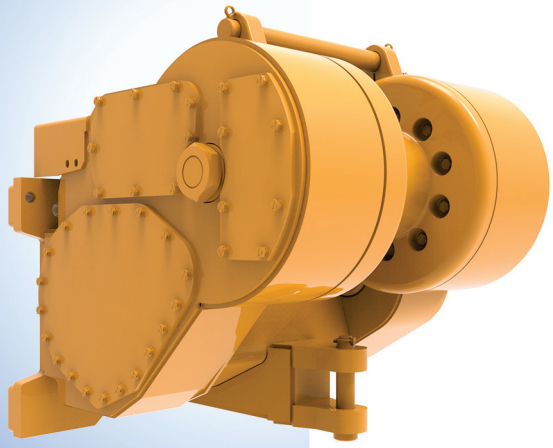
Allied® WINCH

Parts Manual



Allied W6G

Power Controlled & Electronic Controlled Towing Winch

Please check the Allied Systems website regularly for updates to this manual.
www.alliedsystems.com

CUSTOMER EDITION

A PRODUCT OF
Allied Systems COMPANY
SHERWOOD, OREGON USA

P/N 599003W Printed in U.S.A. 11/23/2016

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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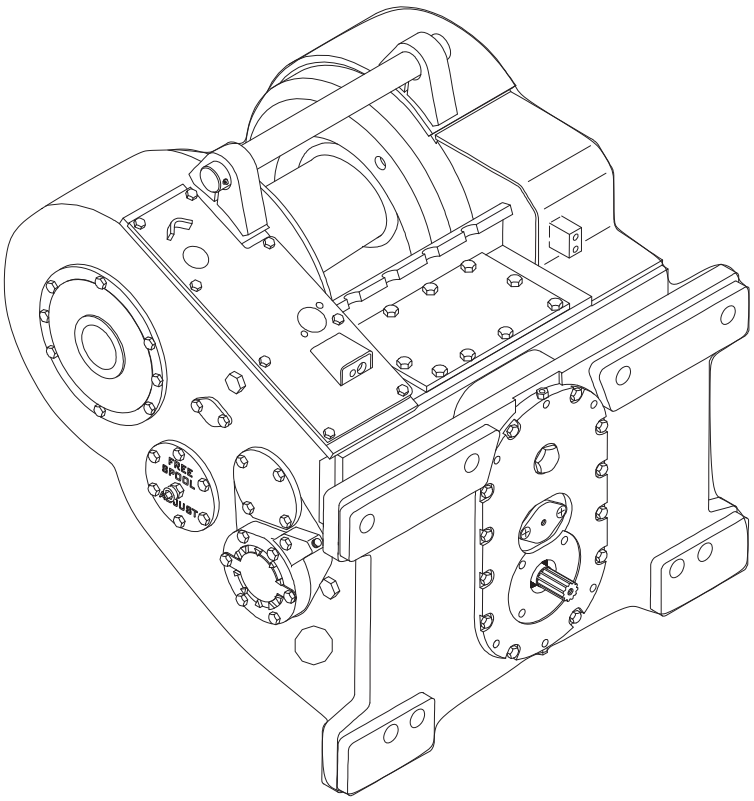

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Safety Summary

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

The "NOTICE" symbol 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.

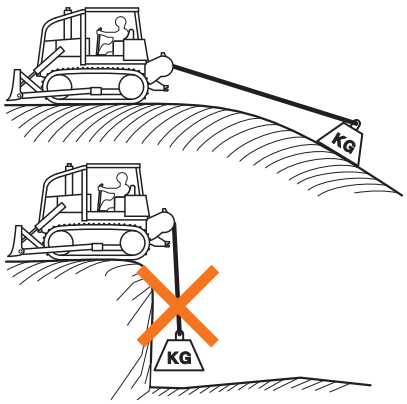
Operation, Inspection, and Maintenance Warnings

⚠ WARNING

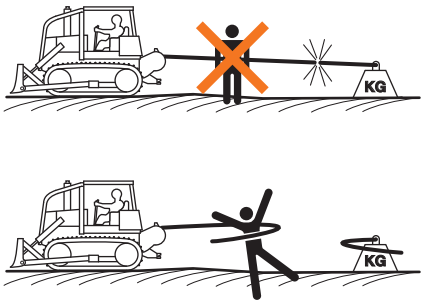
Obey the following cautions and warnings before using your winch to avoid equipment damage, personal injury or death.

- 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 not 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

A W6G P 1 F 1555 H44

Manufactured By
A = Made by Allied Systems Company

Winch Model
W6G = Standard
K6G = Special Applications

Type Drive
P = Power Controls
E = Electronic Controls

Gear Ratio
1 = 45.0:1
2 = 56.0:1
6 = 103.0:1
8 = 83.0:1
15 = 153.0:1

Internal Option
F = Freespool
N = Non-Freespool
U = Under Wind with Freespool

Sequence Number

Vehicle Code
See Figure 1

Notes: 1. In addition to the serial number plate, the serial number is stamped on the top left-hand side of the frame.

2. Circled numbers in Figure 1 indicate possible gear ratios.

Figure 1 - Tractor Identification and Gear Ratio

Tractor Make Model and Starting Tractor Serial Number Where Applicable						
CODE	A Fiat-Hitachi/ New Holland	C Caterpillar	E John Deere	H Dresser/ Dressta	K Komatsu	R Case
39						Quadtrac ⑥⑧
40						1650L ⑥⑧⑮
41			750B W/O CAB ⑥⑧⑮			
42			850B W/ CAB ⑥⑧⑮			
43		D6D/E/F PS ①② ⑥⑧⑮	850B W/O CAB ⑥⑧⑮			
44			750B W/ CAB ⑥⑧⑮	TD15E PS ①② ⑥⑧⑮		
45			750C I & II ⑥⑧⑮	TD15E DD ⑥⑧⑮		
46			850C I & II ①② ⑥⑧⑮	TD15H TIER I PS ①② ⑥⑧⑮	D65E-12,D65EX-12/15, D65EX-15E0, D65WX-15E0 ⑥⑧	
460			850K ①② ⑥⑧⑮			

(Continued on next page)

Figure 1 - Tractor Identification and Gear Ratio

Tractor Make Model and Starting Tractor Serial Number Where Applicable						
CODE	A Fiat-Hitachi/ New Holland	C Caterpillar	E John Deere	H Dresser/ Dressta	K Komatsu	R Case
47		D6N* ①② ⑥⑧⑮		TD15H TIER II, TD15M ①②⑥⑧⑮	D61EX-12, D61EX-15 ⑥⑧	
48	FD14E, DX/FD175/195 ①②⑥⑧⑮					
480		D6H PS ①② ⑥⑧⑮				
481		D6H DD ①⑥⑧⑮				
49	DC180 ①② ⑥⑧⑮					1850K ①② ⑥⑧⑮
50		D6R PS ①② ⑥⑧⑮				
71		D6R II & III PS; D6T ①② ⑥⑧⑮				
73		D6G PS ①② ⑥⑧⑮				
78		D6N** ①② ⑥⑧⑮				
81		D6N*** ①② ⑥⑧⑮				
810		D6N**** ①② ⑥⑧⑮				

* **Tractors (C47) with linkage hydraulic valve controls**
Prior to the following serial numbers, tractor code C47 was used for D6N:

D6N--CBJ00400
ALH00735
CCK00500
ALR00635
AKM01235
ALY01335

** **Tractors (C78) with pilot operated hydraulics**
After the above serial numbers, tractor codes C78 are used for D6N.

*** **Tractors (C81) with pilot operated hydraulics**
After the above serial numbers, tractor codes C81 (with Diff-Steer) are used for D6N.

**** **Tractors (C810) with pilot operated hydraulics**
With serial number prefixes: PBA & PER, tractor codes C810 are used for D6N.

Figure 2 - List of Installation Drawings

W6G INSTALLATION DRAWINGS BY TRACTOR

Winch Serial Number	Description	Installation Drawing Part Number
Electronic Control		
W6GE**----C43	W6G CAT D6E, E-CONTROLS 85:1	
W6GE**----C47	W6G CAT D6N W/MECHANICAL VALVE CONTROLS	2311715
W6GE**----C48	W6G CAT D6H PS	2310604
W6GE**----C480	W6G CAT D6H PS	2310604
W6GE**----C481	W6G CAT D6H DD	2310604
W6GE**----C49	W6G CAT D6H DD	2310604
W6GE**----C50	W6G CAT D6R PS	2310604
W6GE**----C71	W6G CAT D6R II & III, D6T	2310604
W6GE**----C78	W6G CAT D6N W/ PILOT CONTROLS	2311715
W6GE**----C81	W6G CAT D6N W/ PILOT CONTROLS	2311711
W6GE**----C810	W6G CAT D6N TIER 4i	2314450
W6GE**----E45	W6G JD 750C I & II	2311309
W6GE**----E46	W6G JD 850C I & II	2311309
W6GE**----E460	W6G JD 850K	2313382
W6GE**----H44	W6G DR TD15E PS	2311749
W6GE**----H45	W6G DR TD15E DD	2311749
W6GE**----H46	W6G DR TD15H PS	2311749
W6GE**----H47	W6G DRESSER TD15H TIER II, TD15M	2311749
W6GE**----K46	W6G KOM D65EX-12 & -15	2310718
W6GE**----K47	W6G KOM D61EX-12 & -15	2311733
W6GE**----R39	W6G CASE QUADTRAC	2311311
W6GE**----R40	W6G CASE 1650L	2310665
Power Control (push pull cable)		
W6GP**----A48	W6G FIAT, FIAT HITACHI; 14E, FD14, FD175, FD195, DX175, DX 195	2301472W
W6GP**----A49	W6G NEW HOLLAND DC-180	2304902W
W6GP**----C43	W6G CAT D6D, E	2301161W
W6GP**----C47	W6G CAT D6N W/MECHANICAL VALVE CONTROLS	2305618W
W6GP**----C48	W6G CAT D6H PS	2300737W
W6GP**----C49	W6G CAT D6H DD	2300737W
W6GP**----C480	W6G CAT D6H PS	2300737W
W6GP**----C481	W6G CAT D6H DD	2300737W
W6GP**----C50	W6G CAT D6R PS	2300737W
W6GP**----C71	W6G CAT D6R II & III, D6T	2300737W
W6GP**----C73	W6G CAT D6G	2305918W
W6GP**----C78	W6G CAT D6N W/ PILOT CONTROLS	2305618W
W6GP**----C81	W6G CAT D6N DIFF-STEER	2310078
W6GP**----C810	W6G CAT D6N TIER 4i	2315168
W6GP**----E41	W6G JD750, 750B	2301160W
W6GP**----E42	W6G JD 850, 850B W/CAB	2301160W
W6GP**----E43	W6G JD 850, 850B	2301160W
W6GP**----E44	W6G JD 750, 750B W/CAB	2301160W
W6GP**----E45	W6G JD 750C I & II	2301534W
W6GP**----E46	W6G JD 850C I & II	2301534W

(continued on next page)

Figure 2 - List of Installation Drawings (continued)

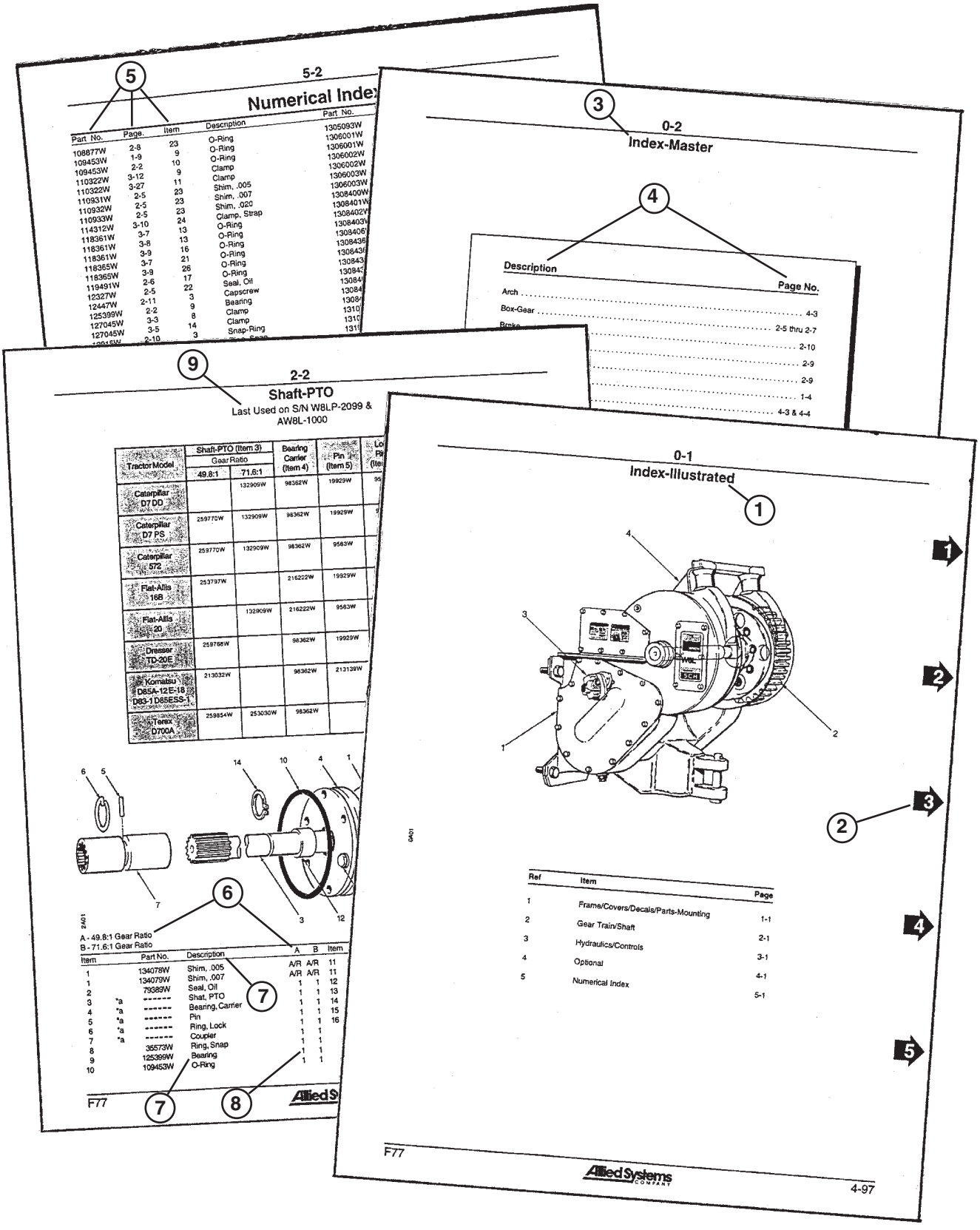
W6G INSTALLATION DRAWINGS BY TRACTOR

Winch Serial Number	Description	Installation Drawing Part Number
W6GP**----E460	W6G JD 850K	2313333
W6GP**----H44	W6G DR TD15E PS	2301173W
W6GP**----H45	W6G DR TD15E DD	2301173W
W6GP**----H46	W6G DR TD15H PS	2301173W
W6GP**----H47	W6G DRESSER TD15H TIER II, TD15M	2301173W
W6GP**----K46	W6G KOM D65EX-12 & -15	2301685W
W6GP**----K47	W6G KOM D61EX-12 & -15	2306267W
W6GP**----R39	W6G CASE QUADTRAC	2305395W
W6GP**----R40	W6G CASE 1650L	2310471
W6GP**----R49	W6G CASE 1850K	2304902W

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 Service Department of Allied Systems Company.

How to use the Illustrated Parts manual



When the part number and the next higher assembly is 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. Use the table of contents at the beginning of each chapter 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 (which immediately follows the illustrated index).

2. Locate the assembly on which the required part is used, and turn to the page indicated for that assembly. Proceed 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 indicates the major assembly. Part descriptions which are indented with dots 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. See page 0-6 for serial number information.

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

For any further information on parts, service or ordering, consult your local winch dealer, or contact Allied Systems Company:

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

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

Also see our website, www.alliedsystems.com, where the most current copy of this manual is always available.

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.

Oil Specifications

Recommended Oil List

Recommended Oils* - General Conditions			
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

Recommended Oils* - Low Temperature Conditions			
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

Oil Capacity

The oil capacity for the W6G winch is 19.5 gallons (73.8 Liters).

Frame/Covers/Decals/Mounting Parts

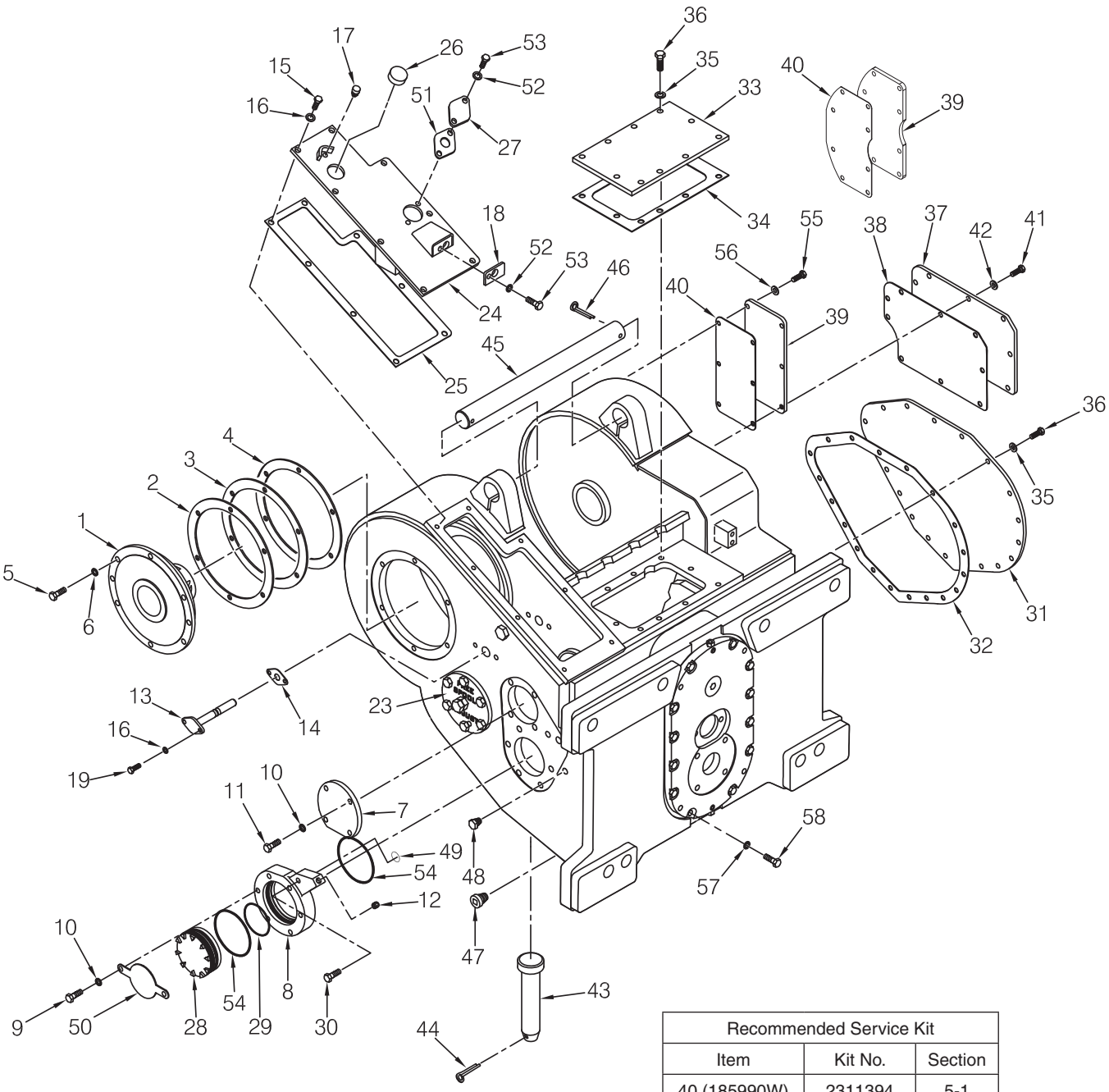
Frame/Covers . . . . . 1-2 thru 1-15

Mounting Parts . . . . . 1-16 thru 1-59

Nameplate & Decals 1-60

Frame/Covers

Power Controlled Winch with Freespool
Last Used on S/N AW6G-1049
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
40 (185990W)	2311394	5-1
40 (2304709W)	2311167	5-1
40 (2304709W)	2311168	5-1
14, 18, 25, 32, 34, 38, 40, 51	2302729W	5-1
49, 54	2311388	5-1

Frame/Covers

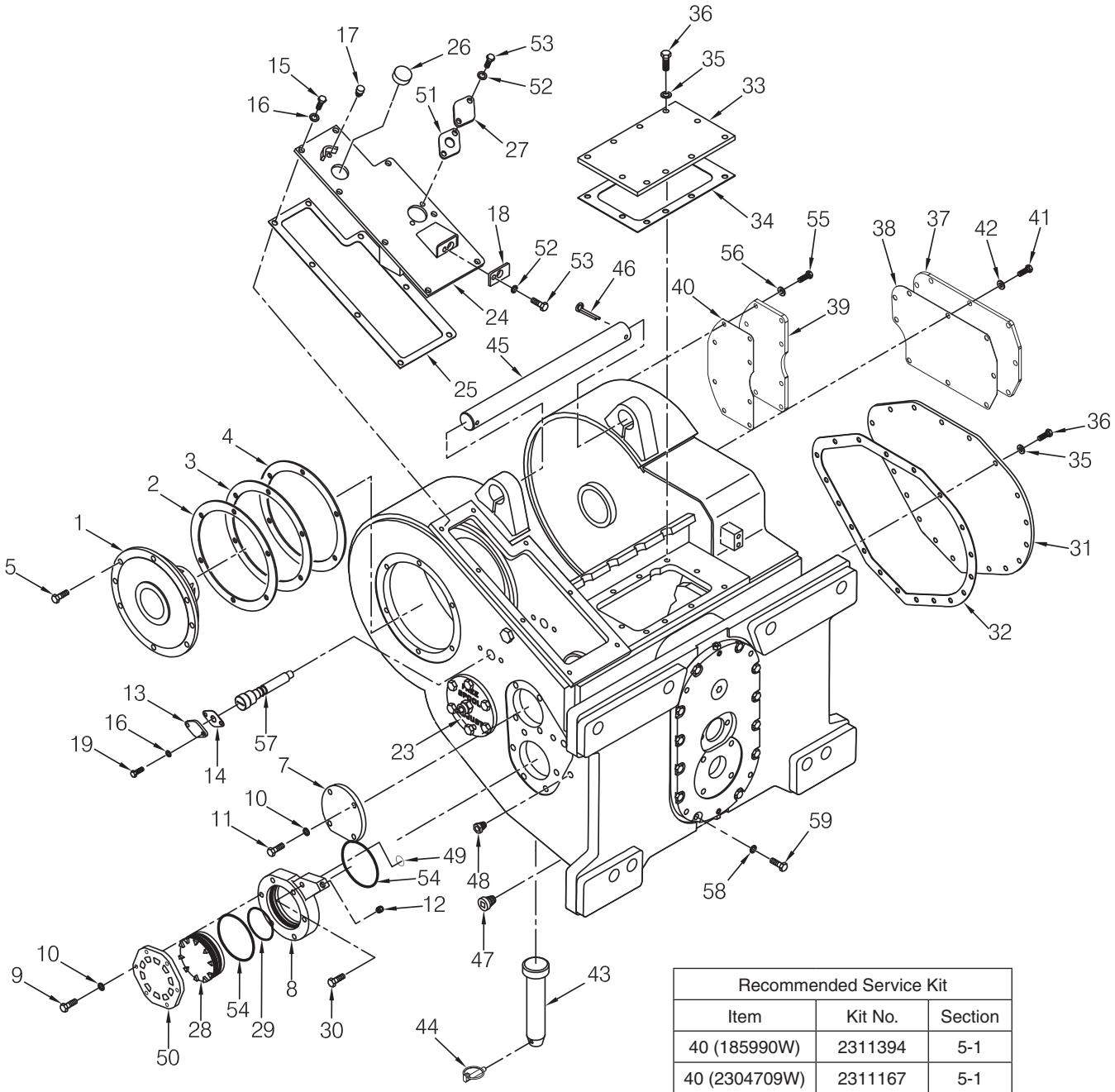
Power Controlled Winch with Freespool
Last Used on S/N AW6G-1049

Item		Part No.	Description	Qty
1		172810W	Retainer	1
2		175646W	Shim .005	AR
3		175647W	Shim .007	AR
4		175648W	Shim .020	AR
5		178402W	Capscrew	6
6		15158W	Washer	14
7		2300746W	Retainer, Bearing	1
8		2302479W	Housing, Bearing Retainer	1
9		2302498W	Capscrew	5
10		15158W	Washer	11
11		178402W	Capscrew	4
12		15347W	Fitting	1
13		151581W	Shaft	1
14		151646W	Gasket	1
15		178402W	Capscrew	8
16		15158W	Washer	32
17		21420W	Breather	1
18		303946W	Gasket	1
19		178402W	Capscrew	2
23		- - - - - - - -	Retainer (2-31 thru 2-35)	1
24		2300692W	Cover	1
25		2300693W	Gasket	1
26		15319W	Fitting	1
27		151589W	Plate	1
28	*d	2302481W	Retainer, Bearing	1
	*e	2304689W	Retainer, Bearing	1
29		15885W	O-Ring	1
30		307788W	Capscrew	2
31		2300687W	Cover	1
32		2300690W	Gasket	1
33	*a	2301689W	Plate	1
34	*a	2301690W	Gasket	1
35		15158W	Washer	29
36		178402W	Capscrew	29
37		2300688W	Cover	1
38		2300689W	Gasket	1
39	*f	2300508W	Plate	1
	*g	2304708W	Plate	1
40	*f	185990W	Gasket	1
	*g	2304709W	Gasket	1
41		179443W	Capscrew	9
42		15156W	Washer	9
43		95959W	Pin, Drawbar	1
44	*b	15273W	Pin, Cotter	1
	*c	2303221W	Pin, Retaining	1
45		196280W	Rod, Tie	1
46		15272W	Pin, Cotter	2
47		15316W	Pipe Fitting	1
48		15303W	Pipe Fitting	1
49		63105W	O-Ring	1
50	*d	2302483W	Keeper, Bearing Retainer	1
	*e	2304690W	Keeper, Bearing Retainer	1
51		151646W	Gasket	1
52		15158W	Washer	3
53		178402W	Capscrew	3
54		55289W	O-Ring	2
55	*f	179443W	Capscrew	6
	*g	178402W	Capscrew	8
56	*f	15156W	Washer	6
	*g	15158W	Washer	8
57		221771W	Washer	12
58		182209W	Capscrew	12

*a	Used on all but Komatsu
*b	Last Used on S/N AW6G-1016
*c	First Used on S/N AW6G-1017
*d	Last Used on S/N AW6G-1024
*e	First Used on S/N AW6G-1025
*f	Last Used on S/N AW6G-1027
*g	First Used on S/N AW6G-1028

Frame/Covers

Power Controlled Winch with Freespool
First Used S/N AW6G-1050
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
40 (185990W)	2311394	5-1
40 (2304709W)	2311167	5-1
40 (2304709W)	2311168	5-1
14, 18, 25, 32, 34, 38, 40, 51	2302729W	5-1
49, 54	2311388	5-1

Frame/Covers

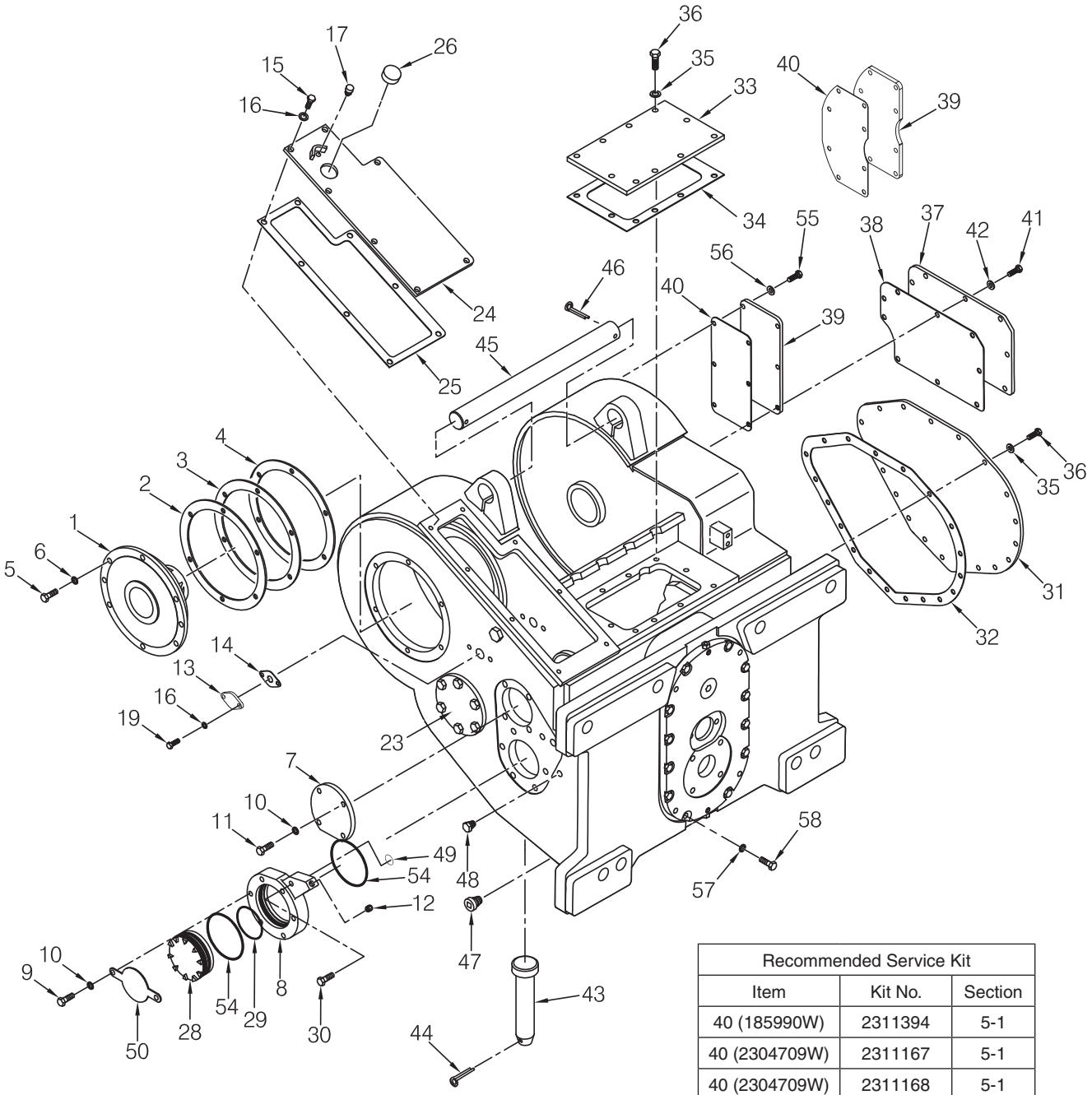
Power Controlled Winch with Freespool
First Used S/N AW6G-1050

Item		Part No.	Description	Qty
1		172810W	Retainer	1
2		175646W	Shim .005	AR
3		175647W	Shim .007	AR
4		175648W	Shim .020	AR
5		2303848W	Capscrew	6
7		2300746W	Retainer, Bearing	1
8		2302479W	Housing, Bearing Retainer	1
9		2302498W	Capscrew	5
10		15158W	Washer	11
11		178402W	Capscrew	4
12		15347W	Fitting	1
13		151589W	Plate	1
14		151646W	Gasket	1
15		178402W	Capscrew	8
16		15158W	Washer	32
17		21420W	Breather	1
18		303946W	Gasket	1
19		178402W	Capscrew	2
23		- - - - - - - -	Retainer (2-31 thru 2-35)	1
24		2300692W	Cover	1
25		2300693W	Gasket	1
26		15319W	Fitting	1
27		151589W	Plate	1
28		2305994W	Retainer, Bearing	1
29		15885W	O-Ring	1
30		307788W	Capscrew	2
31		2300687W	Cover	1
32		2300690W	Gasket	1
33	*a	2301689W	Plate	1
34	*a	2314007	Gasket	1
35		15158W	Washer	29
36		178402W	Capscrew	29
37		2305119W	Cover	1
38		2314008	Gasket	1
39		2304708W	Plate	1
40		2314005	Gasket	1
41		179443W	Capscrew	9
42		15156W	Washer	9
43		95959W	Pin, Drawbar	1
44		2303221W	Pin, Retaining	1
45		196280W	Rod, Tie	1
46		15272W	Pin, Cotter	2
47		15316W	Fitting, Pipe	1
48	*b	2305101W	Fitting, Sight Gauge	1
	*c	14595W	Fitting, Sight Gauge	1
49		63105W	O-Ring	1
50		2304690W	Keeper, Bearing Retainer	1
51		151646W	Gasket	1
52		15158W	Washer	3
53		178402W	Capscrew	3
54		55289W	O-Ring	2
55		178402W	Capscrew	8
56		15158W	Washer	8
57		2305512W	Shaft, Freespool	1
58		221771W	Washer	12
59		182209W	Capscrew	12

*a Used on all but Komatsu
*b Last Used on S/N AW6G-1131
*c First Used on S/N AW6G-1132

Frame/Covers

Power Controlled Winch without Freespool
Last Used on S/N AW6G-1049
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
40 (185990W)	2311394	5-1
40 (2304709W)	2311167	5-1
40 (2304709W)	2311168	5-1
14, 25, 32, 34, 38, 40	2302729W	5-1
49, 54	2311388	5-1

Frame/Covers

Power Controlled Winch without Freespool
Last Used on S/N AW6G-1049

Item		Part No.	Description	Qty
1		172810W	Retainer	1
2		175646W	Shim .005	AR
3		175647W	Shim .007	AR
4		175648W	Shim .020	AR
5		178402W	Capscrew	6
6		15158W	Washer	14
7		2300746W	Retainer, Bearing	1
8		2302479W	Housing, Bearing Retainer	1
9		2302498W	Capscrew	5
10		15158W	Washer	11
11		178402W	Capscrew	4
12		15347W	Fitting	1
13		151589W	Plate	1
14		151646W	Gasket	1
15		178402W	Capscrew	8
16		15158W	Washer	32
17		21420W	Breather	1
19		178403W	Capscrew	2
23		280262W	Cover	1
24		2300721W	Cover	1
25		2300693W	Gasket	1
26		15319W	Fitting	1
28	*d	2302481W	Retainer, Bearing	1
	*e	2304689W	Retainer, Bearing	1
29		15885W	O-Ring	1
30		307788W	Capscrew	2
31		2300687W	Cover	1
32		2300690W	Gasket	1
33	*a	2301689W	Plate	1
34	*a	2301690W	Gasket	1
35		15158W	Washer	29
36		178402W	Capscrew	29
37		2300688W	Cover	1
38		2300689W	Gasket	1
39	*f	2300508W	Plate	1
	*g	2304708W	Plate	1
40	*f	185990W	Gasket	1
	*g	2304709W	Gasket	1
41		179443W	Capscrew	9
42		15156W	Washer	9
43		95959W	Pin, Drawbar	1
44	*b	15273W	Pin, Cotter	1
	*c	2303221W	Pin, Retaining	1
45		196280W	Rod, Tie	1
46		15272W	Pin, Cotter	2
47		15316W	Pipe Fitting	1
48		15303W	Pipe Fitting	1
49		63105W	O-Ring	1
50	*d	2302483W	Keeper, Bearing Retainer	1
	*e	2304690W	Keeper, Bearing Retainer	1
54		55289W	O-Ring	2
55	*f	179443W	Capscrew	6
	*g	178402W	Capscrew	8
56	*f	15156W	Washer	6
	*g	15158W	Washer	8
57		221771W	Washer	12
58		182209W	Capscrew	12

*a	Used on all but Komatsu
*b	Last Used on S/N AW6G-1016
*c	First Used on S/N AW6G-1017
*d	Last Used on S/N AW6G-1024
*e	First Used on S/N AW6G-1025
*f	Last Used on S/N AW6G-1027
*g	First Used on S/N AW6G-1028

Frame/Covers

Power Controlled Winch without Freespool
First Used S/N AW6G-1050
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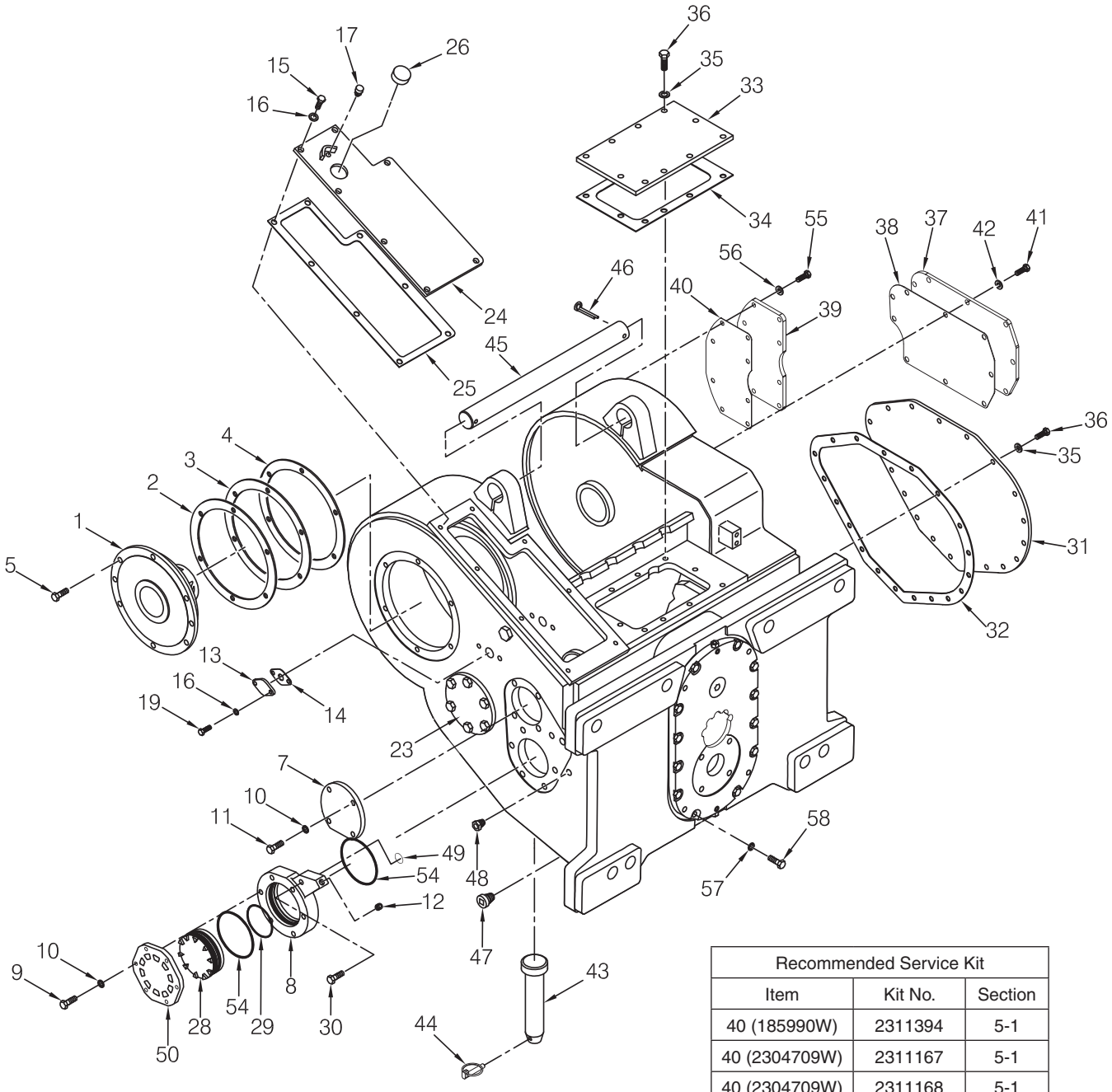


Recommended Service Kit		
Item	Kit No.	Section
40 (185990W)	2311394	5-1
40 (2304709W)	2311167	5-1
40 (2304709W)	2311168	5-1
14, 25, 32, 34, 38, 40	2302729W	5-1
49, 54	2311388	5-1

Frame/Covers

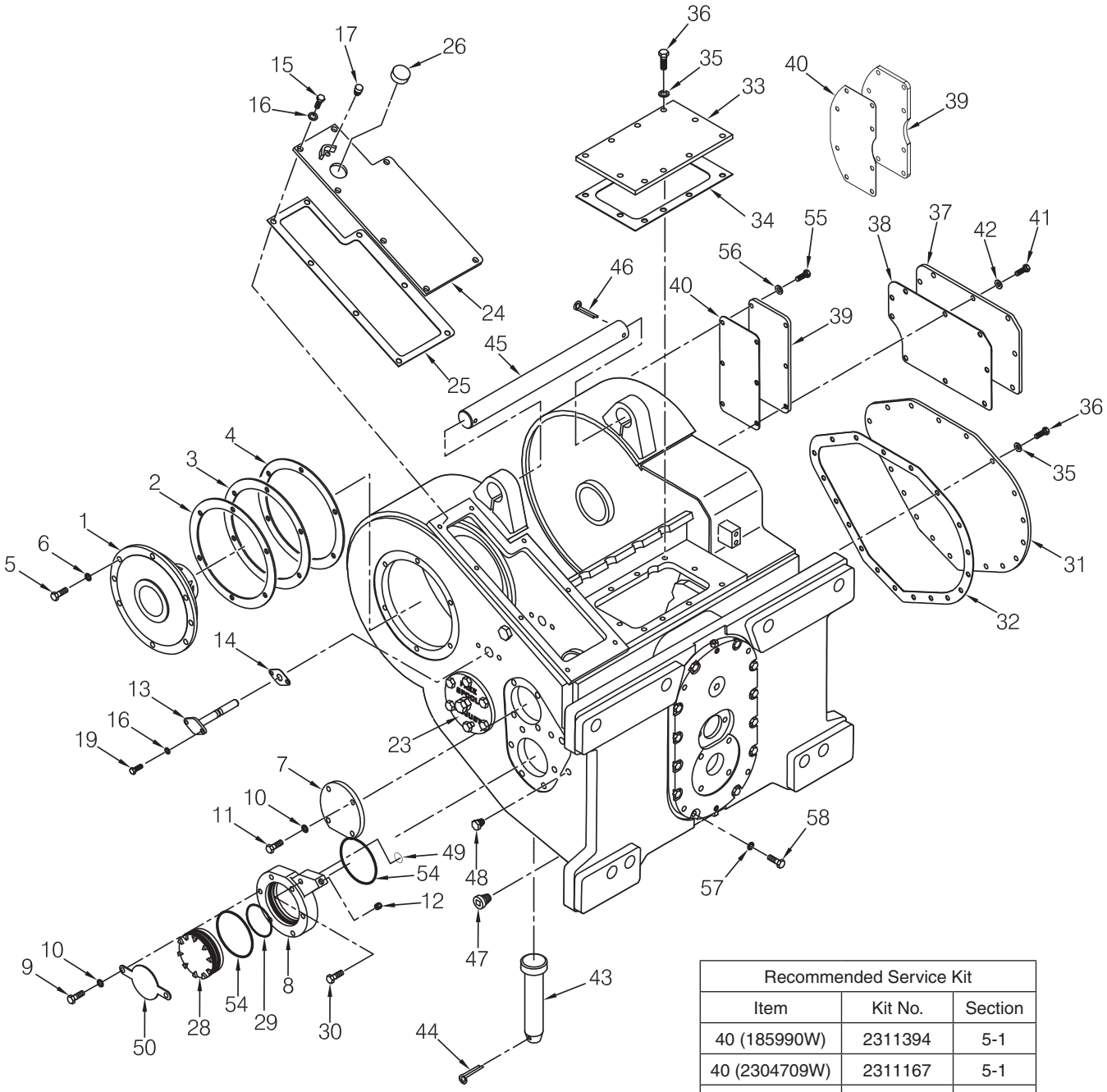
Power Controlled Winch without Freespool
First Used S/N AW6G-1050
Page 2 of 2

Item		Part No.	Description	Qty
1		172810W	Retainer	1
2		175646W	Shim .005	AR
3		175647W	Shim .007	AR
4		175648W	Shim .020	AR
5		2303848W	Capscrew	6
7		2300746W	Retainer, Bearing	1
8		2302479W	Housing, Bearing Retainer	1
9		2302498W	Capscrew	5
10		15158W	Washer	11
11		178402W	Capscrew	4
12		15347W	Fitting	1
13		151589W	Plate	1
14		151646W	Gasket	1
15		178402W	Capscrew	8
16		15158W	Washer	32
17		21420W	Breather	1
19		178402W	Capscrew	2
23		280262W	Cover	1
24		2300721W	Cover	1
25		2300693W	Gasket	1
26		15319W	Fitting	1
28		2305994W	Retainer, Bearing	1
29		15885W	O-Ring	1
30		307788W	Capscrew	2
31		2300687W	Cover	1
32		2300690W	Gasket	1
33	*a	2301689W	Plate	1
34	*a	2314007	Gasket	1
35		15158W	Washer	29
36		178402W	Capscrew	29
37		2305119W	Cover	1
38		2314008	Gasket	1
39		2304708W	Plate	1
40		2314005	Gasket	1
41		179443W	Capscrew	9
42		15156W	Washer	9
43		95959W	Pin, Drawbar	1
44		2303221W	Pin, Retaining	1
45		196280W	Rod, Tie	1
46		15272W	Pin, Cotter	2
47		15316W	Fitting, Pipe	1
48	*b	2305101W	Fitting, Sight Gauge	1
	*c	14595W	Fitting, Sight Gauge	1
49		63105W	O-Ring	1
50		2304690W	Keeper, Bearing Retainer	1
54		55289W	O-Ring	2
55		178402W	Capscrew	8
56		15158W	Washer	8
57		221771W	Washer	12
58		182209W	Capscrew	12

*a Used on all but Komatsu
*b Last Used on S/N AW6G-1131
*c First Used on S/N AW6G-1132

Frame/Covers

Electronic Controlled Winch with Freespool
Last Used on S/N AW6G-1049
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
40 (185990W)	2311394	5-1
40 (2304709W)	2311167	5-1
40 (2304709W)	2311168	5-1
14, 25, 32, 34, 38, 40	2302729W	5-1
49, 54	2311388	5-1

Frame/Covers

Electronic Controlled Winch with Freespool
Last Used on S/N AW6G-1049

Item		Part No.	Description	Qty
1		172810W	Retainer	1
2		175646W	Shim .005	AR
3		175647W	Shim .007	AR
4		175648W	Shim .020	AR
5		178402W	Capscrew	6
6		15158W	Washer	14
7		2300746W	Retainer, Bearing	1
8		2302479W	Housing, Bearing Retainer	1
9		2302498W	Capscrew	5
10		15158W	Washer	11
11		178402W	Capscrew	4
12		15347W	Fitting	1
13		151581W	Shaft	1
14		151646W	Gasket	1
15		178402W	Capscrew	8
16		15158W	Washer	32
17		21420W	Breather	1
19		178402W	Capscrew	2
23		- - - - - - - -	Retainer (2-31 thru 2-35)	1
24		2300721W	Cover	1
25		2300693W	Gasket	1
26		15319W	Fitting	1
27		151589W	Plate	1
28	*d	2302481W	Retainer, Bearing	1
	*e	2304689W	Retainer, Bearing	1
29		15885W	O-Ring	1
30		307788W	Capscrew	2
31		2300687W	Cover	1
32		2300690W	Gasket	1
33	*a	2301689W	Plate	1
34	*a	2301690W	Gasket	1
35		15158W	Washer	29
36		178402W	Capscrew	29
37		2300688W	Cover	1
38		2300689W	Gasket	1
39	*f	2300508W	Plate	1
39	*g	2304708W	Plate	1
40	*f	185990W	Gasket	1
	g	2304709W	Gasket	1
41		179443W	Capscrew	9
42		15156W	Washer	9
43		95959W	Pin, Drawbar	1
44	*b	15273W	Pin, Cotter	1
	*c	2303221W	Pin, Retaining	1
45		196280W	Rod, Tie	1
46		15272W	Pin, Cotter	2
47		15316W	Pipe Fitting	1
48		15303W	Pipe Fitting	1
49		63105W	O-Ring	1
50	*d	2302483W	Keeper, Bearing Retainer	1
	*e	2304690W	Keeper, Bearing Retainer	1
52		15158W	Washer	3
53		178402W	Capscrew	3
54		55289W	O-Ring	2
55	*f	179443W	Capscrew	6
	*g	178402W	Capscrew	8
56	*f	15156W	Washer	6
	*g	15158W	Washer	8
57		221771W	Washer	12
58		182209W	Capscrew	12

*a	Used on All but Komatsu
*b	Last Used on S/N AW6G-1016
*c	First Used on S/N AW6G-1017
*d	Last Used on S/N AW6G-1024
*e	First Used on S/N AW6G-1025
*f	Last Used on S/N AW6G-1027
*g	First Used on S/N AW6G-1028

Frame/Covers

Electronic Controlled Winch with Freespool
First Used S/N AW6G-1050
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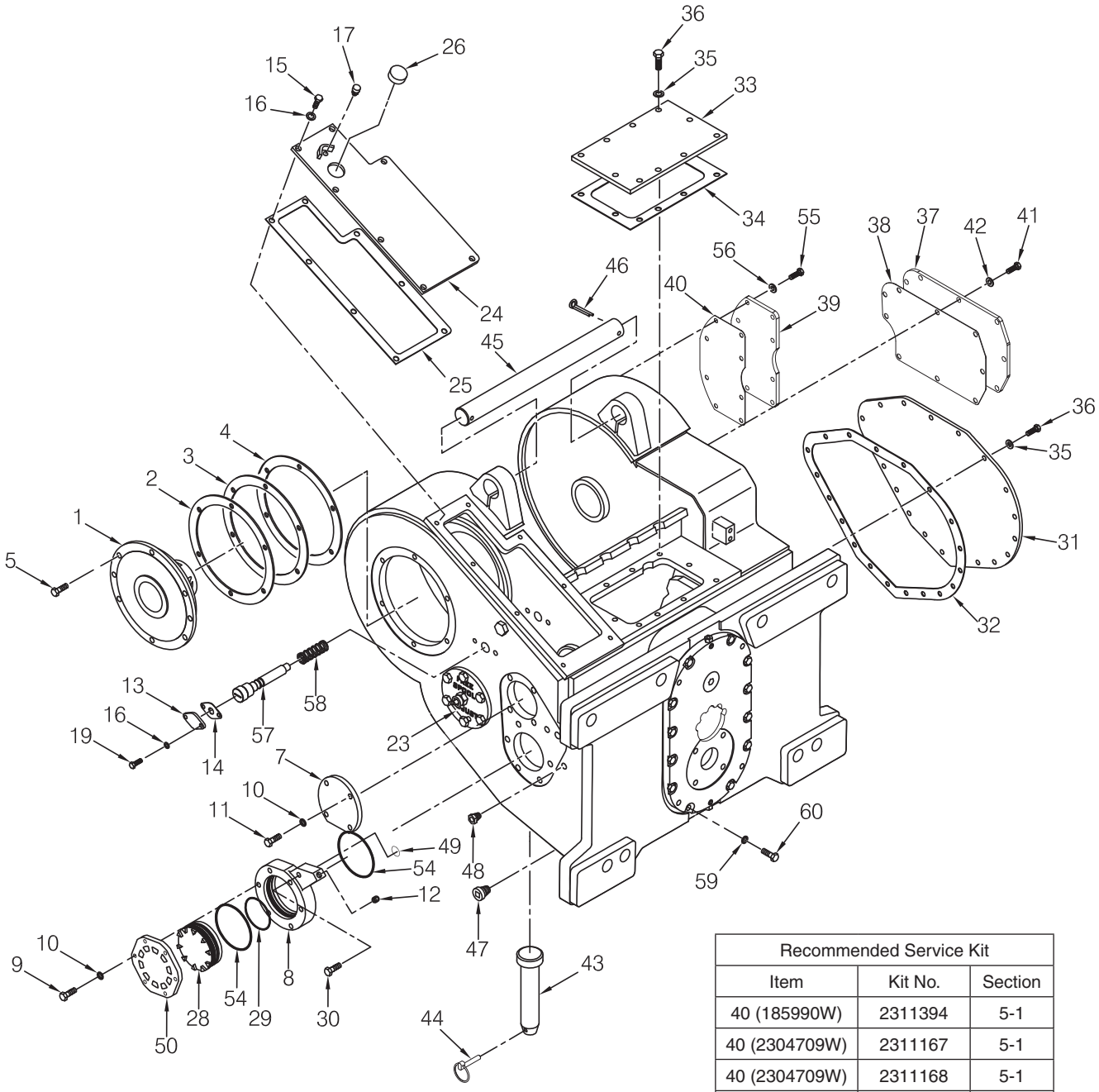


Recommended Service Kit		
Item	Kit No.	Section
40 (185990W)	2311394	5-1
40 (2304709W)	2311167	5-1
40 (2304709W)	2311168	5-1
14, 25, 32, 34, 38, 40	2302729W	5-1
49, 54	2311388	5-1

Frame/Covers

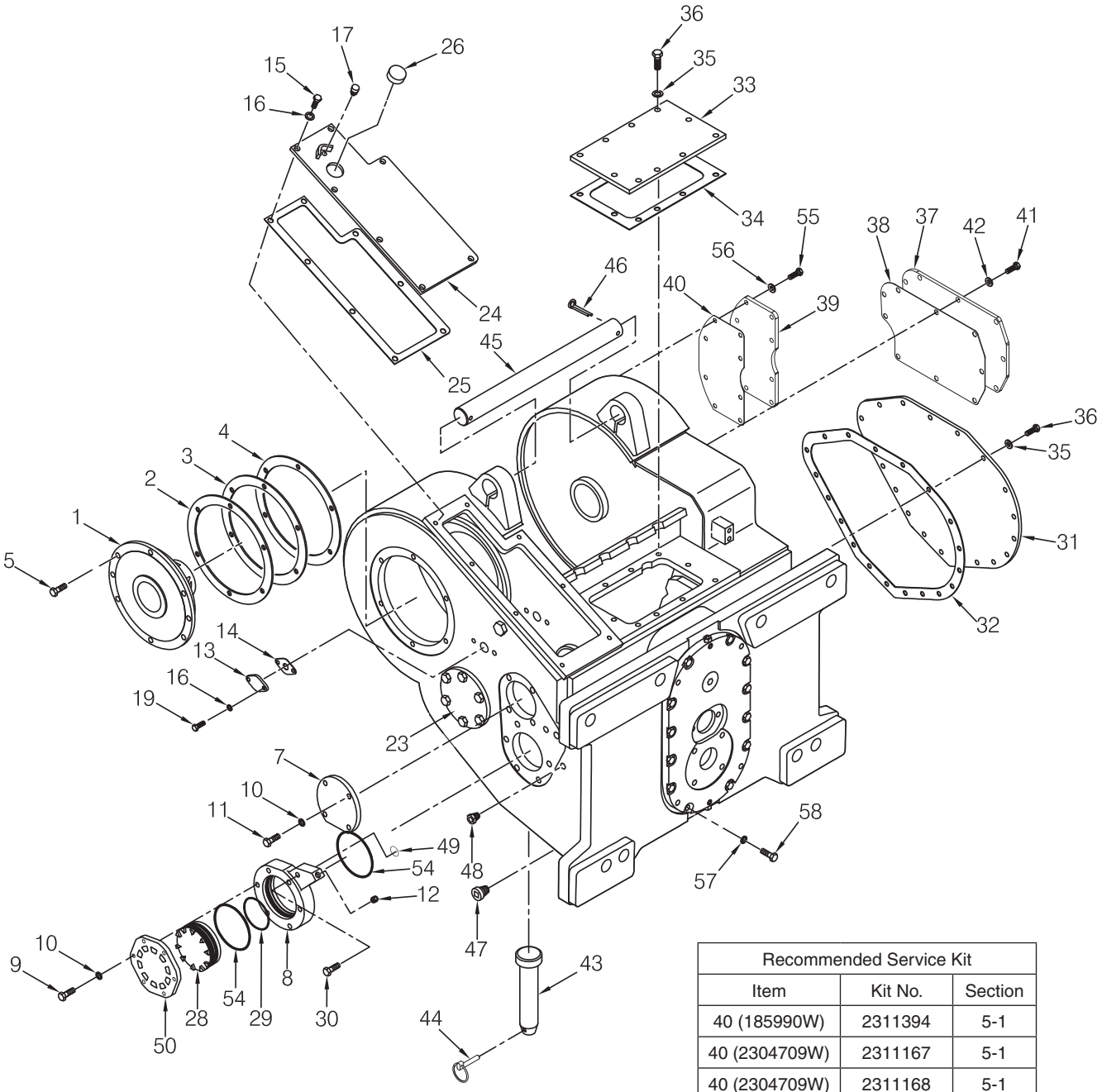
Electronic Controlled Winch with Freespool
First Used S/N AW6G-1050
Page 2 of 2

Item		Part No.	Description	Qty
1		172810W	Retainer	1
2		175646W	Shim .005	AR
3		175647W	Shim .007	AR
4		175648W	Shim .020	AR
5		2303848W	Capscrew	6
7		2300746W	Retainer, Bearing	1
8		2302479W	Housing, Bearing Retainer	1
9		2302498W	Capscrew	5
10		15158W	Washer	11
11		178402W	Capscrew	4
12		15347W	Fitting	1
13		151589W	Plate	1
14		151646W	Gasket	1
15		178402W	Capscrew	8
16		15158W	Washer	32
17		21420W	Breather	1
19		178402W	Capscrew	2
23		- - - - - - - -	Retainer (2-31 thru 2-35)	1
24		2300721W	Cover	1
25		2300693W	Gasket	1
26		15319W	Fitting	1
28	*b	2305994W	Retainer, Bearing	1
29		15885W	O-Ring	1
30		307788W	Capscrew	2
31		2300687W	Cover	1
32		2300690W	Gasket	1
33	*a	2301689W	Plate	1
34	*a	2314007	Gasket	1
35		15158W	Washer	29
36		178402W	Capscrew	29
37		2305119W	Cover	1
38		2314008	Gasket	1
39		2304708W	Plate	1
40		2314005	Gasket	1
41		179443W	Capscrew	9
42		15156W	Washer	9
43		95959W	Pin, Drawbar	1
44		2303221W	Pin, Retaining	1
45		196280W	Rod, Tie	1
46		15272W	Pin, Cotter	2
47		15316W	Fitting, Pipe	1
48	*c	2305101W	Fitting, Sight Gauge	1
	*d	14595W	Fitting, Sight Gauge	1
49		63105W	O-Ring	1
50		2304690W	Keeper, Bearing Retainer	1
54		55289W	O-Ring	2
55		178402W	Capscrew	8
56		15158W	Washer	8
57		2305098W	Freespool Shaft	1
58		2305096W	Spring	1
59		221771W	Washer	12
60		182209W	Capscrew	12

*a Used on All but Komatsu
*b First Used on S/N AW6G-1065
*c Last Used on S/N AW6G-1131
*d First Used on S/N AW6G-1132

Frame/Covers

Electronic Controlled Winch without Freespool
First Used S/N AW6G-1050
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
40 (185990W)	2311394	5-1
40 (2304709W)	2311167	5-1
40 (2304709W)	2311168	5-1
14, 25, 32, 34, 38, 40	2302729W	5-1
49, 54	2311388	5-1

Frame/Covers

Electronic Controlled Winch without Freespool
First Used S/N AW6G-1050
Page 2 of 2

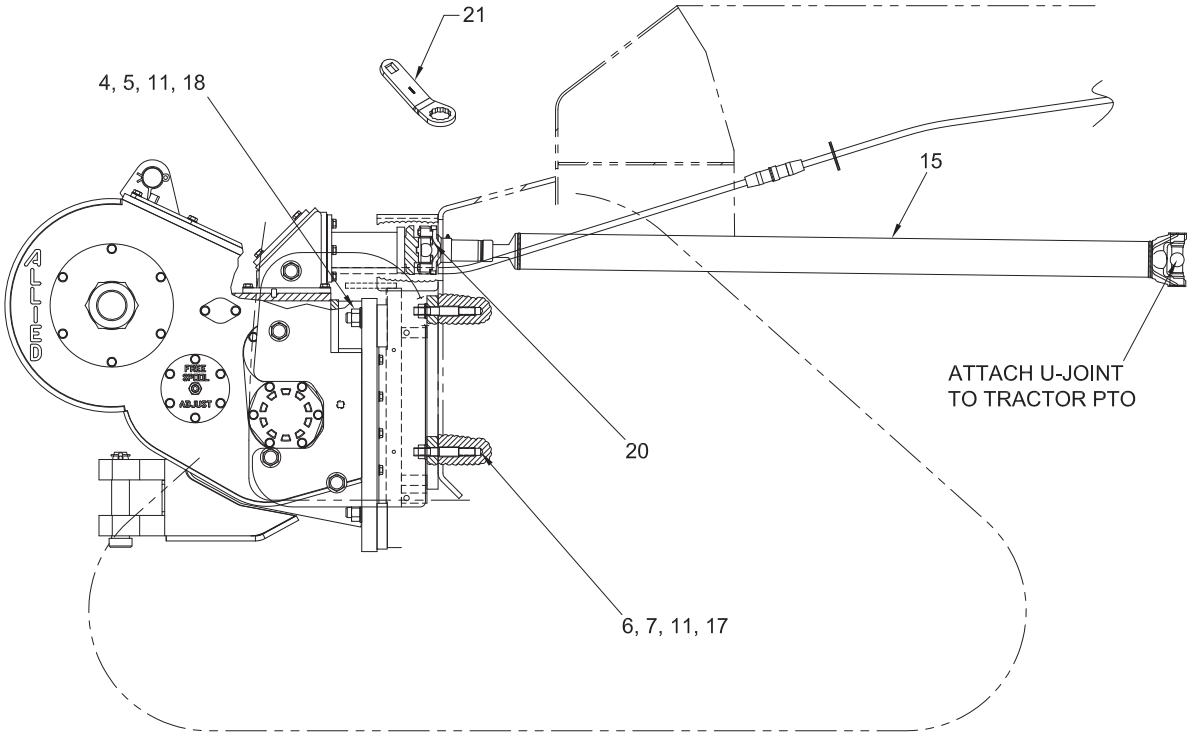
Item		Part No.	Description	Qty
1		172810W	Retainer	1
2		175646W	Shim .005	AR
3		175647W	Shim .007	AR
4		175648W	Shim .020	AR
5		2303848W	Capscrew	6
7		2300746W	Retainer, Bearing	1
8		2302479W	Housing, Bearing Retainer	1
9		2302498W	Capscrew	5
10		15158W	Washer	11
11		178402W	Capscrew	4
12		15347W	Fitting	1
13		151589W	Plate	1
14		151646W	Gasket	1
15		178402W	Capscrew	8
16		15158W	Washer	32
17		21420W	Breather	1
19		178402W	Capscrew	2
23		280262W	Cover (2-30)	1
24		2300721W	Cover	1
25		2300693W	Gasket	1
26		15319W	Fitting	1
28		2305994W	Retainer, Bearing	1
29		15885W	O-Ring	1
30		307788W	Capscrew	2
31		2300687W	Cover	1
32		2300690W	Gasket	1
33	*a	2301689W	Plate	1
34	*a	2314007	Gasket	1
35		15158W	Washer	29
36		178402W	Capscrew	29
37		2305119W	Cover	1
38		2314008	Gasket	1
39		2304708W	Plate	1
40		2314005	Gasket	1
41		179443W	Capscrew	9
42		15156W	Washer	9
43		95959W	Pin, Drawbar	1
44		2303221W	Pin, Retaining	1
45		196280W	Rod, Tie	1
46		15272W	Pin, Cotter	2
47		15316W	Fitting, Pipe	1
48	*b	2305101W	Fitting, Sight Gauge	1
	*c	14595W	Fitting, Sight Gauge	1
49		63105W	O-Ring	1
50		2304690W	Keeper, Bearing Retainer	1
54		55289W	O-Ring	2
55		178402W	Capscrew	8
56		15158W	Washer	8
57		221771W	Washer	12
58		182209W	Capscrew	12

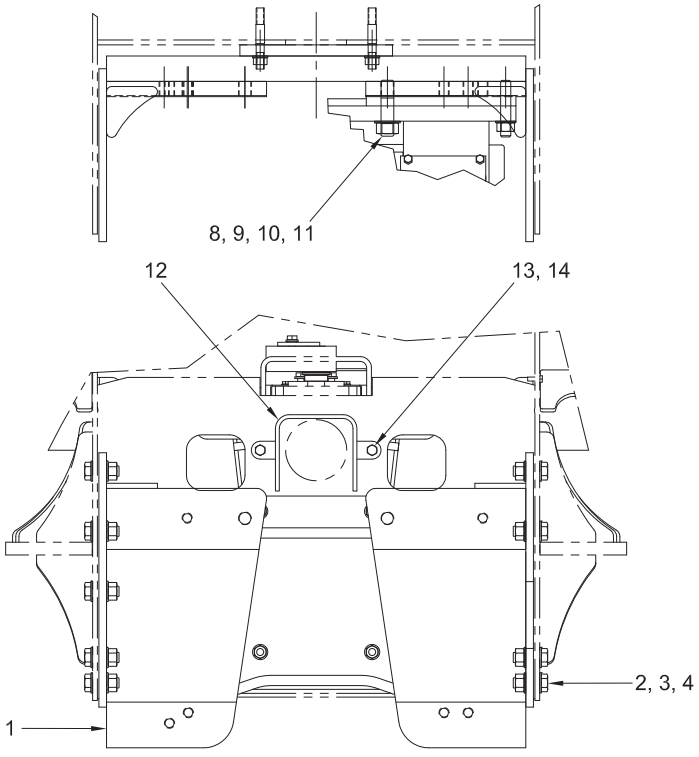
*a Used on All but Komatsu
*b Last Used on S/N AW6G-1131
*c First Used on S/N AW6G-1132

Mounting Parts

Case Quadtrac (R39)

Page 1 of 2





REAR VIEW
(WITHOUT WINCH)

Mounting Parts

Case Quadtrac (R39)

Page 1 of 2

Item		Part No.	Description	Qty
1		2305370W	Bracket, Mounting	1
2	*c	221692W	Capscrew	9
3		221720W	Nut	9
4		221780W	Washer	24
5	*a, *b	2301144W	Stud	6
6	*a, *b	2305379W	Stud	4
7		292659W	Nut	4
8	*a, *b	216224W	Stud	2
9		221725W	Nut	2
10		15128W	Washer	2
12		2305380W	Guard, PTO	1
13	*c	226458W	Capscrew	2
14		15160W	Washer	2
15		2305396W	Driveshaft	1
		2301006W	. Spider & Bearing Assembly	1
		2305398W	. Bearing Kit	1
17		221777W	Washer	4
18		221721W	Nut	6
20	*c	221507W	Capscrew	4
21		2310958	Wrench, Torque Extension	1

*a Use 230064W Stud Locker Kit (Tractor End Only)

*b Use 318702W Thread Lock (Winch End Only)

*c Use 318702W Thread Lock

Mounting Parts

Case 1650L (R40)

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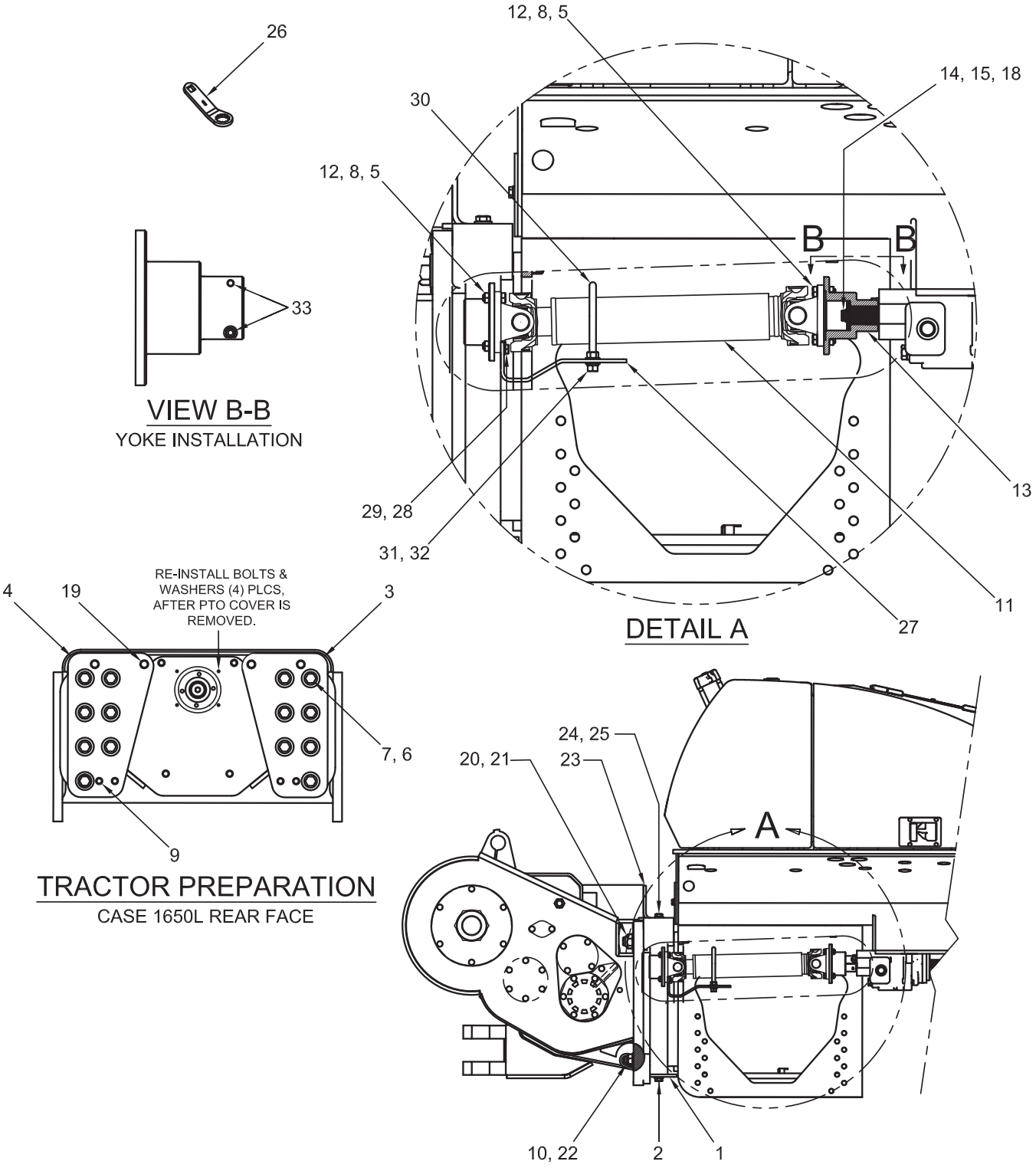


Mounting Parts

Case 1650L (R40)

Page 2 of 2

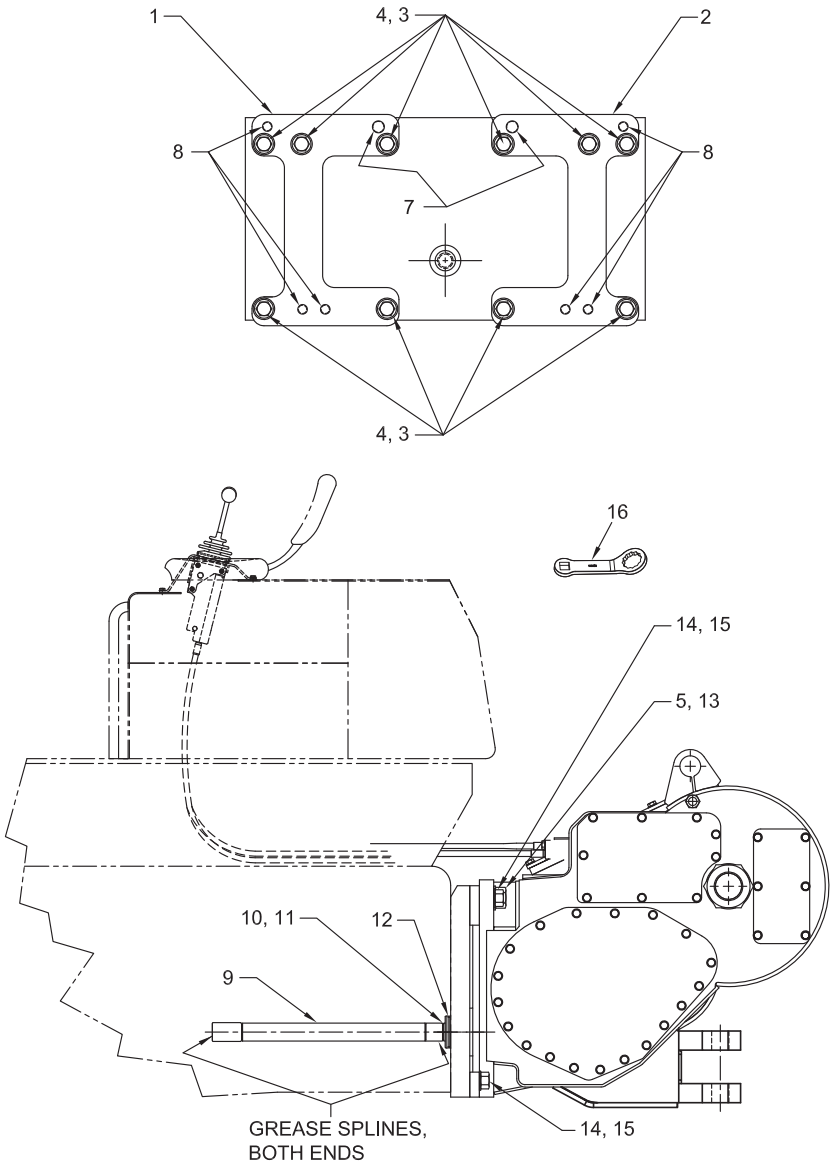
Item		Part No.	Description	Qty
1		2310472	Guard	1
2	*a	2303905W	Screw, Flange	4
3		2310451	Bracket, Mounting - RH	1
4		2310454	Bracket, Mounting - LH	1
5		221771W	Washer	8
6	*a	274044W	Capscrew	14
7		296434W	Washer	14
8		221712W	Nut	8
9		2301144W	Stud	4
10		221780W	Washer	4
11		2310449	Driveshaft, Damped	1
12	*a	2310470	Bolt, Flange	8
13		2314160	Yoke, Flange	1
14		296422W	Washer	1
15	*a	292526W	Capscrew	1
17		129563W	Clamp, Strap (Not Shown)	5
18		58916W	Ring, Snap	1
19		2301140W	Stud	4
20		15128W	Washer	4
21	*a	221725W	Nut	4
22	*a	221721W	Nut	4
23		2310509	Guard	1
24		Y01C-1048	Capscrew	2
25		221775W	Washer	2
26		2310958	Wrench, Torque Extension	1
27		2314043	Bracket, Guard	1
28		293628W	Capscrew	2
29		296420W	Washer	2
30		2304350W	Assembly, U-Bolt	1
31		15158W	Washer	2
32		15135W	Washer	4
33	*a	16328W	Capscrew	2

*a Use 318702W Thread Lock

Mounting Parts

Case 1850K (R49)

