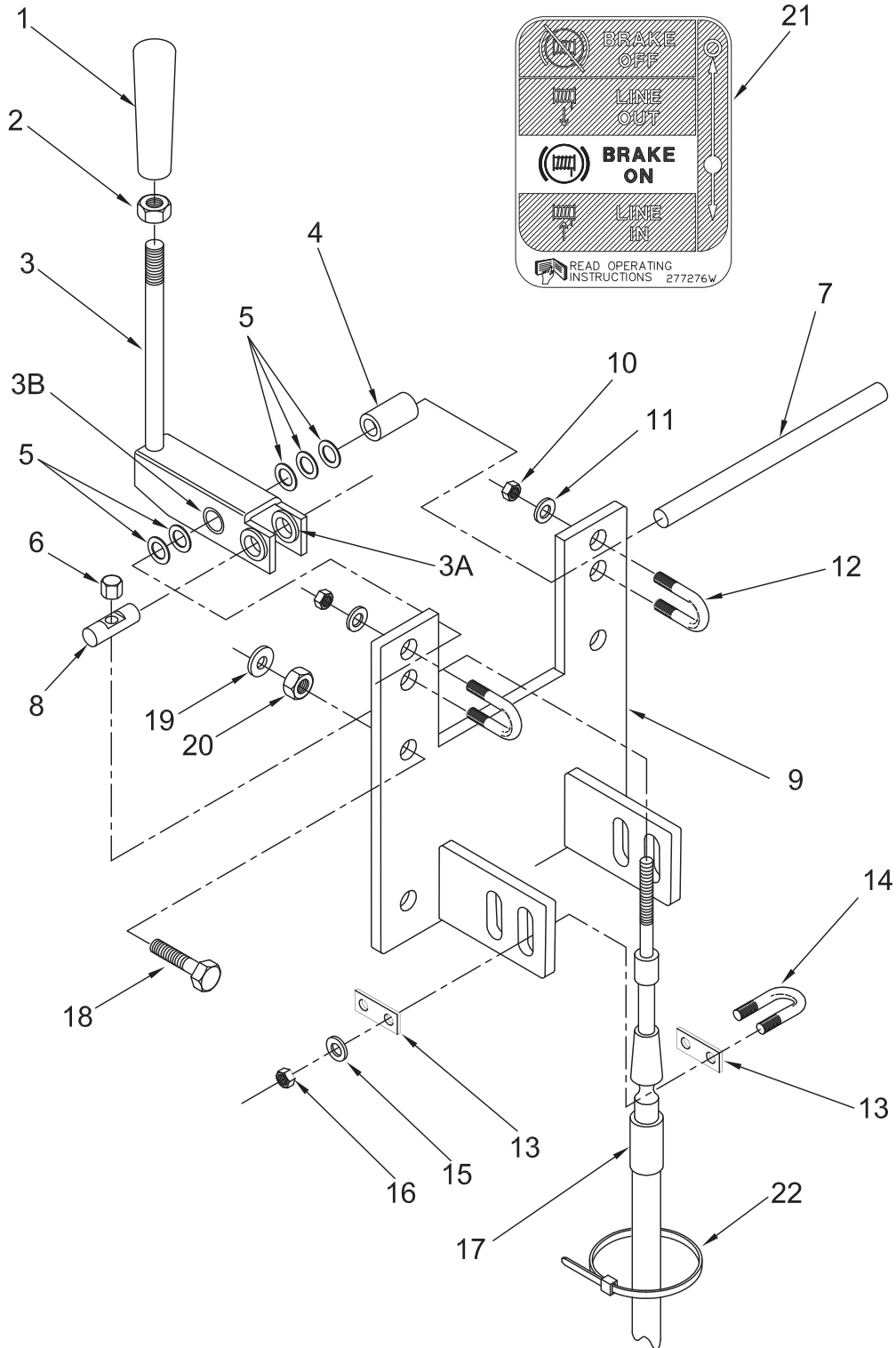
Last Used During 1993

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty		
1	2303105W	Knob	1	18	*d	-----	Nut	2	
2	15030W	Nut, Jam	1	19	*d	-----	Lockwasher	2	
3	196465W	Lever	1	20	*d	-----	Spacer	2	
3	*b	276031W	Lever	1	21	*d	-----	U-Bolt	1
3	*b	276043W	. Bushing	1	22	165505W	Assembly, Hose	1	
4	192407W	Gauge, Oil Pressure	1	23	203232W	Cable, Push/Pull Control	1		
5	14712W	Fitting	1	25	15156W	Lockwasher	4		
6	15225W	Pin, Cotter	3	26	16805W	Capscrew	4		
7	*a	196132W	Spacer	2	28	15056W	Nut	4	
8	196468W	Pin	1	29	277276W	Decal	1		
8	*b	276041W	Pin	1	30	*c	114312W	Clamp, Strap	1
9	196134W	Assembly, Tube	1	35	156871W	Bracket	1		
10	196114W	Housing	1	36	110322W	Clamp, Insulated	1		
11	*b	271748W	Spacer	1	37	15156W	Lockwasher	1	
12	*b	391016W	Washer	1	38	15056W	Nut	1	
13	196128W	Pin	1	39	18535W	Capscrew	1		
14	16445W	Fitting	1						
15	14758W	. Adapter	1		*a	Last Used on S/N W6F-2328			
16	*b	15135W	Washer	3		*b	First Used on S/N W6F-2329 and S/N AW6F-1001		
17	15106W	Locknut	1			*c	First Used on S/N W6F-5461 and S/N AW6F-1001		
17	18425W	Lockwasher	1			*d	Included in 2300995W U-bolt Kit (1 Required)		

### Control Levers

Power Control Without Freespool  
 Caterpillar 977L-14X (C46)  
 Page 1 of 2



**Control Levers**

Power Control Without Freespool

Caterpillar 977L-14X (C46)

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>264051W</b>	<b>Assembly, Control Lever</b>	<b>1</b>	12	196129W	. U-Bolt	2
1	2303105W	. Knob	1	13	*a -----	Spacer	2
2	15030W	. Nut, Jam	1	14	*a -----	U-Bolt	1
3	276031W	. Lever	1	15	*a -----	Lockwasher	2
3	276043W	. Bushing	1	16	*a -----	Nut	2
4	271747W	. Spacer	1	17	303944W	Cable, Push/Pull Control	1
5	15135W	. Washer	5	18	16805W	Capcrew	4
6	2301487W	. Nut	1	19	15156W	Lockwasher	4
7	276081W	. Pin	1	20	15056W	Nut	4
8	196128W	. Pin	1	21	277276W	Decal	1
9	261567W	. Bracket	1	22	114312W	Clamp, Strap	1
10	15055W	. Nut	4				
11	15155W	. Lockwasher	4		*a	Included in 2300995W U-Bolt Kit (1 Required)	

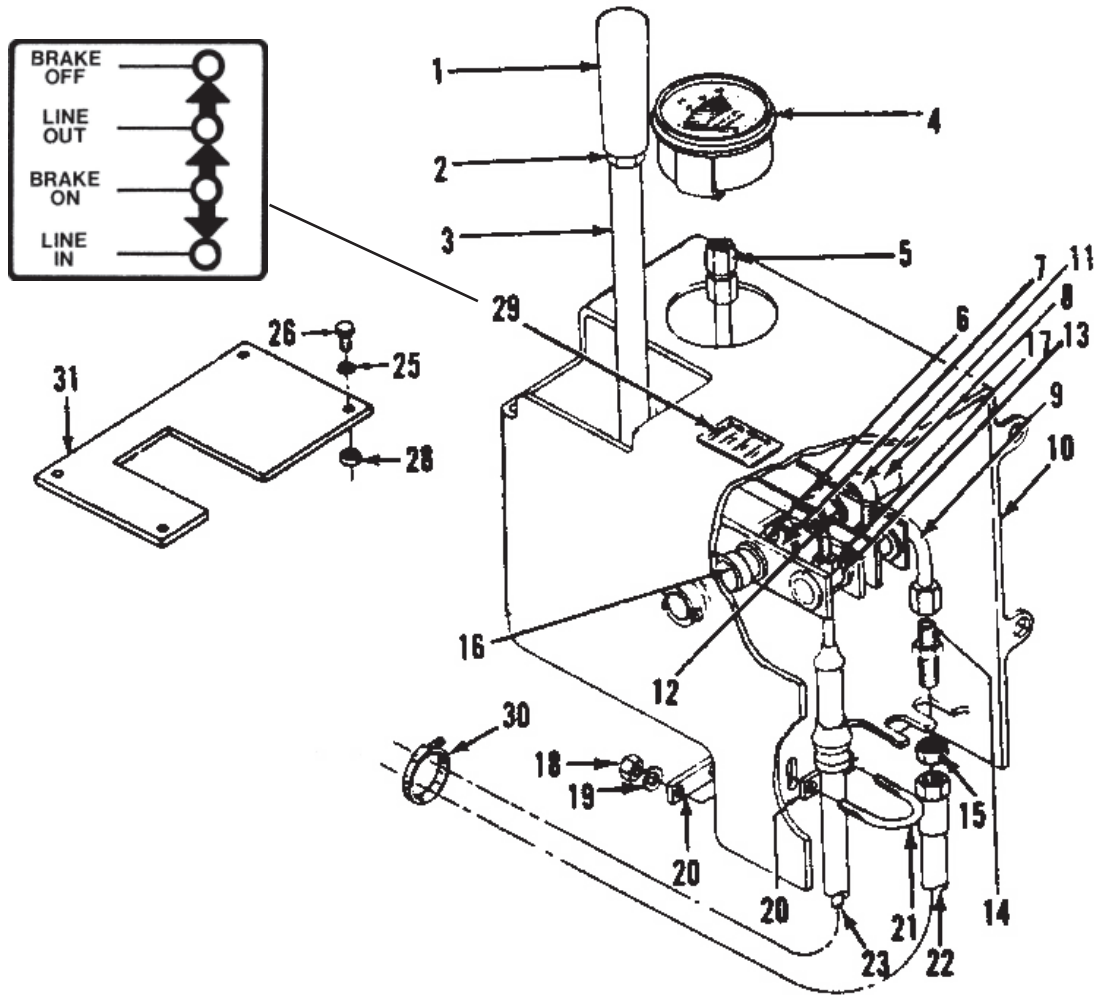
### Control Levers

Power Control Without Freespool

Caterpillar D5 (C41, C42), D6 (C43, C44, C50, C71, C73, C82, C480, C481)

Last Used During 1993

Page 1 of 2



**Control Levers**

Power Control Without Freespool

Caterpillar D5 (C41, C42), D6 (C43, C44, C50, C71, C73, C82, C480, C481)

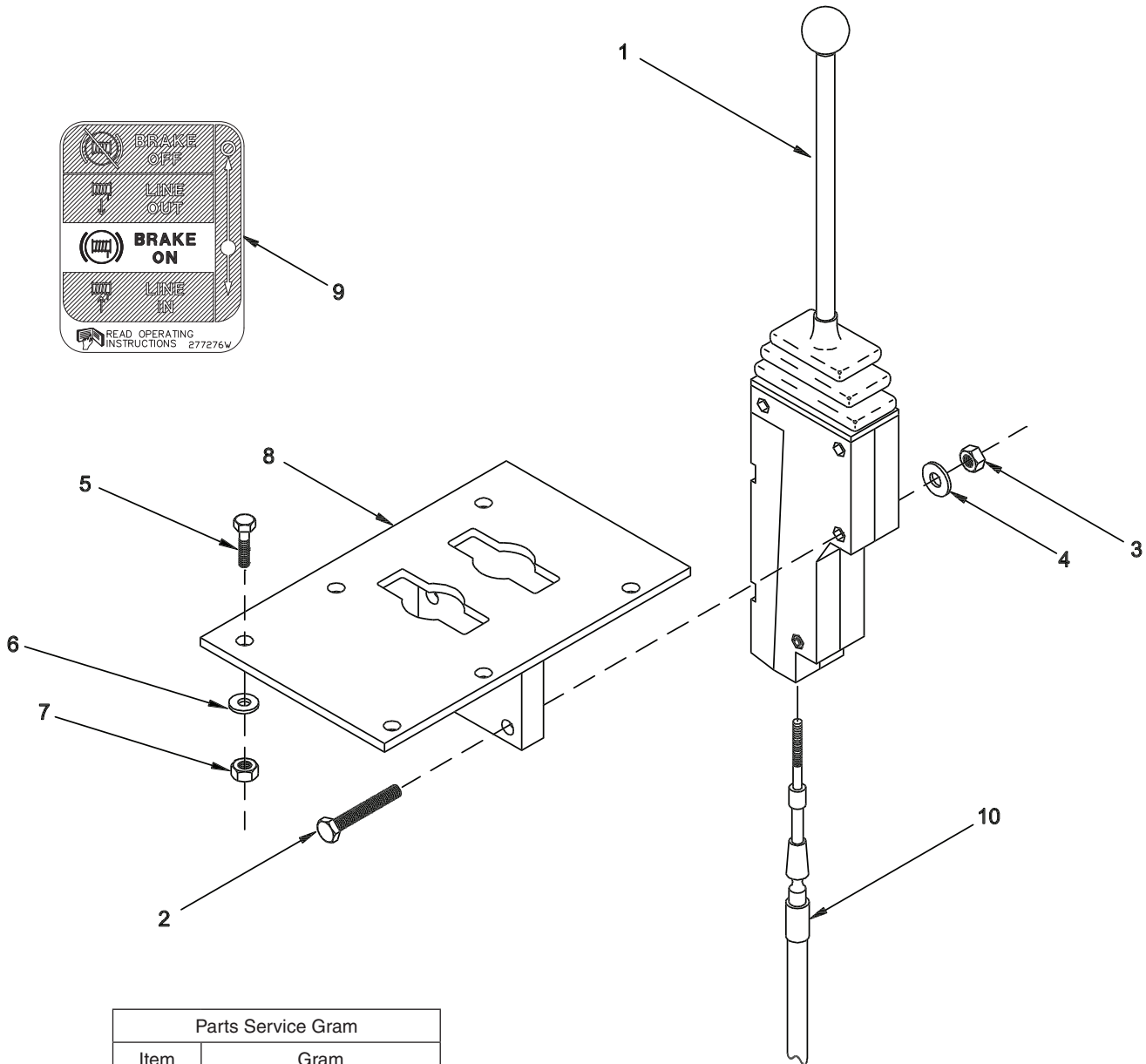
Last Used During 1993

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303105W	Knob	1	19	*f	Lockwasher	2
2	15030W	Nut, Jam	1	20	*f	Spacer	2
3	196465W	Lever	1	21	*f	U-Bolt	1
3	*d 276031W	Lever	1	22	*a 165505W	Assembly, Hose	1
3	*d 276043W	. Bushing	1	22	*b 146296W	Assembly, Hose	1
4	192407W	Gauge, Oil Pressure	1	23	*a 303941W	Cable, Push/Pull Control	1
5	14712W	Fitting	1	23	*b 303938W	Cable, Control	1
6	15225W	Pin, Cotter	3	25	*a, *b 15156W	Lockwasher	4
7	*c 196132W	Spacer	2	25	*a 15156W	Lockwasher	9
8	196468W	Pin	1	26	*a, *b 16805W	Capscrew	4
8	*d 276041W	Pin	1	28	*a, *b 15056W	Nut	4
9	196134W	Assembly, Tube	1	29	277276W	Decal	1
10	196114W	Housing	1	30	*e 114312W	Clamp, Strap	1
11	*d 271748W	Spacer	1	31	*a, *b 281881W	Plate, Cover	1
12	*d 391016W	Washer	1				
13	196128W	Pin	1	*a	Caterpillar D5 (C41, C42)		
14	16445W	Fitting	1	*b	Caterpillar D6 (C43, C44, C50, C71, C82, C480, C481)		
15	14758W	. Adapter	1	*c	Last Used on S/N W6F-2328		
16	*d 15135W	Washer	3	*d	First Used on S/N W6F-2329 and AW6F-1001		
17	15106W	Locknut	1	*e	First Used on S/N W6F-5461 and AW6F-1001		
17	18425W	Lockwasher	1	*f	Included in 2300995W U-bolt Kit (1 Required)		
18	*f	Nut	2				

### Control Levers

Power Control Without Freespool  
 Caterpillar D6D (C43, C44)  
 "New Style" Implemented During 1993

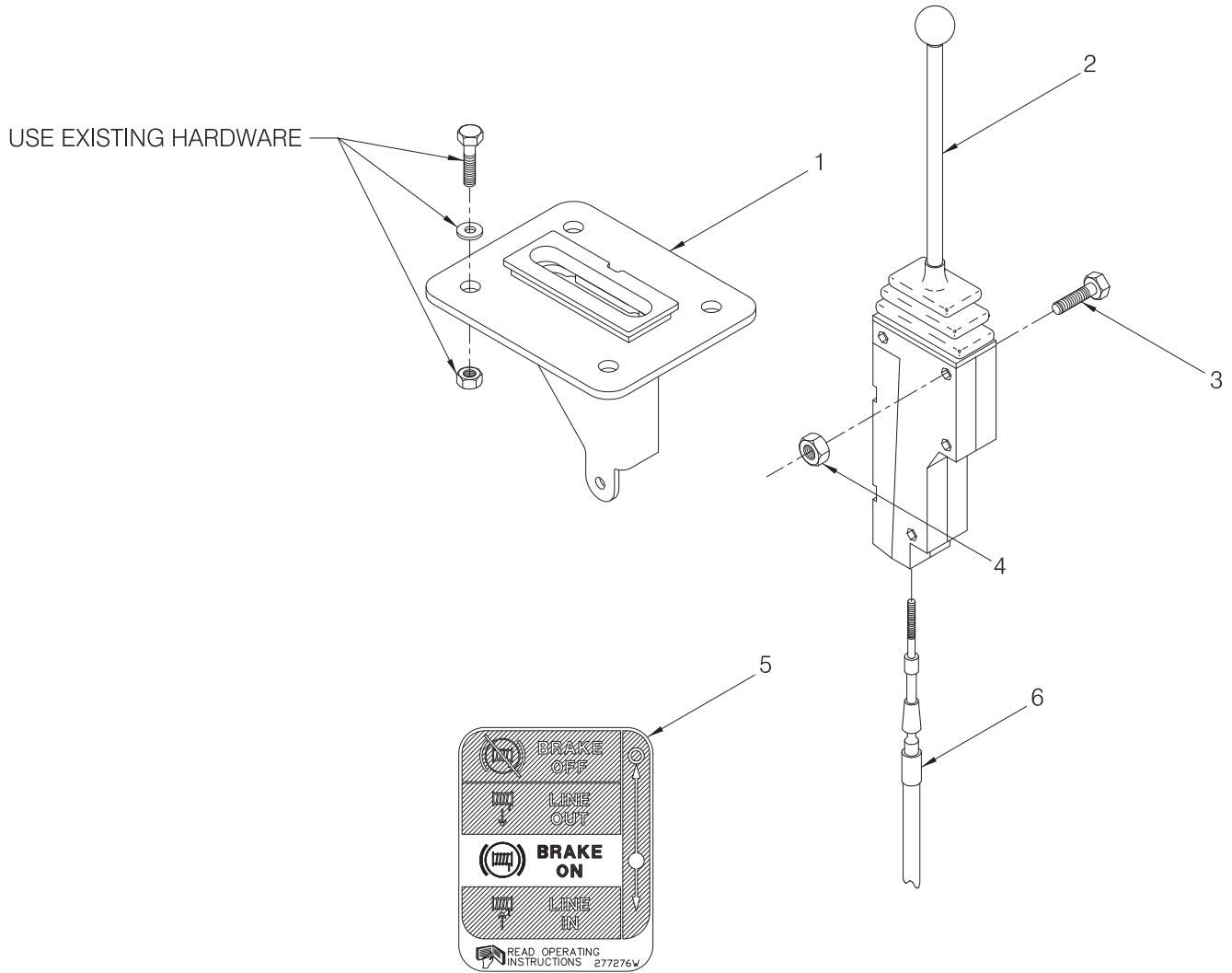


Parts Service Gram	
Item	Gram
1	Contact your dealer.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	1300785W	Lever, Control (3-152)	1	7	*a	Nut	4
2	18518W	Cap screw	3	8	2300326W	Bracket	1
3	191534W	Nut	3	9	277276W	Decal, Control Lever	1
4	18515W	Washer	3	10	303941W	Cable, Push/Pull Control	1
5	*a	Cap screw	4		*a	Use Existing Hardware	
6	*a	Lockwasher	4				

### Control Levers

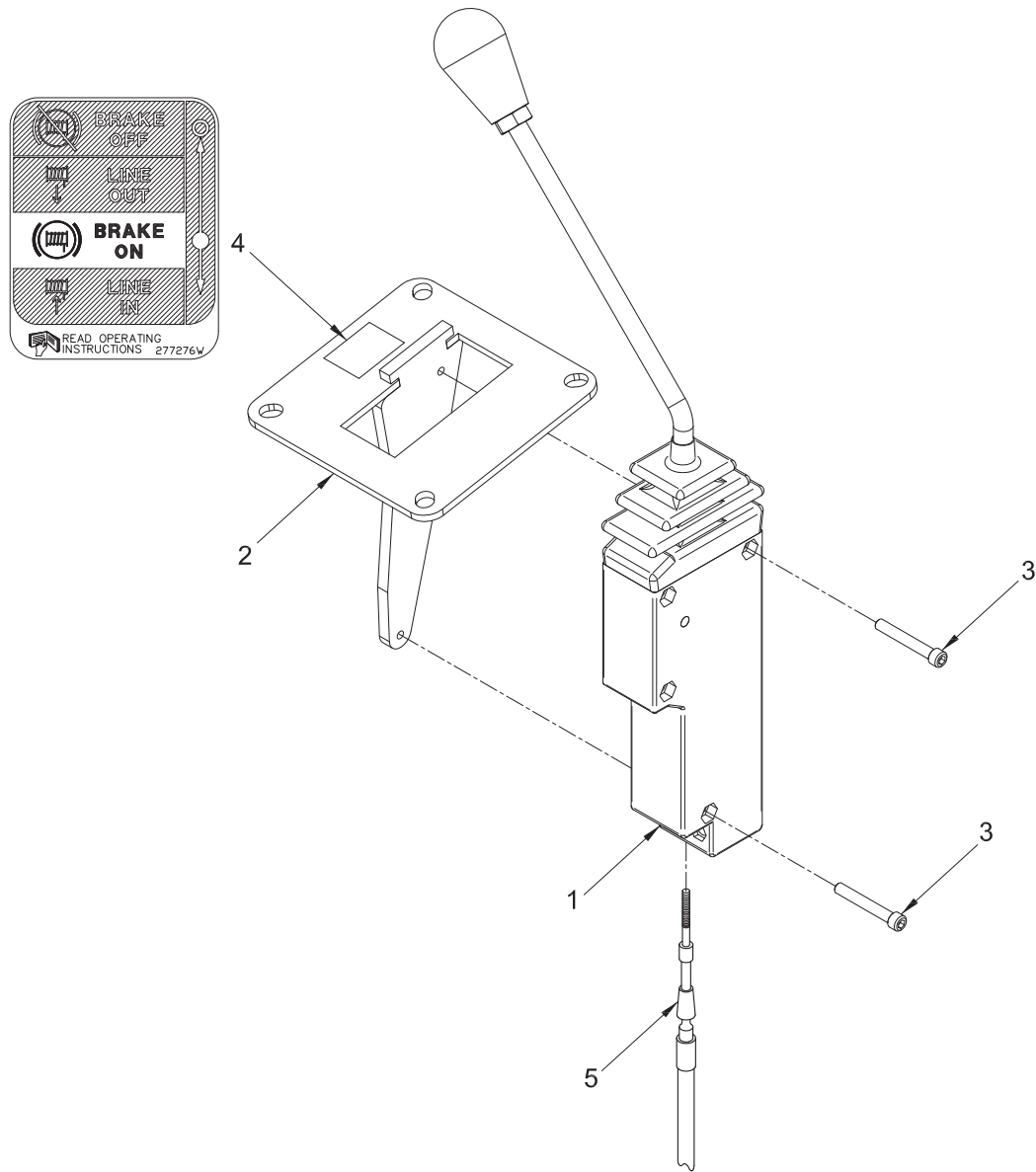
Power Control Without Freespool  
Caterpillar D6G (C73)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2306034W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2306033W	. Bracket, Control Lever	1	4	15113W	. Nut	3
2	2303982W	. Lever, Control (3-155)	1	5	277276W	Decal	1
3	18127W	. Capscrew	3	6	303943W	Cable, Push/Pull Control	1

### Control Levers

Power Control Without Freespool  
 Caterpillar D6G2 without CAB (C82)  
 Last Used on S/N AW6F-4747

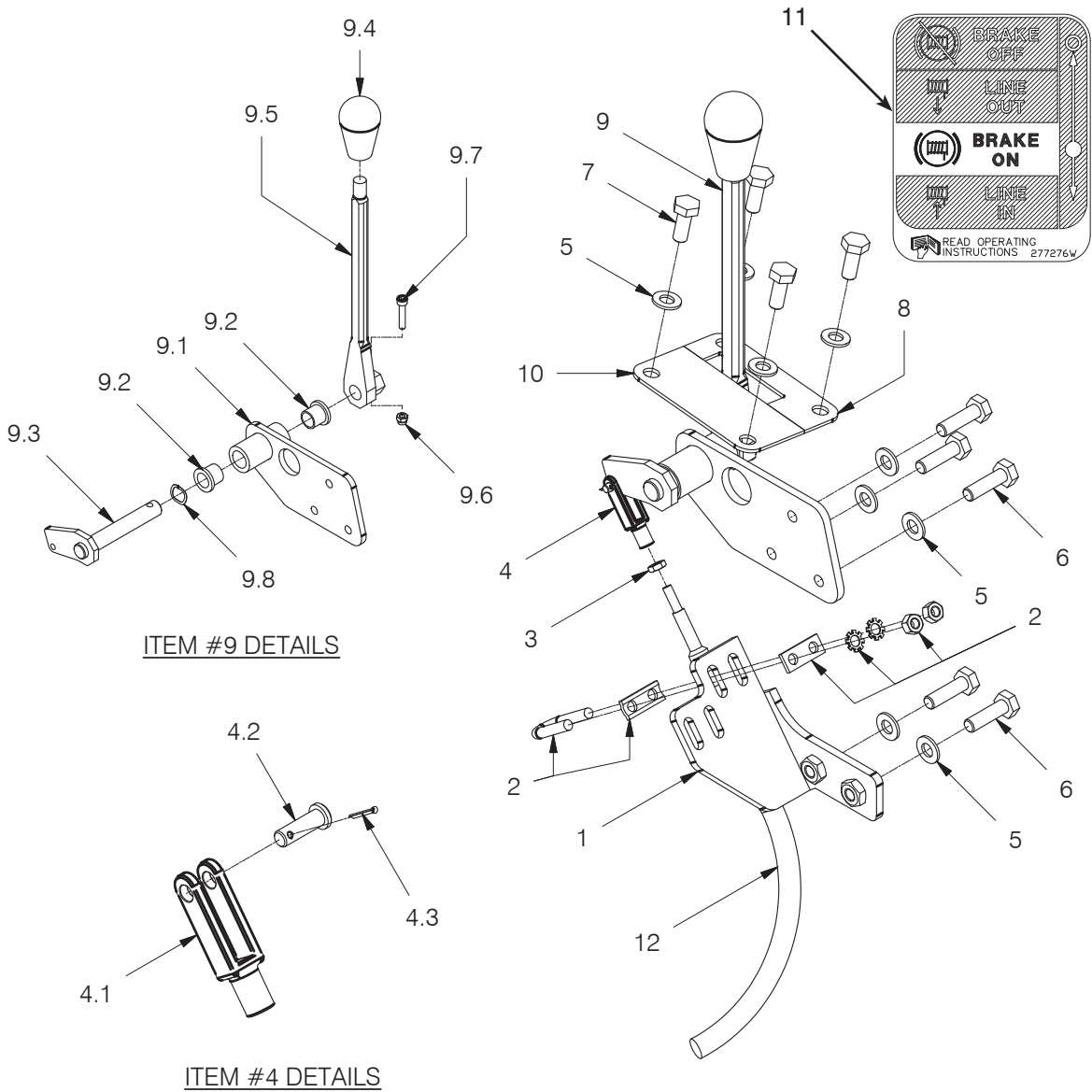


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2311223</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2311209	.Lever, Control (3-155)	1	4	277276W	Decal, Control Lever, w/o Freespool	1
2	2311222	.Bracket	1	5	303943W	Cable, Push/Pull Control	1
3	232987	.Capscrew	2				



### Control Levers

Power Control Without Freespool  
 Caterpillar D6G2 (C82)  
 First Used on S/N AW6F-4748



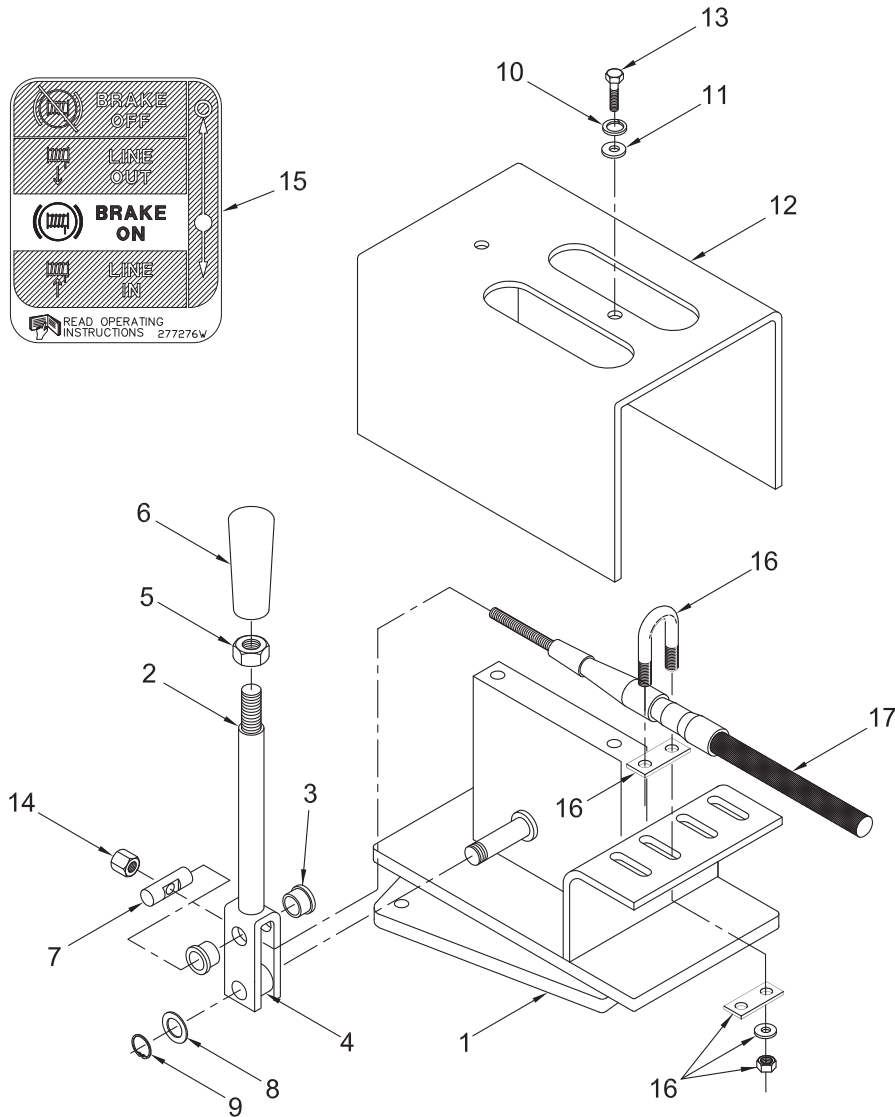
ITEM #9 DETAILS

ITEM #4 DETAILS

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2312387</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2311801	. Bracket, Cable	1	7	292514W	. Capscrew	4
2	2300995W	Kit, U-Bolt	1	8	2311798	. Plate, Cover	1
	-----	. U-Bolt	1	9	2311805	. Assembly, Control Lever	1
	-----	. Plate, Cup	1	9.1	2312572	. Bracket, Lever Mounting	1
	-----	. Plate	1	9.2	257856	. Bushing, Bronze Flange	2
	-----	. Star Washer	2	9.3	2311804	. Tab, Control Lever Cable	1
	-----	. Nut	2	9.4	2304339W	. Knob	1
3	15024W	. Nut, Jam	1	9.5	2313077	. Lever, Control	1
4	257818	. End, Clevis Rod	1	9.6	302399W	. Nut	1
4.1	125W	. End, Rod	1	9.7	293797W	. Capscrew	1
4.2	2302115W	. Pin, Rod End	1	9.8	2313085	. Washer, Wave	1
4.3	15200W	. Pin	1	10	2312455	. Plate, Cover	1
5	296420W	. Washer	9	11	277276W	. Decal, Control Lever w/o Freespool	1
6	Y09C-M1030	. Capscrew	5	12	303945W	Cable, Push/Pull Control (120")	1

### Control Levers

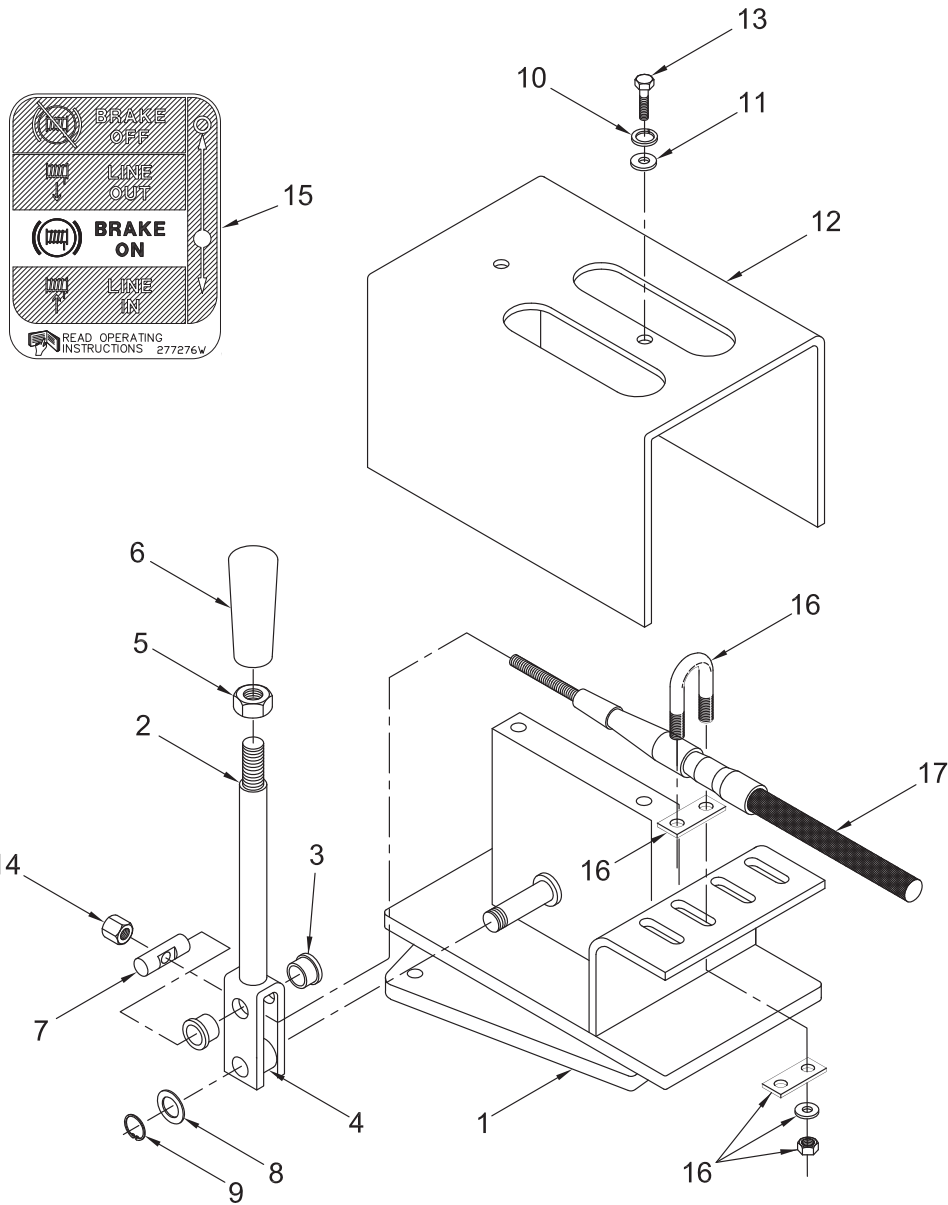
Power Control Without Freespool  
Caterpillar D6H (C480, C481)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2302501W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	381199W	. Bracket	1	12	332822W	. Cover	1
2	276036W	. Assembly, Lever	1	13	16836W	. Capscrew	2
3	196144W	. Bushing, Nylon	2	14	2301487W	. Nut, Tall	1
4	276043W	. Bushing, Brass	1	15	277276W	Decal	1
5	15030W	. Nut	1	16	2300995W	Kit, U-Bolt	1
6	2303105W	. Knob	1		-----	. U-Bolt	1
7	196128W	. Pin	1		-----	. Plate, Cup	1
8	15135W	. Lockwasher	2		-----	. Plate	1
8	18515W	. Washer	2		-----	. Washer	2
9	190930W	. Ring, Snap	1		-----	. Nut	2
10	15155W	. Washer	2	17	303944W	Cable, Push/Pull Control	1
11	18515W	. Washer	2				

### Control Levers

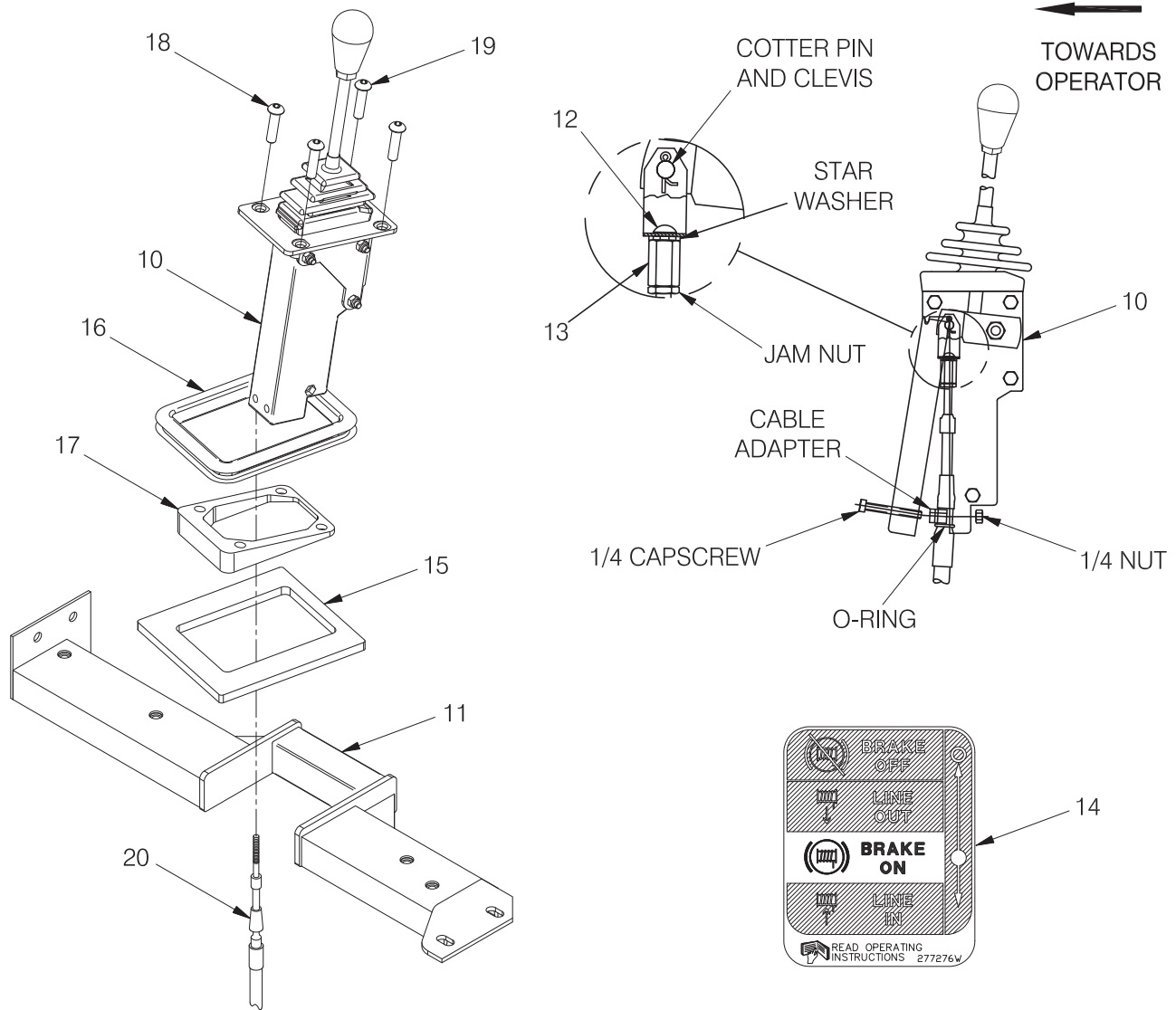
Power Control Without Freespool  
 Caterpillar D6R (C50, C480)  
 Last Used on S/N AW6F-4441



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2302501W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	381199W	. Bracket	1	12	332822W	. Cover	1
2	276036W	. Assembly, Lever	1	13	16836W	. Capscrew	2
3	196144W	. Bushing, Nylon	2	14	2301487W	. Nut, Tall	1
4	276043W	. Bushing, Brass	1	15	277276W	Decal	1
5	15030W	. Nut	1	16	2300995W	Kit, U-Bolt	1
6	2303105W	. Knob	1		-----	. U-Bolt	1
7	196128W	. Pin	1		-----	. Plate, Cup	1
8	15135W	. Lockwasher	2		-----	. Plate	1
8	18515W	. Washer	2		-----	. Washer	2
9	190930W	. Ring, Snap	1		-----	. Nut	2
10	15155W	. Washer	2	17	303944W	Cable, Push/Pull Control	1
11	18515W	. Washer	2				

### Control Levers

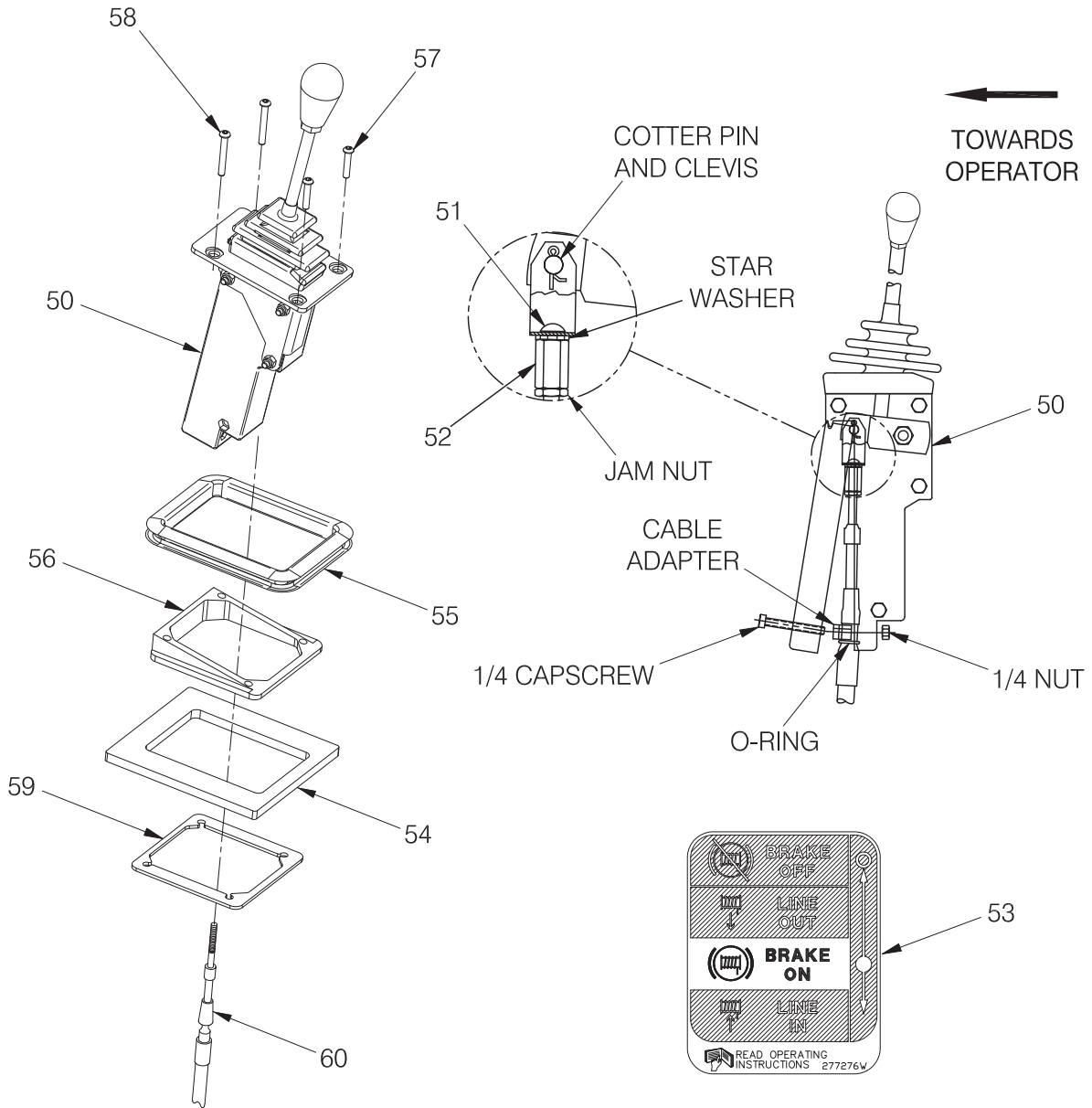
Power Control Without Freespool  
 Caterpillar D6R (C50, C480)  
 First Used on S/N AW6F-4442



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
10	2304557W	Assembly, Control Lever (3-156)	1	16	2301055W	Trim, Protective	1.75 ft.
11	2304571W	Assembly, Channel	1	17	2304867W	Spacer	1
12	18717W	CapscREW	1	18	2304868W	CapscREW	2
13	383881W	Nut, Tall	1	19	18738W	CapscREW	2
14	277276W	Decal, Without Freespool	1	20	303944W	Cable, Push/Pull Control	1
15	2304569W	Gasket	1				

### Control Levers

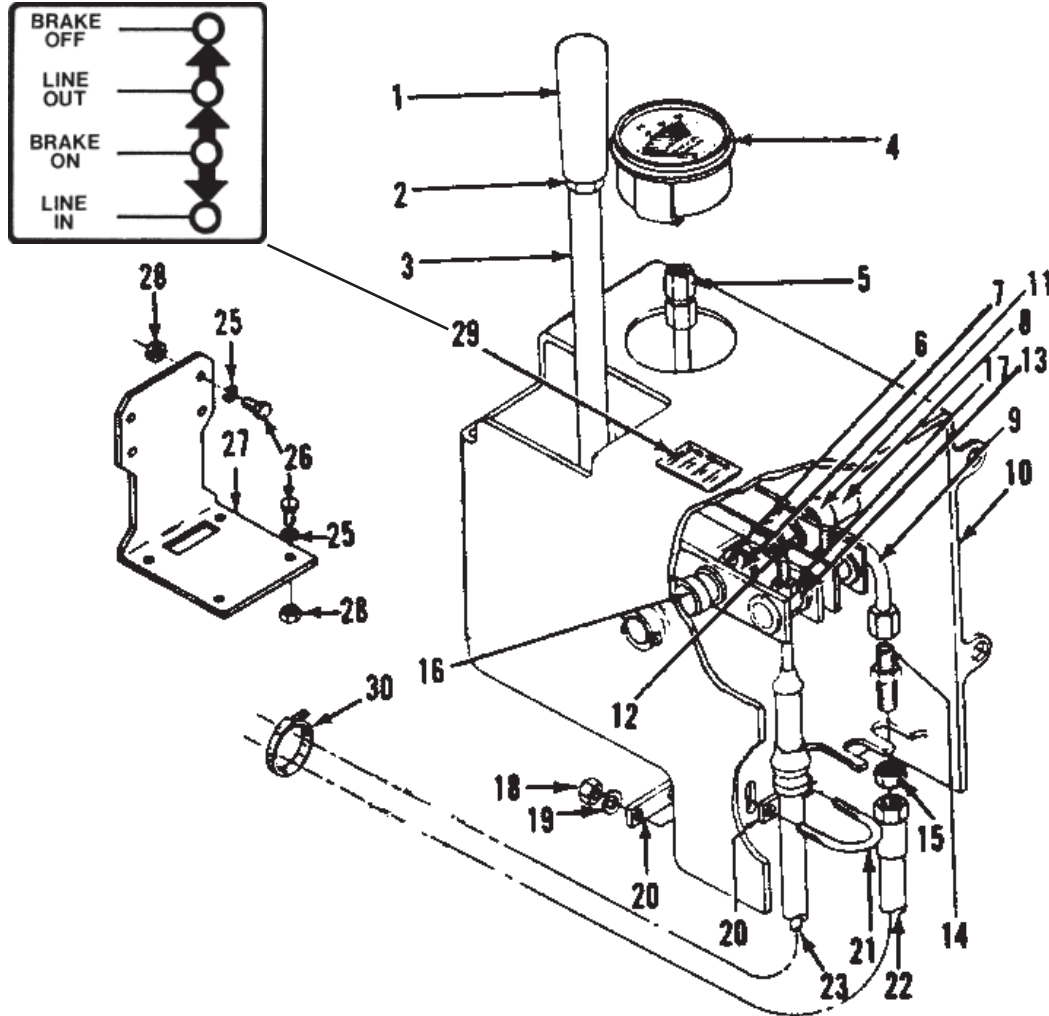
Power Control Without Freespool  
Caterpillar D6R Series II & III (C71)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
50	2305202W	Assembly, Control Lever (3-157)	1	56	2304879W	Spacer	1
51	18717W	Capscrew	1	57	296162W	Capscrew	2
52	383881W	Nut, Tall	1	58	2305199W	Capscrew	2
53	277276W	Decal, Without Freespool	1	59	2305203W	Gasket	1
54	2304569W	Gasket	1	60	303944W	Cable, Push/Pull Control	1
55	2301055W	Trim, Protective	1.75 ft.				