TRACTOR PREPARATION

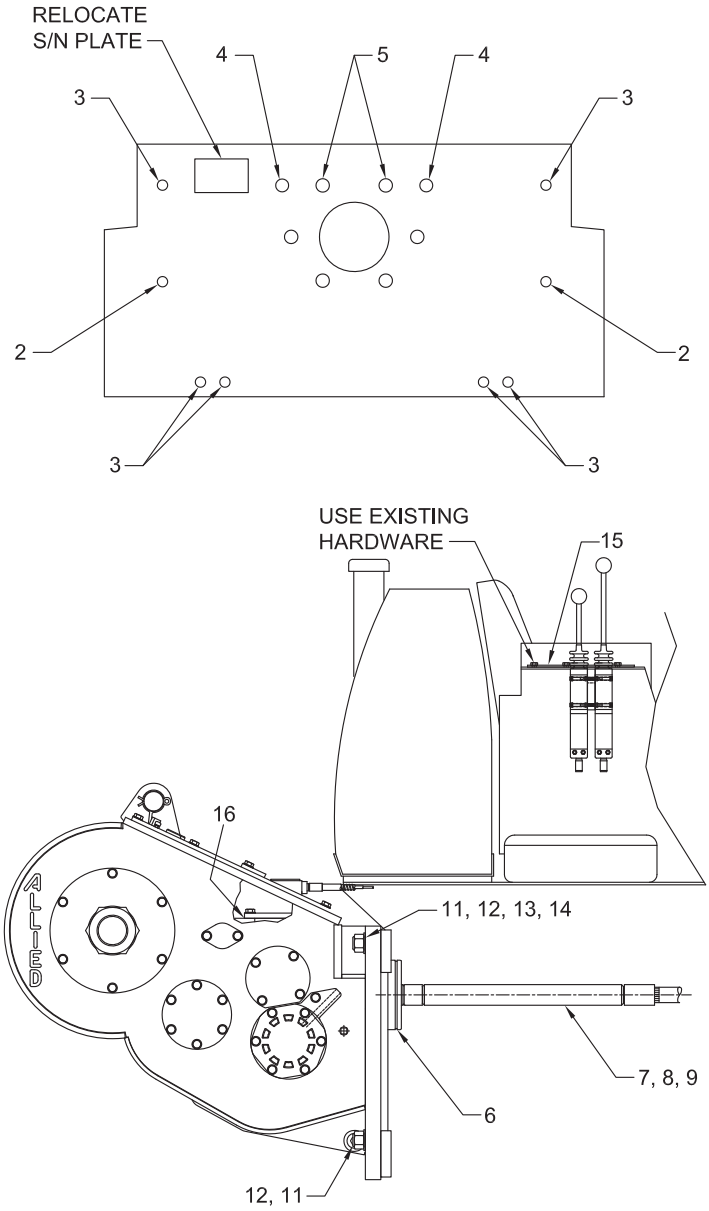


Item		Part No.	Description	Qty
1		2301427W	Spacer, LH	1
2		2301428W	Spacer, RH	1
3		2301477W	Capscrew	10
4		296434W	Washer	10
5		221725W	Nut	2
7	*a	2301140W	Stud	2
8	*a	2301144W	Stud	6
9		2304904W	Shaft, PTO	1
10		19928W	Pin	1
11		9554W	Ring, Lock	1
12		15880W	O-Ring	1
13		15128W	Washer	2
14	*b	221721W	Nut	6
15		221780W	Washer	6
16		2310958	Wrench, Torque Extension	1

*a Use 230064W Loctite Kit
*b Use 245231W Thread Lock

Mounting Parts

Caterpillar D6D PS, D6E PS (C43)



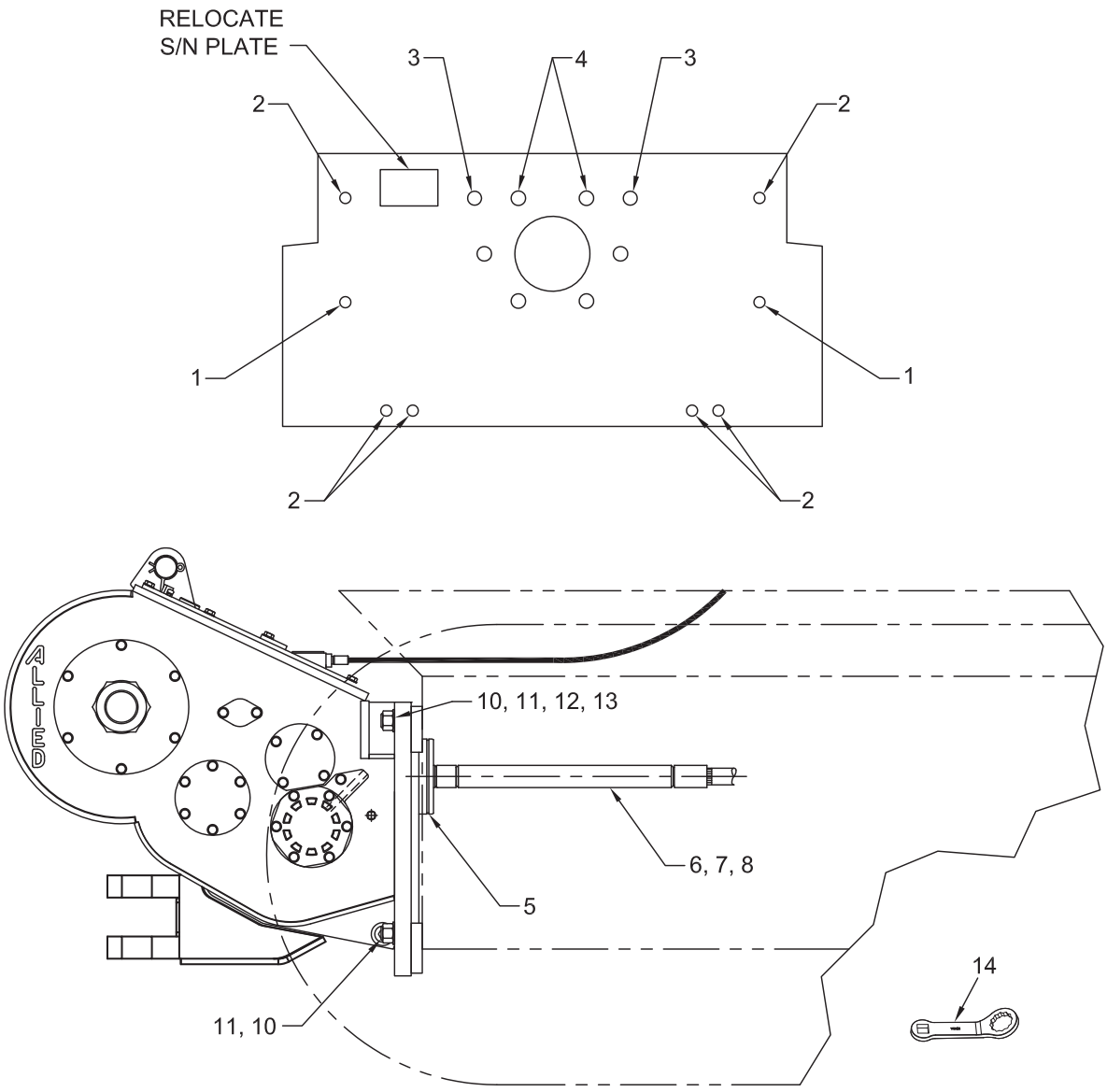
Item		Part No.	Description	Qty
2		18005W	Plug	2
3	*a	253939W	Stud	6
4	*a	2300783W	Stud	2
5		18004W	Plug	6
6		90937W	O-Ring	1
7		2300789W	PTO	1
8		19928W	Pin	1
9		9554W	Ring, Lock	1
11	*b	221721W	Nut	6

Item		Part No.	Description	Qty
12		221780W	Washer	6
13	*b	221725W	Nut	2
14		15128W	Washer	2
15		2304506W	Bracket, Mounting	1
16		2301690W	Gasket	1

*a Use 230064W Loctite Kit
*b Use 245231 Thread Lock

Mounting Parts

Caterpillar D6G PS (C73)



Item		Part No.	Description	Qty
1		18005W	Plug	2
2	*a	253939W	Stud	6
3	*a	2300783W	Stud	2
4		18004W	Plug	6
5		90937W	O-Ring	1
6		2300789W	PTO	1
7		19928W	Pin	1
8		9554W	Ring, Lock	1

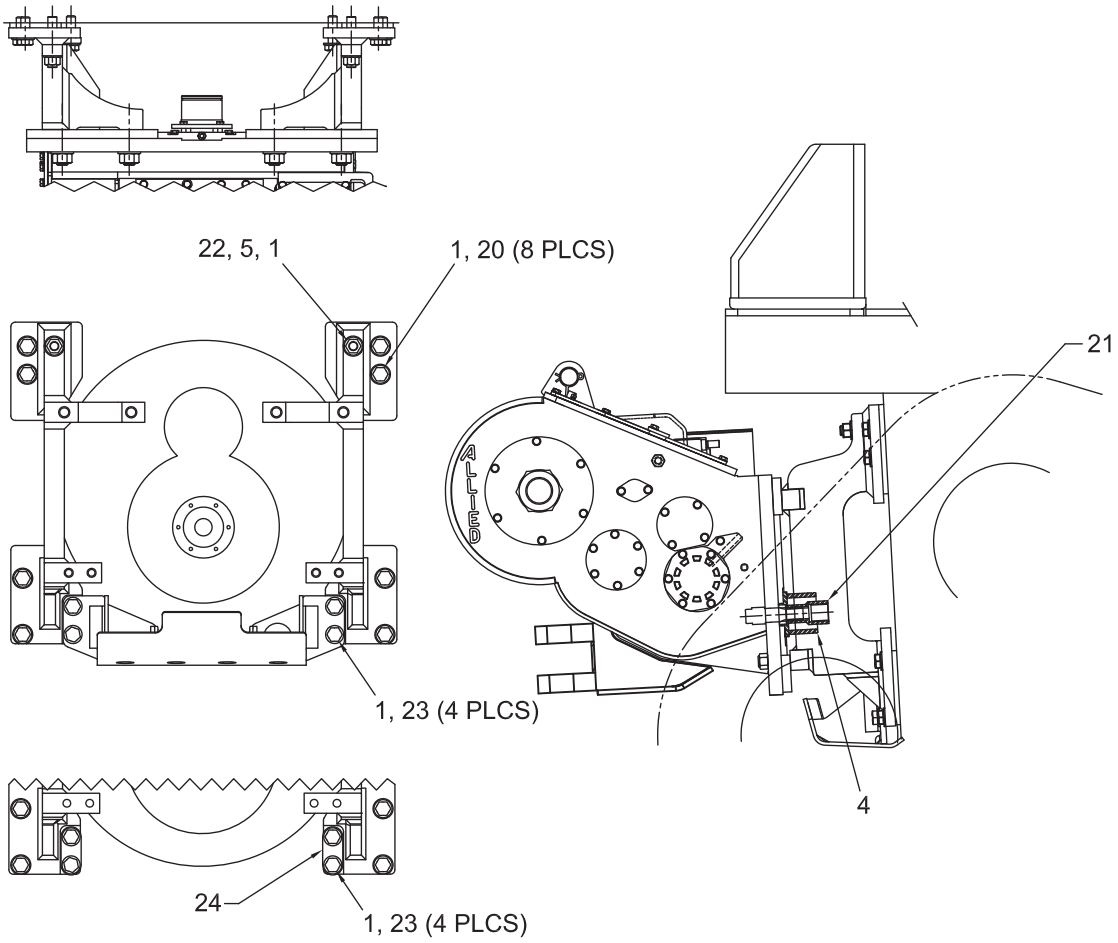
Item		Part No.	Description	Qty
10	*b	221721W	Nut	6
11		221780W	Washer	6
12	*b	221725W	Nut	2
13		15128W	Washer	2
14		2310958	Wrench, Torque Extension	1

*a Use 230064W Locktite Kit

*b Use 245231 Thread Lock

Mounting Parts

Caterpillar D6H PS (C480),
D6R PS (C50),
D6R Series II & III PS and D6T (C71)



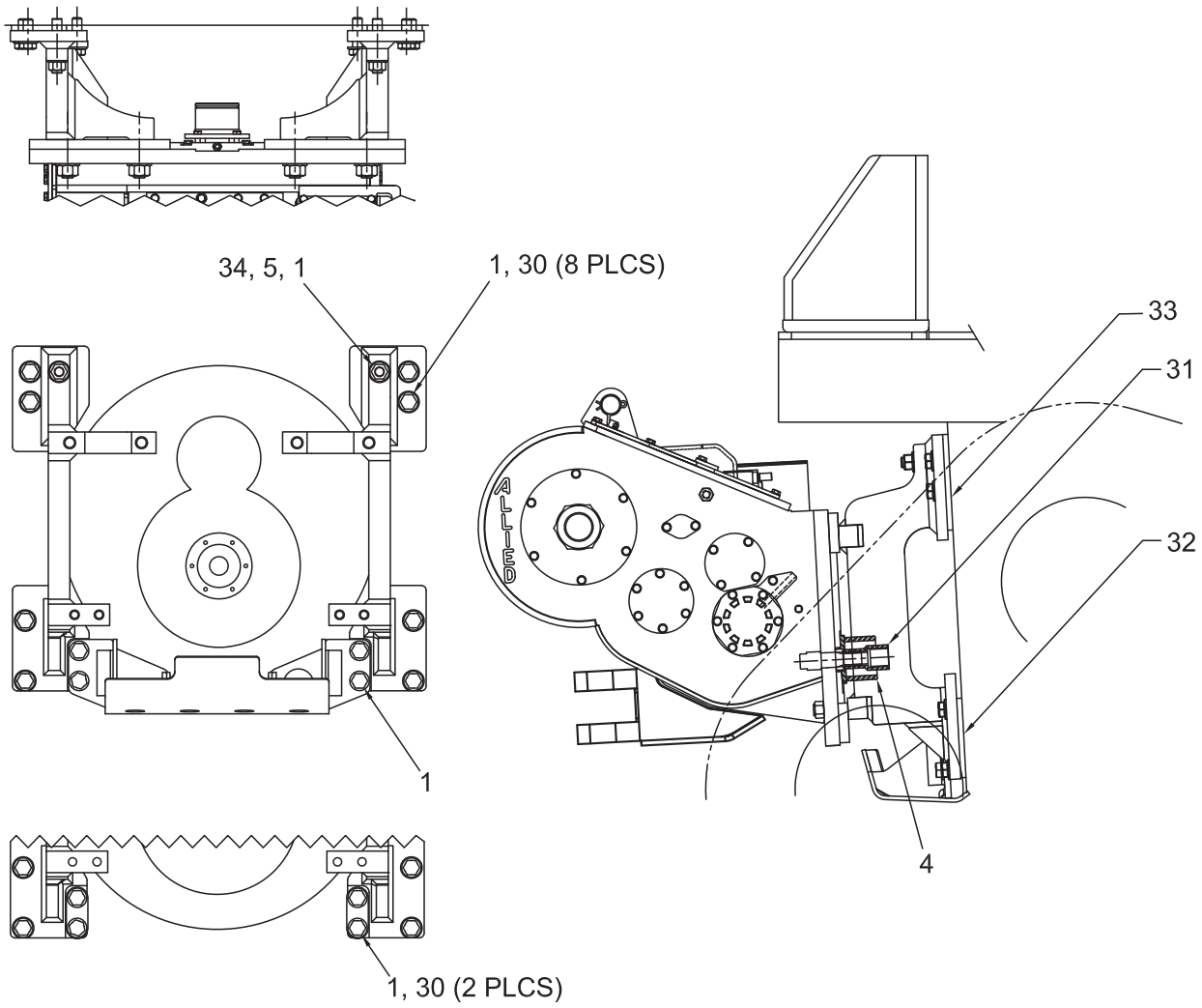
Item		Part No.	Description	Qty
1		221780W	Washer	12
3		129563W	Clamp, Strap (Not Shown)	2
4		15887W	O-Ring	1
5		221721W	Nut	4
20	*a	221690W	Capscrew	8
21		2300709W	Coupling, PTO	1

Item		Part No.	Description	Qty
22	*a	259543W	Stud	2
23	*a	R13801898	Capscrew	4
24		2314824	Plate, Spacer Bracket	2

*a Use 230064W Locktite Kit

Mounting Parts

Caterpillar D6H DD (C481)

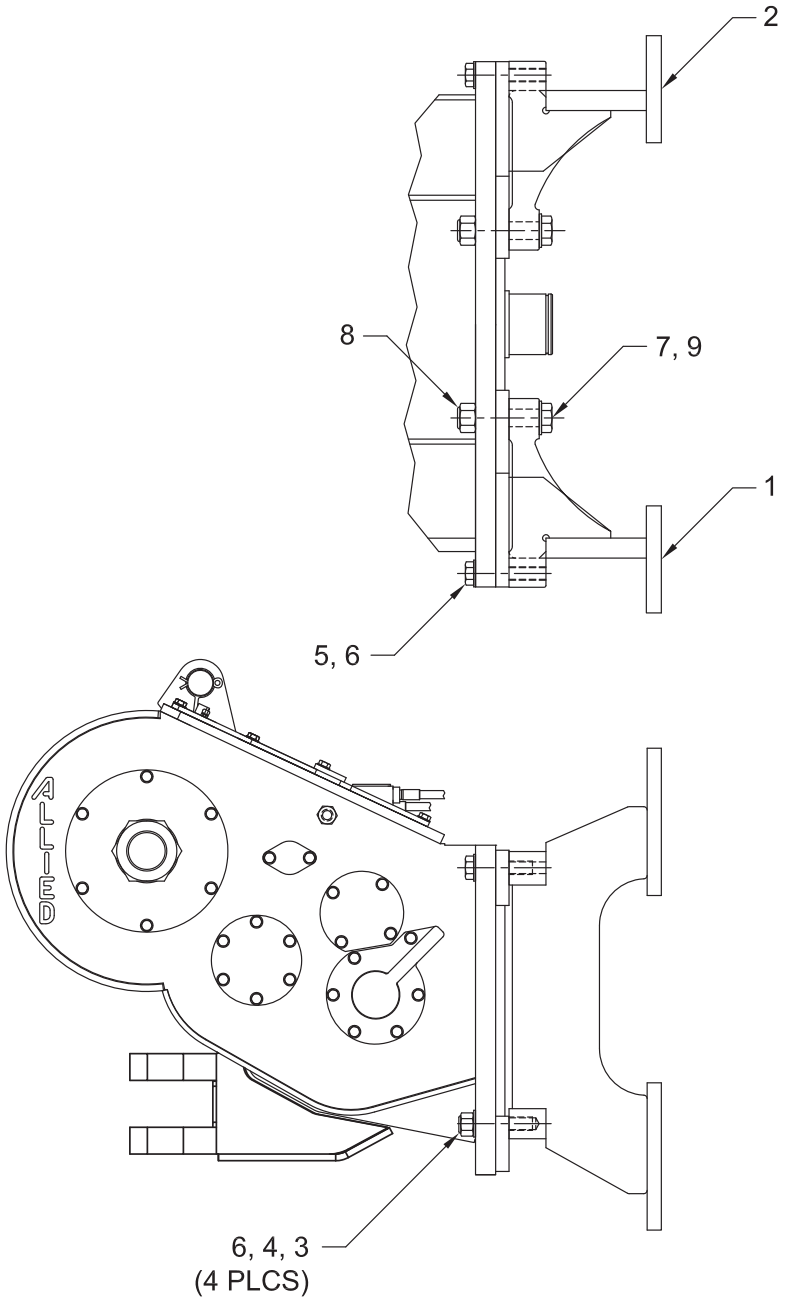


Item		Part No.	Description	Qty
1		221780W	Washer	12
3		129563W	Clamp, Strap (Not Shown)	2
4		15887W	O-Ring	1
5		221721W	Nut	4
30	*a	R13801898	Capscrew	4
31		2301125W	Coupling, PTO	1

Item		Part No.	Description	Qty
32		383170W	Spacer	2
33		2301176W	Spacer	2
34	*a	2301789W	Stud	2
	*a	Use 230064W Locktite Kit		

Mounting Parts

Mounting Bracket Installation
Caterpillar D6H PS (C480), D6H DD (C481);
D6R PS (C50), and D6R Series II & III PS (C71)
Last Used on S/N AW6G-1922

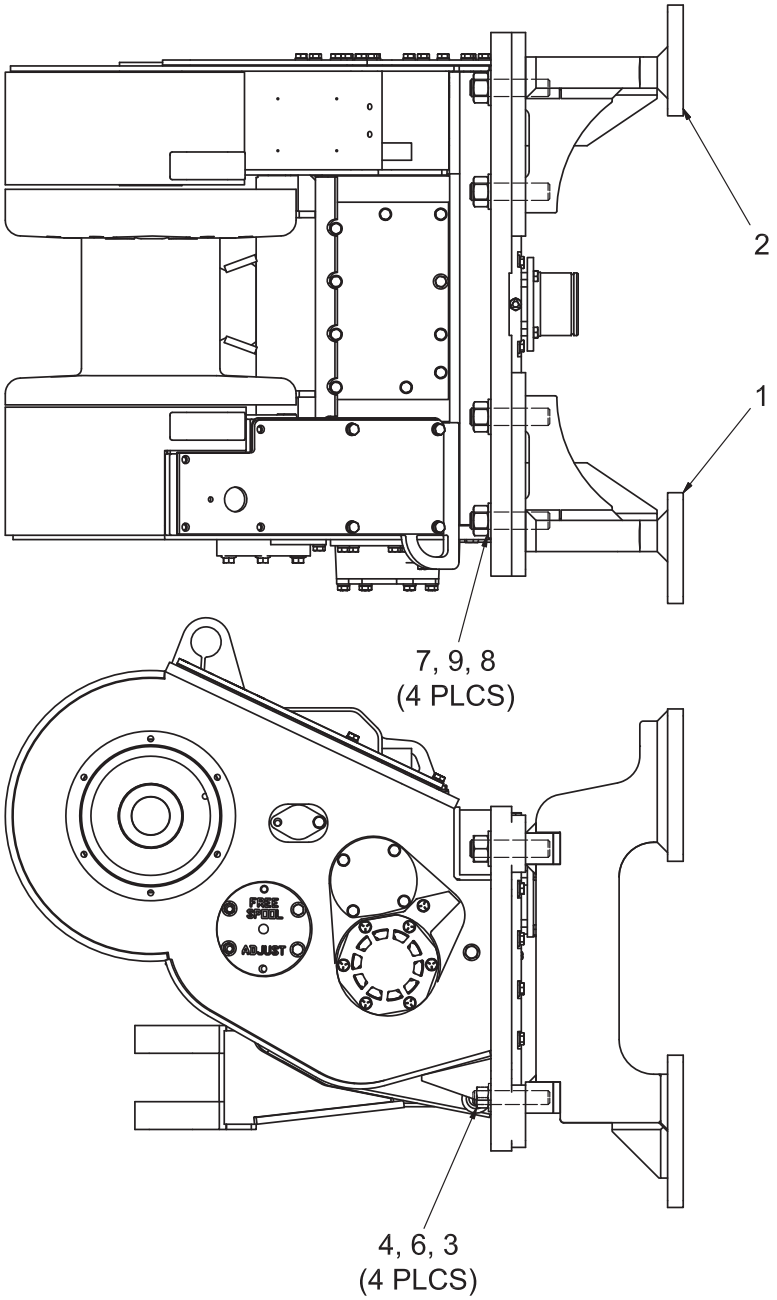


Item		Part No.	Description	Qty
1		2300723W	Bracket, Mounting - RH	1
2		2300724W	Bracket, Mounting - LH	1
3	*a	221721W	Nut	4
4	*b	2301144W	Stud	4
5		Y17C-1664	Capscrew	2
6		221780W	Washer	6
7		2301775W	Capscrew	2
8		221724W	Nut	2
9		15128W	Washer	2

*a Use 264134W Adhesive Sealant
*b Use 383789W Adhesive Sealant

Mounting Parts

Mounting Bracket Installation
Caterpillar D6H PS (C480), D6H DD (C481);
D6R PS (C50), D6R Series II & III PS and D6T (C71)
First Used on S/N AW6G-1923

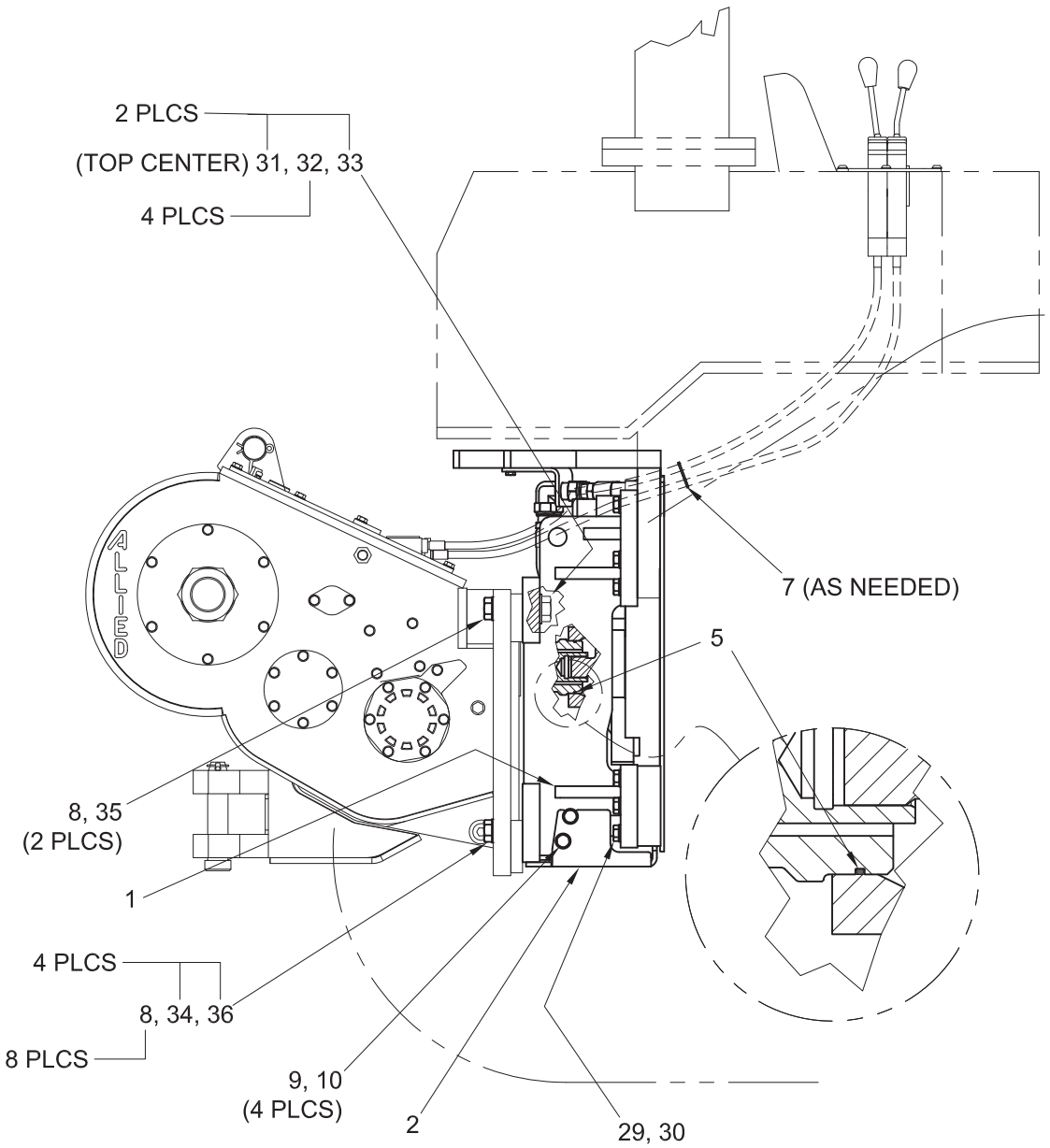


Item		Part No.	Description	Qty
1		2314554	Bracket, Mounting - RH	1
2		2314553	Bracket, Mounting - LH	1
3	*b	221721W	Nut	4
4	*a	2301144W	Stud	4
6		221780W	Washer	4
7	*a	2301140W	Stud	4
8	*b	221725W	Nut	4
9		225851	Washer	4

*a Use 264134W Adhesive Sealant
*b Use 383789W Adhesive Sealant

Mounting Parts

Power Controls (P-Controls)
Caterpillar D6N (C47, C78)



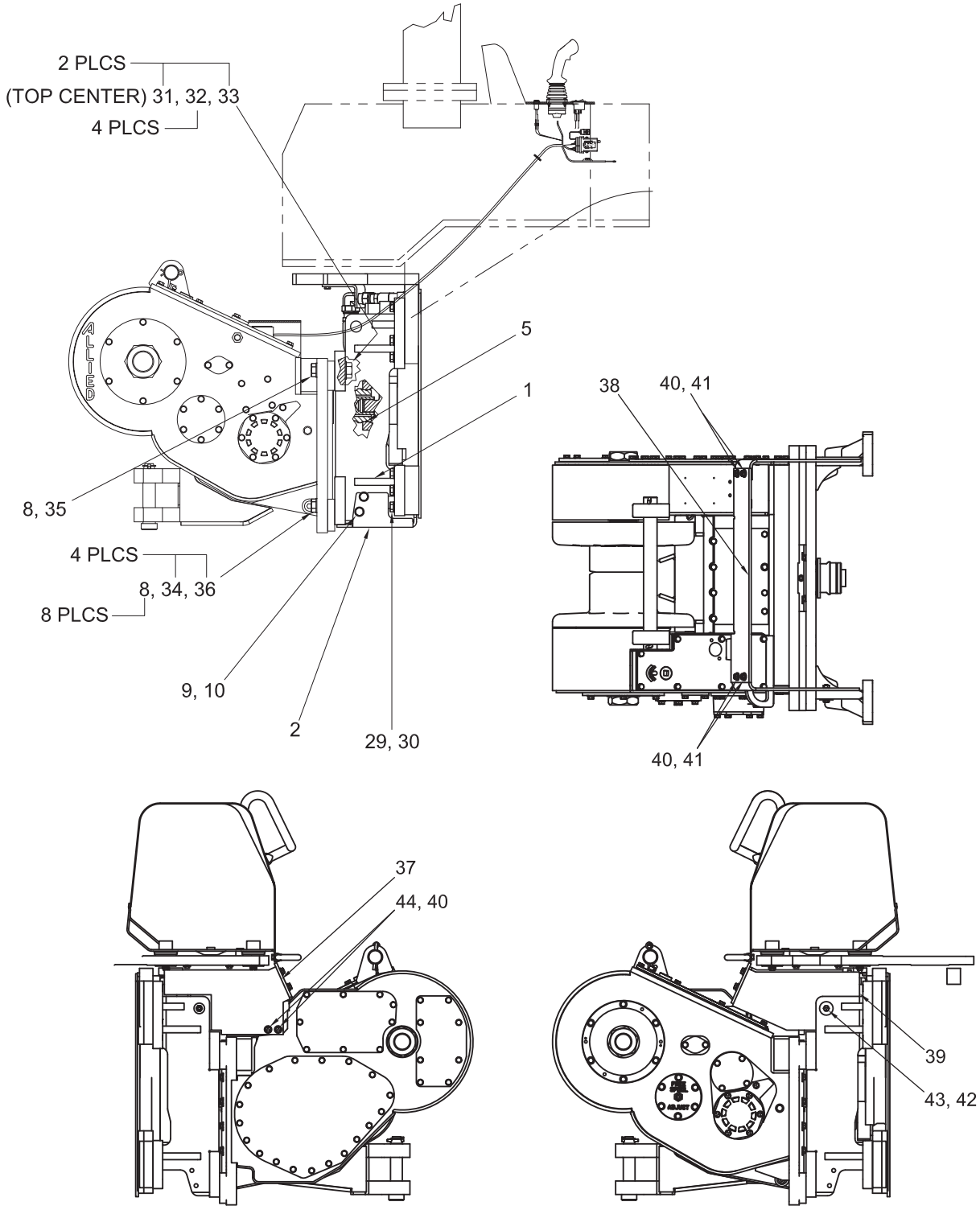
Item		Part No.	Description	Qty
1		2305516W	Bracket, Mounting	1
2		2305541W	Guard, Bottom	1
5		15887W	O-Ring	1
7		137852W	Clamp, Strap	6
8		221780W	Washer	10
9	*a	Y17C-1024	Capscrew	4
10		221775W	Washer	4
29	*a	293710W	Capscrew	16
30		221777W	Washer	16

Item		Part No.	Description	Qty
31	*a	2305619W	Capscrew	2
32		15128W	Washer	4
33		221724W	Nut	2
34	*a	R1381901	Capscrew	4
35	*a	221701W	Capscrew	2
36		221720W	Nut	4

*a Use 318702W Thread Lock

Mounting Parts

Electronic Controls (E-Controls)
Caterpillar D6N (C47, C78)
Page 1 of 2



Mounting Parts

Electronic Controls (E-Controls)
Caterpillar D6N (C47, C78)
Page 2 of 2

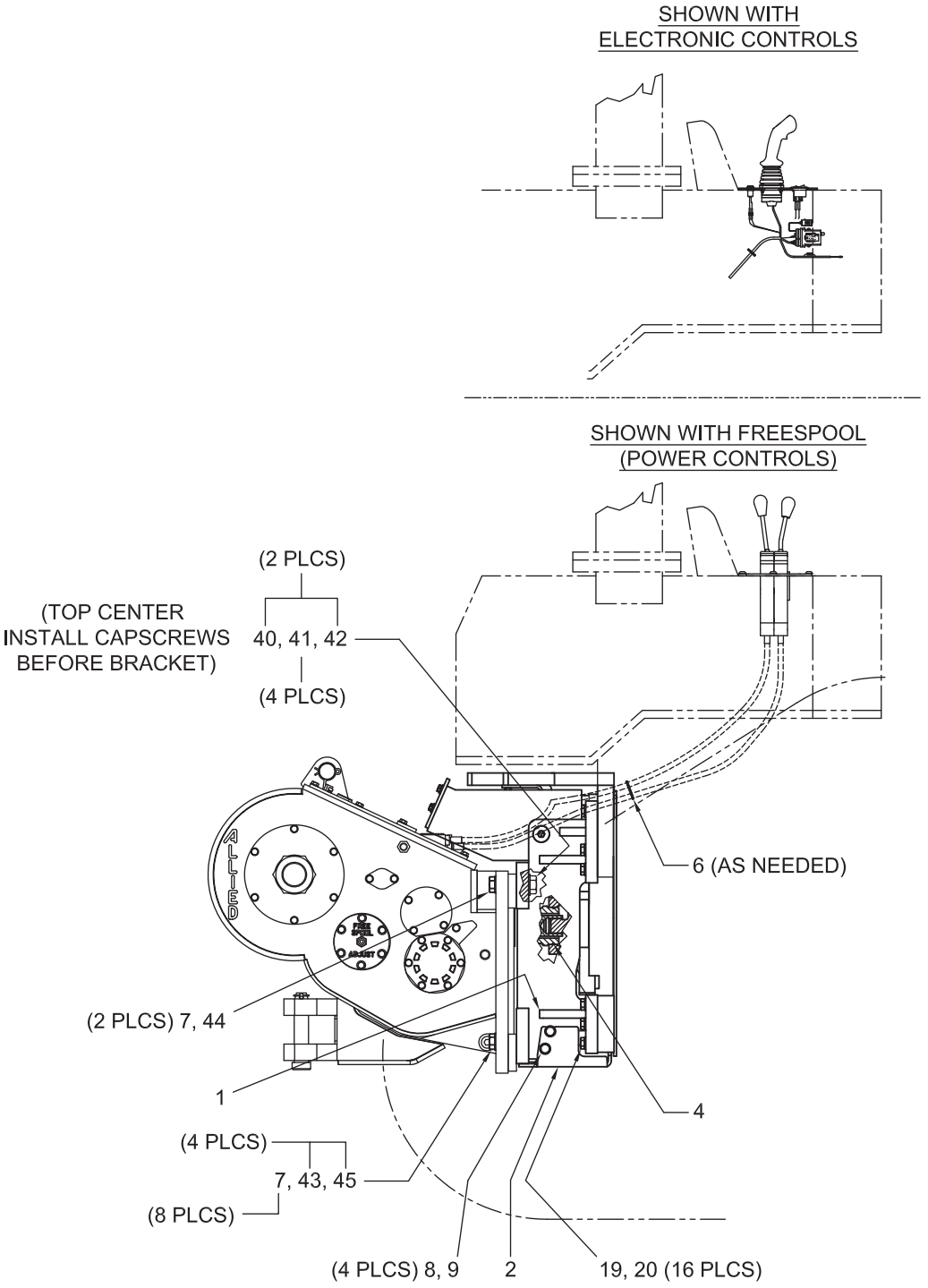
Item		Part No.	Description	Qty
1		2305516W	Bracket, Mounting	1
2		2305541W	Guard, Bottom	1
3		2306315W	Bracket, Filter	1
5		15887W	O-Ring	1
8		221780W	Washer	10
9	*a	Y17C-1024	Capscrew	4
10		221775W	Washer	4
29	*a	293710W	Capscrew	16
30		221777W	Washer	16
31	*a	2305619W	Capscrew	2
32		15128W	Washer	4
33		221724W	Nut	2
34	*a	R1381901	Capscrew	4
35	*a	221701W	Capscrew	2
36		221720W	Nut	4
37		2314302	Guard, LH	1
38		2314235	Plate, Center Guard	1
39		2314237	Guard, RH	1
40		221771W	Washer	6
41		18588W	Capscrew	4
42		2305715W	Washer	1
43		Y01C-0840	Capscrew	1
44		16830W	Capscrew	2

*a Use 318702W Thread Lock

Mounting Parts

Caterpillar D6N (C81)

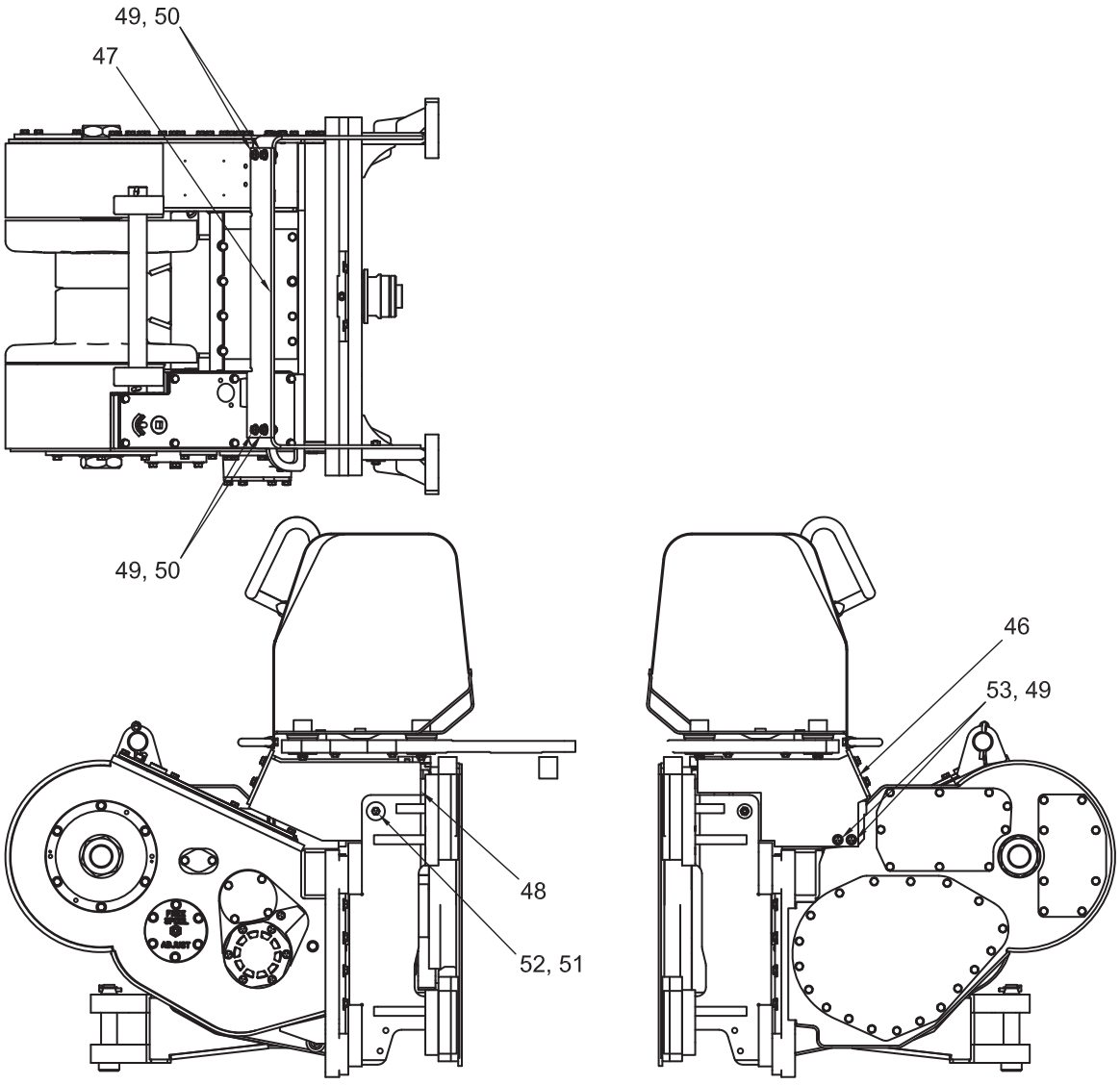
Page 1 of 2



Mounting Parts

Caterpillar D6N (C81)

Page 2 of 2



Item		Part No.	Description	Qty
1		2305516W	Bracket, Mounting	1
2		2305541W	Guard, Bottom	1
4		15887W	O-Ring	1
6		137852W	Clamp, Strap	AR
7		221780W	Washer	10
8	*a	Y17C-1024	Capscrew	4
9		221775W	Washer	4
19	*a	293710W	Capscrew	16
20		221777W	Washer	16
40	*a	2305619W	Capscrew	2
41		15128W	Washer	4
42		221724W	Nut	2
43	*a	R13801901	Capscrew	4

Item		Part No.	Description	Qty
44	*a	221701W	Capscrew	2
45		221720W	Nut	4
46		2314302	Guard, LH	1
47		2314235	Plate, Center Guard	1
48		2314237	Guard, RH	1
49		221771W	Washer	6
50		18588W	Capscrew	4
51		2305715W	Washer	1
52		Y01C-0840	Capscrew	1
53		16830W	Capscrew	2

*a Use 318702W Thread Lock

Mounting Parts

Caterpillar D6N with Diff-Steer (C81)

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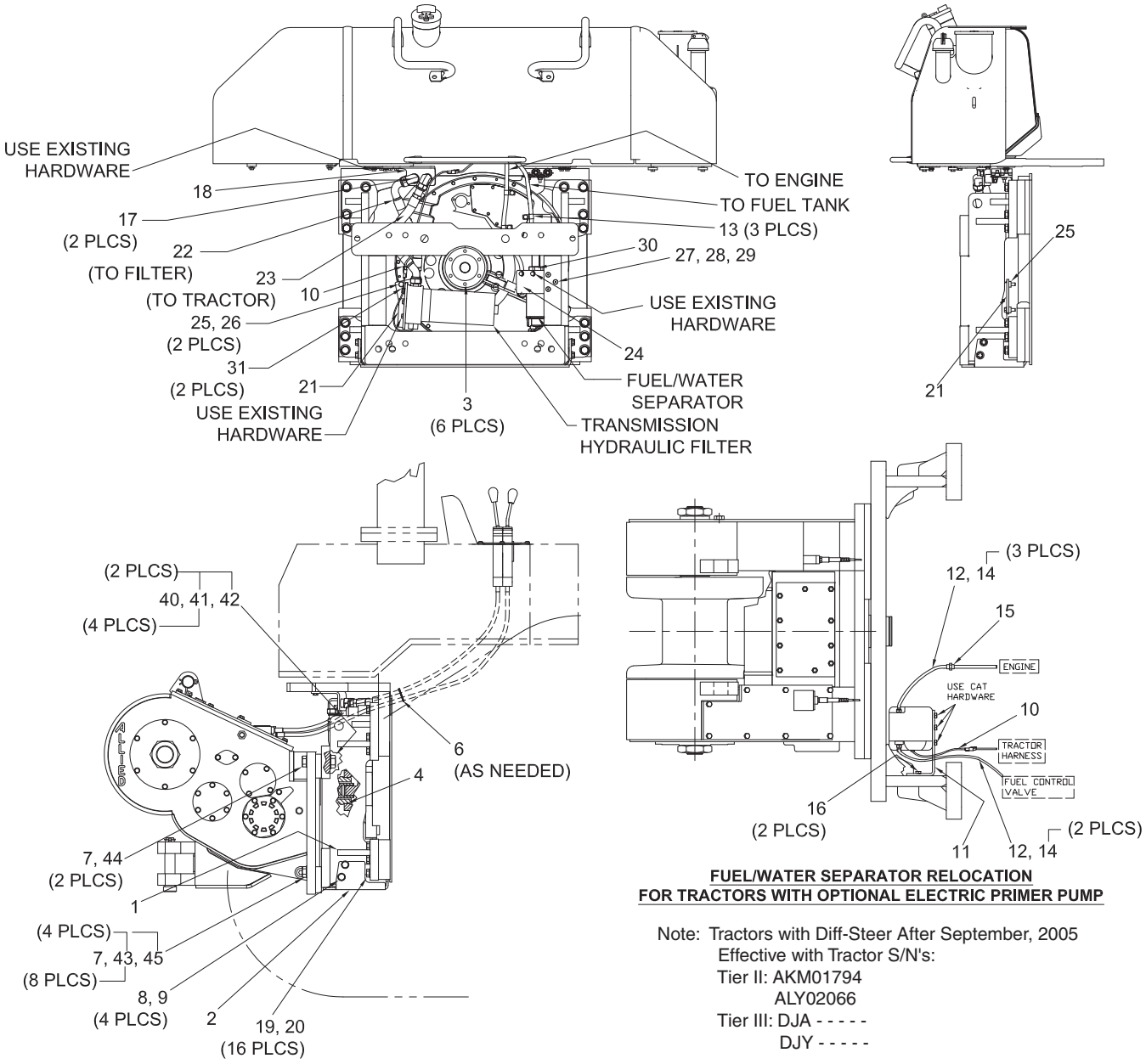


FUEL/WATER SEPARATOR RELOCATION
FOR TRACTORS WITH OPTIONAL ELECTRIC PRIMER PUMP

Note: Tractors with Diff-Steer After September, 2005
Effective with Tractor S/N's:
Tier II: AKM01794
ALY02066
Tier III: DJA - - - - -
DJY - - - - -

Mounting Parts

Caterpillar D6N with Diff-Steer (C81)

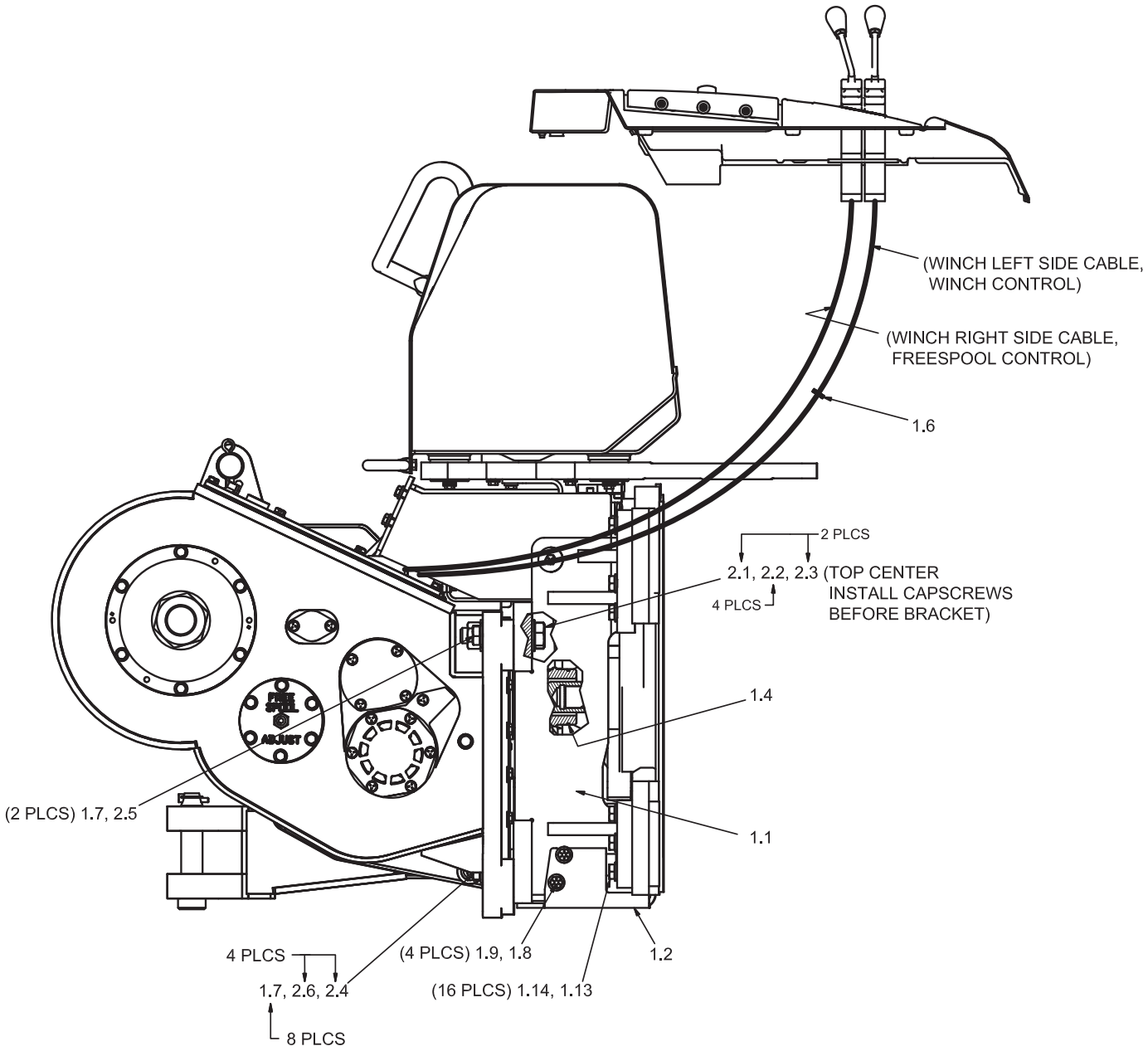
Page 2 of 2

Item		Part No.	Description	Qty
1		2305516W	Bracket, Mounting	1
2		2305541W	Guard, Bottom	1
3		56995W	Plug	6
4		15887W	O-Ring	1
6		137852W	Clamp, Strap	6
7		221780W	Washer	10
8	*a	Y17C-1024	Capscrew	4
9		221775W	Washer	4
10		2305617W	Harness, External Filter	2
11		2306836W	Bracket, Mounting	1
12		2306857W	Hose, Fuel	1
13		387316W	Clamp	3
14		166857W	Clamp	5
15		2306858W	Fitting	1
16		18738W	Capscrew	2
17		2305620W	Fitting	2
18		2305588W	Bracket	1
19	*a	293710W	Capscrew	16
20		221777W	Washer	16
21		2307890W	Bracket, Filter	1
22		2307895W	Assembly, Hose	1
23		2307896W	Assembly, Hose	1
24		2307894W	Plate, Mounting	1
25		2307893W	Spacer	2
26		293647W	Capscrew	2
27		Y09G-0616	Capscrew	3
28		15134W	Washer	3
29		15056W	Nut	3
30		2307911W	Gasket	1
31		243057	Clamp	2
40	*a	2305619W	Capscrew	2
41		15128W	Washer	4
42		221724W	Nut	2
43	*a	R13801901	Capscrew	4
44	*a	221701W	Capscrew	2
45		221720W	Nut	4

*a Use 318702W Thread Lock

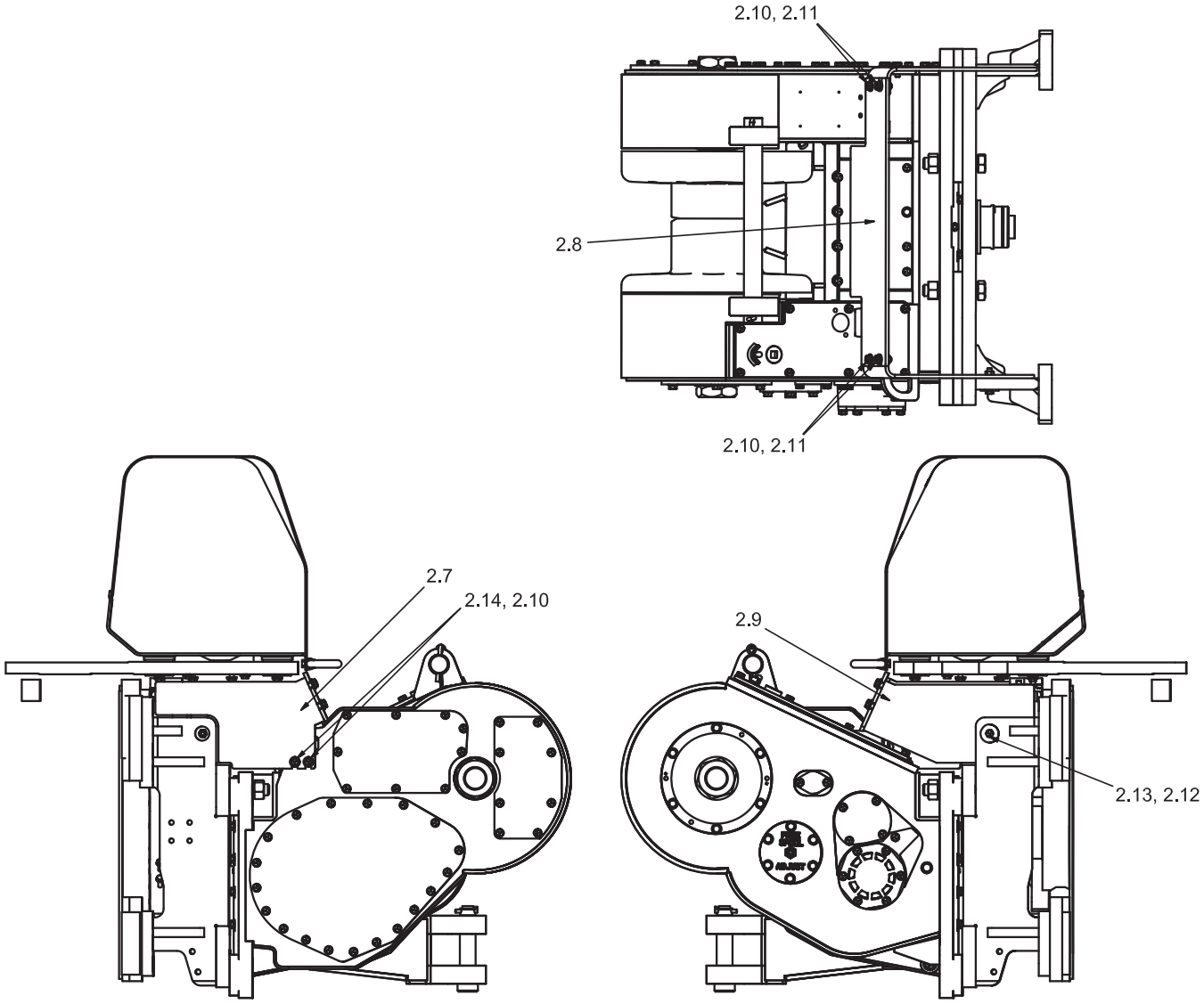
Mounting Parts

Power Controls (P-Controls)
Caterpillar D6N Tier 4i (C810)
S/N PREFIX: PBA & PER
For Tractors with & without Ripper or Dual Contorls
Page 1 of 2



Mounting Parts

Power Controls (P-Controls)
Caterpillar D6N Tier 4i (C810)
S/N PREFIX: PBA & PER
For Tractors with & without Ripper or Dual Contorls
Page 2 of 2



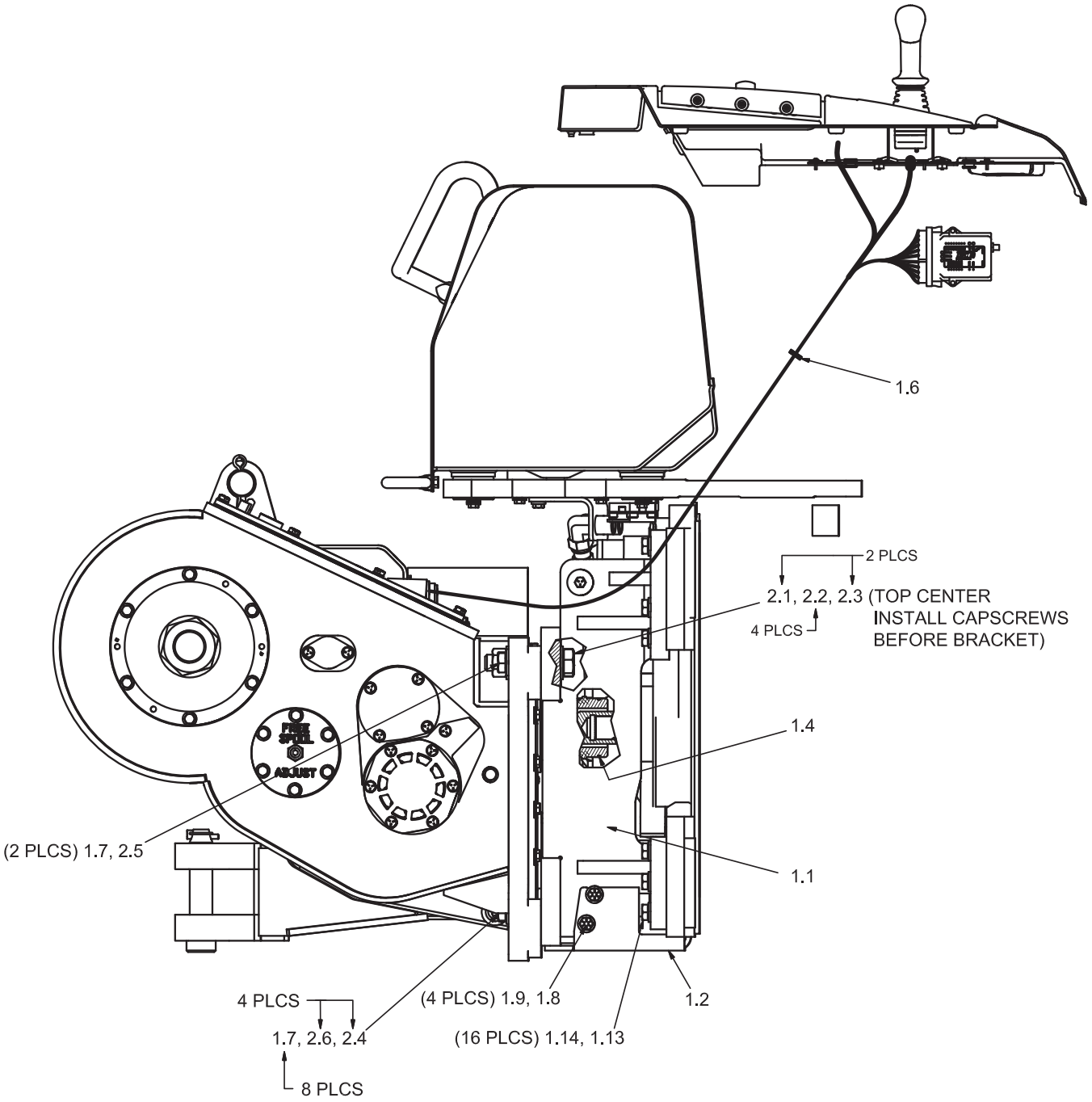
Item		Part No.	Description	Qty
1.1		2305516W	Bracket, Mounting	1
1.2		2305541W	Guard, Bottom	1
1.4		15887W	O-Ring	1
1.6		137852W	Clamp, Strap	6
1.7		221780W	Washer	10
1.8	*a	Y17C-1024	Capscrew	4
1.9		221775W	Washer	4
1.13	*a	293710W	Capscrew	16
1.14		221777W	Washer	16
2.1	*a	2305619W	Capscrew	2
2.2		225851	Washer	4
2.3		221724W	Nut	2
2.4	*a	R13801901	Capscrew	4

Item		Part No.	Description	Qty
2.5	*a	221701W	Capscrew	2
2.6		221720W	Nut	4
2.7		2314302	Guard, LH	1
2.8		2314235	Plate, Guard Center	1
2.9		2314237	Guard, RH	1
2.10		221771W	Washer	6
2.11		18588W	Capscrew	4
2.12		2305715W	Washer	1
2.13		Y01C-0840	Capscrew	1
2.14		16830W	Capscrew	2

*a Use 318702W Thread Lock

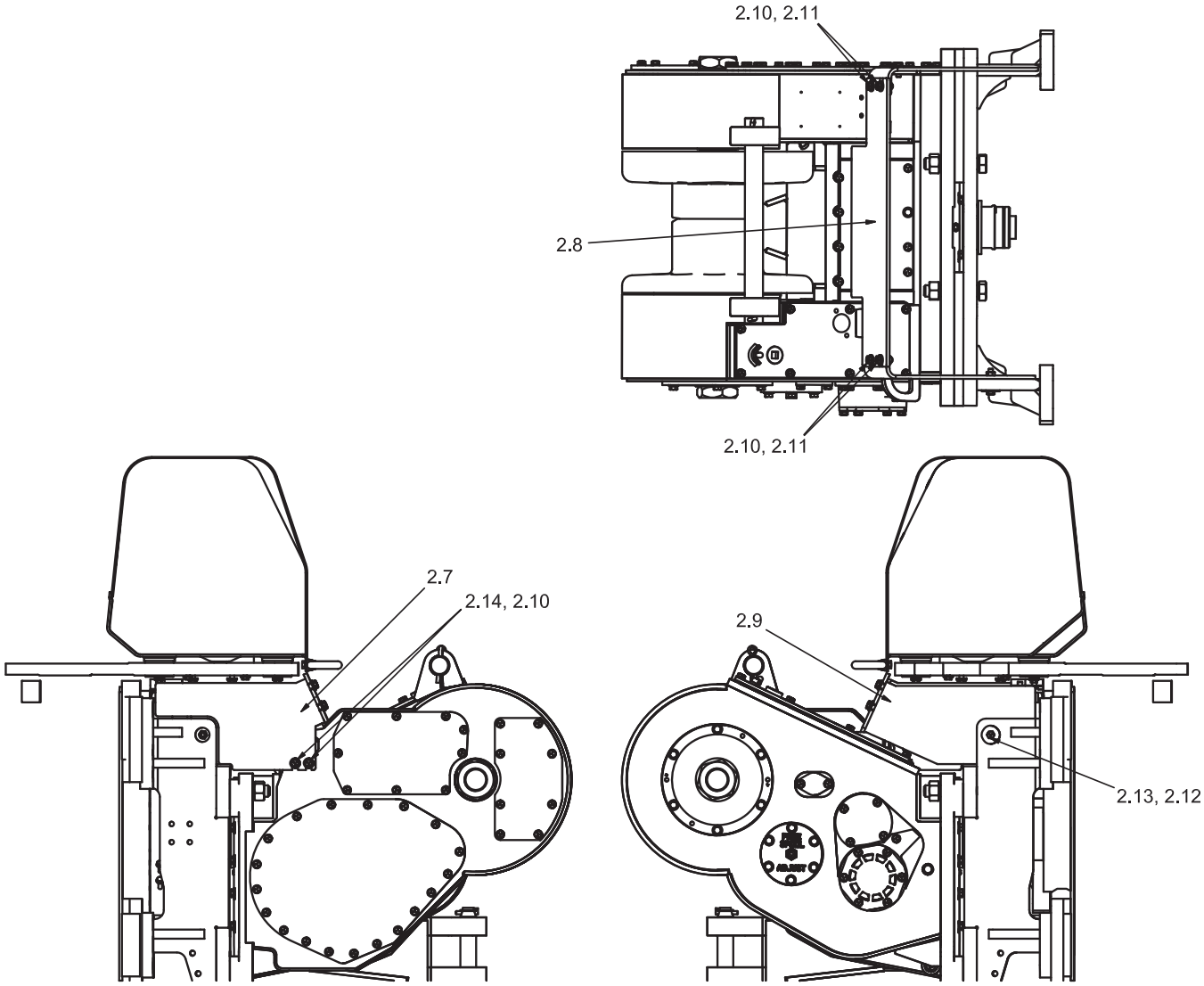
Mounting Parts

Electronic Controls (E-Controls)
Caterpillar D6N Tier 4i (C810)
S/N PREFIX: PBA & PER
For Tractors with & without Ripper or Dual Contorls
Page 1 of 2



Mounting Parts

Electronic Controls (E-Controls)
Caterpillar D6N Tier 4i (C810)
S/N PREFIX: PBA & PER
For Tractors with & without Ripper or Dual Contorls
Page 2 of 2

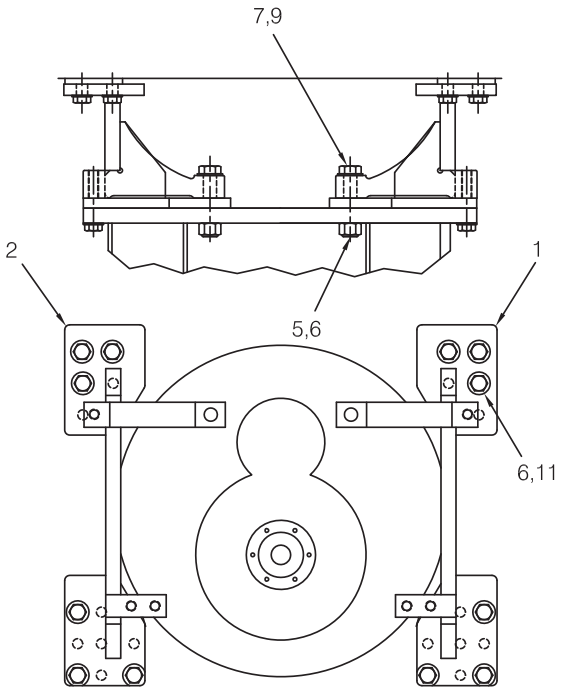


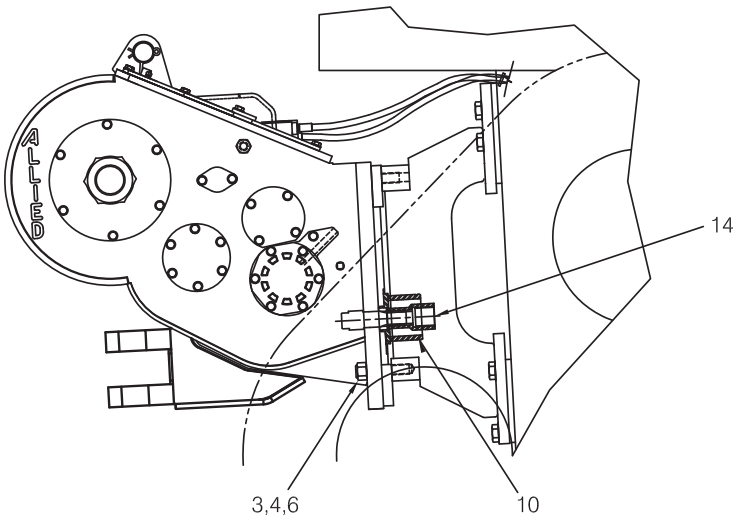
Item		Part No.	Description	Qty
1.1		2305516W	Bracket, Mounting	1
1.2		2305541W	Guard, Bottom	1
1.4		15887W	O-Ring	1
1.6		137852W	Clamp, Strap	6
1.7		221780W	Washer	10
1.8	*a	Y17C-1024	Capscrew	4
1.9		221775W	Washer	4
1.13	*a	293710W	Capscrew	16
1.14		221777W	Washer	16
2.1	*a	2305619W	Capscrew	2
2.2		225851	Washer	4
2.3		221724W	Nut	2
2.4	*a	R13801901	Capscrew	4
2.5	*a	221701W	Capscrew	2
2.6		221720W	Nut	4
2.7		2314302	Guard, LH	1
2.8		2314235	Plate, Guard Center	1
2.9		2314237	Guard, RH	1
2.10		221771W	Washer	6
2.11		18588W	Capscrew	4
2.12		2305715W	Washer	1
2.13		Y01C-0840	Capscrew	1
2.14		16830W	Capscrew	2

*a Use 318702W Thread Lock

Mounting Parts

Caterpillar D6R PS (C50), D6R Series II, III PS (C71)





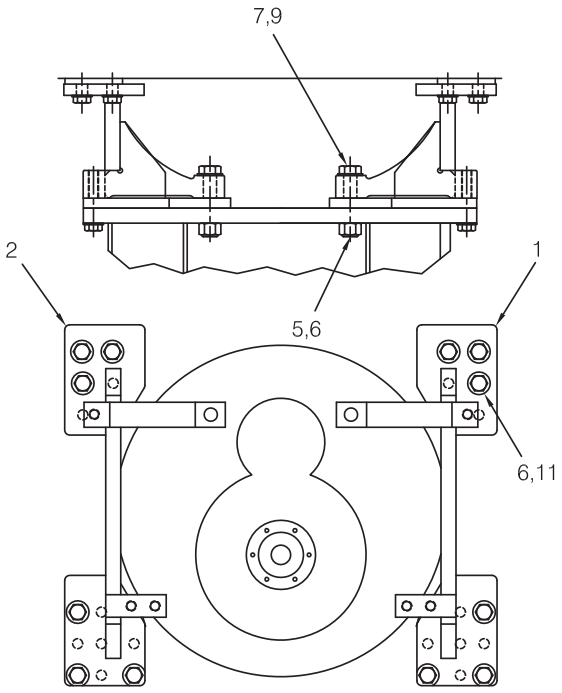
Item		Part No.	Description	Qty
1		2300723W	Bracket, RH	1
2		2300724W	Bracket, LH	1
3	*b	221721W	Nut	4
4	*a	2301144W	Stud	4
5		Y17C-1664	Capscrew	2
6		221780W	Washer	18
7	*a	2301775W	Capscrew	2
8	*b	221724W	Nut	2

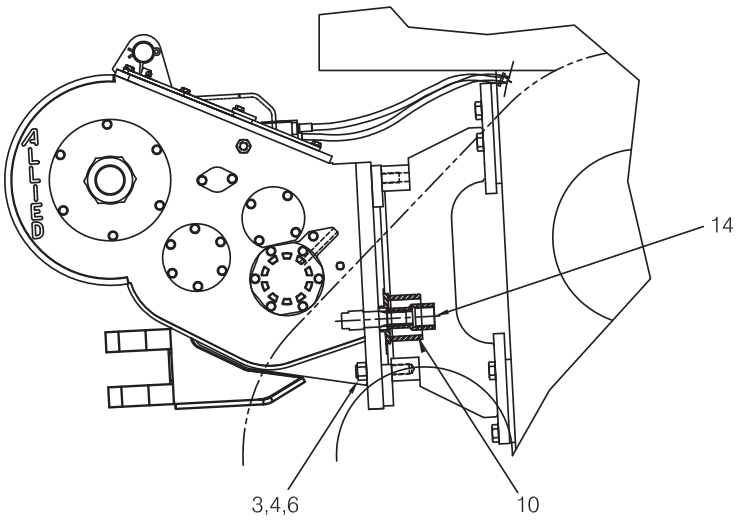
Item	Part No.	Description	Qty
9	15128W	Washer	2
10	15887W	O-Ring	1
11	Y17C-1636	Capscrew	12
14	2300709W	Coupling	1

*a Use 230064W Locktite Kit
*b Use 245231 Thread Lock

Mounting Parts

Caterpillar D6T (C71)





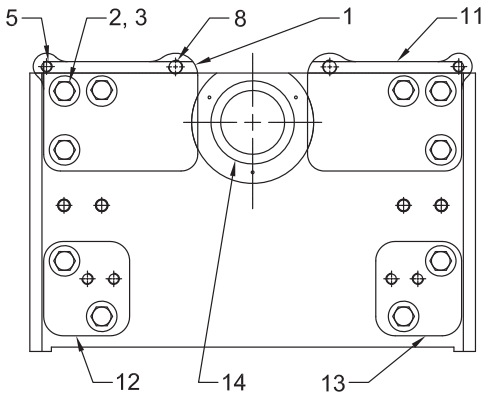
Item		Part No.	Description	Qty
1		2300723W	Bracket, RH	1
2		2300724W	Bracket, LH	1
3	*b	221721W	Nut	4
4	*a	2301144W	Stud	4
5		Y17C-1664	Capscrew	2
6		221780W	Washer	18
7	*a	2301775W	Capscrew	2
8	*b	221724W	Nut	2

Item		Part No.	Description	Qty
9		15128W	Washer	2
10		15887W	O-Ring	1
11		Y17C-1636	Capscrew	12
14		2300709W	Coupling	1

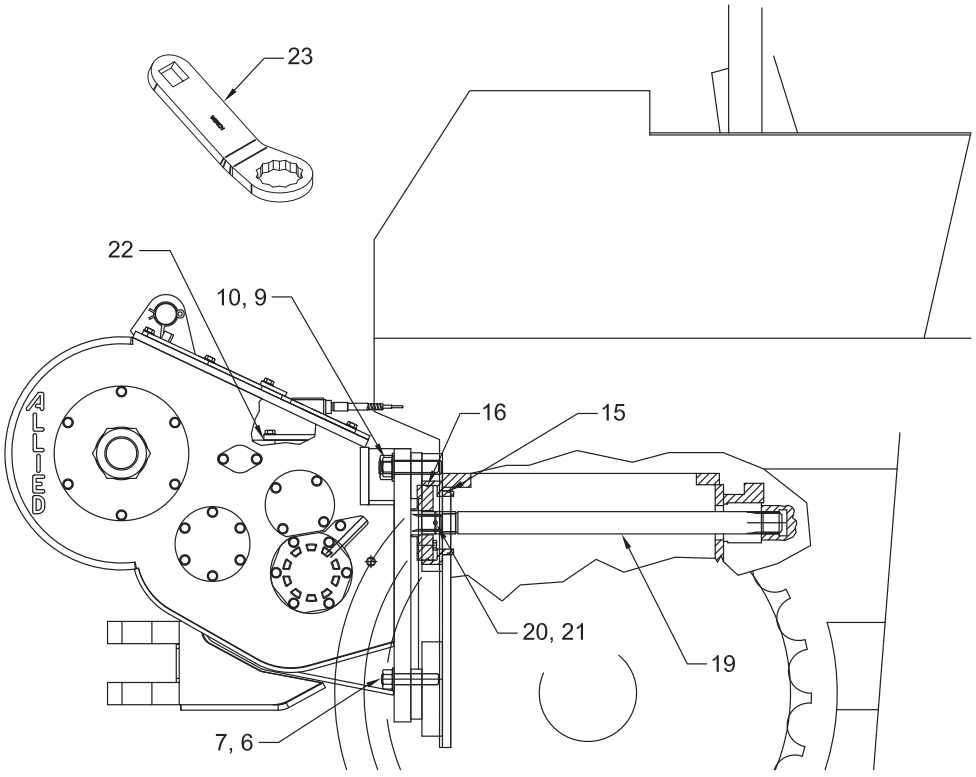
*a Use 230064W Locktite Kit
*b Use 245231 Thread Lock

Mounting Parts

Dresser/Dressta TD15E PS (H44); TD15E DD (H45); TD15H Tier I PS (H46)



TRACTOR REAR FACE



Item		Part No.	Description	Qty
1		2301156W	Plate, Upper Mounting Pad - LH	1
2	*a	2301171W	Capscrew	10
3		15137W	Washer	10
5	*a	253939W	Stud	6
6		221780W	Washer	6
7	*b	221721W	Nut	6
8	*a	216224W	Stud	2
9		15128W	Washer	2
10	*b	221725W	Nut	2
11		2301154W	Plate, Upper Mounting Pad - RH	1
12		2301153W	Plate, Lower Mounting Pad - LH	1
13		2301145W	Plate, Lower Mounting Pad - RH	1
14		2301169W	Pilot, PTO	1

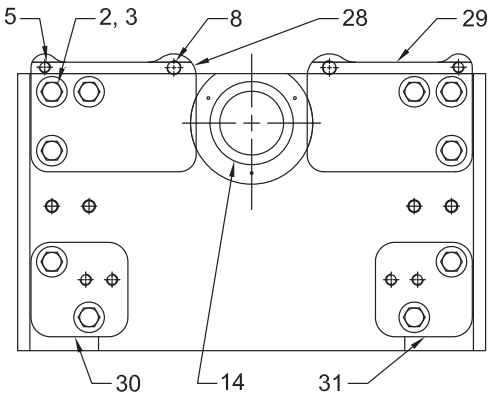
Item	Part No.	Description	Qty
15	15893W	O-Ring	1
16	90937W	O-Ring	1
17	166857W	Clamp, Hose	1
18	318935W	Hose	1
19	2301167W	Shaft	1
20	19928W	Pin	1
21	9554W	Lock, Ring	1
22	2301690W	Gasket	1
23	2310958	Wrench, Torque Extension	1

*a Use 230064W Loctite Kit

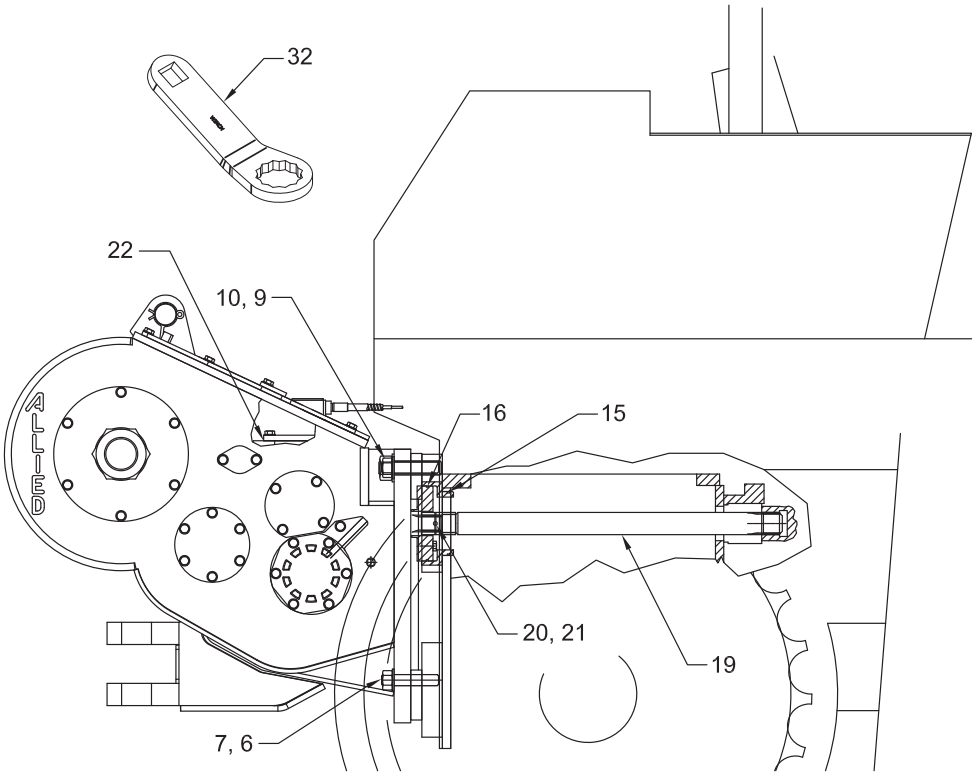
*b Use 245231 Thread Lock

Mounting Parts

Dresser/Dressta TD15H Tier II & TD15M (H47)



TRACTOR REAR FACE



Item		Part No.	Description	Qty
2	*a	2301171W	Capscrew	10
3		15137W	Washer	10
5	*a	253939W	Stud	6
6		221780W	Washer	6
7	*b	221721W	Nut	6
8	*a	216224W	Stud	2
9		15128W	Washer	2
10	*b	221725W	Nut	2
14		2301169W	Pilot, PTO	1
15		15893W	O-Ring	1
16		90937W	O-Ring	1
17		166857W	Clamp, Hose	1
18		318935W	Hose	1

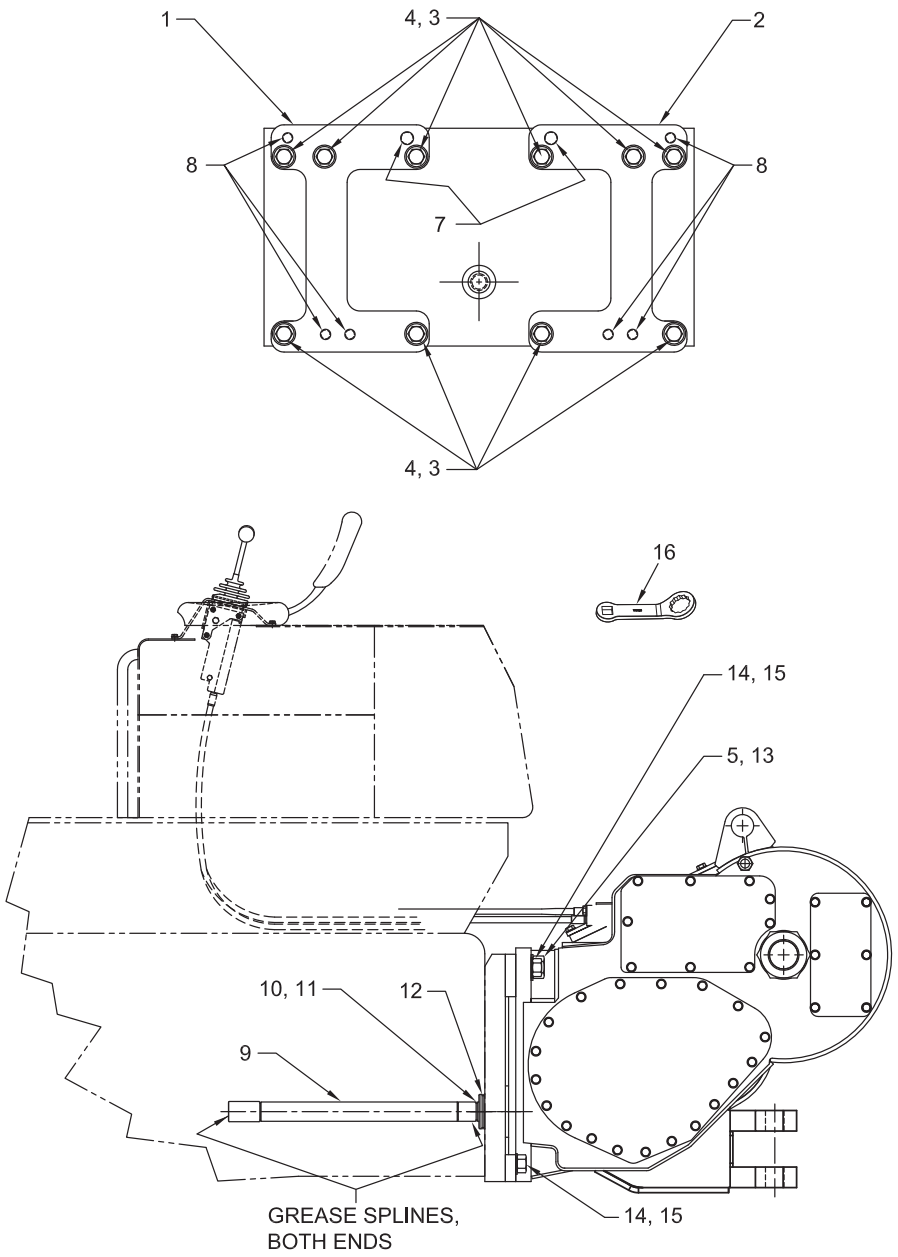
Item	Part No.	Description	Qty
19	2301167W	Shaft	1
20	19928W	Pin	1
21	9554W	Lock, Ring	1
22	2301690W	Gasket	1
28	2307851W	Plate, Upper Mounting Pad - LH	1
29	2307850W	Plate, Upper Mounting Pad - RH	1
30	2307853W	Plate, Lower Mounting Pad - LH	1
31	2307852W	Plate, Lower Mounting Pad - RH	1
32	2310958	Wrench, Torque Extension	1

*a Use 230064W Loctite Kit
*b Use 245231 Thread Lock

Mounting Parts

Fiat-Hitachi/New Holland DC180 (A49)

TRACTOR PREPARATION



Item		Part No.	Description	Qty
1		2301427W	Spacer, LH	1
2		2301428W	Spacer, RH	1
3		2301477W	Capscrew	10
4		296434W	Washer	10
5		221725W	Nut	2
7	*a	2301140W	Stud	2
8	*a	2301144W	Stud	6
9		2304904W	Shaft, PTO	1
10		19928W	Pin	1

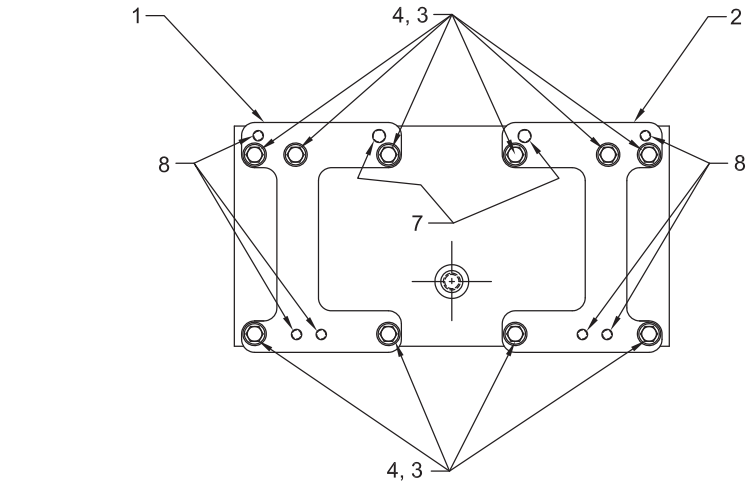
Item		Part No.	Description	Qty
11		9554W	Ring, Lock	1
12		15880W	O-Ring	1
13		15128W	Washer	2
14	*b	221721W	Nut	6
15		221780W	Washer	6
16		2310958	Wrench, Torque Extension	1

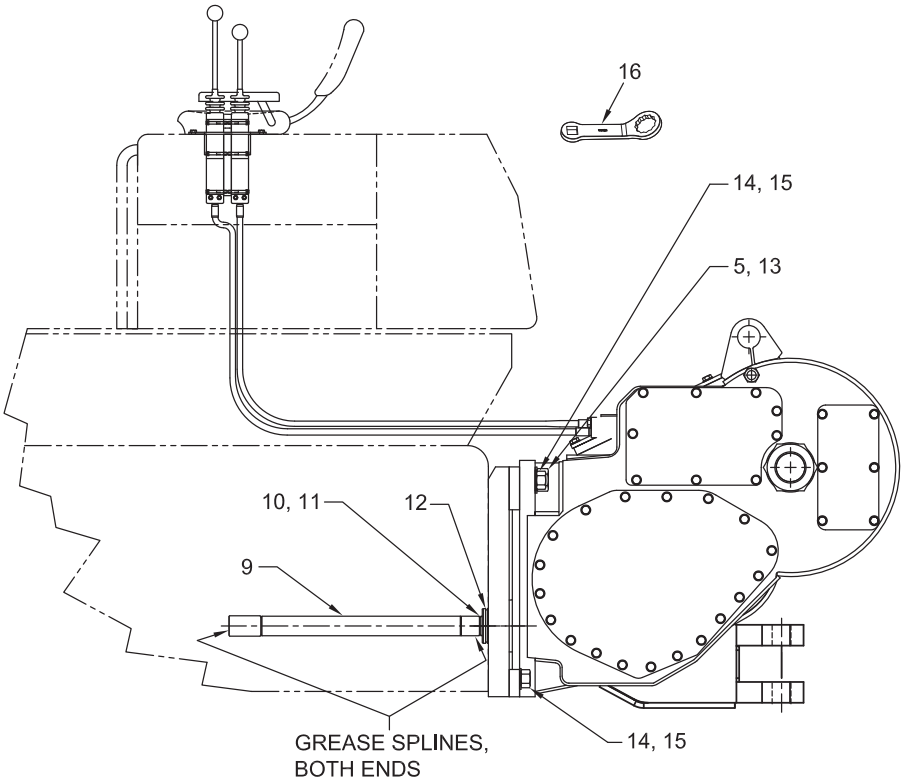
*a Use 230064W Loctite Kit
*b Use 245231 Thread Lock

Mounting Parts

Fiat-Hitachi/New Holland FD14E, DX 175/195, & FD 175/195 (A48)

TRACTOR PREPARATION





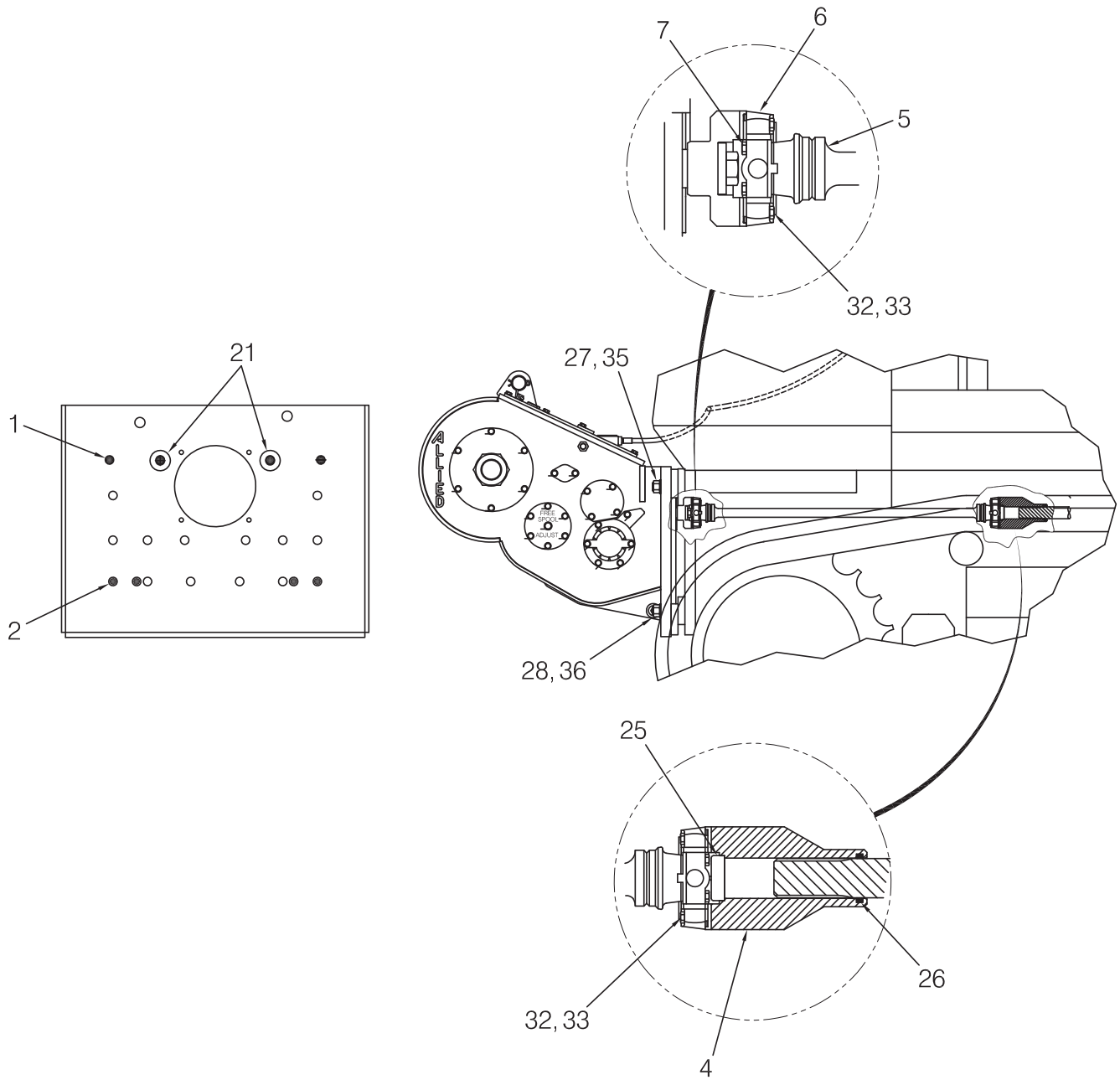
Item		Part No.	Description	Qty
1		2301427W	Spacer, LH	1
2		2301428W	Spacer, RH	1
3		2301477W	Capscrew	10
4		296434W	Washer	10
5		221725W	Nut	2
7	*a	2301140W	Stud	2
8	*a	2301144W	Stud	6
9		2301437W	Shaft, PTO	1
10		19928W	Pin	1

Item		Part No.	Description	Qty
11		9554W	Ring, Lock	1
12		15880W	O-Ring	1
13		15128W	Washer	2
14	*b	221721W	Nut	6
15		221780W	Washer	6
16		2310958	Wrench, Torque Extension	1

*a Use 230064W Loctite Kit
*b Use 245231 Thread Lock

Mounting Parts

John Deere 750B without Cab (E41), 750B with Cab (E44)



Item		Part No.	Description	Qty
1	*a	2301140W	Stud	4
2	*a	2301144W	Stud	4
4		388610W	Coupling	1
5		2300785W	Shaft, Universal	1
6		2300041W	. U-Joint	2
7		221466W	. Capscrew	8
21		223453W	Shim .020	AR
25		225097W	Cup, Dust	1
26		25360	O-Ring	1

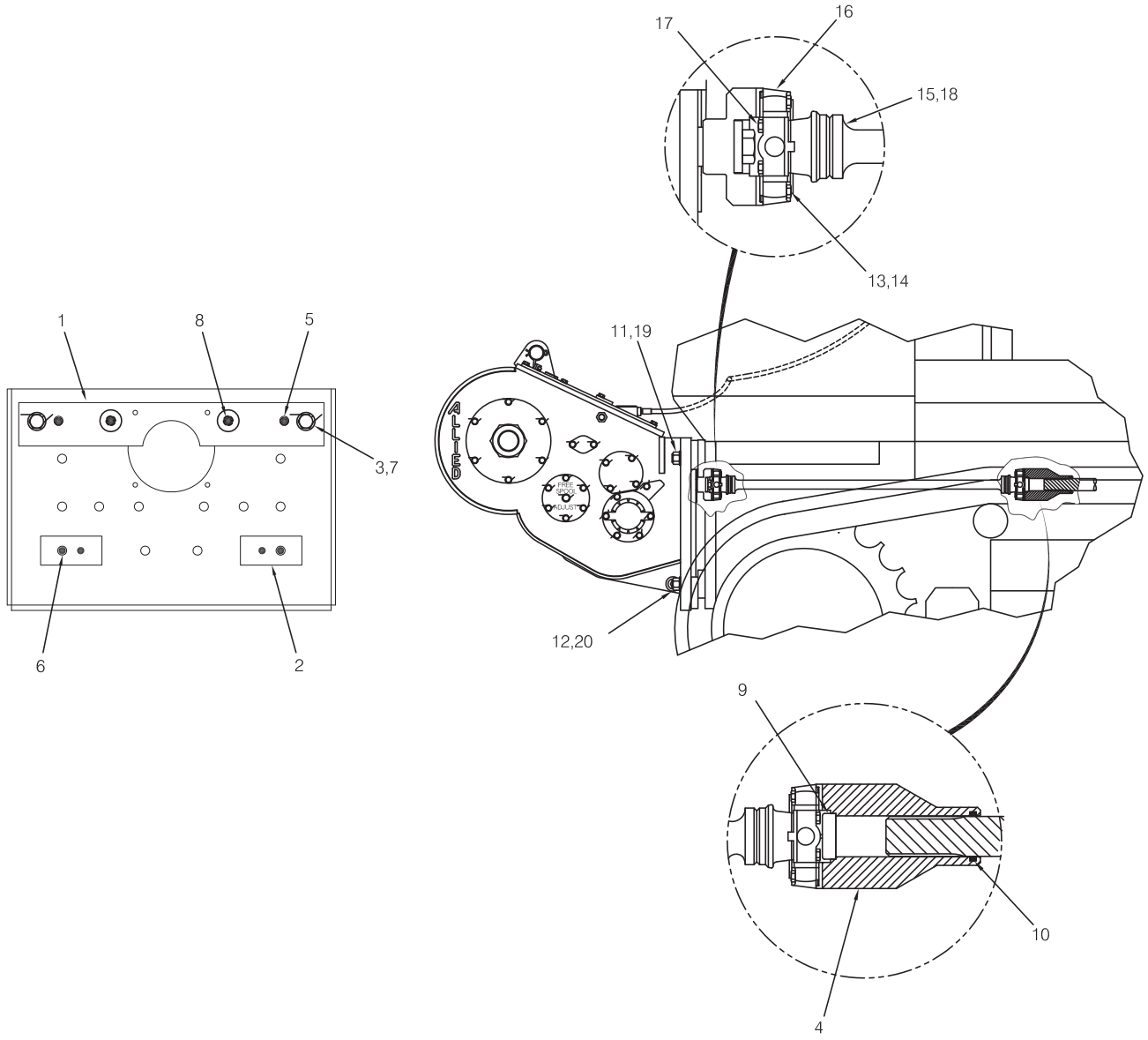
Item		Part No.	Description	Qty
27	*b	221725W	Nut	4
28	*b	221721W	Nut	4
32		388612W	Washer	8
33	*a	388611W	Capscrew	8
35		15128W	Washer	4
36		221780W	Washer	4

*a Use 230064W Loctite Kit

*b Use 245231 Thread Lock

Mounting Parts

John Deere 850B without Cab (E42), 850B with Cab (E43)



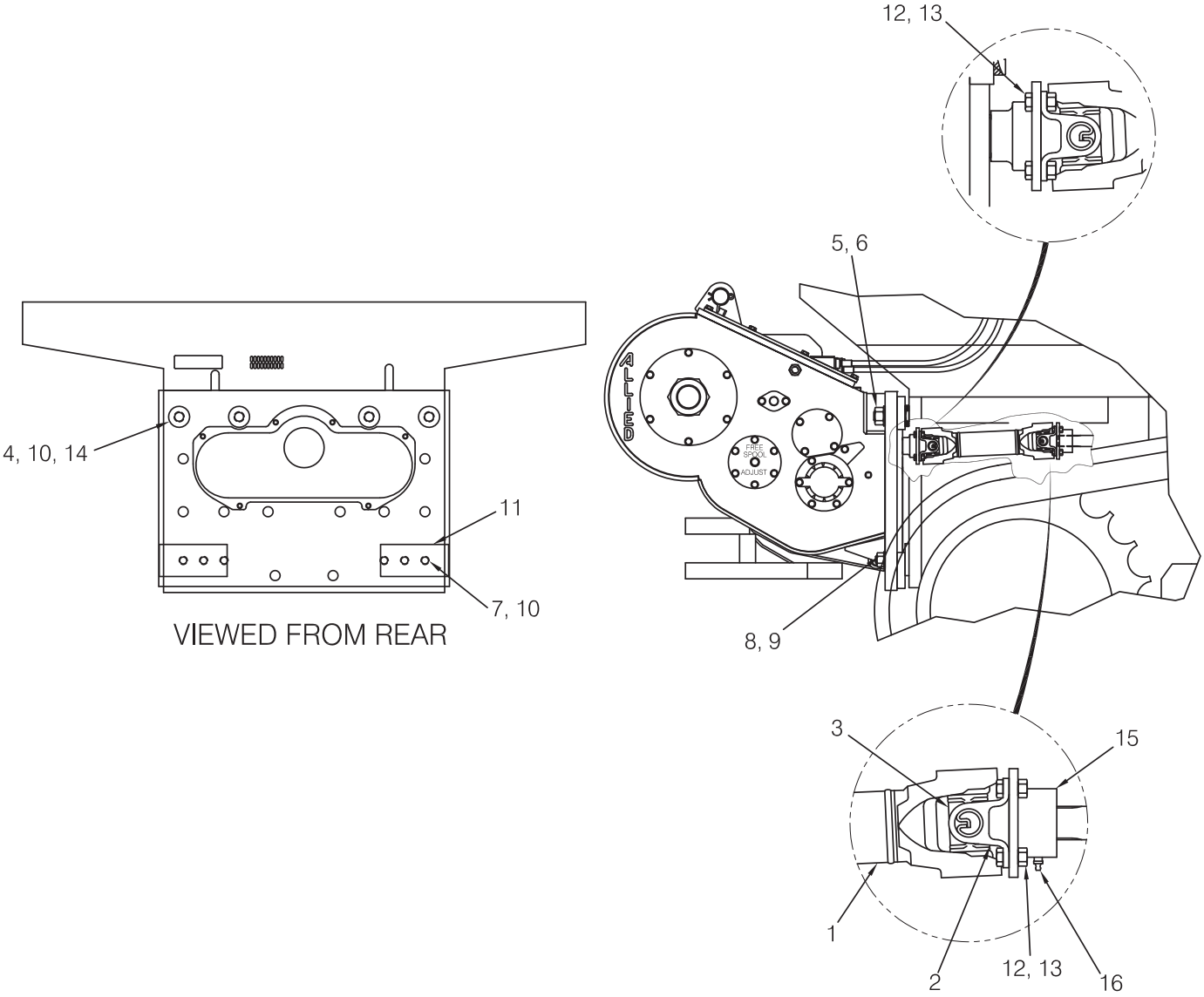
Item		Part No.	Description	Qty
1		321415W	Spacer	1
2		360378W	Bracket	2
3		15128W	Washer	2
4		1310734W	Coupling	1
5	*a	2301143W	Stud	4
6	*a	2301789W	Stud	4
7		248321W	Capscrew	2
8		223453W	Shim	AR
9		225097W	Cap, Dust	1
10		25360	O-Ring	1
11	*b	221725W	Nut	4
12		221721W	Nut	4

Item		Part No.	Description	Qty
13		388612W	Washer	8
14	*b	388611W	Capscrew	8
15		2300785W	Shaft, Universal	1
16		2300041W	. U-Joint	2
17		221466W	. Capscrew	4
18		2300794W	. Shaft	1
19		15128W	Washer	4
20		221780W	Washer	4

*a Use 230064W Loctite Kit
*b Use 245231 Thread Lock

Mounting Parts

John Deere 750C Series I & II (E45)
Last Used S/N AW6G-1043



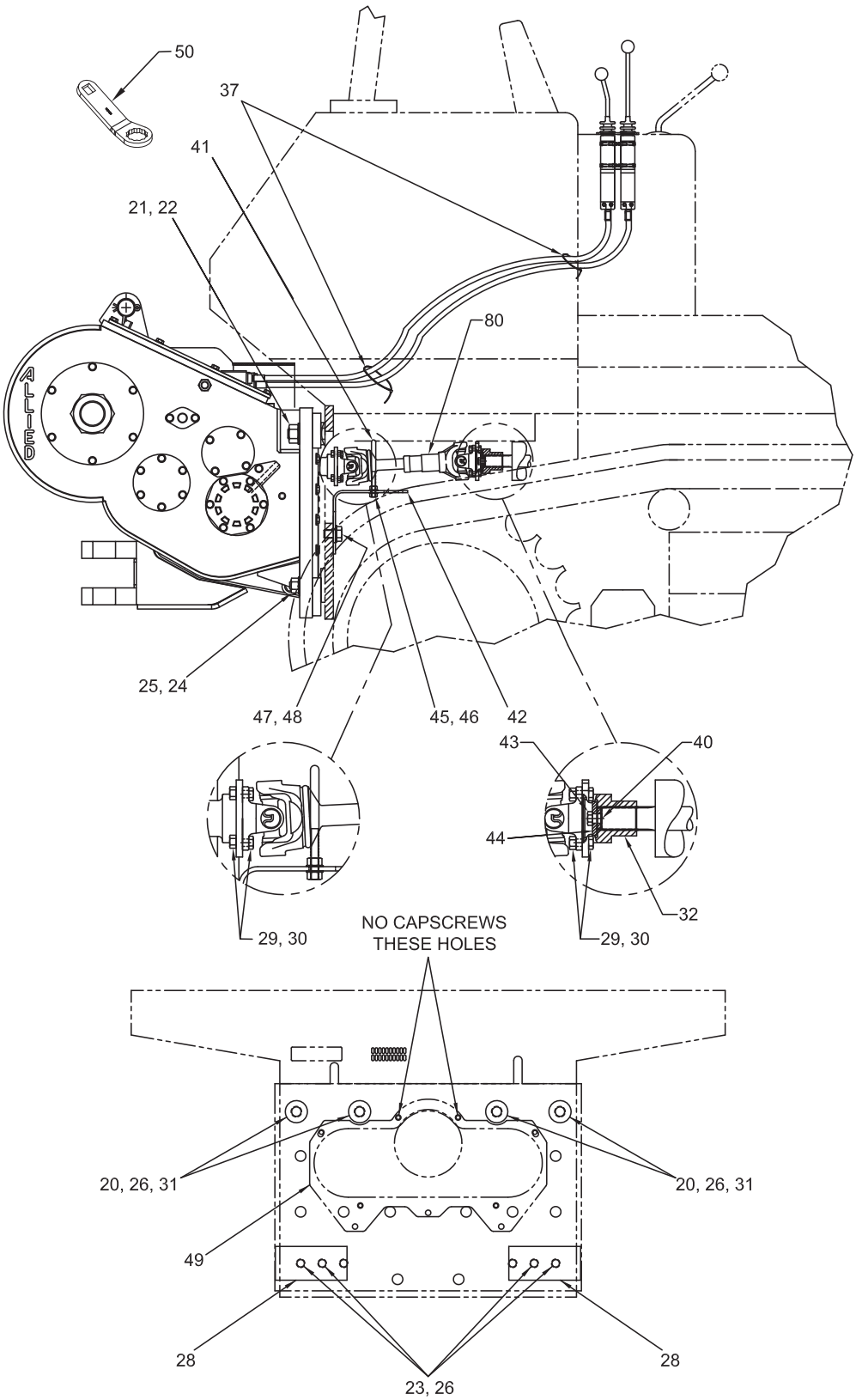
Item		Part No.	Description	Qty
1		2301539W	Driveshaft	1
2		2302799W	. Yoke, Flange	2
3		2302798W	. Kit, Cross & Bearing	2
4	*a	2301785W	Stud	4
5	*b	221725W	Nut	4
6		15128W	Washer	4
7	*a	259543W	Stud	4
8	*b	221721W	Nut	4
9		221780W	Washer	4
10		223453W	Shim .020	AR
11		2301530W	Pad, Mounting	2
12		2301540W	Capscrew	8
13		221710W	Nut	8
14		2301529W	Washer	4
15		2301531W	Flange	1
16		16001W	Fitting, Lube	1

*a Use 230064W Loctite Kit
*b Use 245231 Thread Lock

Intentionally Blank

Mounting Parts

John Deere 750C Series I & II (E45)
First Used S/N AW6G-1044
Page 1 of 2



750C I & II VIEWED FROM REAR

Mounting Parts

John Deere 750C Series I & II (E45)
First Used S/N AW6G-1044
Page 2 of 2

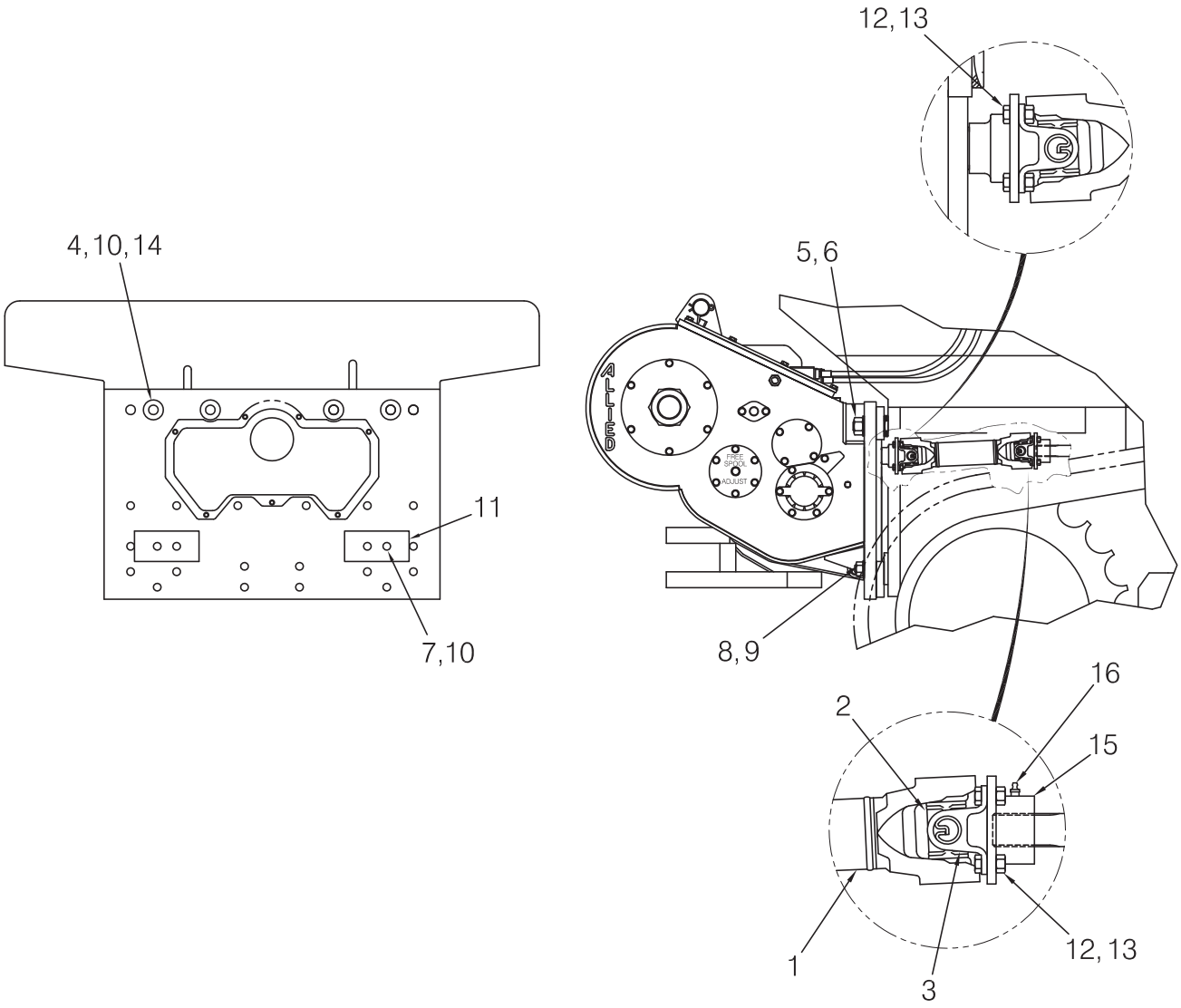
Item		Part No.	Description	Qty
20	*a	2301785W	Stud	4
21	*b	221725W	Nut	4
22		15128W	Washer	4
23	*a	259543W	Stud	4
24	*b	221721W	Nut	4
25		221780W	Washer	4
26		223453W	Shim .020	AR
28		2301530W	Pad, Mounting	2
29		2301540W	Capscrew	8
30		221710W	Nut	8
31		2301529W	Washer	4
32		2303733W	Flange, Tractor End	1
37		129563W	Clamp, Strap	2
40		58916W	Ring, Snap	1
41		2304350W	Assembly, U-Bolt	1
42		2303981W	Guard, Driveline - Winch End	1

Item		Part No.	Description	Qty
43		292527W	Capscrew	1
44	*c	2303737W	Washer	1
	*d	2307311W	Washer	1
45		15135W	Washer	4
46		15158W	Washer	2
47		18662W	Capscrew	2
48		15166W	Washer	2
49		2301850W	Cover, Dust	1
50		2310958	Wrench, Torque Extension	1
80		2303952W	Driveshaft	1

*a Use 318702W Thread Lock
*b Use 230064W Loctite Kit
*c Last Used on S/N AW6G-1597
*d First Used on S/N AW6G-1598

Mounting Parts

John Deere 850C Series I & II (E46)
Last Used S/N AW6G-1043
Page 1 of 2



Mounting Parts

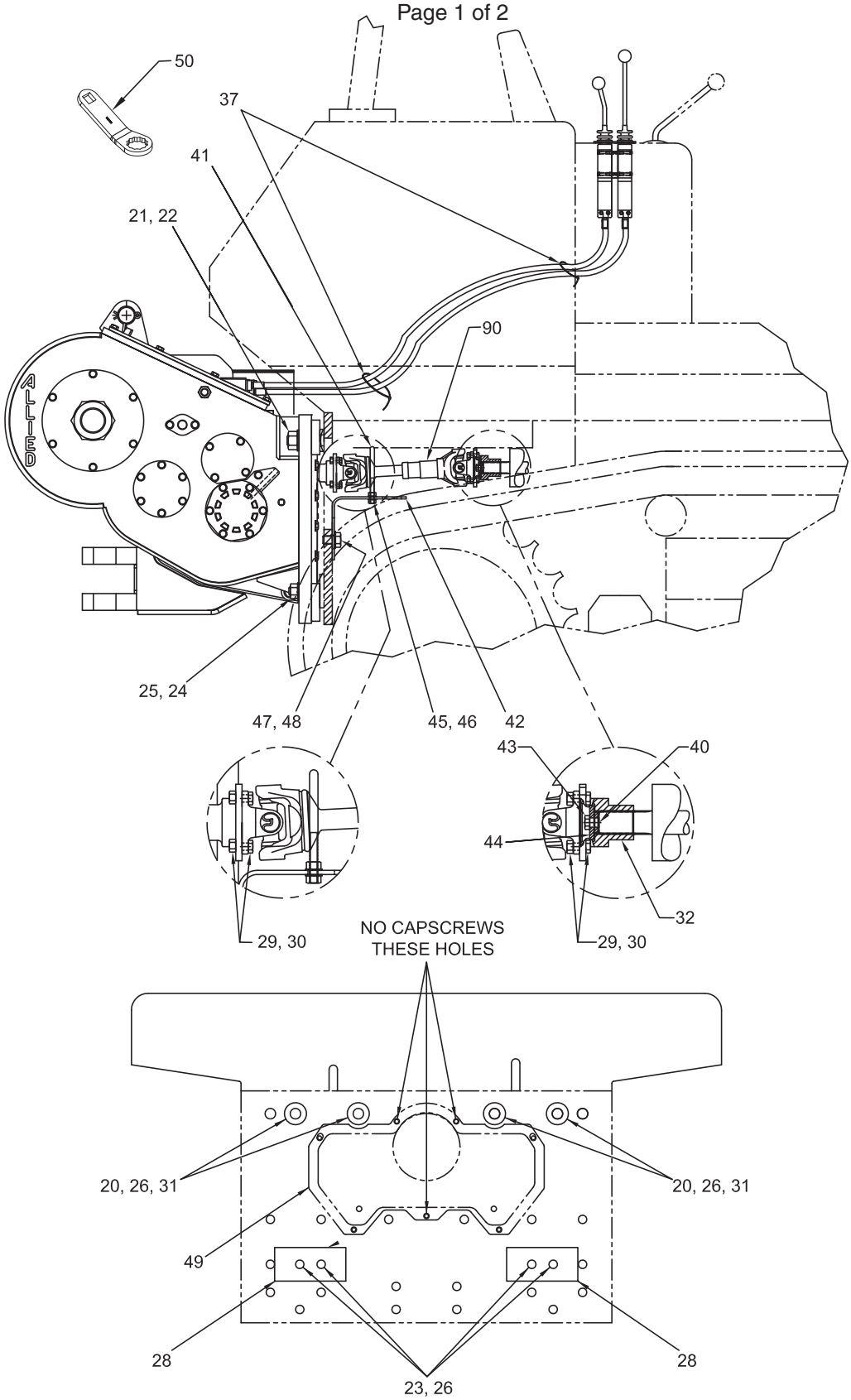
John Deere 850C Series I & II (E46)
Last Used S/N AW6G-1043
Page 1 of 2

Item		Part No.	Description	Qty
1		2301532W	Shaft, Drive	1
2		2302790W	. Kit, Cross & Bearing	2
3		2302791W	. Yoke, Flange	2
4	*a	2301785W	Stud	4
5	*b	221725W	Nut	4
6		15128W	Washer	4
7	*a	259543W	Stud	4
8	*b	221721W	Nut	4
9		221780W	Washer	4
10		223453W	Shim .020	AR
11		2301530W	Pad, Mounting	2
12		2301540W	Capscrew	8
13		2301541W	Nut	8
14		2301529W	Washer	4
15		2301531W	Flange	1
16		16001W	Fitting, Lube	1

*a Use 230064W Loctite Kit
*b Use 245231 Thread Lock

Mounting Parts

John Deere 850C Series I & II (E46)
First Used S/N AW6G-1044
Page 1 of 2



850C I & II VIEWED FROM REAR

Mounting Parts

John Deere 850C Series I & II (E46)
First Used S/N AW6G-1044
Page 2 of 2

Item		Part No.	Description	Qty
20	*a	2301785W	Stud	4
21	*b	221725W	Nut	4
22		15128W	Washer	4
23	*a	259543W	Stud	4
24	*b	221721W	Nut	4
25		221780W	Washer	4
26		223453W	Shim .020	AR
28		2301530W	Pad, Mounting	2
29		2301540W	Capscrew	8
30		221710W	Nut	8
31		2301529W	Washer	4
32		2303733W	Flange, Tractor End	1
37		129563W	Clamp, Strap	2
40		58916W	Ring, Snap	1
41		2304350W	Assembly, U-Bolt	1
42		2303981W	Guard, Driveline - Winch End	1

Item		Part No.	Description	Qty
43		292527W	Capscrew	1
44	*c	2303737W	Washer	1
	*d	2307311W	Washer	1
45		15135W	Washer	4
46		15158W	Washer	2
47		18662W	Capscrew	2
48		15166W	Washer	2
49		2301850W	Cover, Dust	1
50		2310958	Wrench, Torque Extension	1
90		2305346W	Driveshaft	1

*a Use 318702W Thread Lock
*b Use 230064W Loctite Kit
*c Last Used on S/N AW6G-1597
*d First Used on S/N AW6G-1598

Mounting Parts

John Deere 850K (E460)

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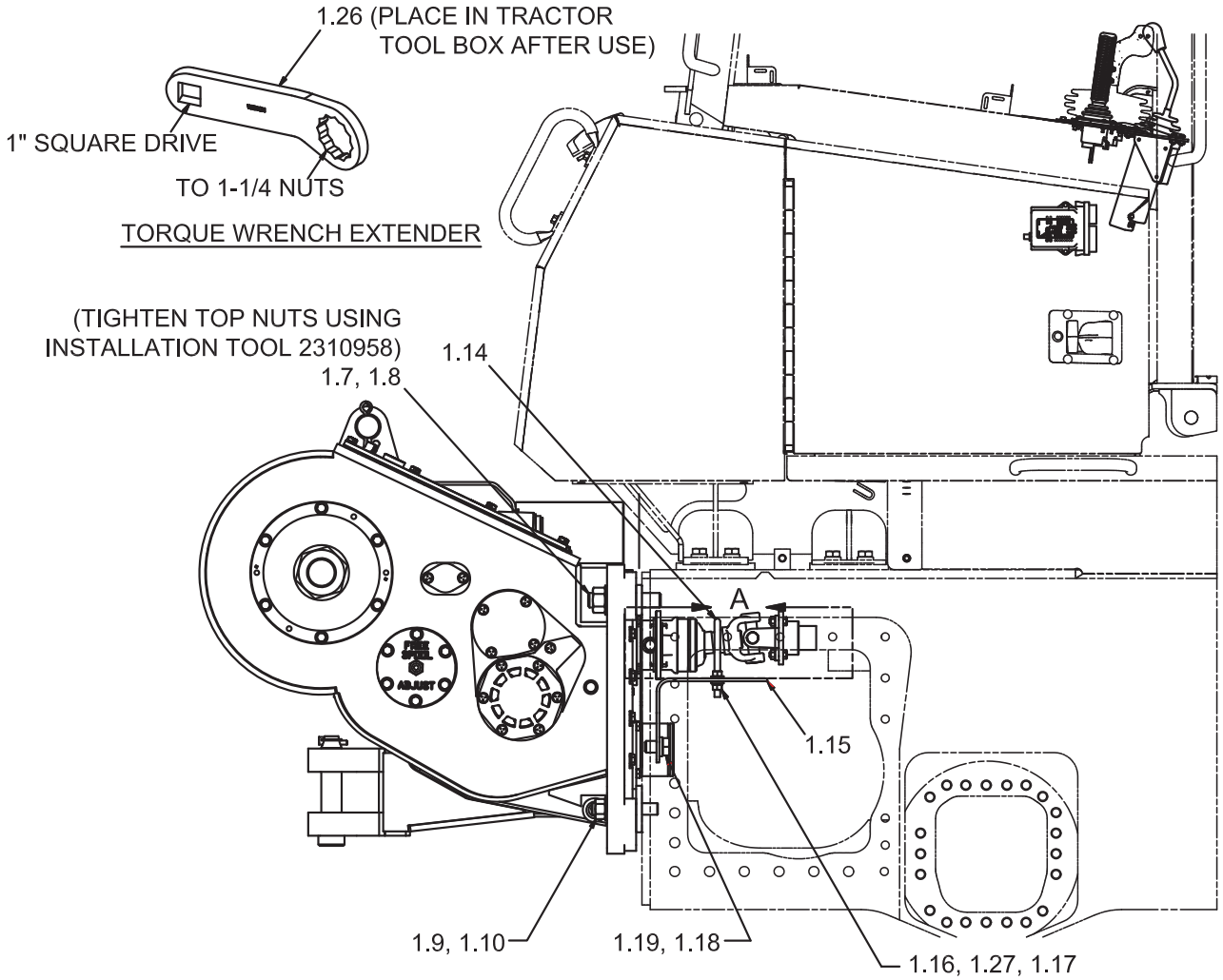
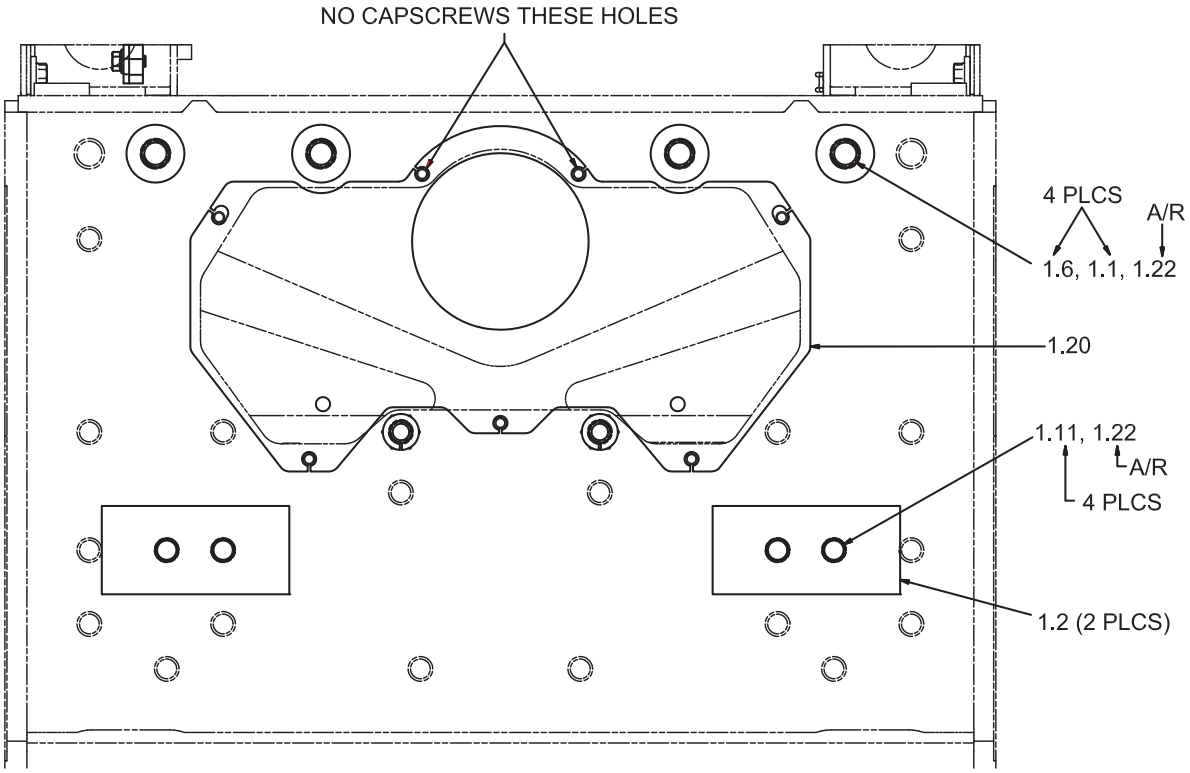


DETAIL A

DRIVESHAFT INSTALLATION

Mounting Parts

John Deere 850K (E460)



WINCH MOUNTING PARTS
REAR VIEW

Item		Part No.	Description	Qty
1.1		2301529W	Washer, Spherical	4
1.2		2301530W	Pad, Mounting	2
1.3		2303733W	Flange, Tractor End	1
1.4		292527W	Capscrew	1
1.5		2301540W	Capscrew	8
1.6	*a	2301785W	Stud	4
1.7		15128W	Washer	4
1.8	*b	221725W	Nut	4
1.9		221780W	Washer	4
1.10	*b	221721W	Nut	4
1.11	*a	259543W	Stud	4
1.12		221710W	Nut	8
1.13		58916W	Ring, Snap	1
1.14		2304350W-1	Assembly, U-Bolt	1
1.15		2303981W	Guard, Driveline	1

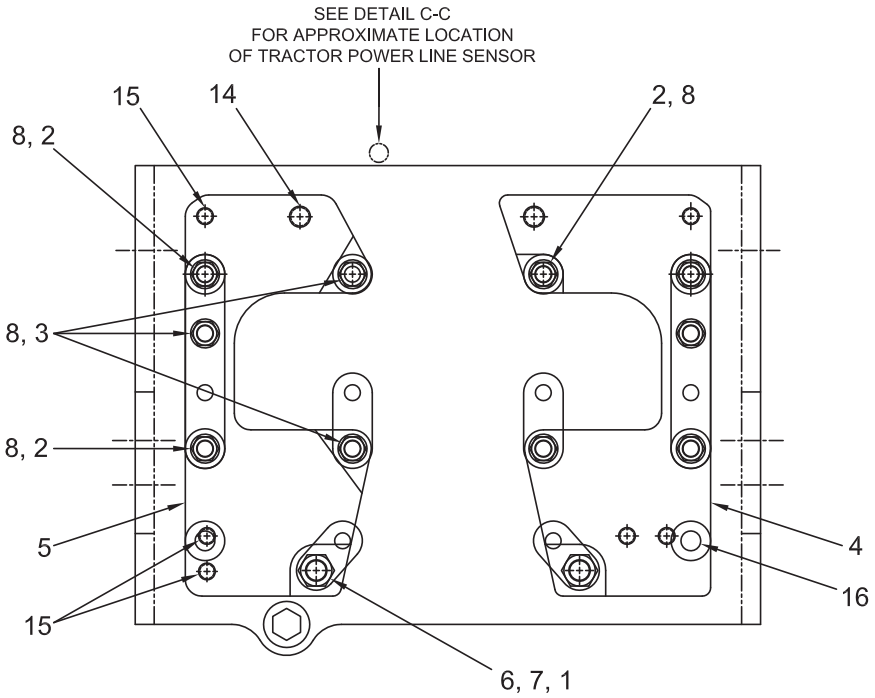
Item	Part No.	Description	Qty
1.16	221711W	Nut	4
1.17	221771W	Washer	4
1.18	15166W	Washer	2
1.19	225768	Capscrew	2
1.20	2301850W	Cover, Dust	1
1.22	223453W	Shim .020	AR
1.24	129563W	Clamp, Strap (Not Shown)	1
1.26	2310958	Wrench, Extension Torque	1
1.27	15158W	Washer	2
1.28	2307311W	Washer	1
3	2313334	Driveshaft - w/Slip	1

*a Use 230064W Loctite Kit
*b Use 318702W Thread Lock

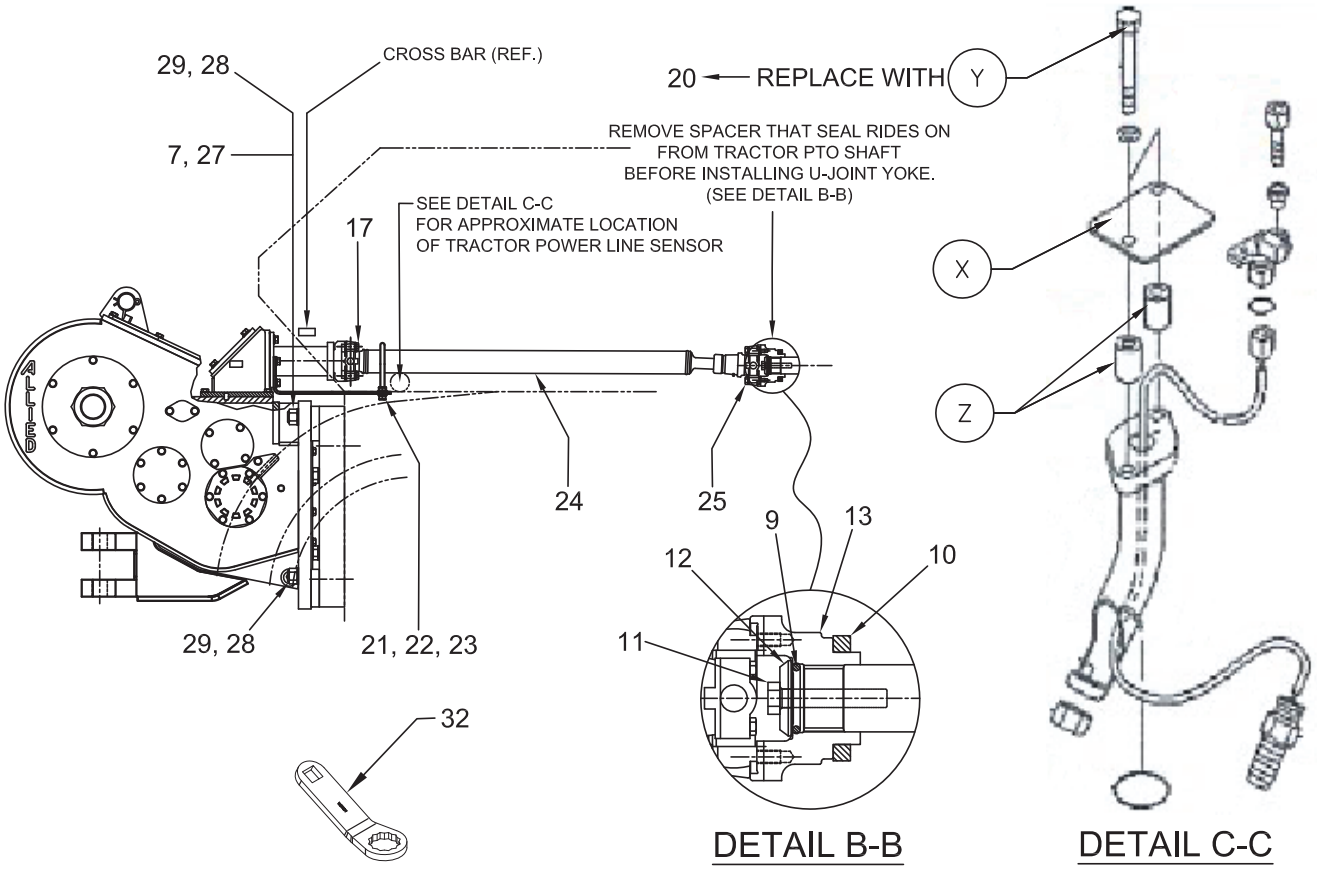
Mounting Parts

Komatsu D61EX-12, D61EX-15 (K47)

Page 1 of 2



D61EX-12 TRACTOR REAR FACE



DETAIL B-B

DETAIL C-C

Mounting Parts

Komatsu D61EX-12, D61EX-15 (K47)

Page 2 of 2

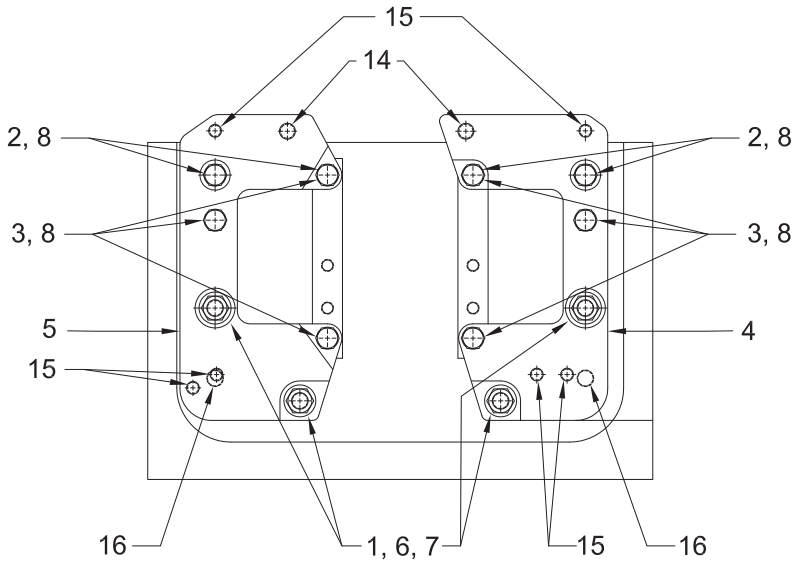
Item		Part No.	Description	Qty
1	*a	2306298W	Stud	2
2	*a, *b	293729W	Capscrew	5
3	*b	293731W	Capscrew	5
4		2306299W	Spacer, RH	1
5		2306300W	Spacer, LH	1
6	*b	221724W	Nut	2
7		15128W	Washer	4
8		296434W	Washer	10
9		2301641W	O-Ring	1
10		2301642W	Seal	1
11	*a	2301643W	Capscrew	1
12		2300422W	Washer	1
13		2300423W	Yoke, PTO	1
14	*a	2301140W	Stud	2
15	*a	2301144W	Stud	6
16		18001W	Plug	2
17	*a	221507W	Capscrew	4
20		293629W	Capscrew	2
21		2304350W	Assembly, U-Bolt	1
22		15158W	Washer	2
23		15135W	Washer	4
24		2303674W	Shaft	1
		53038W	. Capscrew	8
		R12968393	. U-Joint	2
		261676W	. Slip Yoke	1
		NSS	. Propeller Shaft	1
25	*a	293632W	Capscrew	4
27	*b	221725W	Nut	2
28	*b	221721W	Nut	6
29		221780W	Washer	6
32		2310958	Wrench, Torque Extension	1

*a Use 230064W Loctite Kit

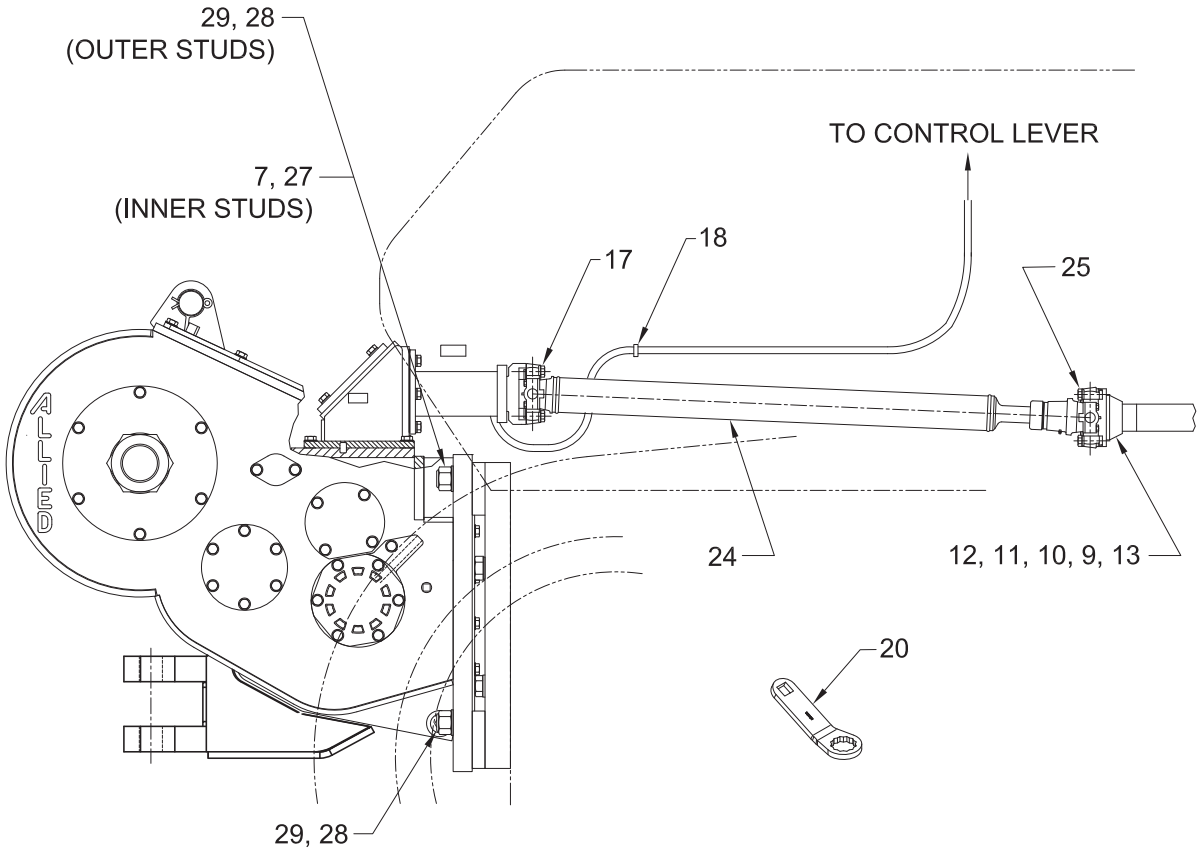
*b Use 318702 Thread Lock

Mounting Parts

Komatsu D65EX-12/15, D65EX-15E0, D65PX-12/15, D65WX-15E0 (K46)



REAR VIEW



Mounting Parts

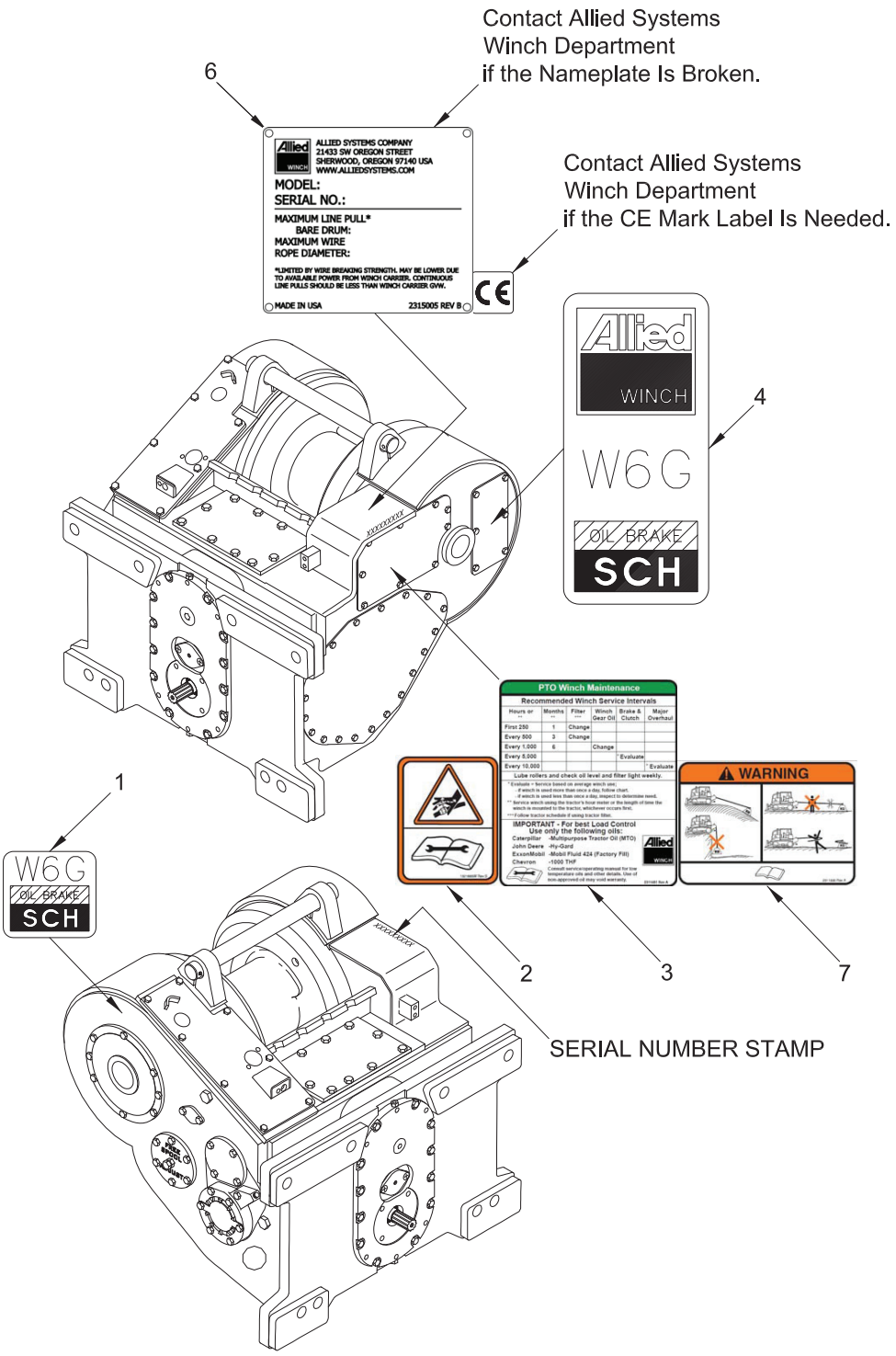
Komatsu D65EX-12/15, D65EX-15E0, D65PX-12/15, D65WX-15E0 (K46)

Item		Part No.	Description	Qty
1	*a	2301638W	Stud	4
2	*a	274044W	Capscrew	3
3	*a	293730W	Capscrew	5
4		2301639W	Spacer, RH	1
5		2301640W	Spacer, LH	1
6		221724W	Nut	4
7		15128W	Washer	6
8		296434W	Washer	8
9		2301641W	O-Ring	1
10		2301642W	Seal, Oil	1
11	*a	2301643W	Capscrew	1
12		2300422W	Washer	1
13		2300423W	Yoke, PTO	1
14	*a	2301140W	Stud	2
15	*a	2301144W	Stud	6
16		18001W	Plug	2
17	*a	221507W	Capscrew	4
20		2310958	Wrench, Torque Extension	1
24	*c	2300966W	Shaft	1
		53038W	. Capscrew	8
		R12968393	. U-Joint	2
		261676W	. Yoke, Slip	1
		NSS	. Shaft, Propeller	1
25	*a	293632W	Capscrew	4
27	*b	221725W	Nut	2
28		221721W	Nut	6
29		221780W	Washer	6

*a Use 230064W Loctite Kit

*b Use 318702W Thread Lock

Nameplate & Decals



Item	Part No.	Description	Qty
1	2300792W	Decal, Model - RH	1
2	1321665W	Decal, Warning	1
3	2311481	Decal, PTO Winch Maintenance	1
4	2300791W	Decal, Model - LH	1
6	16602W	Screw	4
7	2311330	Decal, Load & Wire Rope Safety	1

Gear Train/Shaft

Brake Arrangement . . . . . 2-50 thru 2-53

Clutch Assembly . . . . . 2-46 thru 2-49

Clutch Group . . . . . 2-42 thru 2-45

Drum Shaft . . . . . 2-62 & 2-63

Freespool Lockout Kit 2-64

Idler Gear Shaft 2-61

Input Arrangement . . . . . 2-2 thru 2-41

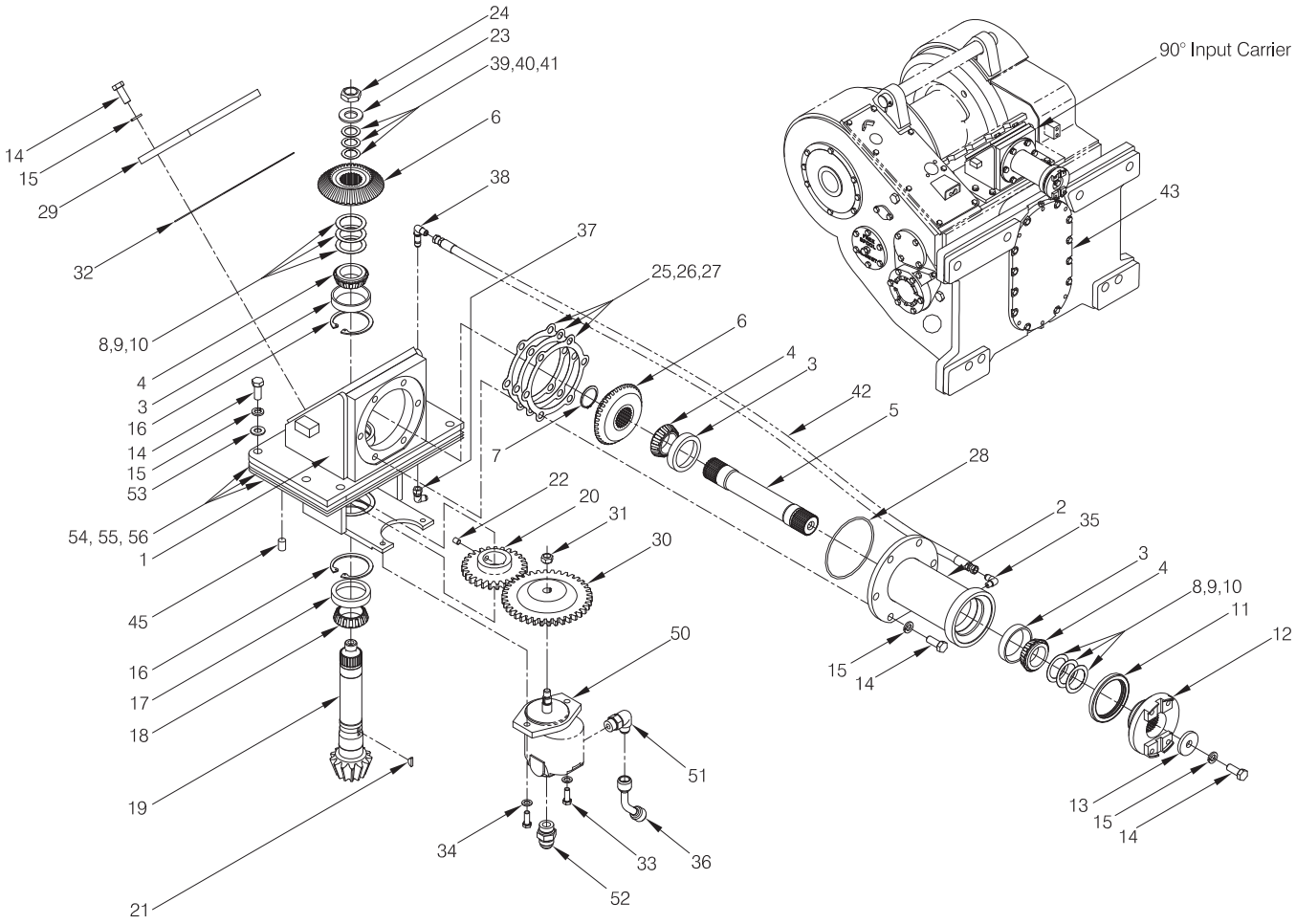
Intermediate Gear Shaft . . . . . 2-54 thru 2-60

Wire Rope Lock 2-65

90° Input Arrangement

Case Quadtrac (R39)

Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
32	2302729W	5-1

90° Input Arrangement

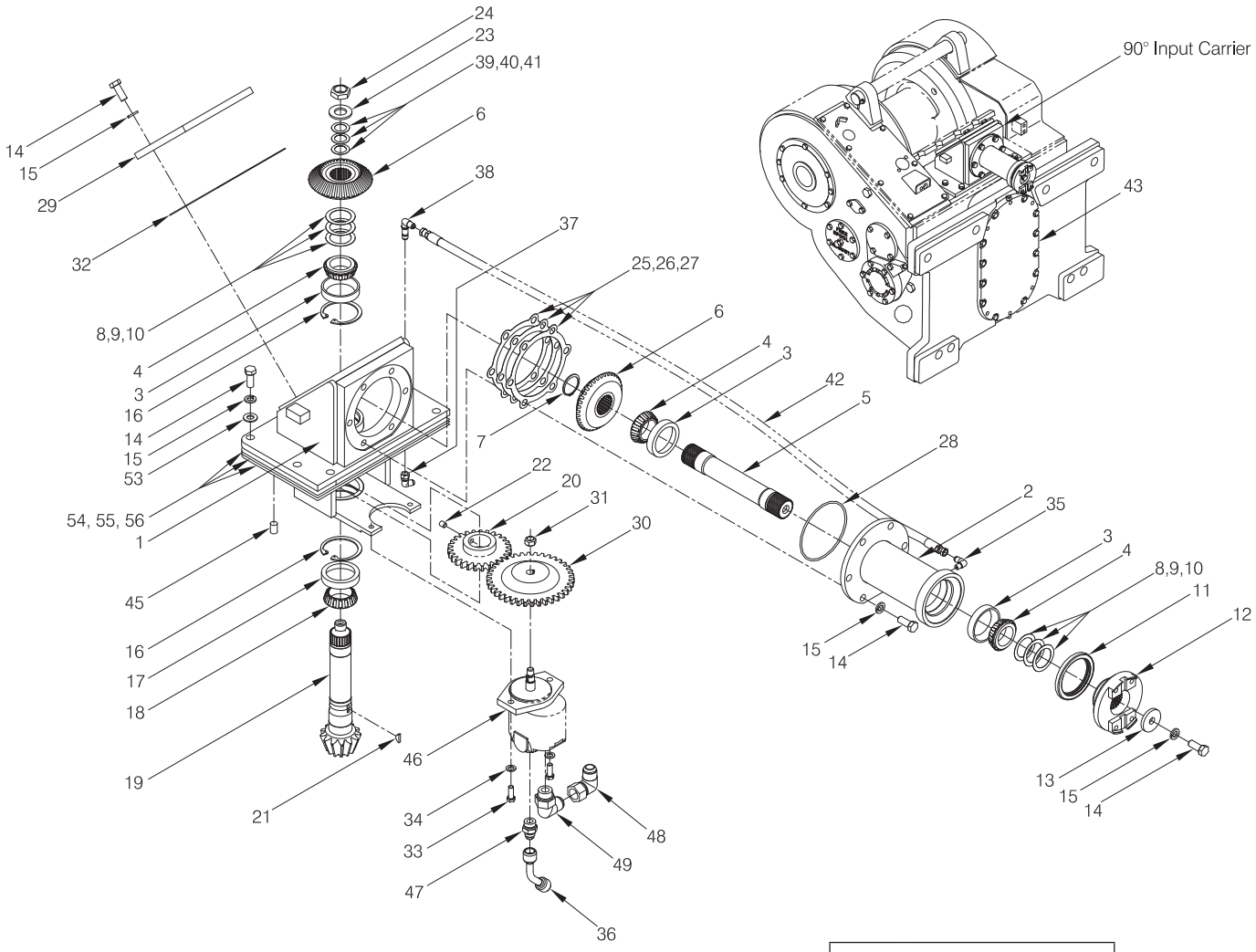
Case Quadtrac (R39)

Item		Part No.	Description	Qty
1		2301605W	Housing, Gear	1
2		2301601W	Carrier, PTO	1
3		2301338W	Cup, Roller Bearing	3
4		2301339W	Cone, Roller Bearing	3
5		2301618W	Shaft	1
6		2301616W	Gear, Bevel	2
7		58941W	Ring, Snap	1
8		2301624W	Shim .005	AR
9		2301625W	Shim .007	AR
10		2301626W	Shim .020	AR
11		123270W	Seal	1
12		2301600W	Yoke	1
13		2301627W	Washer	1
14	*a	178402W	Capscrew	11
15		15158W	Washer	11
16		58929W	Ring, Snap	2
17		2301336W	Cup, Roller Bearing	1
18		2301337W	Cone, Roller Bearing	1
19		2301619W	Pinion	1
20		2301621W	Gear	1
21		2312027	Key	1
22	*b	220984W	Screw	1
23		221779W	Washer	1
24		222677W	Nut	1
25		110934W	Shim .005	AR
26		110935W	Shim .007	AR
27		110936W	Shim .020	AR
28		55289W	O-Ring	1
29		2301613W	Cover	1
30	*d	2305656W	Gear	1
30	*e	2307118W	Gear	1
31		221355W	Nut	1
32		2301631W	Gasket	1
33		16805W	Capscrew	2
34		15156W	Washer	2
35		14500W	Fitting	1
36		2302240W	Assembly, Tube	1
37		16987W	Fitting	1
38		16455W	Fitting	1
39		250833W	Shim .005	AR
40		2301644W	Shim .007	AR
41		250834W	Shim .020	AR
42		140288W	Assembly, Hose	1
43	*c	2301632W	Plate, Cover	1
45		176208W	Pin	1
50		- - - - - - -	Pump (3-65)	1
51		17224W	Fitting	1
52		16543W	Fitting	1
53		15135W	Washer	8
54		2301628W	Shim .005	AR
55		2301629W	Shim .007	AR
56		2301630W	Shim .020	AR

*a Use 1324880W Adhesive/Sealant
*b Use 383789W Adhesive/Sealant
*c Use HCE-96 Adhesive Sealant in Bead to This Location Prior to Assembly
*d Last Used on S/N AW6G-1197
*e First Used on S/N AW6G-1198

90° Input Arrangement

Komatsu D61EX-12/-15 (K47);
D65E-12 & D65EX-12/-15 (K46)
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
32	2302729W	5-1

90° Input Arrangement

Komatsu D61EX-12/-15 (K47);
D65E-12 & D65EX-12/-15 (K46)
Page 2 of 2

Item		Part No.	Description	Qty
1		2301605W	Housing, Gear	1
2		2301601W	Carrier, PTO	1
3		2301338W	Cup, Roller Bearing	3
4		2301339W	Cone, Roller Bearing	3
5		2301618W	Shaft	1
6		2301616W	Gear, Bevel	2
7		58941W	Ring, Snap	1
8		2301624W	Shim .005	AR
9		2301625W	Shim .007	AR
10		2301626W	Shim .020	AR
11		123270W	Seal	1
12		2301600W	Yoke	1
13		2301627W	Washer	1
14	*a	178402W	Capscrew	11
15		15158W	Washer	11
16		58929W	Ring, Snap	2
17		2301336W	Cup, Roller Bearing	1
18		2301337W	Cone, Roller Bearing	1
19		2301619W	Pinion	1
20		2301621W	Gear	1
21		2312027	Key	1
22	*b	220984W	Screw	1
23		221779W	Washer	1
24		222677W	Nut	1
25		110934W	Shim .005	AR
26		110935W	Shim .007	AR
27		110936W	Shim .020	AR
28		55289W	O-Ring	1
29		2301613W	Cover	1
30	*d	2305656W	Gear	1
	*e	2307118W	Gear	1