### Control Levers

Power Control Without Freespool  
Dresser TD-15B (H41) and TD-15C (H41)  
Last Used During 1993  
Page 1 of 2



**Control Levers**

Power Control Without Freespool  
 Dresser TD-15B (H41) and TD-15C (H41)  
 Last Used During 1993  
 Page 2 of 2

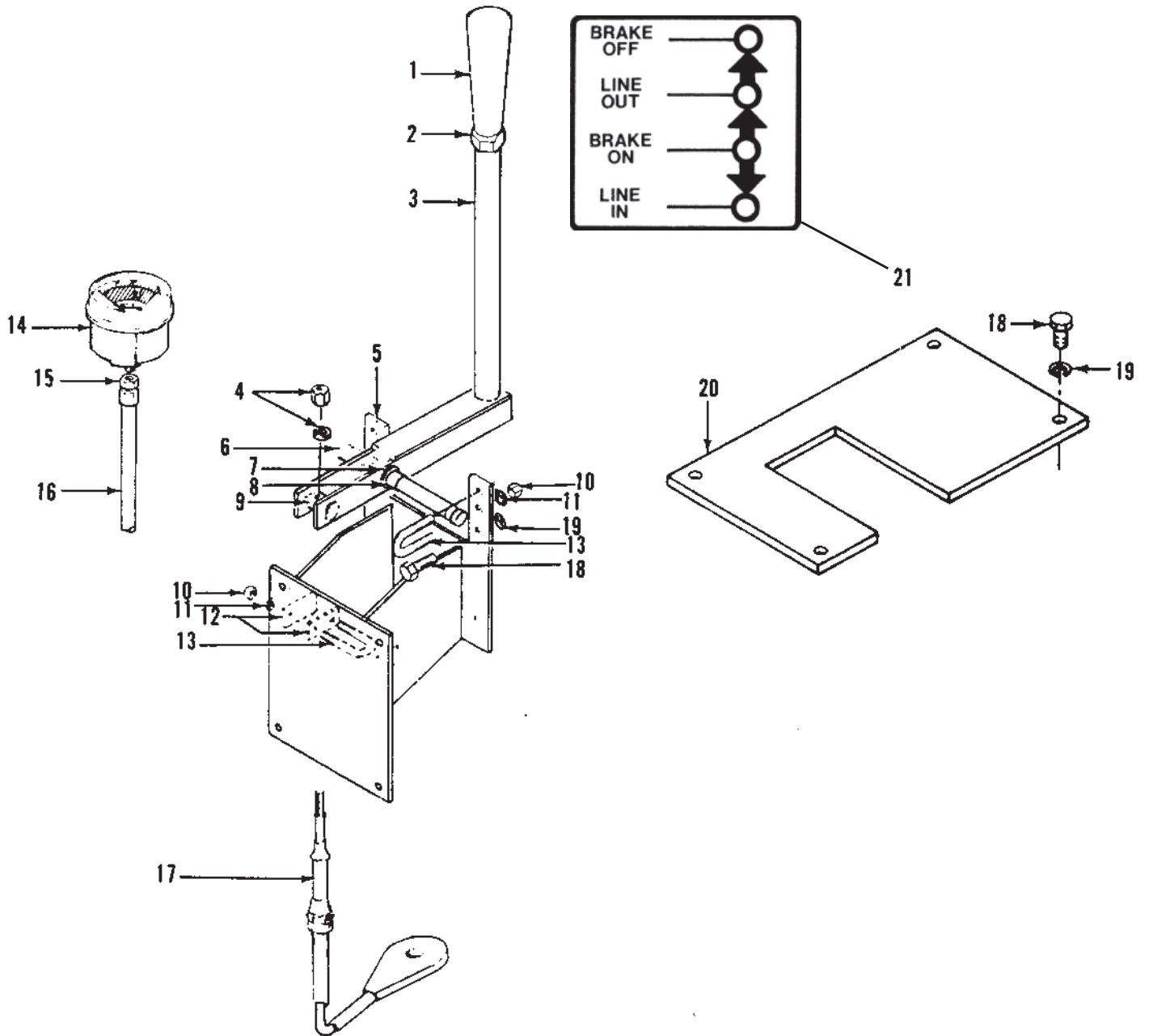
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303105W	Knob	1	17	15106W	Locknut	1
2	15030W	Nut, Jam	1	17	18425W	Lockwasher	1
3	196465W	Lever	1	18	*d -----	Nut	2
3	*b 276031W	Lever	1	19	*d -----	Lockwasher	2
3	*b 276043W	. Bushing	1	20	*d -----	Spacer	2
4	192407W	Gauge, Oil Pressure	1	21	*d -----	U-Bolt	1
5	14712W	Fitting	1	22	165504W	Assembly, Hose	1
6	15225W	Pin, Cotter	3	23	303939W	Cable, Control	1
7	*a 196132W	Spacer	2	25	15156W	Lockwasher	8
8	196468W	Pin	1	26	16828W	Capscrew	8
8	*b 276041W	Pin	1	27	217221W	Bracket	1
9	196134W	Assembly, Tube	1	28	15056W	Nut	8
10	196114W	Housing	1	29	277276W	Decal	1
11	*b 271748W	Spacer	1	30	*c 114312W	Clamp, Strap	1
12	*b 391016W	Washer	1				
13	196128W	Pin	1		*a	Last Used on S/N W6F-2328	
14	16445W	Fitting	1		*b	First Used on S/N W6F-2329 and S/N AW6F-1001	
15	14758W	. Adapter	1		*c	First Used on S/N W6F-5461 and S/N AW6F-1001	
16	*b 15135W	Washer	3		*d	Included in 2300995W U-bolt Kit (1 Required)	

### Control Levers

Power Control Without Freespool

Fiat Allis 10C (A47), 14B (A44, A45) and 14C (A44, A45, A46)

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**Control Levers**

Power Control Without Freespool

Fiat Allis 10C (A47), 14B (A44, A45) and 14C (A44, A45, A46)

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303105W	Knob	1	14	*d 192407W	Gauge, Oil Pressure	1
2	15030W	Nut, Jam	1	15	*d 14712W	Fitting	1
3	276031W	Lever	1	16	*b, *d 205004W	Assembly, Hose	1
3	276043W	. Bushing	1	16	*a, *d 165504W	Assembly, Hose	1
4	15106W	Locknut	1	17	*b 303943W	Cable, Control	1
4	18425W	Lockwasher	1	17	*a 303941W	Cable, Control	1
5	283431W	Bracket	1	18	16805W	Capscrew	8
6	276081W	Pin	1	19	15156W	Lockwasher	8
7	15135W	Washer	5	20	287028W	Cover	1
8	271747W	Spacer	1	21	277276W	Decal	1
9	196128W	Pin	1				
10	*c -----	Nut	2		*a Fiat-Allis 10C		
11	*c -----	Lockwasher	2		*b Fiat-Allis 14B and 14C		
12	*c -----	Spacer	2		*c Included in 2300995W U-Bolt Kit (1 required)		
13	*c -----	U-Bolt	1		*d Last Used on S/N AW6F-1000		

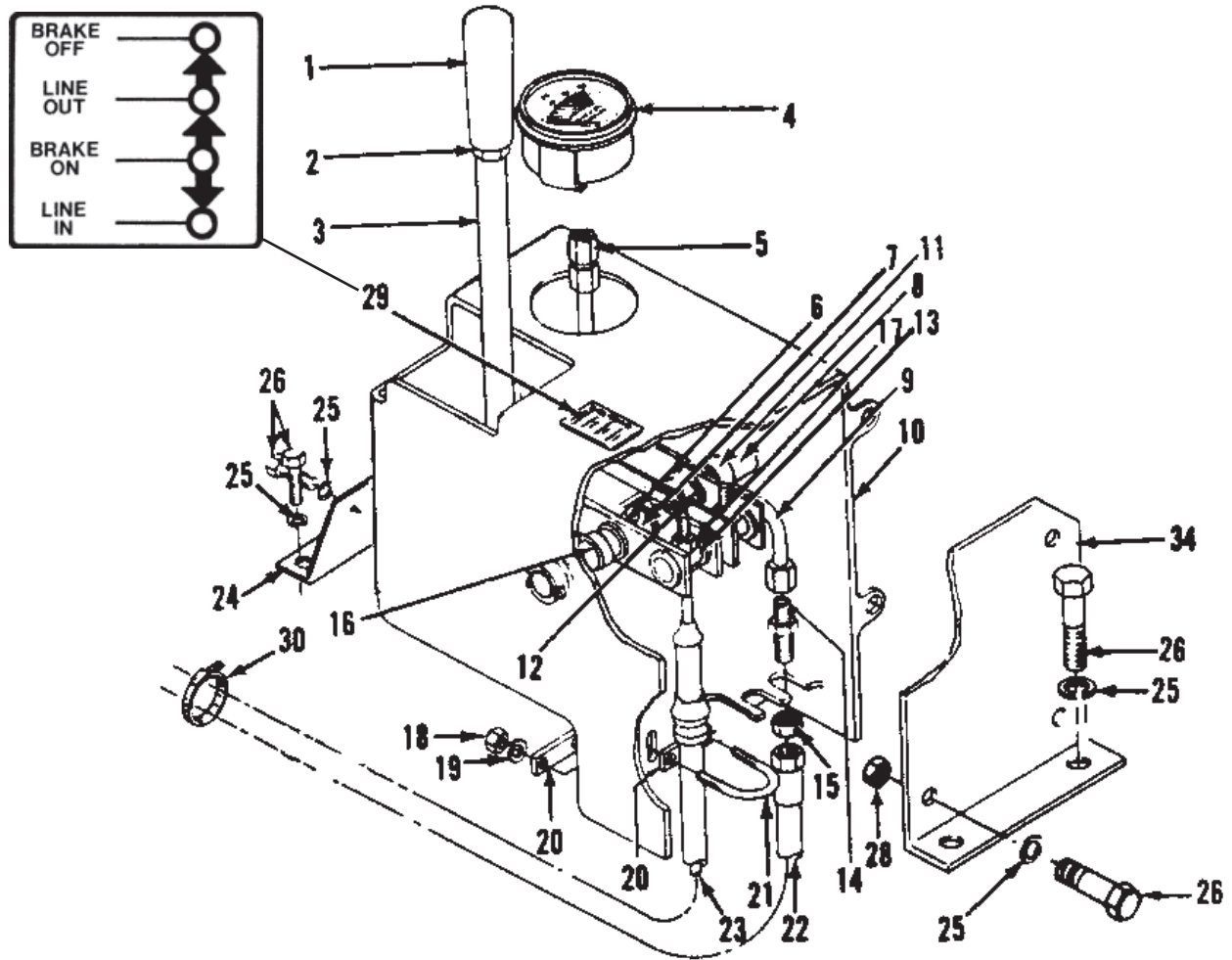
### Control Levers

Power Control Without Freespool

Fiat-Allis 11B (A41, A42)

Last Used During 1993

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**Control Levers**

Power Control Without Freespool

Fiat-Allis 11B (A41, A42)

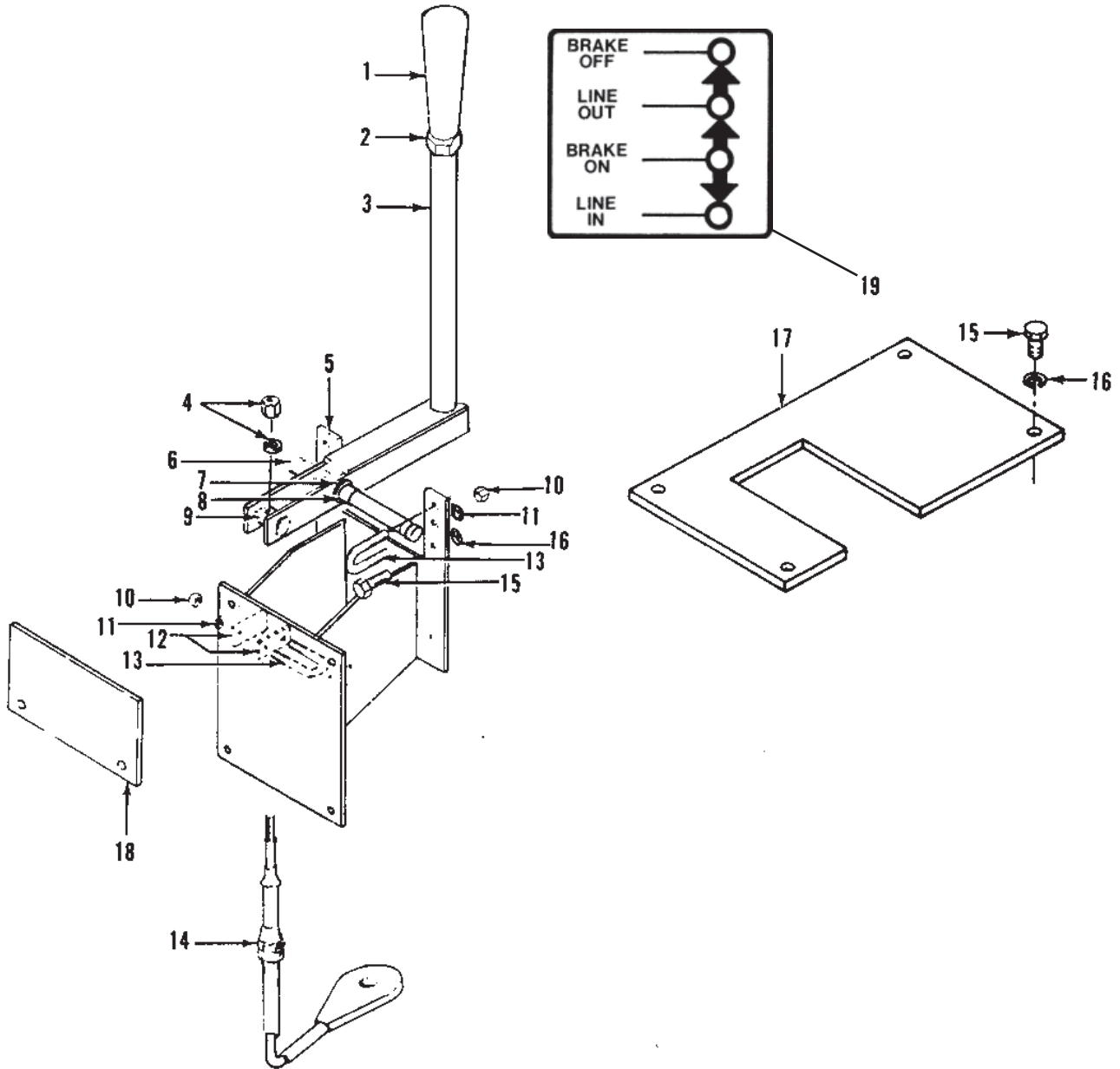
Last Used During 1993

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty		
1	2303105W	Knob	1	18	*d	-----	Nut	2	
2	15030W	Nut, Jam	1	19	*d	-----	Lockwasher	2	
3	196465W	Lever	1	20	*d	-----	Spacer	2	
3	*b	276031W	Lever	1	21	*d	-----	U-Bolt	1
3	*b	276043W	. Bushing	1	22	165504W	Assembly, Hose	1	
4	192407W	Gauge, Oil Pressure	1	23	196035W	Cable, Control	1		
5	14712W	Fitting	1	24	201848W	Bracket	1		
6	15225W	Pin, Cotter	3	25	15156W	Lockwasher	9		
7	*a	196132W	Spacer	2	26	16805W	Capscrew	9	
8	196468W	Pin	1	28	15056W	Nut	4		
8	*b	276041W	Pin	1	29	277276W	Decal	1	
9	196134W	Assembly, Tube	1	30	*c	114312W	Clamp, Strap	1	
10	196114W	Housing	1	34	201847W	Bracket	1		
11	*b	271748W	Spacer	1					
12	*b	391016W	Washer	1	*a	Last Used on S/N W6F-2328			
13	196128W	Pin	1	*b	First Used on S/N W6F-2329 and S/N AW6F-1001				
14	16445W	Fitting	1	*c	First Used on S/N W6F-5461 and S/N AW6F-1001				
15	14758W	. Adapter	1	*d	Included in 2300995W U-bolt Kit (1 Required)				
16	*b	15135W	Washer	3					
17	15106W	Locknut	1						
17	18425W	Lockwasher	1						

### Control Levers

Power Control Without Freespool  
Fiat Allis 14C (A44, A45) and FD14 (A48)  
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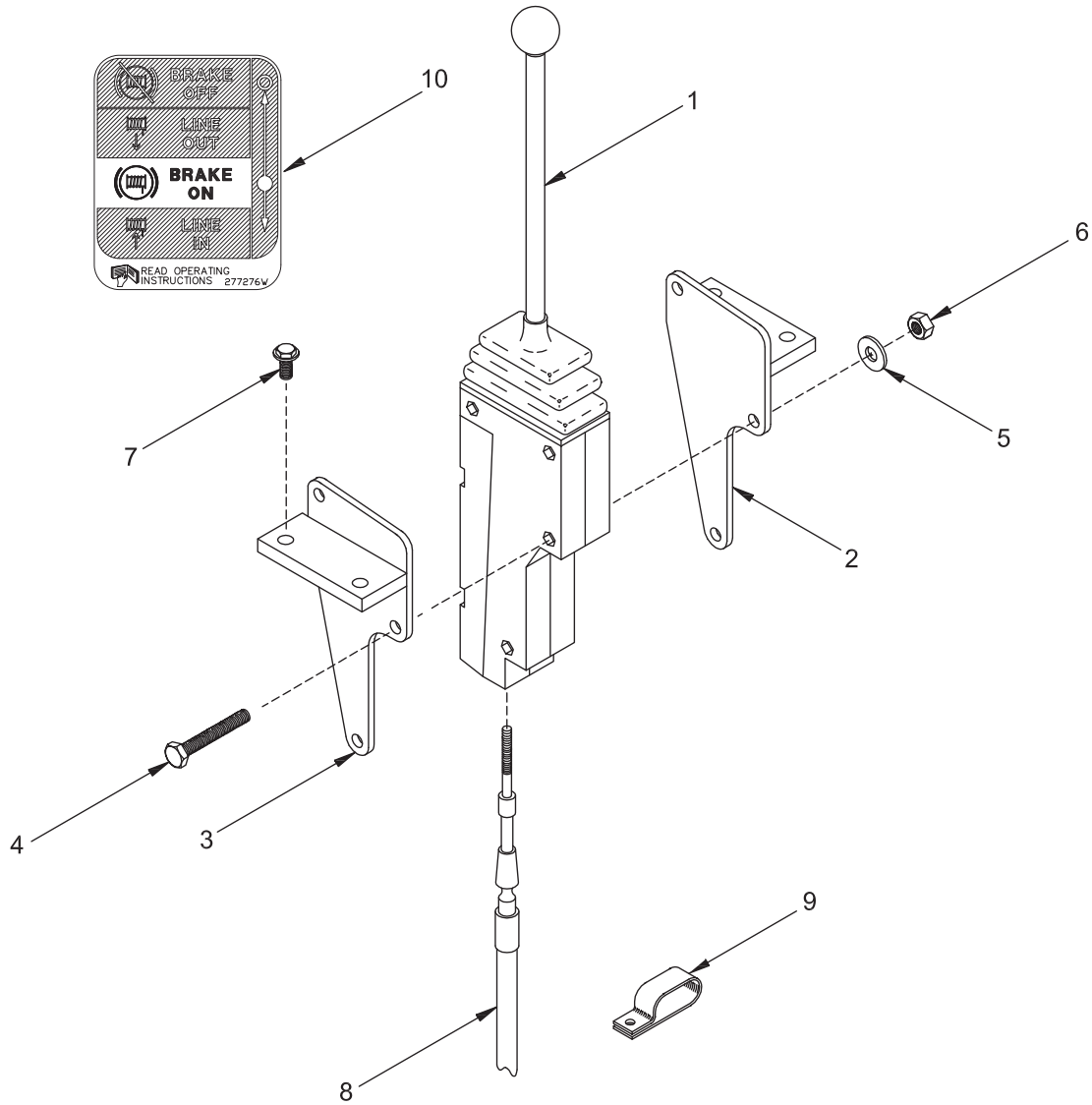
**Control Levers**

Power Control Without Freespool  
 Fiat Allis 14C (A44, A45) and FD14 (A48)  
 Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	196469W	Knob	1	11	*a -----	Lockwasher	2
2	15030W	Nut, Jam	1	12	*a -----	Spacer	2
3	276031W	Lever	1	13	*a -----	U-Bolt	1
3	276043W	. Bushing	1	14	303941W	Cable, Control	1
4	15106W	Locknut	1	15	16805W	Capscrew	8
4	18425W	Lockwasher	1	16	15156W	Lockwasher	8
5	283431W	Bracket	1	17	287028W	Cover	1
6	276081W	Pin	1	18	283430W	Plate	1
7	15135W	Washer	5	19	277276W	Decal	1
8	271747W	Spacer	1				
9	196128W	Pin	1		*a	Included in 2300995W U-Bolt Kit (1 required)	
10	*a -----	Nut	2				

### Control Levers

Power Control Without Freespool  
 Fiat-Hitachi 14E (A48)  
 Last Used on S/N AW6F-4407

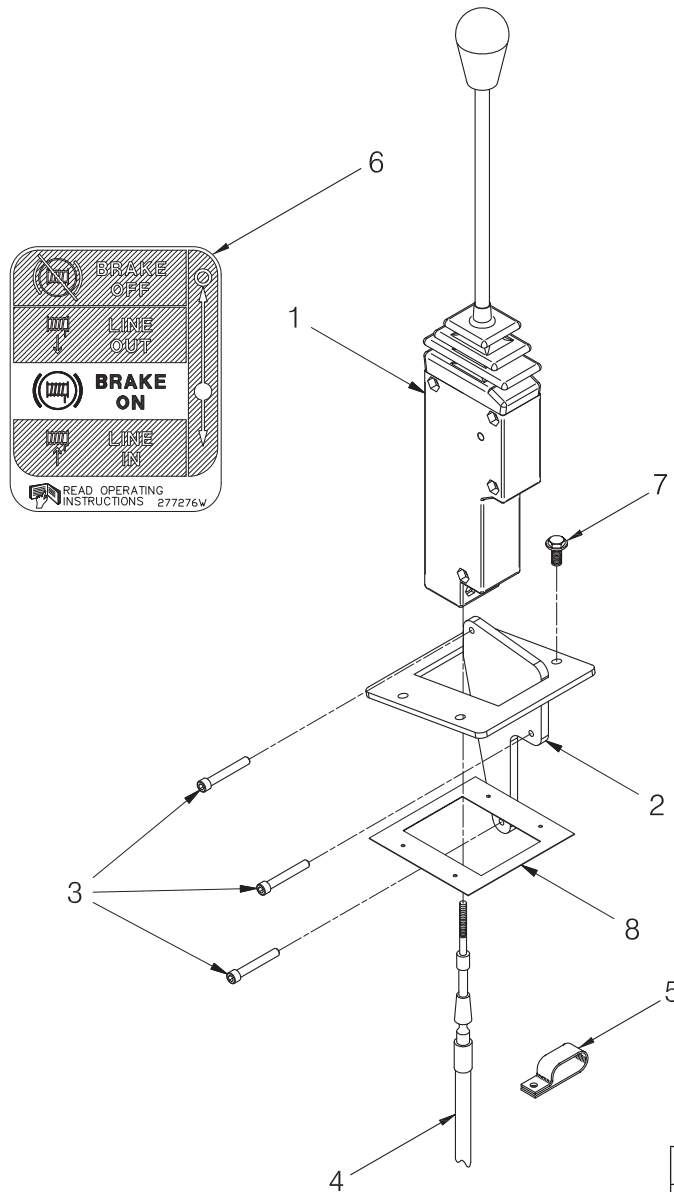


Parts Service Gram	
Item	Gram
1	Contact you dealer.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2301271W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	1300785W	.Lever, Control (3-152)	1	6	15055W	.Nut	3
2	1308437W	.Bracket, RH	1	7	397161W	Capscrew	4
3	1308436W	.Bracket, LH	1	8	303945W	Cable, Control	1
4	18513W	.Capscrew	3	9	110322W	Clamp, Insulated	1
5	15155W	.Washer	3	10	277276W	Decal	1

### Control Levers

Power Control Without Freespool  
 Fiat-Hitachi 14E (A48)  
 First Used on S/N AW6F-4408



Parts Service Gram	
Item	Gram
1	Contact you dealer.

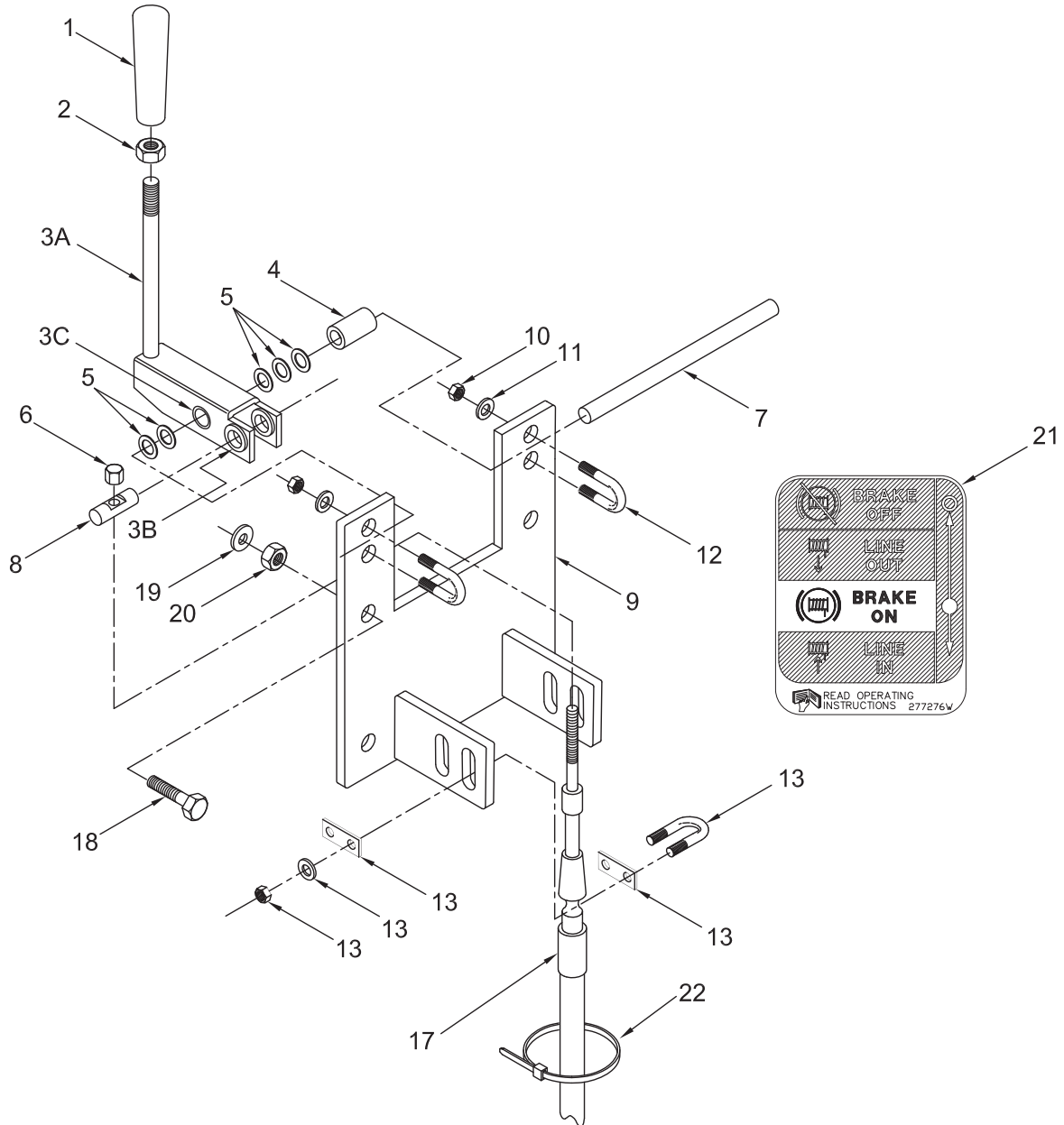
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2304330W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2303984W	. Lever, Control (3-155)	1	5	110322W	Clamp, Insulated	1
2	2304395W	. Mounting, Control Lever	1	6	277276W	Decal	1
3	2304380W	. Capscrew	3	7	397161W	Capscrew	4
4	303945W	Cable, Control	1	8	2301270W	Template, Quadrastat Hole Pattern	1

### Control Levers

Power Control Without Freespool

John Deere 750 (E41), 755 (E32, E41) and 850 (E43) Without Cab

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**Control Levers**

Power Control Without Freespool

John Deere 750 (E41), 755 (E32, E41) and 850 (E43) Without Cab

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>264051W</b>	<b>Assembly, Control Lever</b>	<b>1</b>	11	15155W	. Lockwasher	4
1	2303105W	. Knob	1	12	196129W	. U-Bolt	2
2	15030W	. Nut, Jam	1	13	2300995W	Kit, U-Bolt	1
3	276031W	. Assembly Lever	1		-----	. U-Bolt	1
3A	276029W	. . Lever	1		-----	. Plate, Cup	1
3B	196144W	. . Bushing, Nylon	2		-----	. Plate	1
3C	276043W	. . Bushing	1		-----	. Washer	2
4	271747W	. Spacer	1		-----	. Nut	2
5	15135W	. Washer	5	17	303941W	Cable, Control	1
6	2301487W	. Nut	1	18	16805W	Capscrew	4
7	276081W	. Pin	1	19	15156W	Lockwasher	4
8	196128W	. Pin	1	20	15056W	Nut	4
9	261567W	. Bracket	1	21	277276W	Decal	1
10	15055W	. Nut	4	22	114312W	Clamp, Strap	1

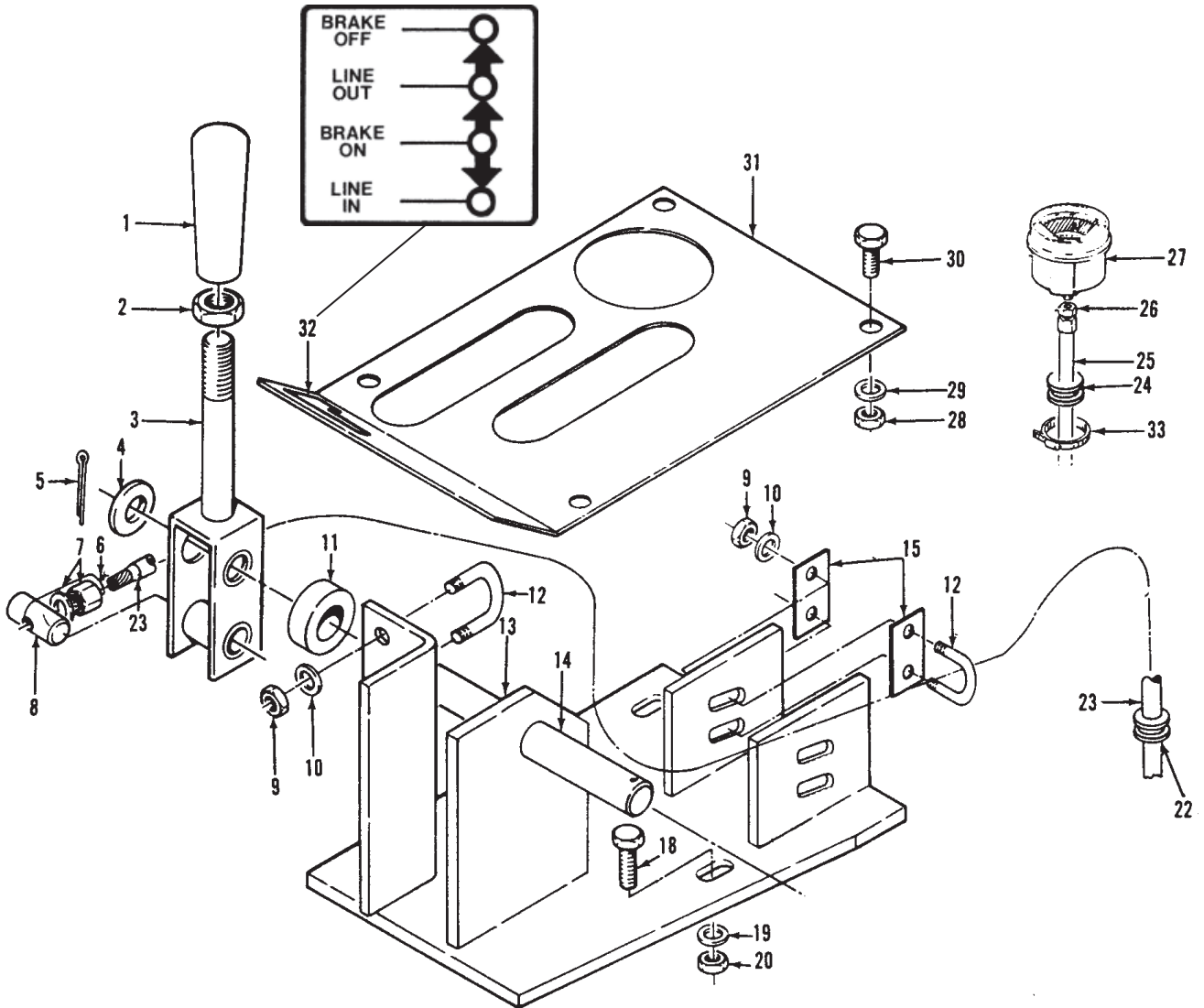
### Control Levers

Power Control Without Freespool

John Deere 750 (E32) and 850 (E42) With Cab

First Used on S/N W6F-7144 and AW6F-1001 for John Deere 750B (E32) and 850B (E42) With Cab

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**Control Levers**

Power Control Without Freespool

John Deere 750 (E32) and 850 (E42) With Cab

First Used on S/N W6F-7144 and AW6F-1001 for John Deere 750B (E32) and 850B (E42) With Cab

Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303105W	Knob	1	19	15155W	Lockwasher	3
2	15030W	Nut, Jam	1	20	15055W	Nut	3
3	335468W	Lever	1	22	69727W	Grommet	1
3	276043W	. Bushing	1	23	303943W	Cable, Control	1
4	15135W	Washer	1	24	239419W	Grommet	1
5	15225W	Pin, Cotter	1	25	398890W	Assembly, Hose	1
6	67355W	Wire	1	26	14516W	Fitting	1
7	18425W	Lockwasher	1	27	192407W	Gauge, Oil Pressure	1
7	15106W	Locknut	1	28	15054W	Nut	4
8	196128W	Pin	1	29	15154W	Lockwasher	4
9	*c -----	Nut	4	30	18460W	Capcrew	4
10	*c -----	Lockwasher	4	31	*a 336856W	Cover	1
11	391016W	Washer	1	32	277276W	Decal	1
12	*c -----	U-Bolt	2	33	114312W	Tie, Cable	1
13	336854W	Bracket	1				
14	335470W	Pin	1				
15	*c -----	Spacer	4				
18	18497W	Capcrew	3				

\*a Last Used on S/N W6F-7143 and S/N AW6F-1000  
 \*b First Used on S/N W6F-7144 and S/N AW6F-1001  
 \*c Included in 2300995W U-Bolt Kit (2 Required)

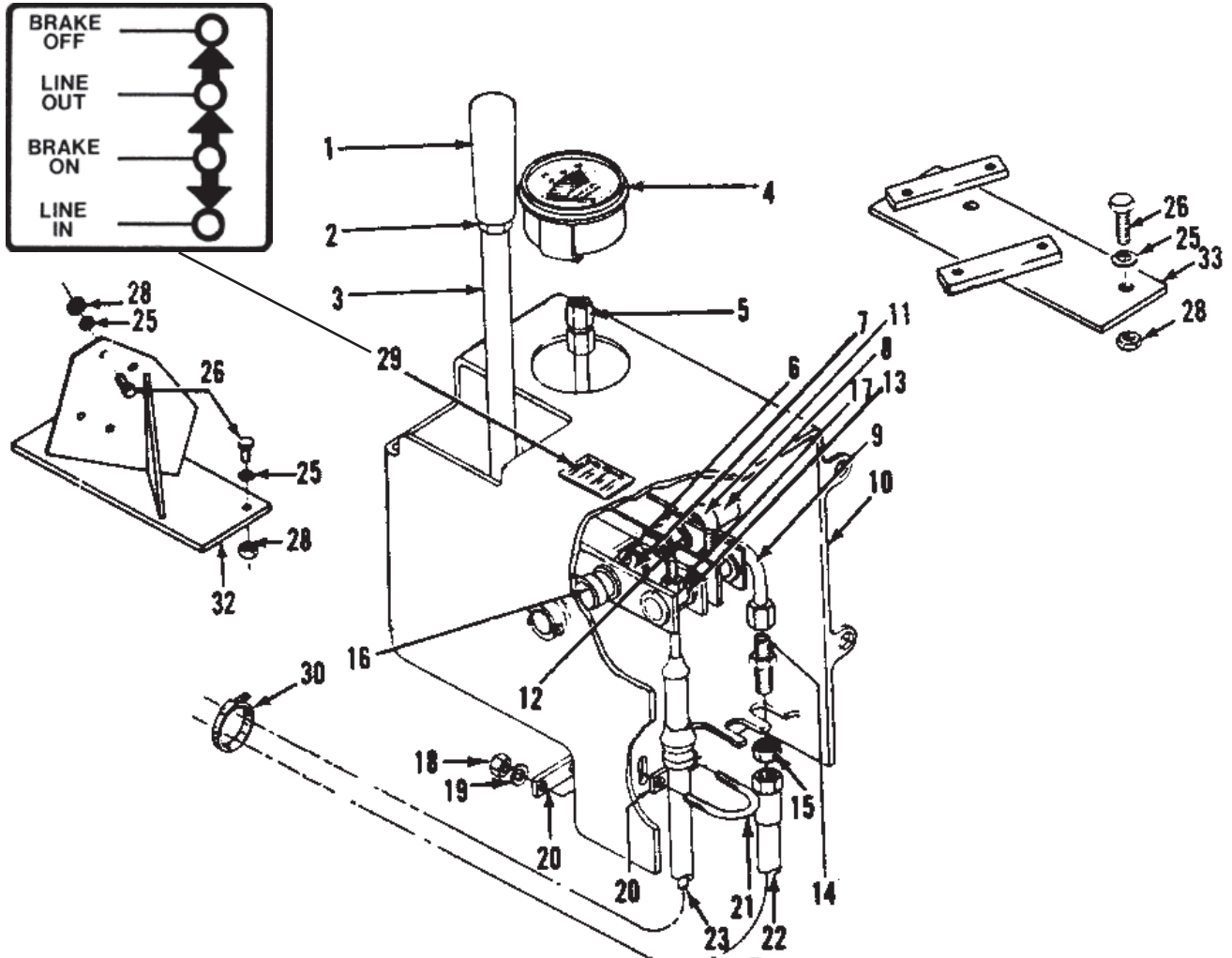
### Control Levers

Power Control Without Freespool

Komatsu D65-6 (K42)

Last Used During 1993

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**Control Levers**

Power Control Without Freespool

Komatsu D65-6 (K42)

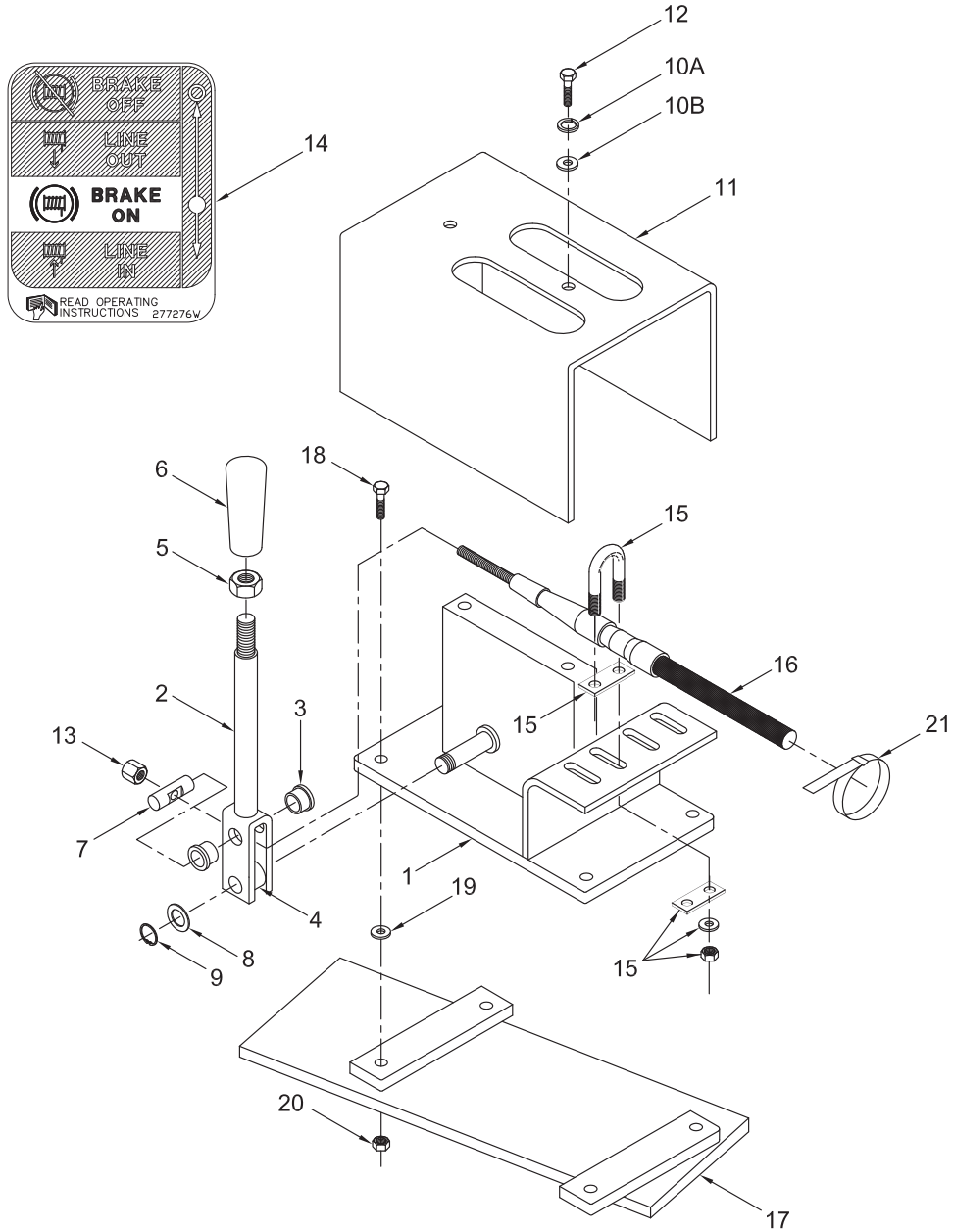
Last Used During 1993

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Item	Part No.	Description	Qty	Item	Part No.	Description	Qty		
1	2303105W	Knob	1	19	*f	Lockwasher	2		
2	15030W	Nut, Jam	1	20	*f	Spacer	2		
3	196465W	Lever	1	21	*f	U-Bolt	1		
3	*d	276031W	Lever	1	22	205006W	Assembly, Hose	1	
3	*d	276043W	. Bushing	1	22	*b, *e	265325W	Assembly, Hose	1
4	192407W	Gauge, Oil Pressure	1	23		347020W	Cable, Control	2	
5	14712W	Fitting	1	25		15156W	Lockwasher	4	
6	15225W	Pin, Cotter	3	26	*a	16805W	Capscrew	4	
7	*c	196132W	Spacer	2	26	*b	16497W	Capscrew	4
8	196468W	Pin	1	28	*a	15056W	Nut	4	
8	*d	276041W	Pin	1	29		277276W	Decal	1
9	196134W	Assembly, Tube	1	30	*e	114312W	Tie, Cable	1	
10	196114W	Housing	1	32	*a	222901W	Bracket	1	
11	*d	271748W	Spacer	1	33	*b	346523W	Bracket	1
12	*d	391016W	Washer	1					
13	196128W	Pin	1		*a	Komatsu D65E-6			
14	16445W	Fitting	1		*b	Komatsu D65E-7			
15	14758W	. Adapter	1		*c	Last Used on S/N W6F-2328			
16	*d	15135W	Washer	3		*d	First Used on S/N W6F-2329 and S/N AW6F-1001		
17	15106W	Locknut	1			*e	First Used on S/N W6F-5461 and S/N AW6F-1001		
17	18425W	Lockwasher	1			*f	Included in 2300995W U-bolt Kit (1 Required)		
18	*f	-----	Nut	2					