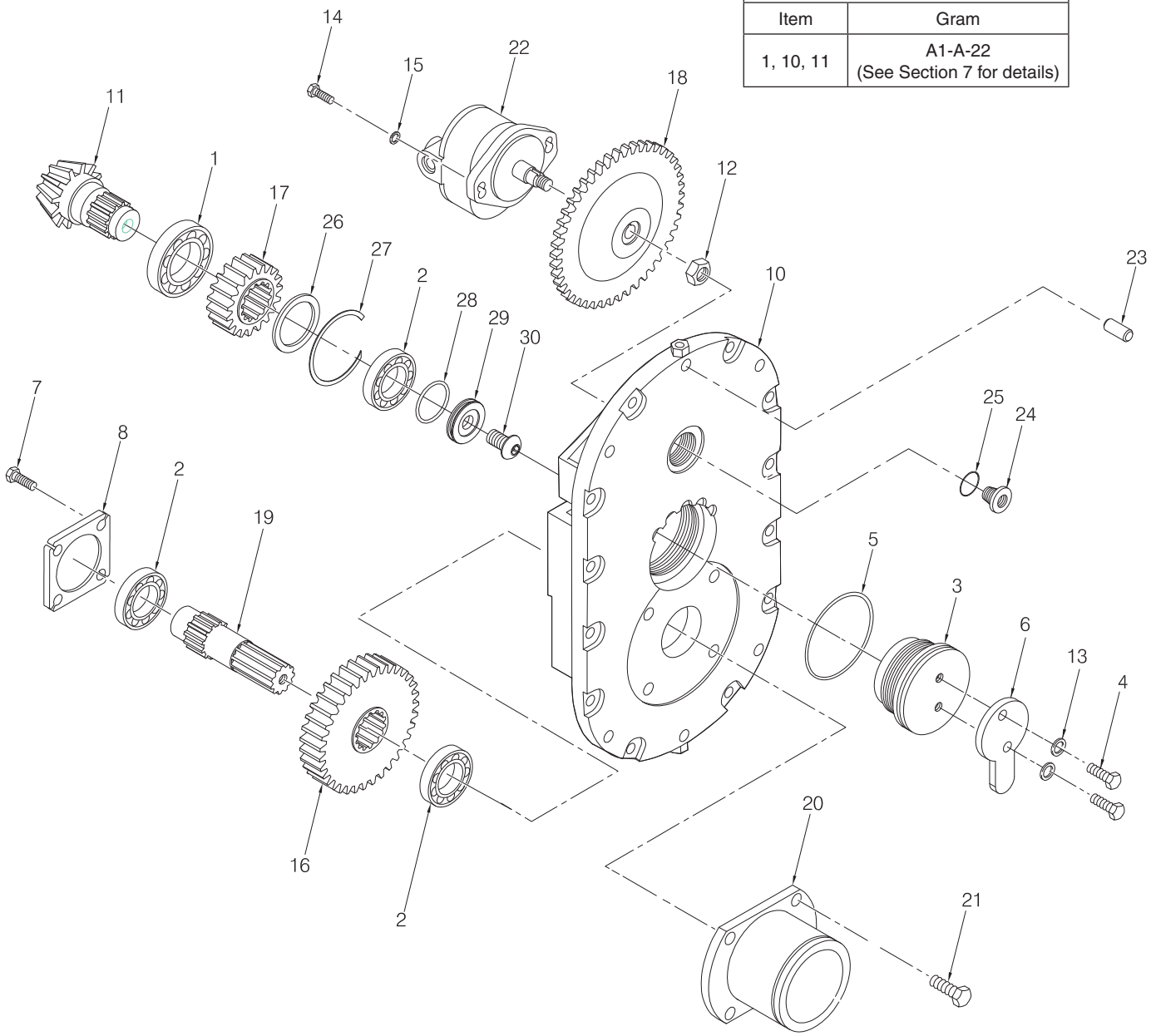
Item		Part No.	Description	Qty
31		221355W	Nut	1
32		2301631W	Gasket	1
33		16805W	Capscrew	2
34		15156W	Washer	2
35		14500W	Fitting	1
36		2302240W	Assembly, Tube	1
37		16987W	Fitting	1
38		16455W	Fitting	1
39		250833W	Shim .005	AR
40		2301644W	Shim .007	AR
41		250834W	Shim .020	AR
42		140288W	Assembly, Hose	1
43	*c	2301632W	Plate, Cover	1
45		176208W	Pin	1
46		- - - - - - -	Pump (3-67 & 3-68)	1
47		16909W	Fitting	1
48		83857W	Fitting	1
49		16561W	Fitting	1
53		15135W	Washer	8
54		2301628W	Shim .005	AR
55		2301629W	Shim .007	AR
56		2301630W	Shim .020	AR

*a	Use 1324880W Adhesive/Sealant
*b	Use 383789W Adhesive/Sealant
*c	Use HCE-96 Adhesive Sealant in Bead to This Location Prior to Assembly
*d	Last Used on AW6G-1197
*e	First Used on AW6G-1198

Low Input Arrangement

Case 1850K (R49)
Last Used on S/N AW6G-1061
Page 1 of 2

Parts Service Gram	
Item	Gram
1, 10, 11	A1-A-22 (See Section 7 for details)



Low Input Arrangement

Case 1850K (R49)
Last Used on S/N AW6G-1061
Page 2 of 2

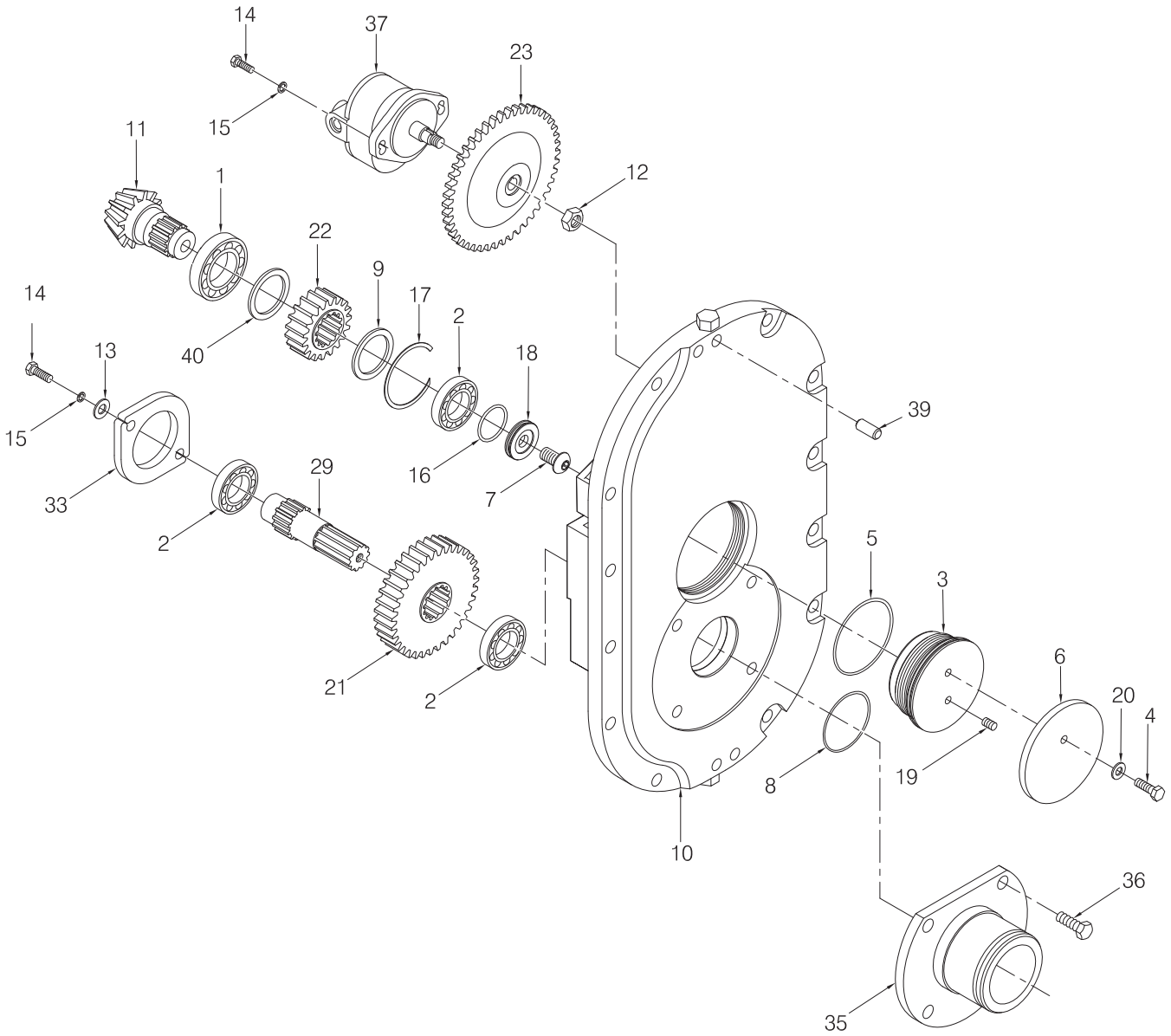
A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item	Part No.	Description	Qty A	Qty B	Qty C
1	44310W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3	2302993W	Carrier, Pinion	1	1	1
4	16691W	Capscrew	2	2	2
5	39371W	O-Ring	1	1	1
6	2302492W	Keeper	1	1	1
7	194090W	Capscrew	4	4	4
8	2300645W	Retainer, Bearing	1	1	1
10	2302493W	Carrier, Input	1	1	1
11	2300624W	Gear, Bevel	1	1	1
12	138750W	Nut	1	1	1
13	15155W	Washer	2	2	2
14	16805W	Capscrew	2	2	2
15	15156W	Washer	2	2	2
16	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1
17	2300625W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300647W	Gear	--	--	1
18	2300654W	Gear	1	--	--
	2300747W	Gear	--	1	--
	2300748W	Gear	--	--	1
19	2301484W	Shaft, Input	1	1	1
20 *a	2301431W	Pilot, PTO	1	1	1
21	178402W	Capscrew	4	4	4
22	- - - - - - -	Pump (3-68)	1	1	1
23	222734W	Pin	2	2	2
24	188210W	Fitting	1	1	1
25	16983W	. O-Ring	1	1	1
26	2306201W	Spacer	1	1	1
27	2306203W	Ring, Snap	1	1	1
28	2306202W	O-Ring	1	1	1
29 *b	2306204W	Plate	1	1	1
30 *b	220098W	Capscrew	1	1	1

*a Use 1324880W Adhesive/Sealant
*b Use 318702W Thread Lock

Low Input Arrangement

Case 1850K (R49)
First Used on S/N AW6G-1062
Page 1 of 2



Low Input Arrangement

Case 1850K (R49)
First Used on S/N AW6G-1062
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item		Part No.	Description	Qty A	Qty B	Qty C
1	*e	44310W	Bearing	1	1	1
	*f	41210W	Bearing	1	1	1
2		44308W	Bearing	3	3	3
3	*c	2305630W	Carrier, Pinion	1	1	1
	*d	2306200W	Carier, Pinion	1	1	1
4		2305631W	Capscrew	1	1	1
5		39371W	O-Ring	1	1	1
6		2305628W	Keeper	1	1	1
7	*a, *d, *g	220098W	Capscrew	1	1	1
8		165035W	Seal	1	1	1
9	*e	2306201W	Spacer	1	1	1
	*f	2306423W	Spacer	1	1	1
10	*e	2305629W	Carrier, Input	1	1	1
	*f	2306561W	Carrier, Input	1	1	1
11	*e	2300624W	Gear, Bevel	1	1	1
	*f, *g	2306564W	Gear, Bevel	1	1	1
	*h	2307599W	Gear, Bevel	1	1	1
12	*q	221355W	Nut	1	1	1
13		15134W	Washer	2	2	2
14	*b	16805W	Capscrew	4	4	4
15		15156W	Washer, Lock	4	4	4
16	*d	2306202W	O-Ring	1	1	1
17	*d	2306203W	Ring, Snap	1	1	1
18	*d, *g	2306204W	Plate	1	1	1
19	*d	2306350W	Setscrew	1	1	1
20	*d	18515W	Washer	1	1	1
21		2300647W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300625W	Gear	--	--	1
22		2300625W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300647W	Gear	--	--	1

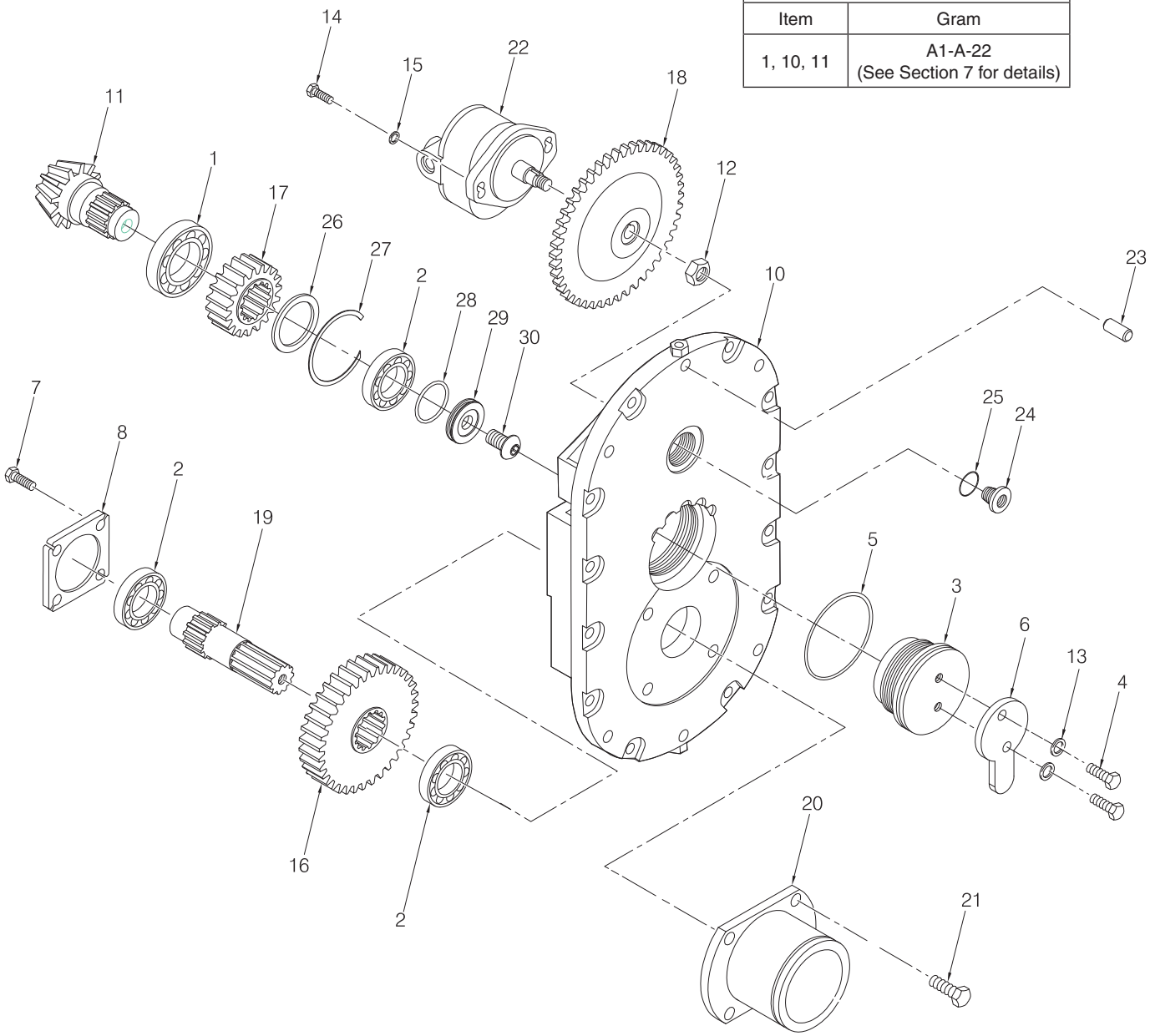
Item		Part No.	Description	Qty A	Qty B	Qty C
23	*j	2305655W	Gear	1	--	--
	*k	2307117W	Gear	1	--	--
	*l	2305656W	Gear	--	1	--
	*m	2307118W	Gear	--	1	--
	*n	2305657W	Gear	--	--	1
	*p	2307119W	Gear	--	--	1
29		2301484W	Shaft, Input	1	1	1
33		2300645W	Retainer, Bearing	1	1	1
35		2301431W	Pilot, PTO	1	1	1
36		178402W	Capscrew	4	4	4
37		- - - - - - - -	Pump (3-68)	1	1	1
39		222734W	Pin	2	2	2
40		2304942W	Spacer	1	1	1

*a	Use 318702W Thread Lock
*b	Use 1324880W Adhesive/Sealant
*c	Last used on S/N AW6G-1111
*d	First used on S/N AW6G-1112
*e	Last used on S/N AW6G-1149
*f	First used on S/N AW6G-1150
*g	Last used on S/N AW6G-1420
*h	First used on S/N AW6G-1421
*j	Last used on S/N AW6G-1220
*k	First used on S/N AW6G-1221
*l	Last used on S/N AW6G-1197
*m	First used on S/N AW6G-1198
*n	Last used on S/N AW6G-1214
*p	First used on S/N AW6G-1215
*q	Use 383789W Adhesive/Sealant

Low Input Arrangement

Caterpillar D6H DD (C481), D6H PS (C480);
D6R PS (C50); D6R Series II & III (C71)
Last Used on S/N AW6G-1061
Page 1 of 2

Parts Service Gram	
Item	Gram
1, 10, 11	A1-A-22 (See Section 7 for details)



Low Input Arrangement

Caterpillar D6H DD (C481), D6H PS (C480);
D6R PS (C50); D6R Series II & III (C71)
Last Used on S/N AW6G-1061
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

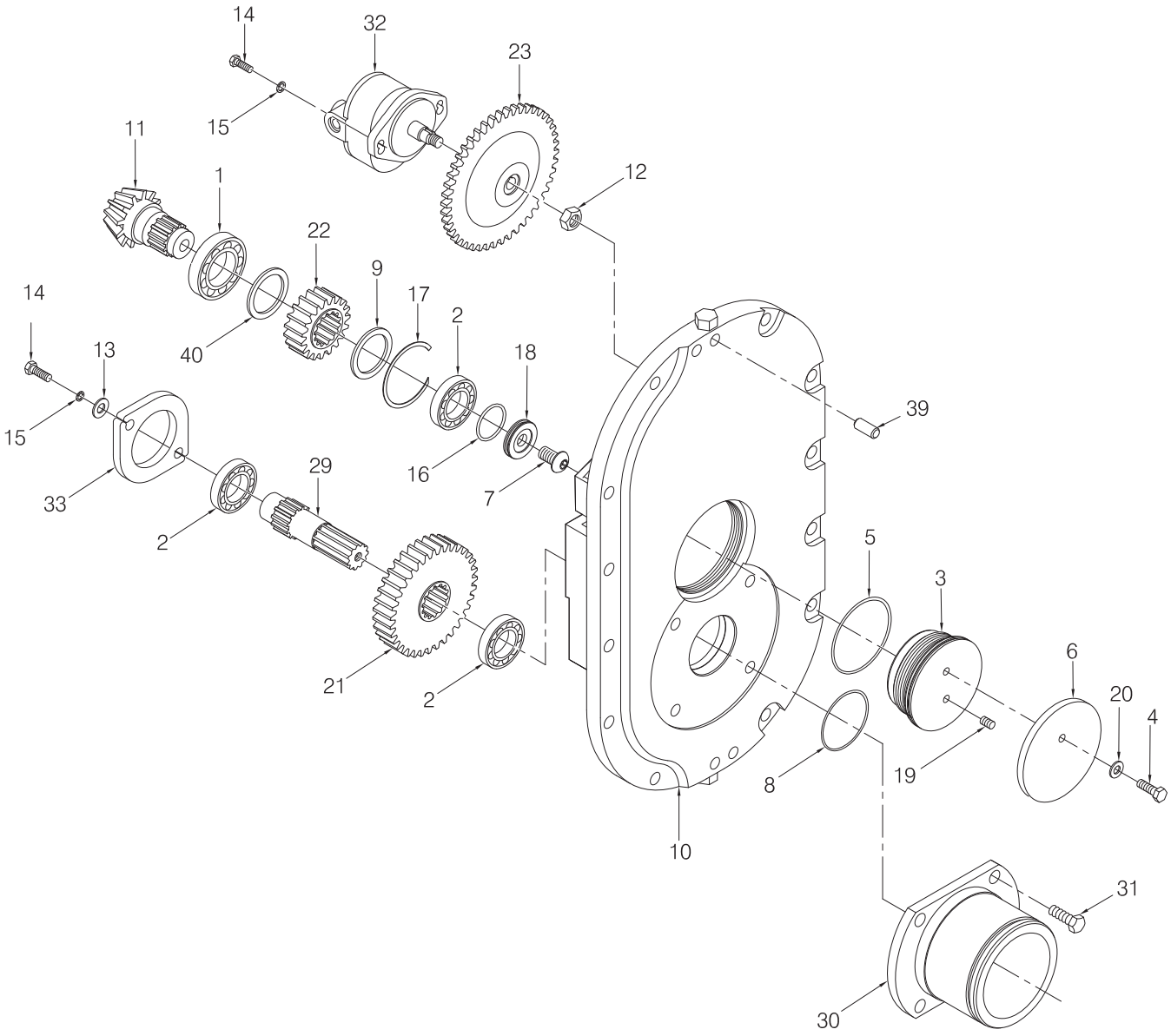
Item	Part No.	Description	Qty A	Qty B	Qty C
1	44310W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3	2302993W	Carrier, Pinion	1	1	1
4	16691W	Capscrew	2	2	2
5	39371W	O-Ring	1	1	1
6	2302492W	Keeper	1	1	1
7	194090W	Capscrew	4	4	4
8	2300645W	Retainer, Bearing	1	1	1
10	2302493W	Carrier, Input	1	1	1
11	2300624W	Gear, Bevel	1	1	1
12	138750W	Nut	1	1	1
13	15155W	Washer	2	2	2
14	16805W	Capscrew	2	2	2
15	15156W	Washer	2	2	2
16	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1
17	2300625W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300647W	Gear	--	--	1

Item		Part No.	Description	Qty A	Qty B	Qty C
18		2300654W	Gear	1	--	--
		2300747W	Gear	--	1	--
		2300748W	Gear	--	--	1
19		2300646W	Shaft, Input	1	1	1
20	*a	2300648W	Pilot, PTO	1	1	1
21		178402W	Capscrew	4	4	4
22		- - - - - - -	Pump (3-65 & 3-66)	1	1	1
23		222734W	Pin	2	2	2
24		188210W	Fitting	1	1	1
25		16983W	. O-Ring	1	1	1
26		2306201W	Spacer	1	1	1
27		2306203W	Ring, Snap	1	1	1
28		2306202W	O-Ring	1	1	1
29	*b	2306204W	Plate	1	1	1
30	*b	220098W	Capscrew	1	1	1

*a Use 1324880W Adhesive/Sealant
*b Use 318702W Thread Lock

Low Input Arrangement

Caterpillar D6H DD (C481), D6H PS (C480);
D6R PS (C50); D6R Series II & III (C71)
First Used on S/N AW6G-1062
Page 1 of 2



Low Input Arrangement

Caterpillar D6H DD (C481), D6H PS (C480);
D6R PS (C50); D6R Series II & III (C71)
First Used on S/N AW6G-1062

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item		Part No.	Description	Qty A	Qty B	Qty C
1	*e	44310W	Bearing	1	1	1
	*f	41210W	Bearing	1	1	1
2		44308W	Bearing	3	3	3
3	*c	2305630W	Carrier, Pinion	1	1	1
	*d	2306200W	Carier, Pinion	1	1	1
4		2305631W	Capscrew	1	1	1
5		39371W	O-Ring	1	1	1
6		2305628W	Keeper	1	1	1
7	*a, *d, *g	220098W	Capscrew	1	1	1
8		165035W	Seal	1	1	1
9	*e	2306201W	Spacer	1	1	1
	*f	2306423W	Spacer	1	1	1
10	*e	2305629W	Carrier, Input	1	1	1
	*f	2306561W	Carrier, Input	1	1	1
11	*e	2300624W	Gear, Bevel	1	1	1
	*f, *g	2306564W	Gear, Bevel	1	1	1
	*h	2307599W	Gear, Bevel	1	1	1
12	*q	221355W	Nut	1	1	1
13		15134W	Washer	2	2	2
14	*b	16805W	Capscrew	4	4	4
15		15156W	Washer, Lock	4	4	4
16	*d	2306202W	O-Ring	1	1	1
17	*d	2306203W	Ring, Snap	1	1	1
18	*d, *g	2306204W	Plate	1	1	1
19	*d	2306350W	Setscrew	1	1	1
20	*d	18515W	Washer	1	1	1
21		2300647W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300625W	Gear	--	--	1
22		2300625W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300647W	Gear	--	--	1

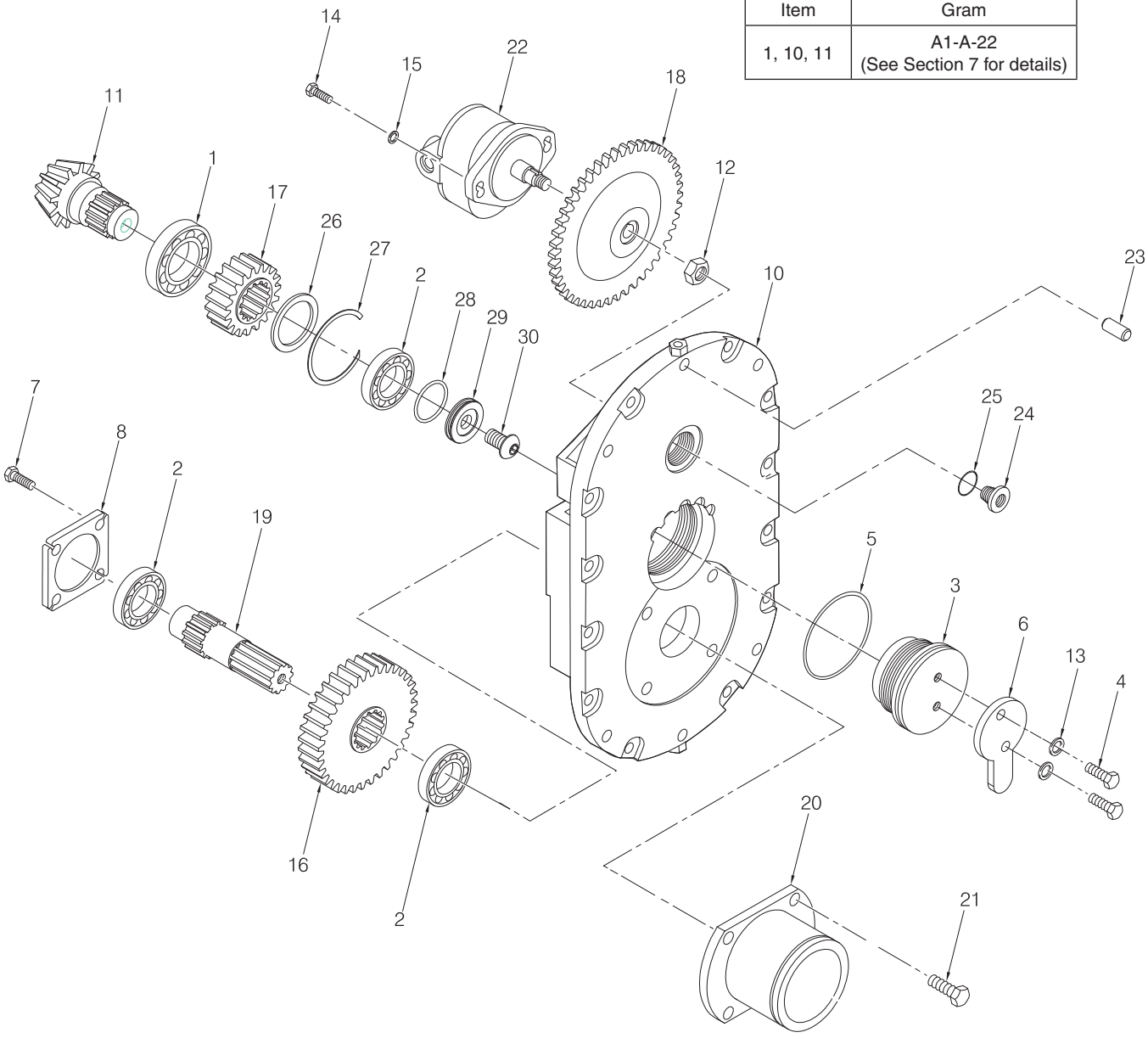
Item		Part No.	Description	Qty A	Qty B	Qty C
23	*j	2305655W	Gear	1	--	--
	*k	2307117W	Gear	1	--	--
	*l	2305656W	Gear	--	1	--
	*m	2307118W	Gear	--	1	--
	*n	2305657W	Gear	--	--	1
	*p	2307119W	Gear	--	--	1
29		2300646W	Shaft, Input	1	1	1
30		2300648W	Pilot, PTO	1	1	1
31		178402W	Capscrew	4	4	4
32		- - - - - - - -	Pump (3-65 & 3-66)	1	1	1
33		2300645W	Retainer, Bearing	1	1	1
39		222734W	Pin	2	2	2
40		2304942W	Spacer	1	1	1

*a	Use 318702W Thread Lock
*b	Use 1324880W Adhesive/Sealant
*c	Last Used on S/N AW6G-1111
*d	First Used on S/N AW6G-1112
*e	Last Used on S/N AW6G-1149
*f	First Used on S/N AW6G-1150
*g	Last Used on S/N AW6G-1420
*h	First Used on S/N AW6G-1421
*j	Last Used on S/N AW6G-1220
*k	First Used on S/N AW6G-1221
*l	Last Used on S/N AW6G-1197
*m	First Used on S/N AW6G-1198
*n	Last Used on S/N AW6G-1214
*p	First Used on S/N AW6G-1215
*q	Use 383789W Adhesive/Sealant

Low Input Arrangement

Fiat-Hitachi/New Holland DC-180 (A49);
FD14E (A48)
Last Used on S/N AW6G-1061
Page 1 of 2

Parts Service Gram	
Item	Gram
1, 10, 11	A1-A-22 (See Section 7 for details)



Low Input Arrangement

Fiat-Hitachi/New Holland DC-180 (A49);
FD14E (A48)
Last Used on S/N AW6G-1061
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

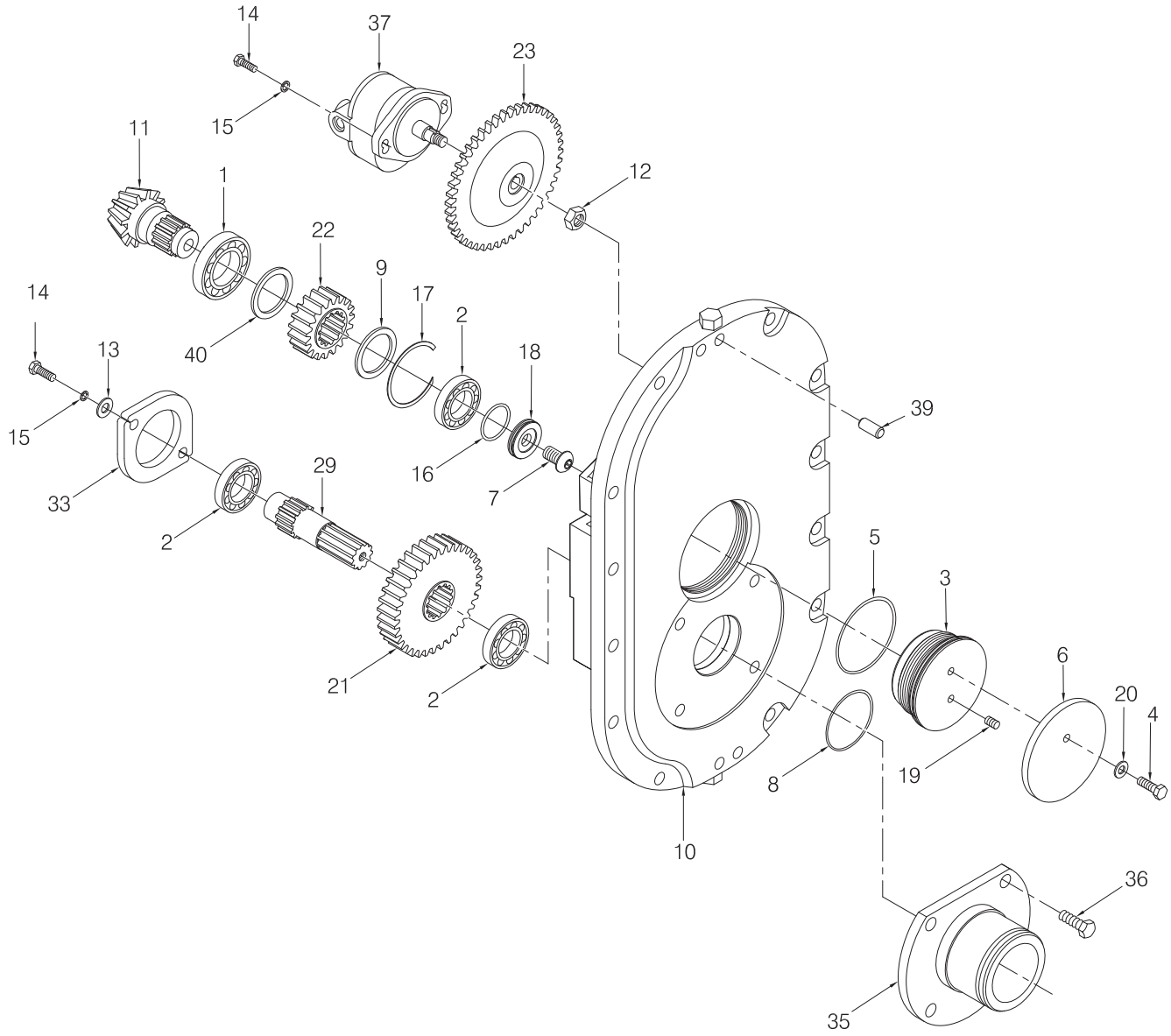
Item	Part No.	Description	Qty A	Qty B	Qty C
1	44310W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3	2302993W	Carrier, Pinion	1	1	1
4	16691W	Capscrew	2	2	2
5	39371W	O-Ring	1	1	1
6	2302492W	Keeper	1	1	1
7	194090W	Capscrew	4	4	4
8	2300645W	Retainer, Bearing	1	1	1
10	2302493W	Carrier, Input	1	1	1
11	2300624W	Gear, Bevel	1	1	1
12	138750W	Nut	1	1	1
13	15155W	Washer	2	2	2
14	16805W	Capscrew	2	2	2
15	15156W	Washer	2	2	2
16	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1
17	2300625W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300647W	Gear	--	--	1

Item		Part No.	Description	Qty A	Qty B	Qty C
18		2300654W	Gear	1	--	--
		2300747W	Gear	--	1	--
		2300748W	Gear	--	--	1
19		2301484W	Shaft, Input	1	1	1
20	*a	2301431W	Pilot, PTO	1	1	1
21		178402W	Capscrew	4	4	4
22		- - - - - - -	Pump (3-67 & 3-68)	1	1	1
23		222734W	Pin	2	2	2
24		188210W	Fitting	1	1	1
25		16983W	. O-Ring	1	1	1
26		2306201W	Spacer	1	1	1
27		2306203W	Ring, Snap	1	1	1
28		2306202W	O-Ring	1	1	1
29		2306204W	Plate	1	1	1
30	*b	220098W	Capscrew	1	1	1

*a Use 1324880W Adhesive/Sealant
*b Use 318702W Thread Lock

Low Input Arrangement

Fiat-Hitachi/New Holland DC180 (A49);
FD14E, FD175/195, FDX175/195 (A48)
First Used on S/N AW6G-1062
Page 1 of 2



Low Input Arrangement

Fiat-Hitachi/New Holland DC180 (A49);
FD14E, FD175/195, FDX175/195 (A48)
First Used on S/N AW6G-1062
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item		Part No.	Description	Qty A	Qty B	Qty C
1	*e	44310W	Bearing	1	1	1
	*f	41210W	Bearing	1	1	1
2		44308W	Bearing	3	3	3
3	*c	2305630W	Carrier, Pinion	1	1	1
	*d	2306200W	Carier, Pinion	1	1	1
4		2305631W	Capscrew	1	1	1
5		39371W	O-Ring	1	1	1
6		2305628W	Keeper	1	1	1
7	*a, *d, *g	220098W	Capscrew	1	1	1
8		165035W	Seal	1	1	1
9	*e	2306201W	Spacer	1	1	1
	*f	2306423W	Spacer	1	1	1
10	*e	2305629W	Carrier, Input	1	1	1
	*f	2306561W	Carrier, Input	1	1	1
11	*e	2300624W	Gear, Bevel	1	1	1
	*f, *g	2306564W	Gear, Bevel	1	1	1
	*h	2307599W	Gear, Bevel	1	1	1
12	*q	221355W	Nut	1	1	1
13		15134W	Washer	2	2	2
14	*b	16805W	Capscrew	4	4	4
15		15156W	Washer, Lock	4	4	4
16	*d	2306202W	O-Ring	1	1	1
17	*d	2306203W	Ring, Snap	1	1	1
18	*d, *g	2306204W	Plate	1	1	1
19	*d	2306350W	Setscrew	1	1	1
20	*d	18515W	Washer	1	1	1
21		2300647W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300625W	Gear	--	--	1
22		2300625W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300647W	Gear	--	--	1

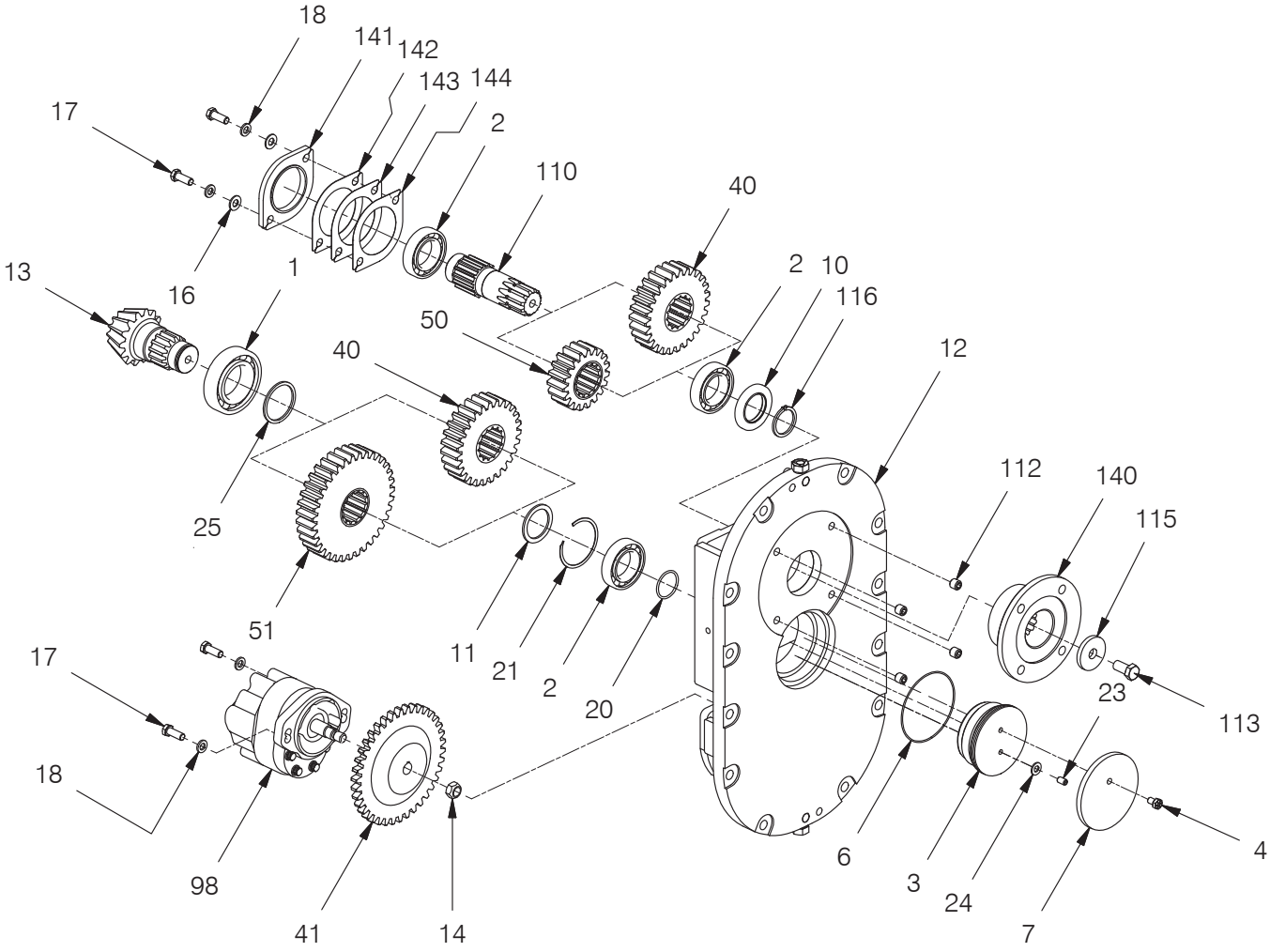
Item		Part No.	Description	Qty A	Qty B	Qty C
23	*j	2305655W	Gear	1	--	--
	*k	2307117W	Gear	1	--	--
	*l	2305656W	Gear	--	1	--
	*m	2307118W	Gear	--	1	--
	*n	2305657W	Gear	--	--	1
	*p	2307119W	Gear	--	--	1
29		2301484W	Shaft, Input	1	1	1
33		2300645W	Retainer, Bearing	1	1	1
35		2301431W	Pilot, PTO	1	1	1
36		178402W	Capscrew	4	4	4
37		- - - - - - - -	Pump (3-67 & 3-68)	1	1	1
39		222734W	Pin	2	2	2
40		2304942W	Spacer	1	1	1

*a	Use 318702W Thread Lock
*b	Use 1324880W Adhesive/Sealant
*c	Last Used on S/N AW6G-1111
*d	First Used on S/N AW6G-1112
*e	Last Used on S/N AW6G-1149
*f	First Used on S/N AW6G-1150
*g	Last Used on S/N AW6G-1420
*h	First Used on S/N AW6G-1421
*j	Last Used on S/N AW6G-1220
*k	First Used on S/N AW6G-1221
*l	Last Used on S/N AW6G-1197
*m	First Used on S/N AW6G-1198
*n	Last Used on S/N AW6G-1214
*p	First Used on S/N AW6G-1215
*q	Use 383789W Adhesive/Sealant

High Input Arrangement

Case 1650L (R40)

Page 1 of 2



High Input Arrangement

Case 1650L (R40)

Page 2 of 2

B - 83:1 & 103:1
C - 153:1

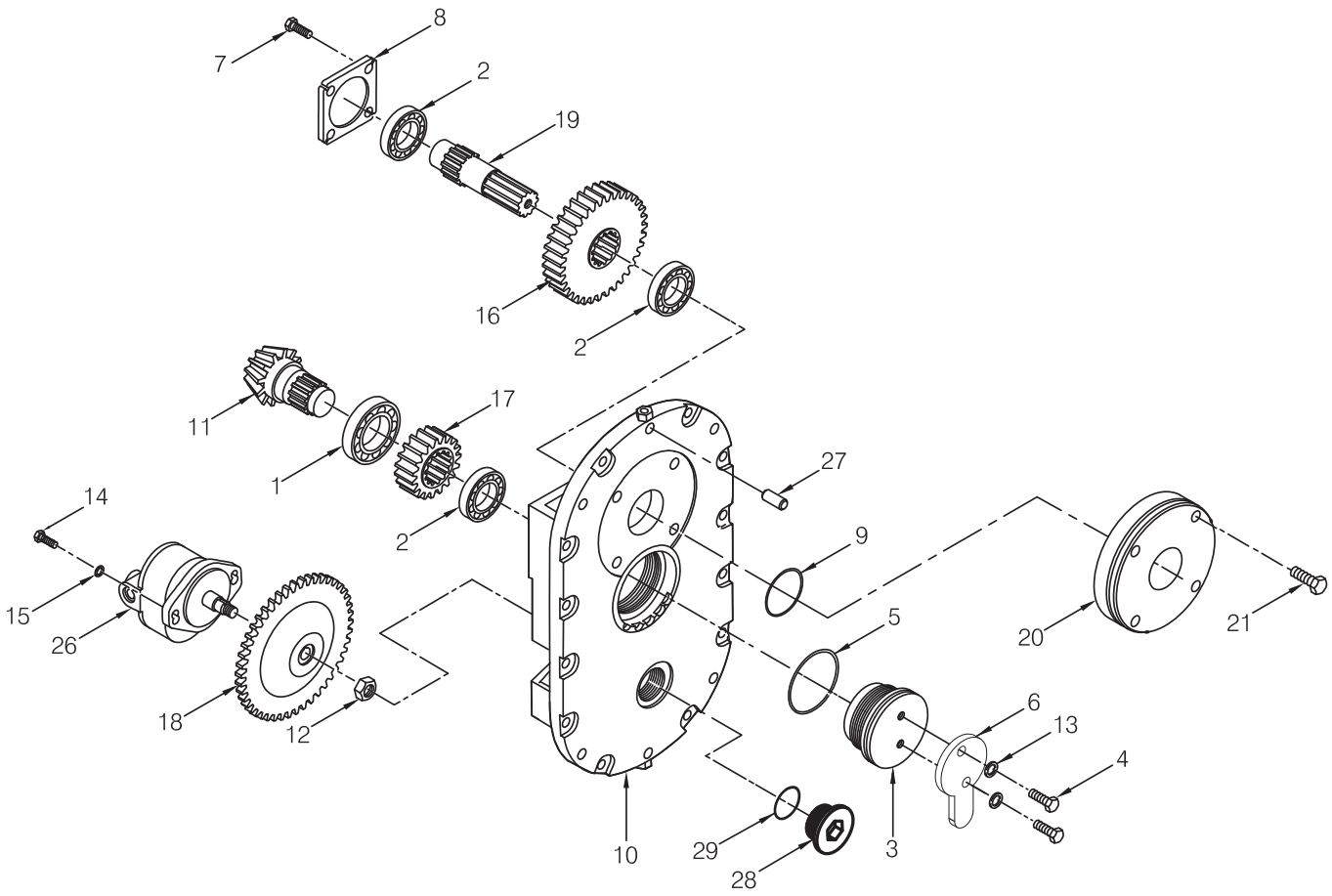
Item		Part No.	Description	Qty B	Qty C
1		41210W	Bearing	1	1
2		44308W	Bearing	3	3
3		2306200W	Adjuster, Pinion Bearing	1	1
4		2306349W	Capscre	1	1
5		16561W	Fitting	1	1
6		39371W	O-Ring	1	1
7		2305628W	Plate, Keeper	1	1
10		165035W	Seal	1	1
11		2306423W	Spacer	1	1
12		2306561W	Carrier, Input	1	1
13		2307599W	Gear, Bevel	1	1
14	*a	221355W	Nut	1	1
16		15134W	Washer	2	2
17		16805W	Capscrew	4	4
18		15156W	Washer	4	4
20	*a	2306202W	O-Ring	1	1
21		2306203W	Ring, Snap	1	1
23		2306350W	Screw, Set	1	1
24		18515W	Washer	1	1
25		2304942W	Spacer	1	1
40		2300749W	Gear	1	--
41		2307118W	Gear	1	--
50		2300625W	Gear	--	1
51		2300647W	Gear	--	1
52		2307119W	Gear	--	1
110		2300798W	Shaft, Input	1	1
112		2305987W	Screw, Set	4	4
113	*b	16829W	Capscrew	1	1
115		2301627W	Washer	1	1
116		122400W	Ring, Snap	1	1
140		2310450	Yoke	1	1
141		2300645W	Retainer, Bearing	1	1
142		2306216W	Shim .005	AR	AR
143		2306217W	Shim .007	AR	AR
144		2306218W	Shim .020	AR	AR

*a Use 383789W Adhesive/Sealant
*b Use 264134W Adhesive/Sealant

High Input Arrangement

Caterpillar D6D, D6E PS (C43);
D6G PS (C73)
Last Used on S/N AW6G-1060
Page 1 of 2

Parts Service Gram	
Item	Gram
1, 10, 11	A1-A-22 (See Section 7 for details)



High Input Arrangement

Caterpillar D6D, D6E PS (C43);
D6G PS (C73)
Last Used on S/N AW6G-1060
Page 2 of2

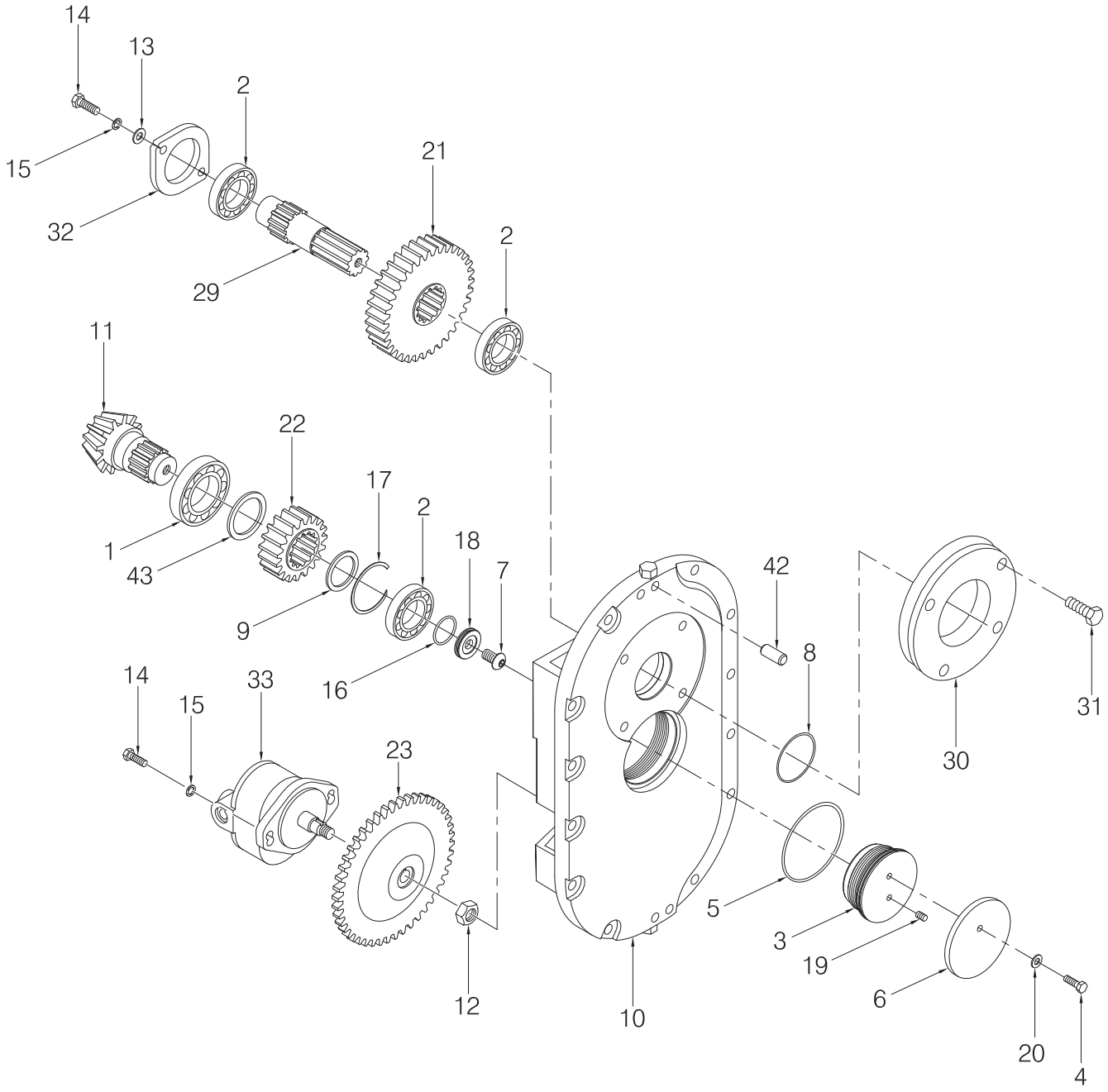
A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item	Part No.	Description	Qty A	Qty B	Qty C
1	44310W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3	2302993W	Carrier, Pinion	1	1	1
4	16691W	Capscrew	2	2	2
5	39371W	O-Ring	1	1	1
6	2302492W	Keeper	1	1	1
7	194090W	Capscrew	4	4	4
8	2300645W	Retainer, Bearing	1	1	1
9	165035W	Seal	1	1	1
10	2302493W	Carrier, Input	1	1	1
11	2300624W	Gear, Bevel	1	1	1
12	138750W	Nut	1	1	1
13	15155W	Washer	2	2	2
14	16805W	Capscrew	2	2	2
15	15156W	Washer	2	2	2
16	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1
17	2300625W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300647W	Gear	--	--	1
18	2300654W	Gear	1	--	--
	2300747W	Gear	--	1	--
	2300748W	Gear	--	--	1
19	2300646W	Shaft, Input	1	1	1
20 *a	2300779W	Pilot, PTO	1	1	1
21	307788W	Capscrew	4	4	4
26	- - - - - - -	Pump (3-65 & 3-66)	1	1	1
27	222734W	Pin	2	2	2
28	188210W	Fitting	1	1	1
29	16983W	. O-Ring	1	1	1

*a Use 1324880W Adhesive/Sealant

High Input Arrangement

Caterpillar D6D, D6E PS (C43);
D6G PS (C73)
First Used on S/N AW6G-1061
Page 1 of 2



High Input Arrangement

Caterpillar D6D, D6E PS (C43);
D6G PS (C73)
First Used on S/N AW6G-1061
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item		Part No.	Description	Qty A	Qty B	Qty C
1	*e	44310W	Bearing	1	1	1
	*f	41210W	Bearing	1	1	1
2		44308W	Bearing	3	3	3
3	*c	2305630W	Carrier, Pinion	1	1	1
	*d	2306200W	Carrier, Pinion	1	1	1
4		2305631W	Capscrew	1	1	1
5		39371W	O-Ring	1	1	1
6		2305628W	Keeper	1	1	1
7	*a, *d, *g	220098W	Capscrew	1	1	1
8		165035W	Seal	1	1	1
9	*d, *e	2306201W	Spacer	1	1	1
	*f	2306423W	Spacer	1	1	1
10	*e	2305629W	Carrier, Input	1	1	1
	*f	2306561W	Carrier, Input	1	1	1
11	*e	2300624W	Gear, Bevel	1	1	1
	*f, *g	2306564W	Gear, Bevel	1	1	1
	*h	2307599W	Gear, Bevel	1	1	1
12	*q	221355W	Nut	1	1	1
13		15134W	Washer	2	2	2
14	*b	16805W	Capscrew	4	4	4
15		15156W	Washer, Lock	4	4	4
16	*d	2306202W	O-Ring	1	1	1
17	*d	2306203W	Ring, Snap	1	1	1
18	*d, *g	2306204W	Plate	1	1	1
19	*d	2306350W	Setscrew	1	1	1
20	*d	18515W	Washer	1	1	1
21		2300647W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300625W	Gear	--	--	1
22		2300625W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300647W	Gear	--	--	1

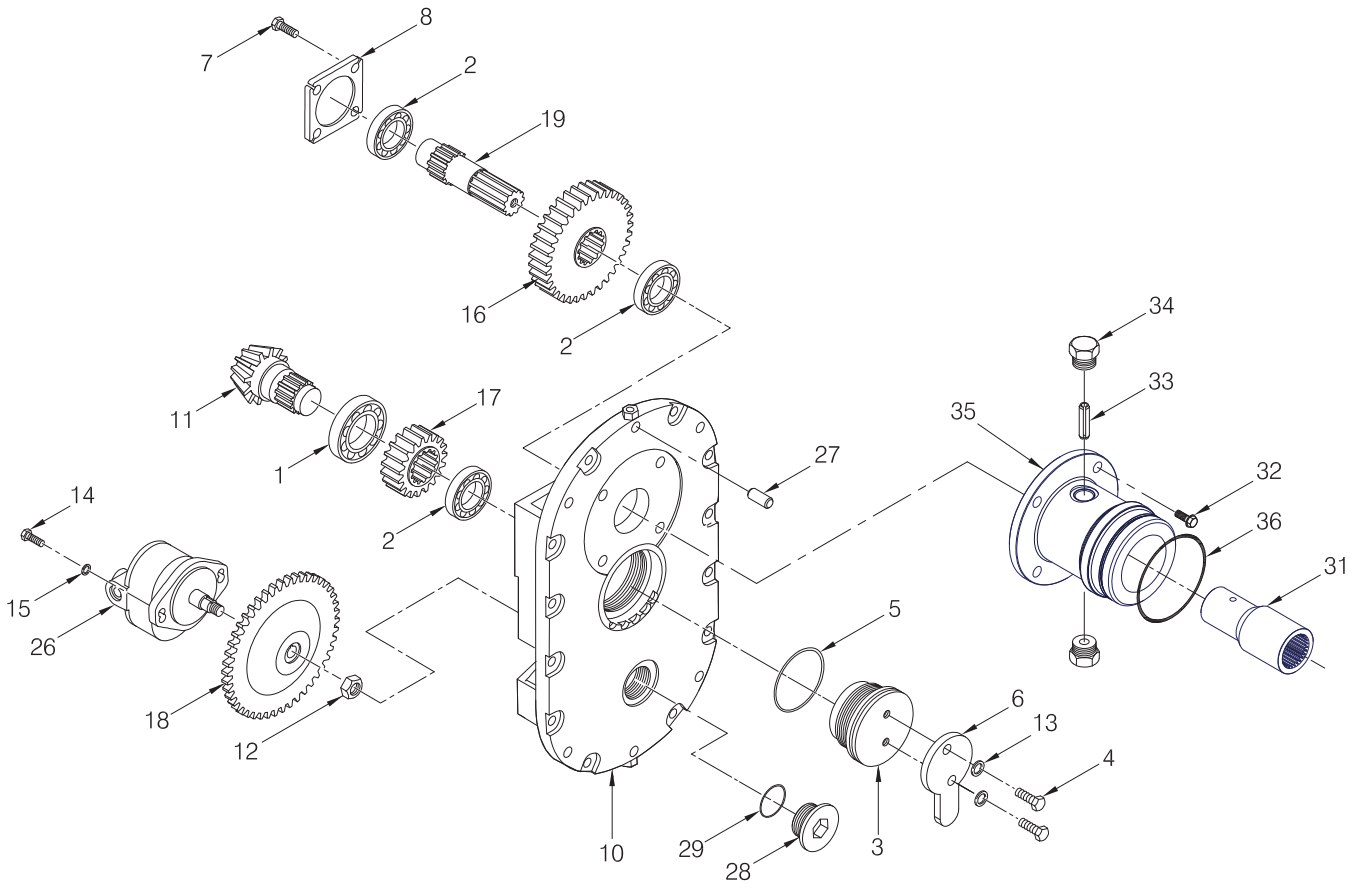
Item		Part No.	Description	Qty A	Qty B	Qty C
23	*j	2305655W	Gear	1	--	--
	*k	2307117W	Gear	1	--	--
	*l	2305656W	Gear	--	1	--
	*m	2307118W	Gear	--	1	--
	*n	2305657W	Gear	--	--	1
	*p	2307119W	Gear	--	--	1
29		2300646W	Shaft, Input	1	1	1
30		2300779W	Pilot, PTO	1	1	1
31		2302626W	Capscrew	4	4	4
32		2300645W	Retainer, Bearing	1	1	1
33		2302963W	Pump (3-66)	1	1	1
42		222734W	Pin	2	2	2
43		2304942W	Spacer	1	1	1

*a	Use 318702W Thread Lock
*b	Use 1324880W Adhesive/Sealant
*c	Last Used on S/N AW6G-1111
*d	First Used on S/N AW6G-1112
*e	Last Used on S/N AW6G-1149
*f	First Used on S/N AW6G-1150
*g	Last Used on S/N AW6G-1420
*h	First Used on S/N AW6G-1421
*j	Last Used on S/N AW6G-1220
*k	First Used on S/N AW6G-1221
*l	Last Used on S/N AW6G-1197
*m	First Used on S/N AW6G-1198
*n	Last Used on S/N AW6G-1214
*p	First Used on S/N AW6G-1215
*q	Use 383789W Adhesive/Sealant

High Input Arrangement

Caterpillar D6N (C47, C78, C81)
Last Used on S/N AW6G-1060
Page 1 of 2

Parts Service Gram	
Item	Gram
1, 10, 11	A1-A-22 (See Section 7 for details)



High Input Arrangement

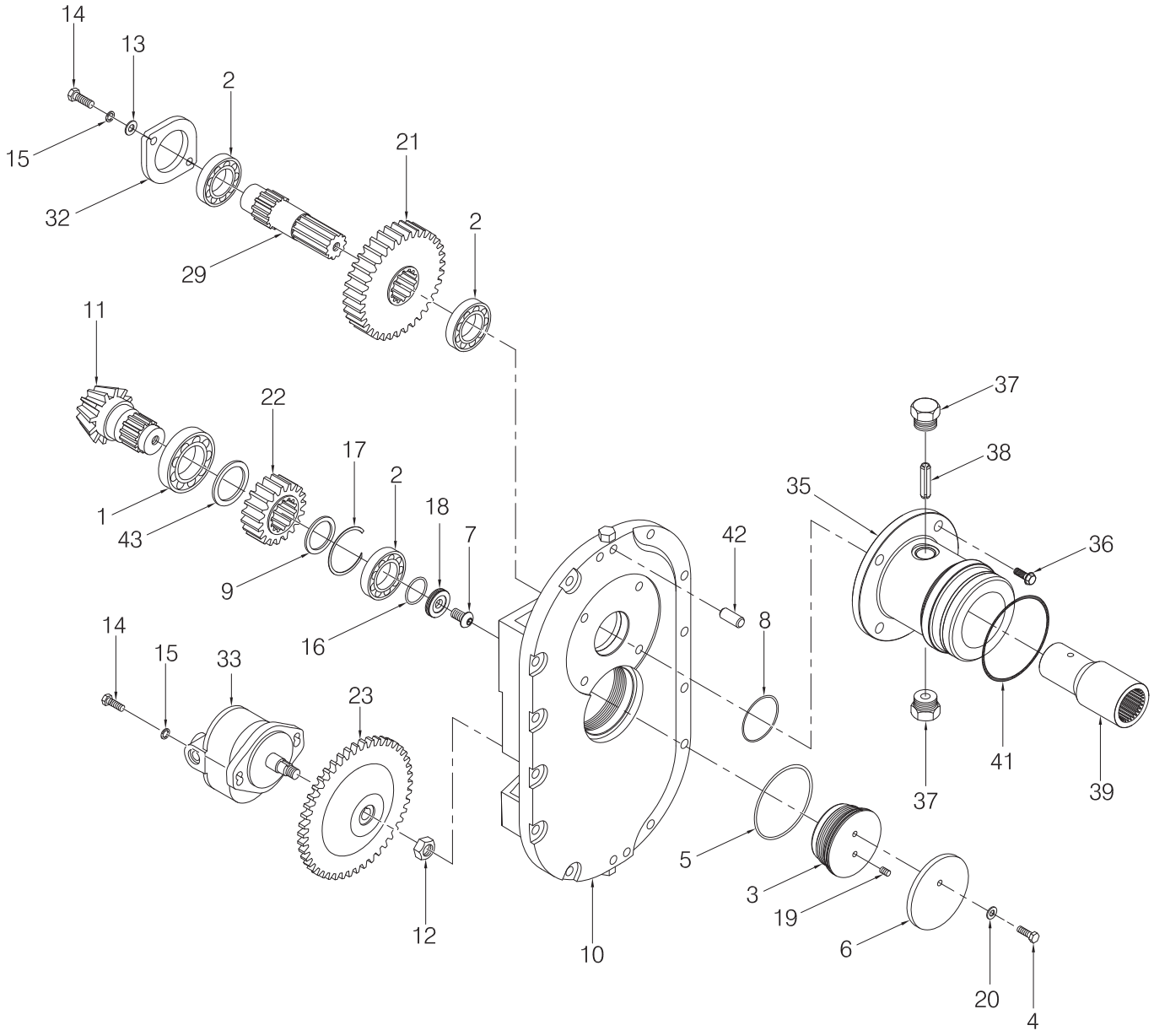
Caterpillar D6N (C47, C78, C81)
Last Used on S/N AW6G-1060
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item	Part No.	Description	Qty A	Qty B	Qty C
1	44310W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3	2302993W	Carrier, Pinion	1	1	1
4	16691W	Capscrew	2	2	2
5	39371W	O-Ring	1	1	1
6	2302492W	Keeper	1	1	1
7	194090W	Capscrew	4	4	4
8	2300645W	Retainer, Bearing	1	1	1
9	165035W	Seal	1	1	1
10	2302493W	Carrier, Input	1	1	1
11	2300624W	Gear, Bevel	1	1	1
12	138750W	Nut	1	1	1
13	15155W	Washer	2	2	2
14	16805W	Capscrew	2	2	2
15	15156W	Washer	2	2	2
16	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1
17	2300625W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300647W	Gear	--	--	1
18	2300654W	Gear	1	--	--
	2300747W	Gear	--	1	--
	2300748W	Gear	--	--	1
19	2300646W	Shaft, Input	1	1	1
26	- - - - - - -	Pump (3-65 & 3-66)	1	1	1
27	222734W	Pin	2	2	2
28	188210W	Fitting	1	1	1
29	16983W	. O-Ring	1	1	1
31	2305498W	Coupler	1	1	1
32	178402W	Capscrew	4	4	4
33	19929W	Pin	1	1	1
34	216590W	Fitting, O-Ring	2	2	2
35	2305497W	Pilot, PTO	1	1	1
36	15887W	O-Ring	1	1	1

High Input Arrangement

Caterpillar D6N (C47, C78, C81)
First Used on S/N AW6G-1061
Page 1 of 2



High Input Arrangement

Caterpillar D6N (C47, C78, C81)
First Used on S/N AW6G-1061
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

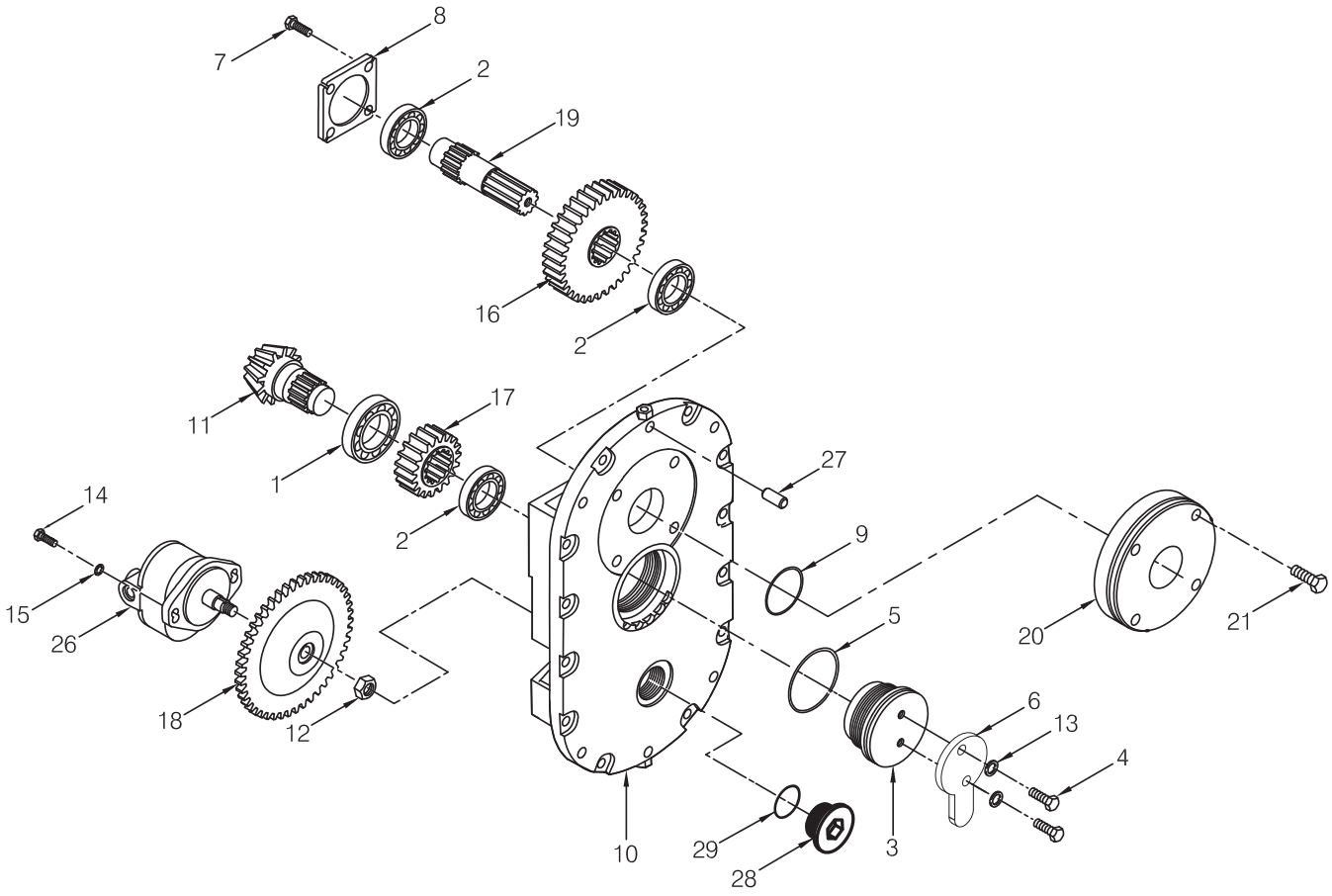
Item	Part No.	Description	Qty A	Qty B	Qty C
1 *e	44310W	Bearing	1	1	1
*f	41210W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3 *c	2305630W	Carrier, Pinion	1	1	1
*d	2306200W	Carrier, Pinion	1	1	1
4	2305631W	Capscrew	1	1	1
5	39371W	O-Ring	1	1	1
6	2305628W	Keeper	1	1	1
7 *a, *d, *g	220098W	Capscrew	1	1	1
8	165035W	Seal	1	1	1
9 *d, *e	2306201W	Spacer	1	1	1
9 *f	2306423W	Spacer	1	1	1
10 *e	2305629W	Carrier, Input	1	1	1
*f	2306561W	Carrier, Input	1	1	1
11 *e	2300624W	Gear, Bevel	1	1	1
*f, *g	2306564W	Gear, Bevel	1	1	1
*h	2307599W	Gear, Bevel	1	1	1
12 *q	221355W	Nut	1	1	1
13	15134W	Washer	2	2	2
14 *b	16805W	Capscrew	4	4	4
15	15156W	Washer, Lock	4	4	4
16 *d	2306202W	O-Ring	1	1	1
17 *d	2306203W	Ring, Snap	1	1	1
18 *d, *g	2306204W	Plate	1	1	1
19 *d	2306350W	Setscrew	1	1	1
20 *d	18515W	Washer	1	1	1
21	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1
22	2300625W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300647W	Gear	--	--	1
23 *j	2305655W	Gear	1	--	--
*k	2307117W	Gear	1	--	--
*l	2305656W	Gear	--	1	--
*m	2307118W	Gear	--	1	--
*n	2305657W	Gear	--	--	1
*p	2307119W	Gear	--	--	1
29	2300646W	Shaft, Input	1	1	1
32	2300645W	Retainer, Bearing	1	1	1
33	2302963W	Pump (3-66)	1	1	1
35	2305497W	Pilot, PTO	1	1	1
36	178402W	Capscrew	4	4	4
37	216590W	Fitting	2	2	2
38	19929W	Pin	1	1	1
39	2305498W	Coupler	1	1	1
41	15887W	O-Ring	1	1	1
42	222734W	Pin	2	2	2
43	2304942W	Spacer	1	1	1

*a	Use 318702W Thread Lock
*b	Use 1324880W Adhesive/Sealant
*c	Last Used on S/N AW6G-1111
*d	First Used on S/N AW6G-1112
*e	Last Used on S/N AW6G-1149
*f	First Used on S/N AW6G-1150
*g	Last Used on S/N AW6G-1420
*h	First Used on S/N AW6G-1421
*j	Last Used on S/N AW6G-1220
*k	First Used on S/N AW6G-1221
*l	Last Used on S/N AW6G-1220
*m	First Used on S/N AW6G-1221
*n	Last Used on S/N AW6G-1214
*p	First Used on S/N AW6G-1215
*q	Use 383789W Adhesive/Sealant

High Input Arrangement

Dresser/Dressta TD15E PS (H44), TD15E DD (H45);
TD15H Tier I PS (H46); TD15H Tier II, TD15M (H47)
Last Used on S/N AW6G-1060
Page 1 of 2

Parts Service Gram	
Item	Gram
1, 10, 11	A1-A-22 (See Section 7 for details)



High Input Arrangement

Dresser/Dressta TD15E PS (H44), TD15E DD (H45);
TD15H Tier I PS (H46); TD15H Tier II, TD15M (H47)
Last Used on S/N AW6G-1060
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

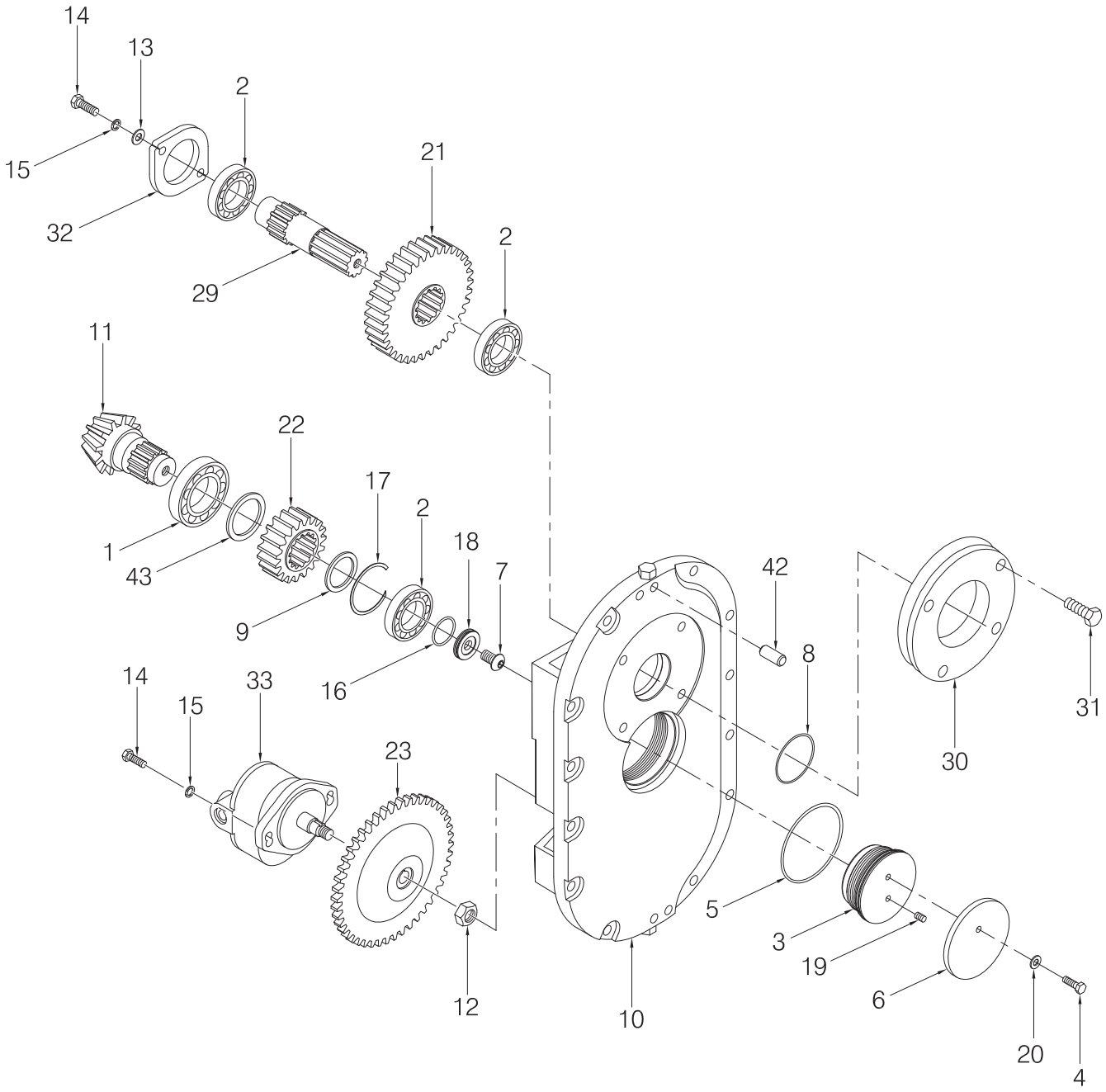
Item	Part No.	Description	Qty A	Qty B	Qty C
1	44310W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3	2302993W	Carrier, Pinion	1	1	1
4	16691W	Capscrew	2	2	2
5	39371W	O-Ring	1	1	1
6	2302492W	Keeper	1	1	1
7	194090W	Capscrew	4	4	4
8	2300645W	Retainer, Bearing	1	1	1
9	165035W	Seal	1	1	1
10	2302493W	Carrier, Input	1	1	1
11	2300624W	Gear, Bevel	1	1	1
12	138750W	Nut	1	1	1
13	15155W	Washer	2	2	2
14	16805W	Capscrew	2	2	2
15	15156W	Washer	2	2	2
16	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1