### Control Levers

Power Control Without Freespool  
 Komatsu D65-8 (K45) and D68-1 (K45)  
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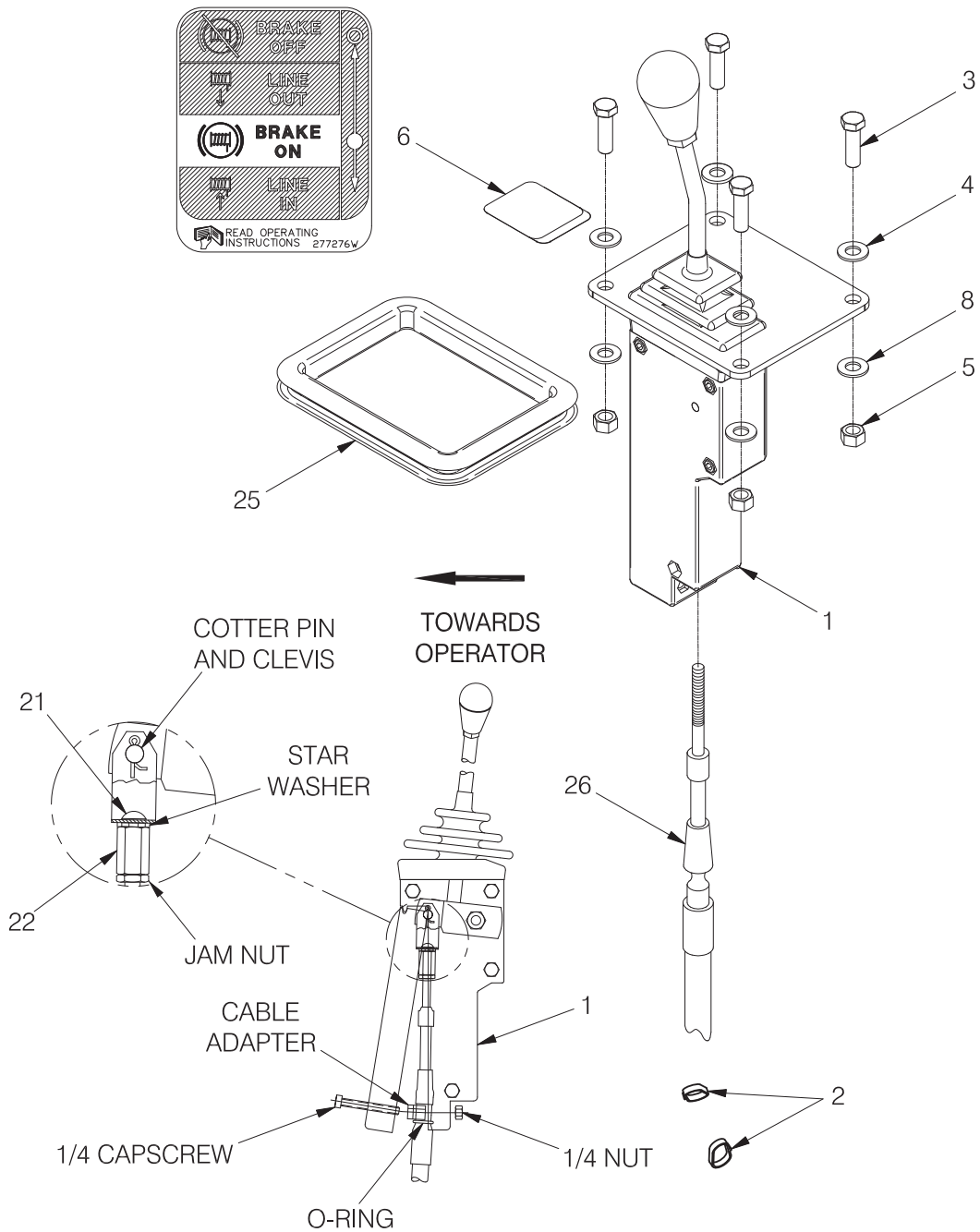
**Control Levers**

Power Control Without Freespool  
 Komatsu D65-8 (K45) and D68-1 (K45)  
 Page 2 of 2

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>332820W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	332823W	. Bracket	1	13	2301487W	. Nut, Tall	1
2	276036W	. Assembly, Lever	1	14	277276W	Decal	1
3	196144W	. . Bushing, Nylon	2	15	2300995W	Kit, U-Bolt	1
4	276043W	. . Bushing, Brass	1		-----	. U-Bolt	1
5	15030W	. Nut	1		-----	. Plate, Cup	1
6	2303105W	. Knob	1		-----	. Plate	1
7	196128W	. Pin	1		-----	. Washer	2
8	15135W	. Washer	1		-----	. Nut	2
9	190930W	. Ring, Snap	1	16	347020W	Cable, Control	1
10A	15155W	. Lockwasher	2	17	346523W	Bracket	1
10B	18515W	. Washer	2	18	16597W	Capscrew	4
11	332822W	. Cover	1	19	15156W	Lockwasher	4
12	16836W	. Capscrew	2	21	114312W	Tie, Cable	1

### Control Levers

Power Control Without Freespool  
Shantui SD16 (U46)

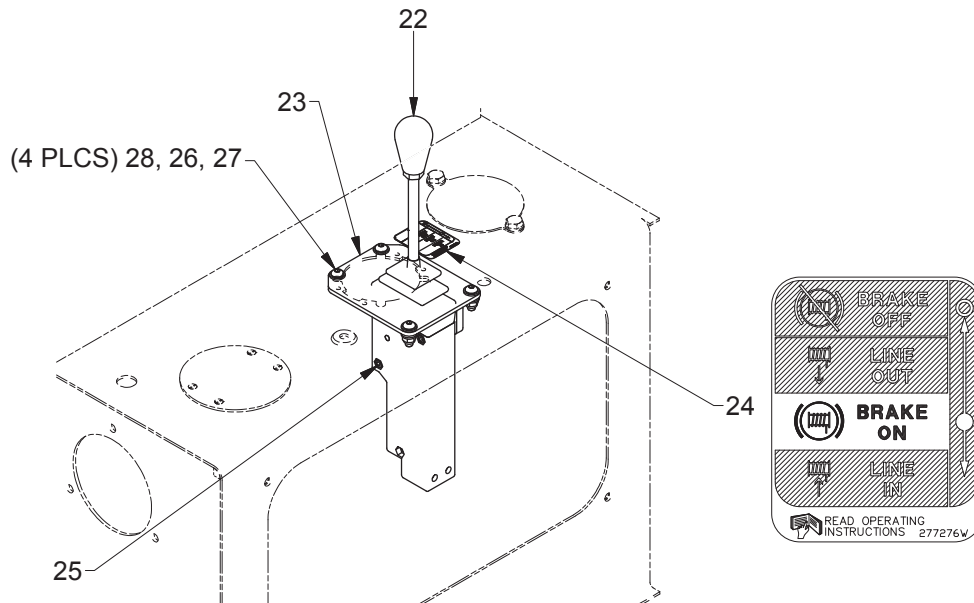
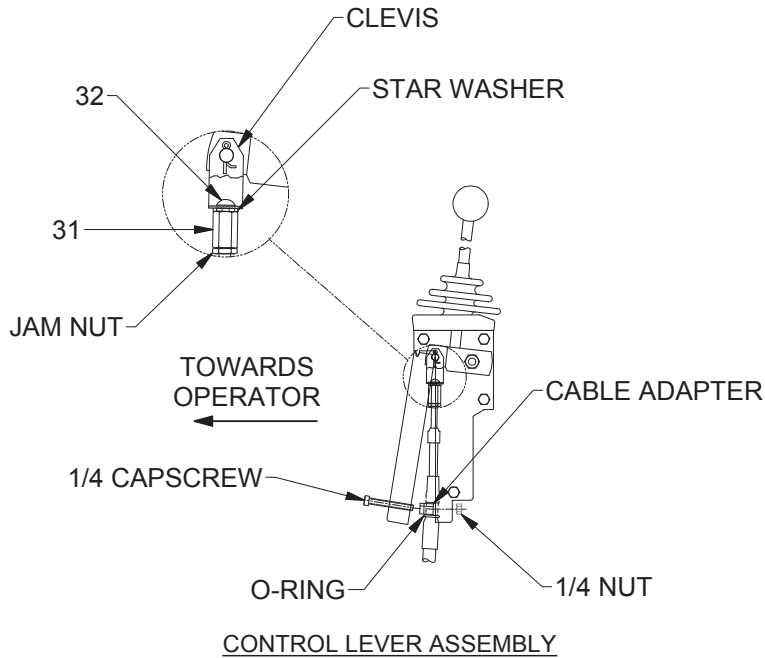


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2314419	Assembly, Control Lever (3-158)	1	21	*a 18717W	Capscrew	2
2	129563W	Tie, Cable	2	22	383881W	Nut, Tall	2
3	16828W	Capscrew	4	25	2301055W	Trim, Protective	1.5 ft.
4	15134W	Washer	4	26	303943W	Cable, Push/Pull Control	1
5	221707W	Nut	4				
6	277276W	Decal	1		*a	Uses 318702W Thread Lock	
8	15156W	Washer	4				



### Control Levers

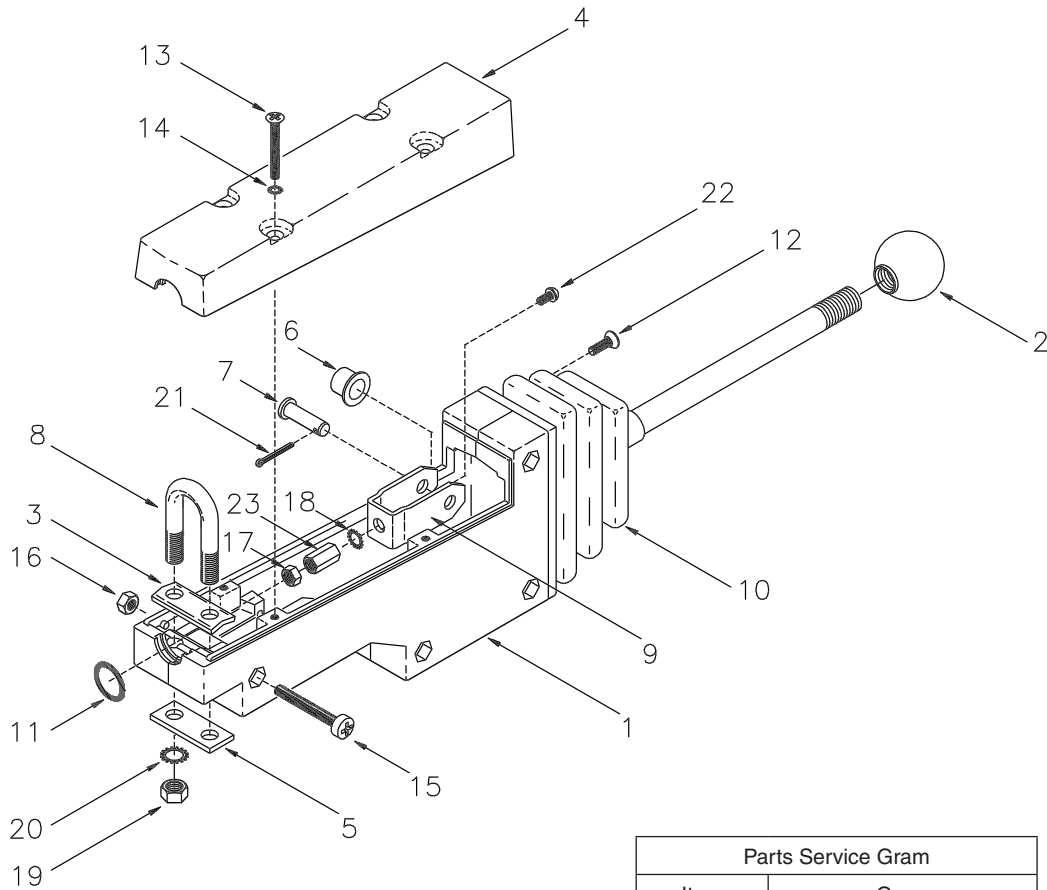
Power Control Without Freespool  
Zoomlion ZD160 (N46)



CONTROL LEVER INSTALLATION  
RIGHT CONSOLE VIEW

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
22	2303982W	Lever, Control (3-155)	1	27	296167W	Capscrew	4
23	2315519	Bracket, Control Lever	1	28	302400W	Nut	4
24	277276W	Decal, Control Lever, PFR W/FS	1	31	383881W	Nut, Tall	1
25	2304380W	Capscrew	3	32	18717W	Capscrew	1
26	296418W	Washer	8	33	303944W	Cable, Control (Not Shown)	1

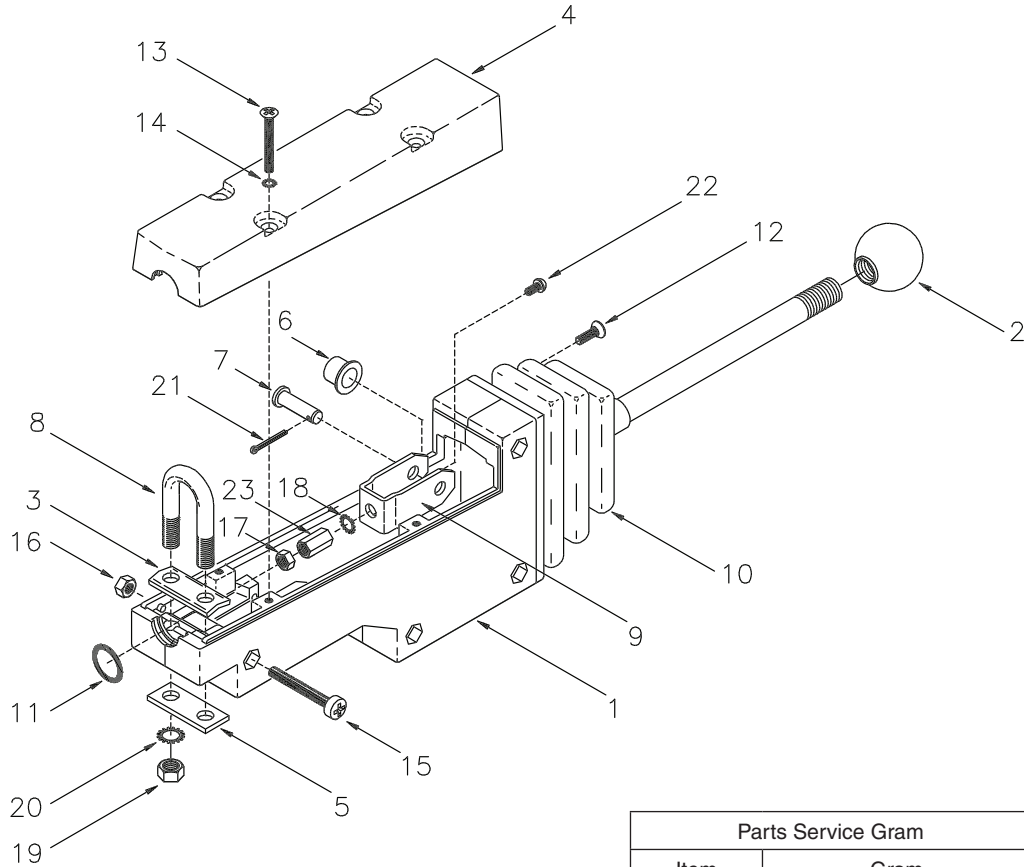
# Control Lever Assembly



Parts Service Gram	
Item	Gram
1300785W	Contact you dealer.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>1300785W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	NSS	. Housing	1	14	221867W	. Lockwasher	4
2	1302049W	. Knob	1	15	1306001W	. Screw	1
3	1302048W	. Clamp, Cable	1	16	15024W	. Nut, Jam	1
4	1302047W	. Cover	1	17	15004W	. Nut	1
5	1302046W	. Clamp, Base	1	18	15923W	. Washer	1
6	1302045W	. Bearing	2	19	15005W	. Nut	2
7	1302044W	. Pin, Clevis	1	20	15932W	. Lockwasher	2
8	1302043W	. U-Bolt	1	21	1302039W	. Pin	1
9	1302042W	. Clevis	1	22	*a 18717W	Capscrew, Button Head	1
10	1302041W	. Boot	1	23	*a 383881W	Nut, Tall	1
11	1302040W	. O-Ring	1				
12	1306003W	. Screw	4				
13	1306002W	. Screw	4				
				*a	Use 230064W Loctite Kit		

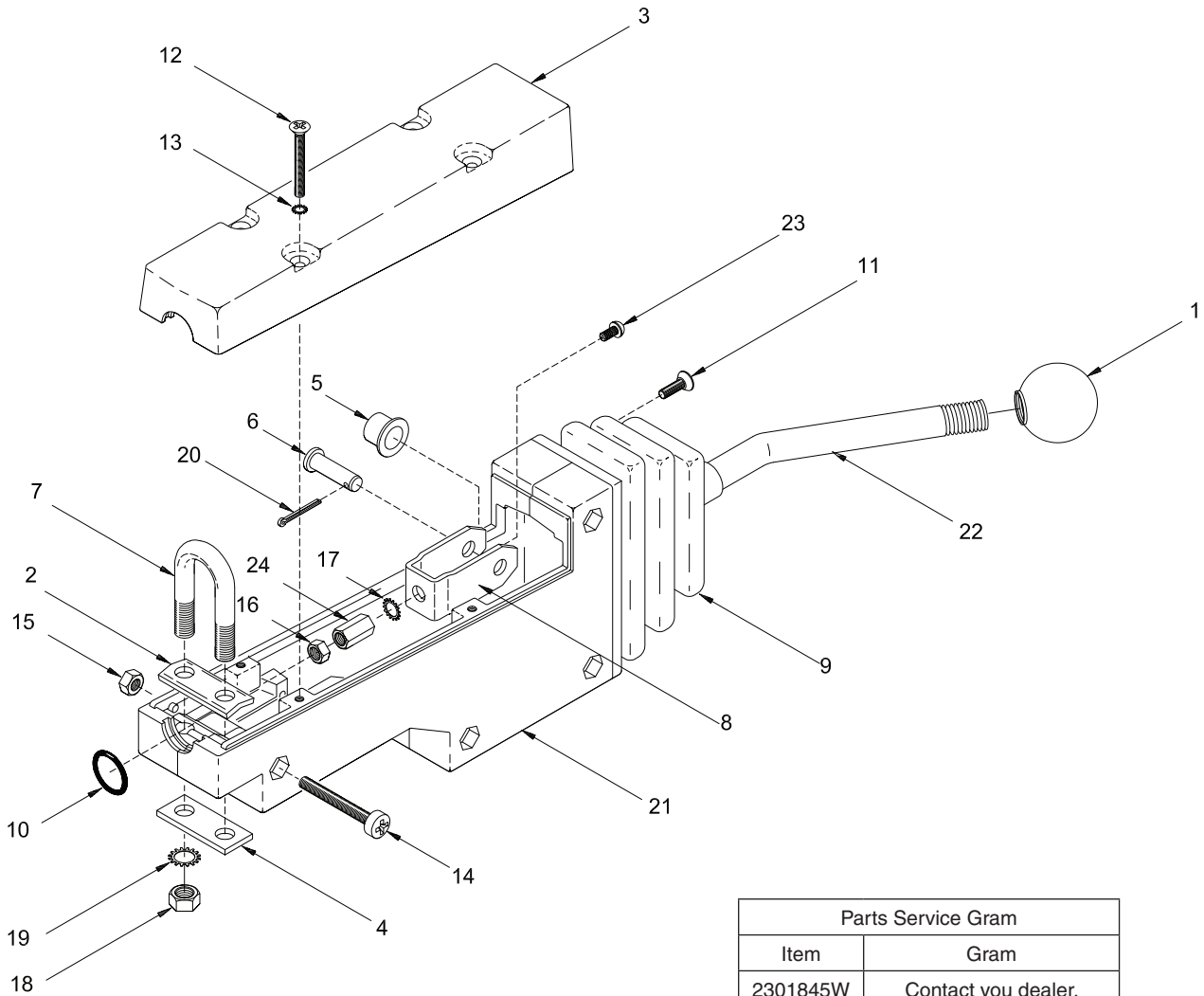
# Control Lever Assembly



Parts Service Gram	
Item	Gram
383880W	Contact you dealer.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>383880W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	NSS	. Housing	1	14	221867W	. Lockwasher	4
2	1302049W	. Knob	1	15	1306001W	. Screw	1
3	1302048W	. Clamp, Cable	1	16	15024W	. Nut, Jam	1
4	1302047W	. Cover	1	17	15004W	. Nut	1
5	1302046W	. Clamp, Base	1	18	15923W	. Washer	1
6	1302045W	. Bearing	2	19	15005W	. Nut	2
7	1302044W	. Pin, Clevis	1	20	15932W	. Lockwasher	2
8	1302043W	. U-Bolt	1	21	1302039W	. Pin	1
9	1302042W	. Clevis	1	22	*a 18717W	CapscREW	1
10	1302041W	. Boot	1	23	*a 383881W	Nut, Tall	1
11	1302040W	. O-Ring	1				
12	1306003W	. Screw	4				
13	1306002W	. Screw	4				
				*a	Uses 230064W Loctite Kit		

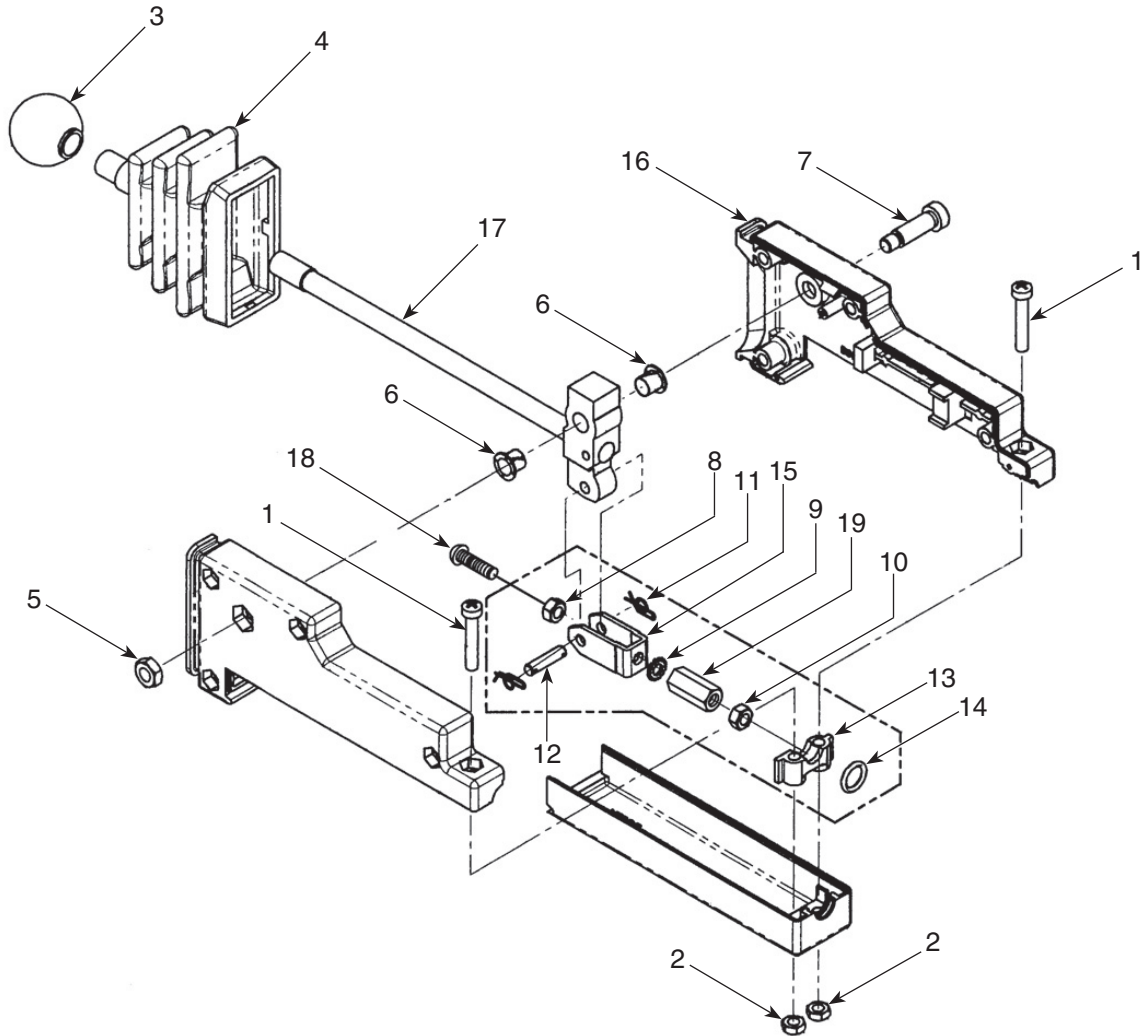
# Control Lever Assembly



Parts Service Gram	
Item	Gram
2301845W	Contact you dealer.

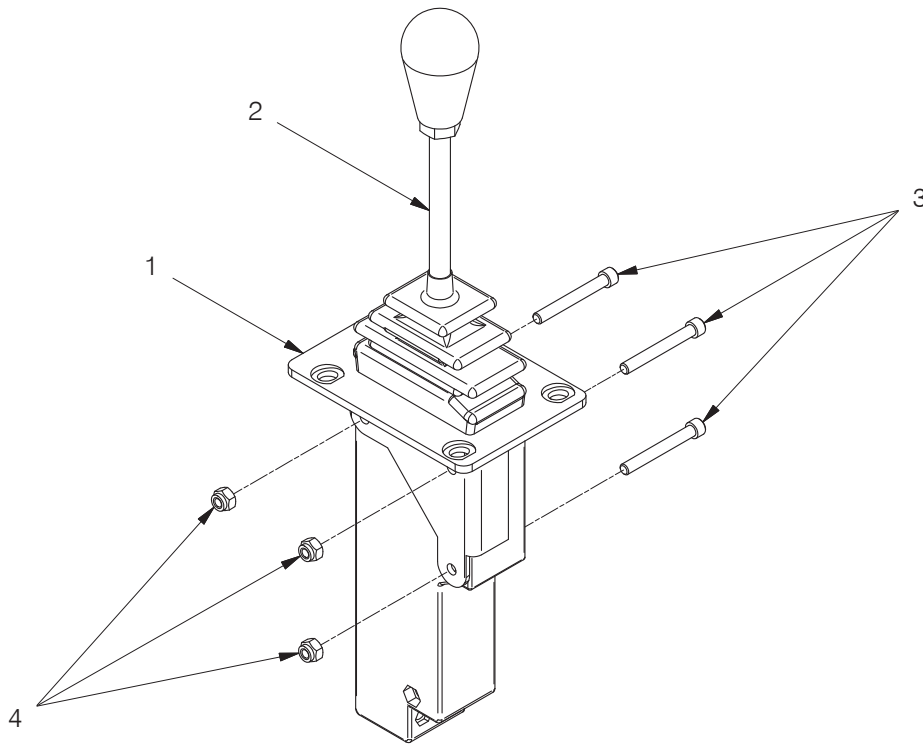
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2301845W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	1302049W	. Knob	1	14	1306001W	. Screw	1
2	1302048W	. Clamp, Cable	1	15	15024W	. Nut	1
3	1302047W	. Cover	1	16	15004W	. Nut	1
4	1302046W	. Clamp, Base	1	17	15923W	. Washer	1
5	1302045W	. Bearing	2	18	15005W	. Nut	2
6	1302044W	. Pin, Clevis	1	19	15932W	. Lockwasher	2
7	1302043W	. U-Bolt	1	20	1302039W	. Pin	1
8	1302042W	. Clevis	1	21	NSS	. Housing	1
9	1302041W	. Boot	1	22	NSS	. Lever	1
10	1302040W	. O-Ring	1	23	*a 18717W	Cap screw, Button Head	1
11	1306003W	. Screw	4	24	*a 383881W	Nut, Tall	1
12	1306002W	. Screw	4				
13	221867W	. Lockwasher	4		*a	Uses 230064W Loctite Kit	

# Control Lever Assembly



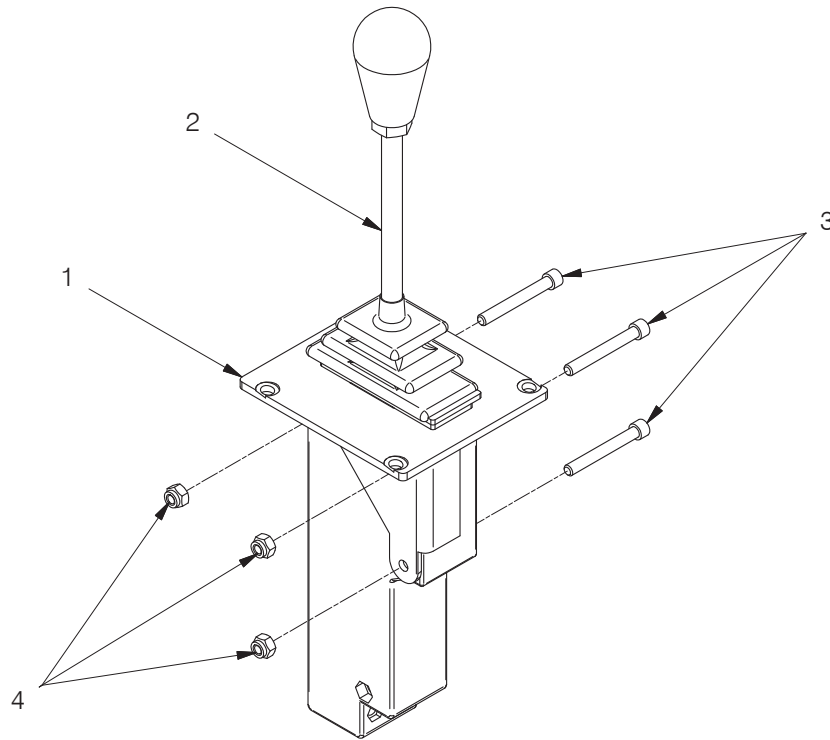
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	2303982W	Assembly, Control Lever	1				
	2303984W	Assembly, Control Lever	1				
	2303986W	Assembly, Control Lever	1				
	2304820W	Assembly, Control Lever	1				
	2306703W	Assembly, Control Lever	1				
	2306704W	Assembly, Control Lever	1				
	2307354W	Assembly, Control Lever	1				
	2307355W	Assembly, Control Lever	1				
	2311209	Assembly, Control Lever	1				
	2313339	Assembly, Control Lever	1				
1	*a	----- . Screw	2	13	*b	----- . Adapter, Cable	1
2	*a	----- . Nut	2	14	*b	----- . O-Ring	1
3		2304339W . Knob	1	15	*b	----- . Clevis	1
4		2304340W . Boot	1	16		NSS . Cover	1
5		2304341W . Nut, Jam	1	17		NSS . Lever	1
6		2304342W . Bearing, Plastic	2	18	*c	18717W . Capscrew, Button-Head	1
7		2304343W . Screw, Shoulder	1	19		383881W . Nut, Tall	1
8	*b	----- . Nut	1	20		2304604W . Cover	1
9	*b	----- . Washer	1				
10	*b	----- . Nut	1				
11	*b	----- . Pin, Cotter	2				
12	*b	----- . Pin	1				
					*a	Included in 2304338W Hardware Kit	
					*b	Included in 2305023W Cable Attaching Hardware Kit	
					*c	Use 318702W Thread Lock	

**Control Lever Assembly**



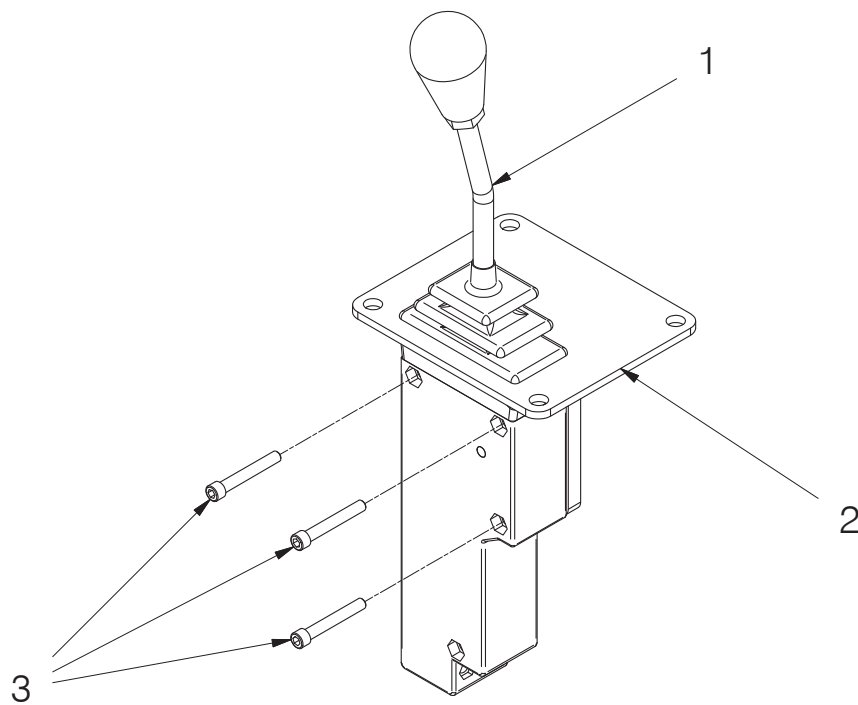
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2304557W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2304552W	. Bracket, Control Lever	1	4	15113W	. Nut	3
2	2303982W	. Lever, Control (3-155)	1	5	280472W	. Adhesive Sealant (Not Shown)	AR
3	18127W	. Capscrew	3				

**Control Lever Assembly**



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2305202W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2305201W	. Bracket, Control Lever	1	4	15113W	. Nut	3
2	2303982W	. Lever, Control (3-155)	1	5	280472W	. Adhesive Sealant (Not Shown)	AR
3	18127W	. Capscrew	3				

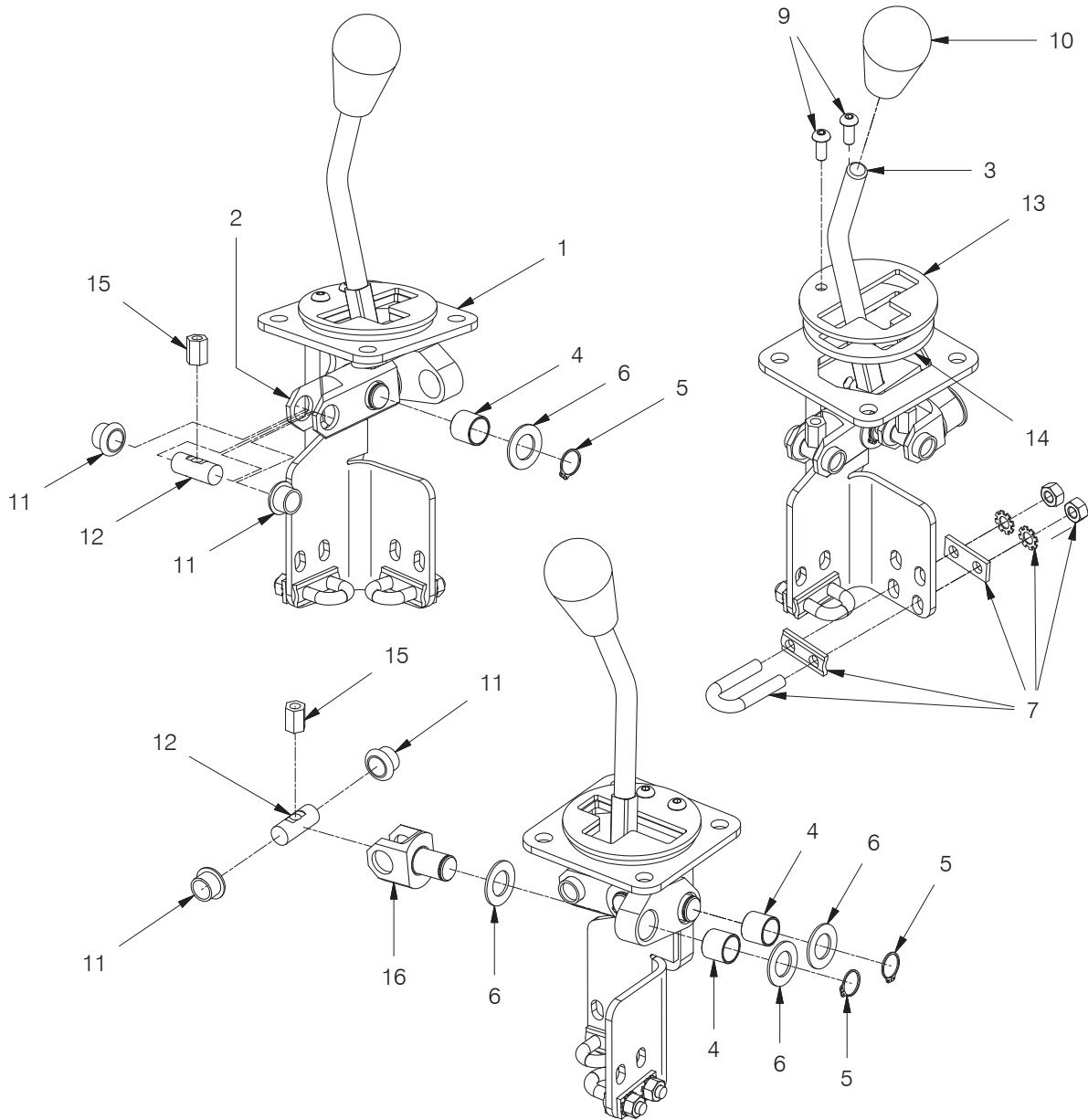
**Control Lever Assembly**



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2314419</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2303986W	. Lever, Control (3-155)	1	3	2304380W	. Capscrew	3
2	2314425	. Bracket, Control Lever	1				

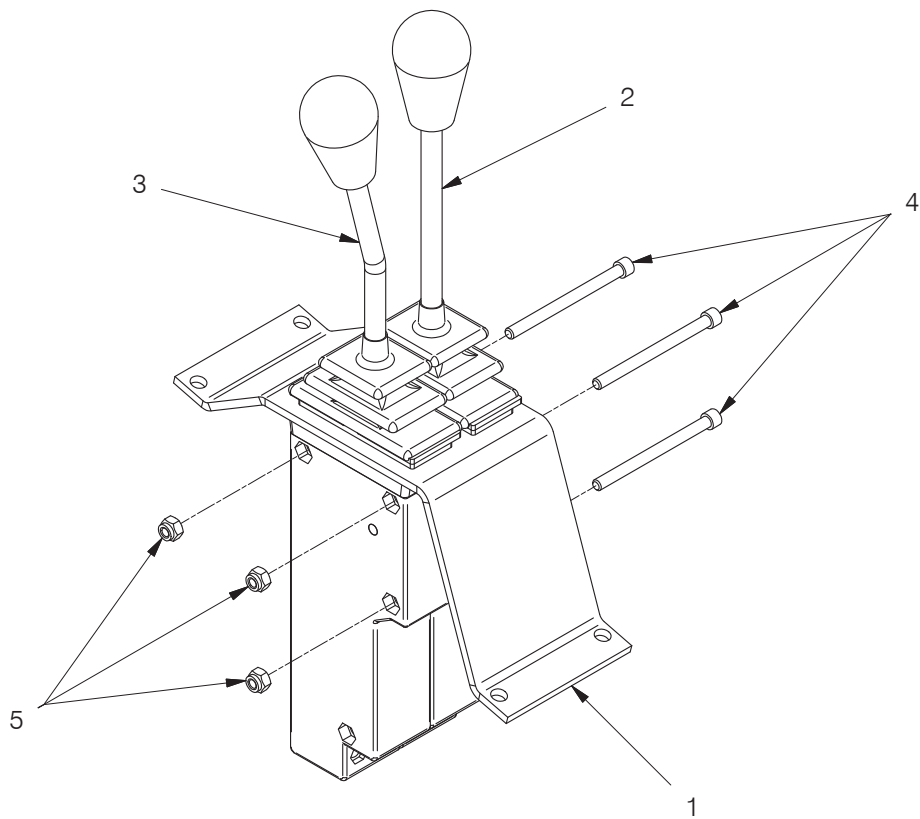


# Control Lever Assembly



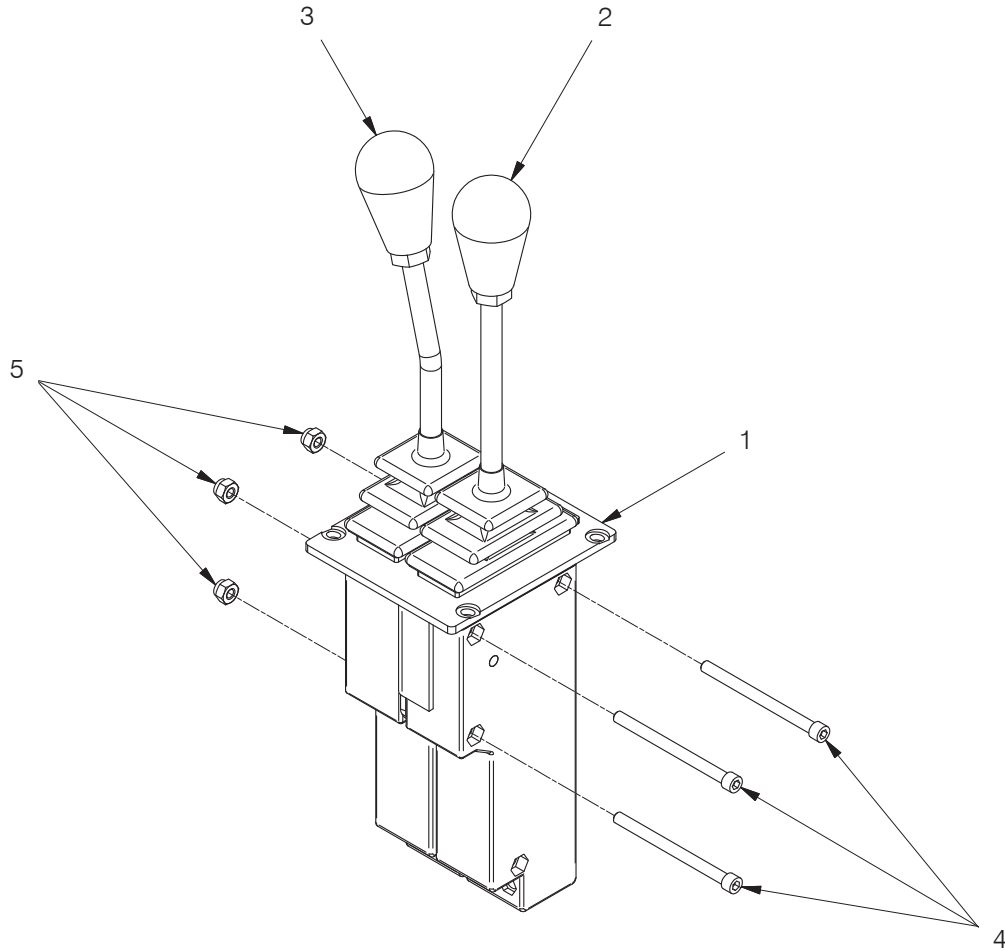
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2310118</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2312189	. Bracket, Control Lever	1	10	2304339W	. Knob	1
2	2305296W	. Pivot, Main	1	11	*a 2307974W	. Bushing, Modified	4
3	2310117	. Bracket, Pivot	1	12	*a 196128W	. Pin	2
4	2305302W	. Bushing	3	13	2312188	. Plate, Gate	1
5	58903W	. Ring, Snap	3	14	2312232	. Plate, Spacer	1
6	2301634W	. Washer, Thrust	6	15	2301487W	. Nut, Tall	2
7	2300995W	. Kit, U-bolt	2	16	2305301W	. Pivot, Aux.	1
8	228131	. Boot (Not Shown)	1				
9	Y25G-0410	. Capscrew	2		*a	Uses 257291W Adhesive	

**Control Lever Assembly**



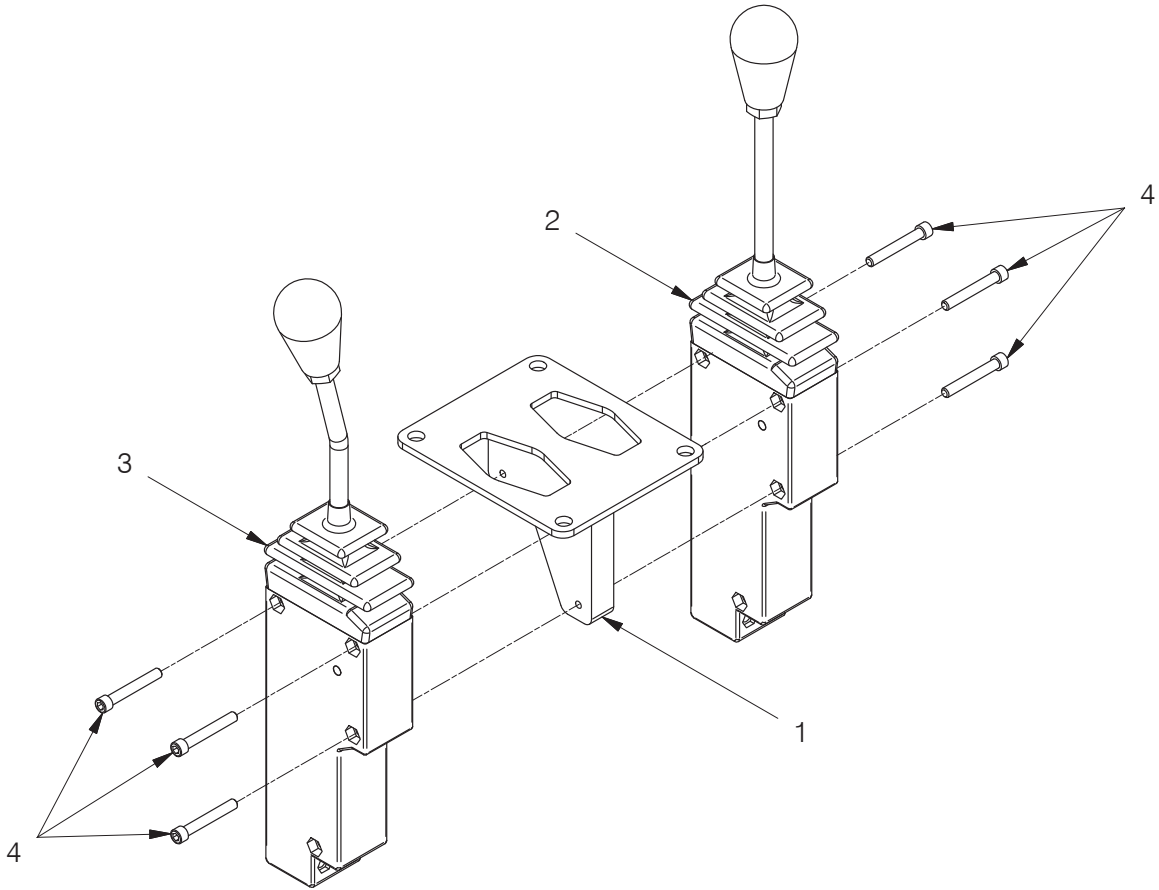
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2304807W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2304806W	. Bracket, Control Lever	1	4	2304878W	. Capscrew	3
2	2303982W	. Lever, Control (3-155)	1	5	15113W	. Nut	3
3	2303986W	. Lever, Control (3-155)	1				

**Control Lever Assembly**



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2304899W</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2304898W	. Bracket, Control Lever	1	4	2304878W	. Capscrew	3
2	2303982W	. Lever, Control (3-155)	1	5	15113W	. Nut	3
3	2303986W	. Lever, Control (3-155)	1	6	280472W	. Adhesive Sealant (Not Shown)	AR