Item		Part No.	Description	Qty A	Qty B	Qty C
17		2300625W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300647W	Gear	--	--	1
18		2300654W	Gear	1	--	--
		2300747W	Gear	--	1	--
		2300748W	Gear	--	--	1
19		2300646W	Shaft, Input	1	1	1
20	*a	2300779W	Pilot, PTO	1	1	1
21		307788W	Capscrew	4	4	4
26		- - - - - - -	Pump (3-65 & 3-66)	1	1	1
27		222734W	Pin	2	2	2
28		188210W	Fitting	1	1	1
29		16983W	. O-Ring	1	1	1

*a Use 1324880W Adhesive/Sealant

High Input Arrangement

Dresser/Dressta TD15E PS (H44), TD15E DD (H45);
TD15H Tier I PS (H46); TD15H Tier II, TD15M (H47)
First Used on S/N AW6G-1061
Page 1 of 2



High Input Arrangement

Dresser/Dressta TD15E PS (H44), TD15E DD (H45);
TD15H Tier I PS (H46); TD15H Tier II, TD15M (H47)
First Used on S/N AW6G-1061
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item	Part No.	Description	Qty A	Qty B	Qty C
1 *e	44310W	Bearing	1	1	1
*f	41210W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3 *c	2305630W	Carrier, Pinion	1	1	1
*d	2306200W	Carrier, Pinion	1	1	1
4	2305631W	Capscrew	1	1	1
5	39371W	O-Ring	1	1	1
6	2305628W	Keeper	1	1	1
7 *a, *d, *g	220098W	Capscrew	1	1	1
8	165035W	Seal	1	1	1
9 *d, *e	2306201W	Spacer	1	1	1
*f	2306423W	Spacer	1	1	1
10 *e	2305629W	Carrier, Input	1	1	1
*f	2306561W	Carrier, Input	1	1	1
11 *e	2300624W	Gear, Bevel	1	1	1
*f, *g	2306564W	Gear, Bevel	1	1	1
*h	2307599W	Gear, Bevel	1	1	1
12 *q	221355W	Nut	1	1	1
13	15134W	Washer	2	2	2
14 *b	16805W	Capscrew	4	4	4
15	15156W	Washer, Lock	4	4	4
16 *d	2306202W	O-Ring	1	1	1
17 *d	2306203W	Ring, Snap	1	1	1
18 *d, *g	2306204W	Plate	1	1	1
19 *d	2306350W	Setscrew	1	1	1
20 *d	18515W	Washer	1	1	1
21	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1
22	2300625W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300647W	Gear	--	--	1

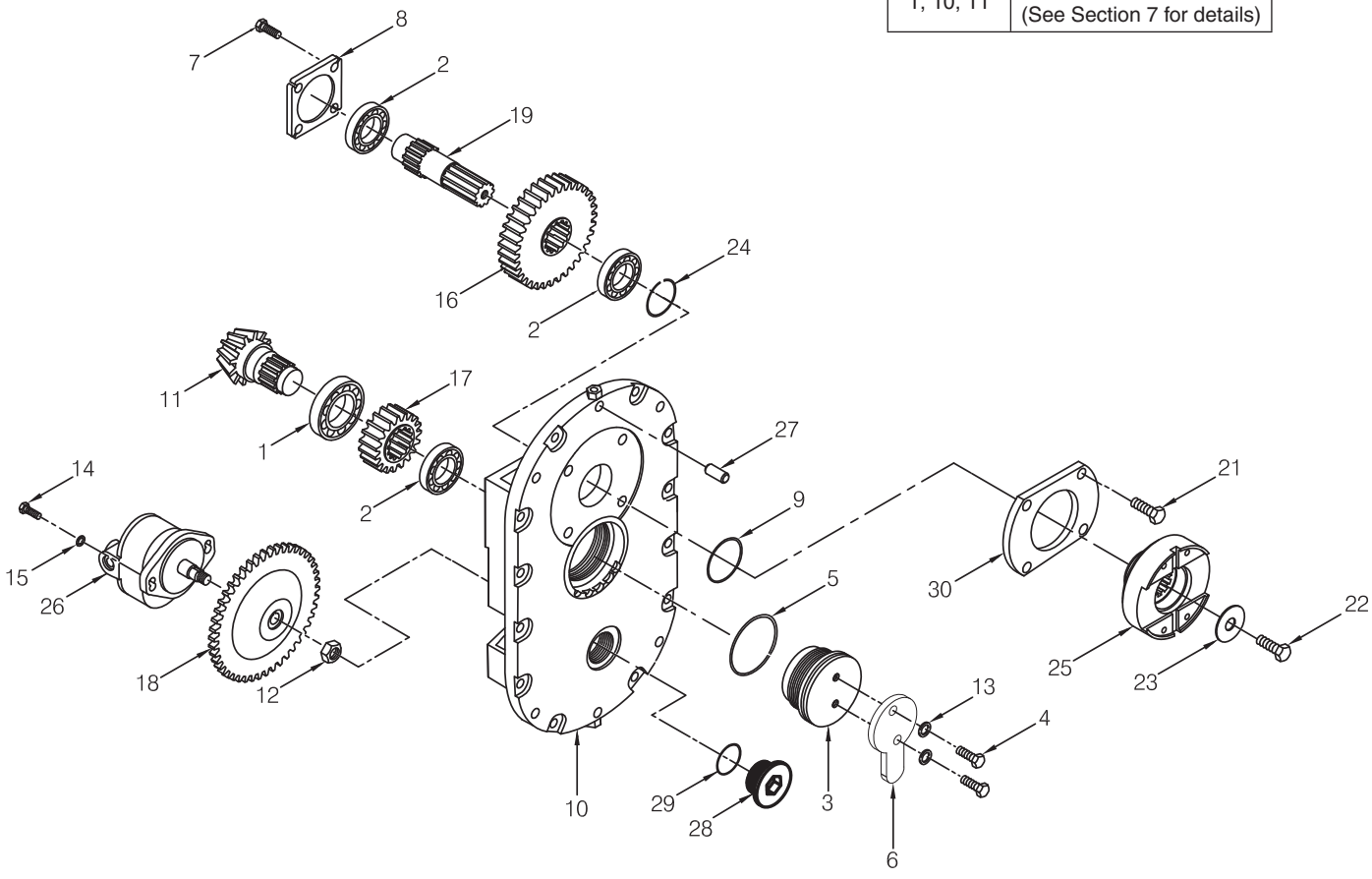
Item	Part No.	Description	Qty A	Qty B	Qty C
23 *j	2305655W	Gear	1	--	--
*k	2307117W	Gear	1	--	--
*l	2305656W	Gear	--	1	--
*m	2307118W	Gear	--	1	--
*n	2305657W	Gear	--	--	1
*p	2307119W	Gear	--	--	1
29	2300646W	Shaft, Input	1	1	1
30	2300779W	Pilot, PTO	1	1	1
31	2302626W	Capscrew	4	4	4
32	2300645W	Retainer, Bearing	1	1	1
33	2302963W	Pump (3-66)	1	1	1
42	222734W	Pin	2	2	2
43	2304942W	Spacer	1	1	1

*a Use 318702W Thread Lock
*b Use 1324880W Adhesive/Sealant
*c Last Used on S/N AW6G-1111
*d First Used on S/N AW6G-1112
*e Last Used on S/N AW6G-1149
*f First Used on S/N AW6G-1150
*g Last Used on S/N AW6G-1420
*h First Used on S/N AW6G-1421
*j Last Used on S/N AW6G-1220
*k First Used on S/N AW6G-1221
*l Last Used on S/N AW6G-1197
*m First Used on S/N AW6G-1198
*n First Used on S/N AW6G-1214
*p First Used on S/N AW6G-1215
*q Use 383789W Adhesive/Sealant

High Input Arrangement

John Deere 750B w/o Cab (E41); 850B w/ Cab (E42);
850B w/o Cab (E43); 750B w/ Cab (E44)
Last Used on S/N AW6G-1060
Page 1 of 2

Parts Service Gram	
Item	Gram
1, 10, 11	A1-A-22 (See Section 7 for details)



High Input Arrangement

John Deere 750B w/o Cab (E41); 850B w/ Cab (E42);
850B w/o Cab (E43); 750B w/ Cab (E44)
Last Used on S/N AW6G-1060
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

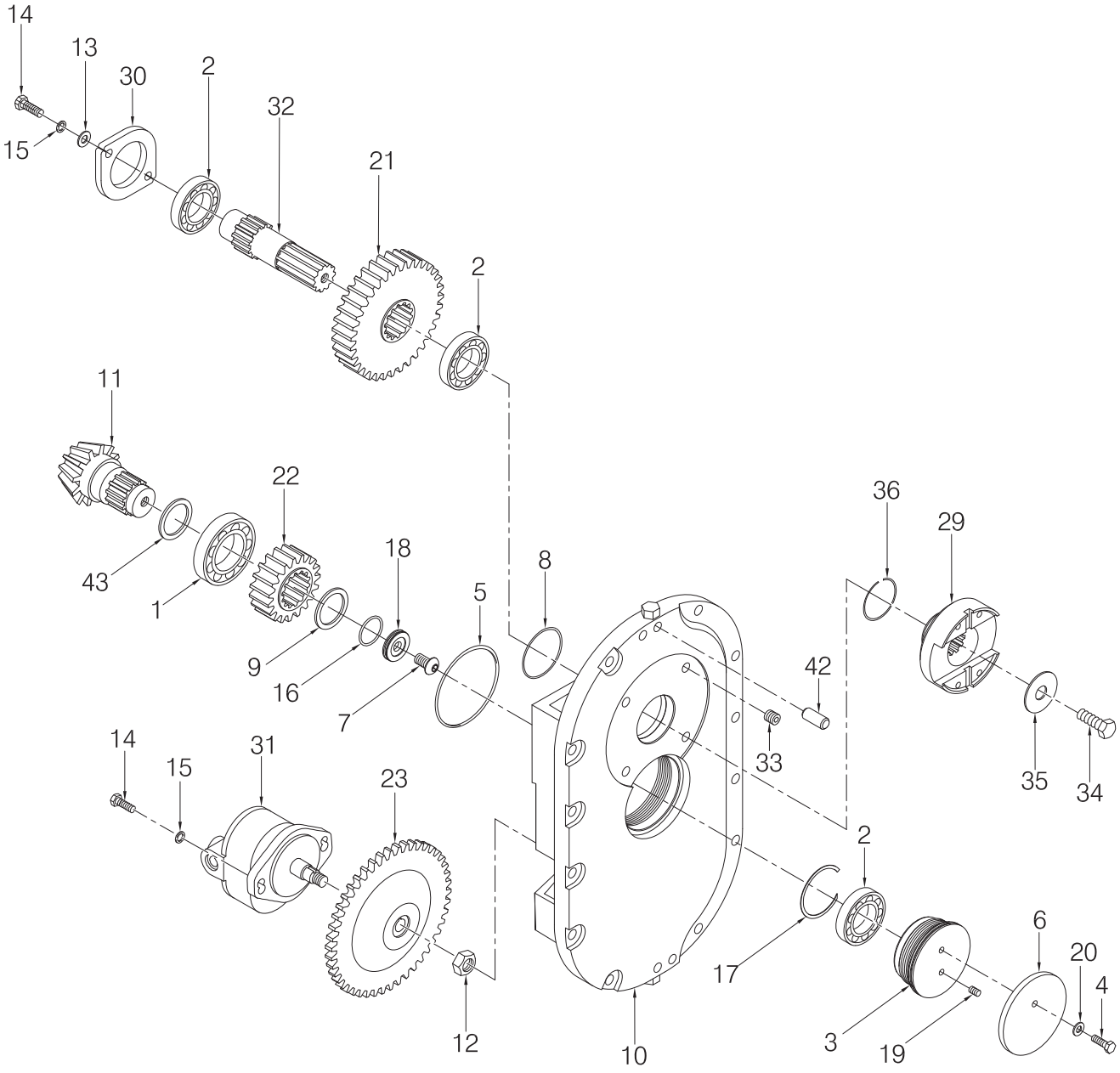
Item	Part No.	Description	Qty A	Qty B	Qty C
1	44310W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3	2302993W	Carrier, Pinion	1	1	1
4	16691W	Capscrew	2	2	2
5	39371W	O-Ring	1	1	1
6	2302492W	Keeper	1	1	1
7	194090W	Capscrew	4	4	4
8	2300645W	Retainer, Bearing	1	1	1
9	165035W	Seal	1	1	1
10	2302493W	Carrier, Input	1	1	1
11	2300624W	Gear, Bevel	1	1	1
12	138750W	Nut	1	1	1
13	15155W	Washer	2	2	2
14	16805W	Capscrew	2	2	2
15	15156W	Washer	2	2	2
16	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1

Item		Part No.	Description	Qty A	Qty B	Qty C
17		2300625W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300647W	Gear	--	--	1
18		2300654W	Gear	1	--	--
		2300747W	Gear	--	1	--
		2300748W	Gear	--	--	1
19		2300798W	Shaft, Input	--	1	1
21		178402W	Capscrew	4	4	4
22	*a	16829W	Capscrew	--	1	1
23	*a	2301627W	Washer	--	1	1
24		122400W	Ring, Snap	--	1	1
25		2300797W	Yoke	--	1	1
26		- - - - - - -	Pump (3-65)	1	1	1
27		222734W	Pin	2	2	2
28		188210W	Fitting	1	1	1
29		16983W	. O-Ring	1	1	1
30		2300799W	Retainer	--	1	1

*a Use 264134W Adhesive/Sealant

High Input Arrangement

John Deere 750B w/o Cab (E41); 850B w/ Cab (E42);
850B w/o Cab (E43); 750B w/ Cab (E44)
First Used on S/N AW6G-1061
Page 1 of 2



High Input Arrangement

John Deere 750B w/o Cab (E41); 850B w/ Cab (E42);
850B w/o Cab (E43); 750B w/ Cab (E44)
First Used on S/N AW6G-1061
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item	Part No.	Description	Qty A	Qty B	Qty C
1 *g	44310W	Bearing	1	1	1
*h	41210W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3 *e	2305630W	Carrier, Pinion	1	1	1
*f	2306200W	Carrier, Pinion	1	1	1
4	2305631W	Capscrew	1	1	1
5	39371W	O-Ring	1	1	1
6	2305628W	Keeper	1	1	1
7 *a, *f, *j	220098W	Capscrew	1	1	1
8	165035W	Seal	1	1	1
9 *f, *g	2306201W	Spacer	1	1	1
*h	2306423W	Spacer	1	1	1
10 *g	2305629W	Carrier, Input	1	1	1
*h	2306561W	Carrier, Input	1	1	1
11 *f	2300624W	Gear, Bevel	1	1	1
*h, *j	2306564W	Gear, Bevel	1	1	1
*k	2307599W	Gear, Bevel	1	1	1
12 *c	221355W	Nut	1	1	1
13	15134W	Washer	2	2	2
14 *b	16805W	Capscrew	4	4	4
15	15156W	Washer, Lock	4	4	4
16 *f	2306202W	O-Ring	1	1	1
17 *f	2306203W	Ring, Snap	1	1	1
18 *f	2306204W	Plate	1	1	1
19 *f	2306350W	Setscrew	1	1	1
20 *f	18515W	Washer	1	1	1
21	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1
22	2300625W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300647W	Gear	--	--	1

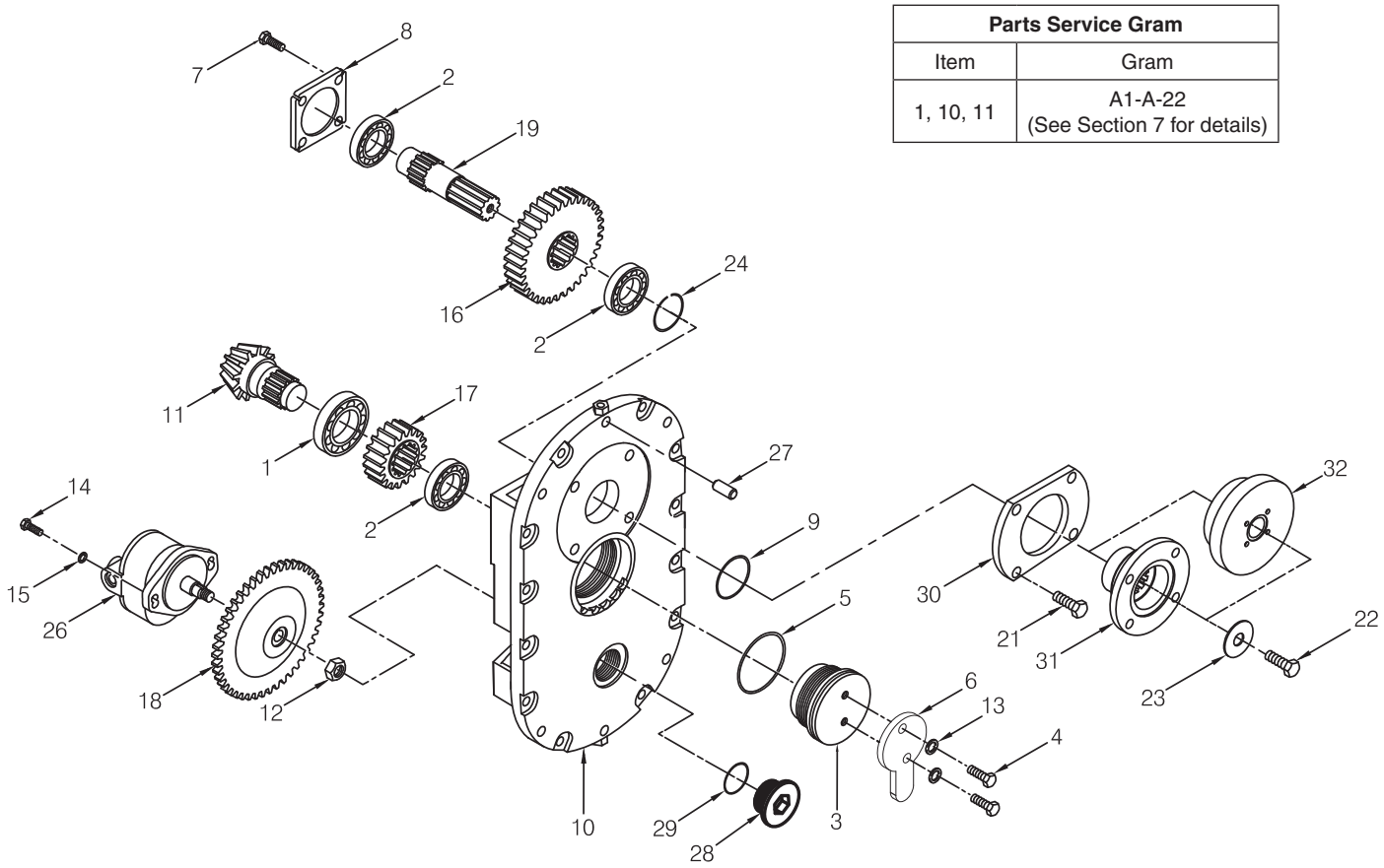
Item	Part No.	Description	Qty A	Qty B	Qty C
23 *l	2305655W	Gear	1	--	--
*m	2307117W	Gear	1	--	--
*n	2305656W	Gear	--	1	--
*p	2307118W	Gear	--	1	--
*q	2305657W	Gear	--	--	1
*r	2307119W	Gear	--	--	1
29	2300797W	Yoke	1	1	1
30	2300645W	Retainer, Bearing	1	1	1
31	2302963W	Pump (3-66)	1	1	1
32	2300798W	Shaft, Input	1	1	1
33 *c	222648W	Setscrew	4	4	4
34 *d	16829W	Capscrew	1	1	1
35	2301627W	Washer	1	1	1
36	122400W	Ring, Snap	1	1	1
42	222734W	Pin	2	2	2
43	2304942W	Spacer	1	1	1

*a	Use 318702W Thread Lock
*b	Use 1324880W Adhesive/Sealant
*c	Use 383789W Adhesive/Sealant
*d	Use 264134W Adhesive/Sealant
*e	Last Used on S/N AW6G-1111
*f	First Used on S/N AW6G-1112
*g	Last Used on S/N AW6G-1149
*h	First Used on S/N AW6G-1150
*j	Last Used on S/N AW6G-1420
*k	First Used on S/N AW6G-1421
*l	Last Used on S/N AW6G-1220
*m	First Used on S/N AW6G-1221
*n	Last Used on S/N AW6G-1197
*p	First Used on S/N AW6G-1198
*q	Last Used on S/N AW6G-1214
*r	First Used on S/N AW6G-1215

High Input Arrangement

John Deere 750C Series I & II (E45);
850C Series I & II (E46)
Last Used on S/N AW6G-1060
Page 1 of 2

Parts Service Gram	
Item	Gram
1, 10, 11	A1-A-22 (See Section 7 for details)



High Input Arrangement

John Deere 750C Series I & II (E45);
850C Series I & II (E46)
Last Used on S/N AW6G-1060
Page 2 of 2

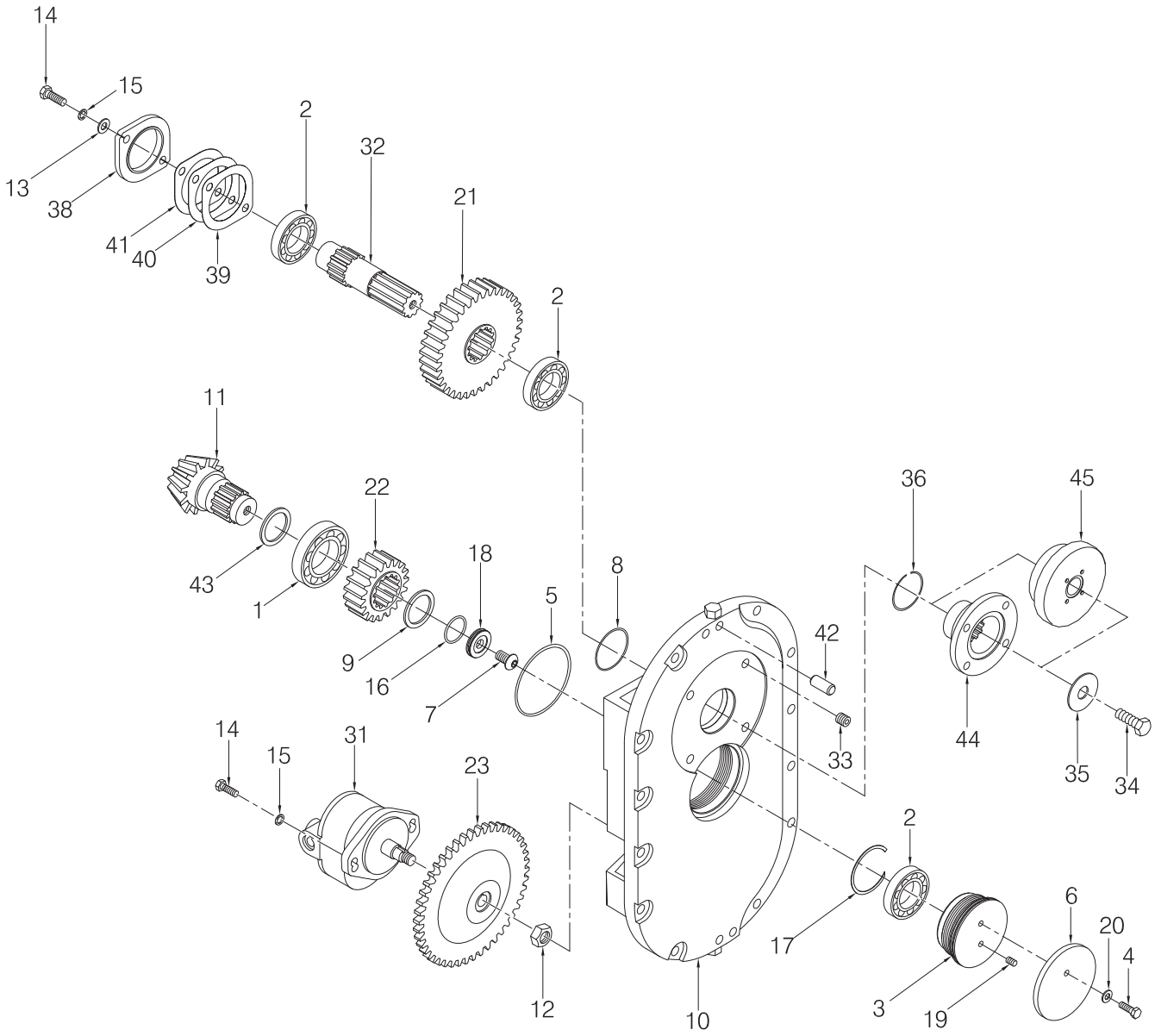
A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item	Part No.	Description	Qty A	Qty B	Qty C
1	44310W	Bearing	1	1	1
2	44308W	Bearing	3	3	3
3	2302993W	Carrier, Pinion	1	1	1
4	16691W	Capscrew	2	2	2
5	39371W	O-Ring	1	1	1
6	2302492W	Keeper	1	1	1
7	194090W	Capscrew	4	4	4
8	2300645W	Retainer, Bearing	1	1	1
9	165035W	Seal	1	1	1
10	2302493W	Carrier, Input	1	1	1
11	2300624W	Gear, Bevel	1	1	1
12	138750W	Nut	1	1	1
13	15155W	Washer	2	2	2
14	16805W	Capscrew	2	2	2
15	15156W	Washer	2	2	2
16	2300647W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300625W	Gear	--	--	1
17	2300625W	Gear	1	--	--
	2300749W	Gear	--	1	--
	2300647W	Gear	--	--	1
18	2300654W	Gear	1	--	--
	2300747W	Gear	--	1	--
	2300748W	Gear	--	--	1
19	2300798W	Shaft, Input	--	1	1
21	178402W	Capscrew	4	4	4
22 *a	16829W	Capscrew	--	1	1
23 *a	2301627W	Washer	--	1	1
24	122400W	Ring, Snap	--	1	1
26	- - - - - - -	Pump (3-65)	1	1	1
27	222734W	Pin	2	2	2
28	188210W	Fitting	1	1	1
29	16983W	. O-Ring	1	1	1
30	2300799W	Retainer	--	1	1
31 *b	2301533W	Flange, Winch End	--	1	1
32 *c	2303962W	Flange, Damped	--	1	1

*a Use 264134W Adhesive/Sealant
*b Last Used on S/N AW6G-1043
*c First Used on S/N AW6G-1044

High Input Arrangement

John Deere 750C Series I & II (E45)
First Used on S/N AW6G-1061
Page 1 of 2



High Input Arrangement

John Deere 750C Series I & II (E45)
First Used on S/N AW6G-1061
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

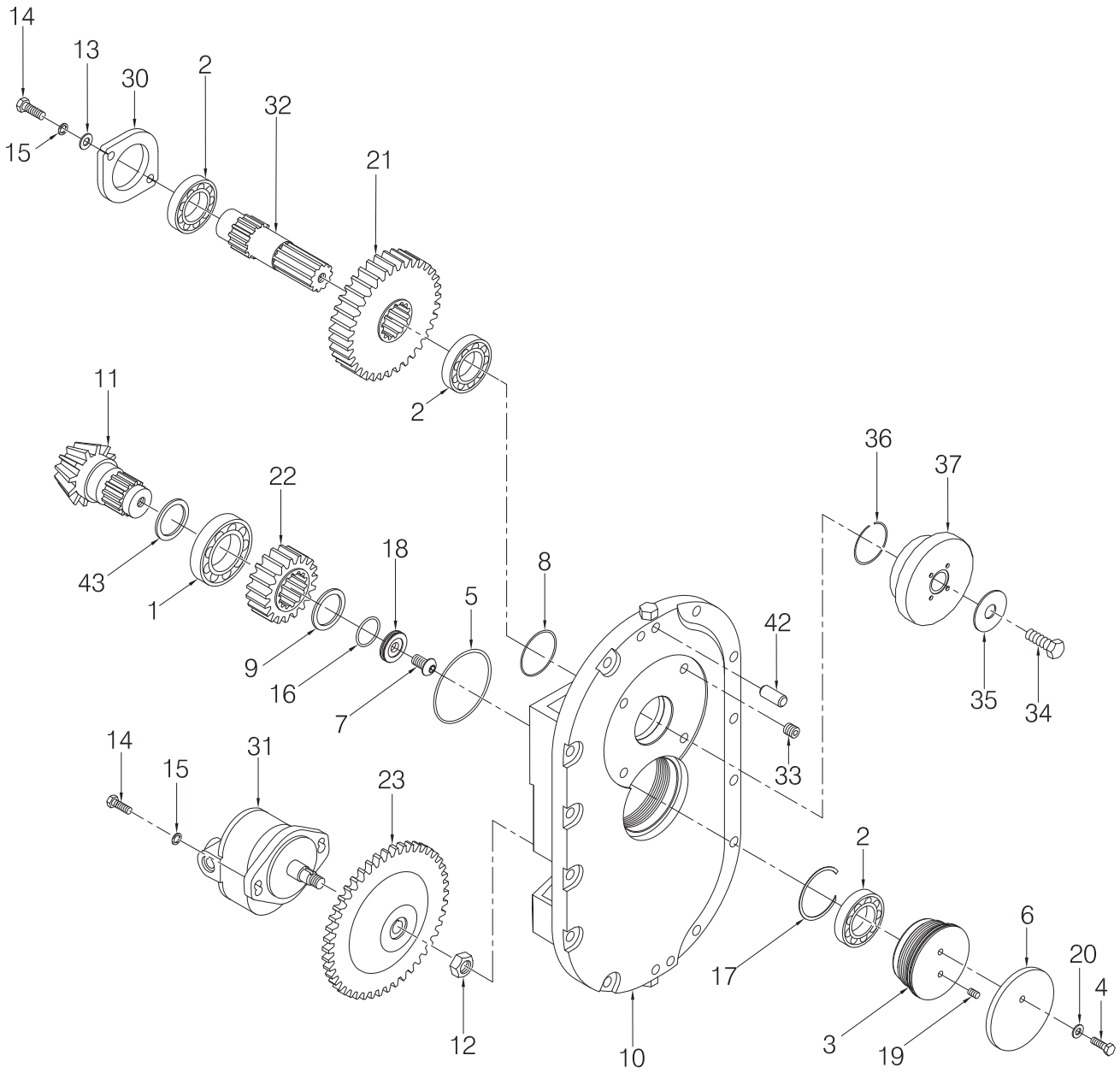
Item		Part No.	Description	Qty A	Qty B	Qty C
1	*g	44310W	Bearing	1	1	1
	*h	41210W	Bearing	1	1	1
2		44308W	Bearing	3	3	3
3	*e	2305630W	Carrier, Pinion	1	1	1
	*f	2306200W	Carrier, Pinion	1	1	1
4		2305631W	Capscrew	1	1	1
5		39371W	O-Ring	1	1	1
6		2305628W	Keeper	1	1	1
7	*a, *f, *i	220098W	Capscrew	1	1	1
8		165035W	Seal	1	1	1
9	*f, *g	2306201W	Spacer	1	1	1
	*h	2306423W	Spacer	1	1	1
10	*g	2305629W	Carrier, Input	1	1	1
	*h	2306561W	Carrier, Input	1	1	1
11	*g	2300624W	Gear, Bevel	1	1	1
	*h,*i	2306564W	Gear, Bevel	1	1	1
	*j	2307599W	Gear, Bevel	1	1	1
12	*c	221355W	Nut	1	1	1
13		15134W	Washer	2	2	2
14	*b	16805W	Capscrew	4	4	4
15		15156W	Washer, Lock	4	4	4
16	*f	2306202W	O-Ring	1	1	1
17	*f	2306203W	Ring, Snap	1	1	1
18	*f	2306204W	Plate	1	1	1
19	*f	2306350W	Setscrew	1	1	1
20	*f	18515W	Washer	1	1	1
21		2300647W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300625W	Gear	--	--	1
22		2300625W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300647W	Gear	--	--	1
23	*k	2305655W	Gear	1	--	--
	*l	2307117W	Gear	1	--	--
	*m	2305656W	Gear	--	1	--
	*n	2307118W	Gear	--	1	--
	*p	2305657W	Gear	--	--	1
	*q	2307119W	Gear	--	--	1

Item		Part No.	Description	Qty A	Qty B	Qty C
31		2302963W	Pump (3-66)	1	1	1
32		2300798W	Shaft, Input	1	1	1
33	*c	222648W	Setscrew	4	4	4
34	*d	16829W	Capscrew	1	1	1
35		2301627W	Washer	1	1	1
36		122400W	Ring, Snap	1	1	1
38	*f	2306215W	Retainer, Bearing	1	1	1
39	*f	2306216W	Shim .005	AR	AR	AR
40	*f	2306217W	Shim .007	AR	AR	AR
41	*f	2306218W	Shim .020	AR	AR	AR
42		222734W	Pin	2	2	2
43		2304942W	Spacer	1	1	1
44	*e	2303962W	Flange, Damped	1	1	1
45	*f	2301553W	Flange, Winch End	1	1	1

*a	Use 318702W Thread Lock
*b	Use 1324880W Adhesive/Sealant
*c	Use 383789W Adhesive/Sealant
*d	Use 264134W Adhesive
*e	Last Used on S/N AW6G-1111
*f	First Used on S/N AW6G-1112
*g	Last Used on S/N AW6G-1149
*h	First Used on S/N AW6G-1150
*i	Last Used on S/N AW6G-1420
*j	First Used on S/N AW6G-1421
*k	Last Used on S/N AW6G-1220
*l	First Used on S/N AW6G-1221
*m	Last Used on S/N AW6G-1197
*n	First Used on S/N AW6G-1198
*p	Last Used on S/N AW6G-1214
*q	First Used on S/N AW6G-1215

High Input Arrangement

John Deere 850C Series I & II (E46)
First Used on S/N AW6G-1061
Page 1 of 2



High Input Arrangement

John Deere 850C Series I & II (E46)
First Used on S/N AW6G-1061
Page 2 of 2

A - 45:1 & 56:1
B - 83:1 & 103:1
C - 153:1

Item		Part No.	Description	Qty A	Qty B	Qty C
1	*g	44310W	Bearing	1	1	1
	*h	41210W	Bearing	1	1	1
2		44308W	Bearing	3	3	3
3	*e	2305630W	Carrier, Pinion	1	1	1
	*f	2306200W	Carrier, Pinion	1	1	1
4		2305631W	Capscrew	1	1	1
5		39371W	O-Ring	1	1	1
6		2305628W	Keeper	1	1	1
7	*a, *f, *i	220098W	Capscrew	1	1	1
8		165035W	Seal	1	1	1
9	*f, *g	2306201W	Spacer	1	1	1
	*h	2306423W	Spacer	1	1	1
10	*g	2305629W	Carrier, Input	1	1	1
	*j	2306561W	Carrier, Input	1	1	1
11	*g	2300624W	Gear, Bevel	1	1	1
	*h,*i	2306564W	Gear, Bevel	1	1	1
	*j	2307599W	Gear, Bevel	1	1	1
12	*c	221355W	Nut	1	1	1
13		15134W	Washer	2	2	2
14	*b	16805W	Capscrew	4	4	4
15		15156W	Washer, Lock	4	4	4
16	*f	2306202W	O-Ring	1	1	1
17	*f	2306203W	Ring, Snap	1	1	1
18	*f, *i	2306204W	Plate	1	1	1
19	*f	2306350W	Setscrew	1	1	1
20	*f	18515W	Washer	1	1	1
21		2300647W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300625W	Gear	--	--	1
22		2300625W	Gear	1	--	--
		2300749W	Gear	--	1	--
		2300647W	Gear	--	--	1

Item		Part No.	Description	Qty A	Qty B	Qty C
23	*k	2305655W	Gear	1	--	--
	*l	2307117W	Gear	1	--	--
	*m	2305656W	Gear	--	1	--
	*n	2307118W	Gear	--	1	--
	*p	2305657W	Gear	--	--	1
	*q	2307119W	Gear	--	--	1
30		2300645W	Retainer, Bearing	1	1	1
31		2302963W	Pump (3-66)	1	1	1
32		2300798W	Shaft, Input	1	1	1
33	*c	222648W	Setscrew	4	4	4
34	*d	16829W	Capscrew	1	1	1
35		2301627W	Washer	1	1	1
36		122400W	Ring, Snap	1	1	1
37		2301533W	Flange, Winch End	1	1	1
42		222734W	Pin	2	2	2
43		2304942W	Spacer	1	1	1

*a	Use 318702W Thread Lock
*b	Use 1324880W Adhesive/Sealant
*c	Use 383789W Adhesive/Sealant
*d	Use 264134W Adhesive/Sealant
*e	Last Used on S/N AW6G-1111
*f	First Used on S/N AW6G-1112
*g	Last Used on S/N AW6G-1149
*h	First Used on S/N AW6G-1150
*i	Last Used on S/N AW6G-1420
*j	First Used on S/N AW6G-1421
*k	Last Used on S/N AW6G-1220
*l	First Used on S/N AW6G-1221
*m	Last Used on S/N AW6G-1197
*n	First Used on S/N AW6G-1198
*p	Last Used on S/N AW6G-1214
*q	First Used on S/N AW6G-1215

Clutch Group

Last Used on S/N AW6G-1204

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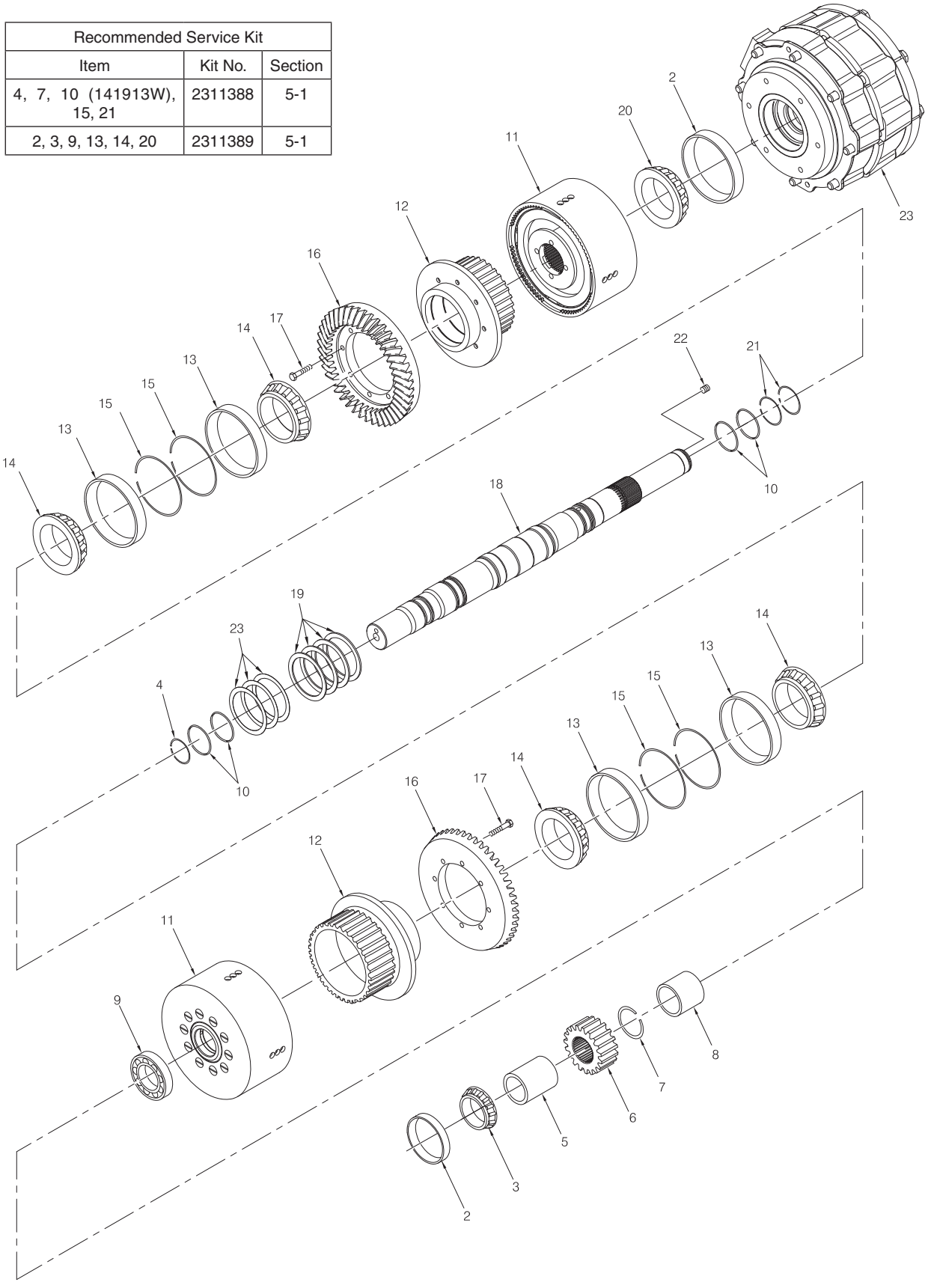
Recommended Service Kit		
Item	Kit No.	Section
4, 7, 10 (141913W), 15, 21	2311388	5-1
2, 3, 9, 13, 14, 20	2311389	5-1



Clutch Group

Last Used on S/N AW6G-1204

Item		Part No.	Description	Qty
2		2300668W	Cup, Bearing	2
3		2300669W	Cone, Bearing	1
4		219070W	Ring, Seal	1
5		2300612W	Spacer	1
6		2300613W	Gear, Clutch Shaft	1
7		58924W	Snap	1
8		2300634W	Spacer	1
9		43211W	Bearing	1
10		141913W	O-Ring	4
	*a	59229W	O-Ring	4
11		2300707W	Assembly, Clutch (2-26)	2
12		2300606W	Hub, Clutch	2
13		2300671W	Cup, Bearing	4
14		2300672W	Cone, Bearing	4
15		184818W	Ring, Snap	4
16		2300610W	Gear, Bevel	2
17		246769W	Capscrew	16
18		2300609W	Shaft	1
20		2300673W	Cone, Bearing	1
21		2300643W	Ring, Seal	2
22		15483W	Fitting, Pipe	1
23		2300708W	Brake Arrangement	1
24		2306398W	Shim .005	AR
25		2306399W	Shim .007	AR
26		2306400W	Shim .020	AR

*a Included in Cold-Weather Seal Package P/N 2305406W

Clutch Group

First Used on S/N AW6G-1205

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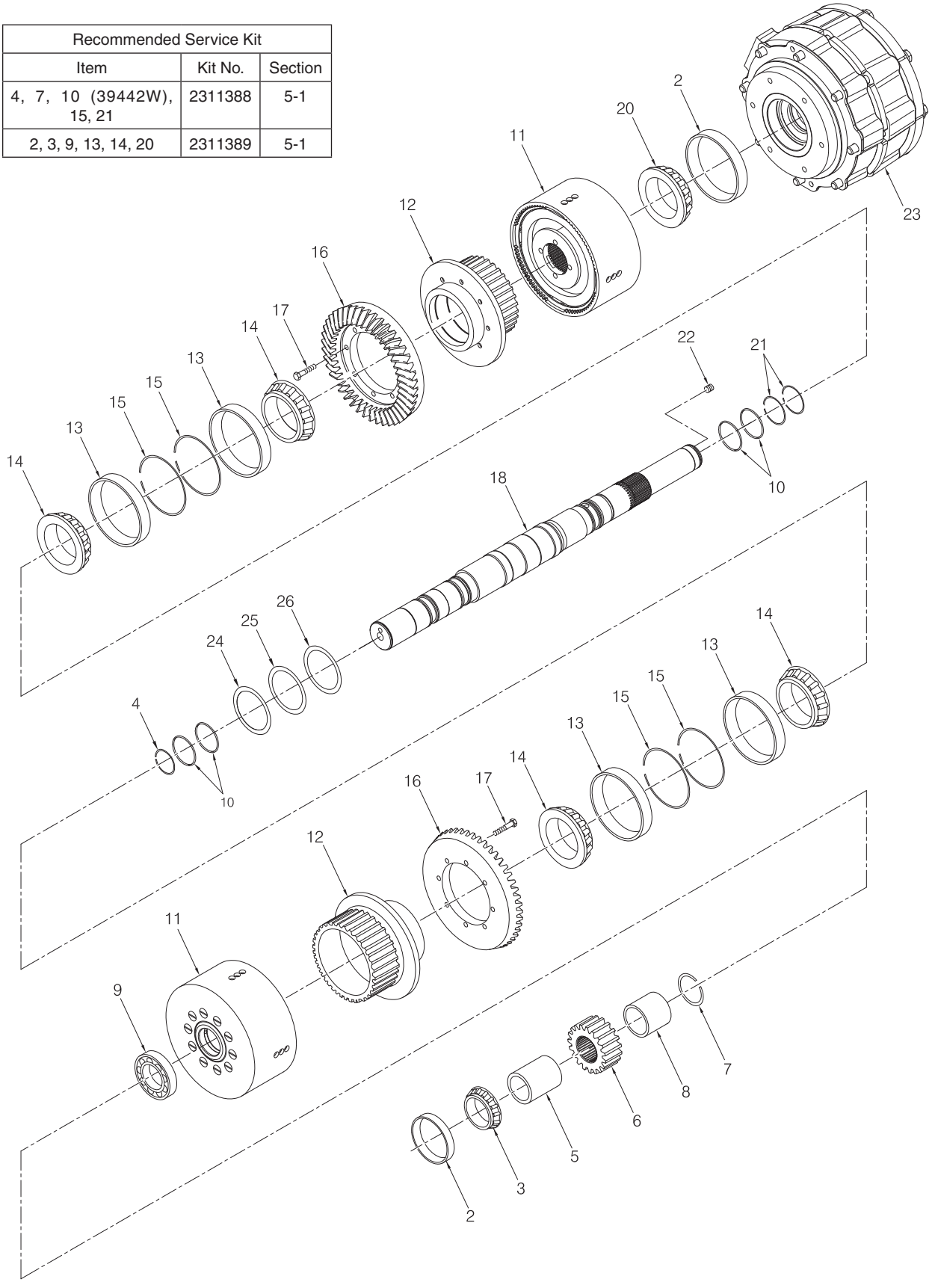
Recommended Service Kit		
Item	Kit No.	Section
4, 7, 10 (39442W), 15, 21	2311388	5-1
2, 3, 9, 13, 14, 20	2311389	5-1



Clutch Group

First Used on S/N AW6G-1205

Item	Part No.	Description	Qty
2	2300668W	Cup, Bearing	2
3	2300669W	Cone, Bearing	1
4	219070W	Ring, Seal	1
5	2300612W	Spacer	1
6	2300613W	Gear, Clutch Shaft	1
7	58924W	Snap	1
8	2300634W	Spacer	1
9	43211W	Bearing	1
10	39442W	O-Ring	4
11	2300707W	Assembly, Clutch (2-27)	2
12	2300606W	Hub, Clutch	2
13	2300671W	Cup, Bearing	4
14	2300672W	Cone, Bearing	4
15	184818W	Ring, Snap	4
16	2300610W	Gear, Bevel	2
17	246769W	Capscrew	16
18	2307029W	Shaft	1
20	2300673W	Cone, Bearing	1
21	2300643W	Ring, Seal	2
22	15483W	Fitting, Pipe	1
23	2300708W	Brake Arrangement	1
24 *a	2306398W	Shim .005	AR
25 *a	2306399W	Shim .007	AR
26 *a	2306400W	Shim .020	AR

*a Use Combination of Shims to Set Ring Gear Mounting Distance to +/-0.001".

Clutch Assembly

Last Used on S/N AW6G-1204

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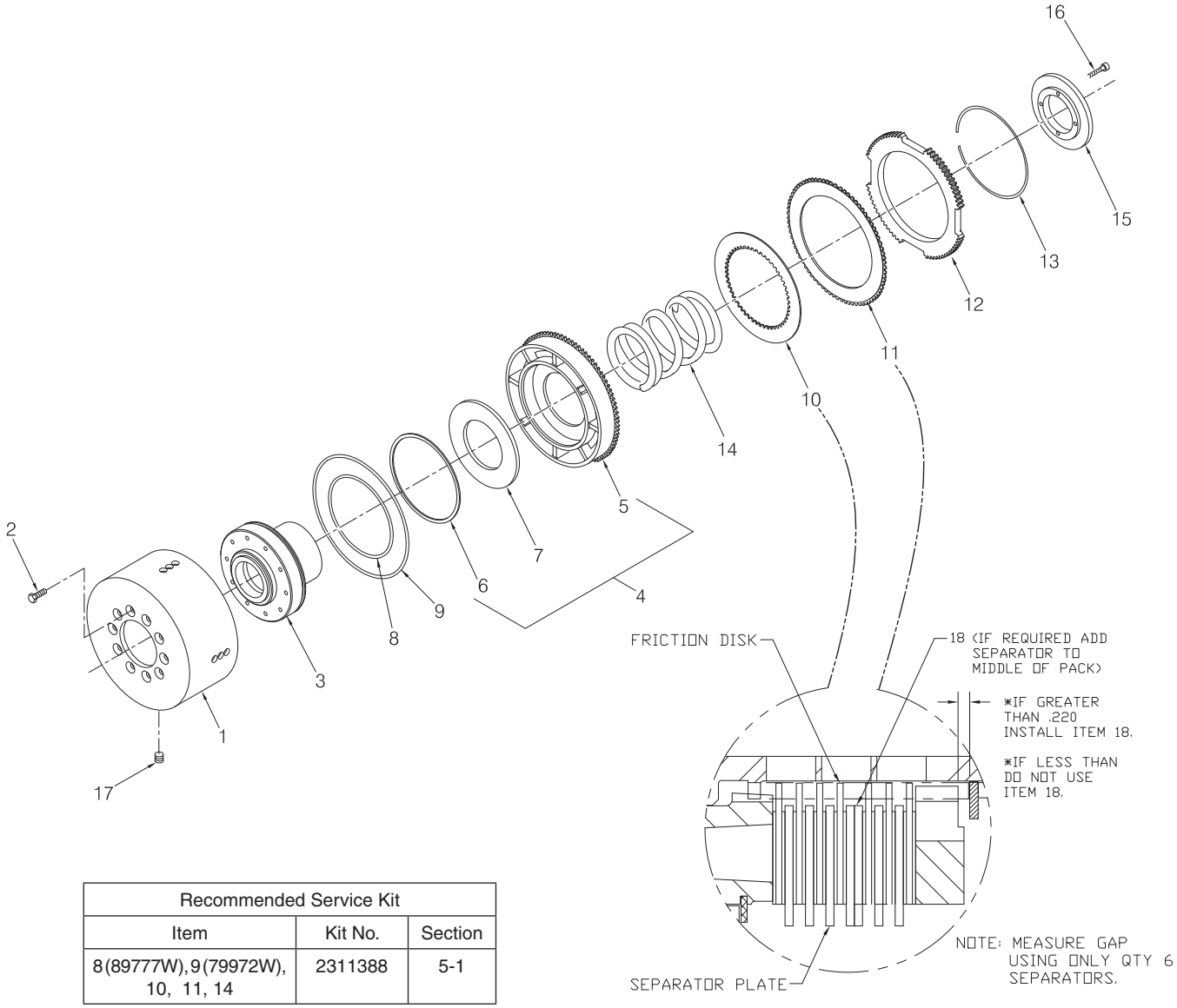

Recommended Service Kit		
Item	Kit No.	Section
8(89777W),9(79972W), 10, 11, 14	2311388	5-1

Clutch Assembly

Last Used on S/N AW6G-1204

Item		Part No.	Description	Qty
		2300707W	**Assembly, Clutch**	**1**
1	*b	2300602W	. Assembly, Clutch Spider	1
	*c	2305072W	. Assembly, Clutch Spider	1
2	*c	295752W	. . Capscrew	10
	*b	2300603W	. . Hub	1
3	*c,*d	2304978W	. . Hub	1
4		2300604W	. Assembly, Piston	1
5	*c	2305607W	. . Piston	1
6	*c	2305609W	. . Ring, Retaining	1
7	*c	2305608W	. . Plate, Spring Reaction	1
8	*a	89777W	. O-Ring	1
	*e	15893W	. O-Ring	1
9	*a	79972W	. O-Ring	1
	*e	113586W	. O-Ring	1
10	*a	261542W	. Plate, Separator	6
11	*a	328715W	. Disc, Friction	7
12		2300618W	. Plate, Clutch	1
13		2300670W	. Ring, Snap	1
14	*a	2300619W	. Spring	1
15		2300608W	. Spring, Retainer	1
16		16338W	. Capscrew	4
17	*b	15483W	. Fitting, Pipe	1
18		261542W	. Plate, Separator (See Detail)	1

*a Included in 2302774W Service Kit
*b Last Used S/N AW6G-1064
*c First Used S/N AW6G-1065
*d Use 318702W Thread Lock
*e Included in Cold-Weather Seal Package P/N 2305406W

Clutch Assembly

First Used on S/N AW6G-1205

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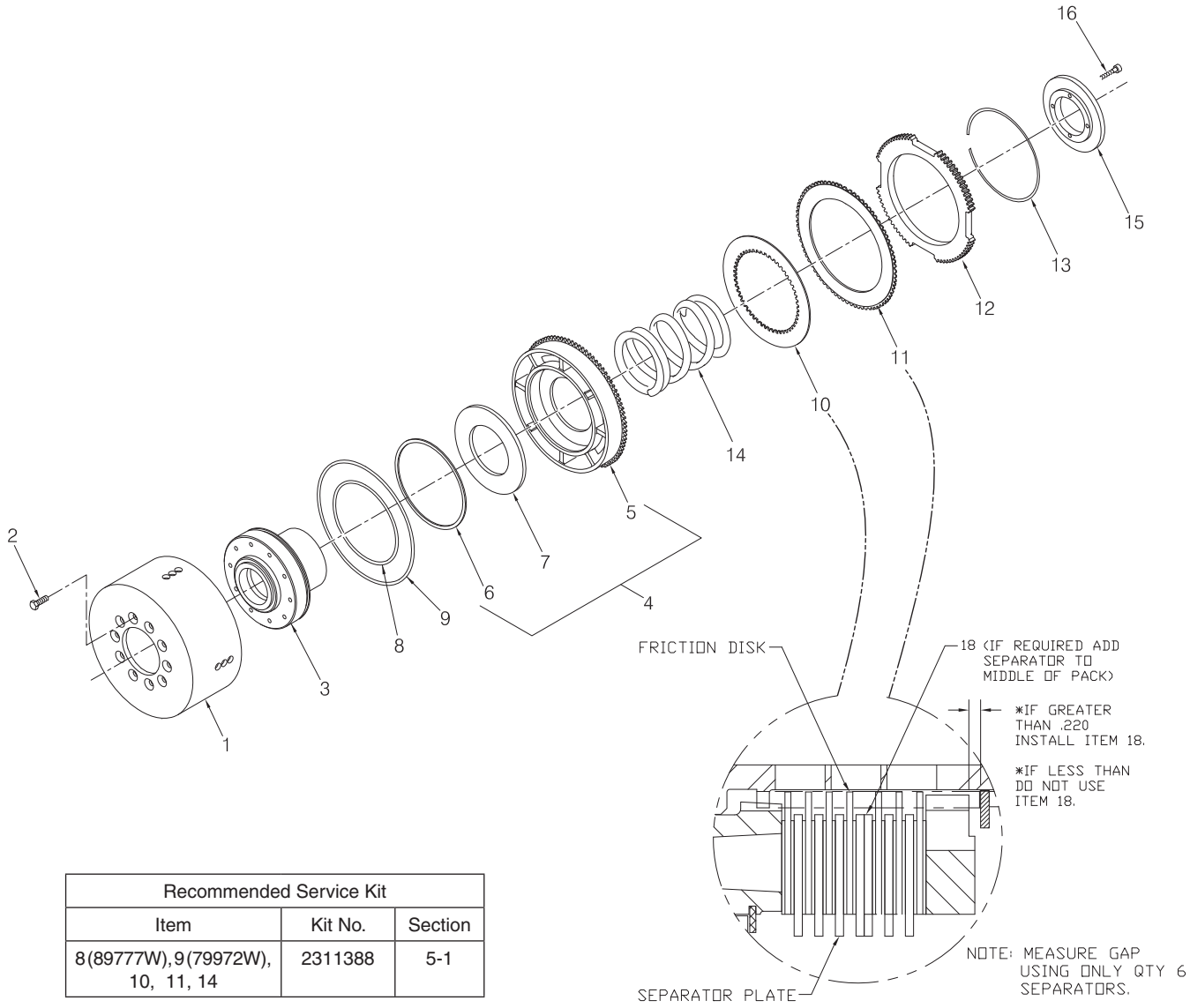

Recommended Service Kit		
Item	Kit No.	Section
8(89777W),9(79972W), 10, 11, 14	2311388	5-1

Clutch Assembly

First Used on S/N AW6G-1205

Item		Part No.	Description	Qty
		2300707W	**Assembly, Clutch**	**1**
1		2305072W	. Assembly, Clutch Spider	1
2		295752W	. . Capscrew	10
3	*c	2304978W	. . Hub	1
4		2300604W	. Assembly, Piston	1
5		2305607W	. . Piston	1
6		2305609W	. . Ring, Retaining	1
7		2305608W	. . Plate, Spring Reaction	1
8	*a	89777W	. O-Ring	1
	*b	15893W	. O-Ring	1
9	*a	79972W	. O-Ring	1
	*b	113586W	. O-Ring	1
10	*a	261542W	. Plate, Separator	6
11	*a	328715W	. Disc, Friction	7
12		2300618W	. Plate, Clutch	1
13		2300670W	. Ring, Snap	1
14	*a	2300619W	. Spring	1
15		2300608W	. Spring, Retainer	1
16		16338W	. Capscrew	4
18		261542W	. Plate, Separator (See Detail)	1

*a Included in 2302774W Service Kit

*b Included in Cold-Weather Seal Package P/N 2305406W

*c Use 318702W Thread Lock

Brake Arrangement

Last Used on S/N AW6G-1204

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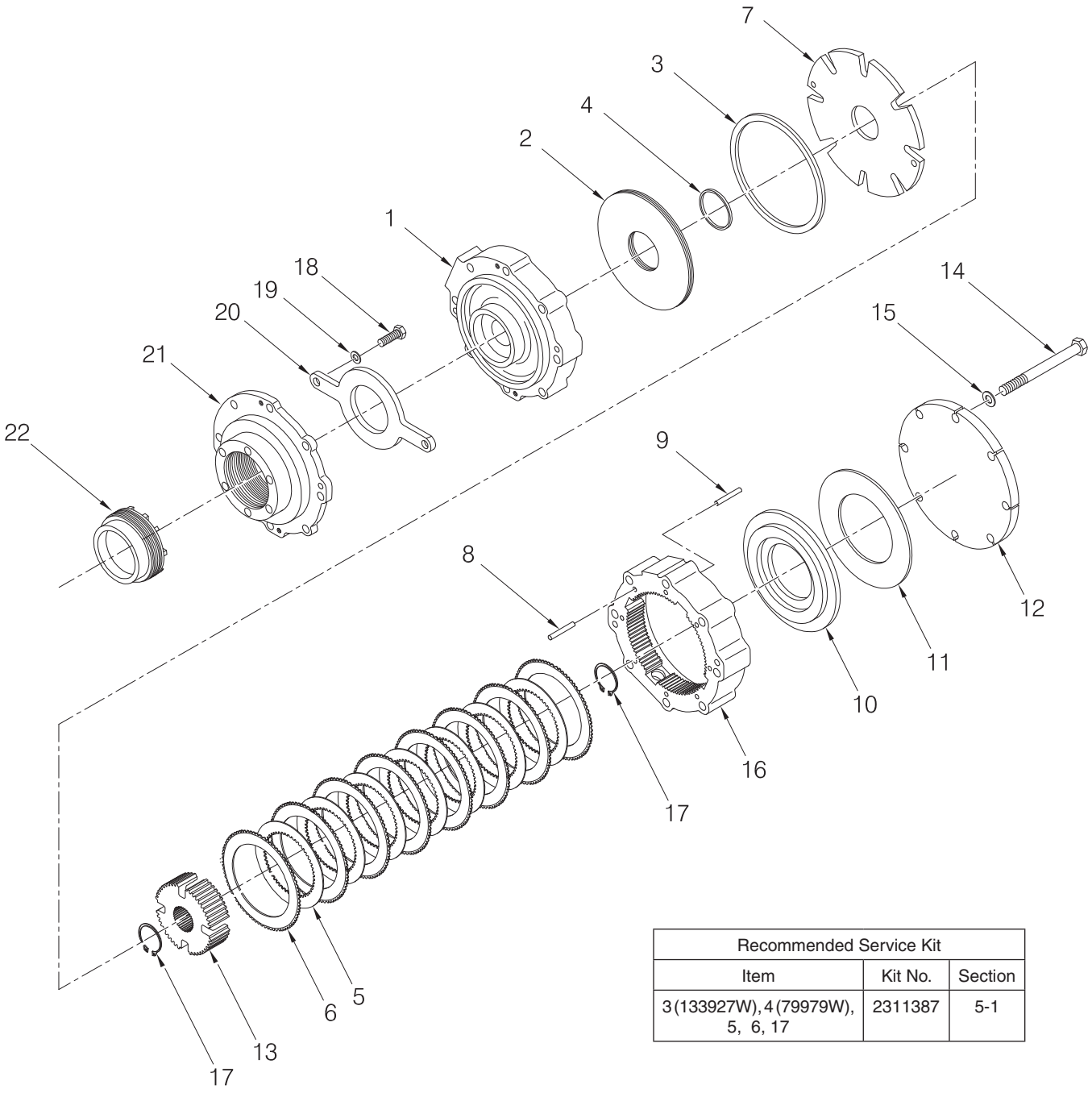


Recommended Service Kit		
Item	Kit No.	Section
3 (133927W), 4 (79979W), 5, 6, 17	2311387	5-1

Brake Arrangement

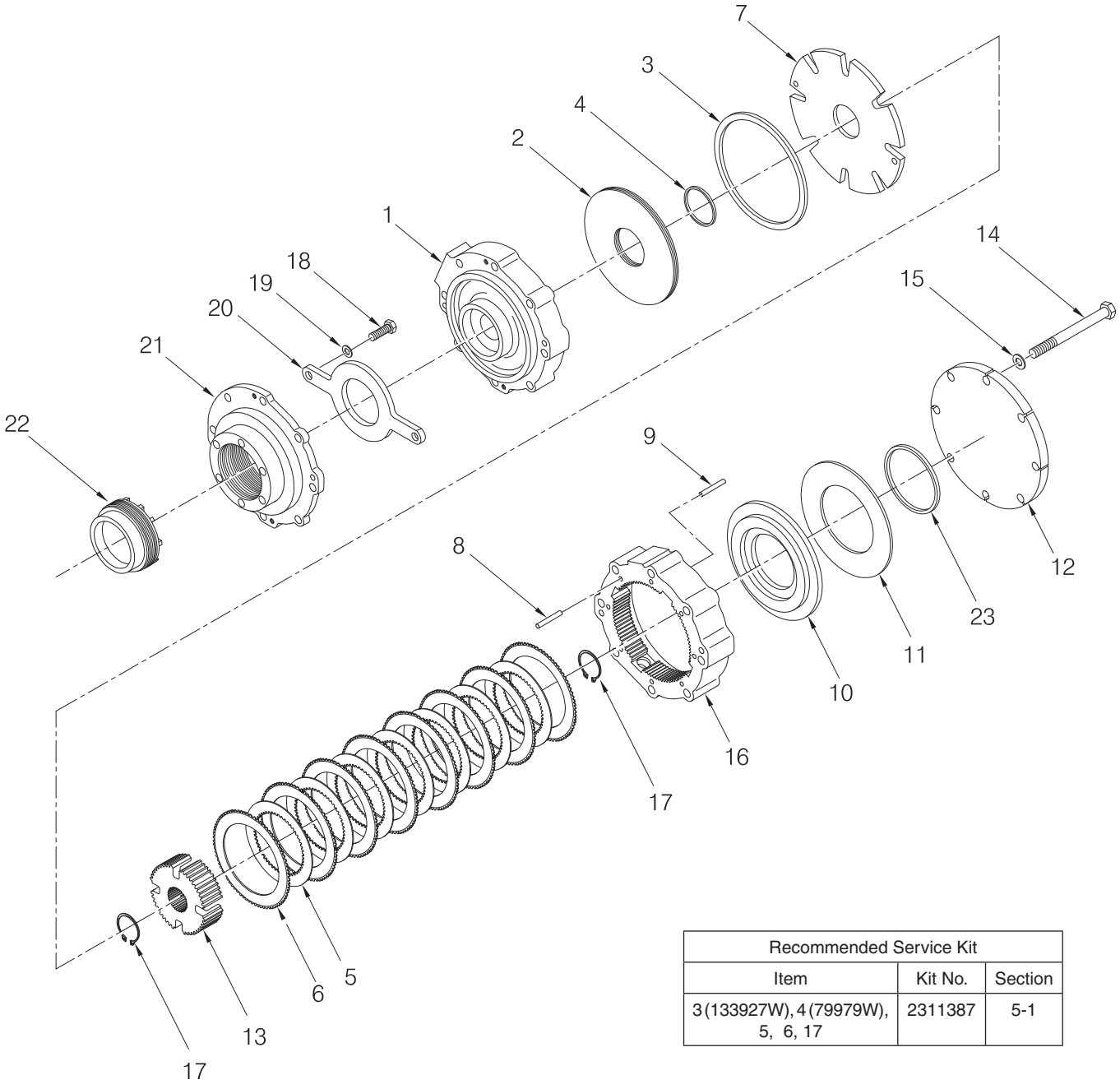
Last Used on S/N AW6G-1204

Item		Part No.	Description	Qty
1	*a	2302488W	Carrier, Bearing	1
	*b	2305993W	Carrier, Bearing	1
2		133926W	Piston	1
3		133927W	Ring, Seal	1
	*e	2305405W	Ring, Seal	1
4		79979W	O-Ring	1
	*e	46629W	O-Ring	1
5		261542W	Plate, Separator	7
6		328715W	Disc, Friction	8
7		2300629W	Plate, Pressure	1
8		92867W	Pin	2
9		2301523W	Pin, Thrust	8
10		265401W	Ring	1
11		193912W	Spring	1
12		2300631W	Cover, Brake	1
13		2300630W	Hub, Brake	1
14		2301522W	Capscrew	2
15		221775W	Washer	8
16		2300627W	Cage	1
17		12963W	Ring, Snap	2
18		221563W	Capscrew	2
19		15135W	Washer	2
20		2302490W	Keeper	1
21		2302484W	Housing, Bearing Retainer	1
22	*c	2302486W	Retainer, Bearing	1
22	*d	2306983W	Retainer, Bearing	1

*a Last Used on S/N AW6G-1064
*b First Used on S/N AW6G-1065
*c Last Used on S/N AW6G-1151
*d First Used on S/N AW6G-1152
*e Included in Cold-Weather Seal Package P/N 2305406W

Brake Arrangement

First Used on S/N AW6G-1205



Recommended Service Kit		
Item	Kit No.	Section
3 (133927W), 4 (79979W), 5, 6, 17	2311387	5-1

Brake Arrangement

First Used on S/N AW6G-1205

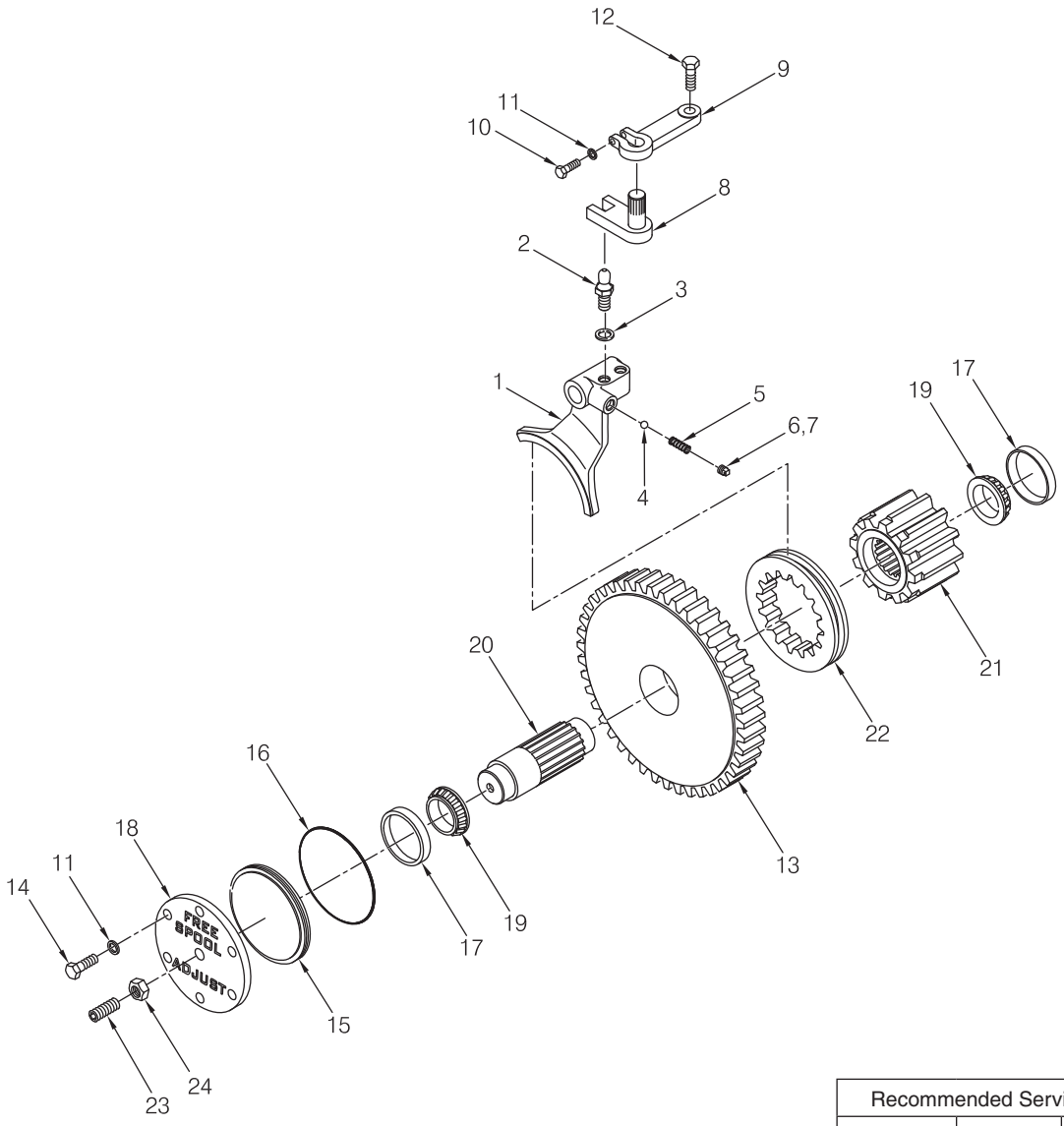
Item		Part No.	Description	Qty
1		2305993W	Carrier, Bearing	1
2		133926W	Piston	1
3		133927W	Ring, Seal	1
3	*a	2305405W	Ring, Seal	1
4		79979W	O-Ring	1
	*a	46629W	O-Ring	1
5		261542W	Plate, Separator	7
6		328715W	Disc, Friction	8
7		2300629W	Plate, Pressure	1
8		92867W	Pin	2
9		2301523W	Pin, Thrust	8
10		265401W	Ring	1
11		193912W	Spring	1
12		2300631W	Cover, Brake	1
13		2300630W	Hub, Brake	1
14		2301522W	Capscrew	2
15		221775W	Washer	8
16		2300627W	Cage	1
17		12963W	Ring, Snap	2
18		221563W	Capscrew	2
19		15135W	Washer	2
20		2302490W	Keeper	1
21		2302484W	Housing, Bearing Retainer	1
22		2306983W	Retainer, Bearing	1
23	*b	2310475	Ring, Stroke Limiter	1

*a Included in Cold-Weather Seal Package P/N 2305406W

*b First Used on S/N AW6G-1524

Intermediate Gear Shaft, Power Controls

With Freespool
Last Used on S/N AW6G-1015



Recommended Service Kit		
Item	Kit No.	Section
16, 17, 19	2311391	5-1

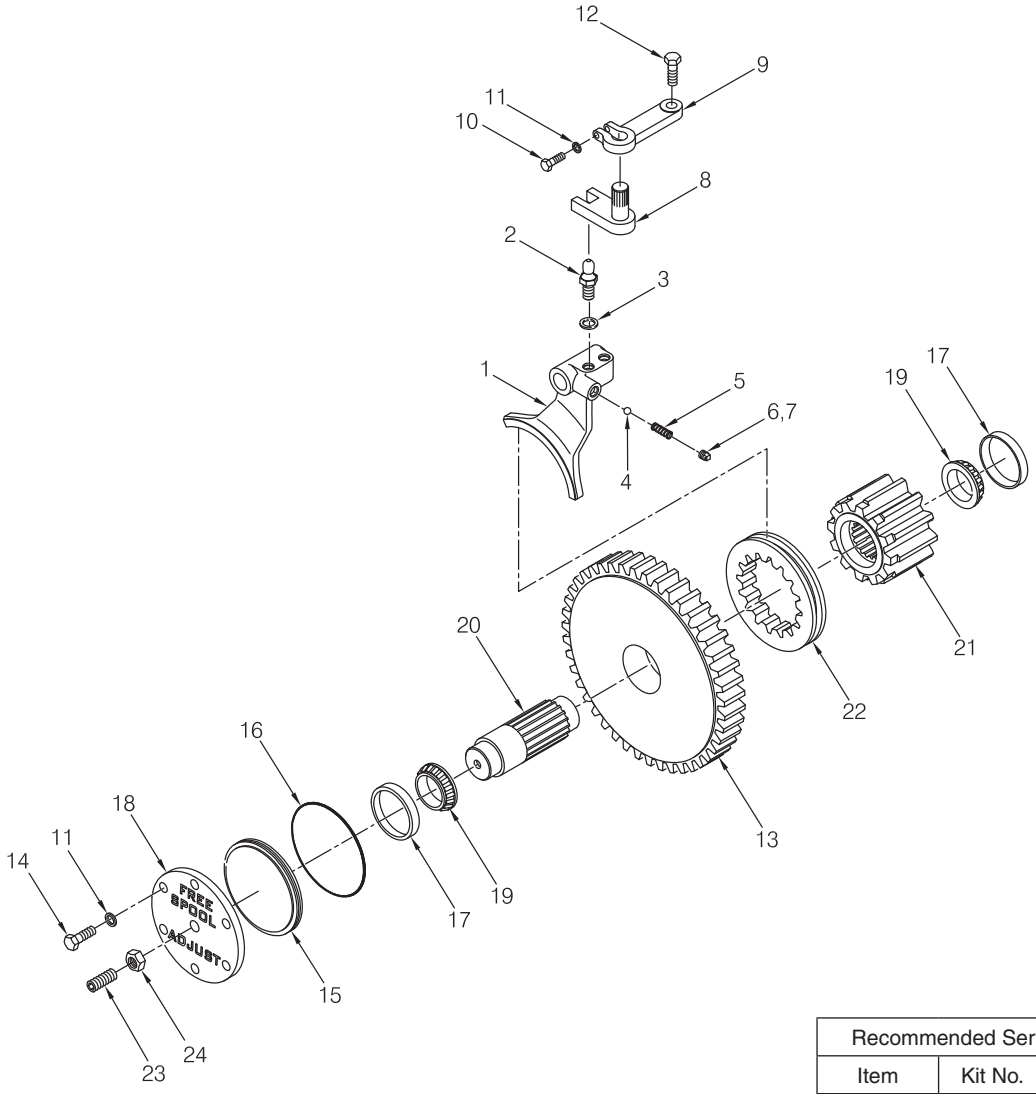
A - 45:1, 83:1 & 153:1
B - 56:1 & 103:1

Item	Part No.	Description	Qty A	Qty B
1	151580W	Shifter	1	1
2	151583W	Stud, Ball	1	1
3	15906W	Washer	1	1
4	6348W	Ball	1	1
5	280985W	Spring	1	1
6	46578W	Plug	1	1
7	67355W	Lockwire	AR	AR
8	151584W	Shaft, Crank	1	1
9	203239W	Crank	1	1
10	18588W	Capscrew	1	1
11	15158W	Washer	7	7
12	85749W	Bolt, Shoulder	1	1
13	283434W	Gear (2.75" ID)	1	--
14	2302626W	Capscrew	6	6
15	2302624W	Piston, Adjust	1	1
16	159940W	O-Ring	1	1
17	30059W	Cup, Bearing	2	2
18	2302625W	Cover	1	1
19	30058W	Cone, Bearing	2	2
	2302311W	Cone, Bearing	2	2
20	283427W	Shaft, (2.75" OD)	1	1
21	282148W	Gear, Pinion	1	1
22	151588W	Clutch	1	1
23	2304803W	Setscrew	1	1
24	221717W	Nut	1	1