Control Lever Assembly

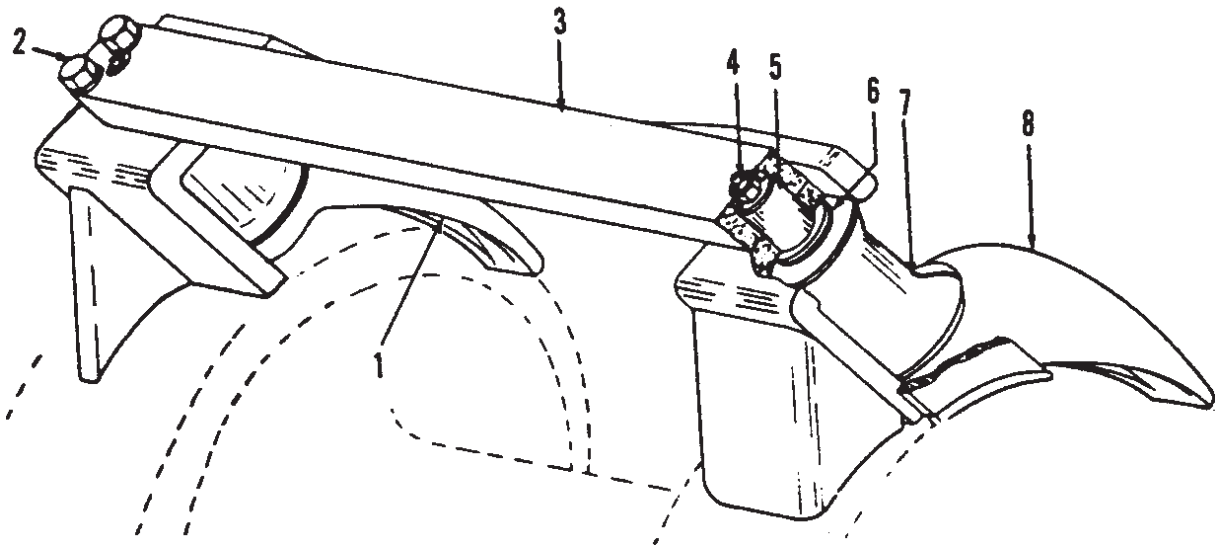


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2313536</b>	<b>Assembly, Control Lever</b>	<b>1</b>				
1	2304304W	. Bracket, Control Lever	1	3	2303986W	. Lever, Control (3-155)	1
2	2303982W	. Lever, Control (3-155)	1	4	2304380W	. Capscrew	6

## Options

Arch.....	4-7 thru 4-9
Fairlead.....	4-3 thru 4-6
Wire Rope Assemblies.....	4-10
Wire Rope Guide Rollers.....	4-2

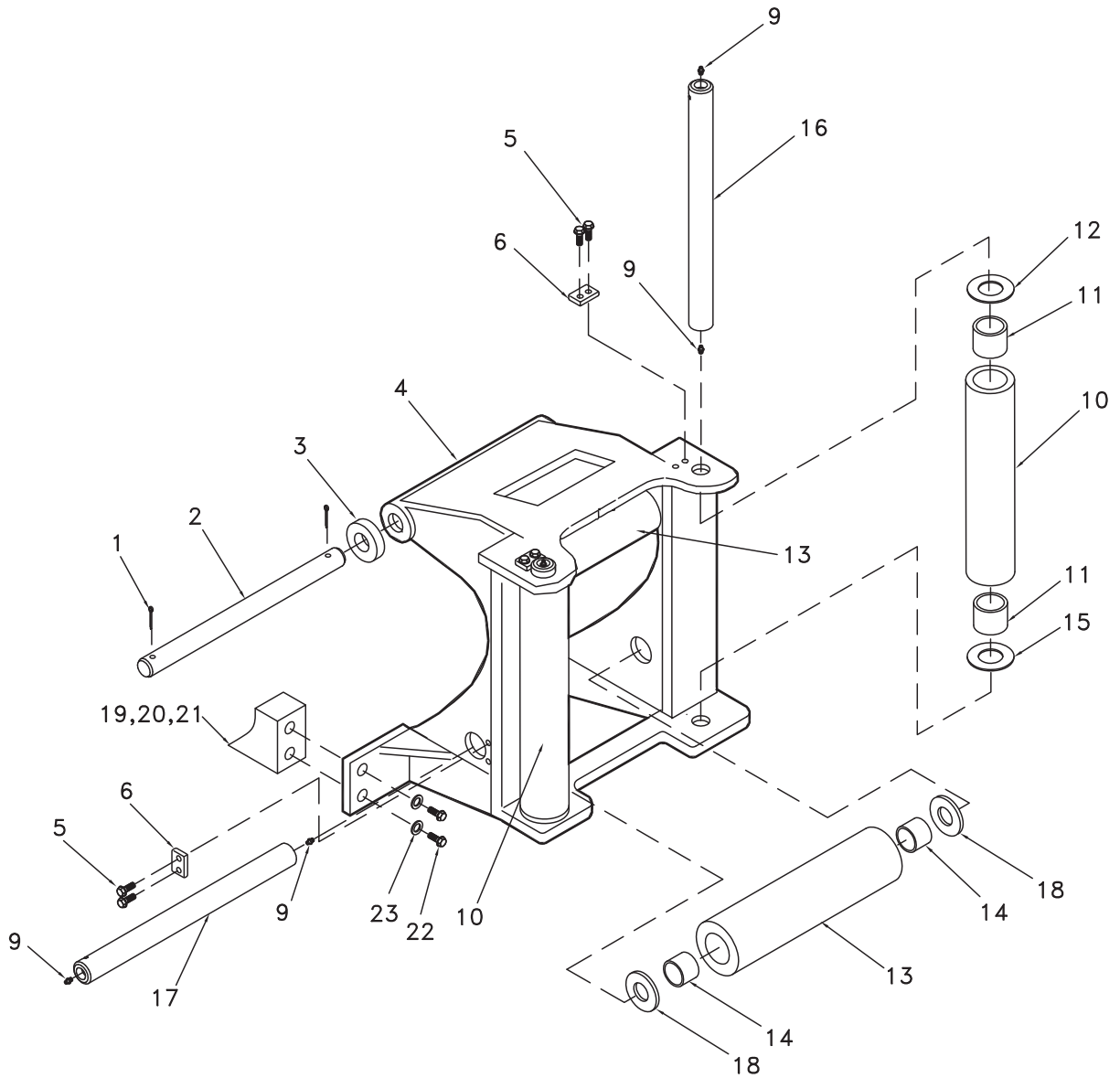
Wire Rope Guide Rollers



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	95883W	Bracket, RH	1	5	95669W	Pin, Roller	2
2	16645W	Capscrew	4	6	95668W	Washer	6
2	15160W	Lockwasher	4	7	95666W	Roller	2
3	95898W	Guard	1	7	35135W	Bushing	4
4	16006W	Fitting, Grease	2	8	NSS	Bracket, LH	1

**Fairlead**

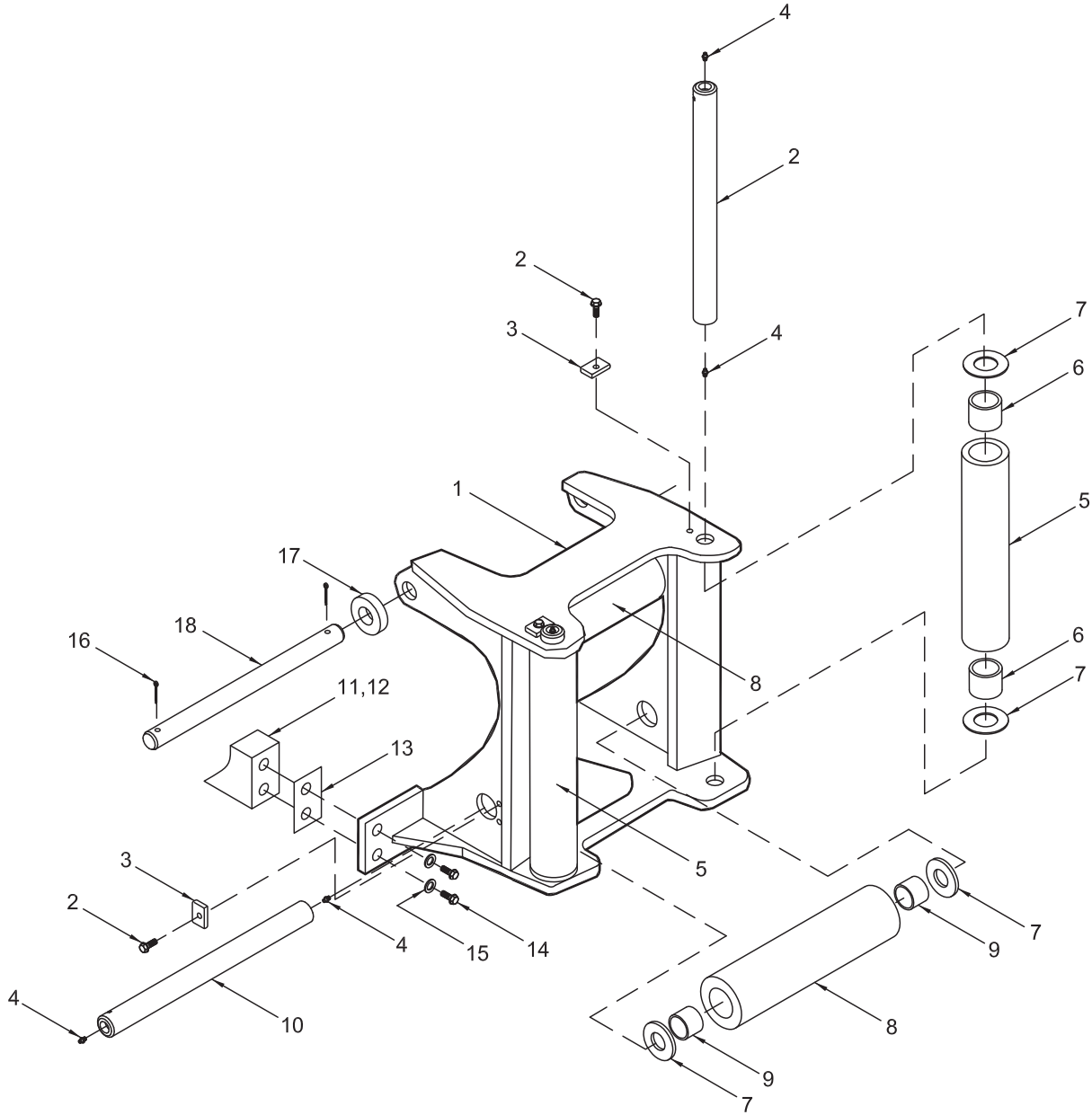
Last Used on AW6F-4267



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	15272W	Pin, Cotter	2	14	59419W	. Bushing	2
2	196280W	Rod, Tie	1	15	230336W	Bearing, Thrust	2
3	173607W	Spacer	2	16	96087W	Shaft	2
4	152995W	Frame	1	17	96086W	Shaft	2
5	398817W	Screw, Flange	8	18	92720W	Washer	4
6	93166W	Keeper	4	19	143292W	Bracket, RH Side	1
9	16001W	Fitting, Grease	8	20	226374W	Bracket, LH Side	1
10	36206W	Roller, Vertical	2	21	93878W	Shim .134	AR
11	2570W	. Bushing	2	22	18669W	Capscrew	4
12	33394W	Washer	2	23	15166W	Lockwasher	4
13	92212W	Roller	2				

# Fairlead

Used on AW6F-4268 through AW6F-4431



Key  
 A - 3-Roller Fairlead  
 B - 4-Roller Fairlead

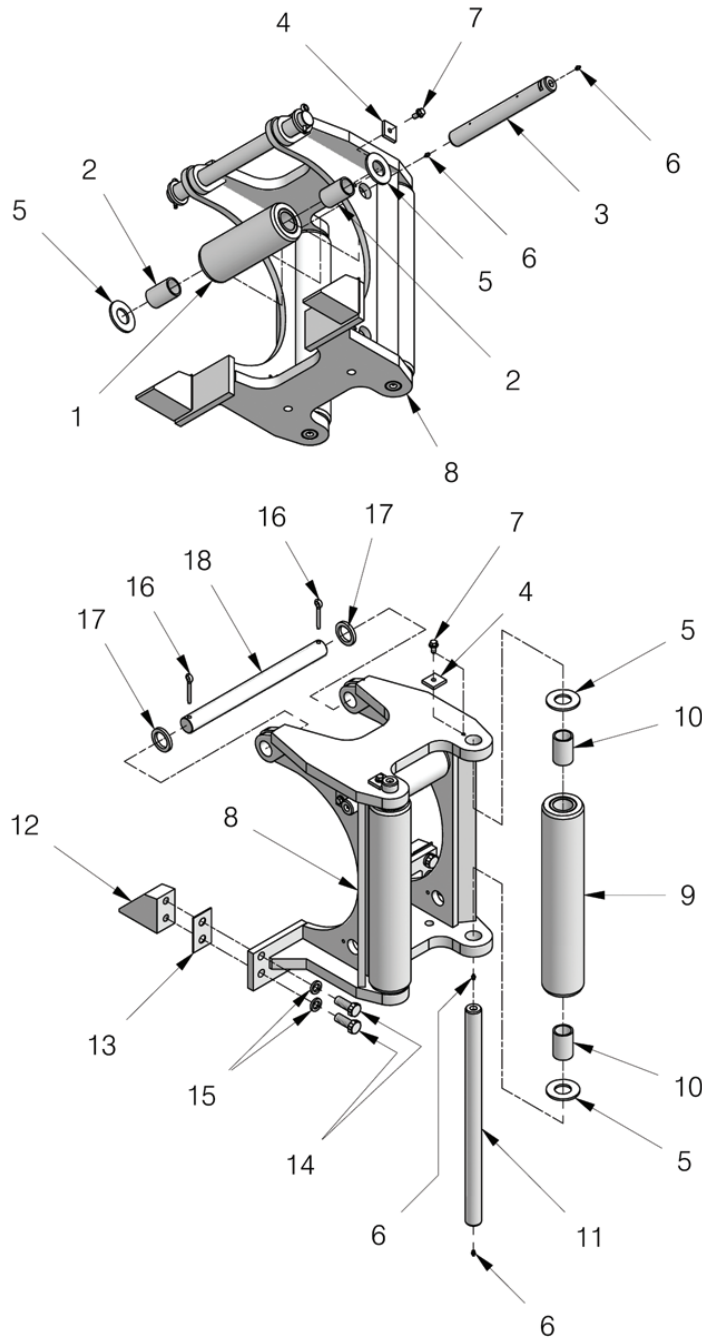
Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
	<b>2301731W</b>	<b>Fairlead Assembly, 3-Roller</b>	<b>1</b>	<b>--</b>					
	<b>2301732W</b>	<b>Fairlead Assembly, 4-Roller</b>	<b>--</b>	<b>1</b>					
1	2301718W	. Frame	1	1	12	*a 226374W	Bracket, LH Side	1	1
2	398817W	. Screw, Flange	3	4	12	*b 143292W	Bracket, LH Side	1	1
3	2301706W	. Keeper	3	4	13	93878W	Shim	AR	AR
4	16001W	. Fitting, Lube	6	8	14	18669W	Cap screw	4	4
5	2301726W	. Roller	2	2	15	15166W	Washer	4	4
6	2570W	. Bushing	2	2	16	15272W	Pin, Cotter	2	2
7	33394W	. Washer	6	8	17	173607W	Spacer	2	2
8	2301727W	. Roller	1	2	18	196280W	Bar, Tie	1	1
9	2570W	. Bushing	2	2					
10	2301722W	. Shaft	1	2					
11	143292W	Bracket, RH Side	1	1					
					*a	For Power Controlled Winches Only			
					*b	For Direct Drive Controlled Winches Only			



# Fairlead

3-Roller

First Used on S/N AW6F-4432

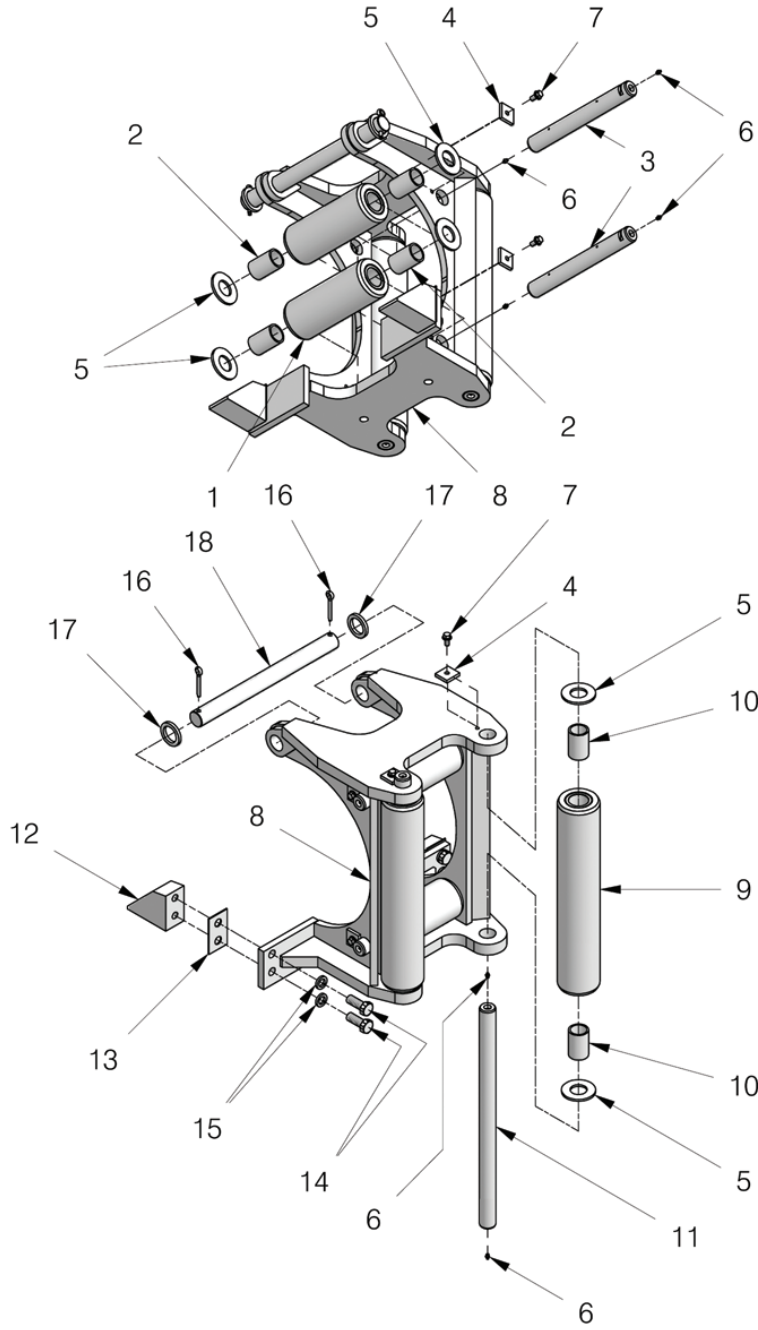


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2301731W</b>	<b>Fairlead Assembly, 3-Roller</b>					
1	2301727W	. Roller	1	10	2570W	. . Bushing	4
2	2570W	. . Bushing	2	11	2301721W	. Shaft	2
3	2301722W	. Shaft	1	12	226374W	Bracket	2
4	2301706W	. Keeper	3	13	93878W	Shim. 134	AR
5	33394W	. Washer	6	14	18668W	Capscrew	4
6	16001W	. Fitting, Grease	6	15	15166W	Washer	4
7	398817W	. Screw, Flange	3	16	15272W	Pin, Cotter	2
8	2301718W	. Fairlead	1	17	2312437	Spacer	2
9	2301726W	. Roller	2	18	2312580	Rod, Tie	1

# Fairlead

4-Roller

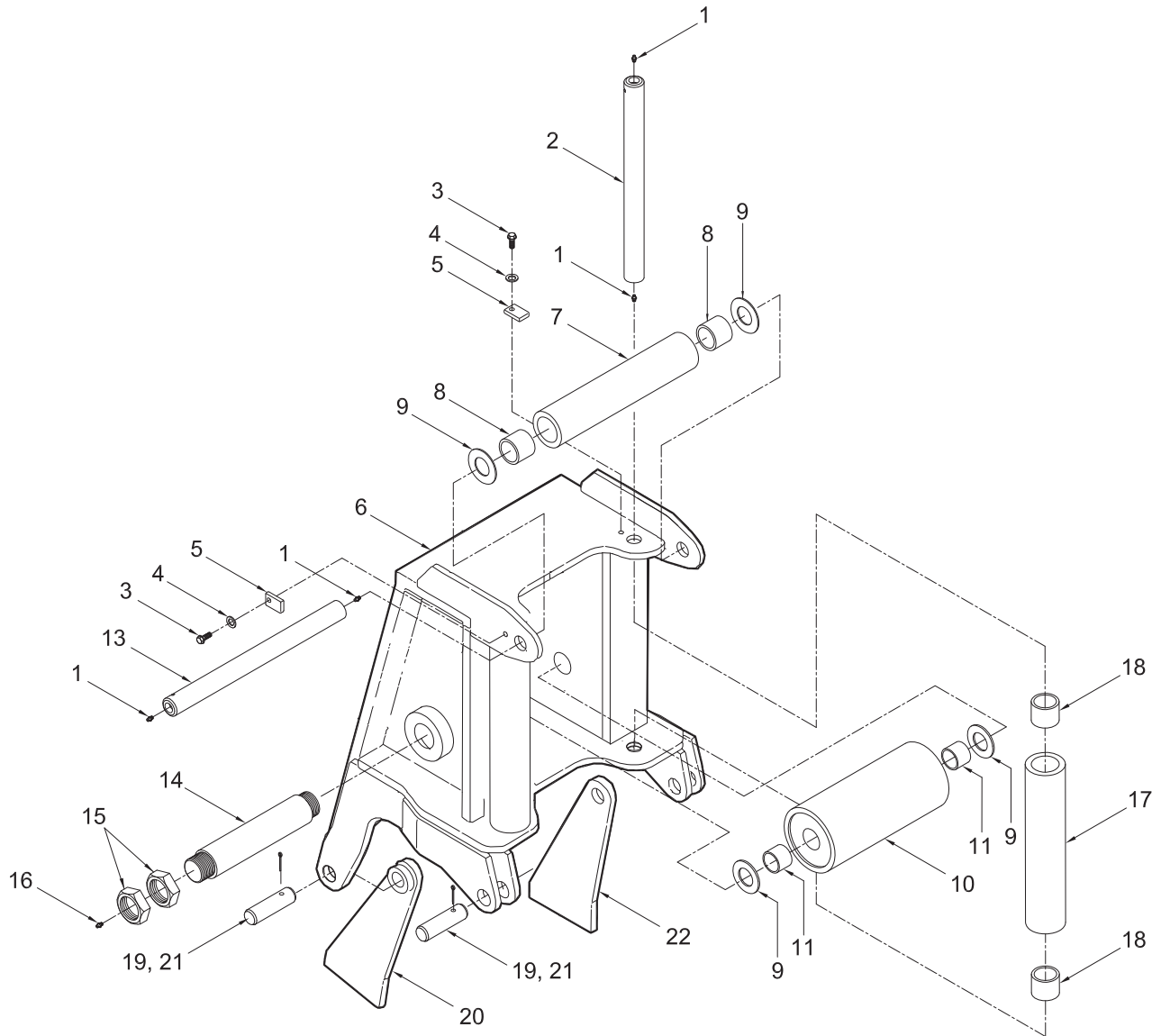
First Used on S/N AW6F-4432



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2301732W</b>	<b>Fairlead Assembly, 4-Roller</b>					
1	2301727W	. Roller	2	10	2570W	. Bushing	4
2	2570W	. Bushing	4	11	2301721W	. Shaft	2
3	2301722W	. Shaft	2	12	226374W	Bracket	2
4	2301706W	. Keeper	4	13	93878W	Shim .134	AR
5	33394W	. Washer	8	14	18668W	Capscrew	4
6	16001W	. Fitting, Grease	8	15	15166W	Washer	4
7	398817W	. Screw, Flange	4	16	15272W	Pin, Cotter	2
8	2301718W	. Fairlead	1	17	2312437	Spacer	2
9	2301726W	. Roller	2	18	2312580	Rod, Tie	1

### Arch - 4 Rollers

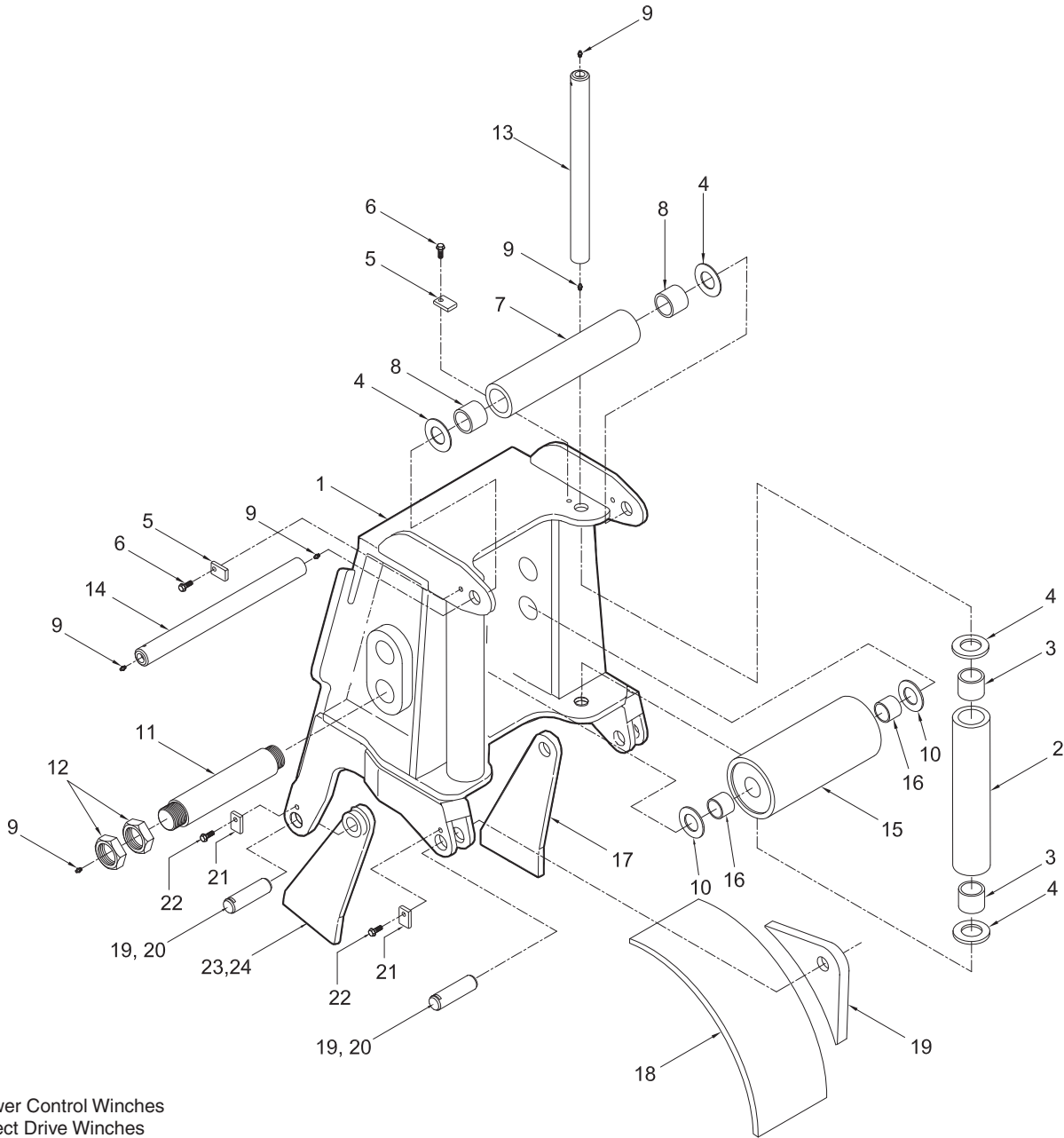
Used on AW6F-4346 & Below and AW6F-4351



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	16001W	Fitting, Grease	6	13	331756W	Shaft	1
2	331751W	Shaft	2	14	2300521W	Shaft	1
3	18601W	Cap screw	3	15	221336W	Nut	4
4	15160W	Lockwasher	3	16	16002W	Fitting, Grease	2
5	31541W	Plate, Lock	3	17	331750W	Roller	2
6	328718W	Frame, Arch	1	18	35135W	. Bushing	4
7	331752W	Roller	1	19	15273W	Pin, Cotter	8
8	35135W	. Bushing	2	20	328744W	Plate, LH (Power Control Winches)	1
9	331767W	Washer	6	20	328746W	Plate, LH (Direct Drive Winches)	1
10	2816W	Roller	1	21	328748W	Pin	4
11	2817W	. Bushing	2	22	328740W	Plate, RH	1
12	2821W	Washer	2				

### Arch - 4 Rollers

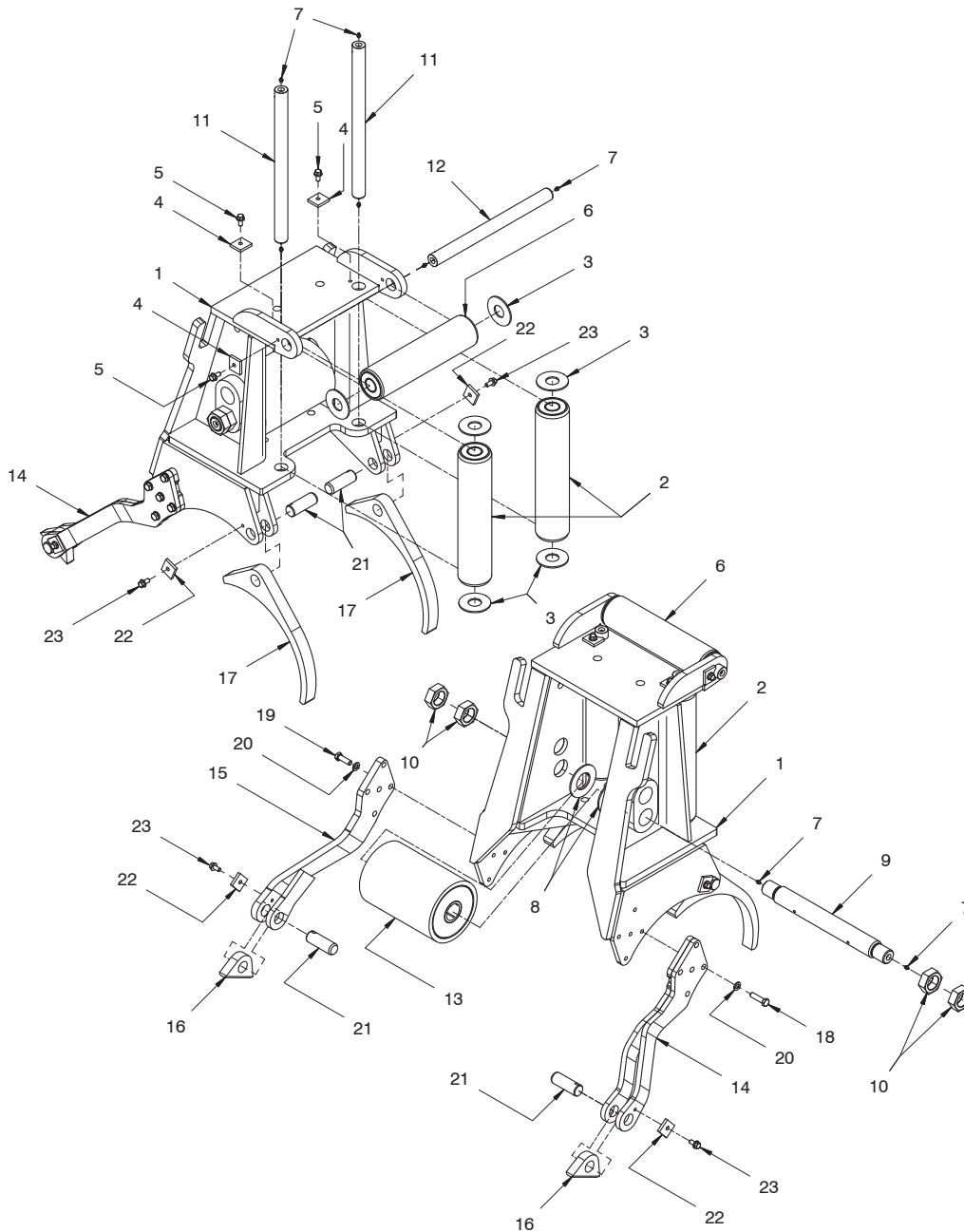
Used on AW6F-4347 thru 4349 and AW6F-4352 & Up



Key  
 A - Power Control Winches  
 B - Direct Drive Winches

Item	Part No.	Description	Qty		Item	Part No.	Description	Qty	
			A	B				A	B
	<b>2301748W</b>	<b>Arch Assembly</b>	<b>1</b>	<b>1</b>					
1	2301749W	. Arch	1	1	14	2301919W	. Shaft	1	1
2	2301907W	. Roller	2	2	15	2301925W	. Roller	1	1
3	35135W	. Bushing	2	2	16	2817W	. Bushing	2	2
4	331767W	. Washer	6	6	17	328740W	Ear, RH Side	1	1
5	2301706W	. Keeper	3	3	18	328747W	Plate, Wrapper	2	2
6	398817W	. Flange, Screw	3	3	19	339496W	Lug	2	2
7	2301910W	. Roller	1	1	20	2301924W	Pin	4	4
8	35135W	. Bushing	2	2	21	2301706W	Keeper	4	4
9	16001W	. Fitting, Grease	8	8	22	398817W	Screw, Flange	4	4
10	2821W	. Washer	2	2	23	328744W	Ear, LH Side	1	--
11	2302120W	. Shaft	2	2	23	328746W	Ear, LH Side	--	1
12	221336W	. Nut	4	4	24	328749W	Plate	--	1
13	2301920W	. Shaft	2	2					

### Arch - 4 Rollers Caterpillar 527 (C40)



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	<b>2307584W</b>	<b>Arch Assembly</b>	<b>1</b>				
1	2307569W	. Arch Frame	1	12	2301919W	. Shaft	1
2	2301907W	. Roller	2	13	2301925W	. Roller	1
2	35135W	. . Bushing (Not Shown)	2	13	2817W	. . Bushing (Not Shown)	2
3	331767W	. Washer	6	14	2307589W	Mounting, LH Side	1
4	2301706W	. Keeper	3	15	2307590W	Mounting, RH Side	1
5	398817W	. Screw, Flange	3	16	2307581W	Bracket Eye, Winch	2
6	2301910W	. Roller	1	17	2306380W	Lug	2
6	35135W	. . Bushing (Not Shown)	2	18	Y19C-M1660	Capscrew	5
7	16001W	. Lube, Threaded	8	19	Y19C-M1650	Capscrew	5
8	2821W	. Washer	2	20	296426W	Washer	10
9	2302120W	. Shaft, Horizontal	1	21	2301924W	Pin	4
10	221336W	. Nut	4	22	2301706W	Keeper	4
11	2301920W	. Shaft	2	23	398817W	Screw	4

Wire Rope Assemblies

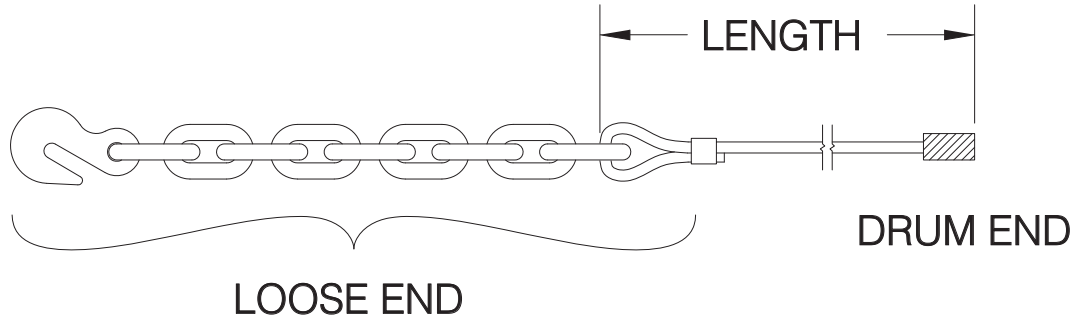


Figure A

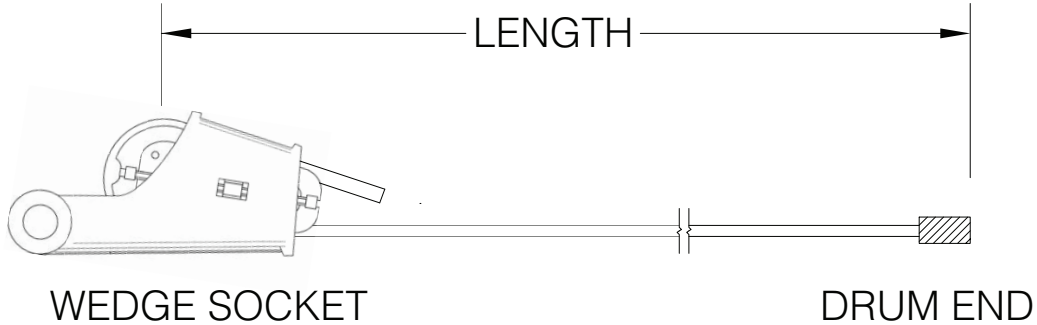


Figure B

Part No.	Wire Diameter	Length Ft (M)	Part No.	Wire Diameter	Length Ft (M)
WR6-263L	*a 3/4"	263 (80) *	YSB-210L WS	*b 1"	210 (64) **
WR6-399L	*a 3/4"	399 (122) **			
WR7-189L	*a 7/8"	189 (58) *			
WR7-287L	*a 7/8"	287 (87) **			
WR8-100L	*a 1"	100 (30) *			
WR8-147L	*a 1"	147 (45) *			
WR8-223L	*a 1"	223 (68) **			

\* Length to fill drum to 2/3 capacity (recommended)  
 \*\* Length to fill drum to full capacity  
 \*a WR Series Wire Rope (Illustrated in Figure A)  
 \*b YS Series Wire Rope (Illustrated in Figure B)

## Recommended Service Kits

Recommended Winch Service Intervals . . . . .	5-2
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## Recommended Winch Service Intervals

Allied Systems Company is pleased to announce an additional tool to keep your customer's winch serviced and functioning properly. Following this recommended service schedule will help keep tractor winch downtime

to a minimum, optimize winch operation, and extend the life of your investment. See Table 1 on this page for recommended service intervals, and Table 2 on the next page for recommended service kits.

PTO Winch Maintenance

Recommended Winch Service Intervals

Hours or **	Months **	Filter ***	Winch Gear Oil	Brake & Clutch	Major Overhaul
First 250	1	Change			
Every 500	3	Change			
Every 1,000	6		Change		
Every 5,000				* Inspect	
Every 10,000					* Evaluate

Lube rollers and check oil level and filter light weekly.

\* Evaluate = Service based on average winch use;  
 - if used more than once a day, perform overhaul.  
 - if used less than once a day, remove covers and check to determine need.

\* Inspect = Disassemble and inspect for wear.

\*\* Service winch using the tractor's hour meter or the length of time the winch is mounted to the tractor, whichever occurs first.

\*\*\* Follow tractor schedule if using tractor filter.

IMPORTANT - For best Load Control  
Use only the following oils:

Caterpillar    -Multipurpose Tractor Oil (MTO)

John Deere    -Hy-Gard

ExxonMobil    -Mobil Fluid 424 (Factory Fill)

Chevron        -1000 THF



Consult service/operating manual for low temperature oils and other details. Use of non-approved oil may void warranty.



2311481 Rev C

Table 1 Recommended Winch Service Intervals



## Recommended Winch Service Kits

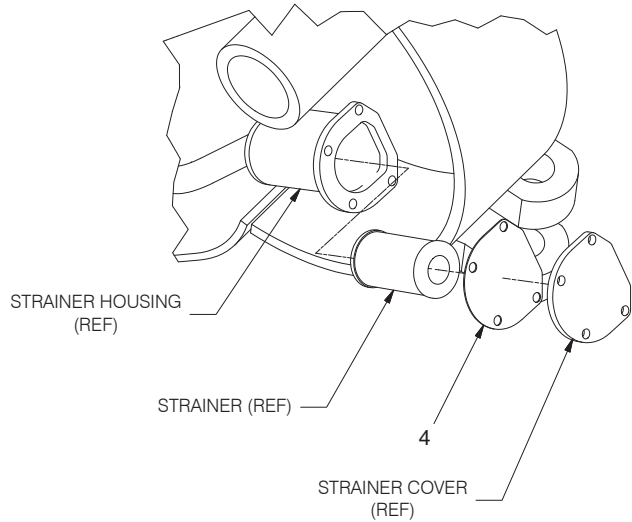
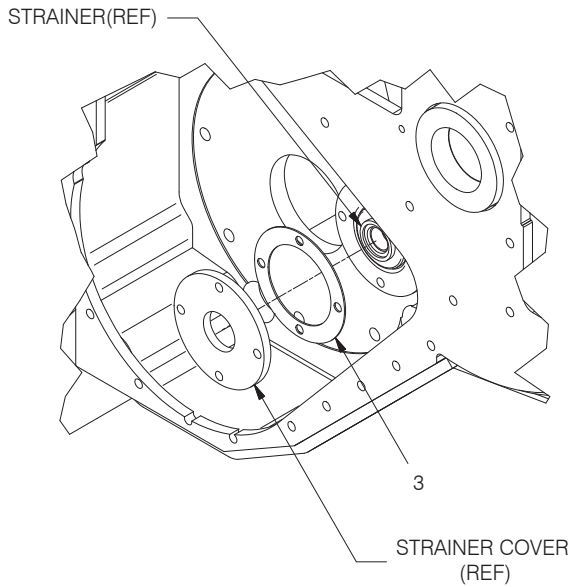
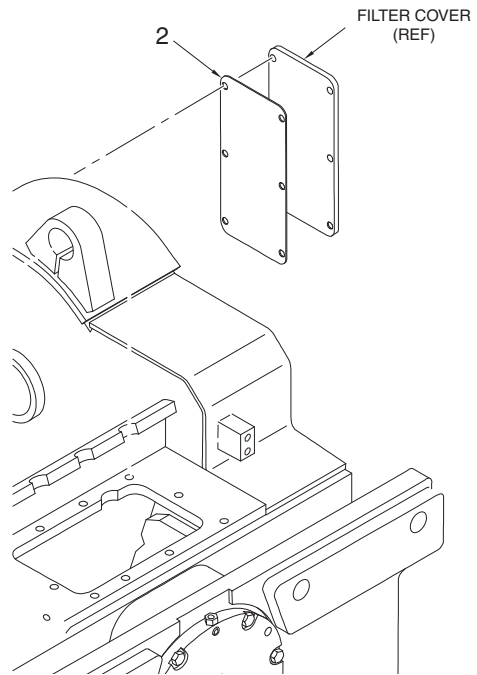
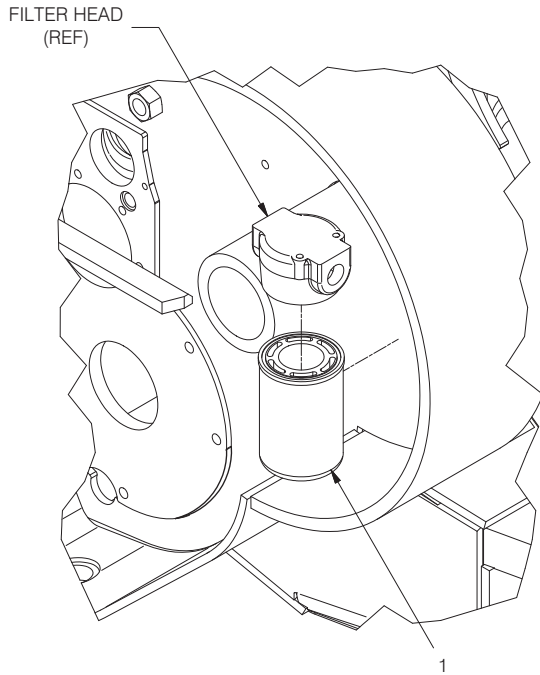
SERVICE KITS FOR W6F WINCHES				
Service Description	Kit Description	Winch Serial Number	Kit Part No. for Winches with Power Controls (P)	Kit Part No. for Winches with Direct Drive (X)
Filter Change (First 250, then every 500 Hours)	Filter Kit	Last used W6F-2112 and AW6F-1000	2311384	N/A
		Used W6F-2113 thru AW6F-4454	2311385	
		First Used AW6F-4455	2311167	
Complete Oil Change (Every 1000 hours)	-N/A-	ALL	Check our Website for Current Operator's and Service Manuals for Appropriate Oils	
Clutch and Brake Overhaul (Every 5000 hours)	Gasket Kit	ALL	267494W	201871W
	Brake & Bevel Gear/Clutch Shaft Kit*	Last used W6F-2000	N/A	2311721
		First used W6F-2001 and AW6F-1001	2311378	
	Brake Assembly Kit	ALL	2311377	N/A
	Pump Assembly	Last used AW6F-4321	Order quantity 1 of each of the following: 2302963W 2303677W 88297W 271729W	
First used AW6F-4322		2302963W		
Major Overhaul (Every 10000 hours)	Brake & Bevel Gear/Clutch Shaft Bearing Kit	ALL	2311379	2311722
	Drum & Intermediate Shaft Bearing and Seal Kit ( <i>Non Freespool Winch</i> )	ALL	2311383	
	Drum & Intermediate Shaft Bearing and Seal Kit ( <i>Freespool Winch</i> )	Please refer to pages 2-42 & 2-43 of W6F Parts Manual	2311381 or 2311382	

\* Services both clutches if power controlled. Includes all parts necessary on the clutch shaft; dropbox and PTO bearings and seals must be ordered separately.