Intermediate Gear Shaft, Power Controls

With Freespool

Used on S/N AW6G-1016 thru AW6G-1049



Recommended Service Kit		
Item	Kit No.	Section
16, 17, 19	2311392	5-1

A - 45:1, 83:1 & 153:1
B - 56:1 & 103:1

Item		Part No.	Description	Qty A	Qty B
1		151580W	Shifter	1	1
2		151583W	Stud, Ball	1	1
3		15906W	Washer	1	1
4		6348W	Ball	1	1
5		280985W	Spring	1	1
6		46578W	Plug	1	1
7		67355W	Lockwire	AR	AR
8		151584W	Shaft, Crank	1	1
9		203239W	Crank	1	1
10		18588W	Capscrew	1	1
11		15158W	Washer	7	7
12		85749W	Bolt, Shoulder	1	1
13		282724W	Gear (2.94" ID)	1	--
	*a	283433W	Gear (2.75" ID)	--	1
	*b	282149W	Gear (2.94" ID)	--	1
14		2302626W	Capscrew	6	6

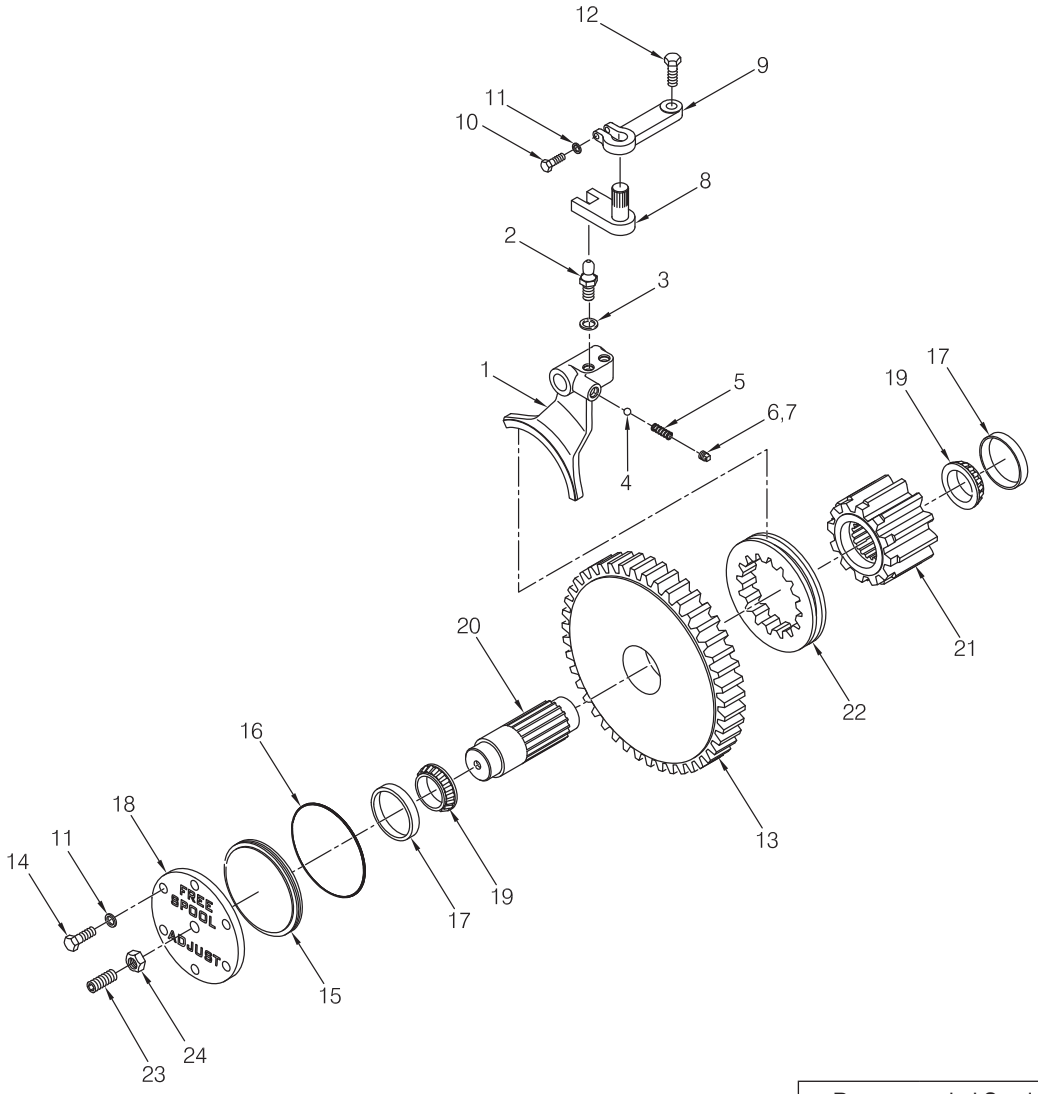
Item		Part No.	Description	Qty A	Qty B
15		2302624W	Piston, Adjust	1	1
16		159940W	O-Ring	1	1
17		30059W	Cup, Bearing	2	2
18		2302625W	Cover	1	1
19		2302311W	Cone, Bearing	2	2
20		2302310W	Shaft, (2.94" OD)	1	1
21		2302309W	Gear, Pinion	1	1
22		151588W	Clutch	1	1
23	*c	221650W	Capscrew	1	1
23	*d	2304803W	Setscrew	1	1
24	*d	221717W	Nut	1	1

*a Last Used on S/N AW6G-1023
*b First Used on S/N AW6G-1024
*c Last Used on S/N AW6G-1031
*d First Used on S/N AW6G-1032

Intermediate Gear Shaft, Power Controls

With Freespool

Used on S/N AW6G-1050 thru AW6G-1091



Recommended Service Kit		
Item	Kit No.	Section
16, 17, 19	2311393	5-1

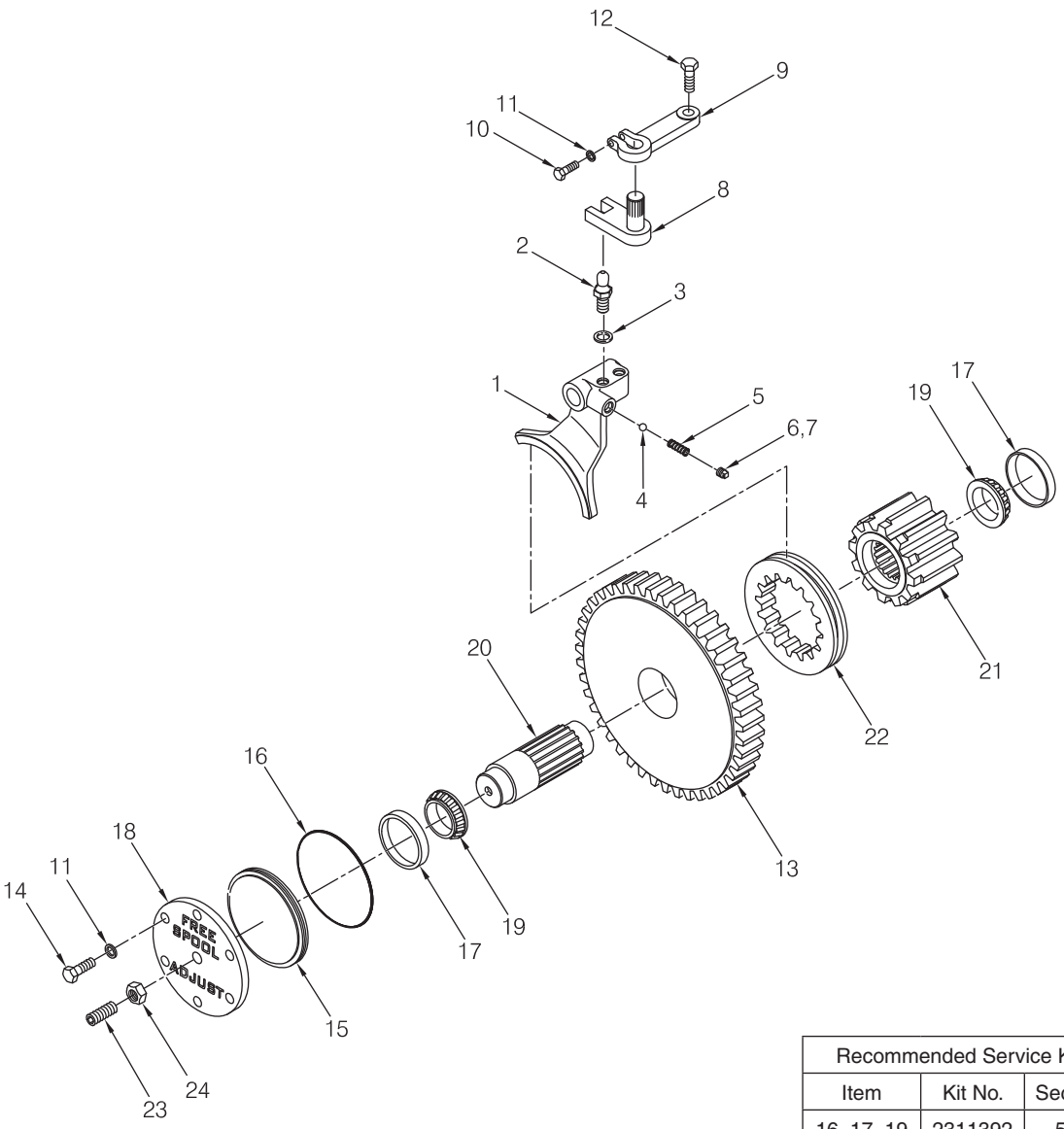
A - 45:1, 83:1 & 153:1
B - 56:1 & 103:1

Item	Part No.	Description	Qty A	Qty B
1	151580W	Shifter	1	1
2	151583W	Stud, Ball	1	1
3	15906W	Washer	1	1
4	6348W	Ball	1	1
5	280985W	Spring	1	1
6	46578W	Plug	1	1
7	67355W	Lockwire	AR	AR
8	151584W	Shaft, Crank	1	1
9	203239W	Crank	1	1
10	18588W	Capscrew	1	1
11	15158W	Washer	7	7
12	85749W	Bolt, Shoulder	1	1
13	282724W	Gear (2.94" ID)	1	--

Item	Part No.	Description	Qty A	Qty B
13	282149W	Gear (2.94" ID)	--	1
14	2302626W	Capscrew	6	6
15	2302624W	Piston, Adjust	1	1
16	159940W	O-Ring	1	1
17	30059W	Cup, Bearing	2	2
18	2302625W	Cover	1	1
19	30080W	Cone, Bearing	2	2
20	2305556W	Shaft, (2.94" OD)	1	1
21	2302309W	Gear, Pinion	1	1
22	151588W	Clutch	1	1
23	2304803W	Setscrew	1	1
24	221717W	Nut	1	1

Intermediate Gear Shaft, Power Controls

With Freespool
First Used on S/N AW6G-1092



Recommended Service Kit		
Item	Kit No.	Section
16, 17, 19	2311392	5-1

A - 45:1, 83:1 & 153:1
B - 56:1 & 103:1

Item	Part No.	Description	Qty A	Qty B
1	151580W	Shifter	1	1
2	151583W	Stud, Ball	1	1
3	15906W	Washer	1	1
4	6348W	Ball	1	1
5	280985W	Spring	1	1
6	46578W	Plug	1	1
7	67355W	Lockwire	AR	AR
8	151584W	Shaft, Crank	1	1
9	203239W	Crank	1	1
10	18588W	Capscrew	1	1
11	15158W	Washer	7	7
12	85749W	Bolt, Shoulder	1	1
13	283434W	Gear (2.75" ID)	1	--
13	283433W	Gear (2.75" ID)	--	1
14	2302626W	Capscrew	6	6

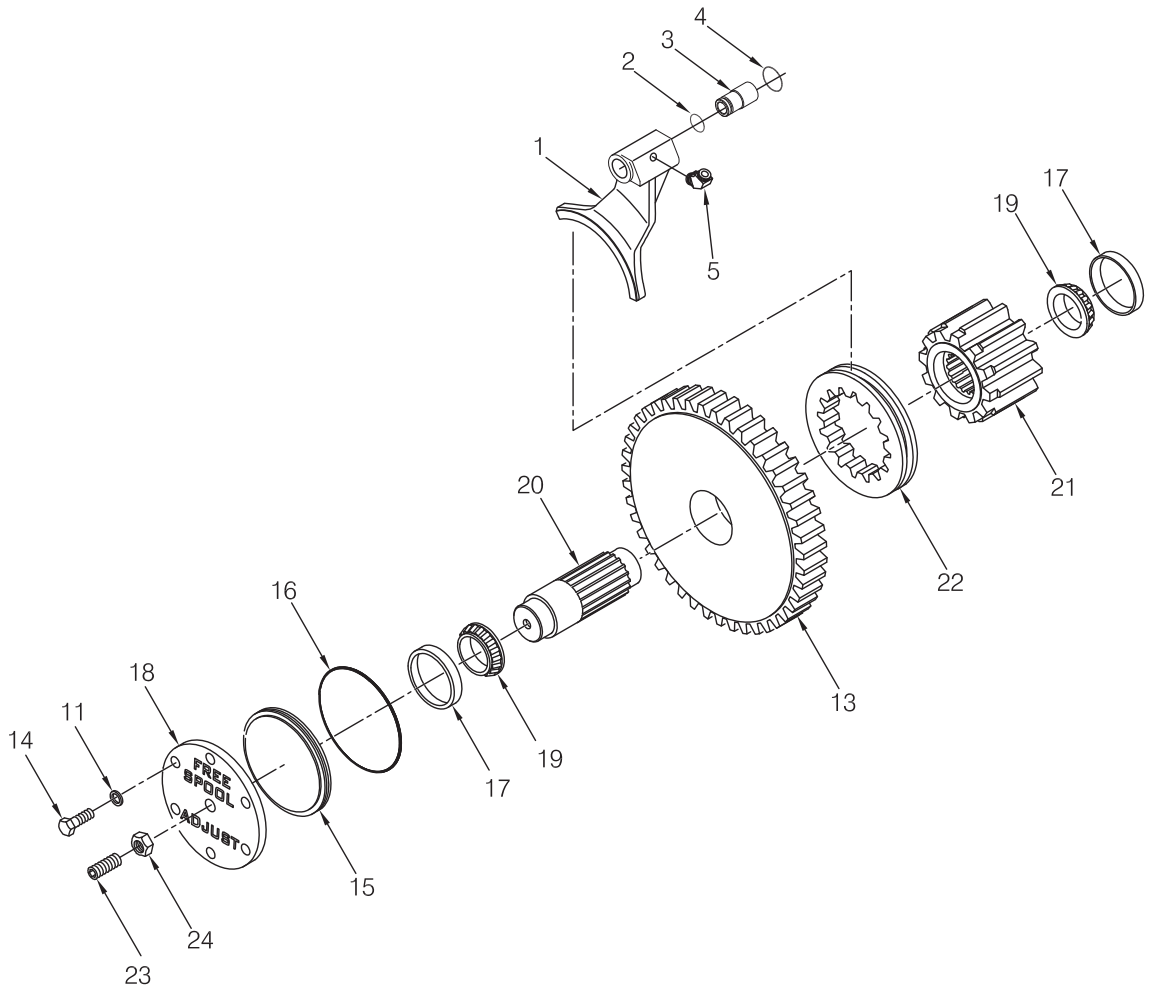
Item		Part No.	Description	Qty A	Qty B
15		2302624W	Piston, Adjust	1	1
16		159940W	O-Ring	1	1
17		30059W	Cup, Bearing	2	2
18		2302625W	Cover	1	1
19		2302311W	Cone, Bearing	2	2
20		2305956W	Shaft, (2.75" OD)	1	1
21	*a	282148W	Gear, Pinion	1	1
		2312280	Gear, Pinion	1	1
22	*b	151588W	Clutch, Dental	1	1
		2312269	Clutch, Dental	1	1
23		2304803W	Setscrew	1	1
24		221717W	Nut	1	1

*a Service 282148W with 2312280
*b Service 151588W with 2312269

Intermediate Gear Shaft, Electronic Controls

With Freespool

Used on S/N AW6G-1062 thru AW6G-1091



Recommended Service Kit		
Item	Kit No.	Section
16, 17, 19	2311390	5-1

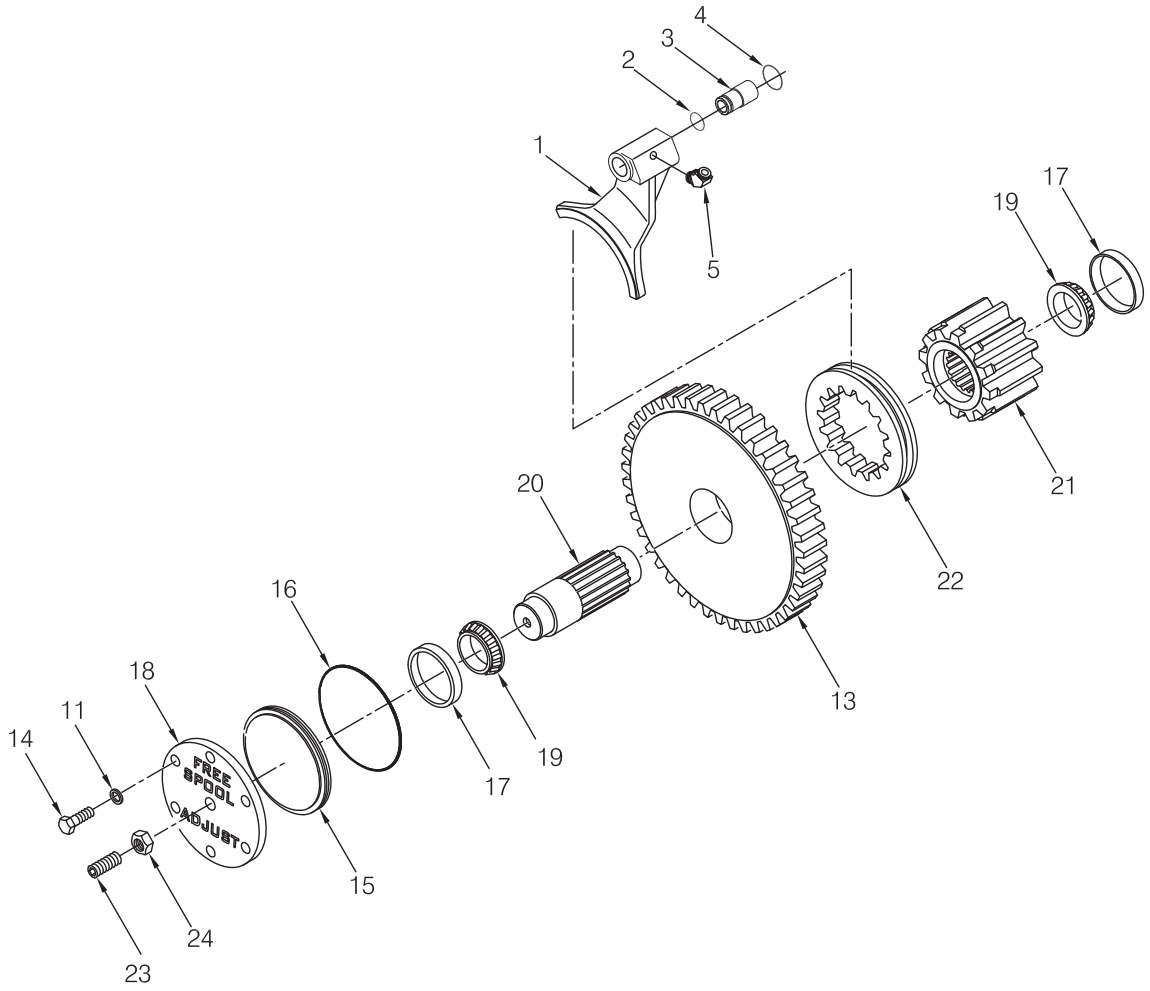
A - 45:1, 83:1 & 153:1
B - 56:1 & 103:1

Item		Part No.	Description	Qty A	Qty B
1		2305099W	Shifter	1	1
2		61056W	O-Ring	1	1
3		2305097W	Piston, Freespool	1	1
4		15862W	O-Ring	2	2
5	*a	16565W	Fitting	1	1
11		15158W	Washer	6	6
13		283434W	Gear	1	--
13		283433W	Gear	--	1
14		2302626W	Capscrew	6	6
15		2302624W	Piston, Freespool Adjust	1	1
16		159940W	O-Ring	1	1
17		30059W	Cup, Bearing	2	2
18		2302625W	Cover	1	1
19		30080W	Cone, Bearing	1	1
20		2305556W	Shaft, Intermediate	1	1
21		2302309W	Gear, Pinion	1	1
22		151588W	Clutch	1	1
23		2304803W	Setscrew	1	1
24		221717W	Nut	1	1

*a See Hydraulic Group, Electronic Controls

Intermediate Gear Shaft, Electronic Controls

With Freespool
First Used on S/N AW6G-1092



Recommended Service Kit		
Item	Kit No.	Section
16, 17, 19	2311390	5-1

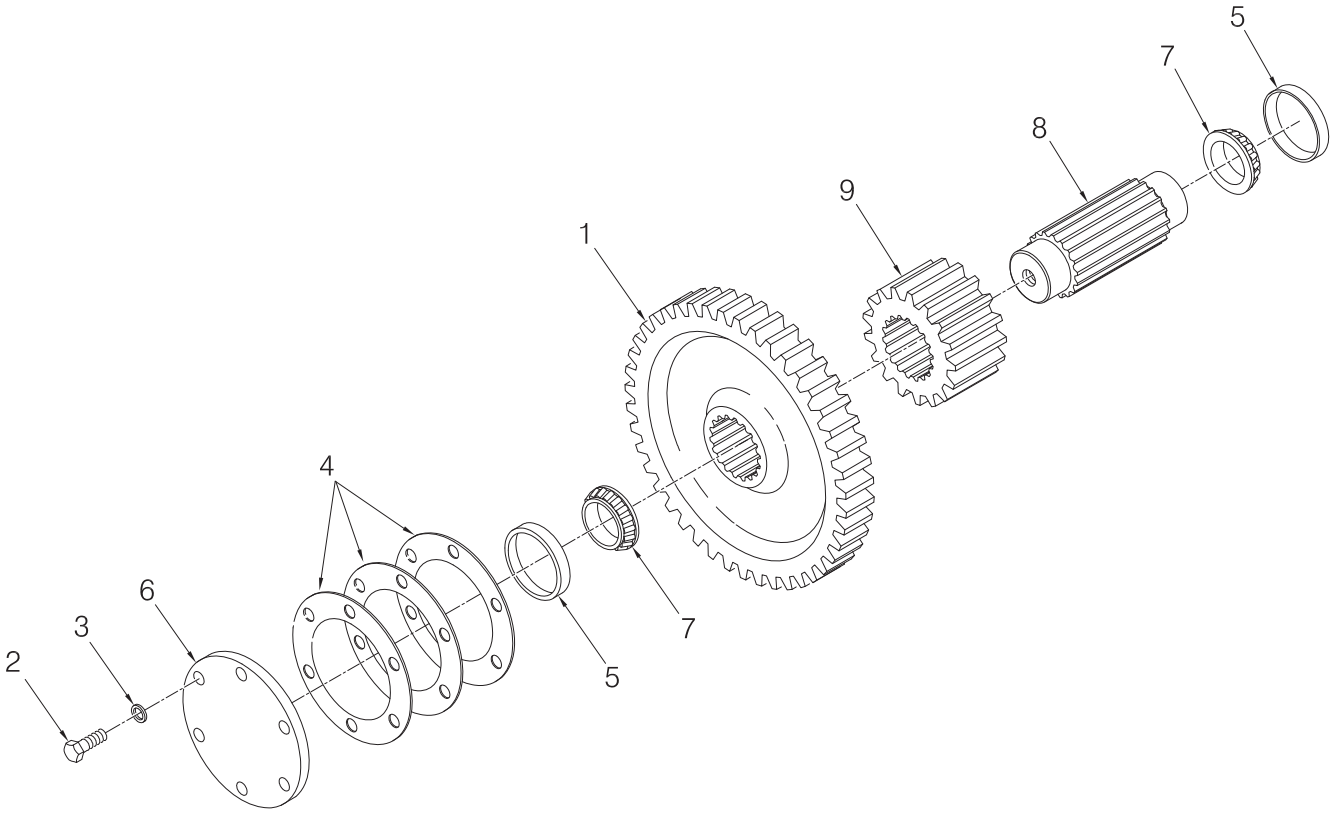
A - 45:1, 83:1 & 153:1
B - 56:1 & 103:1

Item		Part No.	Description	Qty A	Qty B
1		2305099W	Shifter	1	1
2		61056W	O-Ring	1	1
3		2305097W	Piston, Freespool	1	1
4		15862W	O-Ring	2	2
5	*a	16565W	Fitting	1	1
11		15158W	Washer	6	6
13		283434W	Gear	1	--
		283433W	Gear	--	1
14		2302626W	Capscrew	6	6
15		2302624W	Piston, Freespool Adjust	1	1
16		159940W	O-Ring	1	1
17		30059W	Cup, Bearing	2	2
18		2302625W	Cover	1	1
19		2302311W	Cone, Bearing	1	1
20		2305956W	Shaft, Intermediate	1	1
21	*b	282148W	Gear, Pinion	1	1
		2312280	Gear, Pinion	1	1
22	*c	151588W	Clutch, Dental	1	1
		2312269	Clutch, Dental	1	1
23		2304803W	Setscrew	1	1
24		221717W	Nut	1	1

*a See Hydraulic Group, Electronic Controls
*b Service 282148W with 2312280
*c Service 151588W with 2312269

Intermediate Gear Shaft

Without Freespool

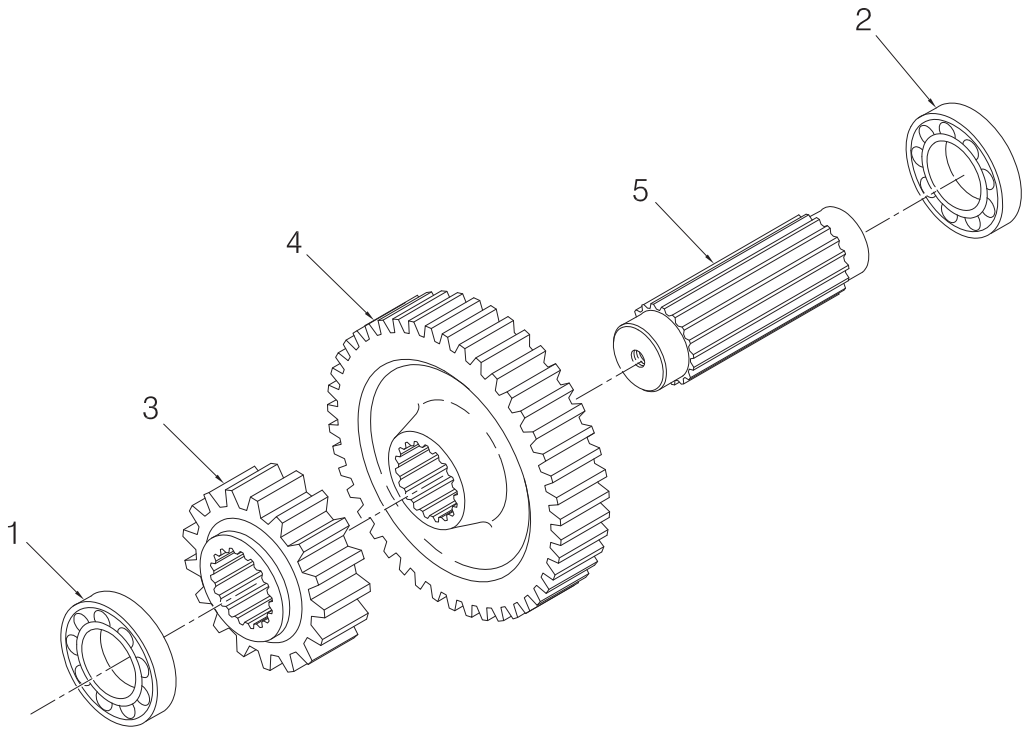


Recommended Service Kit		
Item	Kit No.	Section
5, 7	2311390	5-1

A - 45:1, 83:1 & 153:1
B - 56:1 & 103:1

Item	Part No.	Description	Qty A	Qty B
1	96024W	Gear	1	--
	96031W	Gear	--	1
2	178402W	Capscrew	6	6
3	15158W	Washer	6	6
4	149541W	Shim .005	AR	AR
	149542W	Shim .007	AR	AR
	149543W	Shim .020	AR	AR
5	30059W	Cup, Roller Bearing	2	2
6	280262W	Cover	1	1
7	30080W	Cone, Roller Bearing	2	2
8	95972W	Shaft, Intermediate	1	1
9	95973W	Gear	1	1

Idler Gear Shaft



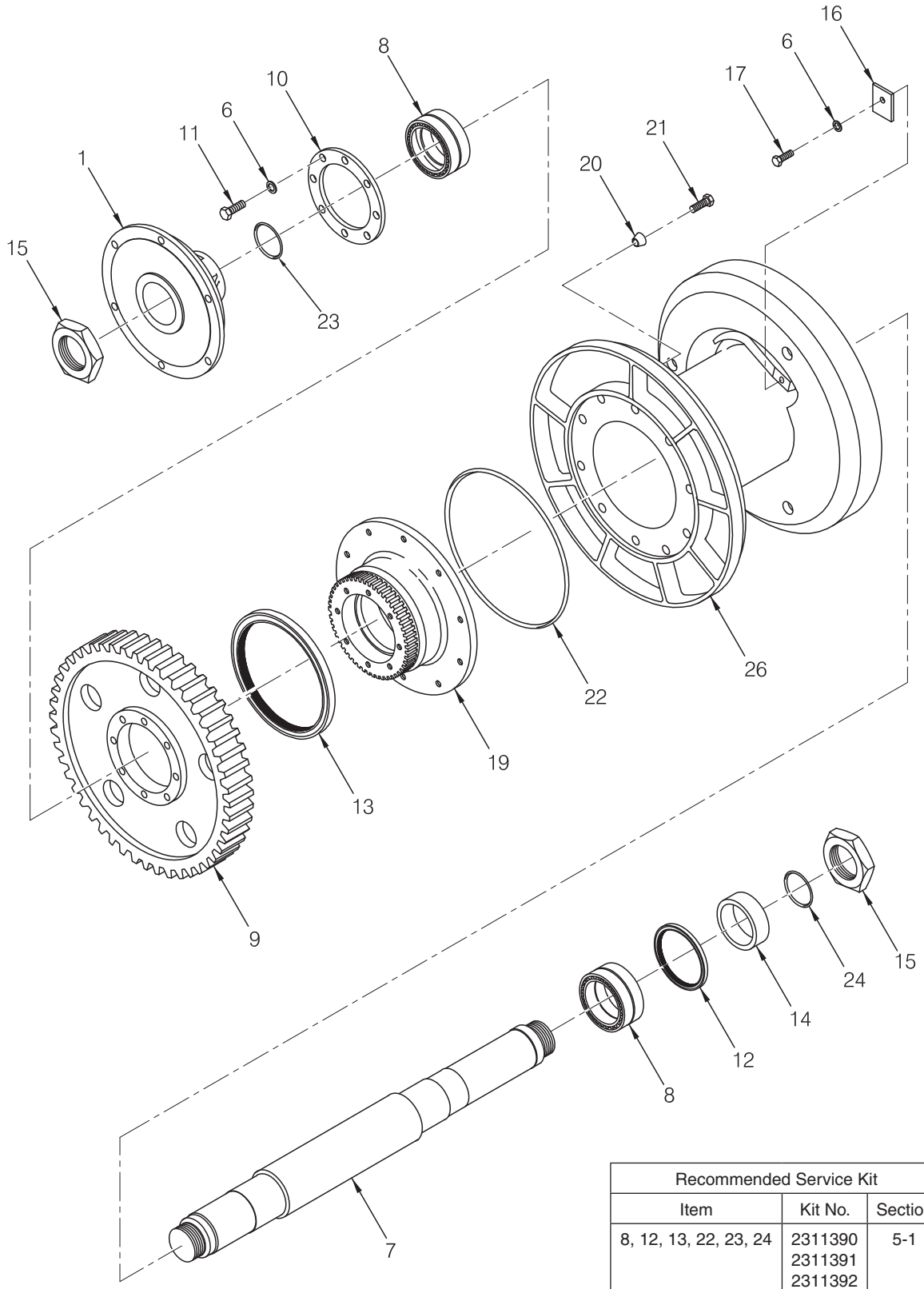
Recommended Service Kit		
Item	Kit No.	Section
1, 2	2311389	5-1

A - 45:1, 83:1 & 153:1
B - 56:1 & 103:1

Item	Part No.	Description	Qty A	Qty B
1	43310W	Bearing	1	1
2	43210W	Bearing	1	1
3	2300617W	Gear, Idler	1	--
3	2304675W	Gear, Idler	--	1
4	2300614W	Gear	1	1
5	2300616W	Shaft, Idler	1	1

Drum Shaft

Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
8, 12, 13, 22, 23, 24	2311390 2311391 2311392 2311393	5-1

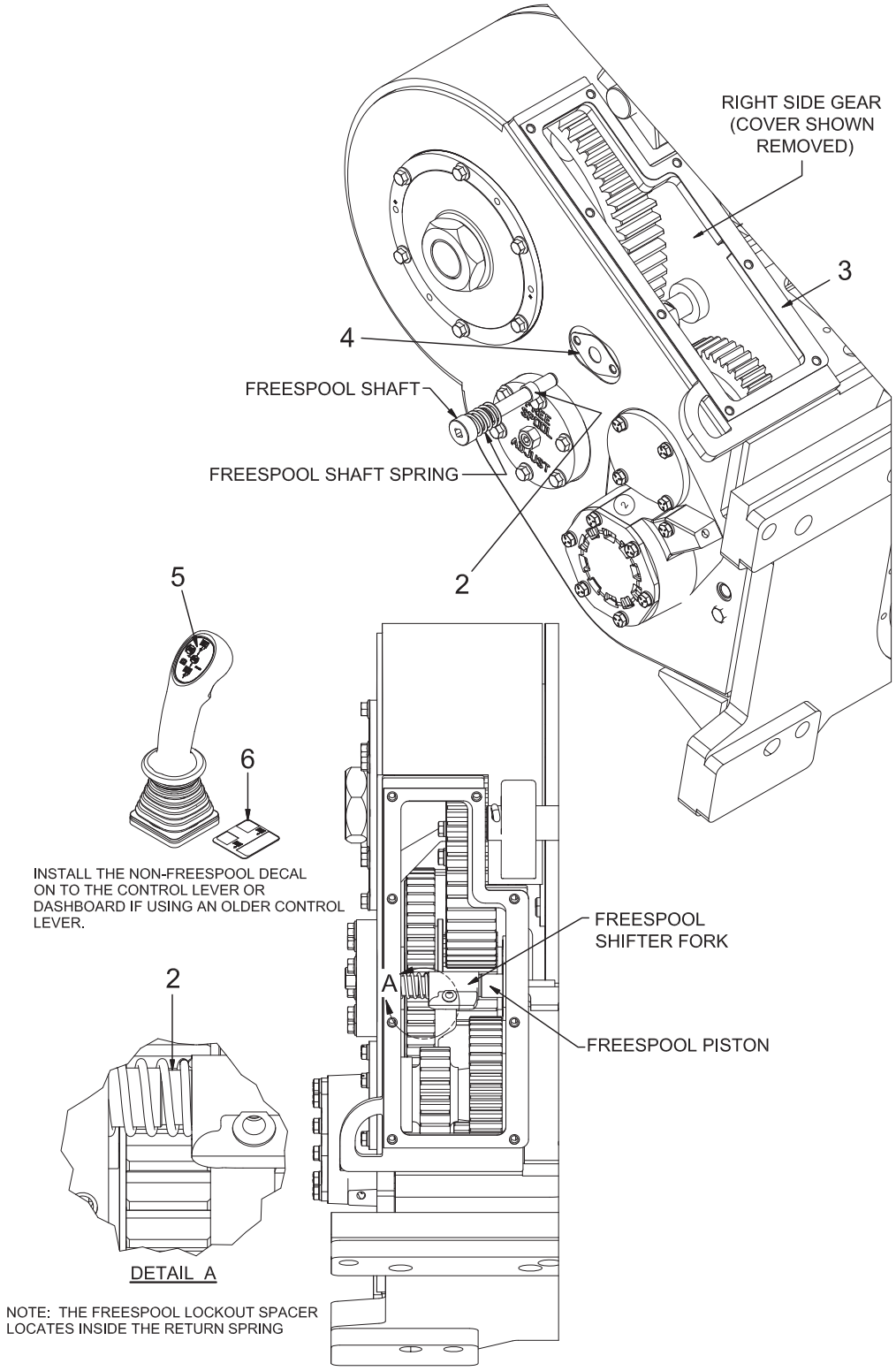
Drum Shaft

Page 2 of 2

Item		Part No.	Description	Qty
1		- - - - - - -	Cover (1-2 thru 1-15)	Ref
6		15158W	Washer	9
7		2300632W	Shaft, Drum	1
7A	*b	242838W	Shaft, Drum	1
8		230406W	Bearing, Roller	2
9		95977W	Gear, Drum	1
10		95978W	Plate, Retainer	1
11		221577W	Capscrew	8
12		44547W	Seal, Oil	1
13		141671W	Seal, Oil	1
14		172808W	Spacer	1
15	*a	6607W	Nut	2
15A	*a,*b	242831W	Nut, Round	2
16		2301783W	Keeper, Ferrule	1
17		16829W	Capscrew	1
19		141674W	Adaptor	1
20		53559W	Thimble	10
21	*d	141675W	Capscrew	10
	*e	2310891	Capacrew	10
22		133927W	Ring, Seal	1
23		90263W	O-Ring	1
24		15881W	O-Ring	1
26	*c	141676W	Drum, Over Wind (F) or (N)	1
26	*c	2312361	Drum, Under Wind (U)	1

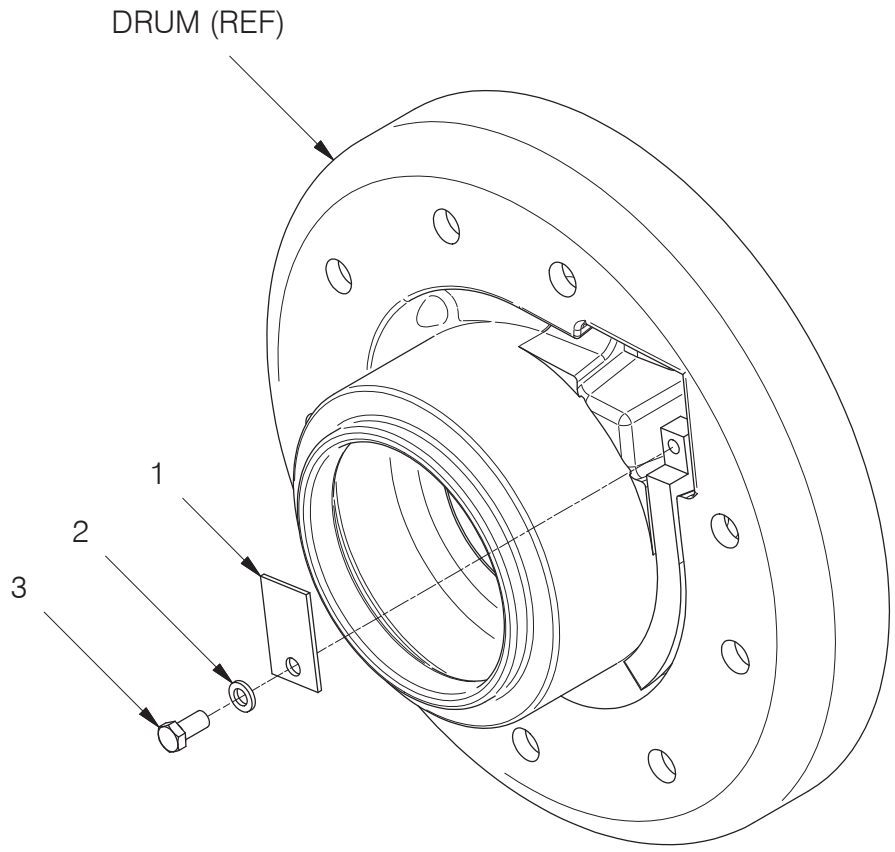
*a Requires 358674W Sealant
*b Included in 2303104W Extended Drum Shaft Kit
*c (F), (N) or (U) Indicate Winch Internal Option Codes. See Page 0-6 for Details.
*d Last Used on S/N AW6G-1720
*e First Used on S/N AW6G-1721

Freespool Lockout Kit



Item	Part No.	Description	Qty
	2314936	**Kit, Freespool Lockout**	**1**
1	2315166	. Drawing, Freespool Lockout Kit	1
2	2314935	. Spacer	1
3	2300693W	. Gasket, Top Cover - RH	1
4	151646W	. Gasket, Freespool	1
5	2314863	. Decal, Control Lever - w/o FS	1
6	2305250W	. Decal, Control Lever - PFR w/o FS	1

Wire Rope Lock



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2301783W	Keeper, Ferrule	1	3	16829W	Capscrew	1
2	15158W	Washer	1				

Intentionally Blank

Hydraulics/Controls

Power Controls

Control Lever . . . . . 3-92 thru 3-97

Control Lever Conversion Kit . . . . . 3-90 & 3-91

Control Valve 3-52

Handling Gear . . . . . 3-53 thru 3-89
• Non-Freespool . . . . . 3-53 thru 3-61
  • • Case 3-53
  • • Caterpillar . . . . . 3-54 thru 3-57
  • • Fiat-Hitachi . . . . . 3-58 & 3-59
  • • Komatsu . . . . . 3-60 & 3-61
• Freespool . . . . . 3-62 thru 3-89
  • • Case 3-62
  • • Caterpillar . . . . . 3-63 thru 3-77
  • • Dresser/Dressta . . . . . 3-78 & 3-79
  • • Fiat-Hitachi . . . . . 3-80 thru 3-82
  • • John Deere . . . . . 3-83 thru 3-87
  • • Komatsu . . . . . 3-88 & 3-89

Hydraulic Group . . . . . 3-2 thru 3-51

Electronic Controls

Common Parts . . . . . 3-176 & 3-177

Console Assembly . . . . . 3-146 & 3-147

Control Lever Replacement Kit . . . . . 3-178 & 3-179

Control Lever Conversion Kit . . . . . 3-174 & 3-175

E-Controls Conversion Kit . . . . . 3-170 thru 3-173

External Adaptor Cable Kit 3-135

External Wiring Harness Repair Kit 3-136

Handling Gear . . . . . 3-142 thru 3-169
  • Case . . . . . 3-142 thru 3-149
  • Caterpillar . . . . . 3-150 thru 3-159
  • Dressa/Dressta . . . . . 3-160 & 3-161
  • John Deere . . . . . 3-162 thru 3-165
  • Komatsu . . . . . 3-166 thru 3-169

Hydraulic Group . . . . . 3-98 thru 3-129

Internal Wiring . . . . . 3-130 thru 3-134

Valve Manifold Assembly . . . . . 3-137 thru 3-141

Common Parts

Fuel/Water Separator Relocation . . . . . 3-193 & 3-194

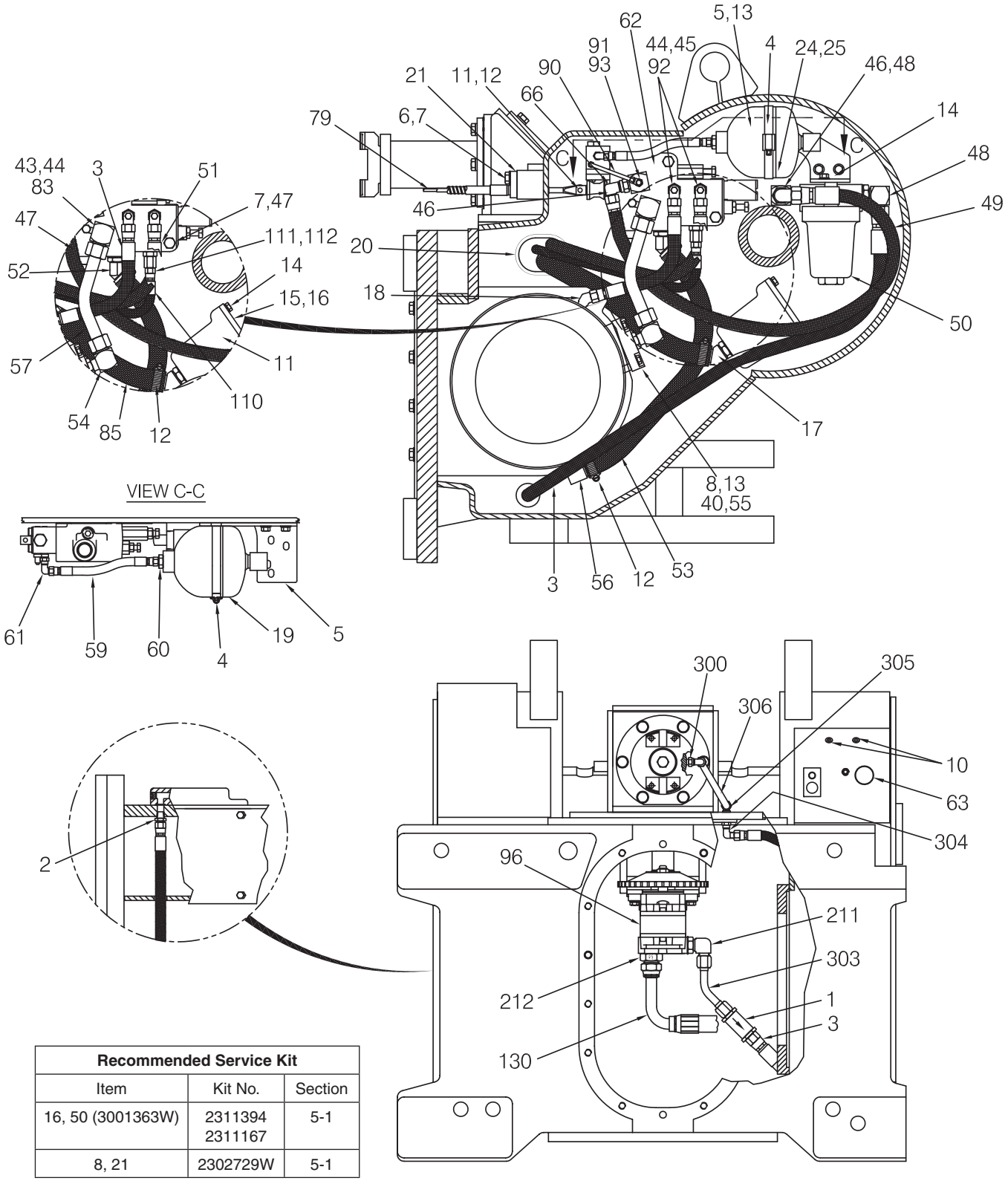
Hydraulic Pump . . . . . 3-180 thru 3-183

Plumbing Modifications . . . . . 3-184 thru 3-187

Tractor Filter Relocation . . . . . 3-188 thru 3-192

Hydraulic Group, Power Controls

Case Quadtrac (R39)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
16, 50 (3001363W)	2311394 2311167	5-1
8, 21	2302729W	5-1

Hydraulic Group, Power Controls

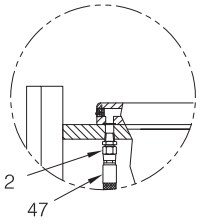
Case Quadtrac (R39)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	2
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
10		2305987W	Setscrew	2
11		219172W	Strainer	1
12		209639W	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	8
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
19		R16271	Accumulator	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
43		225712W	Fitting, Special	1
44		16923W	Fitting	3
45		17777W	Fitting	2
46		16989W	Fitting	2
47		198385W	Capscrew	3
48		16559W	Fitting	2
49		2301844W	Assembly, Hose	1
50		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
59		383892W	Assembly, Hose	1
60		222381W	Fitting	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
65		15158W	Washer	3
66		2305986W	Setscrew	2
79		- - - - - - - -	Cable (See Handling Gear pages)	Ref
83		14500W	Fitting	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Fitting	1
93		14500W	Fitting	1
95		129563W	Clamp, Strap	1
96		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
110		109002W	Assembly, Hose	1
111		17689W	Fitting	1
112		14713W	Fitting	1
130		2305394W	Assembly, Hose	1
211		17224W	Fitting	1
212		16543W	Fitting	1
300		14500W	Fitting	1
304		16987W	Fitting	1
305		16455W	Fitting	1
306		140288W	Assembly, Hose	1

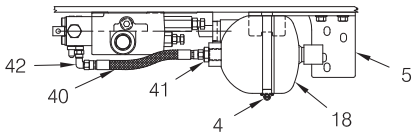
*a Use 273338W Pipe Thread Sealant
*b Use 318701W Adhesive

Hydraulic Group, Power Controls

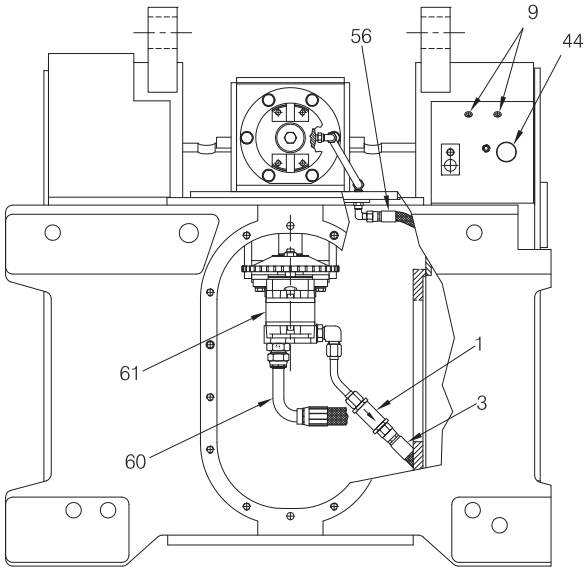
Case Quadtrac (R39)
Used on S/N AW6G-1119 through S/N AW6G-1938
Page 1 of 2



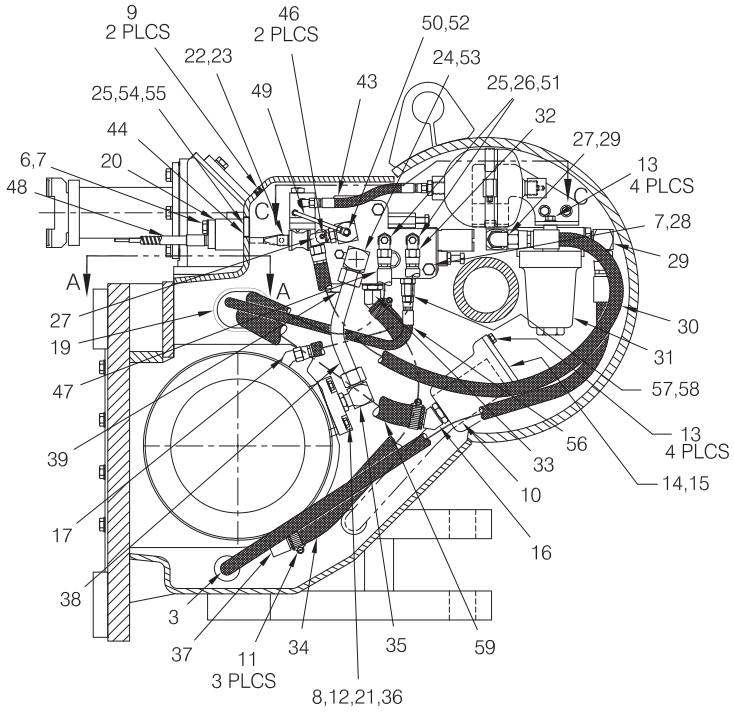
VIEW A-A



VIEW C-C



FRONT VIEW



LEFT SIDE VIEW

Recommended Service Kit		
Item	Kit No.	Section
15, 31 (3001363W)	2311167	5-1
8, 15, 20	2302729W	5-1

Hydraulic Group, Power Controls

Case Quadtrac (R39)
Used on S/N AW6G-1119 through S/N AW6G-1938
Page 2 of 2

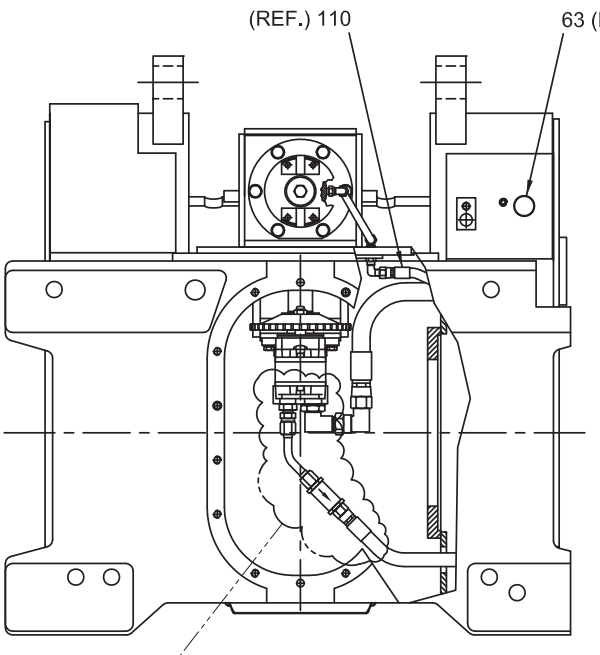
Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
9		2305987W	Setscrew	2
10		219172W	Strainer	1
11		209639W	Clamp	3
12		15156W	Washer	5
13	*a	1300780W	Screw, Flanged	8
14		2300936W	Cover	1
15		2300935W	Gasket	1
16		2302985W	Fitting	1
17		16568W	Fitting	1
18		R16271	Accumulator	1
19		24257	Trim	AR
20		303946W	Gasket	1
21		279392W	Block	1
22		139W	Pin, Rod End	1
23		15212W	Pin	1
24		225712W	Fitting	1
25		16923W	Fitting	3
26		17777W	Fitting	2
27		16989W	Fitting	2
28		198385W	Capscrew	3
29		16559W	Fitting	2
30		2301844W	Assembly, Hose	1
31		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1

Item		Part No.	Description	Qty
32		133943W	Assembly, Hose	1
33		2300776W	Fitting	1
34		2300761W	Assembly, Hose	1
35		16948W	Fitting	1
36		16828W	Capscrew	2
37		2300774W	Fitting	1
38		2300762W	Assembly, Tube	1
39		226450W	Assembly, Valve	1
40		383892W	Assembly, Hose	1
41		222381W	Fitting	1
42		16987W	Fitting	1
43		2300301W	Valve, Control (3-52)	1
44	*b	2304823W	Plug	1
45		15158W	Washer	3
46		2305986W	Setscrew	2
47		2300767W	Assembly, Hose	1
48		- - - - - - - -	Cable (See Handling Gear pages)	Ref
49		277663W	Assembly, Tube	1
50		2301843W	Fitting	1
51		2300771W	Assembly, Fitting	2
52		14500W	Fitting	1
53		14668W	Fitting	1
54	*c	16445W	Fitting	1
55		140288W	Assembly, Hose	1
56		109002W	Assembly, Hose	1
57		17689W	Fitting	1
58		14713W	Fitting	1
60		2305394W	Assembly, Hose	1
61		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1

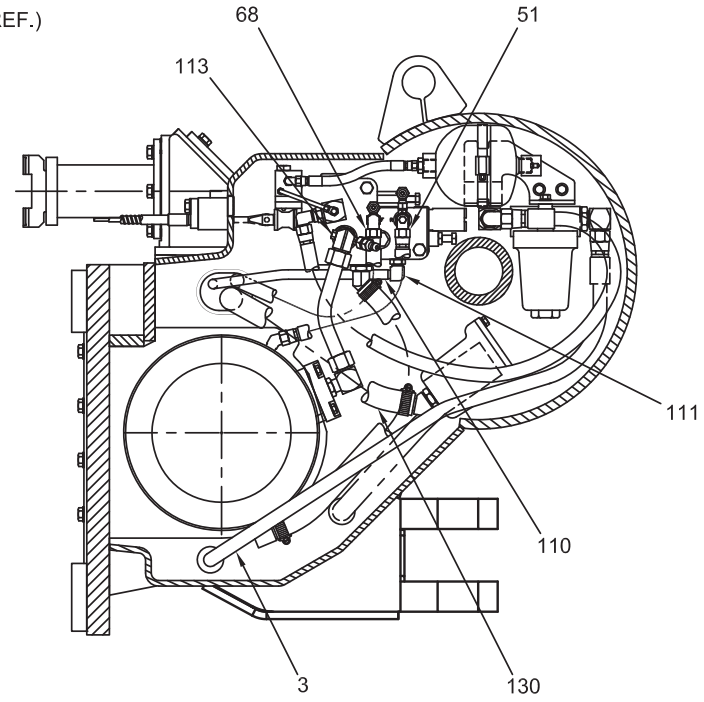
*a Use 273338W Pipe Thread Sealant
*b Use 318701W Adhesive
*c Use 236308W Loctite

Hydraulic Group, Power Controls

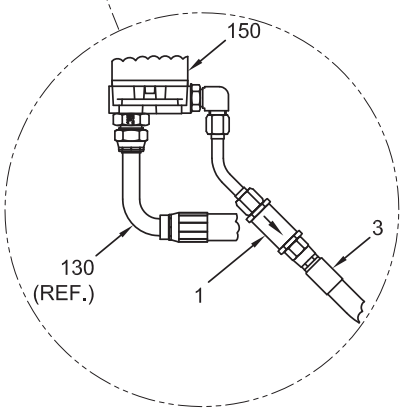
Case Quadtrac (R39), 1650L (R40)
First Used on S/N AW6G-1939
Page 1 of 2

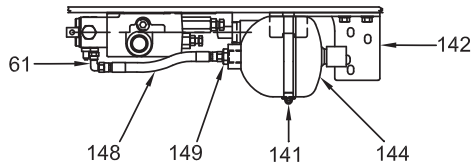


FRONT VIEW
PUMP HOSES

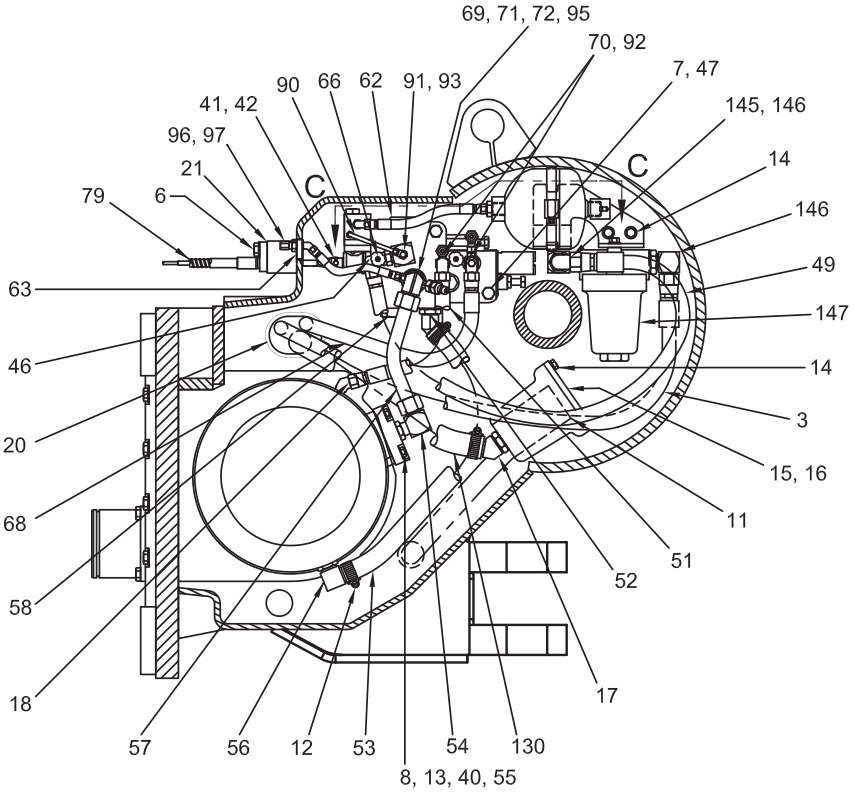


LEFT SIDE VIEW
LUBE FOR DROP BOX





VIEW C-C



Recommended Service Kit		
Item	Kit No.	Section
16, 147 (3001363W)	2311167	5-1
8, 16, 21	2302729W	5-1

Hydraulic Group, Power Controls

Case Quadtrac (R39), 1650L (R40)
First Used on S/N AW6G-1939
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
3		2300767W	Assembly, Hose	1
6		2303902W	Screw, Flanged	1
7		15158W	Washer	3
8		196022W	Gasket	1
11		219172W	Strainer	1
12		2312581	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	6
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
46		16989W	Fitting	1
47		198385W	Capscrew	3
49		2301844W	Assembly, Hose	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
66		2305986W	Setscrew	2
68		2300767W	Assembly, Hose	1

Item		Part No.	Description	Qty
69		R330325	Coupler	1
70		2314853	Coupler	2
71		209790	Fitting	1
72		2314190	Fitting	1
79		2305382W	Cable, Push Pull	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Assembly, Fitting	2
93		14500W	Fitting	1
95		14668W	Fitting	1
96	*c	16463W	Fitting	1
97		140288W	Assembly, Hose	1
110		109002W	Assembly, Hose	1
111	*d	17689W	Fitting	1
	*e	23396	Fitting	1
113	*b	209511	Fitting	1
130		2305394W	Assembly, Hose	1
141		2302109W	Clamp	1
142		2305144W	Bracket, Mounting	1
144		R16271	Accumulator	1
145		16989W	Fitting	1
146		16559W	Fitting	2
147		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
148		383892W	Assembly, Hose	1
149		222381W	Fitting	1
150		2302963W	Assembly, Gear Pump (3-182)	1

*a Use 246108W Pipe Thread Sealant
*b Use 257291W Adhesive
*c Use 236308W Loctite
*d Last Used on S/N AW6G-1867
*e First Used on S/N AW6G-1868

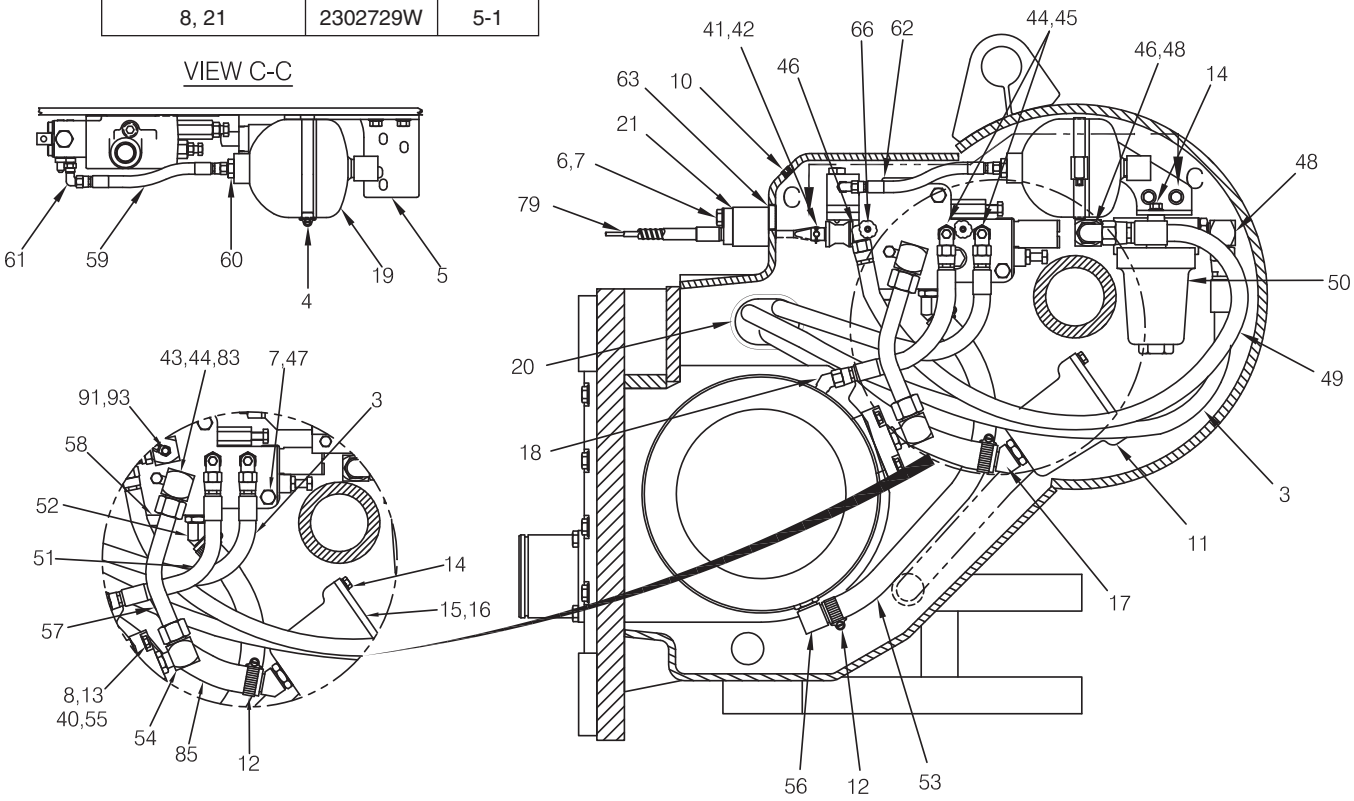
Hydraulic Group, Power Controls

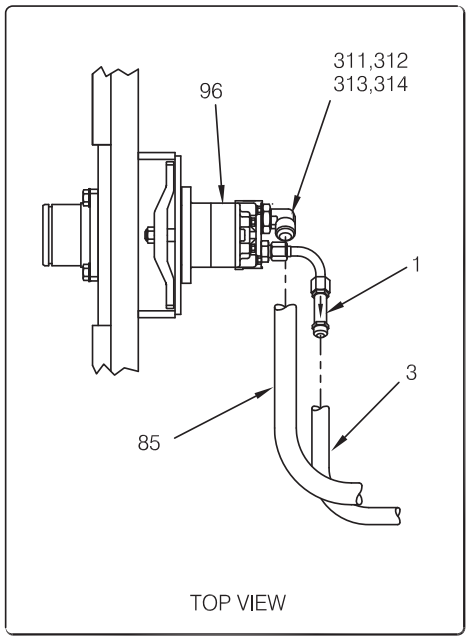
Case 1850K (R49)

Used on S/N AW6G-1028 through S/N AW6G-1118

Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
16, 50 (3001363W)	2311394 2311167	5-1
8, 21	2302729W	5-1





Hydraulic Group, Power Controls

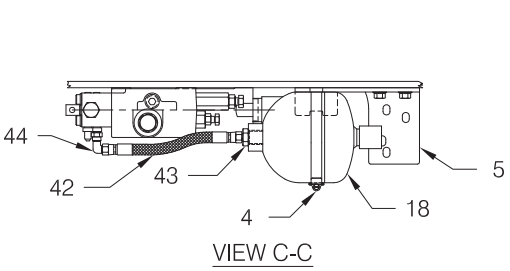
Case 1850K (R49)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	2
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
10		2305987W	Setscrew	2
11		219172W	Strainer	1
12		209639W	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	8
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
19		R16271	Accumulator	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
43		225712W	Fitting, Special	1
44		16923W	Fitting	3
45		17777W	Fitting	2
46		16989W	Fitting	2
47		198385W	Capscrew	3
48		16559W	Fitting	2
49		2301844W	Assembly, Hose	1
50		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
59		383892W	Assembly, Hose	1
60		222381W	Fitting	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
65		15158W	Washer	3
66		2305986W	Setscrew	2
79		- - - - - - - -	Cable (See Handling Gear pages)	Ref
85		230760W	Assembly, Hose	1
95		129563W	Clamp, Strap	1
96		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
300		16909W	Fitting	1
301		2300759W	Assembly, Tube	1
302		16561W	Fitting	1
303		17224W	Fitting	1
304		2300778W	Assembly, Tube	1
305		83857W	Fitting	1
306		2300777W	Assembly, Tube	1
307		14694W	Fitting	1
308		173246W	Clamp	1
309		16597W	Capscrew	2
310		181089W	Clamp	1
311		16561W	Fitting	1
312		17224W	Fitting	1
313		201761W	Fitting	1
314		2301500W	Assembly, Tube	1

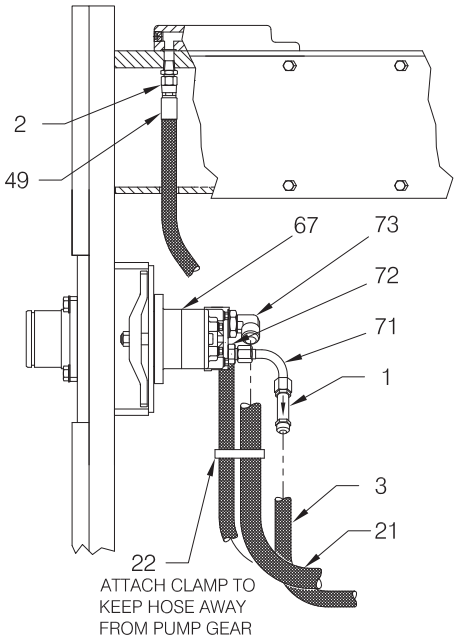
*a Use 273338W Pipe Thread Sealant
*b Use 318701W Thread Lock

Hydraulic Group, Power Controls

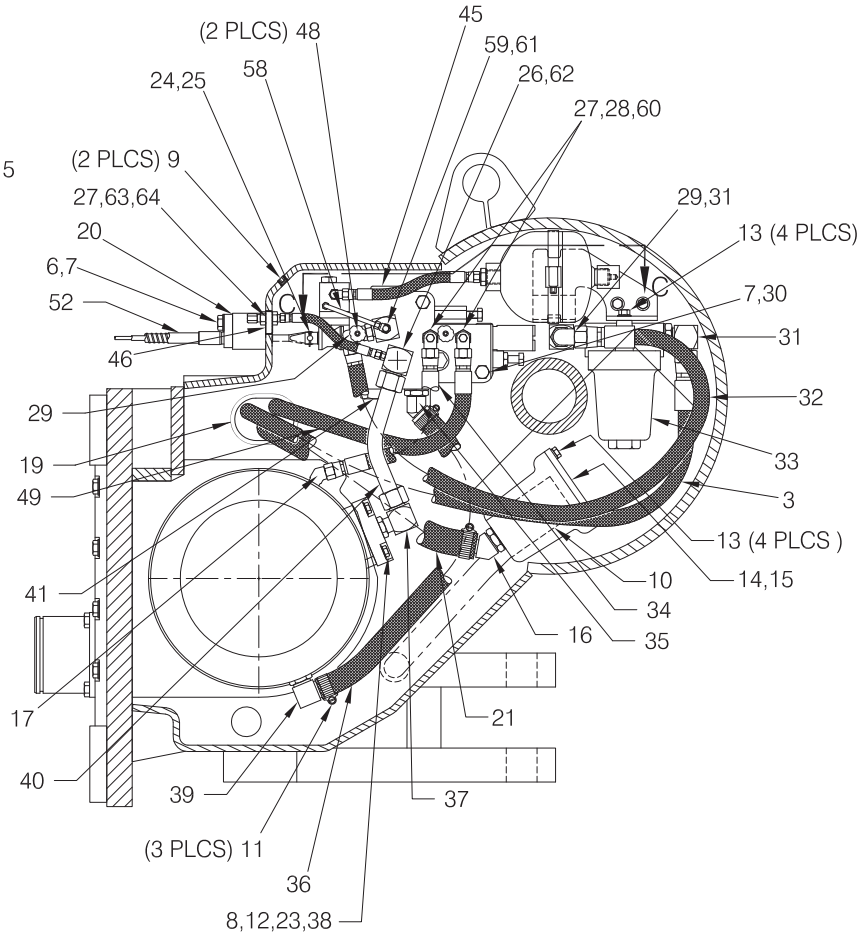
Case 1850K (R49)
First Used on S/N AW6G-1119
Page 1 of 2



VIEW C-C



TOP VIEW



LEFT SIDE VIEW-PLUMBING

Recommended Service Kit		
Item	Kit No.	Section
15, 33 (3001363W)	2311394W 2311167	5-1
8, 15, 20	2302729W	5-1

Hydraulic Group, Power Controls

Case 1850K (R49)
First Used on S/N AW6G-1119
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
9		2305987W	Setscrew	2
10		219172W	Strainer	1
11		209639W	Clamp	3
12		15156W	Washer	5
13	*a	1300780W	Screw, Flanged	8
14		2300936W	Cover	1
15		2300935W	Gasket	1
16		2302985W	Fitting	1
17		16568W	Fitting	1
18		R16271	Accumulator	1
19		24257	Trim	AR
20		303946W	Gasket	1
21		2300760W	Assembly, Hose	1
22		129563W	Clamp	1
23		279392W	Block	1
24		139W	Pin, Rod End	1
25		15212W	Pin	1
26		225712W	Fitting	1
27		16923W	Fitting	3
28		17777W	Fitting	2
29		16989W	Fitting	2
30		198385W	Capscrew	3
31		16559W	Fitting	2
32		2301844W	Assembly, Hose	1
33		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1

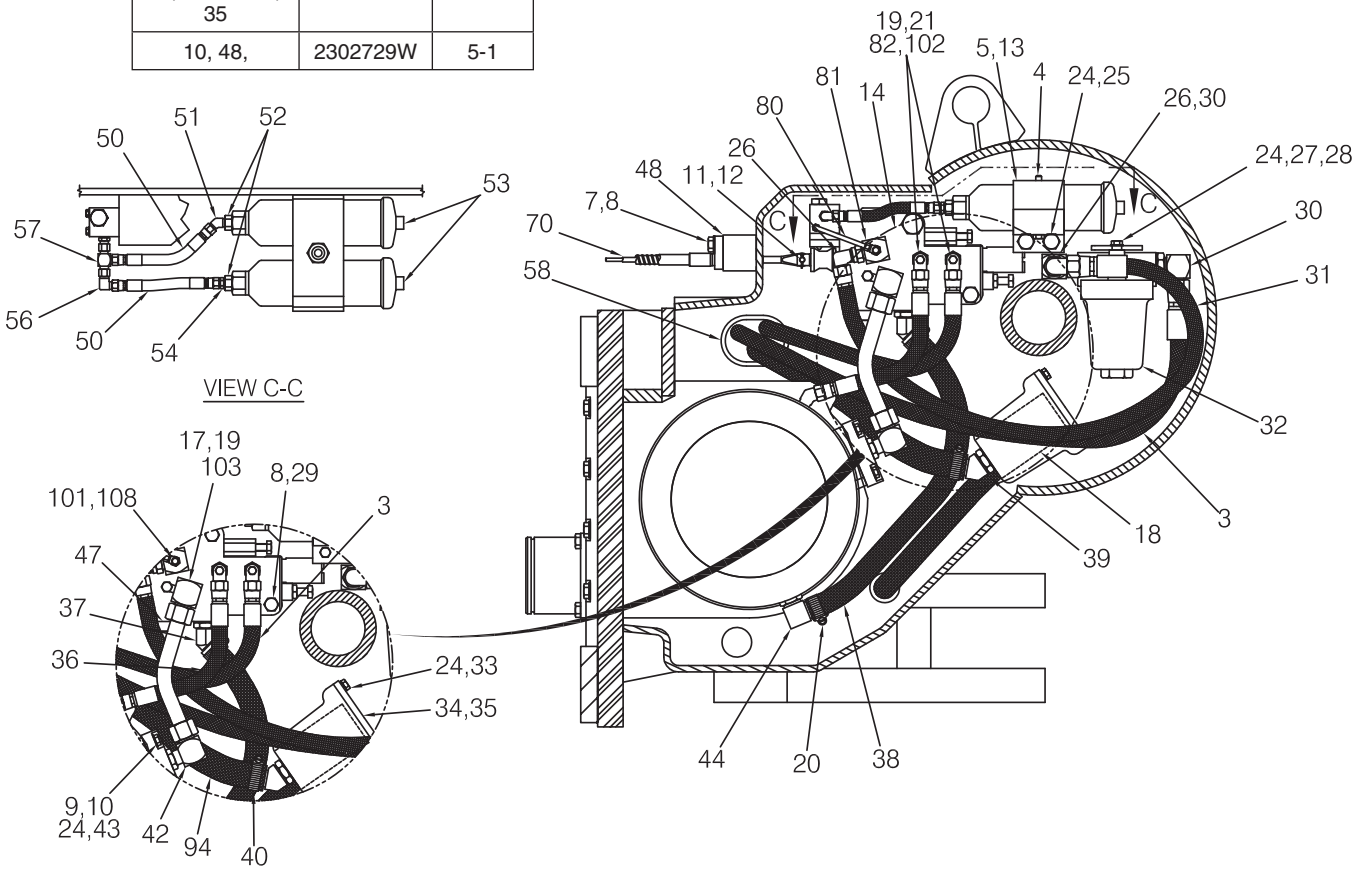
Item		Part No.	Description	Qty
34		133943W	Assembly, Hose	1
35		2300776W	Fitting	1
36		2300761W	Assembly, Hose	1
37		16948W	Fitting	1
38		16828W	Capscrew	2
39		2300774W	Fitting	1
40		2300762W	Assembly, Tube	1
41		226450W	Assembly, Valve	1
42		383892W	Assembly, Hose	1
43		222381W	Fitting	1
44		16987W	Fitting	1
45		2300301W	Valve, Control (3-52)	1
46	*b	2304823W	Plug	1
47		15158W	Washer	3
48		2305986W	Setscrew	2
49		2300767W	Assembly, Hose	1
52		- - - - - - - -	Cable (See Handling Gear pages)	Ref
58		277663W	Assembly, Tube	1
59		2301843W	Fitting	1
60		2300771W	Assembly, Fitting	2
61		14500W	Fitting	1
62		14668W	Fitting	1
63	*c	16445W	Fitting	1
64		140288W	Assembly, Hose	1
67		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
71		2301684W	Assembly, Tube	1
72		16909W	Fitting	1
73		16561W	Fitting	1

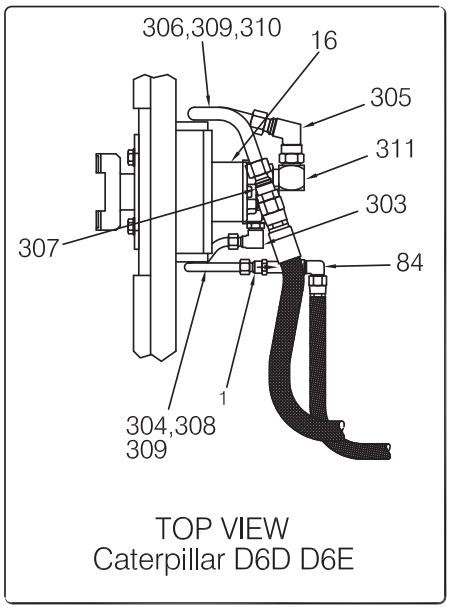
*a Use 273338W Pipe Thread Sealant
*b Use 318701W Adhesive
*c Use 236308W Loctite

Hydraulic Group, Power Controls

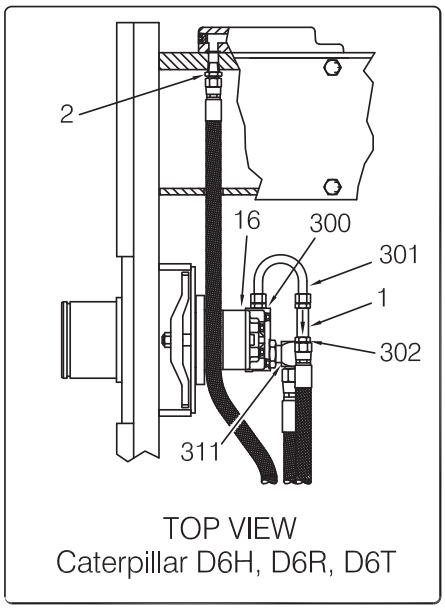
Caterpillar D6D, D6E, D6H, D6R Series I, II, III, and D6T (C43, C50, C71, C480, C481)
Last Used on S/N AW6G-1027
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
32 (3001363W), 35	2311394	5-1
10, 48,	2302729W	5-1





TOP VIEW
Caterpillar D6D D6E



TOP VIEW
Caterpillar D6H, D6R, D6T

Hydraulic Group, Power Controls

Caterpillar D6D, D6E, D6H, D6R Series I, II, III, and D6T (C43, C50, C71, C480, C481)
Last Used on S/N AW6G-1027

Item	Part No.	Description	Qty
1	2300758W	Valve, Check	1
2	17315W	Fitting	1
3	2300767W	Assembly, Hose	2
4	18542W	Capscrew	1
5	267487W	Bracket	1
7	16829W	Capscrew	1
8	15158W	Washer	4
9	279392W	Block	1
10	196022W	Gasket	1
11	139W	Pin	1
12	15212W	Pin	1
13	267488W	Plate	1
14	2300301W	Valve, Control (3-52)	1
16	- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
17	225712W	Fitting	1
18	219172W	Strainer	1
19	16923W	Fitting	3
20	127045W	Clamp	2
21	17777W	Fitting	2
23	344839W	Spacer	1
24	15156W	Washer	11
25	194090W	Capscrew	2
26	16989W	Fitting	2
27	16598W	Capscrew	2
28	15176W	Washer	2
29	198385W	Capscrew	3
30	16559W	Fitting	2
31	2301844W	Assembly, Hose	1
32	2301875W	Assembly, Filter	1
	3001363W	. Element/O-Ring	1
	55468W	. . O-Ring	1
33	16805W	Capscrew	4
34	2300936W	Cover	1
35	2300935W	Gasket	1
36	133943W	Assembly, Hose	1
37	2300776W	Fitting	1
38	2300761W	Assembly, Hose	1
39	276090W	Fitting	1
40	130845W	Clamp	1
42	16948W	Fitting	1
43	16828W	Capscrew	2
44	2300774W	Fitting	1

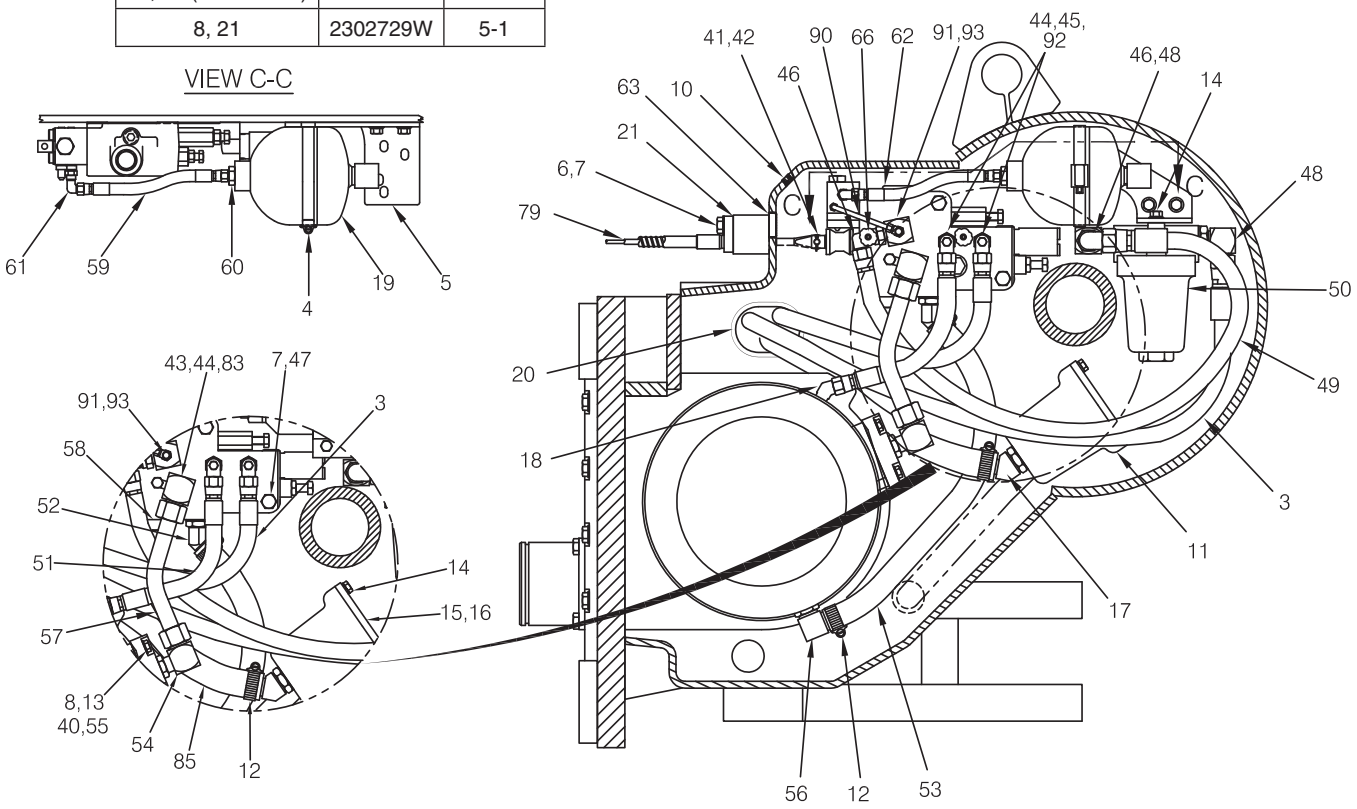
Item		Part No.	Description	Qty
45		2300762W	Assembly, Tube	1
46		16568W	Fitting	1
47		226450W	Assembly, Valve	1
48		303946W	Gasket	1
50		217754W	Assembly, Hose	2
51		14539W	Fitting	1
52		327611W	Fitting	2
53	*a	327610W	Accumulator	2
54		14669W	Fitting	1
56		16987W	Fitting	1
57		17059W	Fitting	1
58		24257	Trim	AR
70		- - - - - - - -	Cable (See Handling Gear pages)	Ref
80	*c	277663W	Assembly, Tube	1
81	*b,*c	2301843W	Fitting	1
82	*b,*c	2300771W	Fitting	2
84	*b	16989W	Fitting	1
93	*c	14500W	Fitting	2
94	*b,*c	2300760W	Assembly, Hose	1
101	*b	2301843W	Fitting	1
102	*b	2300771W	Fitting	2
103	*b	14500W	Fitting	2
300		16909W	Fitting	1
301		2300759W	Assembly, Tube	1
302		16561W	Fitting	1
303		17224W	Fitting	1
304		2300778W	Assembly, Tube	1
305		83857W	Fitting	1
306		2300777W	Assembly, Tube	1
307		14694W	Fitting	1
308		173246W	Clamp	1
309		16597W	Capscrew	2
310		181089W	Clamp	1
311		16561W	Fitting	1

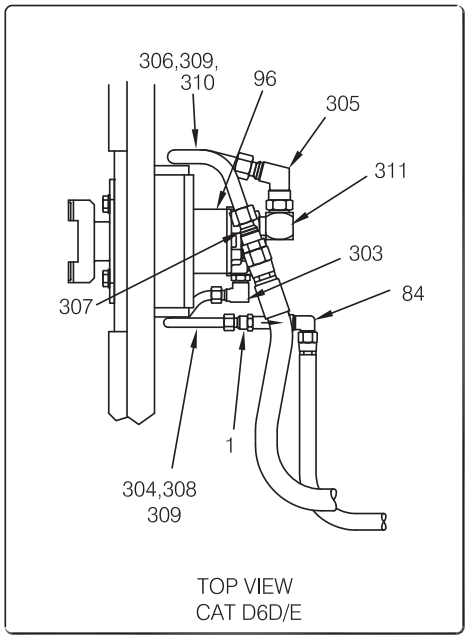
*a Use 2300181W Charge Valve; Refer to Service Bulletin A0-Z-28 R4 in Section 7.
*b Caterpilllar D6D, D6E (C43)
*c Caterpillar D6H (C480, C481), Caterpillar D6R, D6T (C50, C71)

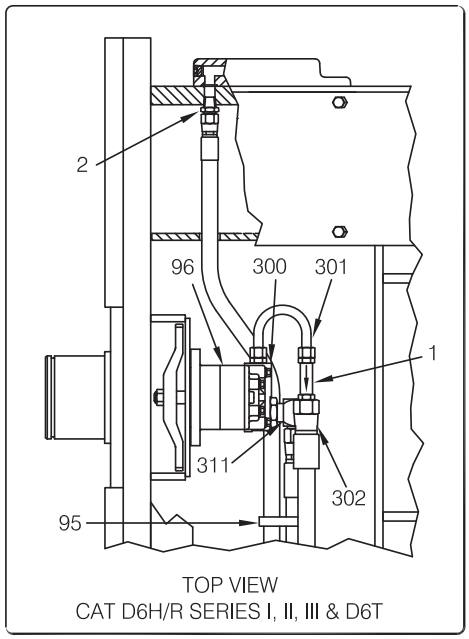
Hydraulic Group, Power Controls

Caterpillar D6D, D6E, D6H, D6R Series I, II, III, and D6T (C43, C50, C71, C480, C481)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
16, 50 (3001363W)	2311167	5-1
8, 21	2302729W	5-1







Hydraulic Group, Power Controls

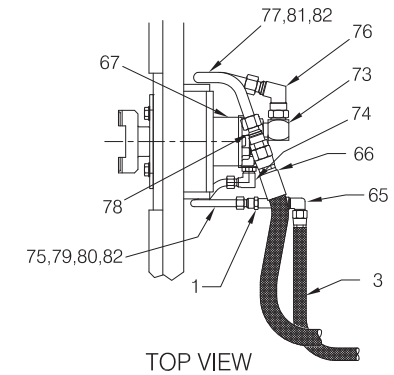
Caterpillar D6D, D6E, D6H, D6R Series I, II, III, and D6T (C43, C50, C71, C480, C481)
Used on S/N AW6G-1028 through S/N AW6G-1118

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	2
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
10		2305987W	Setscrew	2
11		219172W	Strainer	1
12		209639W	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	8
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
19		R16271	Accumulator	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
43		225712W	Fitting, Special	1
44		16923W	Fitting	3
45		17777W	Fitting	2
46		16989W	Fitting	2
47		198385W	Capscrew	3
48		16559W	Fitting	2
49		2301844W	Assembly, Hose	1
50		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
59		383892W	Assembly, Hose	1
60		222381W	Fitting	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
65		15158W	Washer	3
66		2305986W	Setscrew	2
79		- - - - - - - -	Cable (See Handling Gear pages)	Ref
83		14500W	Fitting	1
84		16989W	Fitting	1
85		230760W	Assembly, Hose	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Fitting	1
93		14500W	Fitting	1
95		129563W	Clamp, Strap	1
96		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
300		16909W	Fitting	1
301		2300759W	Assembly, Tube	1
302		16561W	Fitting	1
303		17224W	Fitting	1
304		2300778W	Assembly, Tube	1
305		83857W	Fitting	1
306		2300777W	Assembly, Tube	1
307		14694W	Fitting	1
308		173246W	Clamp	1
309		16597W	Capscrew	2
310		181089W	Clamp	1
311		16561W	Fitting	1

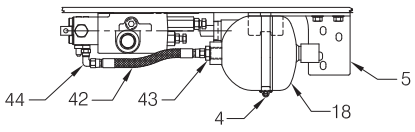
*a Use 273338W Pipe Thread Sealant
*b Use 318701W Thread Lock

Hydraulic Group, Power Controls

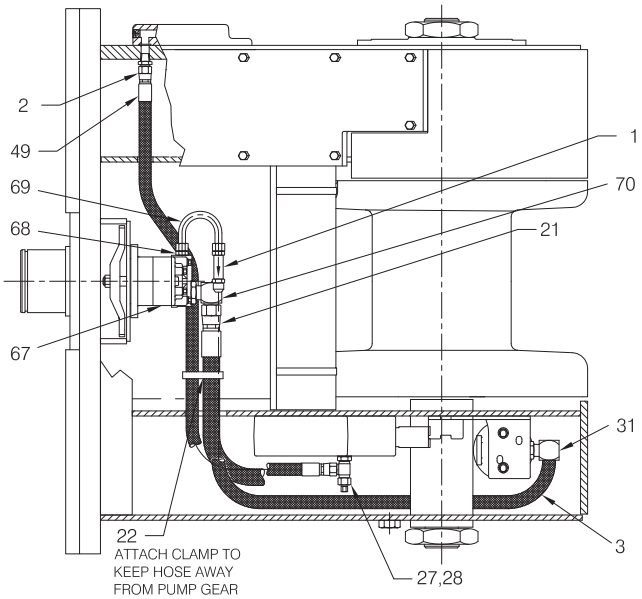
Caterpillar D6D, D6E, D6G, D6H, D6N, D6R Series I, II, III, and D6T
(C43, C72, C480, C481, C78, C81, C47, C50, C71)
Used on S/N AW6G-1119 through S/N AW6G-1938
Page 1 of 2



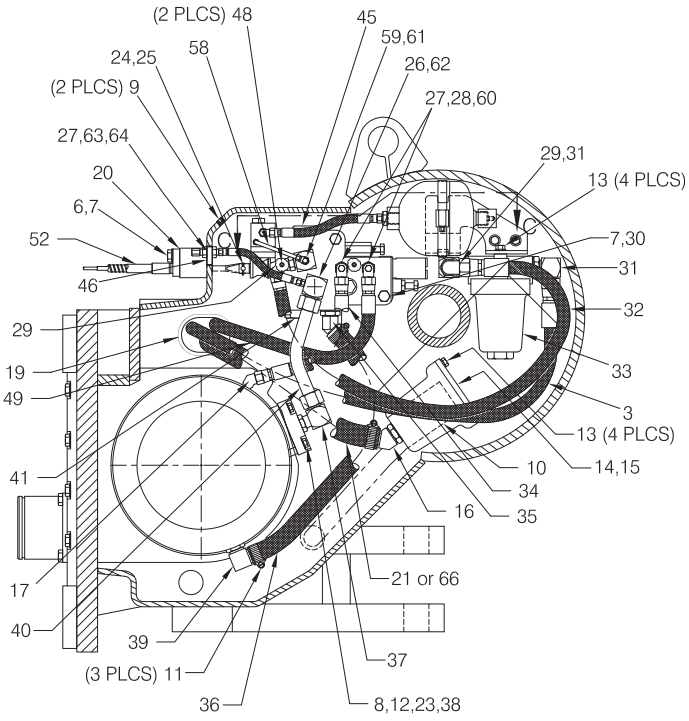
TOP VIEW
FOR D6T (C71), D6R SERIES I, II, III (C50, C71)
AND D6H (C480, C481)ONLY



VIEW C-C



TOP VIEW



LEFT SIDE VIEW-PLUMBING

Recommended Service Kit		
Item	Kit No.	Section
15, 33 (3001363W)	2311167	5-1
8, 15, 20	2302729W	5-1

Hydraulic Group, Power Controls

Caterpillar D6D, D6E, D6G, D6H, D6N, D6R Series I, II, III, and D6T
(C43, C72, C480, C481, C78, C81, C47, C50, C71)
Used on S/N AW6G-1119 through S/N AW6G-1938
Page 2 of 2

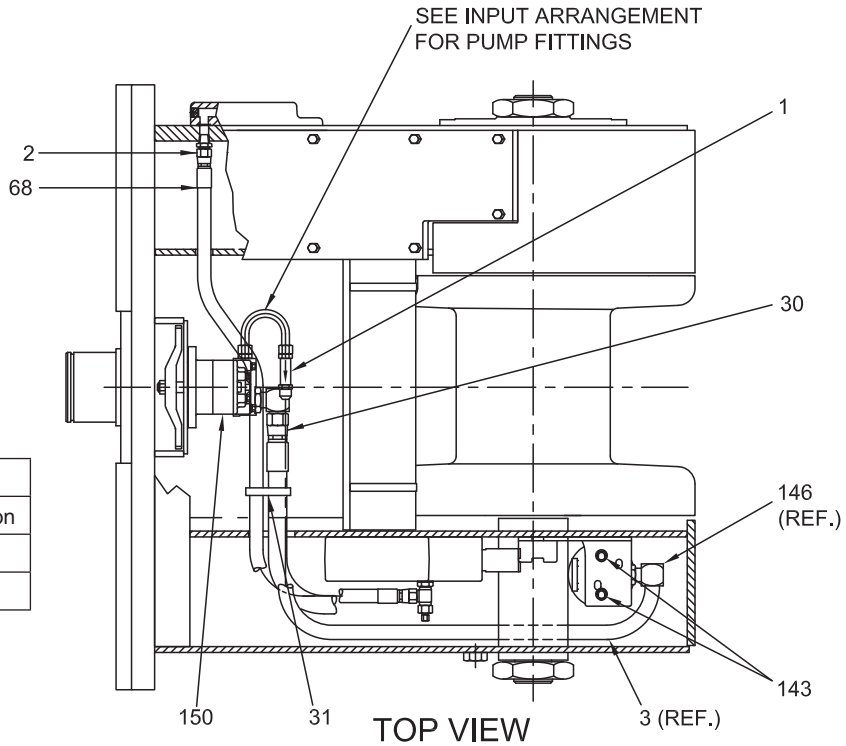
Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
9		2305987W	Setscrew	2
10		219172W	Strainer	1
11		209639W	Clamp	3
12		15156W	Washer	5
13	*a	1300780W	Screw, Flanged	8
14		2300936W	Cover	1
15		2300935W	Gasket	1
16		2302985W	Fitting	1
17		16568W	Fitting	1
18		R16271	Accumulator	1
19		24257	Trim	AR
20		303946W	Gasket	1
21	*d	2300760W	Assembly, Hose	1
22	*d	129563W	Clamp	1
23		279392W	Block	1
24		139W	Pin, Rod End	1
25		15212W	Pin	1
26		225712W	Fitting	1
27		16923W	Fitting	3
28		17777W	Fitting	2
29		16989W	Fitting	2
30		198385W	Capscrew	3
31		16559W	Fitting	2
32		2301844W	Assembly, Hose	1
33		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
34		133943W	Assembly, Hose	1
35		2300776W	Fitting	1
36		2300761W	Assembly, Hose	1
37		16948W	Fitting	1
38		16828W	Capscrew	2
39		2300774W	Fitting	1
40		2300762W	Assembly, Tube	1
41		226450W	Assembly, Valve	1
42		383892W	Assembly, Hose	1
43		222381W	Fitting	1
44		16987W	Fitting	1
45		2300301W	Valve, Control (3-52)	1
46	*b	2304823W	Plug	1
47		15158W	Washer	3
48		2305986W	Setscrew	2
49		2300767W	Assembly, Hose	1
52		- - - - - - - -	Cable (See Handling Gear pages)	Ref
58		277663W	Assembly, Tube	1
59		2301843W	Fitting	1
60		2300771W	Assembly, Fitting	2
61		14500W	Fitting	1
62		14668W	Fitting	1
63	*c	16445W	Fitting	1
64		140288W	Assembly, Hose	1
65		16989W	Fitting	1
66		2300760W	Assembly, Hose	1
67		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
68	*d	16909W	Fitting	1
69	*d	2300759W	Assembly, Tube	1
70	*d	16561W	Fitting	1
73		16561W	Fitting	1
74		17224W	Fitting	1
75		2300778W	Assembly, Tube	1
76		83857W	Fitting	1
77		2300777W	Assembly, Tube	1
78		14694W	Fitting	1
79		136516W	Clamp	1
80		16597W	Capscrew	2
81		181089W	Clamp	1
82		15156W	Washer	2

*a Use 273338W Pipe Thread Sealant
*b Use 318701W Adhesive
*c Use 236308W Loctite
*d Caterpillar D6H (C480), D6R Series I, II, III, and D6T (C50, C71)

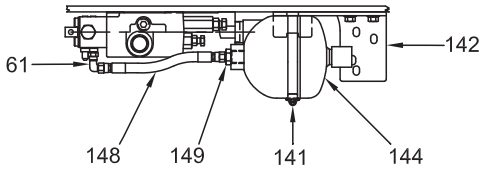
Hydraulic Group, Power Controls

Caterpillar D6D, D6E, D6F PS (C43), D6N (C47), D6H PS (C480), D6H DD (C481),
D6R PS (C50), D6R Series II, III, and D6T (C71), D6G PS (C73), D6N (C47, C78, C81, C810)
First Used on S/N AW6G-1939
Page 1 of 2

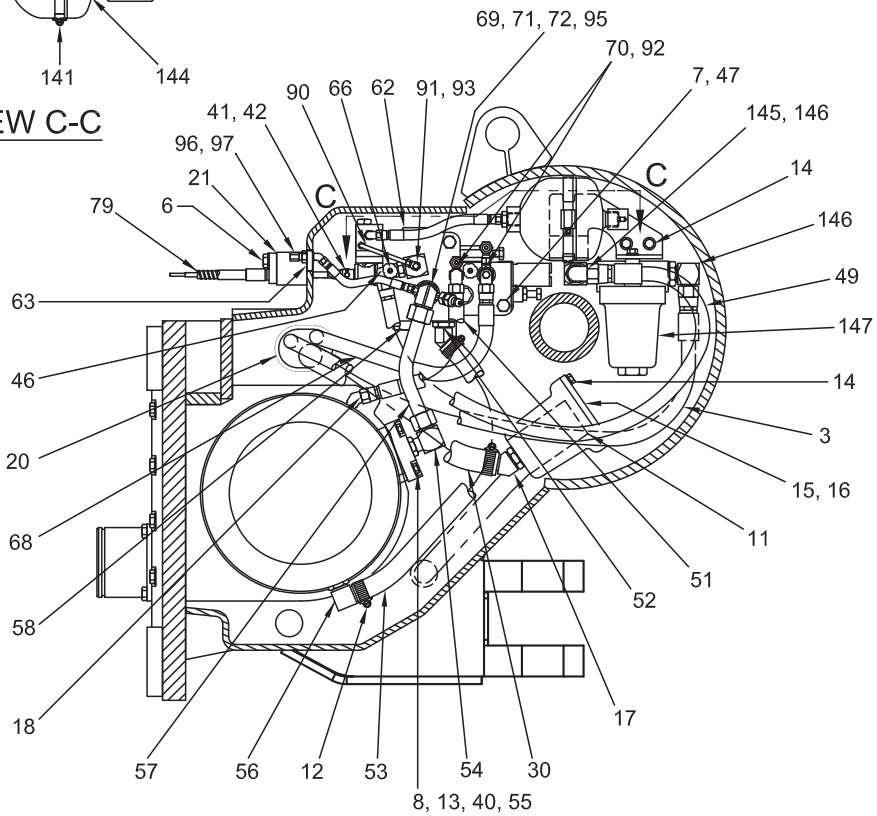
Recommended Service Kit		
Item	Kit No.	Section
16, 147 (3001363W)	2311167	5-1
8, 16, 21	2302729W	5-1



TOP VIEW
LOW INPUT
(CAT D6H/R SHOWN)



VIEW C-C



Hydraulic Group, Power Controls

Caterpillar D6D, D6E, D6F PS (C43), D6N (C47), D6H PS (C480), D6H DD (C481),
D6R PS (C50), D6R Series II, III, and D6T (C71), D6G PS (C73), D6N (C47, C78, C81, C810)
First Used on S/N AW6G-1939

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
6		2303902W	Screw, Flanged	1
7		15158W	Washer	3
8		196022W	Gasket	1
11		219172W	Strainer	1
12		2312581	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	6
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
20		24257	Trim	AR
21		303946W	Gasket	1
30		2300760W	Assembly, Hose	1
31		129563W	Clamp	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
46		16989W	Fitting	1
47		198385W	Capscrew	3
49		2301844W	Assembly, Hose	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
66		2305986W	Setscrew	2
68		2300767W	Assembly, Hose	1
69		R330325	Coupler	1
70		2314853	Coupler	2
71		209790	Fitting	1
72		2314190	Fitting	1
79		See Chart Below	Cable, Push Pull	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Assembly, Fitting	2
93		14500W	Fitting	1
95		14668W	Fitting	1
96	*c	16463W	Fitting	1
97		140288W	Assembly, Hose	1
141		2302109W	Clamp	1
142		2305144W	Bracket, Mounting	1
143		1300780W	Screw, Flanged	2
144		R16271	Accumulator	1
145		16989W	Fitting	1
146		16559W	Fitting	2
147		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
148		383892W	Assembly, Hose	1
149		222381W	Fitting	1
150		2302963W	Assembly, Gear Pump (3-182)	1

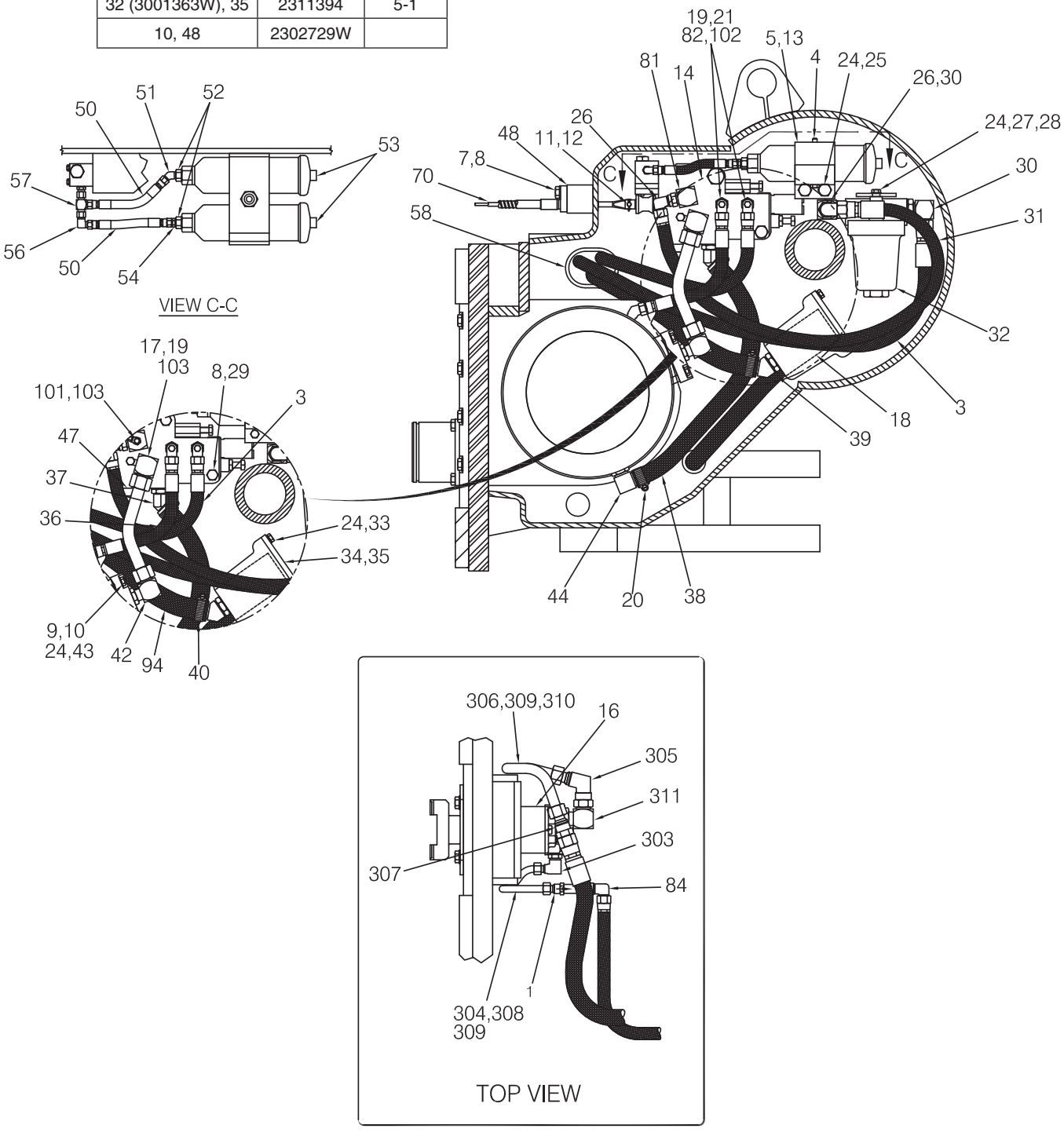
Item 79 (Qty. 1) Push Pull Cables		
Part No.	Length (Inch)	Tractor
303941W	74	CAT D6D (C43) S/N 3X, 4X, 5X
303943W	91	CAT D6N (C47, C78, C81, C810)
303945W	96	CAT D6H (C480, C481), D6R Series I (C50), D6R Series II (C71)

*a Use 246108W Pipe Thread Sealant
*b Use 257291W Adhesive
*c Use 236308W Loctite

Hydraulic Group, Power Controls

Dresser/Dressta TD15E (H44, H45)
Last Used on S/N AW6G-1027
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
32 (3001363W), 35	2311394	5-1
10, 48	2302729W	



Hydraulic Group, Power Controls

Dresser/Dressta TD15E (H44, H45)
Last Used on S/N AW6G-1027
Paoge 2 of 2

Item	Part No.	Description	Qty
1	2300758W	Valve, Check	1
2	17315W	Fitting	1
3	2300767W	Assembly, Hose	2
4	18542W	Capscrew	1
5	267487W	Bracket	1
7	16829W	Capscrew	1
8	15158W	Washer	4
9	279392W	Block	1
10	196022W	Gasket	1
11	139W	Pin	1
12	15212W	Pin	1
13	267488W	Plate	1
14	2300301W	Valve, Control (3-52)	1
16	- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
17	225712W	Fitting	1
18	219172W	Strainer	1
19	16923W	Fitting	3
20	127045W	Clamp	2
21	17777W	Fitting	2
23	344839W	Spacer	1
24	15156W	Washer	11
25	194090W	Capscrew	2
26	16989W	Fitting	2
27	16598W	Capscrew	2
28	15176W	Washer	2
29	198385W	Capscrew	3
30	16559W	Fitting	2
31	2301844W	Assembly, Hose	1
32	2301875W	Assembly, Filter	1
	3001363W	. Element/O-Ring	1
	55468W	. . O-Ring	1
33	16805W	Capscrew	4
34	2300936W	Cover	1
35	2300935W	Gasket	1
36	133943W	Assembly, Hose	1
37	2300776W	Fitting	1
38	2300761W	Assembly, Hose	1
39	276090W	Fitting	1
40	130845W	Clamp	1

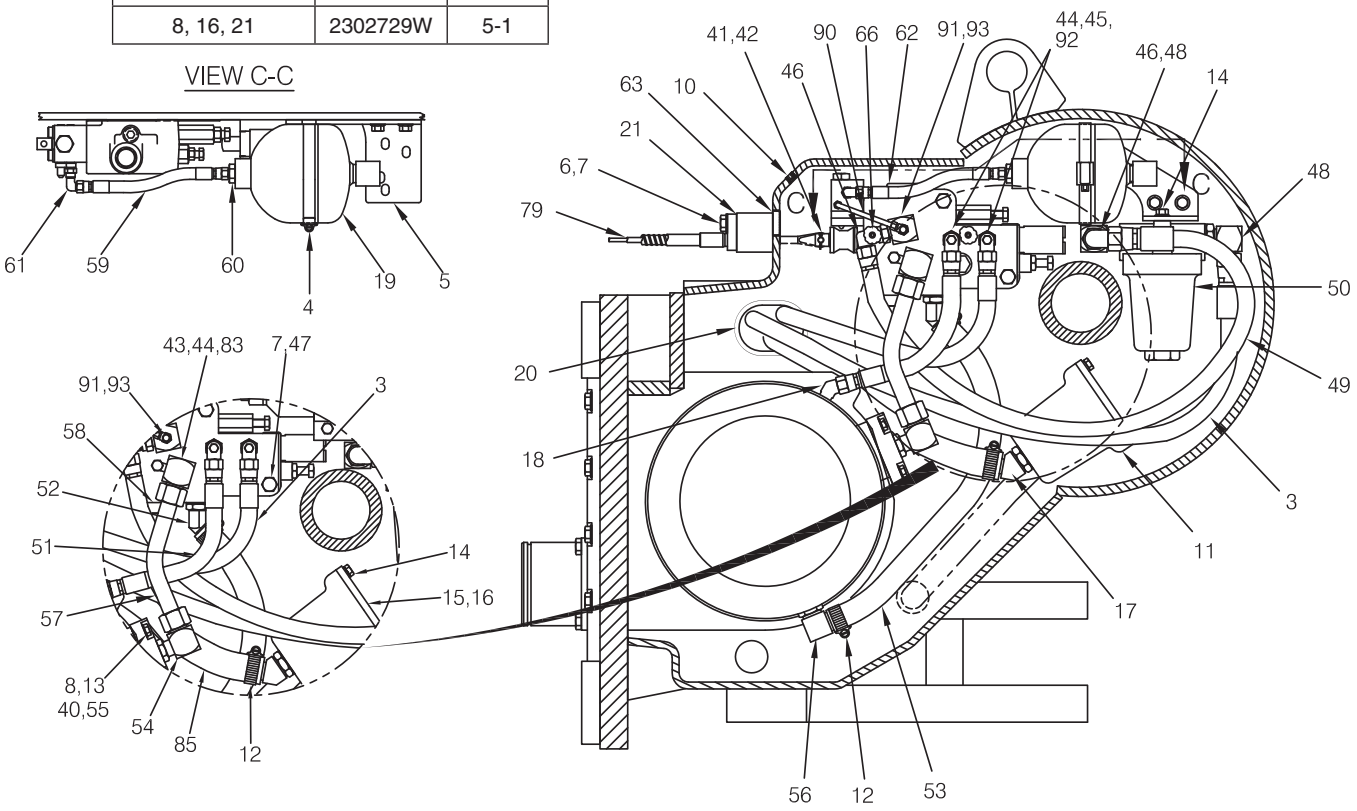
Item		Part No.	Description	Qty
42		16948W	Fitting	1
43		16828W	Capscrew	2
44		2300774W	Fitting	1
45		2300762W	Assembly, Tube	1
46		16568W	Fitting	1
47		226450W	Assembly, Valve	1
48		303946W	Gasket	1
50		217754W	Assembly, Hose	2
51		14539W	Fitting	1
52		327611W	Fitting	2
53	*a	327610W	Accumulator	2
54		14669W	Fitting	1
56		16987W	Fitting	1
57		17059W	Fitting	1
58		24257	Trim	AR
70		- - - - - - - -	Cable (See Handling Gear pages)	Ref
81		2301843W	Fitting	1
82		2300771W	Fitting	2
84		16989W	Fitting	1
94		2300760W	Assembly, Hose	1
101		2301843W	Fitting	1
102		2300771W	Fitting	2
103		14500W	Fitting	2
300		16909W	Fitting	1
301		2300759W	Assembly, Tube	1
302		16561W	Fitting	1
303		17224W	Fitting	1
304		2300778W	Assembly, Tube	1
305		83857W	Fitting	1
306		2300777W	Assembly, Tube	1
307		14694W	Fitting	1
308		173246W	Clamp	1
309		16597W	Capscrew	2
310		181089W	Clamp	1
311		16561W	Fitting	1

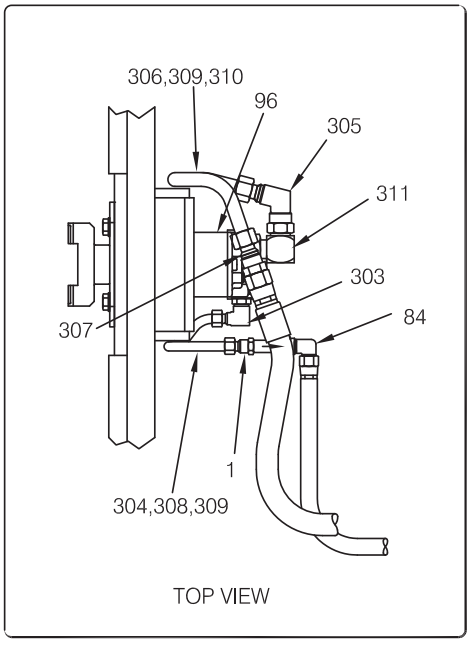
*a Use 2300181W Charge Valve;
Refer to Service Bulletin A0-Z-28 R4
in Section 7.

Hydraulic Group, Power Controls

Dresser/Dressta TD15E, TD15H PS, TD15M (H44, H45, H46, H47)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
16, 50 (3001363W)	2311167	5-1
8, 16, 21	2302729W	5-1





Hydraulic Group, Power Controls

Dresser/Dressta TD15E, TD15H PS, TD15M (H44, H45, H46, H47)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 2 of 2

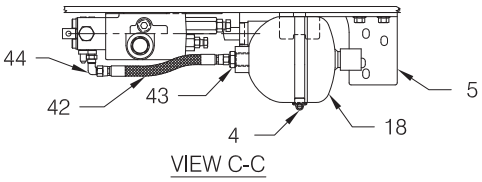
Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	2
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
10		2305987W	Setscrew	2
11		219172W	Strainer	1
12		209639W	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	8
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
19		R16271	Accumulator	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
43		225712W	Fitting, Special	1
44		16923W	Fitting	3
45		17777W	Fitting	2
46		16989W	Fitting	2
47		198385W	Capscrew	3
48		16559W	Fitting	2
49		2301844W	Assembly, Hose	1
50		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
59		383892W	Assembly, Hose	1
60		222381W	Fitting	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
65		15158W	Washer	3
66		2305986W	Setscrew	2
79		- - - - - - - -	Cable (See Handling Gear pages)	Ref
83		14500W	Fitting	1
84		16989W	Fitting	1
85		230760W	Assembly, Hose	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Fitting	1
93		14500W	Fitting	1
96		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
300		16909W	Fitting	1
301		2300759W	Assembly, Tube	1
302		16561W	Fitting	1
303		17224W	Fitting	1
304		2300778W	Assembly, Tube	1
305		83857W	Fitting	1
306		2300777W	Assembly, Tube	1
307		14694W	Fitting	1
308		173246W	Clamp	1
309		16597W	Capscrew	2
310		181089W	Clamp	1
311		16561W	Fitting	1
312		17224W	Fitting	1
313		201761W	Fitting	1
314		2301500W	Assembly, Tube	1

*a Use 273338W Pipe Thread Sealant
*b Use 318701W Thread Lock

Hydraulic Group, Power Controls

Dresser/Dressta TD15E, TD15H PS, TD15M (H44, H45, H46, H47)
Used on S/N AW6G-1119 through S/N AW6G-1938
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
15, 33 (3001363W)	2311167	5-1
8, 15, 20	2302729W	5-1



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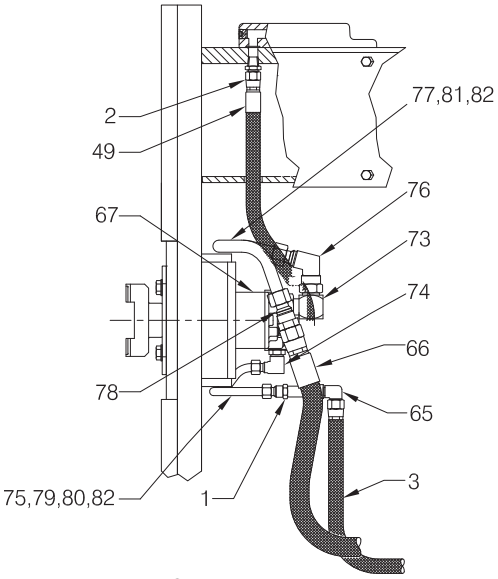
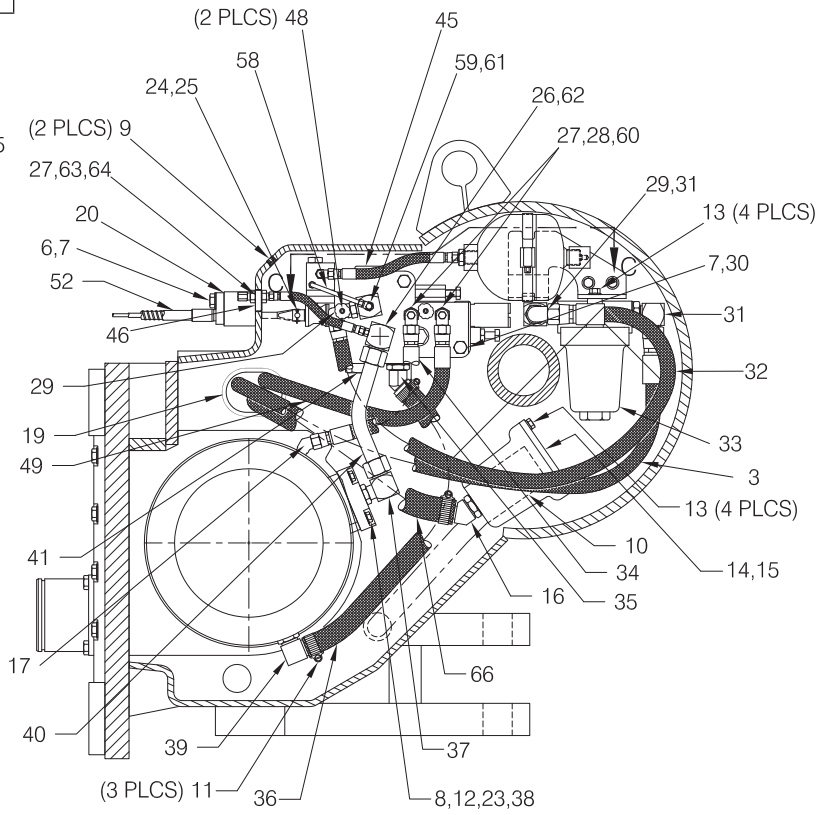


TOP VIEW



LEFT SIDE VIEW-PLUMBING

Hydraulic Group, Power Controls

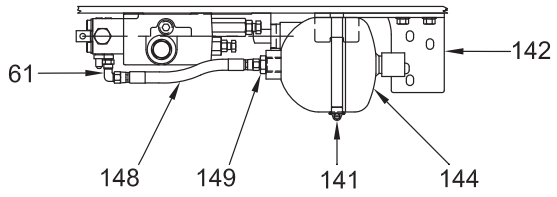
Dresser/Dressta TD15E, TD15H PS, TD15M (H44, H45, H46, H47)
Used on S/N AW6G-1119 through S/N AW6G-1938
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
9		2305987W	Setscrew	2
10		219172W	Strainer	1
11		209639W	Clamp	3
12		15156W	Washer	5
13	*a	1300780W	Screw, Flanged	8
14		2300936W	Cover	1
15		2300935W	Gasket	1
16		2302985W	Fitting	1
17		16568W	Fitting	1
18		R16271	Accumulator	1
19		24257	Trim	AR
20		303946W	Gasket	1
23		279392W	Block	1
24		139W	Pin, Rod End	1
25		15212W	Pin	1
26		225712W	Fitting	1
27		16923W	Fitting	3
28		17777W	Fitting	2
29		16989W	Fitting	2
30		198385W	Capscrew	3
31		16559W	Fitting	2
32		2301844W	Assembly, Hose	1
33		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
34		133943W	Assembly, Hose	1
35		2300776W	Fitting	1
36		2300761W	Assembly, Hose	1
37		16948W	Fitting	1
38		16828W	Capscrew	2
39		2300774W	Fitting	1
40		2300762W	Assembly, Tube	1
41		226450W	Assembly, Valve	1
42		383892W	Assembly, Hose	1
43		222381W	Fitting	1
44		16987W	Fitting	1
45		2300301W	Valve, Control (3-52)	1
46	*b	2304823W	Plug	1
47		15158W	Washer	3
48		2305986W	Setscrew	2
49		2300767W	Assembly, Hose	1
52		- - - - - - - -	Cable (See Handling Gear pages)	Ref
58		277663W	Assembly, Tube	1
59		2301843W	Fitting	1
60		2300771W	Assembly, Fitting	2
61		14500W	Fitting	1
62		14668W	Fitting	1
63	*c	16445W	Fitting	1
64		140288W	Assembly, Hose	1
65		16989W	Fitting	1
66		2300760W	Assembly, Hose	1
67		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
73		16561W	Fitting	1
74		17224W	Fitting	1
75		2300778W	Assembly, Tube	1
76		83857W	Fitting	1
77		2300777W	Assembly, Tube	1
78		14694W	Fitting	1
79		136516W	Clamp	1
80		16597W	Capscrew	2
81		181089W	Clamp	1
82		15156W	Washer	2

*a Use 273338W Pipe Thread Sealant
*b Use 318701W Adhesive
*c Use 236308W Loctite

Hydraulic Group, Power Controls

Dresser/Dressta TD15E PS (H44), TD15E DD (H45), TD15H Tier I PS (H46), TD15H Tier II/TD15M (H47)
First Used on S/N AW6G-1939
Page 1 of 2



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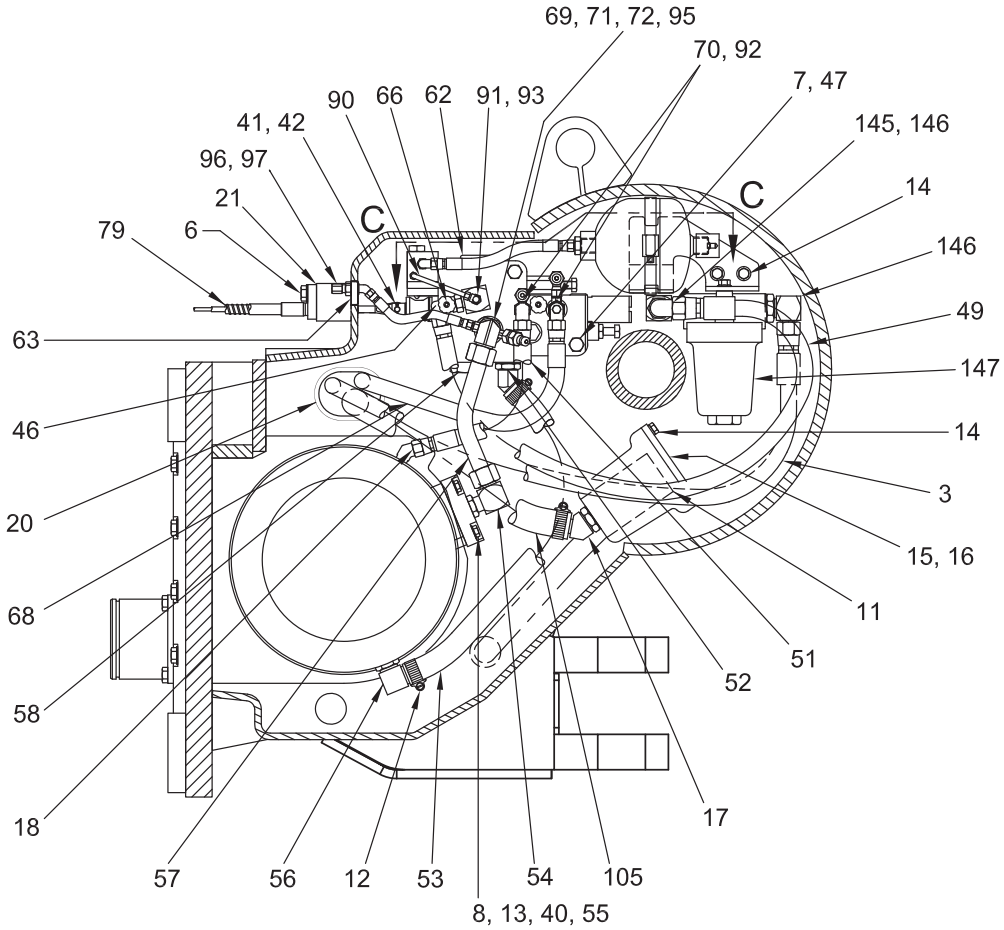


Recommended Service Kit		
Item	Kit No.	Section
16, 147 (3001363W)	2311167	5-1
8, 16, 21	2302729W	5-1

Hydraulic Group, Power Controls

Dresser/Dressta TD15E PS (H44), TD15E DD (H45), TD15H Tier I PS (H46), TD15H Tier II/TD15M (H47)
First Used on S/N AW6G-1939

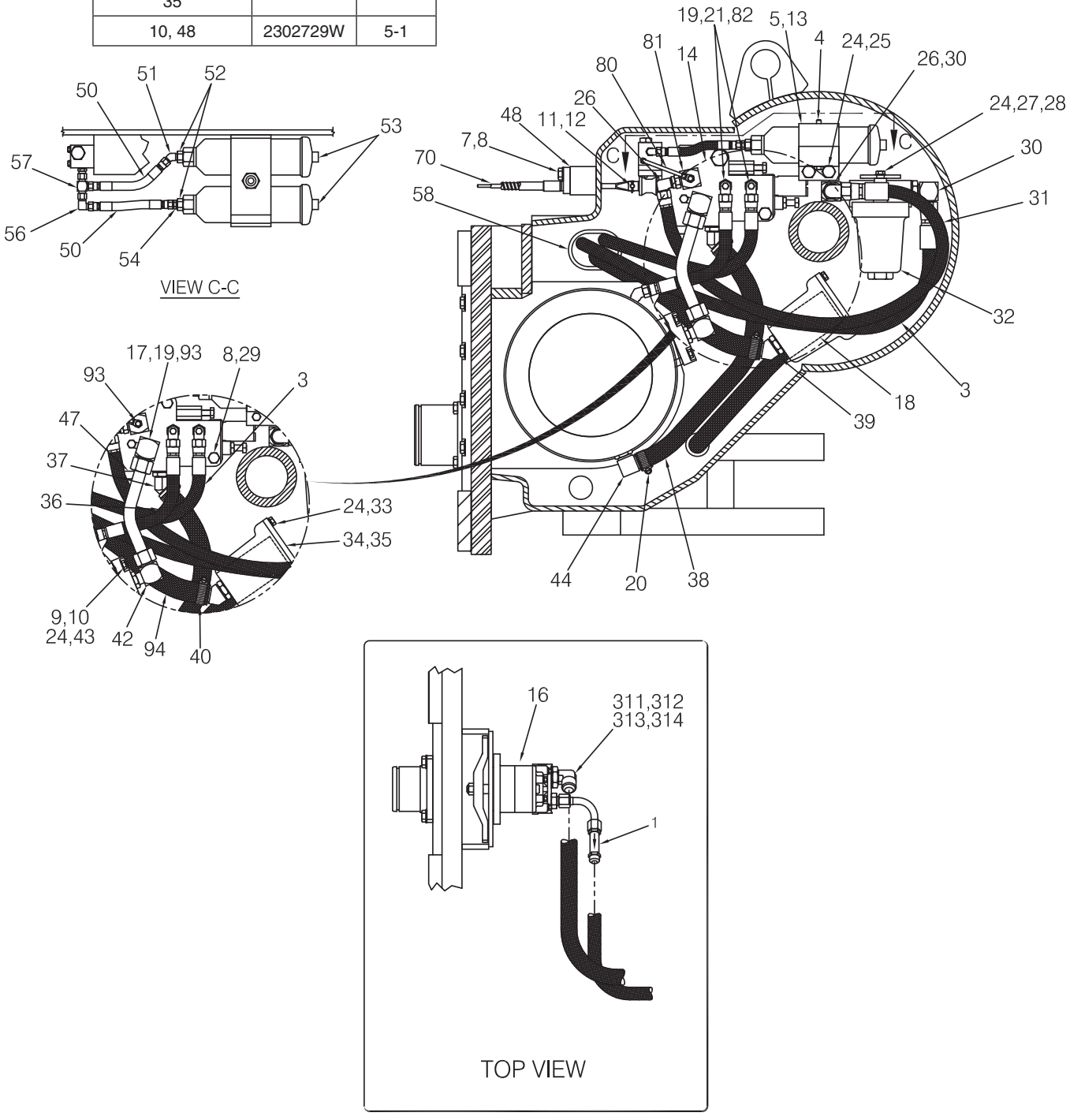
Item		Part No.	Description	Qty
3		2300767W	Assembly, Hose	1
6		2303902W	Screw, Flanged	1
7		15158W	Washer	3
8		196022W	Gasket	1
11		219172W	Strainer	1
12		2312581	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	6
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
46		16989W	Fitting	1
47		198385W	Capscrew	3
49		2301844W	Assembly, Hose	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
66		2305986W	Setscrew	2
68		2300767W	Assembly, Hose	1
69		R330325	Coupler	1
70		2314853	Coupler	2
71		209790	Fitting	1
72		2314190	Fitting	1
79		303944W	Cable, Push Pull	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Assembly, Fitting	2
93		14500W	Fitting	1
95		14668W	Fitting	1
96	*c	16463W	Fitting	1
97		140288W	Assembly, Hose	1
105		2300760W	Assembly, Hose	1
141		2302109W	Clamp	1
142		2305144W	Bracket, Mounting	1
143		1300780W	Screw, Flanged	2
144		R16271	Accumulator	1
145		16989W	Fitting	1
146		16559W	Fitting	2
147		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
148		383892W	Assembly, Hose	1
149		222381W	Fitting	1
150		2302963W	Assembly, Gear Pump (3-182) (Not Shown Here)	1

*a Use 246108W Pipe Thread Sealant
*b Use 257291W Adhesive
*c Use 236308W Loctite

Hydraulic Group, Power Controls

Fiat-Hitachi/New Holland FD/FH14E (A48)
Last Used on S/N AW6G-1027
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
32 (3001363W), 35	2311394	5-1
10, 48	2302729W	5-1



Hydraulic Group, Power Controls

Fiat-Hitachi/New Holland FD/FH14E (A48)
Last Used on S/N AW6G-1027
Page 2 of 2

Item	Part No.	Description	Qty
1	2300758W	Valve, Check	1
2	17315W	Fitting	1
3	2300767W	Assembly, Hose	2
4	18542W	Capscrew	1
5	267487W	Bracket	1
7	16829W	Capscrew	1
8	15158W	Washer	4
9	279392W	Block	1
10	196022W	Gasket	1
11	139W	Pin	1
12	15212W	Pin	1
13	267488W	Plate	1
14	2300301W	Valve, Control (3-52)	1
16	- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
17	225712W	Fitting	1
18	219172W	Strainer	1
19	16923W	Fitting	3
20	127045W	Clamp	2
21	17777W	Fitting	2
23	344839W	Spacer	1
24	15156W	Washer	11
25	194090W	Capscrew	2
26	16989W	Fitting	2
27	16598W	Capscrew	2
28	15176W	Washer	2
29	198385W	Capscrew	3
30	16559W	Fitting	2
31	2301844W	Assembly, Hose	1
32	2301875W	Assembly, Filter	1
	3001363W	. Element/O-Ring	1
	55468W	. . O-Ring	1
33	16805W	Capscrew	4
34	2300936W	Cover	1
35	2300935W	Gasket	1
36	133943W	Assembly, Hose	1
37	2300776W	Fitting	1
38	2300761W	Assembly, Hose	1
39	276090W	Fitting	1
40	130845W	Clamp	1
42	16948W	Fitting	1

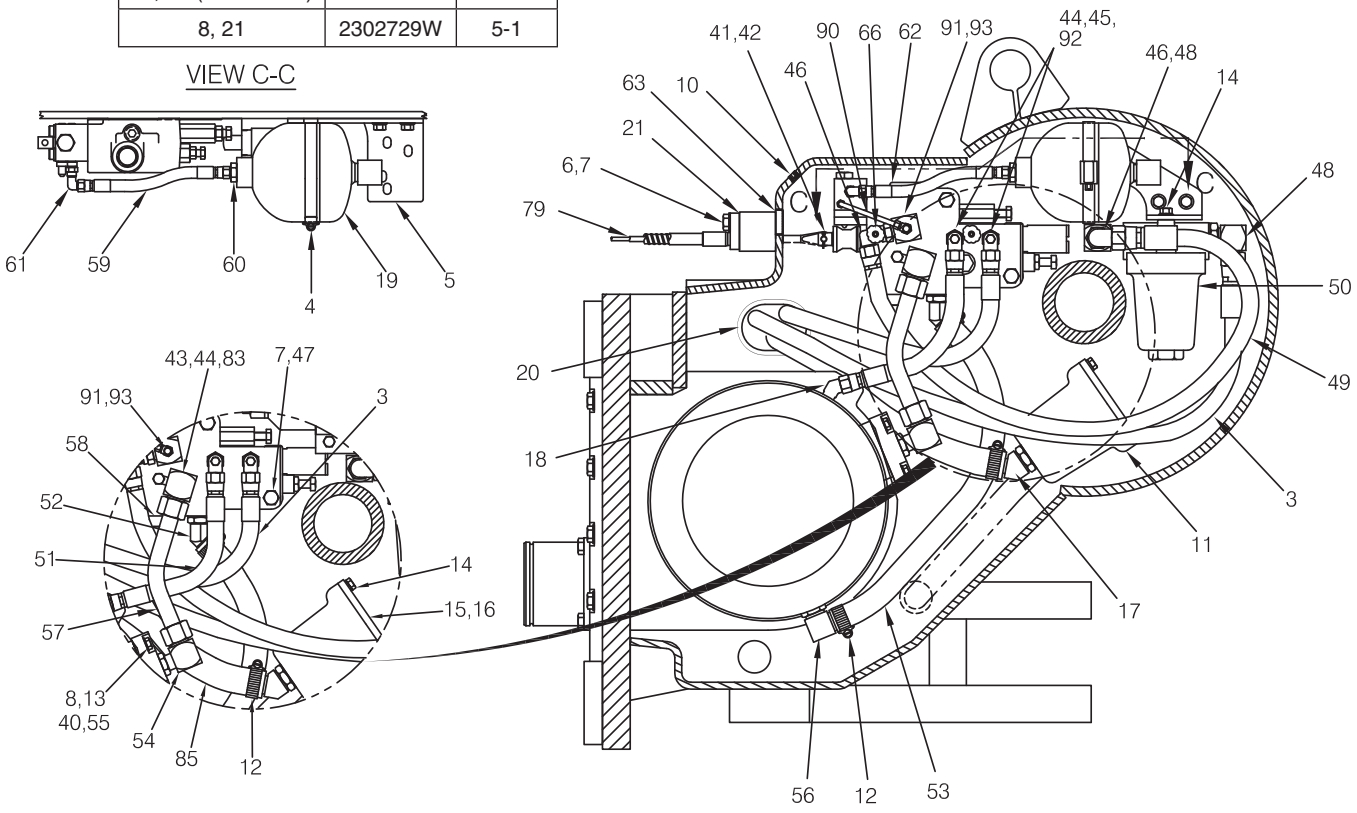
Item		Part No.	Description	Qty
43		16828W	Capscrew	2
44		2300774W	Fitting	1
45		2300762W	Assembly, Tube	1
46		16568W	Fitting	1
47		226450W	Assembly, Valve	1
48		303946W	Gasket	1
50		217754W	Assembly, Hose	2
51		14539W	Fitting	1
52		327611W	Fitting	2
53	*a	327610W	Accumulator	2
54		14669W	Fitting	1
56		16987W	Fitting	1
57		17059W	Fitting	1
58		24257	Trim	AR
70		- - - - - - - -	Cable (See Handling Gear pages)	Ref
80		277663W	Assembly, Tube	1
81		2301843W	Fitting	1
82		2300771W	Fitting	2
93		14500W	Fitting	2
94		2300760W	Assembly, Hose	1
300		16909W	Fitting	1
301		2300759W	Assembly, Tube	1
302		16561W	Fitting	1
303		17224W	Fitting	1
304		2300778W	Assembly, Tube	1
305		83857W	Fitting	1
306		2300777W	Assembly, Tube	1
307		14694W	Fitting	1
308		173246W	Clamp	1
309		16597W	Capscrew	2
310		181089W	Clamp	1
311		16561W	Fitting	1
312		17224W	Fitting	1
313		201761W	Fitting	1
314		2301500W	Assembly, Tube	1

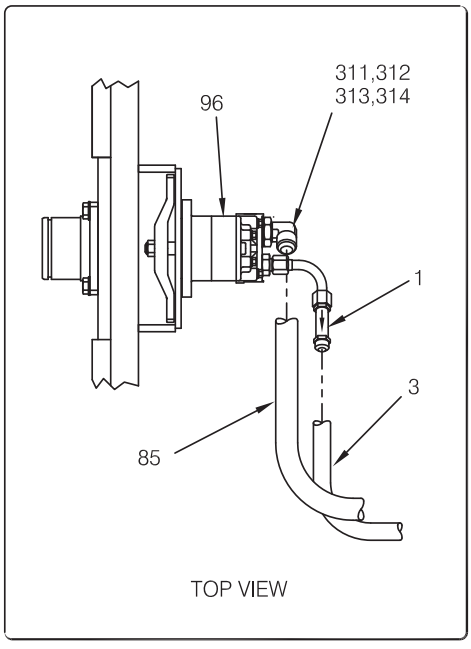
*a Use 2300181W Charge Valve;
Refer to Service Bulletin A0-Z-28 R4
in Section 7.

Hydraulic Group, Power Controls

Fiat-Hitachi/New Holland FD/FH14E, FD 175/195, DX 175/195, DC180 (A48, A49)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
16, 50 (3001363W)	2311167	5-1
8, 21	2302729W	5-1





Hydraulic Group, Power Controls

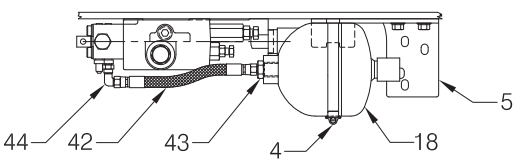
Fiat-Hitachi/New Holland FD/FH14E, FD 175/195, DX 175/195, DC180 (A48, A49)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	2
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
10		2305987W	Setscrew	2
11		219172W	Strainer	1
12		209639W	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	8
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
19		R16271	Accumulator	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
43		225712W	Fitting, Special	1
44		16923W	Fitting	3
45		17777W	Fitting	2
46		16989W	Fitting	2
47		198385W	Capscrew	3
48		16559W	Fitting	2
49		2301844W	Assembly, Hose	1
50		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
59		383892W	Assembly, Hose	1
60		222381W	Fitting	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
65		15158W	Washer	3
66		2305986W	Setscrew	2
79		- - - - - - - -	Cable (See Handling Gear pages)	Ref
83		14500W	Fitting	1
85		230760W	Assembly, Hose	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Fitting	1
93		14500W	Fitting	1
96		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
300		16909W	Fitting	1
301		2300759W	Assembly, Tube	1
302		16561W	Fitting	1
303		17224W	Fitting	1
304		2300778W	Assembly, Tube	1
305		83857W	Fitting	1
306		2300777W	Assembly, Tube	1
307		14694W	Fitting	1
308		173246W	Clamp	1
309		16597W	Capscrew	2
310		181089W	Clamp	1
311		16561W	Fitting	1
312		17224W	Fitting	1
313		201761W	Fitting	1
314		2301500W	Assembly, Tube	1

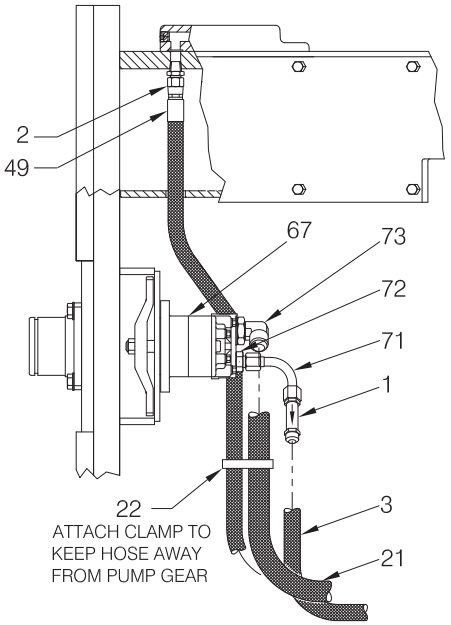
*a Use 273338W Pipe Thread Sealant
*b Use 318701W Thread Lock

Hydraulic Group, Power Controls

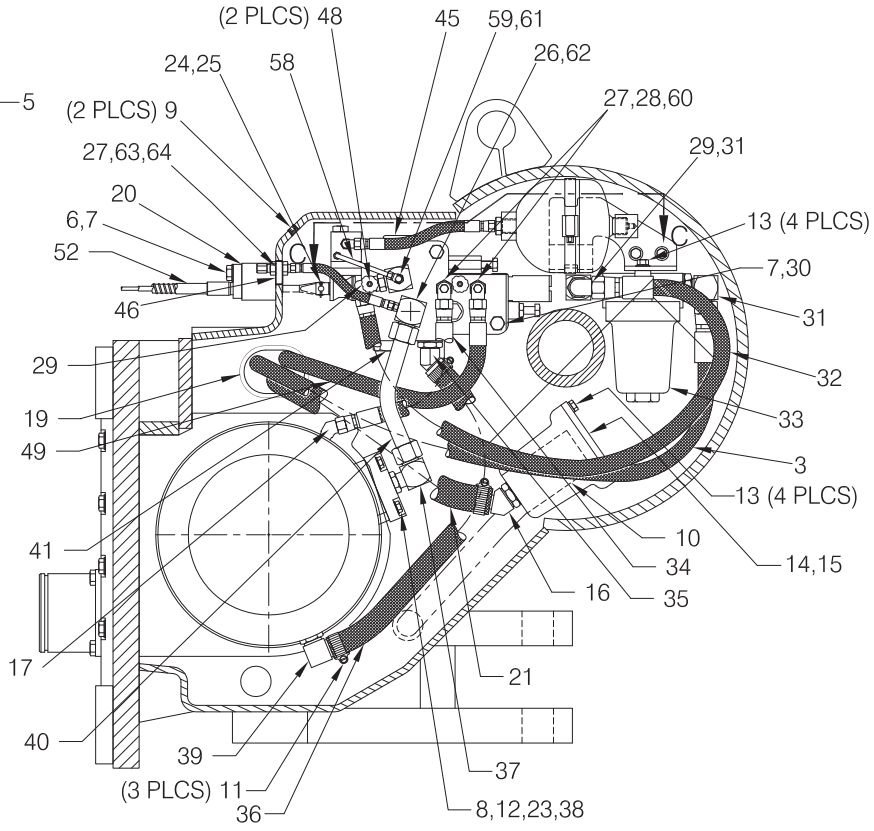
Fiat-Hitachi/New Holland FD14E, DX175/195, FD175/195 (A48); DC180 (A49)
Used on S/N AW6G-1119 through S/N AW6G-1938
Page 1 of 2



VIEW C-C



TOP VIEW



LEFT SIDE VIEW-PLUMBING

Recommended Service Kit		
Item	Kit No.	Section
15, 33 (3001363W)	2311167	5-1
8, 15, 20	2302729W	5-1

Hydraulic Group, Power Controls

Fiat-Hitachi/New Holland FD14E, DX175/195, FD175/195 (A48); DC180 (A49)
Used on S/N AW6G-1119 through S/N AW6G-1938
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
9		2305987W	Setscrew	2
10		219172W	Strainer	1
11		209639W	Clamp	3
12		15156W	Washer	5
13	*a	1300780W	Screw, Flanged	8
14		2300936W	Cover	1
15		2300935W	Gasket	1
16		2302985W	Fitting	1
17		16568W	Fitting	1
18		R16271	Accumulator	1
19		24257	Trim	AR
20		303946W	Gasket	1
21		2300760W	Assembly, Hose	1
22		129563W	Clamp	1
23		279392W	Block	1
24		139W	Pin, Rod End	1
25		15212W	Pin	1
26		225712W	Fitting	1
27		16923W	Fitting	3
28		17777W	Fitting	2
29		16989W	Fitting	2
30		198385W	Capscrew	3
31		16559W	Fitting	2
32		2301844W	Assembly, Hose	1
33		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1

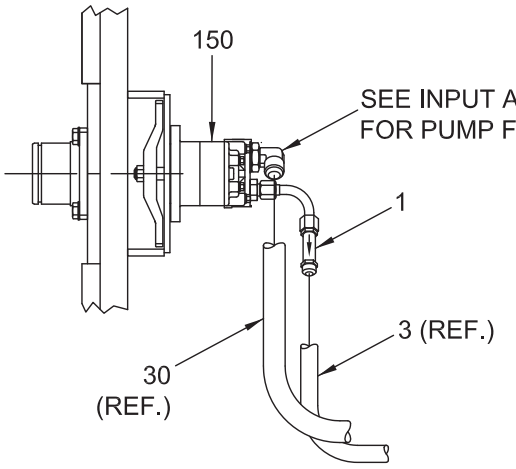
Item		Part No.	Description	Qty
34		133943W	Assembly, Hose	1
35		2300776W	Fitting	1
36		2300761W	Assembly, Hose	1
37		16948W	Fitting	1
38		16828W	Capscrew	2
39		2300774W	Fitting	1
40		2300762W	Assembly, Tube	1
41		226450W	Assembly, Valve	1
42		383892W	Assembly, Hose	1
43		222381W	Fitting	1
44		16987W	Fitting	1
45		2300301W	Valve, Control (3-52)	1
46	*b	2304823W	Plug	1
47		15158W	Washer	3
48		2305986W	Setscrew	2
49		2300767W	Assembly, Hose	1
52		- - - - - - - -	Cable (See Handling Gear pages)	Ref
58		277663W	Assembly, Tube	1
59		2301843W	Fitting	1
60		2300771W	Assembly, Fitting	2
61		14500W	Fitting	1
62		14668W	Fitting	1
63	*c	16445W	Fitting	1
64		140288W	Assembly, Hose	1
67		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
71		2301684W	Assembly, Tube	1
72		16909W	Fitting	1
73		16561W	Fitting	1

*a Use 273338W Pipe Thread Sealant
*b Use 318701W Adhesive
*c Use 236308W Loctite

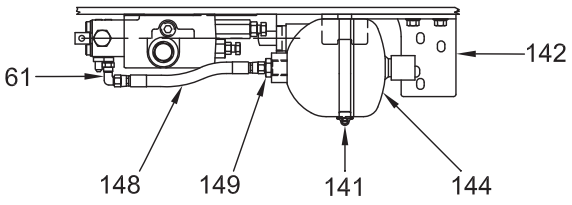
Hydraulic Group, Power Controls

Fiat-Hitachi/New Holland FD14E, DX175/195, FD175/195 (A48); DC180 (A49)
First Used on S/N AW6G-1939
Page 1 of 2

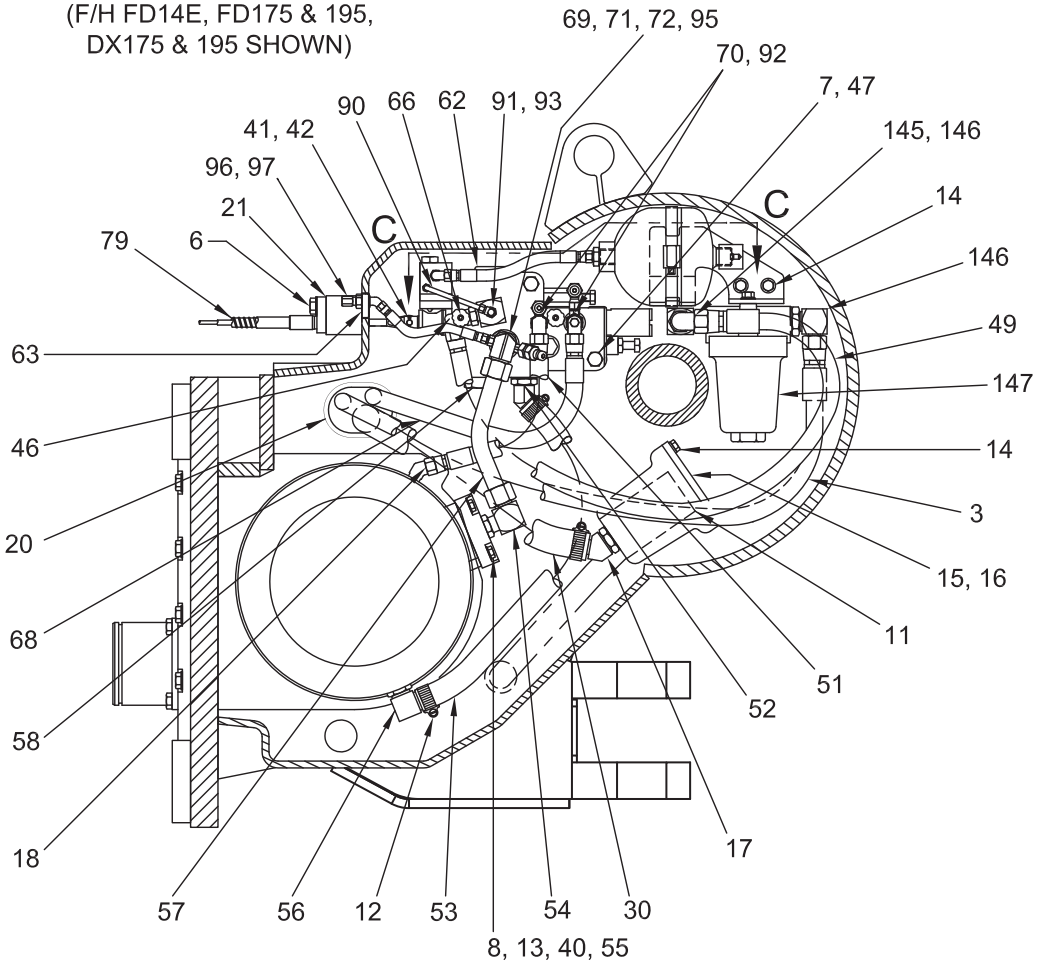
Recommended Service Kit		
Item	Kit No.	Section
16, 147 (3001363W)	2311167	5-1
8, 16, 21	2302729W	5-1



TOP VIEW
LOW INPUT
(F/H FD14E, FD175 & 195, DX175 & 195 SHOWN)