**Table 2 Routine Winch Maintenance Kits**

**Filter Kit: 2311384**

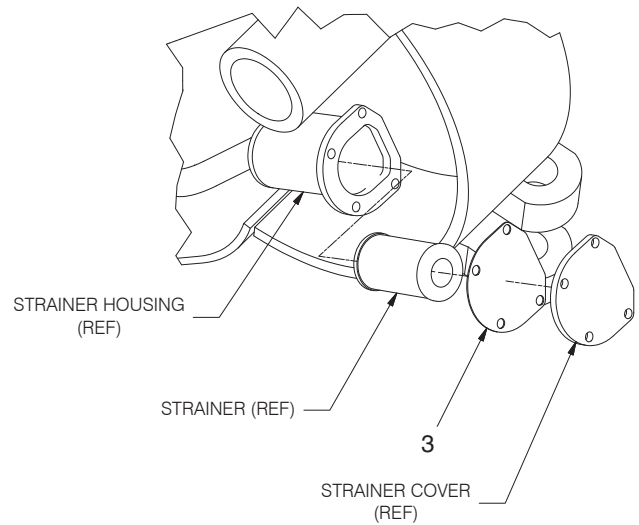
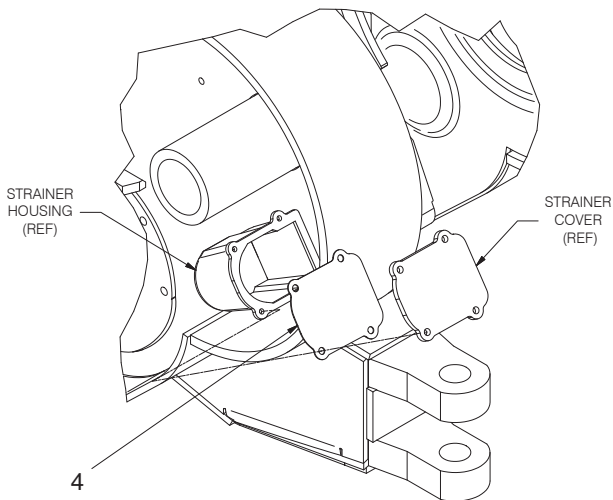
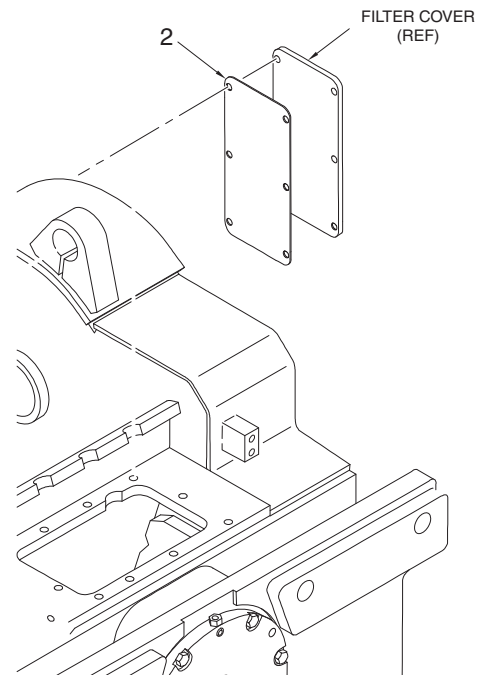
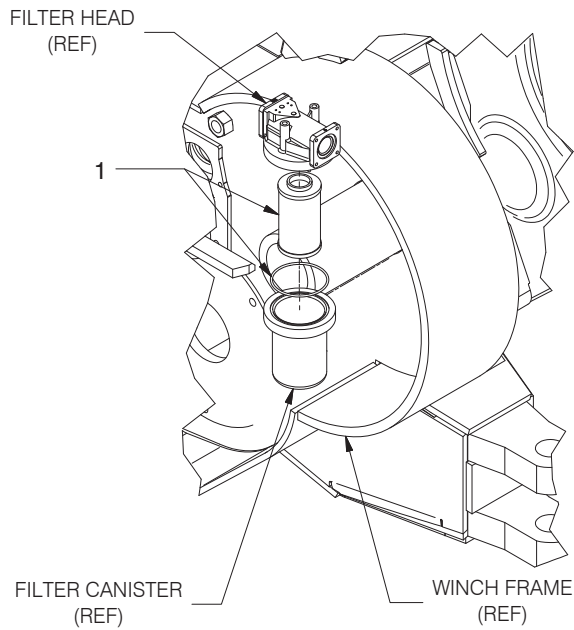
For Winches with Power Controls  
Last Used on S/N W6F-2112 and AW6F-1000



Note: Only parts with item numbers are actually included in this Service Kit.  
All other parts are shown for reference only.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	277490W	Element	1	3	264068W	Gasket	1
2	185990W	Gasket	1	4	265332W	Gasket	1

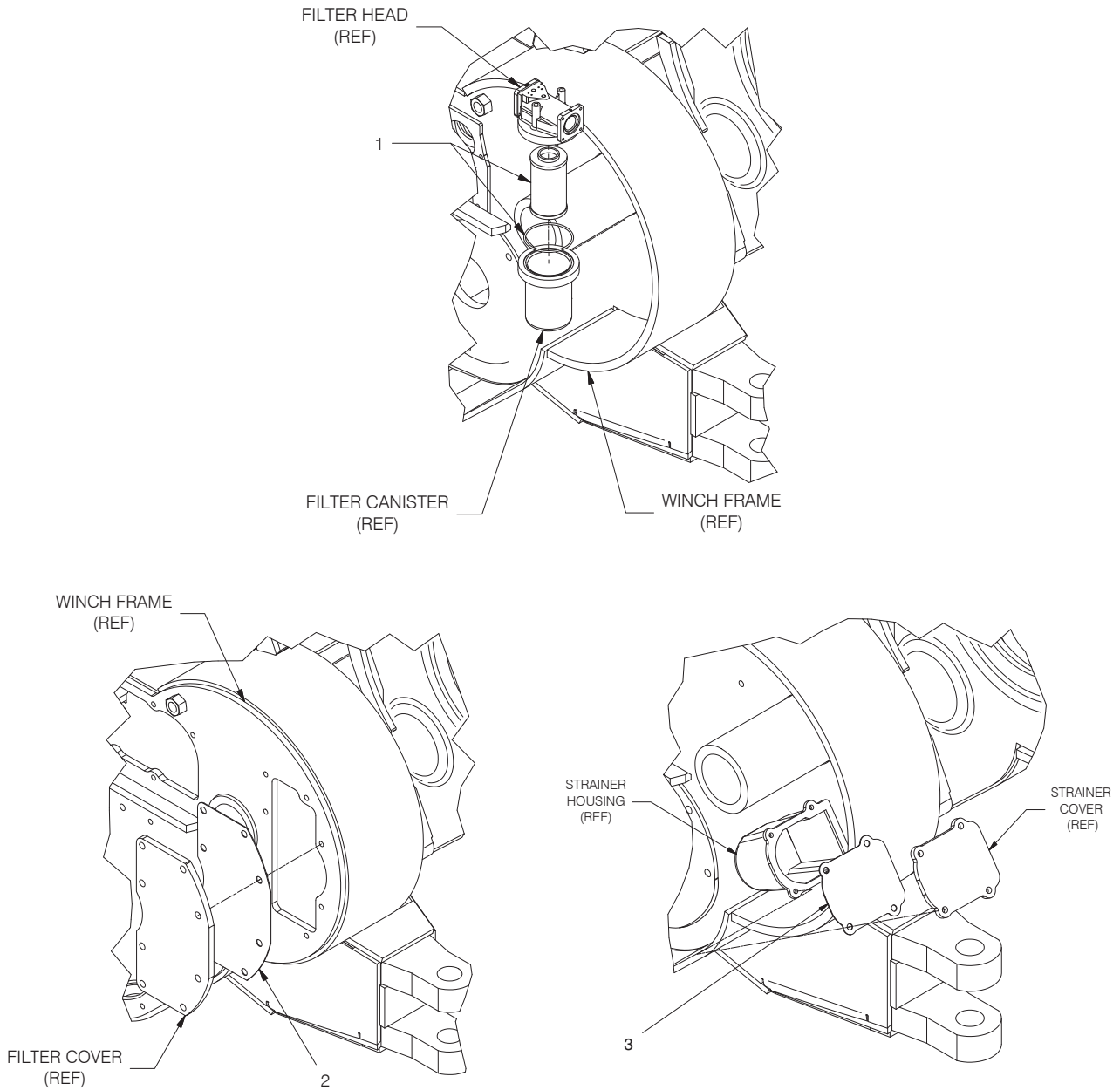
**Filter Kit: 2311385**  
 For Winches with Power Controls  
 Used on S/N W6F-2113 thru AW6F-4454



Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	3001363W	Filter	1	3	265332W	Gasket	1
2	185990W	Gasket	1	4	2300935W	Gasket	1

**Filter Kit: 2311167**  
 For Winches with Power Controls  
 First Used on S/N AW6F-4455

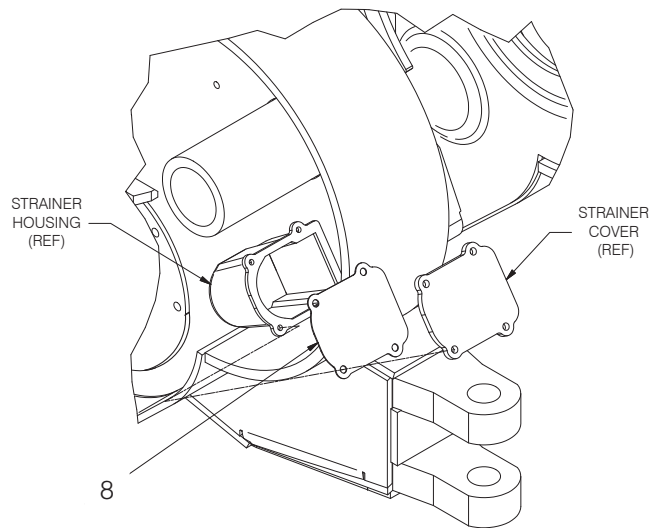
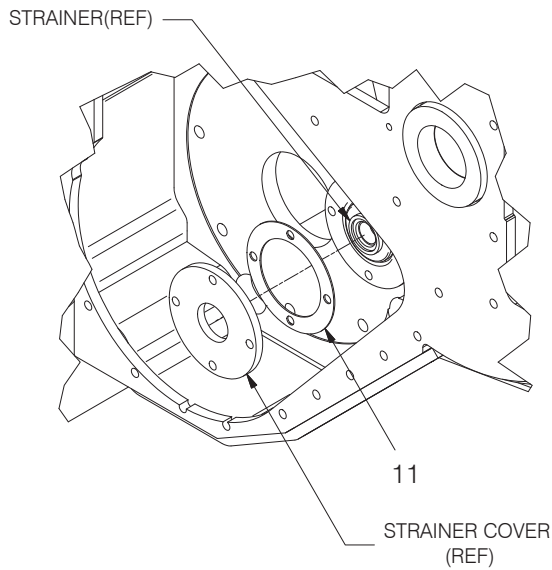
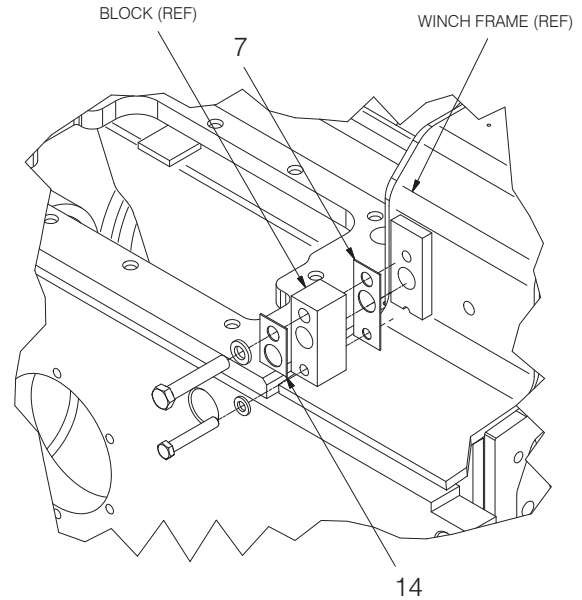
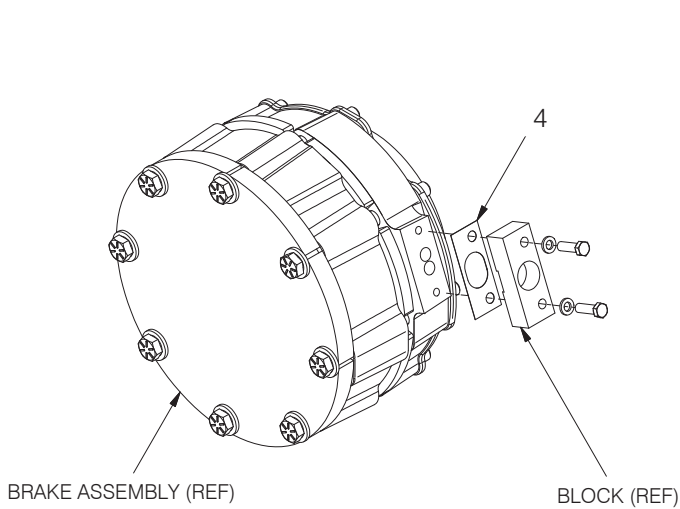


Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	3001363W	Filter - HYD	1	3	2300935W	Gasket	1
2	2314005	Gasket - Filter Cover	2				

Intentionally Blank

**Gasket Kit: 267494W**  
 For Winches with Power Controls  
 Page 1 of 2

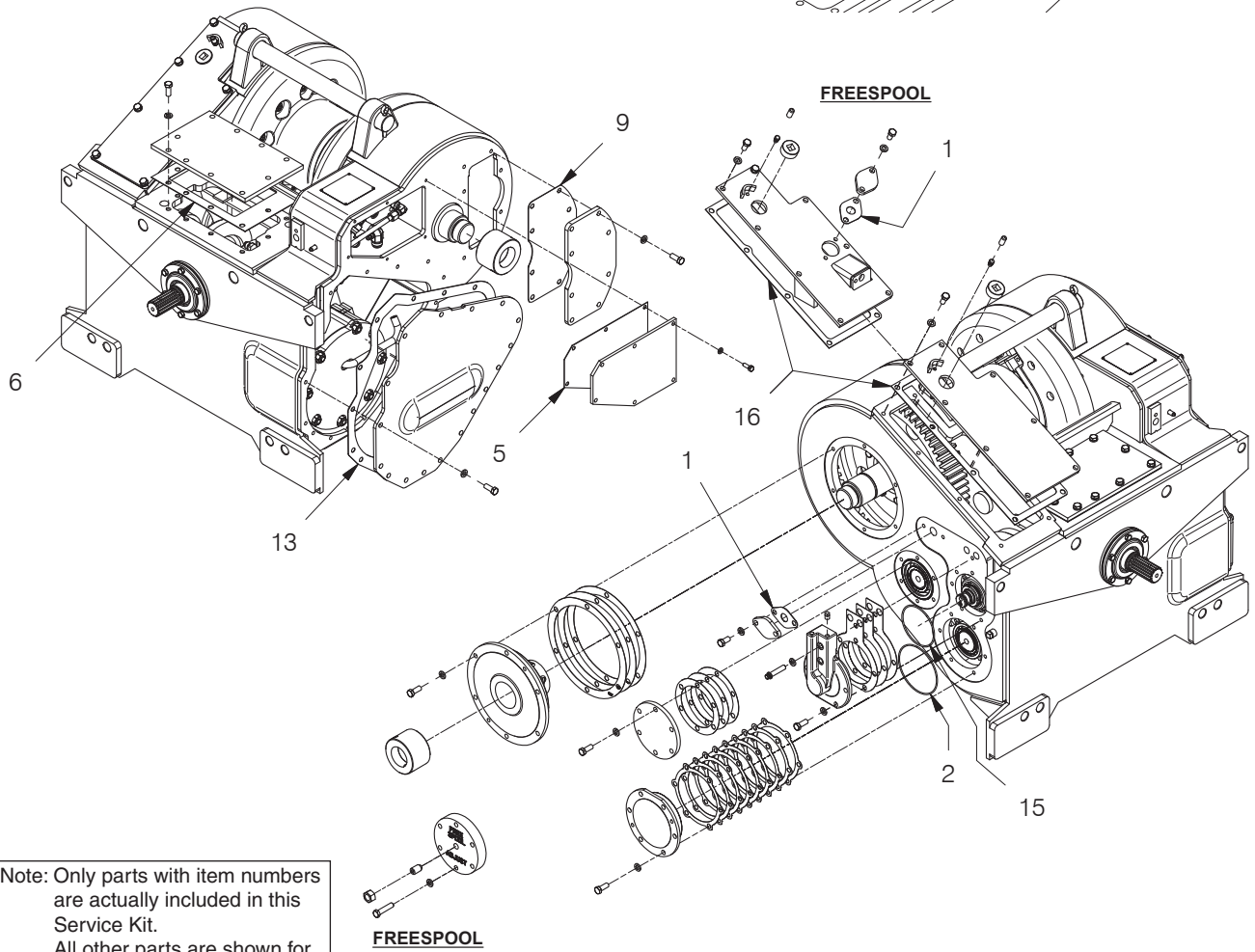
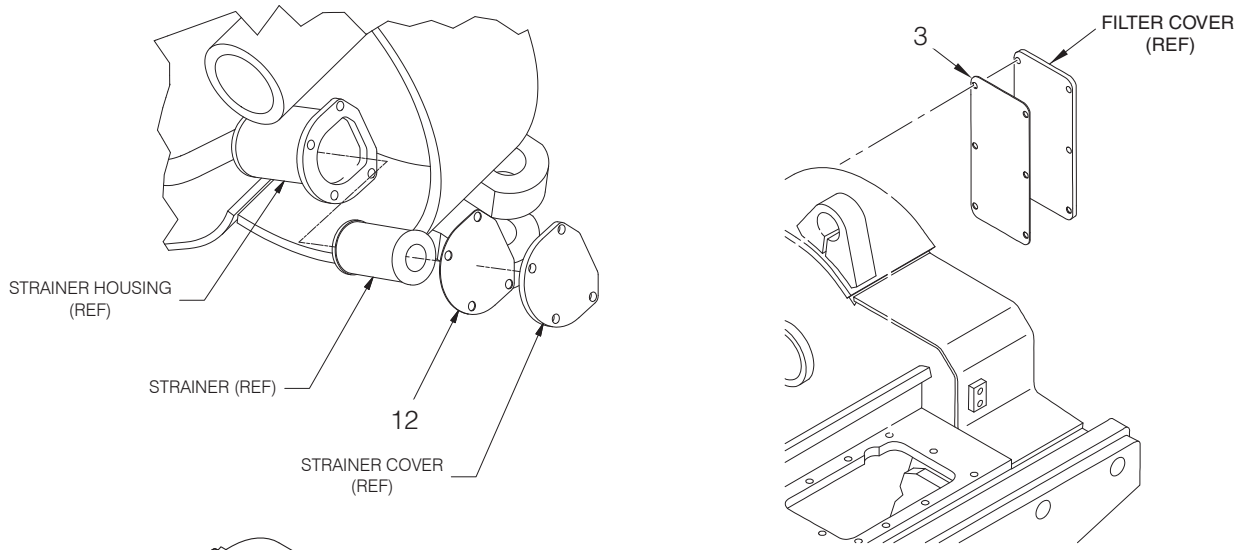


Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	151646W	Gasket	1	5	224780W	Gasket	1
2	15895W	O-Ring	1	6	224799W	Gasket	1
3	185990W	Gasket	1	7	226359W	Gasket	1
4	196022W	Gasket	1	8	2300935W	Gasket	1

# Gasket Kit: 267494W

For Winches with Power Controls  
Page 2 of 2

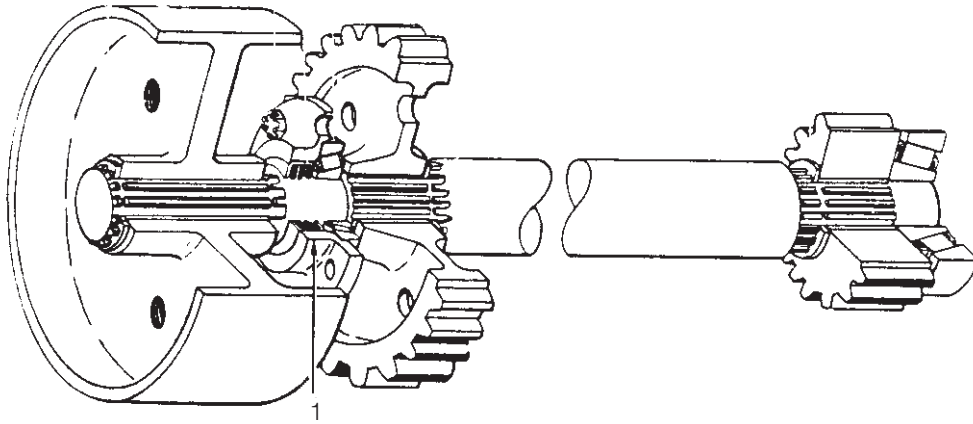


Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

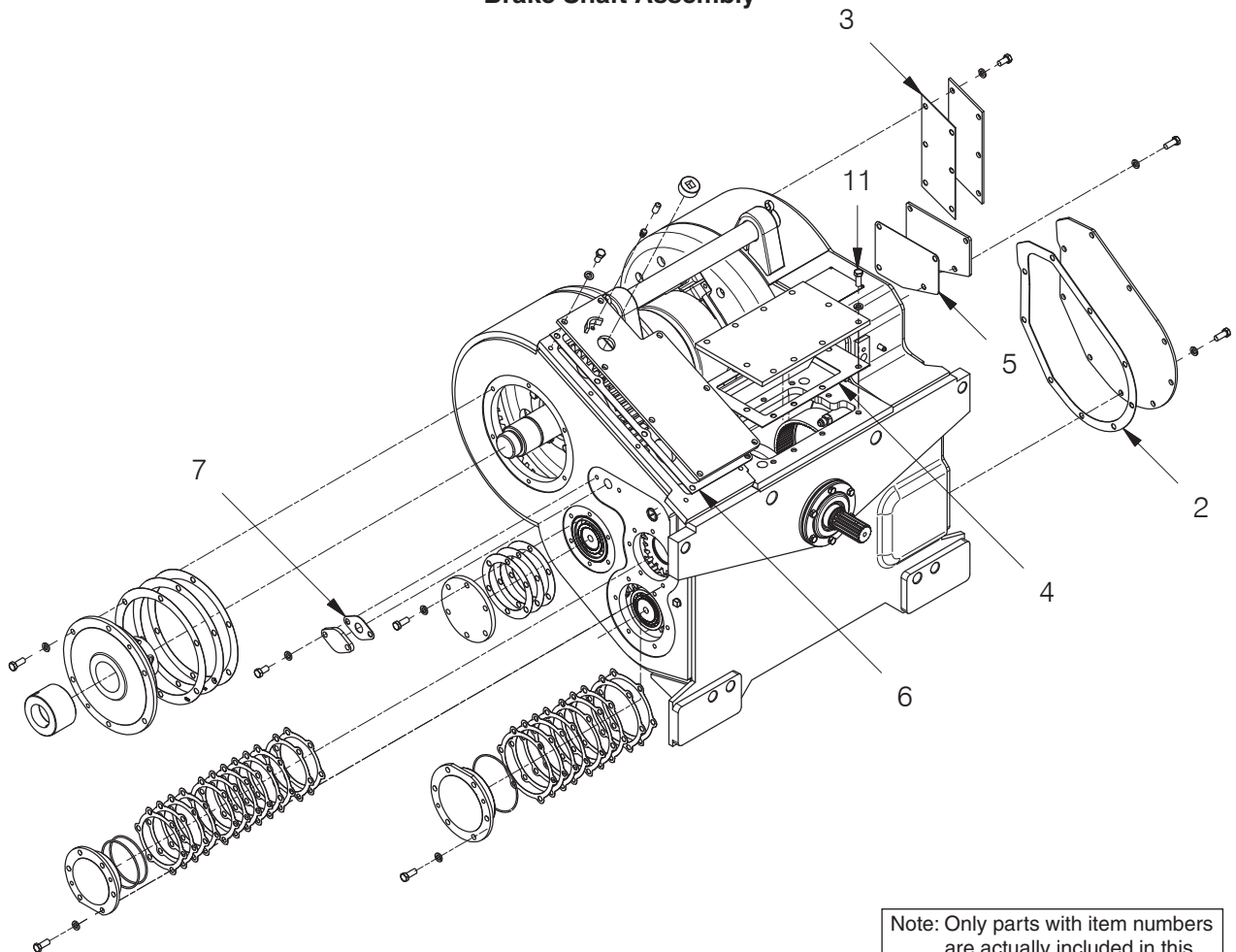
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
9	2304709W	Gasket	1	14	303946W	Gasket	2
11	264068W	Gasket	1	15	55289W	O-Ring	1
12	265332W	Gasket	1	16	95958W	Gasket	1
13	286042W	Gasket	1				

# Gasket Kit: 201871W

For Winches with Direct Drive



**Brake Shaft Assembly**



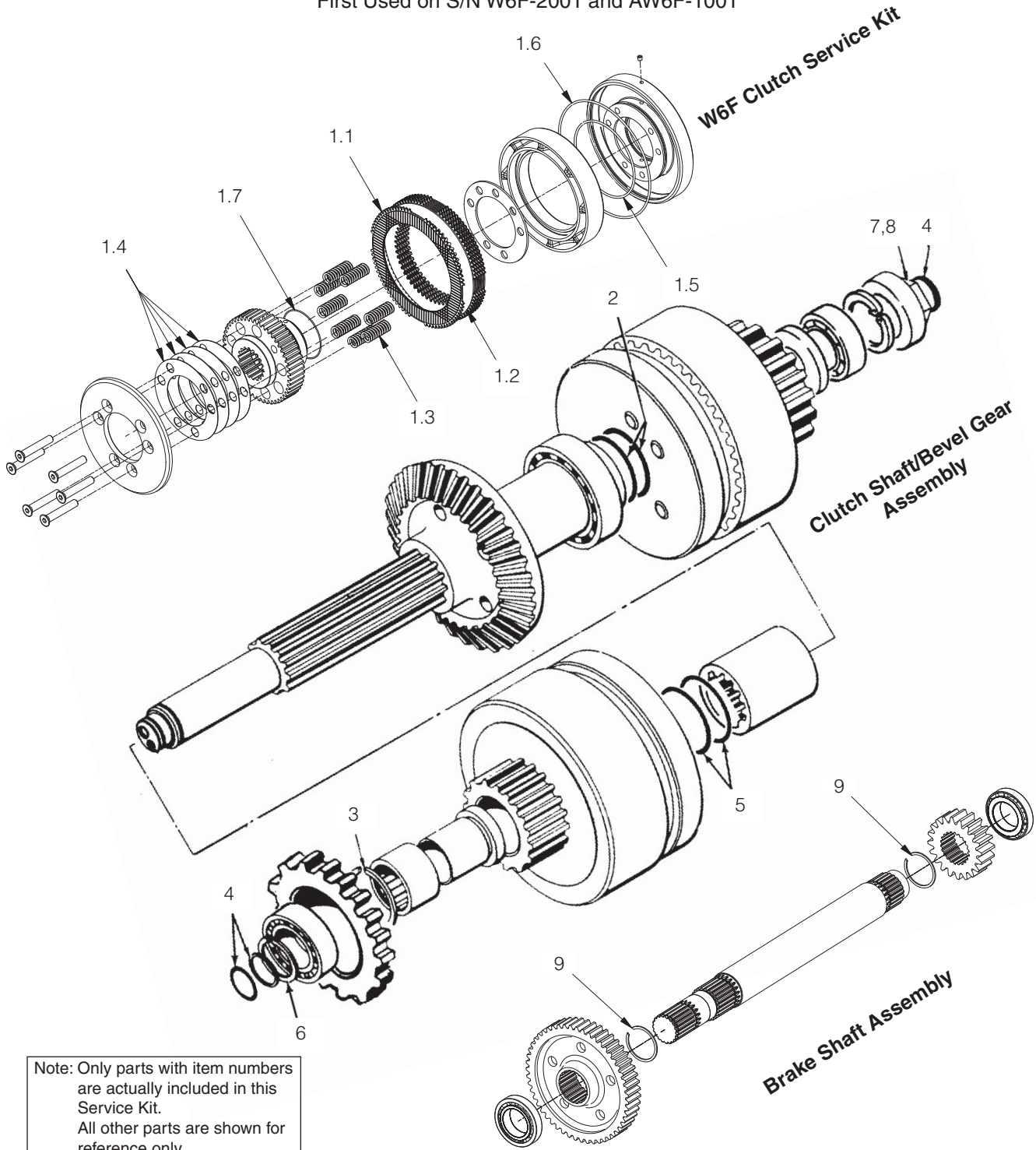
Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	92649W	Gasket	1	4	224799W	Gasket, Transmission Cover	1
2	95954W	Gasket	1	5	201862W	Gasket, Cover	1
3	185974W	Gasket	1	6	95958W	Gasket	1



# Brake & Bevel Gear/Clutch Shaft Kit: 2311378

For Winches with Power Controls  
 First Used on S/N W6F-2001 and AW6F-1001

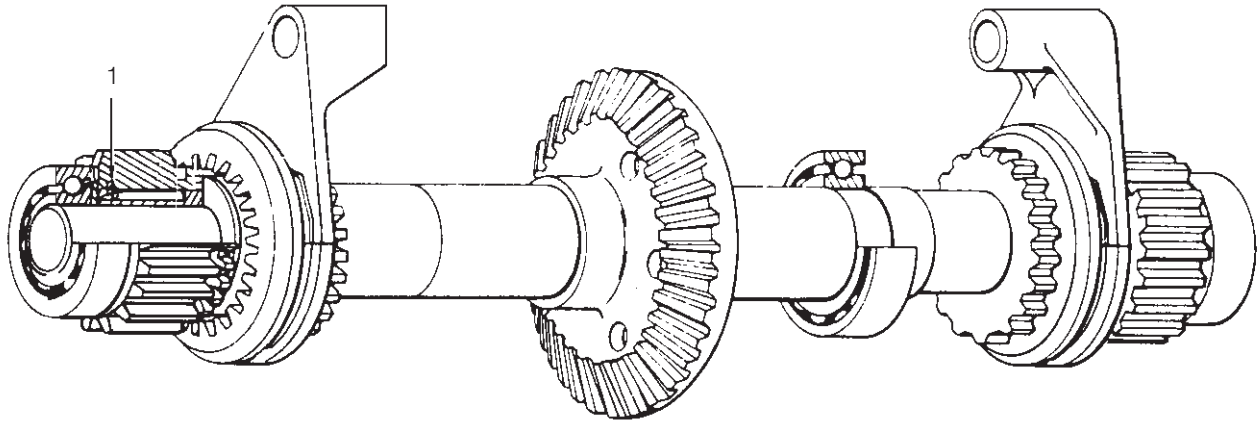


Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

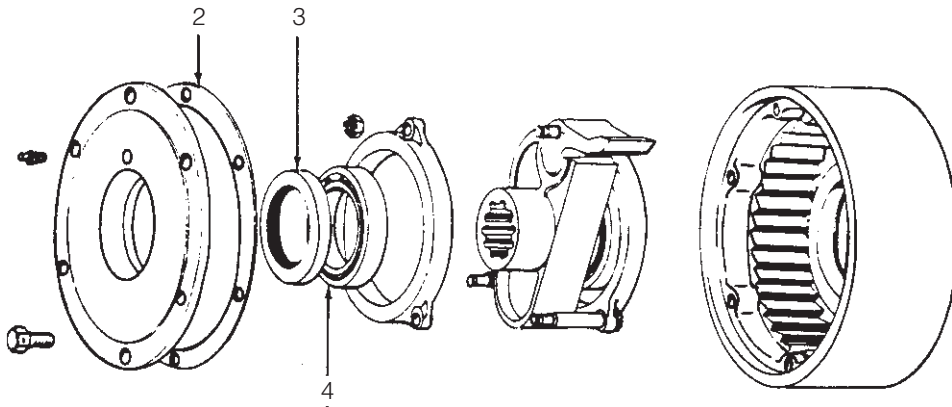
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2300544W	Service Kit, W6F Clutch	2	2	39674W	O-Ring	2
1.1	328715W	. Disc, Friction	6	3	58938W	Ring, Snap	2
1.2	261542W	. Plate, Separator	6	4	95581W	Ring, Seal	4
1.3	265407W	. Spring	8	5	108877W	O-Ring	2
1.4	224793W	. Shim .031	4	6	35575W	Ring, Snap	1
1.5	89777W	. O-Ring	1	7	174561W	Lockwasher, Bearing	1
1.6	79972W	. O-Ring	1	8	21014W	Locknut, Bearing	1
1.7	39370W	. O-Ring	1	9	12915W	Ring, Snap	2

**Brake & Bevel Gear/Clutch Shaft Kit: 2311721**

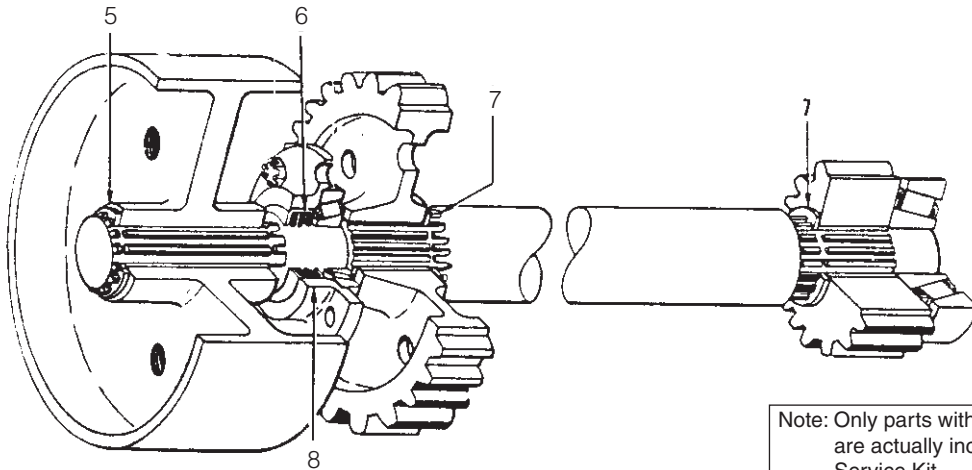
For Winches with Direct Drive  
 First Used on S/N W6F-2001 and AW6F-1001



**Clutch Shaft/Bevel Gear Assembly**



**Brake Assembly**



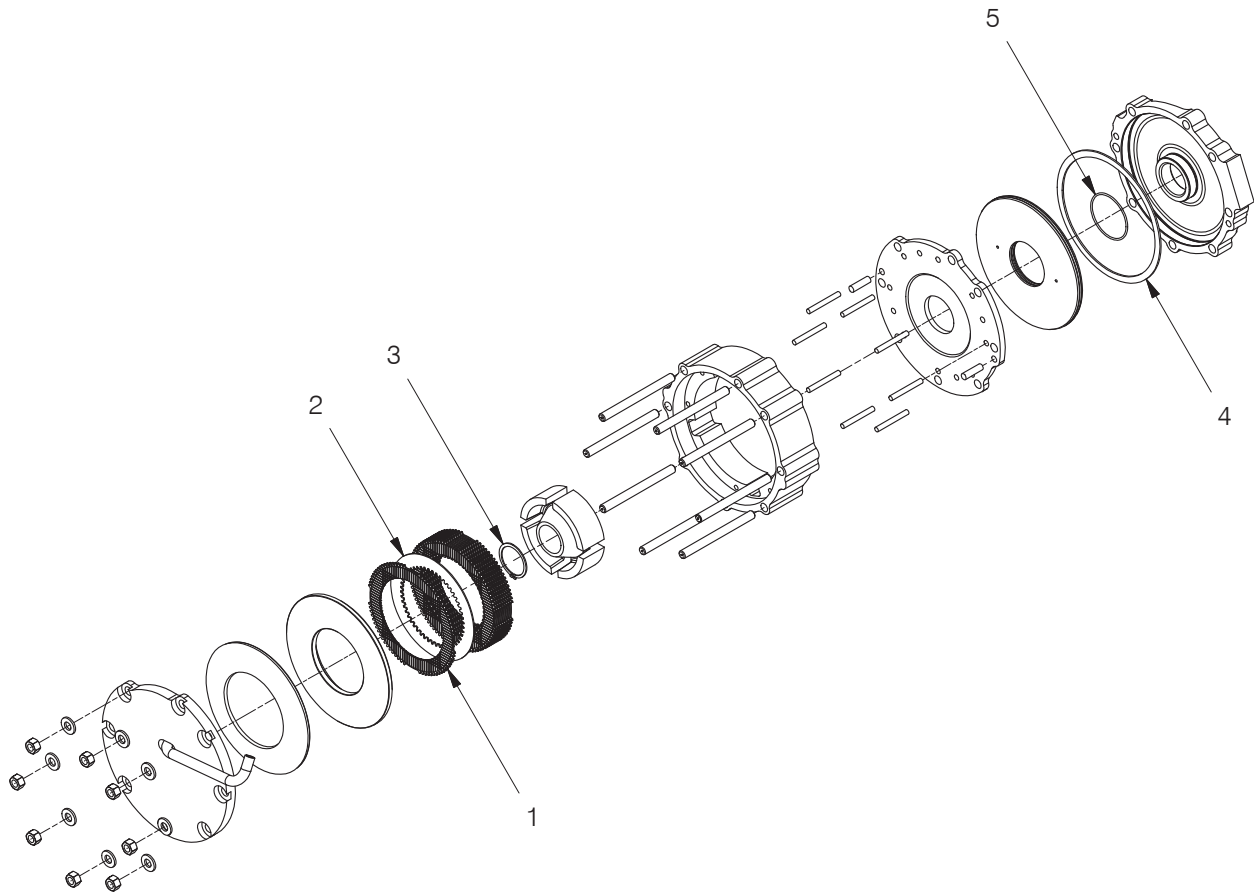
**Brake Shaft Assembly**

Note: Only parts with item numbers are actually included in this Service Kit.  
 All other parts are shown for reference only.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	58938W	Ring, Snap	2	5	58954W	Ring, Snap	1
2	59396W	Gasket	1	6	1310823W	Seal, Oil	1
3	59395W	Seal, Oil	2	7	12915W	Ring, Snap	2
4	44313W	Bearing, Ball	2	8	92649W	Gasket	1

**Brake Assembly Kit: 2311377**

For Winches with Power Controls

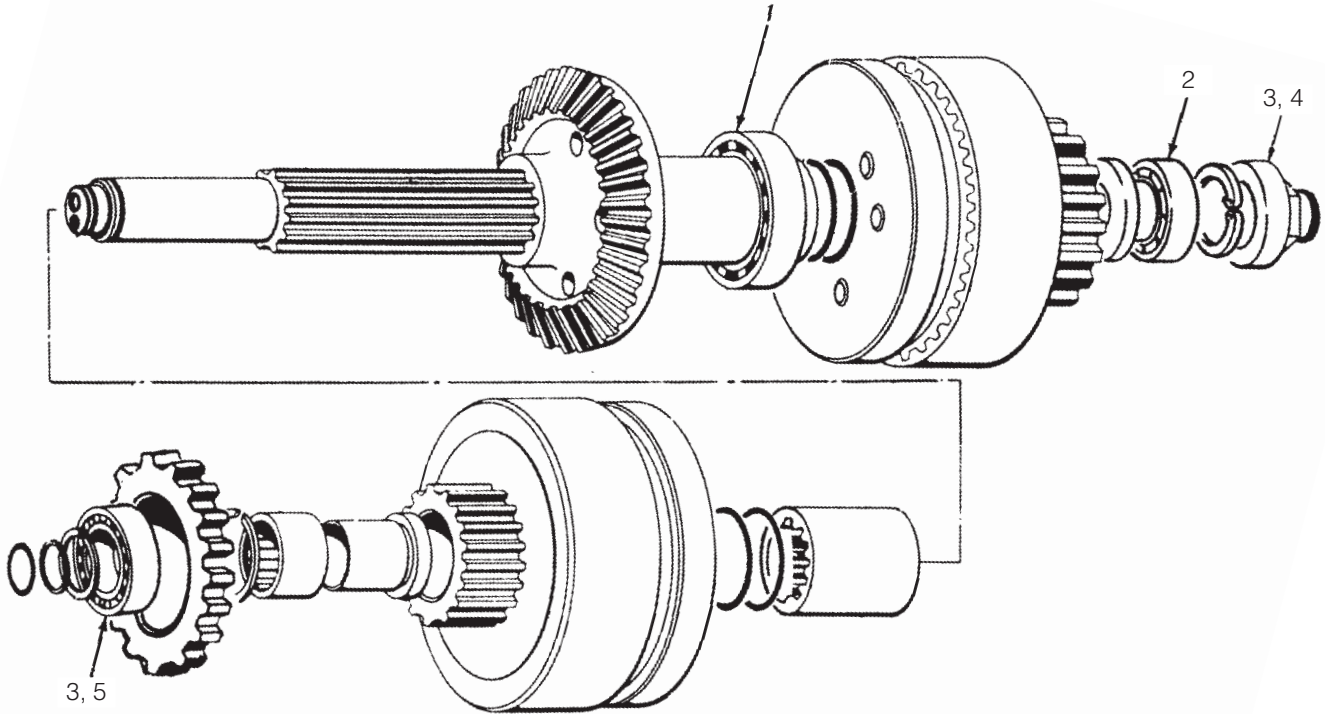


Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

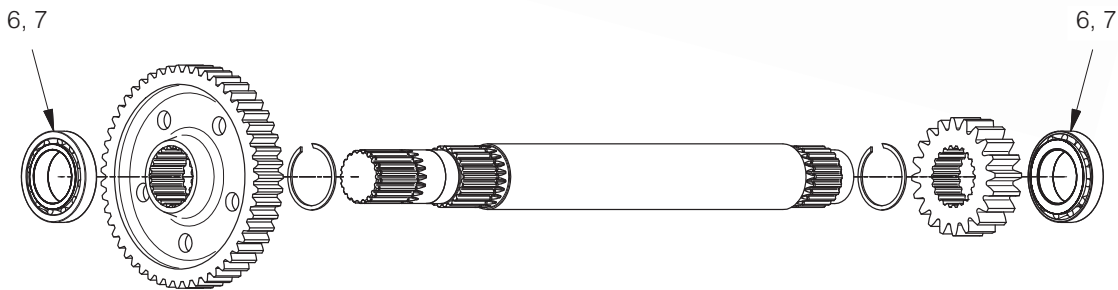
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	328715W	Disc, Friction	10	4	133927W	Ring, Seal	1
2	261542W	Plate, Separator	9	5	79979W	O-Ring	1
3	12940W	Ring, Snap	2				

**Brake & Bevel Gear/Clutch Shaft Bearing Kit: 2311379**

For Winches with Power Controls



**Clutch Shaft/Bevel Gear Assembly**



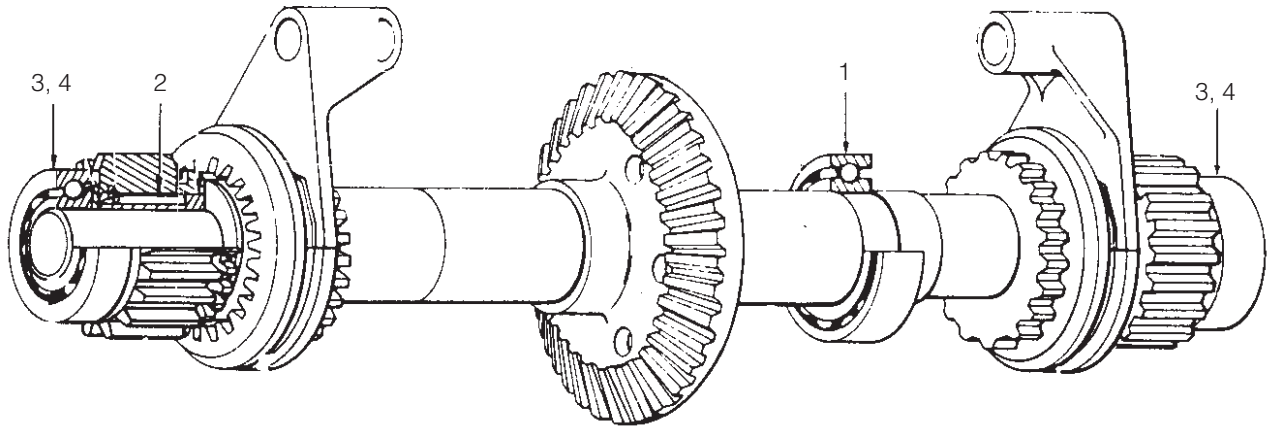
**Brake Shaft Assembly**

Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

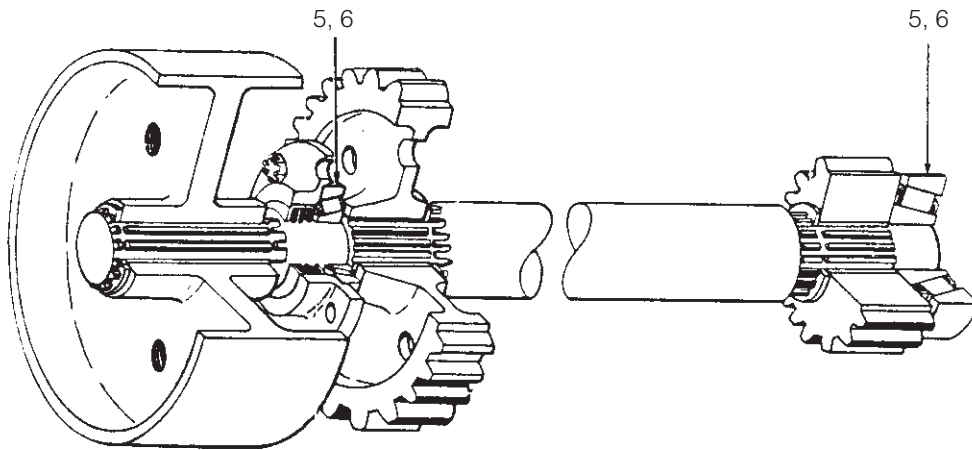
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	44316W	Bearing, Ball	1	5	225262W	Cone, Bearing	1
2	230407W	Bearing, Roller	2	6	230310W	Cone, Bearing	2
3	230351W	Cup, Bearing	2	7	230311W	Cup, Bearing	2
4	230405W	Cone, Bearing	1				

**Brake & Bevel Gear/Clutch Shaft Bearing Kit: 2311722**

For Winches with Direct Drive



**Clutch Shaft/Bevel Gear Assembly**



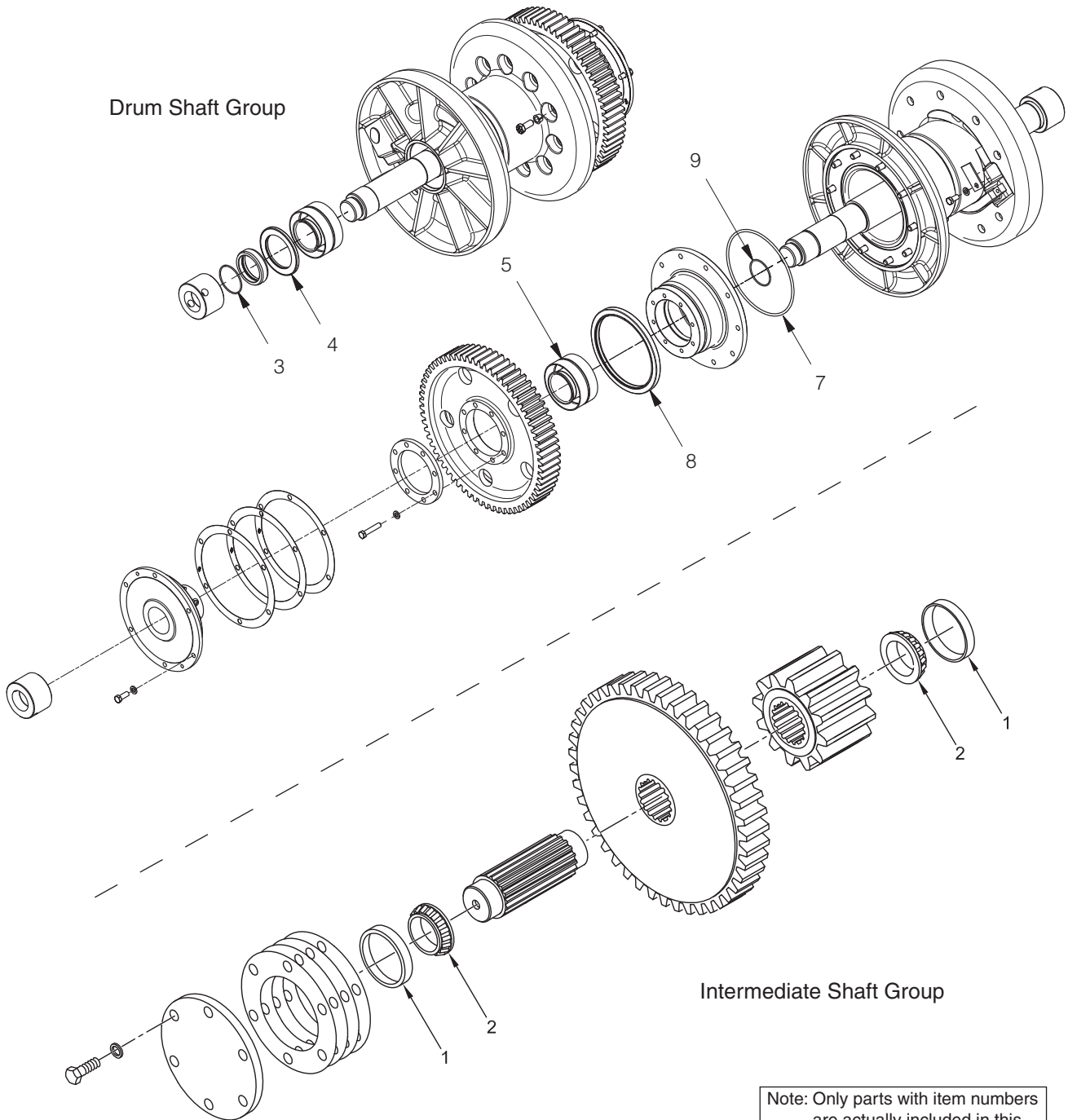
**Brake Shaft Assembly**

Note: Only parts with item numbers are actually included in this Service Kit.  
All other parts are shown for reference only.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	44316W	Bearing, Ball	1	4	230405W	Cone, Bearing	2
2	230407W	Bearing, Roller	2	5	230310W	Cone, Bearing	2
3	230351W	Cup, Bearing	2	6	230311W	Cup, Bearing	2

**Drum & Intermediate Shaft Bearing and Seal Kit: 2311383**

For Winches without Freespool



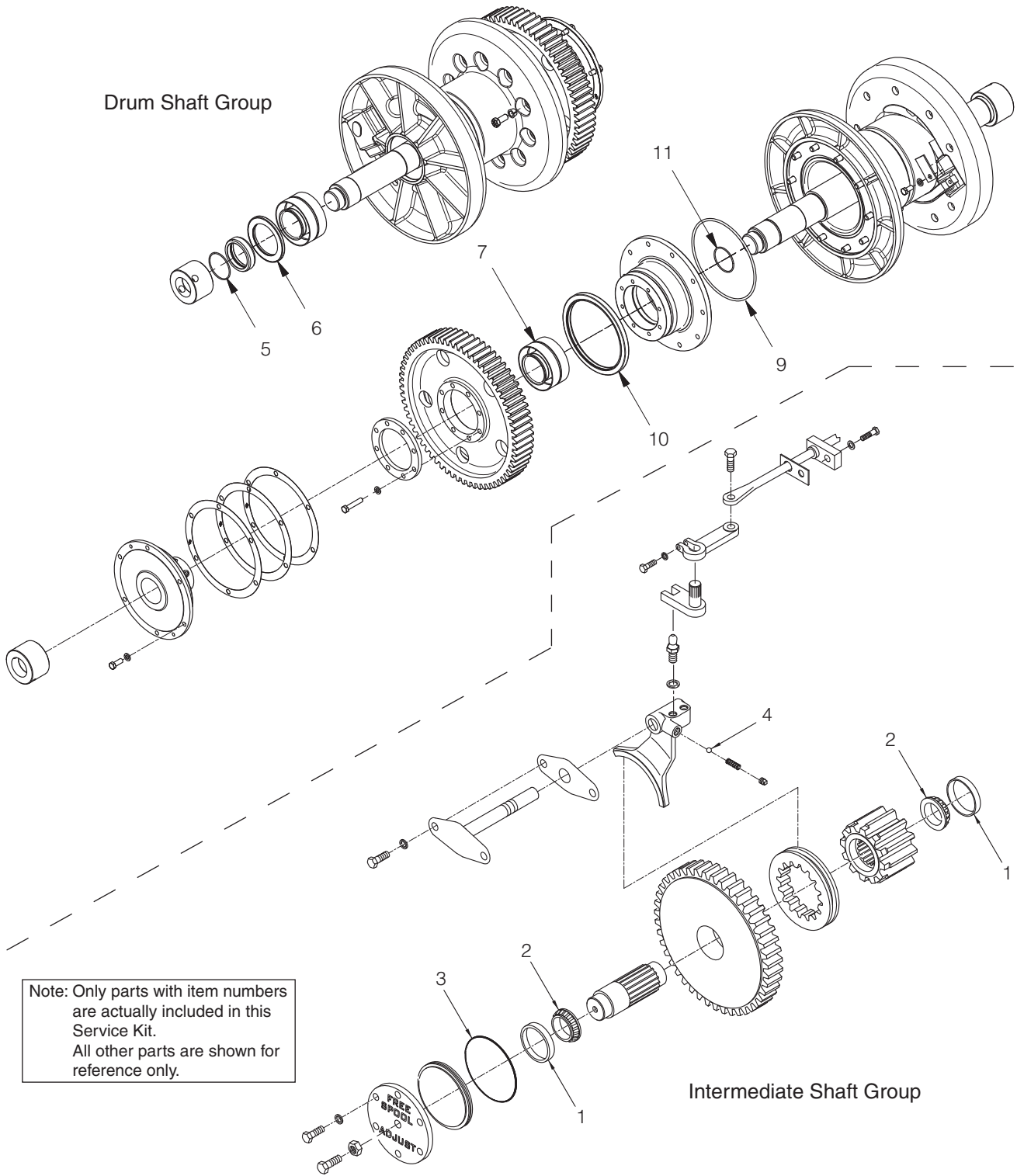
Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	30059W	Cup, Roller Bearing	2	6	358674W	Sealant	1TB
2	30080W	Cone, Bearing	2	7	133927W	Ring, Piston Seal	1
3	15881W	O-Ring	1	8	141671W	Seal, Oil	1
4	44547W	Seal, Oil	1	9	90263W	O-Ring	1
5	230406W	Bearing, Roller	2				



# Drum & Intermediate Shaft Bearing and Seal Kit: 2311381

For Winches with Freespool  
Used on S/N AW6F-4062 thru AW6F-4220

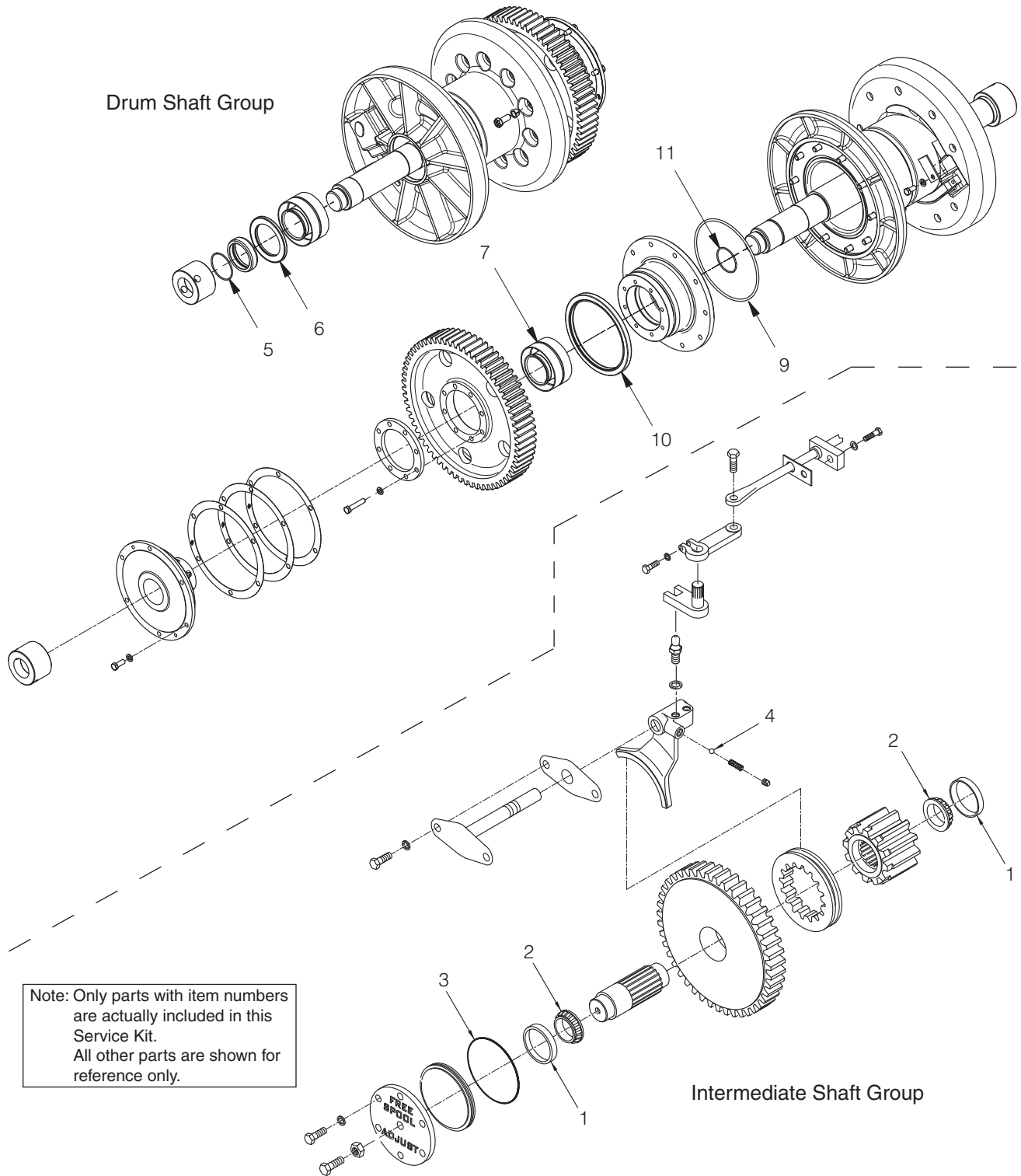


Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	30059W	Cup, Roller Bearing	2	7	230406W	Bearing, Roller	2
2	30058W	Cone, Bearing	2	8	358674W	Sealant	1TB
3	159940W	O-Ring	1	9	133927W	Ring, Piston Seal	1
4	6348W	Ball, Steel	1	10	141671W	Seal, Oil	1
5	15881W	O-Ring	1	11	90263W	O-Ring	1
6	44547W	Seal, Oil	1				

# Drum & Intermediate Shaft Bearing and Seal Kit: 2311382

For Winches with Freespool  
 First Used on S/N AW6F-4221



Note: Only parts with item numbers are actually included in this Service Kit. All other parts are shown for reference only.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	30059W	Cup, Roller Bearing	2	7	230406W	Bearing, Roller	2
2	2302311W	Cone, Bearing	2	8	358674W	Sealant	1TB
3	159940W	O-Ring	1	9	133927W	Ring, Piston Seal	1
4	6348W	Ball, Steel	1	10	141671W	Seal, Oil	1
5	15881W	O-Ring	1	11	90263W	O-Ring	1
6	44547W	Seal, Oil	1				



## Suggested Spares Guide

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Filter Kit, P/N 2311385.....	6-2
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## Suggested Spares Guide

### W6F Towing Winch

Mounted on Caterpillar 527 & D6R, John Deere 850J & K / 750J & K

#### Recommended Winch Service Kits

The following pages list the service kits that are available for your Allied W6F Winch. Each kit includes all parts listed in the table.

Pages 6-2 and 6-3 include filter kits. These kits contain all parts necessary to replace the filter element. Select the kit number relevant for your winch, and order a quantity of kits necessary. The filter element should be changed after the first 250 hours, then every 500 hours thereafter. Keep these kits in stock at all times for regular maintenance.

Page 6-3 also contains a Brake/Clutch Shaft Kit and a Brake Assembly Kit. Order these kits in preparation for the 5,000 hour scheduled maintenance.

Pages 6-4 and 6-5 contain another Brake/Clutch Shaft Bearing Kit, and three Drum & Intermediate Shaft Bearing and Seal Kits. Refer to Section 5 and Section 2 before you order the kits relevant for your winch in preparation for the 10,000 hour scheduled maintenance.

Pages 6-5 and 6-6 contain three Miscellaneous Parts Lists for the winches mounted on the subject tractors respectively. We recommend keeping these parts on hand.

Page 6-6 also contains a list of tool kits, and page 6-7 contains a list of diagnostic tools, which will help you install and maintain your winch(es).

Note: Allied winch parts manuals are available for no charge download at <http://www.alliedsystems.com/pubs/pubs.htm>.

#### Filter Kit, P/N: 2311384

Applies to: Winches Last Used on S/N W6F-2112 and S/N AW6F-1000		See Section 5 in Parts Manual	Order Quantity
Service Interval: First 250, then every 500 hours			
Allied P/N	Description	Quantity in Kit	Order Quantity
<b>2311384</b>	<b>Filter Kit</b>		
277490W	. Element	1	
185990W	. Gasket	1	
264068W	. Gasket	1	
265332W	. Gasket	1	

#### Filter Kit, P/N: 2311385

Applies to: Winches Used on S/N W6F-2113 through S/N AW6F-4454		See Section 5 in Parts Manual	Order Quantity
Service Interval: First 250, then every 500 hours			
Allied P/N	Description	Quantity in Kit	Order Quantity
<b>2311385</b>	<b>Filter Kit</b>		
3001363W	. Filter Element with O-Ring	1	
185990W	. Gasket	1	
265332W	. Gasket	1	
2300935W	. Gasket	1	



## Suggested Spares Guide

### Filter Kit, P/N: 2311167

Applies to: Winches First Used on S/N AW6F-4455		See Section 5 in Parts Manual	
Service Interval: First 250, then every 500 hours			
Allied P/N	Description	Quantity in Kit	Order Quantity
<b>2311167</b>	<b>Filter Kit</b>		
3001363W	. Filter Element with O-Ring	1	
2314005	. Gasket	2	
2300935W	. Gasket	1	

### Brake/Clutch Shaft Kit, P/N: 2311378

Service Interval: Every 5,000 hours		See Section 5 in Parts Manual	
Allied P/N	Description		
<b>2311378</b>	<b>Brake &amp; Bevel Gear/Clutch Shaft Kit</b>		
2300544W	. Service Kit, W6F Clutch	2	
328715W	. . Disc, Friction	6	
261542W	. . Plate, Separator	6	
265407W	. . Spring	8	
224793W	. . Shim .031	4	
89777W	. . O-Ring	1	
79972W	. . O-Ring	1	
39370W	. . O-Ring	1	
39674W	. O-Ring	2	
58938W	. Ring, Snap	2	
95581W	. Ring, Seal	4	
108877W	. O-Ring	2	
35575W	. Ring, Snap	1	
174561W	. Lockwasher	1	
21014W	. Locknut	1	
12915W	. Ring, Snap	2	

### Brake Assembly Kit, P/N: 2311377

Service Interval: Every 5,000 hours		See Section 5 in Parts Manual	
Allied P/N	Description		
<b>2311377</b>	<b>Brake Assembly Kit</b>		
328715W	. Disc, Friction	10	
261542W	. Plate, Separator	9	
12940W	. Ring, Snap	2	
133927W	. Ring, Seal	1	
79979W	. O-Ring	1	

Note: Inspect all hydraulic hoses during the 5,000 hour overhaul. Replace hoses as required.

Download Allied winch parts manuals at <http://www.alliedsystems.com/pubs/pubs.htm>.



## Suggested Spares Guide

### Brake/Clutch Shaft Bearing Kit, P/N: 2311379

Service Interval: Every 10,000 hours		See Section 5 in Parts Manual	
Allied P/N	Description	Quantity in Kit	Order Quantity
<b>2311379</b>	<b>Brake &amp; Bevel Gear/Clutch Shaft Bearing Kit</b>		
44316W	. Bearing, Ball	1	
230407W	. Bearing, Roller	2	
230351W	. Cup, Bearing	2	
230405W	. Cone, Bearing	1	
225262W	. Cone, Bearing	1	
230310W	. Cone, Bearing	2	
230311W	. Cup, Bearing	2	

### Drum & Intermediate Shaft Bearing and Seal Kit, P/N: 2311383

Applies to: Non-Freespool Winches			
Service Interval: Every 10,000 hours		See Sections 5 & 2 in Parts Manual	
Allied P/N	Description	Quantity in Kit	Order Quantity
<b>2311383</b>	<b>Drum &amp; Intermediate Shaft Bearing and Seal Kit</b>		
30059W	. Cup, Roller Bearing	2	
30080W	. Cone, Bearing	2	
15881W	. O-Ring	1	
44547W	. Seal, Oil	1	
230406W	. Bearing, Roller	2	
358674W	. Sealant	1	
133927W	. Ring, Piston Seal	1	
141671W	. Seal, Oil	1	
90263W	. O-Ring	1	

### Drum & Intermediate Shaft Bearing and Seal Kit, P/N: 2311381

Applies to: Freespool Winches			
Service Interval: Every 10,000 hours		See Sections 5 & 2 in Parts Manual	
Allied P/N	Description	Quantity in Kit	Order Quantity
<b>2311381</b>	<b>Drum &amp; Intermediate Shaft Bearing and Seal Kit</b>		
30059W	. Cup, Bearing	2	
30058W	. Cone, Bearing	2	
159940W	. O-Ring	1	
6348W	. Ball, Steel	1	
15881W	. O-Ring	1	
44547W	. Seal, Oil	1	
230406W	. Bearing, Roller	2	
358674W	. Sealant	1	
133927W	. Ring, Piston Seal	1	
141671W	. Seal, Oil	1	
90263W	. O-Ring	1	



## Suggested Spares Guide

### Drum & Intermediate Shaft Bearing and Seal Kit, P/N: 2311382

Applies to: Freespool Winches		See Sections 5 & 2 in Parts Manual	
Service Interval: Every 10,000 hours			
Allied P/N	Description	Quantity in Kit	Order Quantity
2311382	Drum & Intermediate Shaft Bearing and Seal Kit		
30059W	. Cup, Bearing	2	
2302311W	. Cone, Bearing	2	
159940W	. O-Ring	1	
6348W	. Ball, Steel	1	
15881W	. O-Ring	1	
44547W	. Seal, Oil	1	
230406W	. Bearing, Roller	2	
358674W	. Sealant	1	
133927W	. Ring, Piston Seal	1	
141671W	. Seal, Oil	1	
90263W	. O-Ring	1	

### Miscellaneous Parts - For Winches Mounted on Caterpillar 527

In addition to the kits listed on the previous pages, Allied Systems Company recommends that you stock the following items as applicable to your winch.

Allied P/N	Description	Quantity	Order Quantity
303942W	Cable, Push/Pull Control	1	
303941W	Cable, Freespool Control (Not used on all Installations)	1	
2303982W	Handlever, Push/Pull Control	1	
2303986W	Handlever, Freespool (Not used on all Installations)	1	
95959W	Pin, Drawbar	1	
2303221W	Pin, Retaining	1	
2302963W	Assembly, Gear Pump	1	
79389W	Seal, Oil	1	
45310W	Bearing, Ball	1	

### Miscellaneous Parts - For Winches Mounted on Caterpillar D6R

In addition to the kits listed on the previous pages, Allied Systems Company recommends that you stock the following items as applicable to your winch.

Allied P/N	Description	Quantity	Order Quantity
303944W	Cable, Push/Pull Control	1	
303942W	Cable, Freespool Control (Not used on all Installations)	1	
2303986W	Handlever, Push/Pull Control	1	
2303982W	Handlever, Freespool (Not used on all Installations)	1	
95959W	Pin, Drawbar	1	
2303221W	Pin, Retaining	1	
2302963W	Assembly, Gear Pump	1	
79389W	Seal, Oil	1	
45310W	Bearing, Ball	1	



## Suggested Spares Guide

### Miscellaneous Parts - For Winches Mounted on John Deere 850J & K / 750J & K

In addition to the kits listed on the previous pages, Allied Systems Company recommends that you stock the following items as applicable to your winch.

Allied P/N	Description	Quantity	Order Quantity
303945W	Cable, Push/Pull Control	1	
303945W	Cable, Freespool Control (Not used on all Installations)	1	
2304820W	Handlever, Push/Pull Control	1	
2313339	Handlever, Freespool (Not used on all Installations)	1	
95959W	Pin, Drawbar	1	
2303221W	Pin, Retaining	1	
2302963W	Assembly, Gear Pump	1	
79389W	Seal, Oil	1	
321899W	Cup, Bearing	1	
323350W	Cone, Bearing	1	
30189W	Cup, Bearing	1	
247093W	Cone, Bearing	1	
2305346W	Driveshaft	1	
2302790W	. Cross & Bearing Kit	1	

### Tool Kits

Order these Tool Kits as required for installation, maintenance and service of your winch(es).

Allied P/N	Description	Order Quantity
588466	Socket Set, 3/8DR 3/8" to 7/8" STD/Deep, 22 PC	
588467	Socket Set, 1/2DR 3/8" to 1-1/4" STD/Deep, 30 PC	
588468	Socket Set, 3/4DR 7/8" to 2-3/8" STD, 29 PC	
588469	Wrench Set, 5/16" to 2-1/2", 31 PC	
588527	Hex Key Sets, .025" to 5/8", 18 PC	
588530	Socket Sets, 3/8DR 6mm-19mm 12 Point	
588529	Socket Sets, 1/2DR 10mm-26mm 12 Point	
588528	Wrench Sets, 7mm-24mm, 18 PC	
588526	Hex Key Sets, .07mm-17mm, 15 PC	



# Suggested Spares Guide

## Diagnostic Tools

Order these Tools as required for maintenance and service of your winch(es).

Allied P/N	Description	Order Quantity
906601	0 to 8700 PSI Digital Pressure Gauge W/Female QD Connector	
69782	72" Hose Assembly W/QD Connectors Both Ends	
70381	144" Hose Assembly W/QD Connectors Both Ends	
69778	Multi-Meter, 12 Function	

**69778**  
Multi-Meter, 12 Function

- AC/DC Voltage & Current
- Resistance, Capacitance
- Frequency, Type K & IR Temperature, Diode/Continuity, Duty Cycle Non-Contact
- InfraRed Thermometer
- CAT III Test Leads
- Type K Bead Wire Temp Probe

QD Male

144"

QD Female

**70381**  
Kit, Hose Assembly, W/QD Both Ends

QD Male

72"

QD Female

**69782**  
Kit, Hose Assembly, W/QD Both Ends

QD Female

**906601**  
Kit, Digital Pressure Gauge W/ Female QD Connector 0 to 8700 PSI

Intentionally Blank



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129563W	1-67	25	130845W	3-11	62	133917W	2-87	9	134079W	2-41	8
129563W	1-69	1.34	130845W	3-13	62	133917W	2-89	9	134079W	2-43	8
129563W	1-87	34	130845W	3-15	62	133917W	2-90	9	134079W	2-45	8
129563W	3-55	26	130845W	3-17	62	133926W	2-87	16	134079W	2-51	8
129563W	3-102	5	130845W	3-19	62	133926W	2-88	7	134079W	2-53	8
129563W	3-111	2	130845W	3-21	62	133927W	2-77	2	134079W	2-55	8
129563W	3-113	21	130845W	3-25	93	133927W	2-87	15	134079W	2-57	8
129563W	3-150	2	130845W	3-29	93	133927W	2-88	8	134079W	2-59	741
12963W	2-49	30	1310734W	2-29	17	133927W	5-13	4	134079W	2-61	11
1300785W	3-72	1	1310768W	1-10	1	133927W	5-16	7	134079W	2-65	741
1300785W	3-86	1	1310771W	1-10	2	133927W	5-17	9	134079W	2-67	741
1300785W	3-88	1	1310777W	2-3	19	133927W	5-18	9	134821W	1-17	23
1300785W	3-96	1	1310778W	2-3	17	133927W	6-3		134821W	1-18	2
1300785W	3-102	6	1310779W	1-10	14	133927W	6-4		134821W	1-25	15
1300785W	3-104	1	1310819W	1-13	8	133927W	6-4		134821W	1-27	12
1300785W	3-124	1	1310819W	1-21	6	133927W	6-5		134821W	1-33	20
1300785W	3-140	1	1310823W	2-68	4	133929W	2-87	19	134821W	1-37	8
1300785W	3-152		1310823W	2-69	4	133930W	2-87	10	134821W	1-41	2

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134821W	1-43	60	14349W	3-11	36	14669W	3-3	75	149542W	1-5	36
134821W	1-44	2	14349W	3-13	35	14669W	3-5	77	149542W	1-9	28
134821W	1-51	3	14349W	3-13	36	14669W	3-7	76	149542W	2-79	6
134821W	1-56	1	14349W	3-15	31	14669W	3-9	76	149542W	2-81	16
134821W	1-57	2	14349W	3-15	36	14669W	3-11	76	149542W	2-83	16
134821W	1-58	1	14349W	3-17	36	14669W	3-13	76	149543W	1-5	37
134821W	1-59	2	14349W	3-17	37	14669W	3-15	75	149543W	1-9	29
134821W	1-61	8	14349W	3-19	35	14669W	3-17	77	149543W	2-79	6
134821W	1-63	11	14349W	3-19	36	14669W	3-19	76	149543W	2-81	16
134821W	1-65	8	14349W	3-21	35	14669W	3-21	76	149543W	2-83	16
134821W	1-67	11	14349W	3-21	36	14712W	3-63	5	15004W	3-152	17
134821W	1-69	1.12	14349W	3-25	192	14712W	3-67	5	15004W	3-153	17
134821W	1-87	36	14349W	3-25	213	14712W	3-85	5	15004W	3-154	16
134821W	1-88	8	14500W	3-3	31	14712W	3-93	17	15005W	3-152	19
136578W	1-41	4	14500W	3-5	33	14712W	3-95	5	15005W	3-153	19
136578W	1-44	4	14500W	3-7	32	14712W	3-107	5	15005W	3-154	18
137852W	1-21	23	14500W	3-9	32	14712W	3-119	5	15006W	2-3	31
138750W	3-30	19	14500W	3-11	32	14712W	3-123	5	15006W	3-38	4
138750W	3-31	19	14500W	3-15	31	14712W	3-133	5	15016W	1-44	5
138750W	3-32	18	14500W	3-17	33	14712W	3-135	15	15016W	1-51	5
138994W	2-25	5	14500W	3-19	32	14712W	3-137	5	15018W	1-51	1
13987W	1-18	12	14500W	3-25	188	14712W	3-147	5	15024W	3-77	3
139W	3-3	77	14500W	3-29	188	14723W	3-3	59	15024W	3-127	3
139W	3-5	79	14516W	3-99	26	14723W	3-5	58	15024W	3-152	16
139W	3-7	78	14516W	3-145	26	14723W	3-7	59	15024W	3-153	16
139W	3-9	78	14538W	3-9	31	14723W	3-9	59	15024W	3-154	15
139W	3-11	78	14538W	3-13	31	14723W	3-11	59	15026W	3-39	2
139W	3-13	78	14538W	3-21	31	14723W	3-13	59	15026W	3-41	11
139W	3-15	77	14539W	3-3	69	14723W	3-15	59	15026W	3-43	26
139W	3-17	79	14539W	3-5	69	14723W	3-17	58	15026W	3-45	26
139W	3-19	78	14539W	3-7	69	14723W	3-19	59	15026W	3-47	26
139W	3-21	78	14539W	3-9	69	14723W	3-21	59	15027W	3-35	11
139W	3-25	96	14539W	3-11	69	14723W	3-25	55	15027W	3-36	10
139W	3-29	96	14539W	3-13	69	14723W	3-29	55	15027W	3-37	14
140288W	3-7	28	14539W	3-15	69	14758W	3-3	24	15030W	3-39	10
140288W	3-9	28	14539W	3-17	69	14758W	3-5	24	15030W	3-48	2
140288W	3-19	28	14539W	3-19	69	14758W	3-7	25	15030W	3-50	2
140288W	3-25	120	14539W	3-21	69	14758W	3-9	25	15030W	3-51	2
140288W	3-29	120	145641W	3-3	41	14758W	3-11	25	15030W	3-52	2
141348W	2-89	15	145641W	3-15	41	14758W	3-13	25	15030W	3-55	5
141348W	2-90	4	14581W	3-3	30	14758W	3-15	24	15030W	3-59	5
141348W	2-91	12	14581W	3-5	30	14758W	3-17	24	15030W	3-63	2
141348W	2-92	12	14581W	3-15	30	14758W	3-19	25	15030W	3-65	4
141596W	2-49	7	14581W	3-17	30	14758W	3-21	25	15030W	3-67	2
141671W	2-77	17	14595W	3-37	39	14758W	3-63	13	15030W	3-79	5
141671W	5-16	8	146073W	2-51	20	14758W	3-67	13	15030W	3-85	2
141671W	5-17	10	146073W	2-53	20	14758W	3-85	13	15030W	3-93	4
141671W	5-18	10	146296W	3-67	25	14758W	3-95	13	15030W	3-95	2
141671W	6-4		146296W	3-123	22	14758W	3-107	13	15030W	3-99	2
141671W	6-4		14668W	3-3	71	14758W	3-119	15	15030W	3-101	4
141671W	6-5		14668W	3-5	73	14758W	3-123	15	15030W	3-107	2
141674W	2-77	22	14668W	3-7	31	14758W	3-133	15	15030W	3-109	5
141675W	2-77	24	14668W	3-7	72	14758W	3-137	15	15030W	3-113	5
141676W	2-77	1	14668W	3-9	31	14758W	3-147	15	15030W	3-115	5
141679W	2-77	1	14668W	3-9	72	14761W	3-3	66	15030W	3-119	2
142682W	3-3	11	14668W	3-11	31	14761W	3-5	66	15030W	3-121	2
142682W	3-15	11	14668W	3-11	72	14761W	3-7	66	15030W	3-123	2
143292W	4-3	19	14668W	3-13	31	14761W	3-9	66	15030W	3-128	5
143292W	4-4	11	14668W	3-13	72	14761W	3-11	66	15030W	3-129	5
143292W	4-4	12	14668W	3-15	71	14761W	3-13	66	15030W	3-133	2
143413W	3-85	33	14668W	3-17	73	14761W	3-15	66	15030W	3-135	2
14349W	2-53	3	14668W	3-19	31	14761W	3-17	66	15030W	3-137	2
14349W	3-3	31	14668W	3-19	72	14761W	3-19	66	15030W	3-139	2
14349W	3-3	36	14668W	3-21	31	14761W	3-21	66	15030W	3-143	2
14349W	3-5	36	14668W	3-21	72	14761W	3-25	53	15030W	3-145	2
14349W	3-5	37	14668W	3-25	193	14761W	3-29	53	15030W	3-147	2
14349W	3-7	35	14668W	3-25	214	149541W	1-5	35	15030W	3-149	5
14349W	3-7	36	14668W	3-29	193	149541W	1-9	27	15054W	3-75	10
14349W	3-9	35	14668W	3-29	214	149541W	2-79	6	15054W	3-99	28
14349W	3-9	36	14668W	3-36	35	149541W	2-81	16	15054W	3-145	28
14349W	3-11	35	14668W	3-37	1	149541W	2-83	16	15055W	3-57	28

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15055W	3-96	8	15106W	3-93	6	15135W	3-79	8	15156W	3-3	42
15055W	3-99	20	15106W	3-95	10	15135W	3-85	7	15156W	3-5	6
15055W	3-101	12	15106W	3-99	7	15135W	3-93	9	15156W	3-5	20
15055W	3-110	28	15106W	3-107	10	15135W	3-95	7	15156W	3-5	23
15055W	3-121	10	15106W	3-119	17	15135W	3-99	4	15156W	3-5	41
15055W	3-140	6	15106W	3-123	17	15135W	3-101	9	15156W	3-5	54
15055W	3-143	10	15106W	3-133	17	15135W	3-107	7	15156W	3-5	72
15055W	3-145	20	15106W	3-135	4	15135W	3-109	8	15156W	3-7	7
15056W	3-33	31	15106W	3-137	17	15135W	3-113	8	15156W	3-7	21
15056W	3-41	6	15106W	3-139	4	15135W	3-115	8	15156W	3-7	40
15056W	3-43	4	15106W	3-145	7	15135W	3-119	16	15156W	3-7	43
15056W	3-45	4	15106W	3-147	17	15135W	3-121	5	15156W	3-7	54
15056W	3-47	4	15110W	1-10	12	15135W	3-123	16	15156W	3-9	7
15056W	3-48	19	15110W	1-11	14	15135W	3-128	8	15156W	3-9	21
15056W	3-49	8	15110W	1-53	7	15135W	3-129	8	15156W	3-9	40
15056W	3-50	19	15110W	1-55	15	15135W	3-133	16	15156W	3-9	43
15056W	3-51	19	15110W	1-83	14	15135W	3-135	7	15156W	3-9	54
15056W	3-52	19	15111W	1-10	11	15135W	3-137	16	15156W	3-11	7
15056W	3-63	26	15113W	3-60	4	15135W	3-139	7	15156W	3-11	40
15056W	3-63	36	15113W	3-61	4	15135W	3-143	5	15156W	3-11	43
15056W	3-65	26	15113W	3-71	2.6	15135W	3-145	4	15156W	3-11	54
15056W	3-67	26	15113W	3-75	5	15135W	3-147	16	15156W	3-13	7
15056W	3-67	26	15113W	3-83	2.5	15135W	3-149	8	15156W	3-13	40
15056W	3-85	26	15113W	3-116	4	15137W	1-45	5	15156W	3-13	43
15056W	3-85	26	15113W	3-117	4	15137W	1-47	5	15156W	3-13	54
15056W	3-86	8	15113W	3-125	4	15154W	3-75	11	15156W	3-15	1
15056W	3-87	7	15113W	3-156	4	15154W	3-99	29	15156W	3-15	5
15056W	3-88	8	15113W	3-157	4	15154W	3-145	29	15156W	3-15	28
15056W	3-89	7	15113W	3-160	5	15155W	1-17	22	15156W	3-15	42
15056W	3-95	26	15113W	3-161	5	15155W	3-3	45	15156W	3-17	6
15056W	3-101	26	15127W	3-90	62	15155W	3-5	44	15156W	3-17	41
15056W	3-107	26	15127W	3-104	5	15155W	3-7	43	15156W	3-17	54
15056W	3-119	28	15128W	1-10	7	15155W	3-9	43	15156W	3-17	72
15056W	3-119	38	15128W	1-11	13	15155W	3-11	43	15156W	3-19	7
15056W	3-121	20	15128W	1-13	2	15155W	3-13	43	15156W	3-19	21
15056W	3-123	28	15128W	1-15	2	15155W	3-15	45	15156W	3-19	40
15056W	3-133	28	15128W	1-23	2	15155W	3-17	44	15156W	3-19	43
15056W	3-137	28	15128W	1-33	19	15155W	3-19	43	15156W	3-19	54
15056W	3-143	20	15128W	1-37	27	15155W	3-21	43	15156W	3-21	7
15056W	3-147	28	15128W	1-53	2	15155W	3-55	10A	15156W	3-21	21
15058W	1-27	16	15128W	1-55	14	15155W	3-57	30	15156W	3-21	40
15058W	3-41	16	15128W	1-61	12	15155W	3-59	10	15156W	3-21	43
15058W	3-43	15	15128W	1-63	15	15155W	3-65	13	15156W	3-21	54
15058W	3-43	19	15128W	1-65	12	15155W	3-79	10	15156W	3-25	5
15058W	3-45	15	15128W	1-67	15	15155W	3-96	7	15156W	3-29	5
15058W	3-45	19	15128W	1-69	1.11	15155W	3-99	19	15156W	3-36	33
15058W	3-45	23	15128W	1-75	2	15155W	3-101	13	15156W	3-37	3
15058W	3-47	15	15128W	1-77	4	15155W	3-109	10A	15156W	3-38	2
15058W	3-47	19	15128W	1-79	4	15155W	3-110	30	15156W	3-41	6
15061W	1-10	15	15128W	1-81	2	15155W	3-113	10A	15156W	3-43	3
15061W	1-15	6	15128W	1-83	13	15155W	3-115	10	15156W	3-45	3
15061W	1-23	6	15128W	1-85	1.22	15155W	3-128	10	15156W	3-47	3
15061W	1-45	8	15128W	2-49	9	15155W	3-129	10	15156W	3-48	18
15061W	1-47	9	15134W	1-63	23	15155W	3-140	5	15156W	3-49	7
15061W	2-51	6	15134W	1-67	23	15155W	3-145	19	15156W	3-50	18
15061W	2-53	6	15134W	2-3	30	15155W	3-149	10A	15156W	3-51	18
15061W	2-55	12	15134W	2-49	26	15155W	3-121	11	15156W	3-52	18
15061W	2-57	12	15134W	3-33	30	15155W	3-143	11	15156W	3-55	24
15066W	1-17	21	15134W	3-102	3	15156W	1-7	4	15156W	3-63	28
15066W	1-18	4	15134W	3-104	9	15156W	1-9	44	15156W	3-63	35
15086W	3-41	9	15134W	3-105	12	15156W	1-73	737	15156W	3-65	25
15086W	3-43	30	15134W	3-111	4	15156W	1-77	415	15156W	3-67	28
15086W	3-45	30	15134W	3-150	4	15156W	1-79	737	15156W	3-85	28
15086W	3-47	30	15135W	1-63	35	15156W	2-59	737	15156W	3-85	28
15106W	3-48	9	15135W	1-67	35	15156W	2-61	32	15156W	3-87	6
15106W	3-50	9	15135W	1-69	1.20	15156W	2-65	737	15156W	3-89	6
15106W	3-51	9	15135W	3-55	8	15156W	2-67	737	15156W	3-93	22
15106W	3-52	9	15135W	3-59	8	15156W	3-3	2	15156W	3-95	28
15106W	3-63	10	15135W	3-63	7	15156W	3-3	5	15156W	3-101	25
15106W	3-67	10	15135W	3-65	9	15156W	3-3	20	15156W	3-105	13



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15156W	3-109	24	15158W	2-65	748	15178W	3-11	43	15272W	1-3	3
15156W	3-111	8	15158W	2-67	748	15178W	3-19	43	15272W	1-5	4
15156W	3-113	19	15158W	2-68	3	15200W	3-77	4.3	15272W	1-7	3
15156W	3-119	25	15158W	2-69	3	15200W	3-127	4.3	15272W	1-9	4
15156W	3-119	37	15158W	2-77	6	15201W	2-86	6	15272W	4-3	1
15156W	3-121	19	15158W	2-79	8	15212W	3-3	78	15272W	4-4	16
15156W	3-123	25	15158W	2-81	11	15212W	3-5	80	15272W	4-5	16
15156W	3-123	25	15158W	2-83	11	15212W	3-7	79	15272W	4-6	16
15156W	3-133	25	15158W	2-85	11	15212W	3-9	79	15273W	1-3	13
15156W	3-135	19	15158W	2-93	2	15212W	3-11	79	15273W	1-7	13
15156W	3-137	25	15158W	3-3	22	15212W	3-13	79	15273W	4-7	19
15156W	3-139	16	15158W	3-3	35	15212W	3-15	78	15290W	2-59	746
15156W	3-143	19	15158W	3-5	35	15212W	3-17	80	15290W	2-65	746
15156W	3-147	25	15158W	3-7	24	15212W	3-19	79	15290W	2-67	746
15156W	3-149	19	15158W	3-7	34	15212W	3-21	79	152995W	4-3	4
15156W	3-150	8	15158W	3-7	43	15212W	3-25	97	15303W	1-5	6
15157W	2-3	16	15158W	3-9	24	15212W	3-29	97	15303W	1-7	25
15157W	2-27	10	15158W	3-9	34	15223W	3-39	6	15303W	1-9	6
15157W	2-31	24	15158W	3-11	34	15223W	3-41	13	15303W	2-49	41
15157W	2-33	24	15158W	3-11	43	15223W	3-43	28	15305W	2-49	18
15157W	2-35	24	15158W	3-13	34	15223W	3-45	28	15306W	1-3	18
15157W	3-38	8	15158W	3-15	35	15223W	3-47	28	15306W	1-7	18
151580W	2-81	1	15158W	3-17	35	15225W	3-48	5	15307W	1-7	22
151580W	2-83	1	15158W	3-19	24	15225W	3-50	5	15307W	1-9	17
151580W	2-85	1	15158W	3-19	34	15225W	3-51	5	15308W	1-3	34
151581W	2-81	26	15158W	3-19	43	15225W	3-52	5	15308W	1-5	8
151581W	2-83	26	15158W	3-21	24	15225W	3-63	18	15308W	1-7	34
151581W	2-85	33	15158W	3-21	34	15225W	3-67	18	15314W	3-36	18
151583W	2-81	2	15158W	3-25	58	15225W	3-85	18	15314W	3-37	34
151583W	2-83	2	15158W	3-29	58	15225W	3-95	18	15316W	1-3	28
151583W	2-85	2	15158W	3-38	12	15225W	3-99	5	15316W	1-3	35
151584W	2-81	8	15158W	3-41	15	15225W	3-107	18	15316W	1-7	28
151584W	2-83	8	15158W	3-43	14	15225W	3-119	6	15316W	3-25	179
151584W	2-85	8	15158W	3-43	18	15225W	3-123	6	15316W	3-25	199
151588W	2-81	22	15158W	3-45	14	15225W	3-133	6	15316W	3-29	179
151588W	2-83	22	15158W	3-45	18	15225W	3-137	6	15316W	3-29	199
151589W	1-3	33	15158W	3-45	21	15225W	3-145	5	15319W	1-3	19
151589W	1-5	43	15158W	3-47	14	15225W	3-147	6	15319W	1-5	41
151589W	1-7	33	15158W	3-47	18	15226W	3-39	12	15319W	1-7	19
151589W	1-9	49	15160W	2-61	21	15240W	1-10	16	15319W	1-9	48
15158W	1-3	4	15160W	4-2	2	15240W	1-15	11	15320W	1-3	22
15158W	1-3	9	15160W	4-7	4	15240W	1-23	11	15320W	1-3	25
15158W	1-3	10	151646W	1-3	33	15240W	1-25	16	15320W	1-5	7
15158W	1-3	12	151646W	1-5	44	15240W	1-27	13	15336W	2-51	38
15158W	1-3	15	151646W	1-7	33	15240W	1-33	21	15336W	2-53	38
15158W	1-3	21	151646W	1-9	50	15240W	1-37	9	15468W	1-41	6
15158W	1-3	29	151646W	2-81	25	15240W	1-41	2	15468W	1-43	100
15158W	1-3	31	151646W	2-83	25	15240W	1-43	61	15483W	3-3	29
15158W	1-3	32	151646W	2-85	32	15240W	1-45	9	15483W	3-5	71
15158W	1-5	12	151646W	5-8	1	15240W	1-47	10	15483W	3-7	71
15158W	1-7	9	15166W	1-17	28	15240W	1-51	3	15483W	3-9	71
15158W	1-7	10	15166W	1-18	4	15240W	1-56	1	15483W	3-11	71
15158W	1-7	12	15166W	1-44	5	15240W	1-57	2	15483W	3-13	71
15158W	1-7	15	15166W	1-51	5	15240W	1-58	1	15483W	3-15	29
15158W	1-7	21	15166W	1-53	3	15240W	1-59	2	15483W	3-17	71
15158W	1-7	23	15166W	1-53	6	15240W	1-61	9	15483W	3-19	71
15158W	1-7	29	15166W	1-63	31	15240W	1-63	12	15483W	3-21	71
15158W	1-7	31	15166W	1-67	31	15240W	1-65	9	15483W	3-36	37
15158W	1-7	32	15166W	1-69	1.18	15240W	1-67	12	15483W	3-37	5
15158W	1-9	9	15166W	1-71	1	15240W	1-69	1.13	155491W	2-7	5
15158W	1-9	26	15166W	1-71	3	15240W	1-87	37	155492W	2-7	7
15158W	1-17	30	15166W	4-3	23	15240W	1-88	9	155493W	2-7	15
15158W	1-18	10	15166W	4-4	15	15246W	2-51	7	155494W	2-7	15
15158W	1-27	15	15166W	4-5	15	15246W	2-53	7	156133W	3-55	25
15158W	1-63	36	15166W	4-6	15	15246W	2-55	13	156133W	3-113	20
15158W	1-67	36	15168W	1-51	1	15246W	2-57	13	156223W	2-59	705
15158W	1-69	1.21	15168W	1-53	2	15250W	1-18	2	156223W	2-61	26
15158W	1-71	8	15168W	1-58	2	15259W	1-17	24	156223W	2-63	418
15158W	1-73	748	15168W	1-59	10	15259W	1-18	2	156223W	2-65	705
15158W	1-79	748	15168W	1-71	5	15259W	1-44	2	156223W	2-67	705

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156871W	3-119	35	16001W	2-31	9	16463W	3-19	23	16486W	3-3	55
156879W	1-51	6	16001W	2-33	9	16463W	3-21	23	16486W	3-5	2
15860W	3-35	9	16001W	4-3	9	16463W	3-25	37	16486W	3-5	33
15860W	3-36	7	16001W	4-4	4	16463W	3-29	37	16486W	3-5	46
15860W	3-37	11	16001W	4-5	6	164703W	3-5	33	16486W	3-5	51
15862W	2-27	12	16001W	4-6	6	164703W	3-7	32	16486W	3-7	2
15869W	2-27	16	16001W	4-7	1	164703W	3-9	32	16486W	3-7	16
15869W	2-29	16	16001W	4-8	9	164703W	3-11	32	16486W	3-7	32
15880W	1-11	12	16001W	4-9	7	164703W	3-17	33	16486W	3-7	44
15880W	1-55	12	16002W	4-7	16	164703W	3-19	32	16486W	3-7	51
15880W	1-83	12	16006W	4-2	4	164703W	3-25	187	16486W	3-9	2
15880W	2-51	24	16085W	1-33	32	164703W	3-29	187	16486W	3-9	16
15880W	2-53	24	16085W	3-41	14	16484W	3-3	13	16486W	3-9	32
15881W	2-77	4	16085W	3-45	22	16484W	3-3	15	16486W	3-9	44
15881W	5-16	3	16151W	3-3	36	16484W	3-3	36	16486W	3-9	51
15881W	5-17	5	16151W	3-5	36	16484W	3-3	36	16486W	3-11	2
15881W	5-18	5	16151W	3-7	35	16484W	3-3	37	16486W	3-11	16
15881W	6-4		16151W	3-9	35	16484W	3-5	10	16486W	3-11	32
15881W	6-4		16151W	3-11	35	16484W	3-5	14	16486W	3-11	44
15881W	6-5		16151W	3-13	35	16484W	3-5	36	16486W	3-11	51
15887W	1-13	10	16151W	3-15	36	16484W	3-5	37	16486W	3-13	2
15887W	1-15	30	16151W	3-17	36	16484W	3-7	11	16486W	3-13	16
15887W	1-21	4	16151W	3-19	35	16484W	3-7	15	16486W	3-13	32
15887W	1-23	1.10	16151W	3-21	35	16484W	3-7	35	16486W	3-13	44
15887W	1-28	4	16151W	3-25	185	16484W	3-7	36	16486W	3-13	51
15887W	1-39	1.9	16151W	3-25	205	16484W	3-9	11	16486W	3-15	31
15887W	2-5	13	16168W	3-96	5	16484W	3-9	15	16486W	3-15	44
15887W	2-49	43	16194W	1-41	7	16484W	3-9	35	16486W	3-15	53
15893W	1-47	18	16194W	1-43	101	16484W	3-9	36	16486W	3-15	55
15893W	2-23	21	16212W	3-41	9	16484W	3-11	11	16486W	3-17	2
15895W	1-3	26	16212W	3-43	29	16484W	3-11	15	16486W	3-17	33
15895W	1-5	17	16212W	3-45	29	16484W	3-11	35	16486W	3-17	45
15895W	1-7	26	16212W	3-47	29	16484W	3-11	36	16486W	3-17	51
15895W	1-9	15	162412W	1-18	4	16484W	3-13	11	16486W	3-19	2
15895W	5-8	2	162412W	1-27	2	16484W	3-13	15	16486W	3-19	16
15906W	2-81	3	162412W	1-88	2	16484W	3-13	35	16486W	3-19	32
15906W	2-83	3	16336W	2-93	2	16484W	3-13	36	16486W	3-19	44
15906W	2-85	3	16338W	3-75	6	16484W	3-15	13	16486W	3-19	51
15923W	3-152	18	16373W	2-89	1	16484W	3-15	15	16486W	3-21	2
15923W	3-153	18	16373W	2-90	1	16484W	3-15	36	16486W	3-21	16
15923W	3-154	17	16373W	2-91	11	16484W	3-15	36	16486W	3-21	32
15932W	3-152	20	16373W	2-92	11	16484W	3-15	37	16486W	3-21	44
15932W	3-153	20	16377W	3-38	7	16484W	3-17	10	16486W	3-21	51
15932W	3-154	19	16379W	3-3	20	16484W	3-17	14	16487W	2-49	39
15962W	3-36	17	16379W	3-5	23	16484W	3-17	36	16487W	3-3	17
15962W	3-37	7	16379W	3-7	21	16484W	3-17	37	16487W	3-3	50
15963W	3-3	51	16379W	3-9	21	16484W	3-19	11	16487W	3-5	15
15963W	3-5	49	16379W	3-25	116	16484W	3-19	15	16487W	3-5	17
15963W	3-7	49	16379W	3-29	116	16484W	3-19	35	16487W	3-5	48
15963W	3-9	49	16379W	3-41	6	16484W	3-19	36	16487W	3-7	18
15963W	3-11	49	16379W	3-43	2	16484W	3-21	11	16487W	3-7	47
15963W	3-13	49	16379W	3-45	2	16484W	3-21	15	16487W	3-7	48
15963W	3-15	51	16379W	3-47	2	16484W	3-21	35	16487W	3-9	22
15963W	3-17	49	16445W	3-63	13	16484W	3-21	36	16487W	3-9	47
15963W	3-19	49	16445W	3-67	13	16484W	3-35	5	16487W	3-9	48
15963W	3-21	49	16445W	3-85	13	16484W	3-36	8	16487W	3-11	18
159906W	2-59	706	16445W	3-95	13	16484W	3-37	10	16487W	3-11	47
159906W	2-61	27	16445W	3-107	13	16484W	3-37	37	16487W	3-11	48
159906W	2-63	409	16445W	3-119	14	16485W	3-3	11	16487W	3-13	22
159906W	2-65	706	16445W	3-123	14	16485W	3-5	16	16487W	3-13	47
159906W	2-67	706	16445W	3-133	14	16485W	3-7	17	16487W	3-13	48
159940W	2-85	19	16445W	3-137	14	16485W	3-9	17	16487W	3-15	17
159940W	5-17	3	16445W	3-147	14	16485W	3-11	17	16487W	3-15	50
159940W	5-18	3	16463W	3-3	21	16485W	3-13	17	16487W	3-17	15
159940W	6-4		16463W	3-5	22	16485W	3-15	11	16487W	3-17	17
159940W	6-5		16463W	3-7	23	16485W	3-17	16	16487W	3-17	48
159W	3-39	6	16463W	3-9	23	16485W	3-19	17	16487W	3-19	18
159W	3-41	13	16463W	3-11	23	16485W	3-21	17	16487W	3-19	47
159W	3-43	27	16463W	3-13	23	16486W	3-3	31	16487W	3-19	48
159W	3-45	27	16463W	3-15	21	16486W	3-3	44	16487W	3-21	22

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16487W	3-21	48	16561W	3-5	45	16805W	3-48	17	16830W	3-29	127
16497W	3-147	26	16561W	3-7	43	16805W	3-49	6	16830W	3-41	14
165338W	2-59	718	16561W	3-7	44	16805W	3-50	17	16830W	3-43	17
165338W	2-61	2	16561W	3-9	43	16805W	3-51	17	16830W	3-47	17
165338W	2-63	421	16561W	3-9	44	16805W	3-52	17	16833W	1-33	62
165338W	2-65	718	16561W	3-11	43	16805W	3-55	23	16836W	3-55	12
165338W	2-67	718	16561W	3-11	44	16805W	3-63	27	16836W	3-59	13
16541W	3-3	13	16561W	3-13	32	16805W	3-65	24	16836W	3-79	13
16541W	3-3	36	16561W	3-13	43	16805W	3-67	27	16836W	3-109	12
16541W	3-5	14	16561W	3-13	44	16805W	3-67	27	16836W	3-113	12
16541W	3-5	36	16561W	3-15	44	16805W	3-85	27	16836W	3-115	13
16541W	3-7	15	16561W	3-17	45	16805W	3-93	21	16836W	3-128	13
16541W	3-7	35	16561W	3-19	43	16805W	3-95	27	16836W	3-129	13
16541W	3-9	15	16561W	3-19	44	16805W	3-101	24	16836W	3-149	12
16541W	3-9	35	16561W	3-21	32	16805W	3-107	27	16848W	3-86	6
16541W	3-11	15	16561W	3-21	43	16805W	3-113	18	16848W	3-88	6
16541W	3-13	15	16561W	3-21	44	16805W	3-119	26	168718W	1-41	8
16541W	3-15	13	16561W	3-25	10	16805W	3-121	18	168718W	1-43	102
16541W	3-15	36	16561W	3-25	207	16805W	3-123	26	16923W	3-25	38
16541W	3-17	14	16561W	3-29	10	16805W	3-135	18	16923W	3-29	38
16541W	3-17	36	16561W	3-29	207	16805W	3-137	26	16948W	3-3	4
16541W	3-19	15	16594W	3-38	1	16805W	3-139	15	16948W	3-5	5
16541W	3-19	35	16597W	1-17	27	16805W	3-143	18	16948W	3-7	5
16541W	3-21	15	16597W	1-33	57	16805W	3-147	26	16948W	3-9	5
16541W	3-25	43	16597W	1-37	20	16813W	3-41	14	16948W	3-11	5
16541W	3-25	189	16597W	2-49	25	16815W	1-7	38	16948W	3-13	5
16541W	3-29	43	16597W	3-5	54	16820W	1-18	10	16948W	3-15	4
16541W	3-29	189	16597W	3-17	54	16820W	1-71	8	16948W	3-17	5
16543W	3-3	31	16597W	3-19	21	16828W	1-43	65	16948W	3-19	5
16543W	3-15	31	16597W	3-21	21	16828W	1-63	22	16948W	3-21	5
16543W	3-25	14	16597W	3-25	126	16828W	1-67	22	16948W	3-25	68
16543W	3-29	14	16597W	3-29	126	16828W	2-61	32	16948W	3-29	68
165489W	3-7	56	16597W	3-109	23	16828W	3-3	5	169671W	1-21	29
165489W	3-9	56	16597W	3-149	18	16828W	3-5	6	169671W	1-73	738
165489W	3-11	56	16598W	3-7	43	16828W	3-7	7	169671W	1-79	738
165489W	3-13	56	16598W	3-9	43	16828W	3-9	7	169671W	2-5	12
165489W	3-19	56	16598W	3-11	43	16828W	3-11	7	169671W	2-7	12
165489W	3-21	56	16598W	3-13	43	16828W	3-13	7	169671W	2-9	13
165489W	3-25	16	16598W	3-19	43	16828W	3-15	5	169671W	2-11	13
165489W	3-29	16	16598W	3-21	43	16828W	3-17	6	169671W	2-11	13
165504W	3-85	25	16598W	3-25	17	16828W	3-19	7	169671W	2-13	13
165504W	3-93	18	16598W	3-29	17	16828W	3-21	7	169671W	2-13	13
165504W	3-95	25	16602W	1-89	6	16828W	3-25	63	169671W	2-19	13
165504W	3-133	22	166396W	1-10	6	16828W	3-29	63	169671W	2-21	13
165504W	3-135	16	16645W	4-2	2	16828W	3-85	27	169671W	2-23	13
165504W	3-137	22	166857W	1-45	13	16828W	3-87	5	169671W	2-41	13
165505W	3-63	25	166857W	1-47	21	16828W	3-89	5	169671W	2-45	13
165505W	3-67	25	166857W	3-34	40	16828W	3-102	2	169671W	2-51	16
165505W	3-119	22	166905W	3-35	18	16828W	3-104	8	169671W	2-53	16
165505W	3-123	22	166905W	3-36	24	16828W	3-105	11	169671W	2-53	16
16550W	3-7	36	166905W	3-37	29	16828W	3-111	3	169671W	2-53	42
16550W	3-9	36	166911W	3-35	19	16828W	3-133	26	169671W	2-55	6
16550W	3-19	36	166911W	3-36	23	16828W	3-150	3	169671W	2-57	6
16550W	3-25	191	166911W	3-37	28	16829W	1-33	53	169671W	2-59	738
16559W	3-3	15	16741W	3-5	40	16829W	1-37	15	169671W	2-61	3
16559W	3-5	10	16741W	3-7	39	16829W	2-77	21	169671W	2-65	738
16559W	3-7	11	16741W	3-11	39	16829W	2-81	28	169671W	2-67	738
16559W	3-9	11	16741W	3-17	40	16829W	2-83	28	16982W	3-3	4
16559W	3-11	11	16741W	3-19	39	16829W	2-85	35	16982W	3-3	49
16559W	3-13	11	16805W	3-3	1	16829W	2-93	2	16982W	3-5	5
16559W	3-15	15	16805W	3-7	54	16829W	3-7	43	16982W	3-5	47
16559W	3-17	10	16805W	3-9	54	16829W	3-11	43	16982W	3-7	5
16559W	3-19	11	16805W	3-11	54	16829W	3-19	43	16982W	3-9	5
16559W	3-21	11	16805W	3-13	54	16830W	1-7	10	16982W	3-11	5
16559W	3-25	46	16805W	3-15	1	16830W	1-17	29	16982W	3-13	5
16559W	3-25	177	16805W	3-19	54	16830W	1-27	14	16982W	3-15	4
16559W	3-25	197	16805W	3-21	54	16830W	2-68	3	16982W	3-15	49
16559W	3-29	46	16805W	3-25	4	16830W	2-69	3	16982W	3-17	5
16559W	3-29	177	16805W	3-29	4	16830W	3-19	24	16982W	3-17	47
16559W	3-29	197	16805W	3-41	14	16830W	3-21	24	16982W	3-19	5



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16984W	2-49	23	172810W	2-77	7	178402W	2-85	34	18425W	3-119	17
16987W	2-3	24	172810W	1-5	26	178402W	3-38	11	18425W	3-123	17
16987W	3-3	33	17309W	3-3	64	178403W	1-3	4	18425W	3-133	17
16987W	3-3	73	17309W	3-5	64	178403W	1-3	21	18425W	3-135	4
16987W	3-5	75	17309W	3-7	64	178403W	1-3	29	18425W	3-137	17
16987W	3-7	74	17309W	3-9	64	178403W	1-3	32	18425W	3-139	4
16987W	3-9	74	17309W	3-11	64	178403W	1-5	20	18425W	3-145	7
16987W	3-11	74	17309W	3-13	64	178403W	1-7	21	18425W	3-147	17
16987W	3-11	80	17309W	3-15	64	178403W	1-7	29	18460W	3-99	30
16987W	3-13	74	17309W	3-17	64	178403W	1-7	32	18460W	3-145	30
16987W	3-13	80	17309W	3-19	64	178403W	1-9	47	18497W	3-3	45
16987W	3-15	33	17309W	3-21	64	178576W	3-41	1	18497W	3-7	43
16987W	3-15	73	17309W	3-25	92	17882W	1-73	734	18497W	3-9	43
16987W	3-17	75	17309W	3-29	92	17882W	1-75	6	18497W	3-11	43
16987W	3-19	74	173607W	4-3	3	17882W	1-77	451	18497W	3-13	43
16987W	3-21	74	173607W	4-4	17	17882W	1-79	734	18497W	3-15	45
16987W	3-21	81	174559W	2-72	2	17882W	1-81	6	18497W	3-19	43
16987W	3-25	176	174559W	2-73	2	17882W	2-59	734	18497W	3-21	43
16987W	3-25	196	174559W	2-74	12	17882W	2-65	734	18497W	3-57	27
16987W	3-25	212	174559W	2-75	12	17882W	2-67	734	18497W	3-99	18
16987W	3-29	176	174561W	2-74	13	179443W	1-7	4	18497W	3-110	27
16987W	3-29	196	174561W	2-75	13	179443W	1-9	43	18497W	3-145	18
16987W	3-29	212	174561W	5-11	7	179443W	1-73	736	18498W	3-5	44
16989W	3-3	16	174561W	6-3		179443W	1-77	414	18498W	3-17	44
16989W	3-5	18	174802W	2-79	9	179443W	1-79	736	18513W	3-49	3
16989W	3-7	19	174802W	2-81	14	179443W	2-59	736	18513W	3-140	4
16989W	3-9	20	174802W	2-83	14	179443W	2-65	736	18515W	3-49	4
16989W	3-11	19	175646W	1-3	30	179443W	2-67	736	18515W	3-55	10B
16989W	3-13	19	175646W	1-5	27	179867W	2-17	1	18515W	3-57	29
16989W	3-15	16	175646W	1-7	30	179867W	2-37	1	18515W	3-59	11
16989W	3-17	18	175646W	1-9	33	18001W	1-75	3	18515W	3-72	4
16989W	3-19	19	175646W	2-77	8	18001W	1-79	1	18515W	3-79	11
16989W	3-21	19	175647W	1-3	30	18001W	1-81	3	18515W	3-86	5
16989W	3-25	39	175647W	1-5	28	18001W	3-25	45	18515W	3-88	5
16989W	3-25	172	175647W	1-7	30	18001W	3-29	45	18515W	3-102	10
16989W	3-29	39	175647W	1-9	34	18003W	1-18	8	18515W	3-109	10B
16989W	3-29	172	175647W	2-77	9	18004W	1-13	13	18515W	3-110	29
16989W	3-29	190	175648W	1-3	30	18004W	1-15	40	18515W	3-113	10B
16989W	3-29	208	175648W	1-5	29	18004W	1-17	4	18515W	3-115	8
16997W	1-63	19	175648W	1-7	30	18004W	1-18	1	18515W	3-115	11
16997W	1-67	19	175648W	1-9	35	18004W	1-25	5	18515W	3-124	4
16997W	2-29	24	175648W	2-77	10	18004W	1-27	4	18515W	3-128	8
16997W	2-31	6	177949W	2-93	2	18004W	1-29	5	18515W	3-128	11
16997W	2-33	6	177951W	3-3	66	18004W	1-88	4	18515W	3-129	8
16997W	2-35	6	177951W	3-5	66	18005W	1-17	1	18515W	3-129	11
17038W	3-25	173	177951W	3-7	66	18005W	1-18	5	18515W	3-149	10B
17038W	3-29	173	177951W	3-9	66	18005W	1-25	2	18518W	3-124	2
17059W	2-61	19	177951W	3-11	66	18005W	1-27	1	18526W	3-102	8
17059W	3-3	72	177951W	3-13	66	18005W	1-29	2	18528W	3-72	2
17059W	3-5	74	177951W	3-15	66	18005W	1-88	1	18528W	3-86	3
17059W	3-7	73	177951W	3-17	66	18007W	1-41	3	18528W	3-88	3
17059W	3-9	73	177951W	3-19	66	18007W	1-43	54	18530W	3-96	6
17059W	3-11	73	177951W	3-21	66	18007W	1-44	3	18535W	3-63	37
17059W	3-11	80	177951W	3-25	90	18127W	3-116	3	18535W	3-119	39
17059W	3-13	73	177951W	3-29	90	18127W	3-117	3	18542W	3-7	39
17059W	3-13	80	178402W	1-3	9	18127W	3-125	3	18542W	3-9	39
17059W	3-15	72	178402W	1-3	10	18127W	3-156	3	18542W	3-11	39
17059W	3-17	74	178402W	1-3	12	18127W	3-157	3	18542W	3-13	39
17059W	3-19	73	178402W	1-3	14	182209W	1-15	45	18542W	3-19	39
17059W	3-21	73	178402W	1-3	31	182209W	1-15	83	18542W	3-21	39
17059W	3-21	80	178402W	1-5	11	18425W	3-48	9	18586W	1-9	53
17059W	3-25	211	178402W	1-7	9	18425W	3-50	9	18588W	1-7	39
17059W	3-29	211	178402W	1-7	12	18425W	3-51	9	18588W	2-81	10
170987W	3-35	23	178402W	1-7	14	18425W	3-52	9	18588W	2-83	10
170987W	3-36	21	178402W	1-7	31	18425W	3-63	10	18588W	2-85	10
170987W	3-37	25	178402W	1-9	10	18425W	3-67	10	18588W	3-41	14
171252W	3-31		178402W	1-9	25	18425W	3-85	10	18588W	3-45	17
172808W	2-77	18	178402W	1-15	43	18425W	3-93	6	18591W	3-3	22
172810W	1-3	30	178402W	2-77	5	18425W	3-95	10	18591W	3-5	20
172810W	1-7	30	178402W	2-81	27	18425W	3-99	7	18591W	3-7	24

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18591W	3-25	117	190930W	3-149	9	196000W	3-36	28	196128W	3-128	7
18591W	3-29	117	191534W	3-49	5	196000W	3-37	23	196128W	3-129	7
185973W	1-3	11	191534W	3-72	3	196002W	3-35	17	196128W	3-133	13
185973W	1-5	18	191534W	3-86	4	196002W	3-36	25	196128W	3-135	9
185974W	1-3	11	191534W	3-88	4	196002W	3-37	30	196128W	3-137	13
185974W	1-5	19	191534W	3-102	9	196003W	3-35	26	196128W	3-139	9
185974W	5-10	3	191534W	3-124	3	196003W	3-36	15	196128W	3-143	8
185990W	1-7	11	192407W	3-63	21	196003W	3-37	33	196128W	3-145	8
185990W	5-4	2	192407W	3-67	21	196004W	3-35	10	196128W	3-147	13
185990W	5-5	2	192407W	3-85	21	196004W	3-36	9	196128W	3-149	7
185990W	5-8	3	192407W	3-93	16	196004W	3-37	19	196128W	3-159	12
185990W	6-2		192407W	3-95	21	196006W	3-35	2	196129W	3-101	14
185990W	6-2		192407W	3-99	27	196006W	3-36	16	196129W	3-121	12
18601W	4-7	3	192407W	3-107	21	196006W	3-37	8	196129W	3-143	12
18620W	2-3	1	192407W	3-119	4	196007W	3-35	6	196132W	3-63	7
18620W	2-3	15	192407W	3-123	4	196009W	3-35	15	196132W	3-67	7
18620W	2-29	1	192407W	3-133	4	196009W	3-36	26	196132W	3-85	7
18620W	2-29	15	192407W	3-135	14	196009W	3-37	31	196132W	3-95	7
18620W	2-31	17	192407W	3-137	4	196013W	3-35	3	196132W	3-107	7
18620W	2-33	17	192407W	3-145	27	196022W	3-3	7	196132W	3-119	7
18620W	2-33	30	192407W	3-147	4	196022W	3-5	8	196132W	3-123	7
18620W	2-35	17	192948W	1-53	2	196022W	3-7	9	196132W	3-133	7
18620W	2-35	30	192949W	1-51	4	196022W	3-9	9	196132W	3-137	7
18620W	2-36	12	193912W	2-87	4	196022W	3-11	9	196132W	3-147	7
18622W	1-33	7	193912W	2-88	22	196022W	3-13	9	196134W	3-63	12
18622W	1-37	4	194049W	3-25	24	196022W	3-15	7	196134W	3-67	12
18662W	1-63	30	194049W	3-29	24	196022W	3-17	8	196134W	3-85	12
18662W	1-67	30	194090W	3-3	42	196022W	3-19	9	196134W	3-95	12
18668W	4-5	14	194090W	3-5	41	196022W	3-21	9	196134W	3-107	12
18668W	4-6	14	194090W	3-7	40	196022W	3-25	62	196134W	3-119	9
18669W	4-3	22	194090W	3-9	40	196022W	3-29	62	196134W	3-123	9
18669W	4-4	14	194090W	3-11	40	196022W	5-8	4	196134W	3-133	9
18717W	3-57	21	194090W	3-13	40	196025W	2-87	13	196134W	3-137	9
18717W	3-69	2.6	194090W	3-15	42	196025W	2-88	4	196134W	3-147	9
18717W	3-69	3.7	194090W	3-17	41	196035W	3-137	23	196144W	3-55	3
18717W	3-71	2.8	194090W	3-19	40	196114W	3-48	4	196144W	3-55	15
18717W	3-71	3.6	194090W	3-21	40	196114W	3-50	4	196144W	3-59	3
18717W	3-73	39	19581W	3-3	58	196114W	3-51	4	196144W	3-59	16
18717W	3-73	65	19581W	3-5	59	196114W	3-52	4	196144W	3-65	1A
18717W	3-80	22	19581W	3-7	58	196114W	3-63	19	196144W	3-65	5A
18717W	3-81	66	19581W	3-9	58	196114W	3-67	19	196144W	3-79	3
18717W	3-83	2.8	19581W	3-11	58	196114W	3-85	19	196144W	3-79	16
18717W	3-83	3.6	19581W	3-13	58	196114W	3-95	19	196144W	3-101	1B
18717W	3-87	8	19581W	3-15	58	196114W	3-107	19	196144W	3-101	5B
18717W	3-89	8	19581W	3-17	59	196114W	3-119	10	196144W	3-109	3
18717W	3-103	1.42	19581W	3-19	58	196114W	3-123	10	196144W	3-109	15
18717W	3-105	35	19581W	3-21	58	196114W	3-133	10	196144W	3-113	3
18717W	3-110	21	19581W	3-25	54	196114W	3-137	10	196144W	3-115	3
18717W	3-111	21	19581W	3-29	54	196114W	3-147	10	196144W	3-128	3
18717W	3-130	12	195893W	3-7	70	196128W	3-48	10	196144W	3-129	3
18717W	3-131	51	195893W	3-9	70	196128W	3-50	10	196144W	3-143	3B
18717W	3-150	21	195893W	3-11	70	196128W	3-51	10	196144W	3-149	3
18717W	3-151	32	195893W	3-13	70	196128W	3-52	10	196280W	1-3	2
18717W	3-152	22	195893W	3-19	70	196128W	3-55	7	196280W	1-5	3
18717W	3-153	22	195893W	3-21	70	196128W	3-59	7	196280W	1-7	2
18717W	3-154	23	195990W	3-36	31	196128W	3-63	11	196280W	1-9	3
18717W	3-155	18	195991W	3-35	4	196128W	3-65	11	196280W	4-3	2
18738W	3-33	38	195991W	3-36	4	196128W	3-67	11	196280W	4-4	18
18738W	3-34	38	195992W	3-35	7	196128W	3-79	7	196376W	2-72	7
18738W	3-130	19	195992W	3-36	5	196128W	3-85	11	196376W	2-73	7
187452W	3-38	6	195992W	3-37	9	196128W	3-93	11	196376W	2-74	15
187639W	3-39	7	195993W	3-35	8	196128W	3-95	11	196376W	2-75	15
187800W	2-3	2.5	195993W	3-36	6	196128W	3-99	8	196378W	2-72	10
190930W	3-55	9	195993W	3-37	12	196128W	3-101	11	196378W	2-73	10
190930W	3-59	9	195995W	3-35	12	196128W	3-107	11	196378W	2-74	5
190930W	3-79	9	195995W	3-36	11	196128W	3-109	7	196378W	2-75	5
190930W	3-109	9	195995W	3-37	15	196128W	3-113	7	196380W	2-7	5
190930W	3-113	9	195997W	3-35	22	196128W	3-115	7	196381W	2-7	5
190930W	3-115	9	195997W	3-36	30	196128W	3-119	13	196435W	2-89	16
190930W	3-128	9	195997W	3-37	24	196128W	3-121	8	196435W	2-90	16

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196435W	2-92	13	199594W	2-87	1	213138W	2-37	14	221707W	3-102	4
196465W	3-119	3	199594W	2-88	24	213139W	2-37	13	221707W	3-104	10
196465W	3-123	3	200454W	1-73	747	21420W	1-3	18	221707W	3-105	14
196465W	3-133	3	200454W	1-79	747	21420W	1-5	42	221707W	3-111	5
196465W	3-137	3	200454W	2-59	747	21420W	1-7	18	221707W	3-150	5
196465W	3-147	3	200454W	2-65	747	21420W	1-9	51	221710W	1-63	5
196468W	3-119	8	200454W	2-67	747	21420W	2-49	18	221710W	1-67	5
196468W	3-123	8	201847W	3-95	38	21420W	2-51	3	221710W	1-69	1.40
196468W	3-133	8	201847W	3-137	34	216224W	1-51	1	221710W	2-31	5
196468W	3-137	8	201848W	3-137	24	216225W	1-51	3	221710W	2-35	5
196468W	3-147	8	201858W	1-3	20	216542W	2-25	9	221717W	1-9	30
196469W	3-139	1	201858W	1-5	39	217206W	3-25	98	221717W	2-85	31
198053W	2-17	12	201858W	1-7	20	217221W	3-85	29	221720W	1-13	5
198063W	3-3	37	201858W	1-9	45	217221W	3-86	7	221720W	1-15	5
198063W	3-5	37	201861W	1-3	5	217221W	3-88	7	221720W	1-23	5
198063W	3-15	37	201861W	1-5	33	217221W	3-133	27	221720W	1-33	17
198063W	3-17	37	201862W	1-3	5	217613W	2-25	3	221720W	1-37	32
198385W	3-3	35	201862W	1-5	34	217614W	2-25	1	221721W	1-21	13
198385W	3-5	35	201862W	5-10	5	217615W	1-51	2	221721W	1-43	59
198385W	3-7	34	201871W	5-10		217616W	1-51	7	221721W	1-45	2
198385W	3-9	34	203232W	3-119	23	219172W	3-3	56	221721W	1-47	2
198385W	3-11	34	203233W	1-7	20	219172W	3-5	1	221721W	1-49	4
198385W	3-13	34	203233W	1-9	45	219172W	3-7	1	221721W	1-53	7
198385W	3-15	35	203239W	2-81	9	219172W	3-9	1	221721W	1-58	3
198385W	3-17	35	203239W	2-83	9	219172W	3-11	1	221721W	1-59	4
198385W	3-19	34	203239W	2-85	9	219172W	3-13	1	221721W	1-61	11
198385W	3-21	34	205004W	3-93	18	219172W	3-15	56	221721W	1-63	14
198385W	3-25	57	205004W	3-135	16	219172W	3-17	1	221721W	1-65	11
198385W	3-29	57	205006W	3-107	25	219172W	3-19	1	221721W	1-67	14
198928W	2-17	11	205006W	3-147	22	219172W	3-21	1	221721W	1-69	1.15
198929W	1-41	2	209639W	3-3	2	219172W	3-25	1	221721W	1-71	3
198929W	1-43	52	209639W	3-5	3	219172W	3-29	1	221721W	1-73	744
198929W	1-44	2	209639W	3-7	3	221336W	4-7	15	221721W	1-75	5
198929W	1-87	35	209639W	3-9	3	221336W	4-8	12	221721W	1-77	454
198929W	2-51	9	209639W	3-11	3	221336W	4-9	10	221721W	1-79	744
198929W	2-53	9	209639W	3-13	3	221371W	1-41	1	221721W	1-81	5
198929W	2-55	11	209639W	3-15	2	221371W	1-44	1	221721W	1-87	20
198929W	2-57	11	209639W	3-17	3	221373W	1-56	2	221721W	2-49	3
198930W	1-44	1	209639W	3-19	3	221373W	1-57	3	221721W	2-59	744
198930W	1-45	4	209639W	3-21	3	221466W	2-3	19	221721W	2-65	744
198930W	1-47	4	209639W	3-25	70	221466W	2-27	20	221721W	2-67	744
198931W	2-17	13	209639W	3-29	70	221466W	2-29	19	221723W	1-45	6
19901W	2-89	5	21014W	2-74	13	221471W	2-27	20	221723W	1-47	7
19901W	2-91	15B	21014W	2-75	13	221507W	1-73	5	221724W	1-13	6
19928W	1-11	10	21014W	5-11	8	221507W	1-79	3	221724W	2-49	8
19928W	1-55	10	21014W	6-3		221507W	1-79	25	221725W	1-49	1
19928W	1-83	10	21042W	2-59	725	221507W	1-85	1.25	221725W	1-53	2
19928W	2-51	36	21042W	2-61	8	221507W	2-61	34	221725W	1-58	2
19928W	2-53	36	21042W	2-63	432	221507W	2-61	35	221725W	1-59	3
19929W	1-17	13	21042W	2-65	725	221563W	2-49	37	221725W	1-61	10
19929W	1-25	9	21042W	2-67	725	221577W	2-77	15	221725W	1-63	13
19929W	1-27	8	21043W	2-59	724	221650W	2-85	30	221725W	1-65	10
19929W	1-29	9	21043W	2-61	6	221657W	1-13	11	221725W	1-67	13
19929W	1-33	42	21043W	2-63	431	221657W	1-15	38	221725W	1-69	1.16
19929W	1-37	11	21043W	2-65	724	221691W	1-51	8	221725W	1-73	743
19929W	1-43	57	21043W	2-67	724	221694W	1-13	3	221725W	1-75	2
19929W	1-47	11	210848W	3-25	271	221694W	2-49	5	221725W	1-75	8
19929W	1-87	4	210848W	3-29	271	221695W	1-73	745	221725W	1-77	5
19929W	2-5	7	210849W	1-73	751	221695W	1-75	4	221725W	1-77	452
19929W	2-9	15	210849W	1-77	456	221695W	1-77	453	221725W	1-79	5
19929W	2-11	15	210849W	1-79	751	221695W	1-79	745	221725W	1-79	743
19929W	2-13	15	210849W	2-59	751	221695W	1-81	4	221725W	1-81	2
19929W	2-15	7	210849W	2-61	20	221695W	2-59	745	221725W	1-81	8
19929W	2-19	15	210849W	2-65	751	221695W	2-65	745	221725W	1-85	1.12
19929W	2-21	15	210849W	2-67	751	221695W	2-67	745	221725W	1-87	12
19929W	2-23	15	211234W	1-18	2	221701W	1-13	4	221725W	2-59	743
19929W	2-25	4	213035W	1-75	2	221701W	1-15	4	221725W	2-65	743
19929W	2-39	15	213035W	1-77	2	221701W	1-23	4	221725W	2-67	743
19929W	2-41	15	213035W	1-79	2	221703W	3-104	4	221767W	1-15	48
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221771W	1-15	85	223453W	1-59	1	225094W	2-35	8	225245W	3-21	12
221771W	1-33	31	223453W	1-61	6	225094W	2-59	735	225245W	3-25	32
221771W	1-37	14	223453W	1-63	9	225094W	2-61	18	225245W	3-29	32
221772W	1-37	801	223453W	1-65	6	225094W	2-65	735	225246W	3-3	8
221775W	1-21	19	223453W	1-67	9	225094W	2-67	735	225246W	3-5	9
221775W	1-33	61	223453W	1-69	1.37	225096W	2-27	17	225246W	3-7	10
221775W	2-87	2	224023W	1-7	24	225097W	2-3	18	225246W	3-9	10
221775W	2-88	25	224023W	1-9	16	225097W	2-27	18	225246W	3-11	10
221777W	1-13	12	224024W	1-7	6	225097W	2-29	18	225246W	3-13	10
221777W	1-15	39	224779W	1-7	5	225232W	3-3	50	225246W	3-15	8
221777W	1-21	15	224779W	1-9	41	225232W	3-5	48	225246W	3-17	9
221780W	1-10	13	224780W	1-7	5	225232W	3-7	48	225246W	3-19	10
221780W	1-11	15	224780W	1-9	42	225232W	3-9	48	225246W	3-21	10
221780W	1-13	7	224780W	5-8	5	225232W	3-11	48	225246W	3-25	29
221780W	1-15	7	224788W	2-89	5	225232W	3-13	48	225246W	3-29	29
221780W	1-21	12	224789W	2-90	5	225232W	3-15	50	225255W	1-7	24
221780W	1-23	7	224790W	2-89	14	225232W	3-17	48	225255W	1-9	21
221780W	1-25	14	224790W	2-90	14	225232W	3-19	48	225256W	1-7	24
221780W	1-27	10	224790W	2-91	1	225232W	3-21	48	225256W	1-9	22
221780W	1-28	3	224790W	2-92	1	225232W	3-25	180	225257W	1-7	24
221780W	1-29	14	224791W	2-74	9	225232W	3-25	200	225257W	1-9	23
221780W	1-33	16	224791W	2-75	9	225232W	3-29	180	225259W	1-7	6
221780W	1-37	25	224793W	2-89	3	225232W	3-29	200	225260W	1-7	6
221780W	1-45	3	224793W	2-90	3	225233W	3-3	67	225261W	1-7	6
221780W	1-47	3	224793W	2-91	9	225233W	3-5	67	225262W	2-74	20
221780W	1-53	1	224793W	2-92	9	225233W	3-7	65	225262W	2-75	20
221780W	1-53	7	224793W	5-11	1.4	225233W	3-9	65	225262W	5-14	5
221780W	1-55	16	224793W	6-3		225233W	3-11	65	225262W	6-4	
221780W	1-61	13	224794W	2-89	2	225233W	3-13	65	225264W	1-7	23
221780W	1-63	16	224794W	2-90	2	225233W	3-15	67	225264W	1-9	18
221780W	1-65	13	224794W	2-91	10	225233W	3-17	67	225269W	2-87	3
221780W	1-67	16	224794W	2-92	10	225233W	3-19	65	225269W	2-88	23
221780W	1-69	1.14	224796W	3-30	18	225233W	3-21	65	225272W	2-87	8
221780W	1-83	15	224796W	3-31	18	225233W	3-25	84	225272W	2-88	5
221780W	1-87	21	224796W	3-32	17	225233W	3-29	84	225273W	2-70	4
221780W	1-88	6	224798W	1-3	16	225235W	3-30		225273W	2-71	4
221780W	2-49	6	224798W	1-5	31	225241W	3-5	29	225701W	3-3	52
221786W	1-17	10	224798W	1-7	16	225241W	3-17	29	225701W	3-5	50
221867W	3-152	14	224798W	1-9	37	225243W	3-3	34	225701W	3-7	50
221867W	3-153	14	224798W	3-38	9	225243W	3-5	34	225701W	3-9	50
221867W	3-154	13	224799W	1-3	17	225243W	3-7	33	225701W	3-11	50
2221724W	1-21	7	224799W	1-5	32	225243W	3-9	33	225701W	3-13	50
222381W	3-25	25	224799W	1-7	17	225243W	3-11	33	225701W	3-15	52
222381W	3-29	25	224799W	1-9	38	225243W	3-13	33	225701W	3-17	50
222505W	3-3	53	224799W	1-33	39	225243W	3-15	34	225701W	3-19	50
222505W	3-5	51	224799W	1-37	31	225243W	3-17	34	225701W	3-21	50
222505W	3-7	51	224799W	1-47	23	225243W	3-19	33	225701W	3-25	182
222505W	3-9	51	224799W	1-63	27	225243W	3-21	33	225701W	3-25	202
222505W	3-11	51	224799W	1-67	27	225243W	3-25	89	225701W	3-29	182
222505W	3-13	51	224799W	3-38	10	225243W	3-29	89	225701W	3-29	202
222505W	3-15	53	224799W	5-8	6	225244W	3-3	12	225703W	3-3	54
222505W	3-17	51	224799W	5-10	4	225244W	3-5	12	225703W	3-5	52
222505W	3-19	51	225065W	1-10	8	225244W	3-7	13	225703W	3-7	52
222505W	3-21	51	225065W	1-39	1.4	225244W	3-9	13	225703W	3-9	52
222505W	3-25	178	225065W	1-71	1	225244W	3-11	13	225703W	3-11	52
222505W	3-25	198	225068W	1-71	5	225244W	3-13	13	225703W	3-13	52
222505W	3-29	178	225069W	1-71	6	225244W	3-15	12	225703W	3-15	54
222505W	3-29	198	225071W	1-41	1	225244W	3-17	12	225703W	3-17	52
222679W	2-59	709	225071W	1-43	53	225244W	3-19	13	225703W	3-19	52
222679W	2-61	30	225071W	1-71	2	225244W	3-21	13	225703W	3-21	52
222679W	2-63	411	225072W	2-37	12	225244W	3-25	67	225703W	3-25	33
222679W	2-65	709	225089W	2-27	19	225244W	3-29	67	225703W	3-29	33
222679W	2-67	709	225094W	1-63	21	225245W	3-3	10	225704W	3-3	3
222901W	3-107	32	225094W	1-67	21	225245W	3-5	11	225704W	3-15	3
222901W	3-147	32	225094W	1-69	1.23	225245W	3-7	12	225711W	3-3	36
223453W	1-51	1	225094W	1-73	735	225245W	3-9	12	225711W	3-5	36
223453W	1-51	3	225094W	1-79	735	225245W	3-11	12	225711W	3-7	35
223453W	1-51	5	225094W	2-3	26	225245W	3-13	12	225711W	3-9	35
223453W	1-56	1	225094W	2-29	26	225245W	3-15	10	225711W	3-11	35
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225711W	3-19	35	226450W	3-7	22	2300563W	1-81	10	2300966W	1-79	25
225711W	3-21	35	226450W	3-9	22	2300567W	2-59	711	2300995W	3-43	24
225711W	3-25	184	226450W	3-11	22	2300567W	2-65	711	2300995W	3-45	24
225711W	3-25	204	226450W	3-13	22	2300567W	2-67	711	2300995W	3-47	24
225711W	3-29	184	226450W	3-15	18	230064W	1-10		2300995W	3-48	
225711W	3-29	204	226450W	3-17	21	230064W	1-11		2300995W	3-50	
225712W	3-3	49	226450W	3-19	22	230064W	1-13		2300995W	3-52	
225712W	3-5	47	226450W	3-21	22	230064W	1-15		2300995W	3-55	19
225712W	3-7	47	226450W	3-25	183	230064W	1-25		2300995W	3-59	21
225712W	3-9	47	226450W	3-25	203	230064W	1-27		2300995W	3-63	
225712W	3-11	47	226450W	3-29	183	230064W	1-29		2300995W	3-67	
225712W	3-13	47	226450W	3-29	203	230064W	1-37		2300995W	3-77	2
225712W	3-15	49	226458W	2-61	21	230064W	1-41		2300995W	3-79	20
225712W	3-17	47	226459W	2-61	21	230064W	1-43		2300995W	3-85	
225712W	3-19	47	227468W	3-63		230064W	1-44		2300995W	3-93	
225712W	3-21	47	227468W	3-67		230064W	1-45		2300995W	3-95	
225712W	3-25	181	227468W	3-85		230064W	1-47		2300995W	3-99	
225712W	3-25	201	227468W	3-95		230064W	1-49		2300995W	3-101	15
225718W	2-27	9	227468W	3-107		230064W	1-51		2300995W	3-109	19
226359W	3-3	25	2300006W	1-89	1	230064W	1-53		2300995W	3-113	15
226359W	3-5	26	2300012W	2-3	29	230064W	1-55		2300995W	3-115	17
226359W	3-7	27	2300015W	1-85	1.9	230064W	1-56		2300995W	3-119	
226359W	3-9	27	2300015W	2-61	34	230064W	1-58		2300995W	3-121	
226359W	3-25	114	2300016W	2-3	28	230064W	1-61		2300995W	3-123	
226359W	3-29	114	2300021W	2-3	27	230064W	1-63		2300995W	3-127	2
226359W	5-8	7	2300056W	2-68	2	230064W	1-65		2300995W	3-128	16
226360W	3-3	23	2300056W	2-69	2	230064W	1-67		2300995W	3-129	16
226360W	3-5	25	2300067W	3-39	5	230064W	1-69		2300995W	3-133	
226360W	3-7	26	2300183W	3-7	57	230064W	1-71		2300995W	3-135	
226360W	3-9	26	2300183W	3-9	57	230064W	1-73		2300995W	3-137	
226360W	3-25	115	2300183W	3-11	57	230064W	1-75		2300995W	3-139	
226360W	3-29	115	2300183W	3-13	57	230064W	1-77		2300995W	3-143	13
226374W	4-3	20	2300183W	3-19	57	230064W	1-79		2300995W	3-145	
226374W	4-4	12	2300183W	3-21	57	230064W	1-81		2300995W	3-147	
226374W	4-5	12	2300183W	3-25	15	230064W	1-83		2300995W	3-149	15
226374W	4-6	12	2300183W	3-29	15	230064W	1-85		2300995W	3-159	7
226414W	2-3	12	2300185W	3-39	5	230064W	1-87		2300995W	3-51	
226414W	2-29	12	2300195W	3-38	26	230064W	1-88		2301006W	1-85	1.9
226415W	2-3	12	2300196W	3-38	27	230064W	2-49		2301006W	2-61	34
226415W	2-29	12	2300202W	3-49	2	230064W	3-57		2301007W	1-85	1.9
226416W	2-51	18	2300301W	3-25	186	230064W	3-73		2301008W	1-85	1.9
226416W	2-53	18	2300301W	3-25	206	230064W	3-89		2301008W	2-61	34
226416W	2-55	16	2300301W	3-29	186	230064W	3-102		2301030W	3-102	1
226416W	2-55	51	2300301W	3-29	206	230064W	3-104		2301030W	3-104	7
226416W	2-57	16	2300301W	3-37		230064W	3-105		2301054W	3-104	3
226416W	2-57	51	2300304W	1-79	25	230064W	3-110		2301055W	3-80	29
226417W	2-51	31	2300308W	3-37	36	230064W	3-153		2301055W	3-81	70
226417W	2-53	31	2300326W	3-72	8	230064W	3-154		2301055W	3-104	11
226417W	2-55	54	2300326W	3-124	8	2300935W	3-7	53	2301055W	3-105	18
226417W	2-57	54	2300369W	3-86	9	2300935W	3-9	53	2301055W	3-111	25
226418W	2-51	12	2300369W	3-88	9	2300935W	3-11	53	2301055W	3-130	16
226418W	2-53	12	2300388W	3-43	1	2300935W	3-13	53	2301055W	3-131	55
226418W	2-55	50	2300388W	3-45	1	2300935W	3-19	53	2301055W	3-150	25
226418W	2-57	50	2300388W	3-47	1	2300935W	3-21	53	2301066W	1-79	25
226429W	1-11	5	2300422W	1-73	15	2300935W	3-25	3	2301270W	3-141	8
226429W	1-53	1	2300422W	1-79	15	2300935W	3-29	3	2301271W	3-140	
226429W	1-55	5	2300423W	1-73	16	2300935W	5-5	4	2301487W	3-55	13
226429W	1-83	5	2300423W	1-79	16	2300935W	5-6	3	2301487W	3-59	14
226430W	1-11	3	2300508W	1-7	11	2300935W	5-8	8	2301487W	3-65	6
226430W	1-49	2	2300511W	1-89	4	2300935W	6-2		2301487W	3-79	14
226430W	1-53	3	2300521W	4-7	14	2300935W	6-3		2301487W	3-101	6
226430W	1-55	3	2300544W	2-91		2300936W	3-7	53	2301487W	3-109	13
226430W	1-83	3	2300544W	2-92		2300936W	3-9	53	2301487W	3-113	13
226436W	2-51	25	2300544W	5-11	1	2300936W	3-11	53	2301487W	3-115	14
226436W	2-53	25	2300544W	6-3		2300936W	3-13	53	2301487W	3-121	6
226436W	2-55	18	2300554W	2-59	717	2300936W	3-19	53	2301487W	3-128	14
226436W	2-57	18	2300554W	2-65	717	2300936W	3-21	53	2301487W	3-129	14
226445W	3-36	32	2300554W	2-67	717	2300936W	3-25	2	2301487W	3-143	6
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2301529W	1-63	1	2301727W	4-5	1	2302310W	2-85	25	230311W	2-69	5
2301529W	1-65	1	2301727W	4-6	1	2302311W	2-85	23	230311W	2-70	1
2301529W	1-67	1	2301731W	4-4		2302311W	5-18	2	230311W	2-71	1
2301529W	1-69	1.5	2301731W	4-5		2302311W	6-5		230311W	5-14	7
2301530W	1-61	2	2301732W	4-4		2302315W	3-115		230311W	5-15	6
2301530W	1-63	2	2301732W	4-6		2302501W	3-128		230311W	6-4	
2301530W	1-65	2	2301748W	4-8		2302501W	3-129		2303221W	1-5	2
2301530W	1-67	2	2301749W	4-8	1	2302618W	2-75	18	2303221W	1-9	2
2301530W	1-69	1.6	2301782W	2-93	1	2302619W	2-71	6	2303221W	6-5	
2301531W	2-31	3	2301783W	2-77	20	2302624W	2-85	18	2303221W	6-5	
2301531W	2-33	3	2301783W	2-93	3	2302625W	1-9	24	2303221W	6-6	
2301540W	1-63	4	2301821W	3-11	81	2302625W	2-85	20	2303249W	2-31	23
2301540W	1-67	4	2301821W	3-13	81	2302626W	1-9	25	2303249W	2-36	71
2301540W	1-69	1.39	2301821W	3-21	81	2302626W	2-85	17	2303258W	2-31	1
2301540W	2-31	4	2301821W	3-25	157	2302641W	2-5	6	230336W	4-3	15
2301540W	2-33	4	2301821W	3-25	273	2302642W	2-5	8	2303405W	2-31	20
2301540W	2-35	4	2301821W	3-29	157	2302642W	2-15	8	2303405W	2-33	20
2301541W	2-31	5	2301821W	3-29	273	2302790W	1-69	2	2303405W	2-35	20
2301541W	2-33	5	2301822W	3-11	28	2302790W	2-31	1	2303405W	2-36	17
2301576W	2-33	1	2301822W	3-13	28	2302790W	2-33	1	2303406W	2-31	21
2301578W	3-11	36	2301822W	3-21	28	2302790W	2-35	1	2303406W	2-33	21
2301578W	3-13	36	2301822W	3-25	151	2302790W	6-6		2303406W	2-35	21
2301578W	3-21	36	2301822W	3-29	151	2302798W	2-31	1	2303406W	2-36	18
2301578W	3-25	210	2301834W	3-102	14	2302938W	2-74	19	230351W	2-72	1
2301582W	3-11	35	2301845W	3-102	7	2302938W	2-75	19	230351W	2-73	1
2301582W	3-13	35	2301845W	3-154		2302963W	3-25	9	230351W	2-74	12
2301582W	3-21	35	2301850W	1-61	14	2302963W	3-29	9	230351W	2-74	20
2301582W	3-25	209	2301850W	1-63	18	2302963W	3-32		230351W	2-75	12
2301582W	3-29	209	2301850W	1-65	14	2302963W	6-5		230351W	2-75	20
2301589W	2-33	23	2301850W	1-67	18	2302963W	6-5		230351W	5-14	3
2301589W	2-35	23	2301850W	1-69	1.36	2302963W	6-6		230351W	5-15	3
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2301634W	3-159	6	2301853W	1-29	4	2303105W	3-48	1	2303674W	1-73	4
2301641W	1-73	20	2301907W	4-8	2	2303105W	3-50	1	2303677W	3-7	18
2301641W	1-79	20	2301907W	4-9	2	2303105W	3-51	1	2303677W	3-9	18
2301642W	1-73	21	2301910W	4-8	7	2303105W	3-52	1	2303677W	3-11	18
2301642W	1-79	21	2301910W	4-9	6	2303105W	3-55	6	2303677W	3-13	18
2301643W	1-73	19	2301919W	4-8	14	2303105W	3-59	6	2303677W	3-19	18
2301643W	1-79	19	2301919W	4-9	12	2303105W	3-63	1	2303677W	3-21	18
2301666W	3-41	7	2301920W	4-8	13	2303105W	3-65	3	2303677W	3-25	35
2301666W	3-45	11	2301920W	4-9	11	2303105W	3-67	1	2303677W	3-29	35
2301666W	3-45	12	2301921W	2-86	1	2303105W	3-79	6	2303692W	1-73	9
2301697W	1-61	3	2301924W	4-8	20	2303105W	3-85	1	2303694W	1-73	8
2301697W	1-63	6	2301924W	4-9	21	2303105W	3-93	3	2303733W	1-63	3
2301697W	1-65	3	2301925W	4-8	15	2303105W	3-95	1	2303733W	1-67	3
2301697W	1-67	6	2301925W	4-9	13	2303105W	3-99	1	2303733W	1-69	1.1
2301697W	1-69	1.8	2302013W	3-43	13	2303105W	3-101	3	2303733W	2-31	3
2301699W	1-61	5	2302013W	3-45	13	2303105W	3-107	1	2303733W	2-35	3
2301699W	1-63	8	2302013W	3-47	13	2303105W	3-109	6	2303929W	1-63	34
2301699W	1-65	5	2302014W	3-43		2303105W	3-113	6	2303929W	1-67	34
2301699W	1-67	8	2302014W	3-45		2303105W	3-115	6	2303929W	2-31	1
2301699W	1-69	1.9	2302014W	3-47		2303105W	3-119	1	2303929W	2-35	1
2301706W	4-4	3	2302015W	3-43	7	2303105W	3-121	1	2303981W	1-63	29
2301706W	4-5	4	2302015W	3-45	7	2303105W	3-123	1	2303981W	1-67	29
2301706W	4-6	4	2302015W	3-47	7	2303105W	3-128	6	2303981W	1-69	1.17
2301706W	4-8	5	2302057W	3-43	31	2303105W	3-129	6	2303982W	3-61	2
2301706W	4-8	2.1	2302057W	3-45	31	2303105W	3-133	1	2303982W	3-71	2.1
2301706W	4-9	4	2302057W	3-47	31	2303105W	3-135	1	2303982W	3-73	61
2301706W	4-9	2.2	2302109W	3-21	37	2303105W	3-137	1	2303982W	3-75	1
2301718W	4-4	1	2302109W	3-25	21	2303105W	3-143	1	2303982W	3-87	2
2301718W	4-5	8	2302109W	3-29	21	2303105W	3-145	1	2303982W	3-89	2
2301718W	4-6	8	2302115W	3-77	4.2	2303105W	3-147	1	2303982W	3-97	2
2301721W	4-5	11	2302115W	3-127	4.2	2303105W	3-149	6	2303982W	3-105	31
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2301722W	4-4	10	2302120W	4-9	9	230310W	2-69	5	2303982W	3-125	2
2301722W	4-5	3	2302181W	2-44	14	230310W	2-70	2	2303982W	3-151	2.2
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230426W	2-59	730	2304759W	1-11	9	2307311W	1-69	1.3	240175W	2-67	700
230426W	2-61	15	2304759W	1-83	9	2307351W	3-60	1	241441W	2-59	721
230426W	2-63	403	2304803W	1-9	31	2307354W	3-60	2	241441W	2-61	4
230426W	2-65	730	2304806W	3-160	1	2307354W	3-116	2	241441W	2-63	424
230426W	2-67	730	2304807W	3-57	25	2307354W	3-155		241441W	2-65	721
230427W	2-59	733	2304807W	3-110	25	2307355W	3-60	3	241441W	2-67	721
230427W	2-61	14	2304807W	3-160		2307355W	3-71	2.2	241442W	2-59	749
230427W	2-63	404	2304820W	3-103	1.28	2307355W	3-155		241442W	2-61	25
230427W	2-65	733	2304820W	3-155		2307357W	3-60		241442W	2-63	413
230427W	2-67	733	2304820W	6-6		2307373W	3-116	1	241442W	2-65	749
2304304W	1-63	17	2304848W	3-57	31	2307374W	3-116		241442W	2-67	749
2304304W	1-67	17	2304848W	3-110	31	2307382W	3-61		241778W	3-3	28
2304304W	3-105	10	2304867W	3-130	17	2307383W	3-117		241778W	3-5	72
2304304W	3-162	1	2304868W	3-130	18	2307543W	3-61	1	241778W	3-15	28
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2304339W	3-159	10	2304879W	3-131	56	2307559W	1-15	1	242825W	2-67	703
2304340W	3-155	4	2304881W	3-80	26	2307559W	1-23	1	242826W	2-59	704
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243189W	3-59	18	253818W	1-57	7	258220W	3-35	13	265401W	2-88	21
243189W	3-63	4	253818W	1-58	3	258220W	3-36	27	265402W	2-88	14
243189W	3-65	2	254375W	2-61	36	258220W	3-37	22	265403W	2-88	13
243189W	3-67	4	254931W	1-10	5	258556W	3-7	61	265404W	2-91	15A
243189W	3-79	18	254931W	1-11	7	258556W	3-9	61	265405W	2-92	15
243189W	3-85	4	254931W	1-41	5	258556W	3-11	61	265407W	2-91	7
243189W	3-93	2	254931W	1-43	51	258556W	3-13	61	265407W	2-92	7
243189W	3-95	4	254931W	1-44	5	258556W	3-19	61	265407W	5-11	1.3
243189W	3-99	16	254931W	1-45	1	258556W	3-21	61	265407W	6-3	
243189W	3-101	2	254931W	1-47	1	261529W	2-51	18	265787W	3-37	38
243189W	3-107	4	254931W	1-53	5	261529W	2-53	18	267018W	3-3	29
243189W	3-109	17	254931W	1-55	7	261529W	2-55	40	267018W	3-5	31
245231	1-43		254931W	1-83	7	261529W	2-57	40	267018W	3-5	31
245231W	1-77		254931W	1-87	19	261542W	2-88	17	267018W	3-15	29
245231W	1-79		255094W	1-77	444	261542W	2-91	5	267018W	3-17	31
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246379W	1-17	7	255433W	3-5	65	261542W	5-11	1.2	267018W	3-36	36
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247093W	2-29	22	255433W	3-13	67	261567W	3-65	7	267487W	3-9	41
247093W	2-31	14	255433W	3-15	65	261567W	3-101	7	267487W	3-11	41
247093W	2-33	14	255433W	3-17	65	261567W	3-121	9	267487W	3-13	41
247093W	2-35	14	255433W	3-19	67	261567W	3-143	9	267487W	3-17	42
247093W	2-36	5	255433W	3-21	67	261676W	1-79	25	267487W	3-19	41
247093W	6-6		255433W	3-25	52	261676W	2-61	34	267487W	3-21	41
248320W	2-27	15	255433W	3-29	52	261677W	1-79	25	267488W	3-5	38
248321W	1-59	14	255434W	3-3	63	261677W	2-61	34	267488W	3-7	37
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250379W	2-63	419	255434W	3-9	63	262080W	3-37	6	267488W	3-13	37
250379W	2-65	715	255434W	3-11	63	262088W	3-36	19	267488W	3-17	38
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250388W	2-27	5	255434W	3-17	63	264051W	3-121		267489W	3-5	39
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250484W	2-51	37	255497W	2-53	26	264068W	3-3	57	267494W	5-9	
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250490W	2-61	34	255497W	2-57	26	264068W	5-4	3	267507W	1-7	8
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250999W	2-53	21	255498W	2-53	27	264068W	6-2		268488W	1-71	7
250999W	2-55	20	255498W	2-55	28	264134W	2-49	12	268489W	1-71	4
250999W	2-57	20	255498W	2-57	28	264134W	2-51	19	268492W	2-74	1
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251733W	2-73	15	255499W	2-53	28	264134W	2-55		271726W	1-18	3
251733W	2-74	3	255499W	2-55	27	264134W	2-57		271727W	1-18	6
251733W	2-75	3	255499W	2-57	27	264159W	2-35		271729W	3-5	15
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252114W	2-87	11	2570W	4-4	6	265325W	3-85	25	271729W	3-9	16
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253816W	1-57	5	257338W	3-30	15	265332W	3-5	53	271731W	3-60	7
253816W	1-58	2	257341W	3-30	17	265332W	3-7	53	271731W	3-61	6
253816W	1-87	17	257342W	2-27	19	265332W	3-11	53	271731W	3-63	22
253817W	1-27	3	257343W	2-27	19	265332W	3-17	53	271731W	3-65	16
253817W	1-56	1	257605W	2-81	20	265332W	3-19	53	271731W	3-67	22



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271731W	3-69	3.5	274453W	2-11	11	276043W	3-55	4	276091W	3-19	18
271731W	3-71	2.4	274453W	2-13	11	276043W	3-55	16	276097W	3-3	61
271731W	3-72	9	274455W	2-7	7	276043W	3-59	4	276097W	3-5	61
271731W	3-73	67	274456W	1-17	9	276043W	3-59	17	276097W	3-15	61
271731W	3-75	7	274904W	2-91		276043W	3-63	6	276097W	3-17	61
271731W	3-77	11	274905W	2-92		276043W	3-65	1B	276097W	3-25	161
271731W	3-79	19	274906W	2-91	15	276043W	3-65	5B	276097W	3-29	161
271731W	3-80	24	274907W	2-93	3	276043W	3-67	6	276098W	3-36	1
271731W	3-81	68	276029W	3-101	5A	276043W	3-79	4	277226W	3-5	4
271731W	3-83	2.6	276029W	3-143	3A	276043W	3-79	17	277226W	3-7	4
271731W	3-85	22	276030W	3-101	1A	276043W	3-85	6	277226W	3-9	4
271731W	3-86	10	276031W	3-48	3	276043W	3-93	1	277226W	3-11	4
271731W	3-87	10	276031W	3-50	3	276043W	3-93	5	277226W	3-13	4
271731W	3-88	10	276031W	3-51	3	276043W	3-95	6	277226W	3-17	4
271731W	3-89	10	276031W	3-52	3	276043W	3-99	3	277226W	3-19	4
271731W	3-93	24	276031W	3-63	3	276043W	3-99	17	277226W	3-21	4
271731W	3-95	22	276031W	3-65	5	276043W	3-101	1C	277226W	3-25	7
271731W	3-96	12	276031W	3-67	3	276043W	3-101	5C	277226W	3-29	7
271731W	3-97	9	276031W	3-85	3	276043W	3-107	6	277276W	3-69	2.4
271731W	3-99	32	276031W	3-93	5	276043W	3-109	4	277276W	3-71	3.4
271731W	3-102	11	276031W	3-95	3	276043W	3-109	16	277276W	3-73	41
271731W	3-103	1.32	276031W	3-101	5	276043W	3-113	4	277276W	3-83	3.4
271731W	3-104	6	276031W	3-107	3	276043W	3-115	4	277276W	3-113	14
271731W	3-105	37	276031W	3-119	3	276043W	3-119	3	277276W	3-115	16
271731W	3-107	22	276031W	3-121	3	276043W	3-121	3	277276W	3-116	5
271731W	3-109	18	276031W	3-123		276043W	3-123		277276W	3-117	5
271731W	3-110	23	276031W	3-133	3	276043W	3-128	4	277276W	3-119	29
271731W	3-111	6	276031W	3-135	3	276043W	3-129	4	277276W	3-121	21
271746W	3-63	8	276031W	3-137	3	276043W	3-133	3	277276W	3-123	29
271746W	3-67	8	276031W	3-139	3	276043W	3-135	3	277276W	3-124	9
271746W	3-85	8	276031W	3-143	3	276043W	3-137	3	277276W	3-125	5
271746W	3-95	8	276031W	3-147	3	276043W	3-139	3	277276W	3-126	4
271746W	3-107	8	276032W	3-63	6	276043W	3-143	3C	277276W	3-127	11
271747W	3-121	4	276032W	3-65	1	276043W	3-145	3	277276W	3-128	15
271747W	3-135	8	276032W	3-67	6	276043W	3-147	3	277276W	3-129	15
271747W	3-139	8	276032W	3-85	6	276043W	3-149	4	277276W	3-130	14
271747W	3-143	4	276032W	3-93	1	276081W	3-65	8	277276W	3-131	53
271748W	3-48	8	276032W	3-95	6	276081W	3-93	8	277276W	3-133	29
271748W	3-50	8	276032W	3-101	1	276081W	3-101	8	277276W	3-135	21
271748W	3-51	8	276032W	3-107	6	276081W	3-121	7	277276W	3-137	29
271748W	3-52	8	276036W	3-55	2	276081W	3-135	6	277276W	3-139	19
271748W	3-119	11	276036W	3-59	2	276081W	3-139	6	277276W	3-140	10
271748W	3-123	11	276036W	3-79	2	276081W	3-143	7	277276W	3-141	6
271748W	3-133	11	276036W	3-109	2	276087W	3-3	60	277276W	3-143	21
271748W	3-137	11	276036W	3-113	2	276087W	3-5	60	277276W	3-145	32
271748W	3-147	11	276036W	3-115	2	276087W	3-7	60	277276W	3-147	29
27259W	2-86	13	276036W	3-128	2	276087W	3-9	60	277276W	3-149	14
274038W	3-5	55	276036W	3-129	2	276087W	3-11	60	277276W	3-150	6
274038W	3-7	55	276036W	3-149	2	276087W	3-13	60	277276W	3-151	24
274038W	3-9	55	276037W	3-55	14	276087W	3-15	60	277489W	3-3	46
274038W	3-11	55	276037W	3-59	15	276087W	3-17	60	277489W	3-5	57
274038W	3-13	55	276037W	3-79	15	276087W	3-19	60	277489W	3-15	46
274038W	3-17	55	276037W	3-109	14	276087W	3-21	60	277489W	3-17	57
274038W	3-19	55	276041W	3-48	6	276087W	3-25	160	277490W	3-3	46
274038W	3-21	55	276041W	3-50	6	276087W	3-29	160	277490W	3-5	57
274044W	1-73	1	276041W	3-51	6	276090W	3-5	2	277490W	3-15	46
274044W	1-75	1	276041W	3-52	6	276090W	3-7	2	277490W	3-17	57
274044W	1-77	6	276041W	3-63	9	276090W	3-9	2	277490W	5-4	1
274044W	1-79	6	276041W	3-67	9	276090W	3-11	2	277490W	6-2	
274044W	1-81	1	276041W	3-85	9	276090W	3-13	2	277663W	3-3	19
274044W	1-85	1.24	276041W	3-95	9	276090W	3-17	2	277663W	3-3	26
274044W	1-87	15	276041W	3-107	9	276090W	3-19	2	277663W	3-5	27
274450W	1-17	3	276041W	3-119	8	276090W	3-21	2	277663W	3-7	29
274452W	1-17	38	276041W	3-123		276090W	3-25	6	277663W	3-9	29
274452W	2-7	12	276041W	3-133	8	276090W	3-29	6	277663W	3-11	29
274452W	2-9	13	276041W	3-137	8	276091W	3-3	17	277663W	3-13	29
274452W	2-11	13	276041W	3-147	8	276091W	3-5	17	277663W	3-15	19
274452W	2-13	13	276043W	3-48	3	276091W	3-7	18	277663W	3-15	26
274453W	1-17	37	276043W	3-50	4	276091W	3-11	18	277663W	3-17	27
274453W	2-7	18	276043W	3-51	3	276091W	3-15	17	277663W	3-19	29
274453W	2-9	11	276043W	3-52	3	276091W	3-17	17	277663W	3-21	29

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277663W	3-29	119	283433W	2-83	13	293645W	1-39	5	30055W	2-65	701
27936W	3-38	13	283433W	2-85	14	293708W	1-23	1.1	30055W	2-67	701
279388W	3-7	57	283434W	2-83	13	293710W	1-21	14	30058W	2-81	19
279388W	3-11	57	283434W	2-85	13	293797W	3-77	9.10	30058W	2-83	19
279388W	3-19	57	285277W	2-8	1	293797W	3-127	9.7	30058W	2-85	22
279392W	3-3	6	285277W	2-18	1	294069W	3-41	10	30058W	5-17	2
279392W	3-5	7	285277W	2-38	1	294072W	3-41	17	30058W	6-4	
279392W	3-7	8	285278W	2-8	1	294938W	2-59	712	30059W	2-79	1
279392W	3-9	8	285278W	2-18	1	294938W	2-65	712	30059W	2-81	17
279392W	3-11	8	285278W	2-38	1	294938W	2-67	712	30059W	2-83	17
279392W	3-13	8	285683W	2-8	14	295752W	2-51	22	30059W	2-85	21
279392W	3-15	6	285683W	2-10	14	295752W	2-53	22	30059W	5-16	1
279392W	3-17	7	285683W	2-12	14	295752W	2-55	22	30059W	5-17	1
279392W	3-19	8	285684W	1-25	8	295752W	2-57	22	30059W	5-18	1
279392W	3-21	8	285684W	1-29	8	295752W	2-59	750	30059W	6-4	
279392W	3-25	61	285684W	2-8	14	295752W	2-65	750	30059W	6-4	
279392W	3-29	61	285684W	2-10	14	295752W	2-67	750	30059W	6-5	
279394W	3-36		285684W	2-12	14	295754W	2-59	728	300634W	1-17	34
279397W	3-3	27	285685W	1-17	12	295754W	2-65	728	300638W	1-17	35
279397W	3-5	28	285685W	2-8	14	295754W	2-67	728	30068W	2-59	722
279397W	3-15	27	285685W	2-10	14	295766W	2-51	35	30068W	2-61	10
279397W	3-17	28	285685W	2-12	14	295766W	2-53	35	30068W	2-63	423
279397W	3-36	34	285686W	2-8	14	296160W	3-103	1.27	30068W	2-65	722
279397W	3-37	35	285686W	2-10	14	296162W	3-71	1.8	30068W	2-67	722
280256W	3-3	74	285686W	2-12	14	296162W	3-81	72	30080W	2-79	2
280256W	3-5	76	285687W	2-38	14	296162W	3-83	1.6	30080W	5-16	2
280256W	3-7	75	285687W	2-40	14	296162W	3-131	57	30080W	6-4	
280256W	3-9	75	285687W	2-42	14	296167W	3-151	27	301184W	2-27	19
280256W	3-11	75	285688W	1-43	56	296175W	3-71	1.6	30145W	2-59	719
280256W	3-13	75	285688W	2-18	14	296175W	3-83	1.5	30145W	2-61	5
280256W	3-15	74	285688W	2-20	14	296417W	3-71	1.9	30145W	2-63	422
280256W	3-17	76	285688W	2-22	14	296417W	3-103	1.26	30145W	2-65	719
280256W	3-19	75	286041W	1-7	7	296418W	3-151	26	30145W	2-67	719
280256W	3-21	75	286041W	1-9	7	296420W	3-71	1.7	30189W	2-3	21
280262W	1-5	38	286042W	1-7	7	296420W	3-77	5	30189W	2-29	21
280262W	1-9	24	286042W	1-9	8	296420W	3-127	5	30189W	2-31	13
280262W	2-79	7	286042W	5-9	13	296422W	1-21	17	30189W	2-33	13
280262W	2-81	18	287027W	3-93		296422W	1-39	4	30189W	2-35	13
280262W	2-83	18	287028W	3-93	23	296426W	1-87	8	30189W	2-36	4
280472W	1-5		287028W	3-135	20	296426W	4-9	20	30189W	6-6	
280472W	1-9		287028W	3-139	17	296430W	1-23	1.2	302399W	3-77	9.9
280472W	2-77		287032W	1-55	9	296434W	1-10	9	302399W	3-103	1.31
280472W	3-156	5	287032W	2-51	35	296434W	1-11	4	302399W	3-127	9.6
280472W	3-157	5	287032W	2-53	35	296434W	1-39	1.1	302400W	3-151	28
280472W	3-161	6	287926W	2-27	17	296434W	1-53	3	30279W	2-59	731
280591W	3-7	57	287927W	2-27	5	296434W	1-53	6	30279W	2-61	22
280591W	3-11	57	287928W	2-27	19	296434W	1-55	4	30279W	2-63	406
280591W	3-19	57	287942W	2-74	18	296434W	1-73	2	30279W	2-65	731
280985W	2-81	5	287942W	2-75	18	296434W	1-75	1	30279W	2-67	731
280985W	2-83	5	287947W	2-74	8	296434W	1-77	7	303938W	3-48	16
280985W	2-85	5	287947W	2-75	8	296434W	1-79	7	303938W	3-49	9
2816W	4-7	10	287949W	2-74	8	296434W	1-81	1	303938W	3-50	16
2817W	4-8	16	287949W	2-75	8	296434W	1-83	4	303938W	3-51	16
2817W	4-9	13	291578W	2-37	11	296434W	1-85	1.10	303938W	3-52	16
2817W	4-7	11	291578W	2-39	18	296434W	1-87	16	303938W	3-67	24
281881W	3-48	15	291578W	2-41	18	29758W	2-49	31	303938W	3-72	12
281881W	3-67	31	291578W	2-43	18	3001363W	3-7	57	303938W	3-85	24
281881W	3-123	31	292514W	3-77	7	3001363W	3-9	57	303938W	3-86	12
282148W	2-83	21	292514W	3-127	7	3001363W	3-11	57	303938W	3-87	12
282149W	2-85	16	292527W	1-63	32	3001363W	3-13	57	303938W	3-95	24
2821W	4-7	12	292527W	1-67	32	3001363W	3-19	57	303938W	3-101	23
2821W	4-8	10	292527W	1-69	1.4	3001363W	3-21	57	303938W	3-123	23
2821W	4-9	8	292660W	1-39	1.2	3001363W	3-25	15	303939W	3-95	23
282724W	2-85	15	292689W	1-49	2	3001363W	3-29	15	303939W	3-133	23
283427W	2-83	20	293154W	2-51	34	3001363W	5-5	1	303940W	3-28	130
283427W	2-85	24	293154W	2-53	34	3001363W	5-6	1	303940W	3-93	20
283430W	3-93	25	293154W	2-55	30	3001363W	6-2		303941W	3-24	130
283430W	3-139	18	293154W	2-57	30	3001363W	6-3		303941W	3-28	130
283431W	3-93	7	293632W	1-73	17	30055W	2-59	701	303941W	3-60	9
283431W	3-135	5	293632W	1-79	17	30055W	2-61	17	303941W	3-61	8

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303941W	3-67	23	303944W	3-128	17	31541W	4-7	5	327610W	3-17	43
303941W	3-72	10	303944W	3-129	17	316823W	3-31	1	327610W	3-19	42
303941W	3-75	8	303944W	3-130	20	316823W	3-32	5	327610W	3-21	42
303941W	3-85	23	303944W	3-131	60	318702W	1-21		327611W	3-3	68
303941W	3-86	11	303944W	3-151	33	318702W	1-23		327611W	3-5	68
303941W	3-87	11	303944W	6-5		318702W	1-33		327611W	3-7	68
303941W	3-93	19	303945W	3-24	130	318702W	1-37		327611W	3-9	68
303941W	3-93	20	303945W	3-28	130	318702W	1-39		327611W	3-11	68
303941W	3-101	21	303945W	3-57	32	318702W	1-63		327611W	3-13	68
303941W	3-107	24	303945W	3-57	33	318702W	1-67		327611W	3-15	68
303941W	3-123	23	303945W	3-77	12	318702W	1-69		327611W	3-17	68
303941W	3-124	10	303945W	3-93	19	318702W	1-85		327611W	3-19	68
303941W	3-135	17	303945W	3-93	20	318702W	1-87		327611W	3-21	68
303941W	3-139	14	303945W	3-96	10	318702W	2-31		328715W	2-88	16
303941W	3-143	17	303945W	3-97	8	318702W	2-33		328715W	2-91	6
303941W	6-5		303945W	3-102	12	318702W	3-111		328715W	2-92	6
303942W	3-24	130	303945W	3-103	2	318702W	3-150		328715W	5-11	1.1
303942W	3-28	130	303945W	3-103	3	318702W	3-155		328715W	5-13	1
303942W	3-55	20	303945W	3-110	32	318935W	1-41	9	328715W	6-3	
303942W	3-59	22	303945W	3-110	33	318935W	1-43	103	328715W	6-3	
303942W	3-61	7	303945W	3-127	12	318935W	1-45	10	328718W	4-7	6
303942W	3-79	21	303945W	3-140	8	318935W	1-47	13	328740W	4-7	22
303942W	3-80	32	303945W	3-141	4	321401W	2-9	9	328740W	4-8	17
303942W	3-81	76	303945W	6-6		321401W	2-11	9	328744W	4-7	20
303942W	3-83	3.8	303945W	6-6		321401W	2-13	9	328744W	4-8	23
303942W	3-85	24	303946W	2-81	15	321401W	2-19	9	328746W	4-7	20
303942W	3-88	12	303946W	2-83	15	321401W	2-21	9	328746W	4-8	23
303942W	3-89	12	303946W	2-85	37	321401W	2-23	9	328747W	4-8	18
303942W	3-90	66	303946W	3-3	76	321401W	2-27	9	328748W	4-7	21
303942W	3-99	21	303946W	3-5	78	321401W	2-39	9	328749W	4-8	24
303942W	3-109	20	303946W	3-7	77	321401W	2-41	9	331750W	4-7	17
303942W	3-117	6	303946W	3-9	77	321401W	2-43	9	331751W	4-7	2
303942W	6-5		303946W	3-25	95	321401W	2-45	9	331752W	4-7	7
303942W	6-5		303946W	3-29	95	321401W	2-47	1	331756W	4-7	13
303943W	3-24	130	303946W	5-9	14	321406W	1-10	4	331767W	4-7	9
303943W	3-28	130	304381W	1-45	7	321406W	1-59	12	331767W	4-8	4
303943W	3-60	8	304381W	1-47	8	321407W	1-10	3	331767W	4-9	3
303943W	3-63	24	305219W	1-17	8	321407W	1-59	11	331774W	2-59	708
303943W	3-65	23	308404W	2-59	729	321408W	1-59	13	331774W	2-61	29
303943W	3-75	9	308404W	2-65	729	321408W	2-49	4	331774W	2-63	412
303943W	3-93	19	308404W	2-67	729	321415W	1-59	8	331774W	2-65	708
303943W	3-99	23	308414W	2-27	14	321899W	2-3	4	331774W	2-67	708
303943W	3-104	14	313022W	2-3	5	321899W	2-29	4	332225W	2-59	707
303943W	3-105	39	313022W	2-29	5	321899W	2-31	11	332225W	2-61	28
303943W	3-111	26	313022W	2-49	11	321899W	2-33	11	332225W	2-63	410
303943W	3-116	6	313022W	2-49		321899W	2-35	11	332225W	2-65	707
303943W	3-125	6	313883W	2-73	8	321899W	2-36	2	332225W	2-67	707
303943W	3-126	5	313883W	2-74	2	321899W	6-6		332231W	2-59	732
303943W	3-135	17	313883W	2-75	2	322679W	3-7	36	332231W	2-61	13
303943W	3-145	23	313884W	2-8	1	322679W	3-9	36	332231W	2-63	402
303943W	3-150	26	313884W	2-10	1	322679W	3-11	35	332231W	2-65	732
303944W	3-24	130	313884W	2-12	1	322679W	3-11	36	332231W	2-67	732
303944W	3-28	130	313884W	2-18	1	322679W	3-13	36	332820W	3-113	
303944W	3-55	21	313884W	2-20	1	322679W	3-19	36	332820W	3-149	
303944W	3-59	23	313884W	2-22	1	322679W	3-21	36	332821W	3-55	
303944W	3-65	21	313884W	2-38	1	322679W	3-25	190	332821W	3-109	
303944W	3-79	22	313884W	2-40	1	322679W	3-25	208	332822W	3-55	11
303944W	3-80	31	313884W	2-42	1	323350W	2-3	3	332822W	3-59	12
303944W	3-81	75	313884W	2-44	1	323350W	2-29	3	332822W	3-79	12
303944W	3-83	3.7	313884W	2-47	5	323350W	2-31	12	332822W	3-109	11
303944W	3-85	23	313885W	2-27	5	323350W	2-33	12	332822W	3-113	11
303944W	3-88	11	313898W	1-18	4	323350W	2-35	12	332822W	3-115	12
303944W	3-89	11	313898W	1-25	3	323350W	2-36	3	332822W	3-128	12
303944W	3-90	65	313898W	1-29	3	323350W	6-6		332822W	3-129	12
303944W	3-99	23	314829W	1-17	2	327610W	3-3	43	332822W	3-149	11
303944W	3-104	13	314833W	3-31		327610W	3-5	43	332823W	3-55	1
303944W	3-105	38	314834W	3-7	18	327610W	3-7	42	332823W	3-109	1
303944W	3-111	27	314834W	3-11	18	327610W	3-9	42	332823W	3-113	1
303944W	3-113	16	314834W	3-19	18	327610W	3-11	42	332823W	3-149	1
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333441W	2-57	42	35573W	2-9	2	361774W	2-3	1	383881W	3-154	24
333442W	2-51	31	35573W	2-11	2	361774W	2-29	1	383881W	3-155	19
333442W	2-53	31	35573W	2-13	2	361774W	2-33	29	383892W	3-3	70
333442W	2-55	43	35573W	2-15	2	361774W	2-35	29	383892W	3-5	70
333442W	2-57	43	35573W	2-17	4	36206W	4-3	10	383892W	3-15	70
333443W	2-51	12	35573W	2-19	2	369519W	1-41		383892W	3-17	70
33394W	4-3	12	35573W	2-21	2	373640W	1-45	11	383892W	3-25	28
33394W	4-4	7	35573W	2-23	2	373641W	1-45	12	383892W	3-29	28
33394W	4-5	5	35573W	2-25	6	373643W	1-45	14	383917W	1-11	8
33394W	4-6	5	35573W	2-27	3	373645W	1-47	17	383917W	1-53	2
335456W	1-49	3	35573W	2-37	5	373645W	2-22	14	383917W	1-55	8
335457W	1-49	5	35573W	2-39	2	374794W	2-49	16	383917W	1-83	8
335468W	3-99	3	35573W	2-41	2	374795W	2-49	17	387316W	3-33	35
335468W	3-145	3	35573W	2-43	2	374796W	2-49	20	388589W	2-49	38
335470W	3-99	14	35573W	2-45	2	374797W	2-49	21	388601W	2-3	23
335470W	3-145	14	35573W	2-47	3	374798W	2-49	22	388601W	2-29	23
33681W	3-38	20	35573W	2-51	10	374799W	2-49	24	388601W	2-31	10
33682W	3-38	23	35573W	2-53	10	374803W	2-49	27	388601W	2-33	10
336854W	3-99	13	35573W	2-55	10	374804W	2-49	28	388601W	2-35	10
336854W	3-145	13	35573W	2-57	10	374805W	2-49	29	388601W	2-36	1
336856W	3-99	31	35575W	2-74	21	374807W	2-49	33	388605W	2-3	14
336856W	3-145	31	35575W	2-75	21	381190W	2-10	1	388605W	2-29	14
336858W	3-99	17	35575W	5-11	6	381190W	2-12	1	388606W	2-29	25
33717W	3-38	21	35575W	6-3		381190W	2-20	1	388606W	2-31	7
338652W	1-11	1	35800W	1-71	3	381190W	2-22	1	388606W	2-33	7
338652W	1-55	1	358043W	2-3	5	381190W	2-40	1	388606W	2-35	7
338652W	1-83	1	358043W	2-29	5	381190W	2-42	1	388610W	2-29	17
338653W	1-11	2	358043W	2-33	27	381190W	2-44	1	388611W	2-3	10
338653W	1-55	2	358043W	2-35	27	381193W	3-59	19	388611W	2-29	10
338653W	1-83	2	358045W	2-3	7	381193W	3-115	15	388612W	2-3	11
338845W	3-85	29	358045W	2-29	7	381194W	3-59		388612W	2-29	11
339489W	1-27	17	358046W	2-3	8	381199W	3-79	1	388640W	2-49	16
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339489W	3-43	20	358047W	2-3	9	381199W	3-129	1	388645W	2-49	
339489W	3-47	20	358047W	2-29	9	383150W	3-79		388646W	2-49	21
339496W	4-8	19	358674W	1-13		383156W	2-49	15	388652W	1-53	8
342436W	2-51	1	358674W	2-5		383166W	2-49	33	388653W	1-53	4
342436W	2-53	1	358674W	5-16	6	383167W	2-49	34	388655W	2-11	13
342436W	2-55	15	358674W	5-17	8	383178W	2-49	14	388655W	2-13	13
342436W	2-57	15	358674W	5-18	8	383789W	2-35		388655W	2-41	13
344839W	3-7	38	358674W	6-4		383789W	2-36		388655W	2-53	16
344839W	3-9	38	358674W	6-4		383880W	3-49	1	388655W	2-53	42
344839W	3-11	38	358674W	6-5		383880W	3-72	11	388655W	2-55	17
344839W	3-13	38	358976W	2-3	20	383880W	3-86	2	388655W	2-57	17
344839W	3-19	38	358976W	2-29	20	383880W	3-88	2	388656W	2-51	
344839W	3-21	38	358976W	2-31	18	383880W	3-96	2	388656W	2-53	
346523W	3-109	22	358976W	2-33	18	383880W	3-104	2	391016W	3-48	7
346523W	3-147	33	358976W	2-35	18	383880W	3-153		391016W	3-50	7
346523W	3-149	17	358976W	2-36	13	383881W	3-57	22	391016W	3-51	7
347019W	1-77	401	358978W	2-3	5	383881W	3-69	2.5	391016W	3-52	7
347019W	2-61	1	358978W	2-29	5	383881W	3-69	3.6	391016W	3-63	20
347019W	2-63	401	358978W	2-31	22	383881W	3-71	2.7	391016W	3-67	20
347020W	3-24	130	358978W	2-33	22	383881W	3-71	3.5	391016W	3-85	20
347020W	3-28	130	358978W	2-35	22	383881W	3-73	40	391016W	3-95	20
347020W	3-107	23	358978W	2-36	50	383881W	3-73	66	391016W	3-99	11
347020W	3-109	21	358995W	2-47		383881W	3-80	23	391016W	3-107	20
347020W	3-147	23	358999W	2-53	12	383881W	3-81	67	391016W	3-119	12
347020W	3-149	16	358999W	2-55	44	383881W	3-83	2.7	391016W	3-123	12
350830W	2-31		358999W	2-57	44	383881W	3-83	3.5	391016W	3-133	12
350830W	2-33		360378W	1-59	9	383881W	3-87	9	391016W	3-137	12
35135W	4-2	7	36150W	2-59	710	383881W	3-89	9	391016W	3-145	11
35135W	4-7	8	36150W	2-61	23	383881W	3-103	1.41	391016W	3-147	12
35135W	4-7	18	36150W	2-63	408	383881W	3-105	36	391484W	1-41	10
35135W	4-8	3	36150W	2-65	710	383881W	3-110	22	391484W	1-43	104
35135W	4-8	8	36150W	2-67	710	383881W	3-111	22	39370W	2-89	6
35135W	4-9	2	361773W	2-3	13	383881W	3-130	13	39370W	2-91	14
35135W	4-9	6	361773W	2-29	13	383881W	3-131	52	39370W	2-92	14
35444W	1-51	5	361773W	2-31	19	383881W	3-150	22	39370W	5-11	1.7
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39376W	3-37	32	45310W	2-41	3	55468W	3-19	57	67355W	2-17	1
39380W	2-51	30	45310W	2-43	3	55468W	3-21	57	67355W	2-19	12
39380W	2-53	30	45310W	2-45	3	55468W	3-25	15	67355W	2-21	12
39380W	2-55	41	45310W	2-47	2	55468W	3-29	15	67355W	2-23	12
39380W	2-57	41	45310W	6-5		56995W	1-21	5	67355W	2-25	9
39387W	2-59	713	45310W	6-5		57542W	2-59	714	67355W	2-37	1
39387W	2-65	713	45733W	2-49	32	57542W	2-65	714	67355W	2-39	12
39387W	2-67	713	46187W	2-86	1	57542W	2-67	714	67355W	2-41	12
39674W	2-74	7	46578W	2-81	6	588466	6-6		67355W	2-43	12
39674W	2-75	7	46578W	2-83	6	588467	6-6		67355W	2-45	12
39674W	5-11	2	46578W	2-85	6	588468	6-6		67355W	2-51	32
39674W	6-3		53038W	1-79	25	588469	6-6		67355W	2-53	32
39713W	2-37	10	53038W	2-61	34	588526	6-6		67355W	2-55	9
39713W	2-39	19	53157W	1-41	5	588527	6-6		67355W	2-57	9
39713W	2-41	19	53157W	1-56	3	588528	6-6		67355W	2-59	739
39713W	2-43	19	53157W	1-57	4	588529	6-6		67355W	2-61	3
397161W	3-96	9	53559W	2-77	23	588530	6-6		67355W	2-65	739
397161W	3-97	6	54112W	2-37	13	58903W	3-159	5	67355W	2-67	739
397161W	3-140	7	55287W	1-85	1.15	58907W	3-41	2	67355W	2-81	7
397161W	3-141	7	55289W	1-3	24	58907W	3-43	6	67355W	2-83	7
398817W	1-27	21	55289W	1-5	25	58907W	3-45	6	67355W	2-85	7
398817W	3-43	16	55289W	1-7	24	58907W	3-47	6	67355W	2-86	13
398817W	3-45	16	55289W	1-9	20	58916W	1-63	26	67355W	3-38	18
398817W	3-47	16	55289W	5-9	15	58916W	1-67	26	67355W	3-99	6
398817W	4-3	5	55434W	1-10	17	58916W	1-69	1.2	67355W	3-145	6
398817W	4-4	2	55434W	1-13	9	58916W	2-31	9	68370W	3-3	32
398817W	4-5	7	55434W	1-15	9	58916W	2-35	9	68370W	3-5	28
398817W	4-6	7	55434W	1-17	5	58938W	2-72	3	68370W	3-15	32
398817W	4-8	6	55434W	1-18	2	58938W	2-73	3	68370W	3-17	28
398817W	4-8	22	55434W	1-21	9	58938W	2-74	11	68370W	3-36	34
398817W	4-9	5	55434W	1-23	9	58938W	2-75	11	68370W	3-37	35
398817W	4-9	23	55434W	1-25	6	58938W	5-11	3	69727W	3-99	22
398890W	3-99	25	55434W	1-27	5	58938W	5-12	1	69727W	3-145	22
398890W	3-145	25	55434W	1-29	6	58938W	6-3		69778	6-7	
41212W	2-49	19	55434W	1-33	18	58939W	2-59	727	69782	6-7	
43209W	2-51	17	55434W	1-37	26	58939W	2-65	727	70381	6-7	
43209W	2-53	17	55434W	1-41	2	58939W	2-67	727	76227W	3-3	47
43209W	2-55	3	55434W	1-43	55	58947W	2-49	42	76227W	3-15	47
43209W	2-57	3	55434W	1-44	2	58954W	2-68	1	76695W	3-39	4
43307W	2-49	20	55434W	1-47	6	58954W	2-69	1	76696W	3-39	9
44313W	2-86	12	55434W	1-51	3	58954W	5-12	5	76697W	3-39	3
44313W	5-12	4	55434W	1-56	1	59387W	2-86	2	76787W	3-5	56
44316W	2-72	9	55434W	1-57	1	59389W	2-86	9	76787W	3-17	56
44316W	2-73	9	55434W	1-58	1	59393W	2-86	8	77114W	3-39	1
44316W	2-74	4	55434W	1-59	1	59395W	2-86	4	77187W	3-41	3
44316W	2-75	4	55434W	1-61	7	59395W	5-12	3	77187W	3-43	9
44316W	5-14	1	55434W	1-63	10	59396W	2-86	3	77187W	3-45	9
44316W	5-15	1	55434W	1-65	7	59396W	5-12	2	77187W	3-47	9
44316W	6-4		55434W	1-67	10	59419W	4-3	14	77188W	3-41	4
44482W	2-51	23	55434W	1-69	1.10	60137W	3-38	24	77188W	3-43	10
44482W	2-53	23	55434W	1-73	742	6036W	2-7	13	77188W	3-45	10
44482W	2-55	19	55434W	1-75	7	6036W	2-17	9	77188W	3-47	10
44482W	2-57	19	55434W	1-77	450	6037W	2-7	14	77418W	3-65	10
44547W	2-77	16	55434W	1-79	742	6037W	2-17	10	77418W	3-93	10
44547W	5-16	4	55434W	1-81	7	6348W	2-81	4	77418W	3-101	10
44547W	5-17	6	55434W	1-87	18	6348W	2-83	4	79389W	2-3	6
44547W	5-18	6	55434W	1-88	5	6348W	2-85	4	79389W	2-5	4
44547W	6-4		55434W	2-51	5	6348W	3-38	16	79389W	2-7	4
44547W	6-4		55434W	2-53	5	6348W	5-17	4	79389W	2-9	10
44547W	6-5		55434W	2-59	742	6348W	5-18	4	79389W	2-11	10
44551W	3-38	19	55434W	2-65	742	6348W	6-4		79389W	2-13	10
45310W	2-5	1	55434W	2-67	742	6348W	6-5		79389W	2-15	4
45310W	2-9	3	55435W	2-55	14	67355W	1-17	36	79389W	2-17	7
45310W	2-11	3	55435W	2-57	14	67355W	1-21	30	79389W	2-19	10
45310W	2-13	3	55468W	3-7	57	67355W	1-73	739	79389W	2-21	10
45310W	2-15	1	55468W	3-7	57	67355W	1-79	739	79389W	2-23	10
45310W	2-19	3	55468W	3-9	57	67355W	2-5	12	79389W	2-25	2
45310W	2-21	3	55468W	3-11	57	67355W	2-7	12	79389W	2-27	6
45310W	2-23	3	55468W	3-11	57	67355W	2-9	12	79389W	2-29	6

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79389W	2-35	15	89669W	3-5	16	92683W	3-41	12	95945W	2-72	14
79389W	2-36	6	89669W	3-7	17	92683W	3-43	25	95945W	2-73	14
79389W	2-37	9	89669W	3-9	17	92683W	3-45	25	95946W	2-72	13
79389W	2-39	10	89669W	3-11	17	92683W	3-47	25	95946W	2-73	13
79389W	2-41	10	89669W	3-13	17	92705W	3-39	1	95947W	2-72	11
79389W	2-43	10	89669W	3-17	16	92720W	4-3	18	95947W	2-73	11
79389W	2-45	10	89669W	3-19	17	92867W	2-87	14	95948W	1-3	24
79389W	2-47	4	89669W	3-21	17	92867W	2-88	10	95948W	1-5	21
79389W	2-51	33	89727W	2-68	10	92945W	2-86	7	95949W	3-38	17
79389W	2-53	33	89727W	2-69	10	93166W	4-3	6	95950W	3-38	22
79389W	2-55	4	89777W	2-89	11	93878W	4-3	21	95951W	3-38	14
79389W	2-57	4	89777W	2-90	11	93878W	4-4	13	95953W	1-3	7
79389W	6-5		89777W	2-91	2	93878W	4-5	13	95953W	1-5	9
79389W	6-5		89777W	2-92	2	93878W	4-6	13	95954W	1-3	7
79389W	6-6		89777W	5-11	1.5	94599W	2-86	10	95954W	1-5	10
79416W	3-41	3	89777W	6-3		94891W	3-41	5	95954W	5-10	2
79416W	3-43	9	90263W	2-77	3	95033W	1-3	26	95958W	1-3	20
79416W	3-45	9	90263W	5-16	9	95033W	1-5	14	95958W	1-5	40
79416W	3-47	9	90263W	5-17	11	95033W	1-7	26	95958W	1-7	20
79417W	3-41	3	90263W	5-18	11	95033W	1-9	12	95958W	1-9	46
79417W	3-43	9	90263W	6-4		95034W	1-3	26	95958W	5-9	16
79417W	3-45	9	90263W	6-4		95034W	1-5	16	95958W	5-10	6
79417W	3-47	9	90263W	6-5		95034W	1-7	26	95959W	1-3	13
79418W	3-41	3	90267W	3-41	2	95034W	1-9	14	95959W	1-7	13
79418W	3-43	9	90267W	3-43	5	95166W	1-3	26	95959W	6-5	
79418W	3-45	9	90267W	3-45	5	95166W	1-5	15	95959W	6-5	
79418W	3-47	9	90267W	3-47	5	95166W	1-7	26	95959W	6-6	
79972W	2-89	13	906601	6-7		95166W	1-9	13	95959W	1-5	1
79972W	2-90	13	90937W	1-17	11	9528W	1-17	14	95959W	1-9	1
79972W	2-91	3	90937W	1-25	7	9528W	1-25	10	95961W	2-72	5
79972W	2-92	3	90937W	1-27	6	9528W	1-27	9	95961W	2-73	5
79972W	5-11	1.6	90937W	1-29	7	9528W	1-29	10	95968W	2-68	7
79972W	6-3		90937W	1-33	8	9528W	1-33	43	95968W	2-69	7
79979W	2-87	12	90937W	1-37	28	9528W	1-37	12	95969W	2-68	9
79979W	2-88	9	90937W	1-43	64	9528W	1-43	58	95969W	2-69	9
79979W	5-13	5	90937W	1-47	20	9528W	1-47	12	95969W	2-70	6
79979W	6-3		90937W	1-87	10	9528W	1-87	5	95969W	2-71	6
83857W	3-5	32	90937W	2-7	10	9528W	2-9	20	95970W	1-3	26
83857W	3-7	30	90937W	2-7	19	9528W	2-11	20	95970W	1-5	13
83857W	3-7	32	90937W	2-9	7	9528W	2-13	20	95970W	1-7	26
83857W	3-7	45	90937W	2-11	7	9528W	2-19	20	95970W	1-9	11
83857W	3-9	30	90937W	2-11	7	9528W	2-21	20	95972W	2-79	4
83857W	3-9	32	90937W	2-13	7	9528W	2-23	20	95973W	2-79	3
83857W	3-9	46	90937W	2-13	7	9528W	2-25	4	95977W	2-77	13
83857W	3-11	30	90937W	2-17	2	9528W	2-39	20	95978W	2-77	14
83857W	3-11	32	90937W	2-19	7	9528W	2-41	20	95987W	3-38	
83857W	3-11	45	90937W	2-21	7	9528W	2-43	20	95988W	3-38	3
83857W	3-13	30	90937W	2-23	7	9528W	2-45	20	96020W	2-3	2
83857W	3-13	32	90937W	2-25	10	9554W	2-7	6	96020W	2-5	9
83857W	3-13	45	90937W	2-37	2	95581W	2-74	14	96020W	2-7	2
83857W	3-17	32	90937W	2-39	7	95581W	2-75	14	96020W	2-9	16
83857W	3-19	30	90937W	2-41	7	95581W	5-11	4	96020W	2-11	16
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83857W	3-19	45	90937W	2-45	7	95615W	3-38	5	96020W	2-19	16
83857W	3-21	30	90937W	2-49	10	95636W	3-38	25	96020W	2-21	16
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83857W	3-25	13	90937W	2-55	21	95668W	4-2	6	96020W	2-27	2
83857W	3-25	175	90937W	2-57	21	95669W	4-2	5	96020W	2-29	2
83857W	3-25	195	90937W	2-59	720	95750W	3-41	2	96020W	2-33	28
83857W	3-29	13	90937W	2-61	12	95750W	3-43	8	96020W	2-35	28
83857W	3-29	175	90937W	2-63	425	95750W	3-45	8	96020W	2-37	7
83857W	3-29	195	90937W	2-65	720	95750W	3-47	8	96020W	2-39	16
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