VIEW C-C



Hydraulic Group, Power Controls

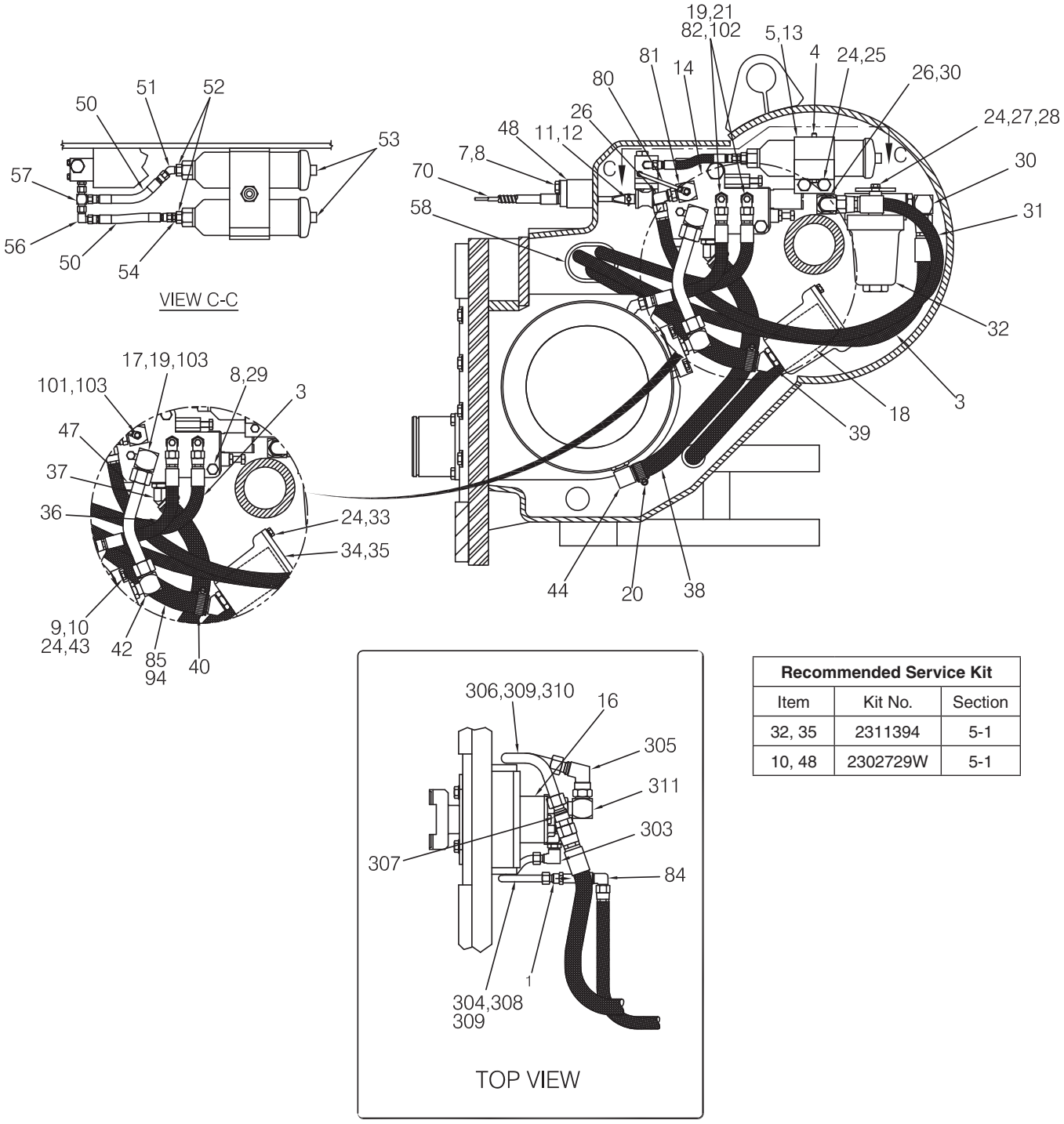
Fiat-Hitachi/New Holland FD14E, DX175/195, FD175/195 (A48); DC180 (A49)
First Used on S/N AW6G-1939

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
3		2300767W	Assembly, Hose	1
6		2303902W	Screw, Flanged	1
7		15158W	Washer	3
8		196022W	Gasket	1
11		219172W	Strainer	1
12		2312581	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	6
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
20		24257	Trim	AR
21		303946W	Gasket	1
30		2300760W	Assembly, Hose	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
46		16989W	Fitting	1
47		198385W	Capscrew	3
49		2301844W	Assembly, Hose	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
66		2305986W	Setscrew	2
68		2300767W	Assembly, Hose	1
69		R330325	Coupler	1
70		2314853	Coupler	2
71		209790	Fitting	1
72		2314190	Fitting	1
79		303944W	Cable, Push Pull	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Assembly, Fitting	2
93		14500W	Fitting	1
95		14668W	Fitting	1
96	*c	16463W	Fitting	1
97		140288W	Assembly, Hose	1
141		2302109W	Clamp	1
142		2305144W	Bracket, Mounting	1
143		1300780W	Screw, Flanged	2
144		R16271	Accumulator	1
145		16989W	Fitting	1
146		16559W	Fitting	2
147		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
148		383892W	Assembly, Hose	1
149		222381W	Fitting	1
150		2302963W	Assembly, Gear Pump (3-182)	1

*a Use 246108W Pipe Thread Sealant
*b Use 257291W Adhesive
*c Use 236308W Loctite

Hydraulic Group, Power Controls

John Deere 750/850, 750B/C, 850B/C (E41, E42, E43, E44, E45, E46)
Last Used on S/N AW6G-1027
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
32, 35	2311394	5-1
10, 48	2302729W	5-1

Hydraulic Group, Power Controls

John Deere 750/850, 750B/C, 850B/C (E41, E42, E43, E44, E45, E46)
Last Used on S/N AW6G-1027
Page 2 of 2

Item	Part No.	Description	Qty
1	2300758W	Valve, Check	1
2	17315W	Fitting	1
3	2300767W	Assembly, Hose	2
4	18542W	Capscrew	1
5	267487W	Bracket	1
7	16829W	Capscrew	1
8	15158W	Washer	4
9	279392W	Block	1
10	196022W	Gasket	1
11	139W	Pin	1
12	15212W	Pin	1
13	267488W	Plate	1
14	2300301W	Valve, Control (3-52)	1
16	- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
17	225712W	Fitting	1
18	219172W	Strainer	1
19	16923W	Fitting	3
20	127045W	Clamp	2
21	17777W	Fitting	2
23	344839W	Spacer	1
24	15156W	Washer	11
25	194090W	Capscrew	2
26	16989W	Fitting	2
27	16598W	Capscrew	2
28	15176W	Washer	2
29	198385W	Capscrew	3
30	16559W	Fitting	2
31	2301844W	Assembly, Hose	1
32	2301875W	Assembly, Filter	1
	3001363W	. Element/O-Ring	1
	55468W	. . O-Ring	1
33	16805W	Capscrew	4
34	2300936W	Cover	1
35	2300935W	Gasket	1
36	133943W	Assembly, Hose	1
37	2300776W	Fitting	1
38	2300761W	Assembly, Hose	1
39	276090W	Fitting	1
40	130845W	Clamp	1
42	16948W	Fitting	1
43	16828W	Capscrew	2
44	2300774W	Fitting	1
45	2300762W	Assembly, Tube	1

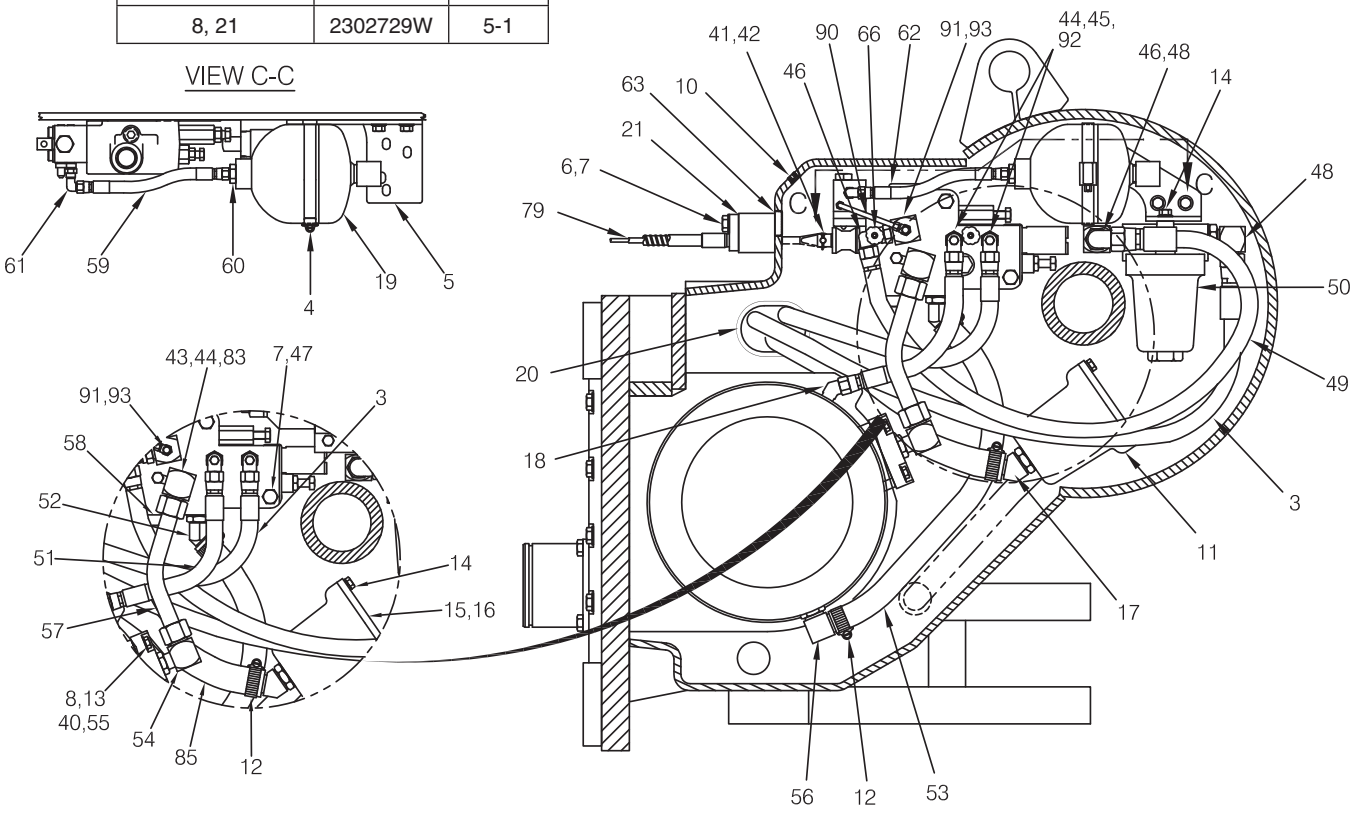
Item		Part No.	Description	Qty
46		16568W	Fitting	1
47		226450W	Assembly, Valve	1
48		303946W	Gasket	1
50		217754W	Assembly, Hose	2
51		14539W	Fitting	1
52		327611W	Fitting	2
53	*a	327610W	Accumulator	2
54		14669W	Fitting	1
56		16987W	Fitting	1
57		17059W	Fitting	1
58		24257	Trim	AR
70		- - - - - - - -	Cable (See Handling Gear pages)	Ref
80	*c	2301512W	Tube Assembly	1
81	*c	138811W	Fitting	1
	*b	2301843W	Fitting	1
82	*b	2300771W	Fitting	2
83	*c	14581W	Fitting	1
84	*b,*c	16989W	Fitting	1
85	*c	2300760W	Assembly, Hose	1
94	*b	2300760W	Assembly, Hose	1
101	*b	2301843W	Fitting	1
102	*b	2300771W	Fitting	2
103	*b	14500W	Fitting	2
300		16909W	Fitting	1
301		2300759W	Assembly, Tube	1
302		16561W	Fitting	1
303		17224W	Fitting	1
304		2300778W	Assembly, Tube	1
305		83857W	Fitting	1
306		2300777W	Assembly, Tube	1
307		14694W	Fitting	1
308		173246W	Clamp	1
309		16597W	Capscrew	2
310		181089W	Clamp	1
311		16561W	Fitting	1

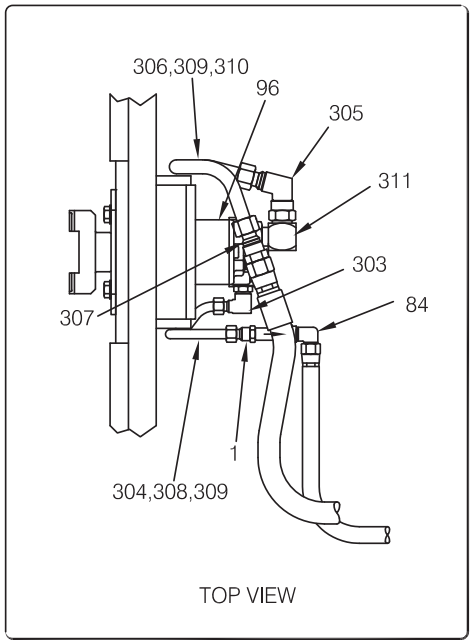
*a Uses 2300181W Charge Valve; Refer to Service Bulletin A0-Z-28 R4 in Section 7.
*b John Deere 750, 750B (E41, E44), 850, 850B (E42, E43)
*c John Deere 750C (E45), 850C (E46)

Hydraulic Group, Power Controls

John Deere 750B w/o Cab (E41), 850B w/ Cab (E42), 850B w/o Cab (E43), 750B w/ Cab (E44),
750C Series I & II (E45), 850C Series I & II (E46)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
16, 50 (3001363W	2311167	5-1
8, 21	2302729W	5-1





Hydraulic Group, Power Controls

John Deere 750B w/o Cab (E41), 850B w/ Cab (E42), 850B w/o Cab (E43), 750B w/ Cab (E44),
750C Series I & II (E45), 850C Series I & II (E46)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 2 of 2

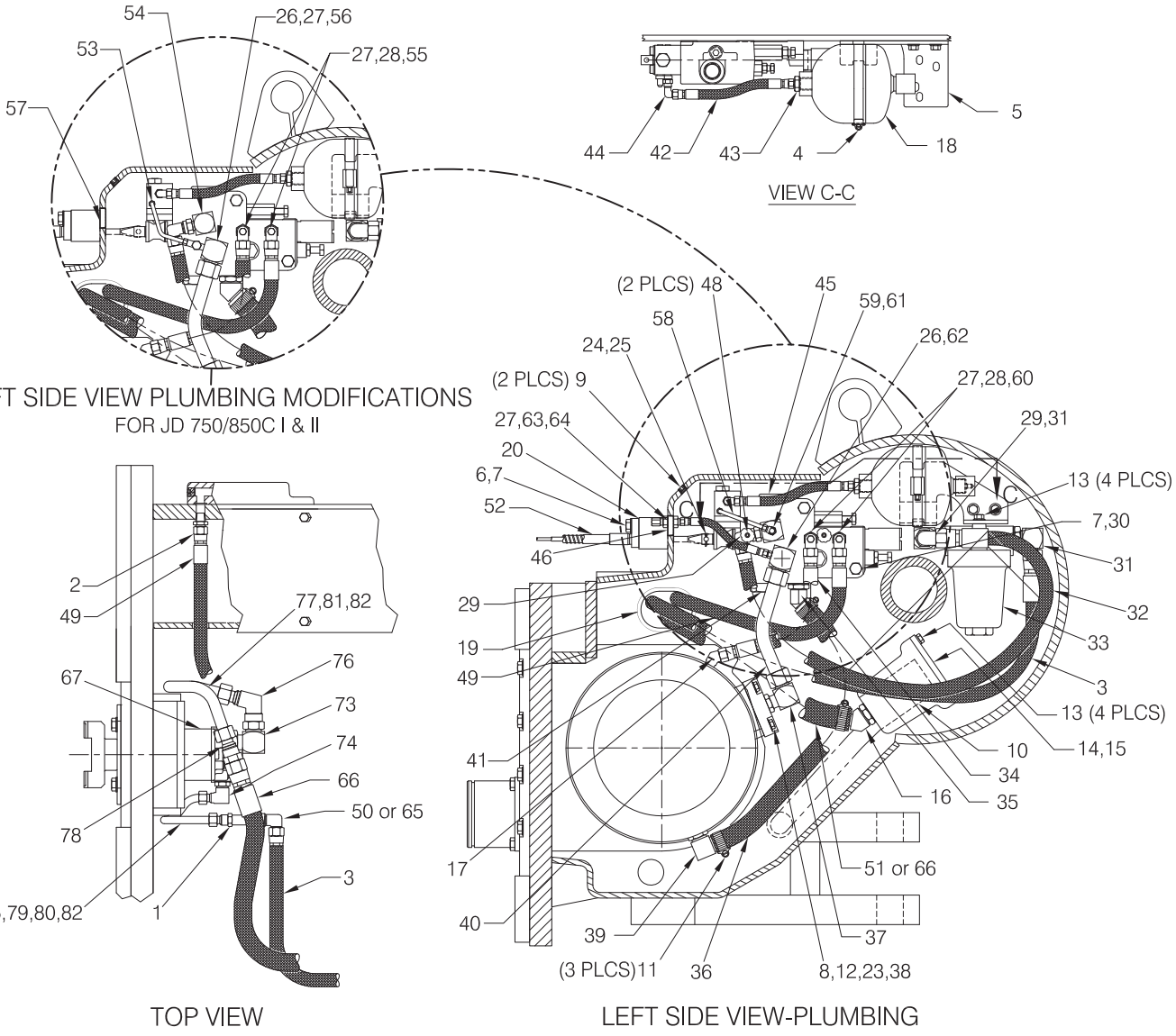
Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	2
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
10		2305987W	Setscrew	2
11		219172W	Strainer	1
12		209639W	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	8
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
19		R16271	Accumulator	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
43		225712W	Fitting, Special	1
44		16923W	Fitting	3
45		17777W	Fitting	2
46		16989W	Fitting	2
47		198385W	Capscrew	3
48		16559W	Fitting	2
49		2301844W	Assembly, Hose	1
50		2301875W	Assembly, Filter	1
50		3001363W	. Element/O-Ring	1
50		55468W	. . O-Ring	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
59		383892W	Assembly, Hose	1

Item		Part No.	Description	Qty
60		222381W	Fitting	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
65		15158W	Washer	3
66		2305986W	Setscrew	2
79		- - - - - - - -	Cable (See Handling Gear pages)	Ref
83	*d	14581W	Fitting	1
	*c	14500W	Fitting	1
84	*d	16989W	Fitting	1
85		230760W	Assembly, Hose	1
90	*c	277663W	Assembly, Tube	1
	*d	2301512W	Assembly, Tube	1
91	*c	2301843W	Fitting	1
	*d	138811W	Fitting	1
92	*c	2300771W	Fitting	1
	*d	2301510W	Fitting	1
93	*c	14500W	Fitting	1
	*d	14581W	Fitting	1
96		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
300		16909W	Fitting	1
301		2300759W	Assembly, Tube	1
302		16561W	Fitting	1
303		17224W	Fitting	1
304		2300778W	Assembly, Tube	1
305		83857W	Fitting	1
306		2300777W	Assembly, Tube	1
307		14694W	Fitting	1
308		173246W	Clamp	1
309		16597W	Capscrew	2
310		181089W	Clamp	1
311		16561W	Fitting	1
312		17224W	Fitting	1
313		201761W	Fitting	1
314		2301500W	Assembly, Tube	1

*a Use 273338W Pipe Thread Sealant
*b Use 318701W Thread Lock
*c John Deere 750, 750B (E41, E44), 850, 850B (E42, E43)
*d John Deere 750C Series I & II (E45), 850C Series I & II (E46)

Hydraulic Group, Power Controls

John Deere 750B w/o Cab (E41), 850B w/ Cab (E42), 850B w/o Cab (E43), 750B w/ Cab (E44),
750C Series I & II (E45), 850C Series I & II (E46)
Used on S/N AW6G-1119 through S/N AW6G-1938
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
15, 33 (3001363W)	2311167	5-1
8, 15, 20	2302729W	5-1

Hydraulic Group, Power Controls

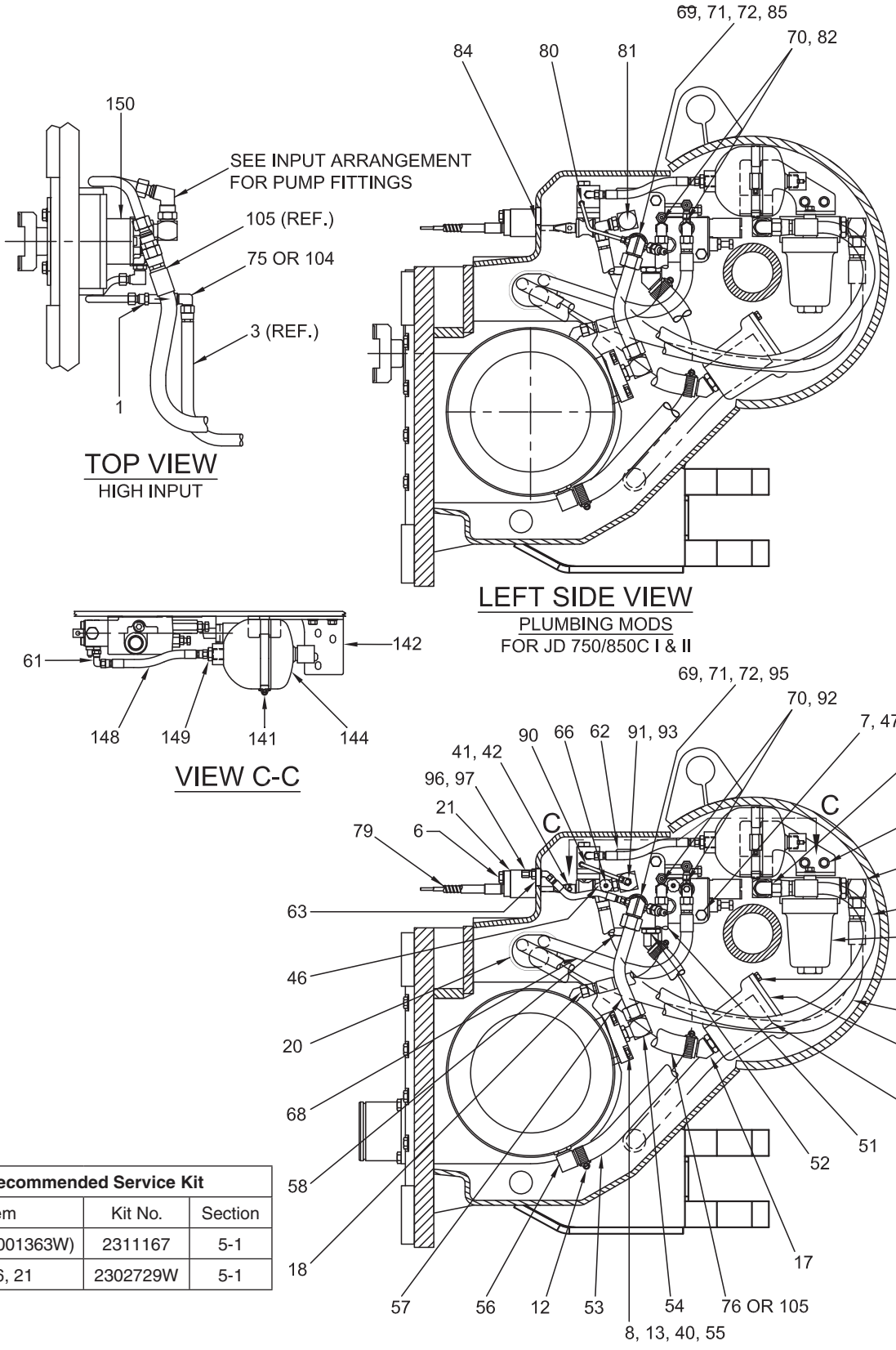
John Deere 750B w/o Cab (E41), 850B w/ Cab (E42), 850B w/o Cab (E43), 750B w/ Cab (E44),
750C Series I & II (E45), 850C Series I & II (E46)
Used on S/N AW6G-1119 through S/N AW6G-1938
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
9		2305987W	Setscrew	2
10		219172W	Strainer	1
11		209639W	Clamp	3
12		15156W	Washer	5
13	*a	1300780W	Screw, Flanged	8
14		2300936W	Cover	1
15		2300935W	Gasket	1
16		2302985W	Fitting	1
17		16568W	Fitting	1
18		R16271	Accumulator	1
19		24257	Trim	AR
20		303946W	Gasket	1
23		279392W	Block	1
24		139W	Pin, Rod End	1
25		15212W	Pin	1
26		225712W	Fitting	1
27		16923W	Fitting	3
28		17777W	Fitting	2
29		16989W	Fitting	2
30		198385W	Capscrew	3
31		16559W	Fitting	2
32		2301844W	Assembly, Hose	1
33		2301875W	Assembly, Filter	1
33		3001363W	. Element/O-Ring	1
33		55468W	. . O-Ring	1
34		133943W	Assembly, Hose	1
35		2300776W	Fitting	1
36		2300761W	Assembly, Hose	1
37		16948W	Fitting	1
38		16828W	Capscrew	2
39		2300774W	Fitting	1
40		2300762W	Assembly, Tube	1
41		226450W	Assembly, Valve	1
42		383892W	Assembly, Hose	1
43		222381W	Fitting	1
44		16987W	Fitting	1
45		2300301W	Valve, Control (3-52)	1
46	*b	2304823W	Plug	1
47		15158W	Washer	3
48		2305986W	Setscrew	2
49		2300767W	Assembly, Hose	1
50	*f	16989W	Fitting	1
51	*f	2300760W	Assembly, Hose	1
52		- - - - - - - -	Cable (See Handling Gear pages)	Ref
53	*e	2301512W	Assembly, Tube	1
54	*e	138811W	Fitting	1
55	*e	2301510W	Assembly, Fitting	2
56	*e	14581W	Fitting	1
57	*e	2305987W	Setscrew	1
58	*g	277663W	Assembly, Tube	1
59	*g	2301843W	Fitting	1
60	*g	2300771W	Assembly, Fitting	2
61	*g	14500W	Fitting	1
62	*g	14668W	Fitting	1
63	*g, *c	16445W	Fitting	1
64	*g	140288W	Assembly, Hose	1
65	*d	16989W	Fitting	1
66	*d	2300760W	Assembly, Hose	1
67		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
73		16561W	Fitting	1
74		17224W	Fitting	1
75		2300778W	Assembly, Tube	1
76		83857W	Fitting	1
77		2300777W	Assembly, Tube	1
78		14694W	Fitting	1
79		136516W	Clamp	1
80		16597W	Capscrew	2
81		181089W	Clamp	1
82		15156W	Washer	2

*a	Use 273338W Pipe Thread Sealant
*b	Use 318701W Adhesive
*c	Use 236308W Loctite
*d	John Deere 750 (E41, E44), 850B (E42, E43)
*e	John Deere 750 (E41, E44), 850C Series I & II (E46)
*f	John Deere 750C Series II (E45), 850C Series II (E46)
*g	All Except John Deere 750C Series II (E45), 850C Series II (E46)

Hydraulic Group, Power Controls

John Deere 750B w/o Cab (E41), 850B w/ Cab (E42), 850B w/o Cab (E43), 750B w/ Cab (E44),
750C Series I & II (E45), 850C Series I & II (E46)
First Used on S/N AW6G-1939
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
16, 147 (3001363W)	2311167	5-1
8, 16, 21	2302729W	5-1

Hydraulic Group, Power Controls

John Deere 750B w/o Cab (E41), 850B w/ Cab (E42), 850B w/o Cab (E43), 750B w/ Cab (E44), 750C Series I & II (E45), 850C Series I & II (E46)
First Used on S/N AW6G-1939
Page 2 of 2

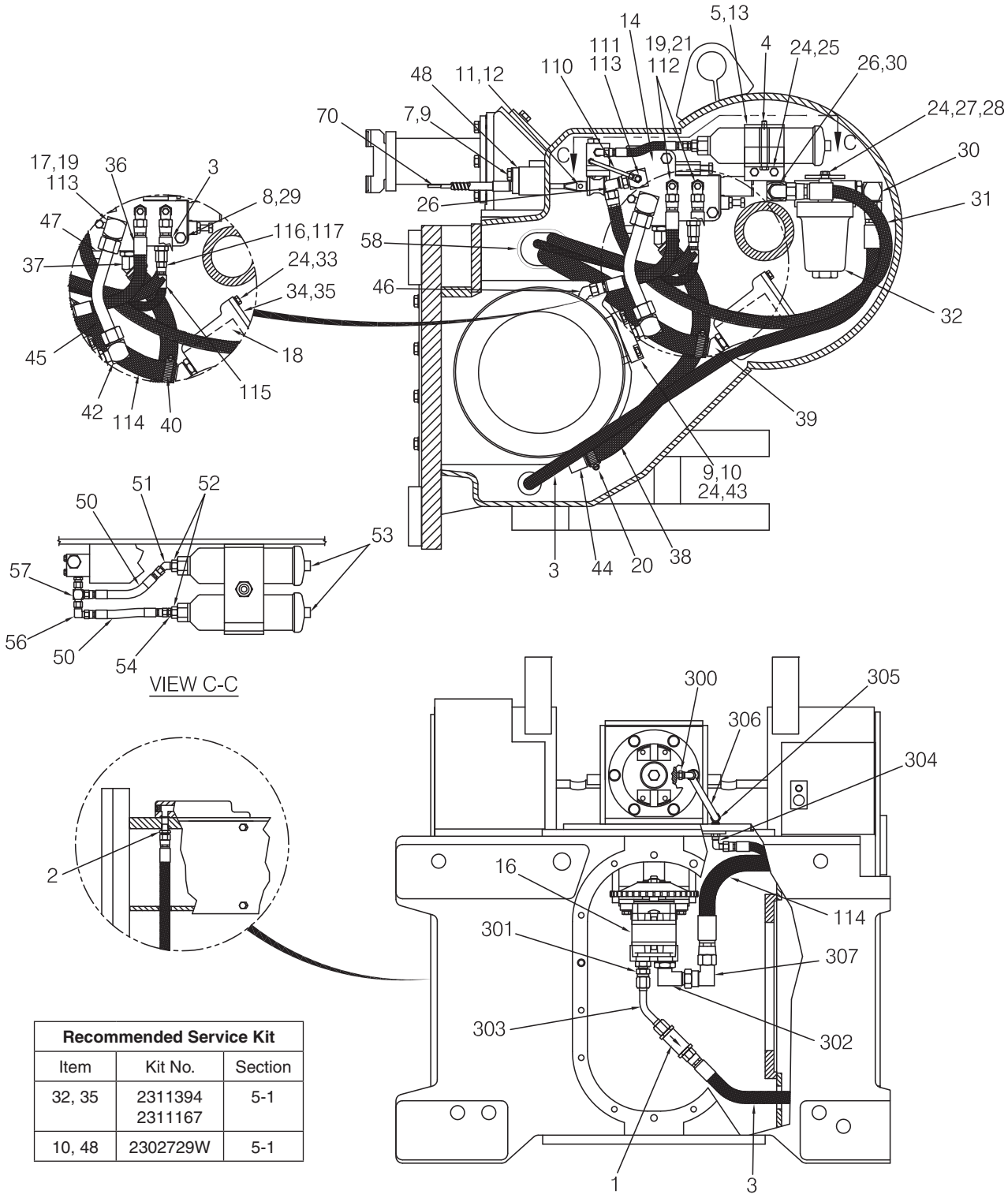
Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
3		2300767W	Assembly, Hose	1
6		2303902W	Screw, Flanged	1
7		15158W	Washer	3
8		196022W	Gasket	1
11		219172W	Strainer	1
12		2312581	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	6
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
46		16989W	Fitting	1
47		198385W	Capscrew	3
49		2301844W	Assembly, Hose	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
66		2305986W	Setscrew	2
68		2300767W	Assembly, Hose	1
69		R330325	Coupler	1
70		2314853	Coupler	2
71		209790	Fitting	1
72		2314190	Fitting	1
75	*d	16989W	Fitting	1
76	*d	2300760	Assembly, Hose	1
79	See Chart Below		Cable, Push Pull	1
80	*f	2301512W	Assembly, Tube	1
81	*f	138811W	Fitting	1
82	*f	2301510W	Assembly, T-Fitting	2
84	*f	2305987W	Setscrew	1
85	*f	14668W	Fitting	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Assembly, Fitting	2
93		14500W	Fitting	1
95		14668W	Fitting	1
96	*c	16463W	Fitting	1
97		140288W	Assembly, Hose	1
104	*e	16989W	Fitting	1
105	*e	2300760W	Assembly, Hose	1
141		2302109W	Clamp	1
142		2305144W	Bracket, Mounting	1
143		1300780W	Screw, Flanged	2
144		R16271	Accumulator	1
145		16989W	Fitting	1
146		16559W	Fitting	2
147		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
148		383892W	Assembly, Hose	1
149		222381W	Fitting	1
150		2302963W	Assembly, Gear Pump (3-182)	1

Item 79 (Qty. 1) Push Pull Cables		
Part No.	Length (Inch)	Tractor
303941W	74	JD 750B w/o Cab (E41), JD 850B w/o Cab (E43)
303944W	96	JD 750B w/ Cab (E44), JD 850B w/ Cab (E42)

*a Use 246108W Pipe Thread Sealant
*b Use 257291W Adhesive
*c Use 236308W Loctite
*d Used on John Deere 750C Series I & II (E45)
*e Used on John Deere 750B/850B (E41, E42, E43, E44)
*f Used on John Deere 750C Series I & II (E45), 850C Series I & II (E46)

Hydraulic Group, Power Controls

Komatsu D65EX-12, D65EX-15 (K46)
Last Used on S/N AW6G-1027
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
32, 35	2311394 2311167	5-1
10, 48	2302729W	5-1

Hydraulic Group, Power Controls

Komatsu D65EX-12, D65EX-15 (K46)
Last Used on S/N AW6G-1027

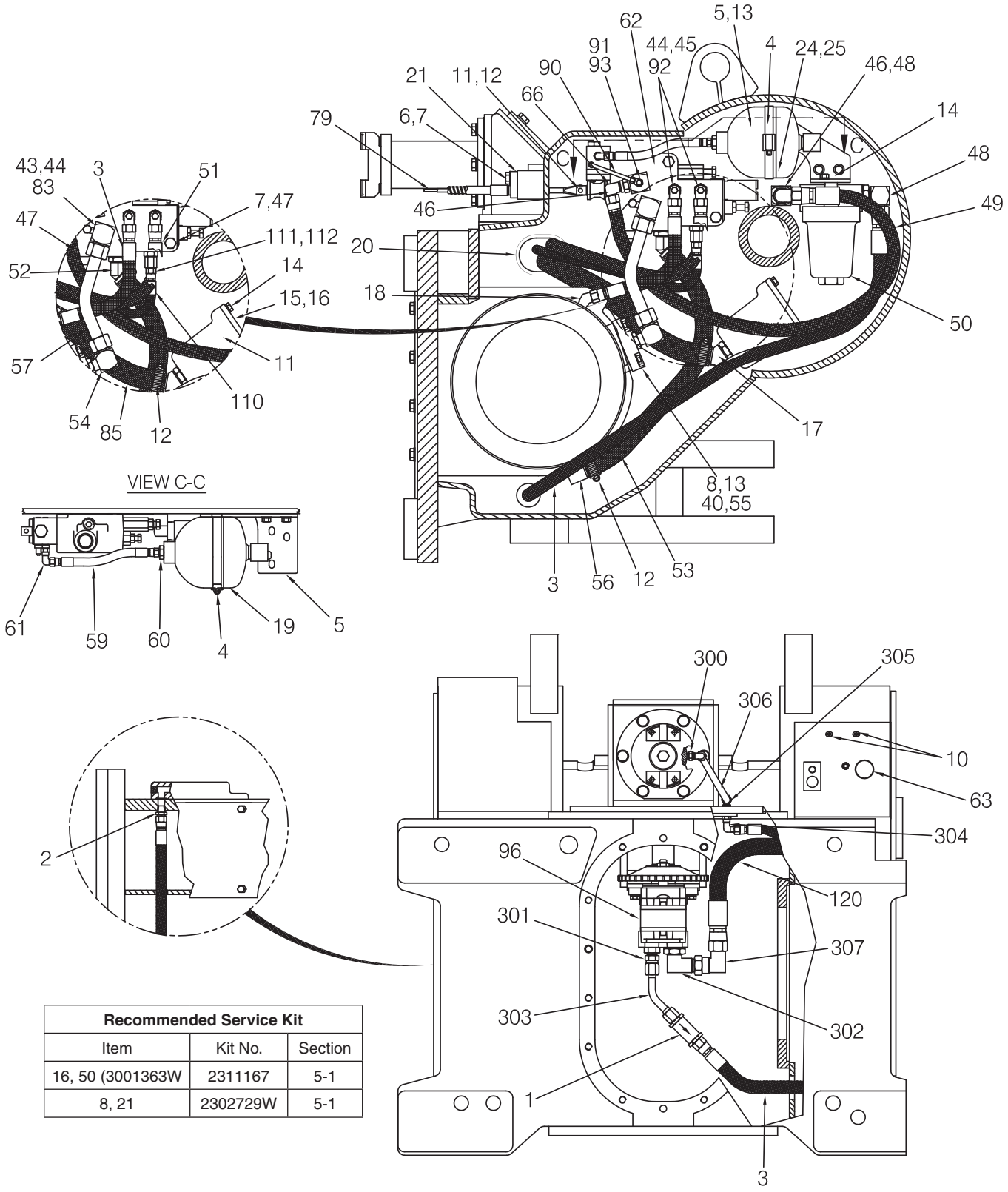
Item	Part No.	Description	Qty
1	2300758W	Valve, Check	1
2	17315W	Fitting	1
3	2300767W	Assembly, Hose	2
4	18542W	Capscrew	1
5	267487W	Bracket	1
7	16829W	Capscrew	1
8	15158W	Washer	4
9	279392W	Block	1
10	196022W	Gasket	1
11	139W	Pin	1
12	15212W	Pin	1
14	2300301W	Valve, Control (3-52)	1
16	- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
17	225712W	Fitting	1
18	219172W	Strainer	1
19	16923W	Fitting	3
20	127045W	Clamp	2
21	17777W	Fitting	2
23	344839W	Spacer	1
24	15156W	Washer	11
25	194090W	Capscrew	2
26	16989W	Fitting	2
27	16598W	Capscrew	2
28	15176W	Washer	2
29	198385W	Capscrew	3
30	16559W	Fitting	2
31	2301844W	Assembly, Hose	1
32	2301875W	Assembly, Filter	1
32	3001363W	. Element/O-Ring	1
32	55468W	. . O-Ring	1
33	16805W	Capscrew	4
34	2300936W	Cover	1
35	2300935W	Gasket	1
36	133943W	Assembly, Hose	1
37	2300776W	Fitting	1
38	2300761W	Assembly, Hose	1
39	2302985W	Fitting	1

Item		Part No.	Description	Qty
40		130845W	Clamp	1
42		16948W	Fitting	1
43		16828W	Capscrew	2
44		2300774W	Fitting	1
45		2300762W	Assembly, Tube	1
46		16568W	Fitting	1
47		226450W	Assembly, Valve	1
48		303946W	Gasket	1
50		217754W	Assembly, Hose	2
51		14539W	Fitting	1
52		327611W	Fitting	2
53	*a	327610W	Accumulator	2
54		14669W	Fitting	1
56		16987W	Fitting	1
57		17059W	Fitting	1
58		2301055W	Trim	AR
70		- - - - - - - -	Cable (See Handling Gear pages)	Ref
110		277663W	Assembly, Tube	1
111		2301843W	Fitting	1
112		2300771W	Fitting	2
113		14500W	Fitting	2
114		2301646W	Assembly, Hose	1
115		109002W	Assembly, Hose	1
116		17689W	Fitting	1
117		14713W	Fitting	1
300		14500W	Fitting	1
301		16909W	Fitting	1
302		16561W	Fitting	1
303		2302240W	Assembly, Hose	1
304		16987W	Fitting	1
305		16455W	Fitting	1
306		140288W	Assembly, Hose	1
307		83857W	Fitting	1

*a Use 2300181W Charge Valve; Refer to Service Bulletin A0-Z-28 R4 in Section 7.

Hydraulic Group, Power Controls

Komatsu D61EX-12/15, D65EX-12/15 (K47, K46)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
16, 50 (3001363W	2311167	5-1
8, 21	2302729W	5-1

Hydraulic Group, Power Controls

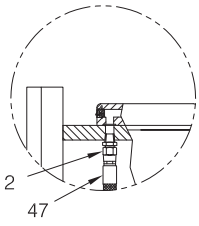
Komatsu D61EX-12/15, D65EX-12/15 (K47, K46)
Used on S/N AW6G-1028 through S/N AW6G-1118
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	2
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
10		2305987W	Setscrew	2
11		219172W	Strainer	1
12		209639W	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	8
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
19		R16271	Accumulator	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
43		225712W	Fitting, Special	1
44		16923W	Fitting	3
45		17777W	Fitting	2
46		16989W	Fitting	2
47		198385W	Capscrew	3
48		16559W	Fitting	2
49		2301844W	Assembly, Hose	1
50		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
59		383892W	Assembly, Hose	1
60		222381W	Fitting	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (See 3-52)	1
63	*b	2304823W	Plug	1
65		15158W	Washer	3
66		2305986W	Setscrew	2
79		- - - - - - - -	Cable (See Handling Gear pages)	Ref
83		14500W	Fitting	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Fitting	1
93		14500W	Fitting	1
95		129563W	Clamp, Strap	1
96		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
110		109002W	Assembly, Hose	1
111		17689W	Fitting	1
112		14713W	Fitting	1
120	*c	2301646W	Assembly, Hose	1
300		14500W	Fitting	1
301		16909W	Fitting	1
302		16561W	Fitting	1
303		2302240W	Assembly, Hose	1
304		16987W	Fitting	1
305		16455W	Fitting	1
306		140288W	Assembly, Hose	1
307		83857W	Fitting	1

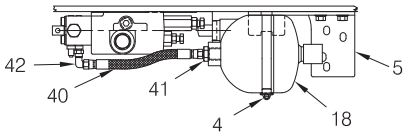
*a Use 273338W Pipe Thread Sealant
*b Use 318701W Adhesive
*c Komatsu D65EX-12, D65EX-15 (K46) Only

Hydraulic Group, Power Controls

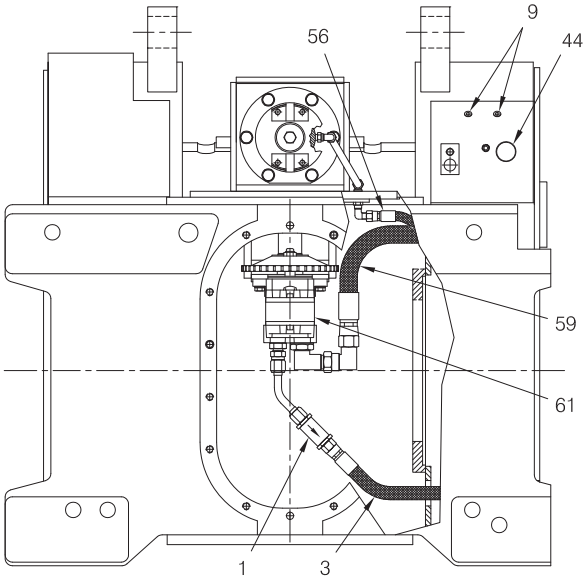
Komatsu D61EX-12/15 (K47), D65EX-12/15 (K46)
Used on S/N AW6G-1119 through AW6G-1938
Page 1 of 2



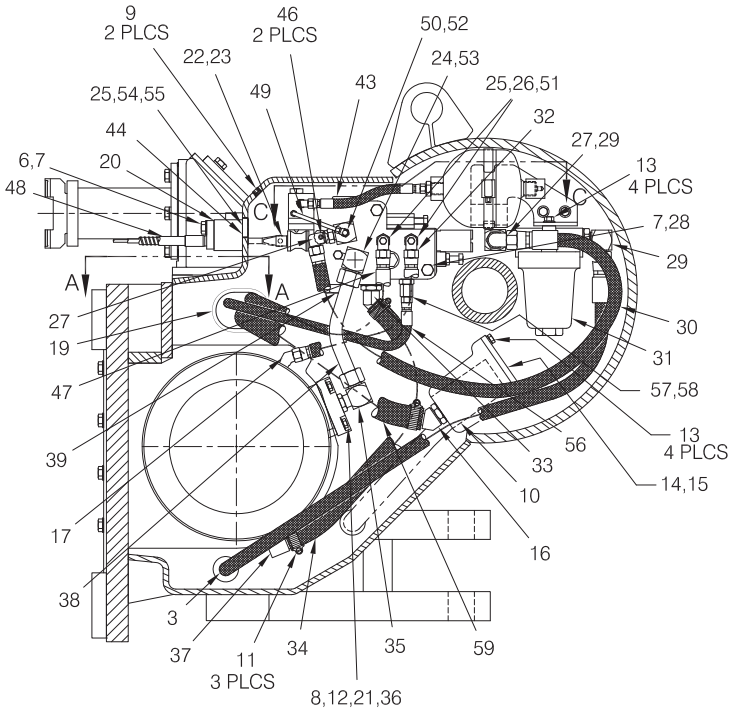
VIEW A-A



VIEW C-C



FRONT VIEW



LEFT SIDE VIEW

Recommended Service Kit		
Item	Kit No.	Section
15, 31 (3001363W)	2311167	5-1
8, 15, 20	2302729W	5-1

Hydraulic Group, Power Controls

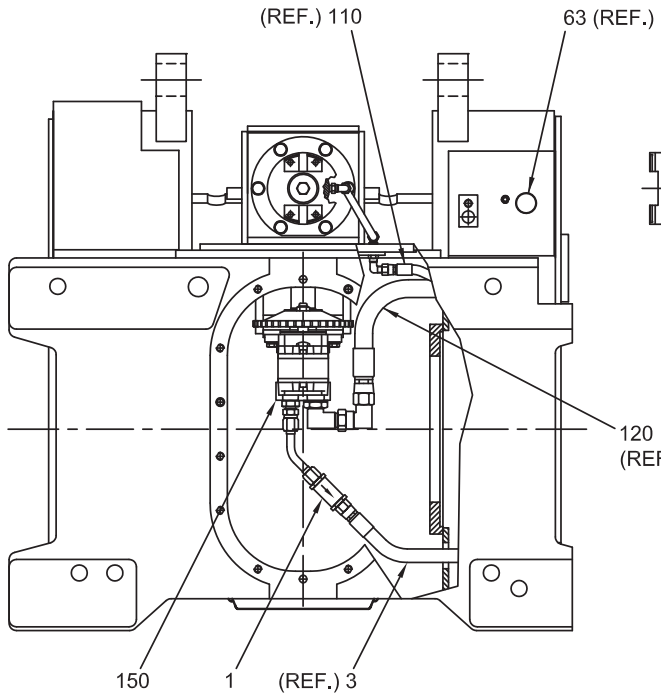
Komatsu D61EX-12/15 (K47), D65EX-12/15 (K46)
Used on S/N AW6G-1119 through AW6G-1938
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
9		2305987W	Setscrew	2
10		219172W	Strainer	1
11		209639W	Clamp	3
12		15156W	Washer	5
13	*a	1300780W	Screw, Flanged	8
14		2300936W	Cover	1
15		2300935W	Gasket	1
16		2302985W	Fitting	1
17		16568W	Fitting	1
18		R16271	Accumulator	1
19		24257	Trim	AR
20		303946W	Gasket	1
21		279392W	Block	1
22		139W	Pin, Rod End	1
23		15212W	Pin	1
24		225712W	Fitting	1
25		16923W	Fitting	3
26		17777W	Fitting	2
27		16989W	Fitting	2
28		198385W	Capscrew	3
29		16559W	Fitting	2
30		2301844W	Assembly, Hose	1
31		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
32		133943W	Assembly, Hose	1
33		2300776W	Fitting	1
34		2300761W	Assembly, Hose	1
35		16948W	Fitting	1
36		16828W	Capscrew	2
37		2300774W	Fitting	1
38		2300762W	Assembly, Tube	1
39		226450W	Assembly Valve	1
40		383892W	Assembly, Hose	1
41		222381W	Fitting	1
42		16987W	Fitting	1
43		2300301W	Valve, Control (3-52)	1
44	*b	2304823W	Plug	1
45		15158W	Washer	3
46		2305986W	Setscrew	2
47		2300767W	Assembly, Hose	1
48		- - - - - - - -	Cable (See Handling Gear pages)	Ref
49		277663W	Assembly, Tube	1
50		2301843W	Fitting	1
51		2300771W	Assembly, Fitting	2
52		14500W	Fitting	1
53		14668W	Fitting	1
54	*c, *e	16445W	Fitting	1
	*c, *f	16463W	Fitting	1
55		140288W	Assembly, Hose	1
56		109002W	Assembly, Hose	1
57		17689W	Fitting	1
58		14713W	Fitting	1
59	*d	2301646W	Assembly, Hose	1
61		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1

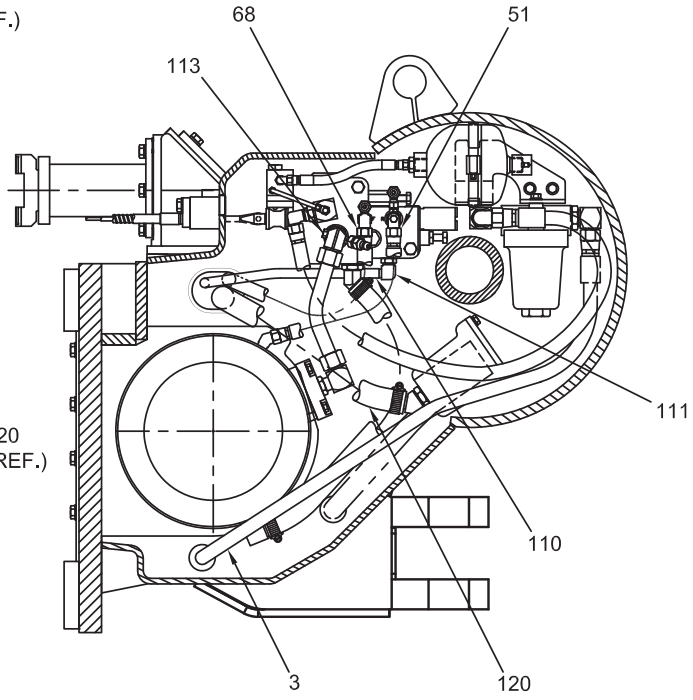
*a Use 273338W Pipe Thread Sealant
*b Use 318701W Adhesive
*c Use 236308W Loctite
*d Komatsu D61EX-12/15 (K47), D65EX-12/15 (K46)
*e Last Used on S/N AW6G-1402
*f First Used on S/N AW6G-1403 (Komatsu D65EX-12/15 (K46))

Hydraulic Group, Power Controls

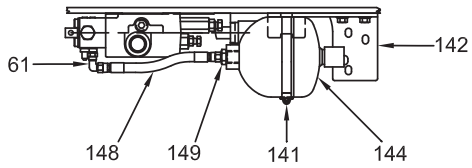
Komatsu D61EX-12/15 (K47), D65EX-12/15 (K46)
First Used on S/N AW6G-1939
Page 1 of 2



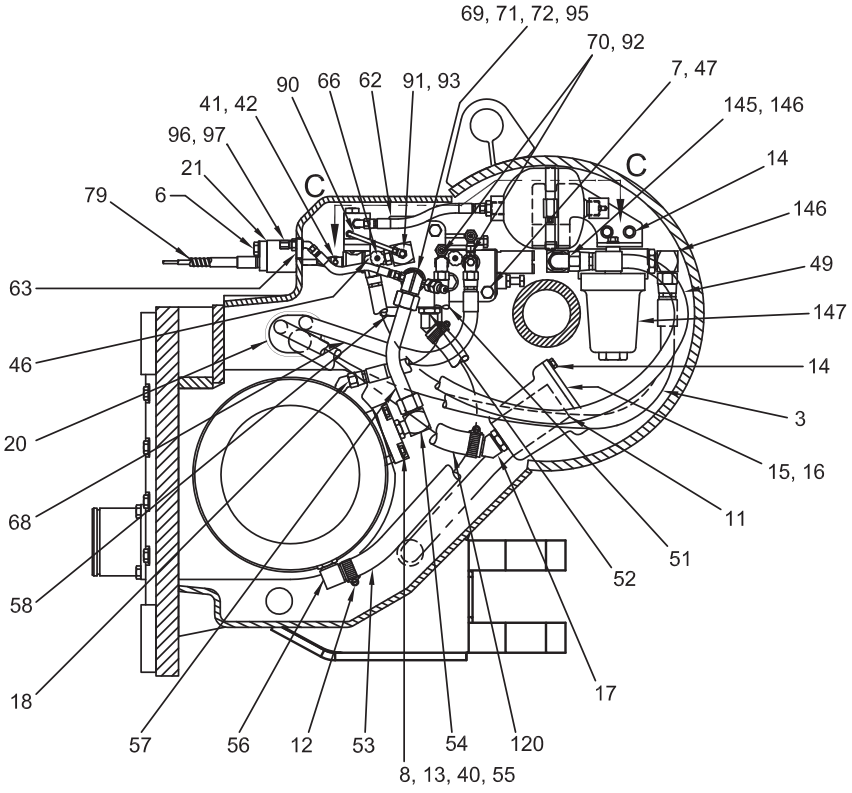
FRONT VIEW
PUMP HOSES



LEFT SIDE VIEW
LUBE FOR DROP BOX



VIEW C-C



Recommended Service Kit		
Item	Kit No.	Section
16, 147 (3001363W)	2311167	5-1
8, 16, 21	2302729W	5-1

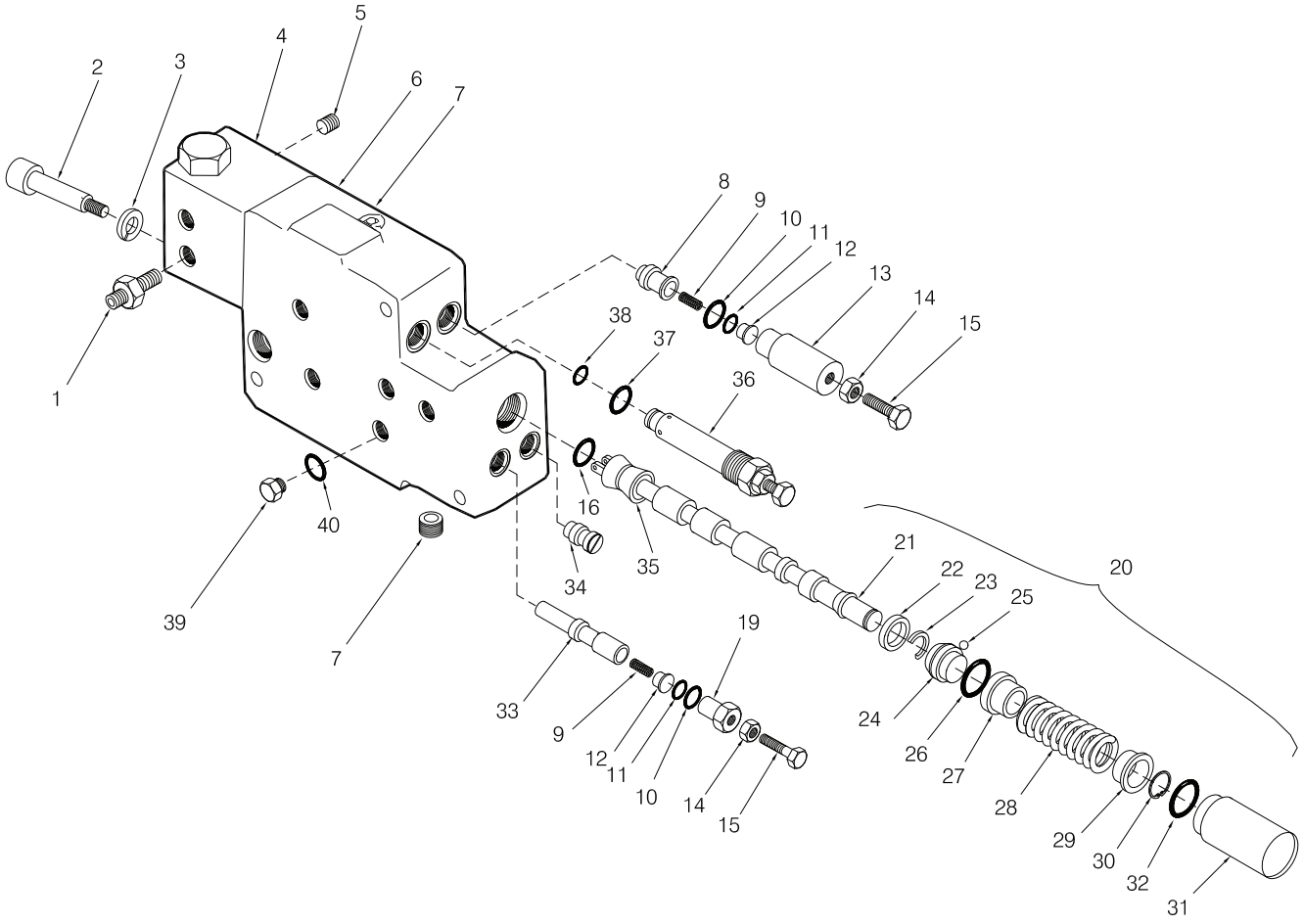
Hydraulic Group, Power Controls

Komatsu D61EX-12/15 (K47), D65EX-12/15 (K46)
First Used on S/N AW6G-1939
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
3		2300767W	Assembly, Hose	1
6		2303902W	Screw, Flanged	1
7		15158W	Washer	3
8		196022W	Gasket	1
11		219172W	Strainer	1
12		2312581	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	6
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
20		24257	Trim	AR
21		303946W	Gasket	1
40		279392W	Block	1
41		139W	Pin, Rod End	1
42		15212W	Pin	1
46		16989W	Fitting	1
47		198385W	Capscrew	3
49		2301844W	Assembly, Hose	1
51		133943W	Assembly, Hose	1
52		2300776W	Fitting	1
53		2300761W	Assembly, Hose	1
54		16948W	Fitting	1
55		16828W	Capscrew	2
56		2300774W	Fitting	1
57		2300762W	Assembly, Tube	1
58		226450W	Assembly, Valve	1
61		16987W	Fitting	1
62		2300301W	Valve, Control (3-52)	1
63	*b	2304823W	Plug	1
66		2305986W	Setscrew	2
68		2300767W	Assembly, Hose	1
69		R330325	Coupler	1
70		2314853	Coupler	2
71		209790	Fitting	1
72		2314190	Fitting	1
79		2305382W	Cable, Push Pull	1
90		277663W	Assembly, Tube	1
91		2301843W	Fitting	1
92		2300771W	Assembly, Fitting	2
93		14500W	Fitting	1
95		14668W	Fitting	1
96	*c	16463W	Fitting	1
97		140288W	Assembly, Hose	1
110		109002W	Assembly, Hose	1
111	*d	17689W	Fitting	1
	*e	23396	Fitting	1
113	*b	209511	Fitting	1
120		2301646W	Assembly, Hose	1
141		2302109W	Clamp	1
142		2305144W	Bracket, Mounting	1
144		R16271	Accumulator	1
145		16989W	Fitting	1
146		16559W	Fitting	2
147		2301875W	Assembly, Filter	1
		3001363W	. Element/O-Ring	1
		55468W	. . O-Ring	1
148		383892W	Assembly, Hose	1
149		222381W	Fitting	1
150		2302963W	Assembly, Gear Pump (3-182)	1

*a	Use 246108W Pipe Thread Sealant
*b	Use 257291W Adhesive
*c	Use 236308W Loctite
*d	Last Used on S/N AW6G-1867
*e	First Used on S/N AW6G-1868

Control Valve, Power Controls

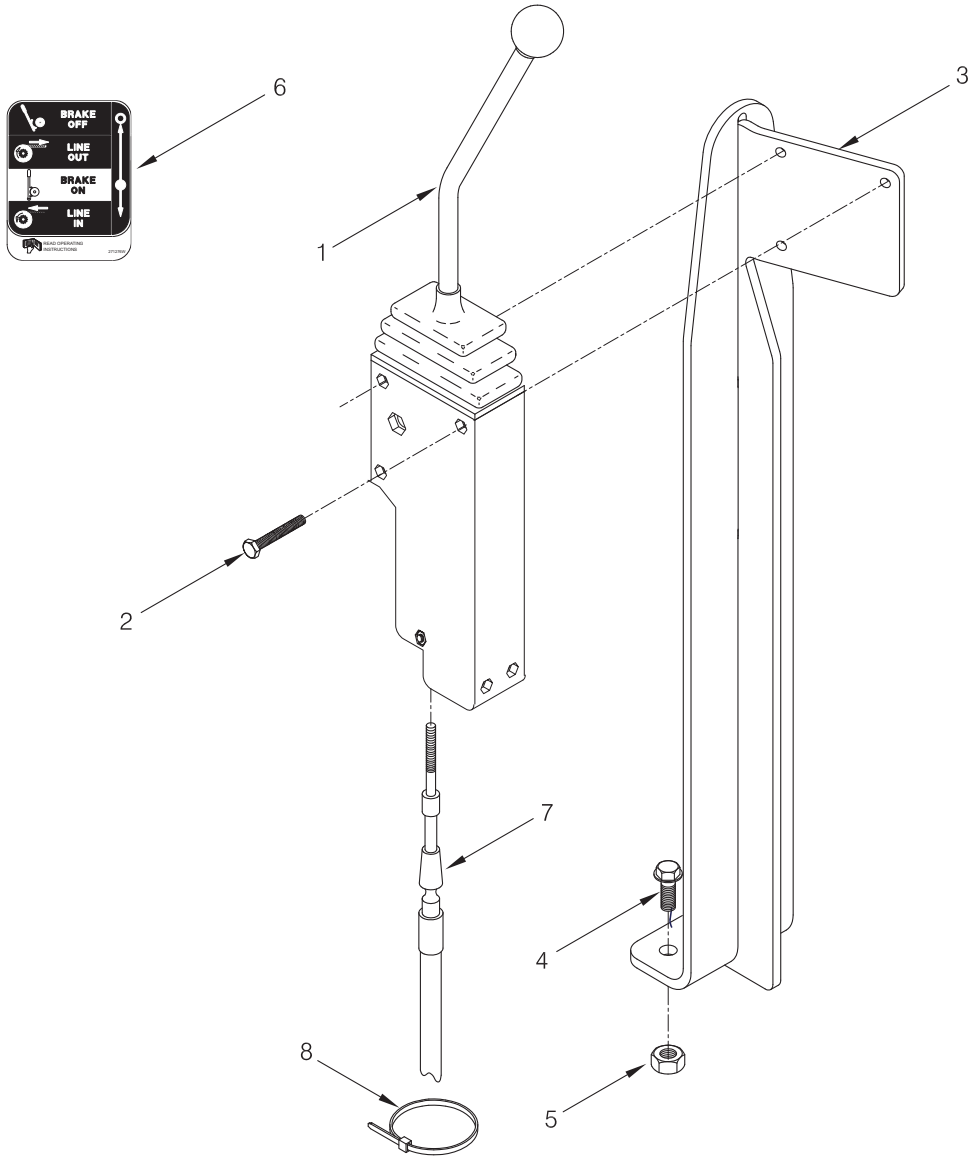


Item	Part No.	Description	Qty
	2300301W	**Valve, Control**	
1	14668W	. Fitting	2
2	241778W	. Screw	2
3	15156W	. Lockwasher	2
4	267018W	. Valve	1
5	15483W	. Fitting	2
6	2303001W	. Body, Valve	1
7	15962W	. Fitting	2
8	196006W	. Spool, Forward Mod	1
9	195992W	. Spring, Relief	2
10	16484W	. O-Ring	2
11	15860W	. O-Ring	2
12	195993W	. Plug	2
13	226445W	. Fitting	1
14	15027W	. Nut, Jam	2
15	195995W	. Capscrew	2
16	118361W	. O-Ring	1
19	196004W	. Fitting	1
20	262088W	. Spool, PFR	1
21	258217W	. . Spool, W 21	1
22	258220W	. . Ring	1

Item	Part No.	Description	Qty
23	196000W	. . Ring	1
24	195997W	. . Retainer, Detent	1
25	170987W	. . Ball	8
26	118365W	. . O-Ring	1
27	238992W	. . Spacer	1
28	2303923W	. . Spring, Spool	1
29	166905W	. . Retainer, Spring	1
30	196002W	. . Ring, Snap	1
31	196009W	. . Cap, Spool	1
32	39376W	. O-Ring	1
33	196003W	. Spool, Reverse Mod	1
34	15314W	. Fitting	1
35	279397W	. Cam	1
35	68370W	. Pin, Slotted	1
36	2300308W	. Relief	1
37	16484W	. . O-Ring	1
38	265787W	. . O-Ring	1
39	14595W	. Fitting	1
40	209744	. . O-Ring	1

Handling Gear, Power Controls

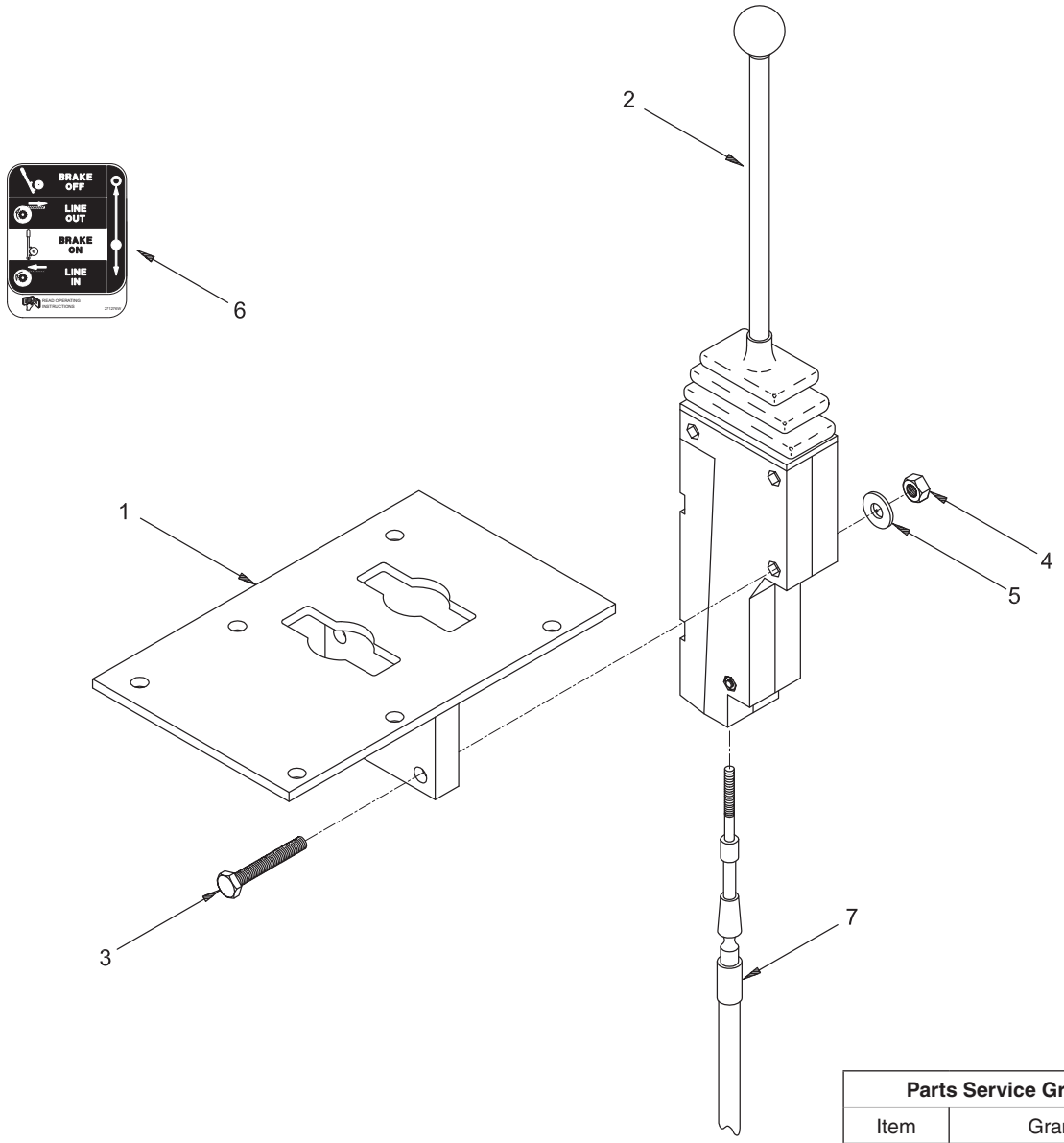
Case Quadtrac (R39)
without Freespool



Item	Part No.	Description	Qty
1	2304820W	Assembly, Control Lever (3-93)	1
2	2304380W	Capscrew	3
3	2305451W	Bracket, Control Lever	1
4	174413W	Screw, Flanged	2
5	156133W	Nut	2
6	277276W	Decal	1
7	2305382W	Cable, Control	1
8	137852W	Clamp, Strap	AR

Handling Gear, Power Controls

Caterpillar D6D, D6E (C43)
without Freespool



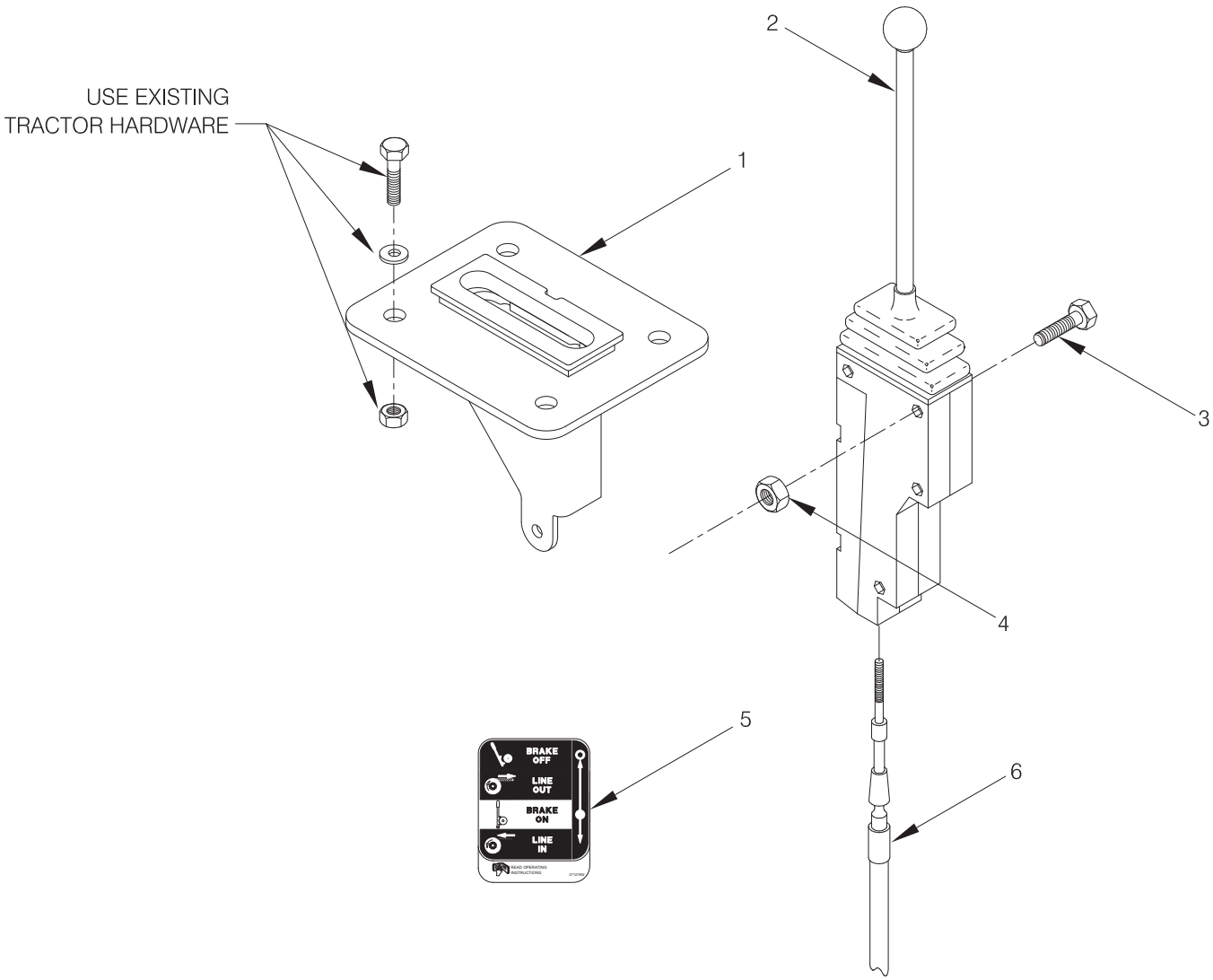
Parts Service Gram	
Item	Gram
All	Contact your dealer

Item		Part No.	Description	Qty
1	*a	2300326W	Bracket	1
	*b	2304506W	Bracket	1
2	*a	1300785W	Assembly, Control Lever (3-92)	1
	*b	2303984W	Assembly, Control Lever (3-93)	1
3	*a	18518W	Capscrew	3
	*b	2304380W	Capscrew	6
4	*a	191534W	Nut	3
5	*a	18515W	Washer	3
6		277276W	Decal	1
7		303944W	Cable, Control	1

*a Last Used on S/N AW6G-1021
*b First Used on S/N AW6G-1022

Handling Gear, Power Controls

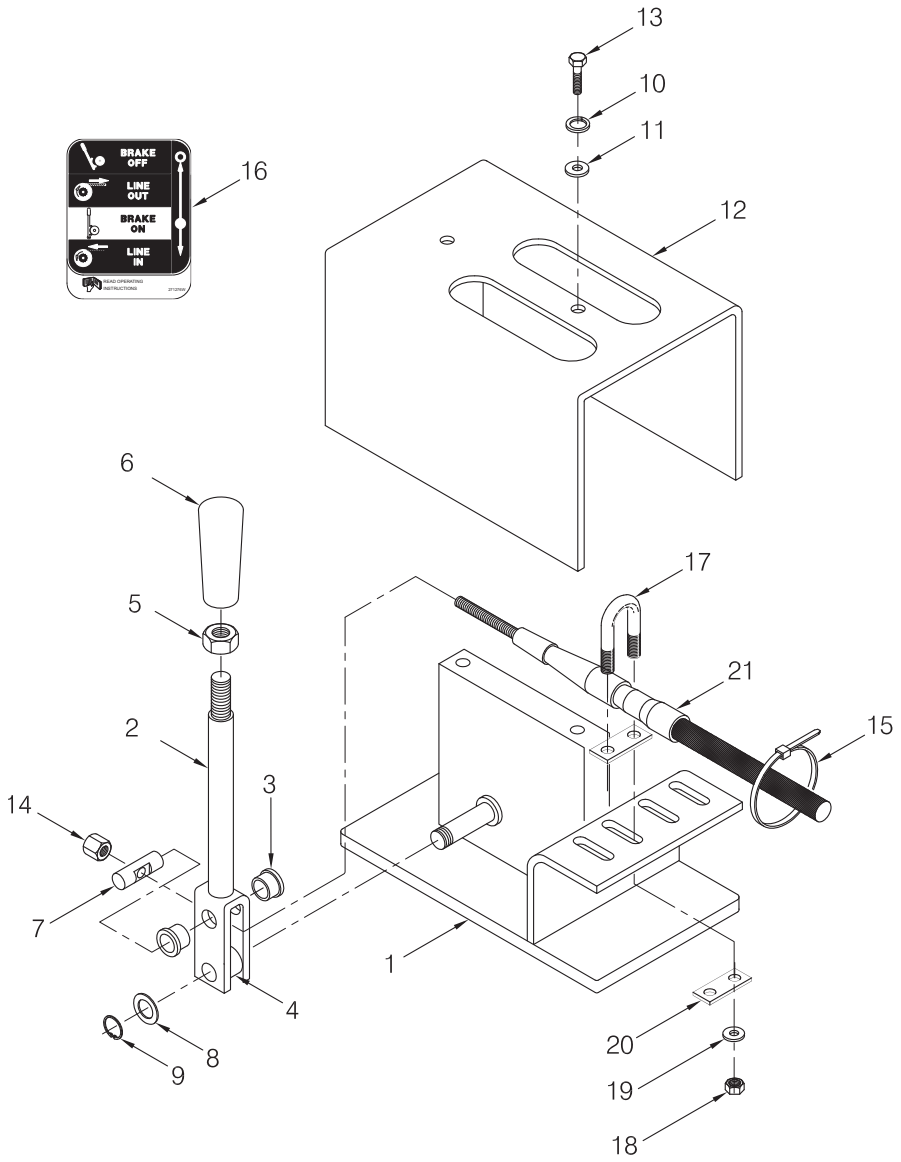
Caterpillar D6G (C73)
without Freespool



Item	Part No.	Description	Qty
	2306034W	**Assembly, Control Lever**	**1**
1	2306033W	. Bracket, Control Lever	1
2	2303982W	. Assembly, Control Lever (3-93)	1
3	18127W	. Capscrew	3
4	15113W	. Nut	3
5	277276W	Decal	1
6	303942W	Cable, Control	1

Handling Gear, Power Controls

Caterpillar D6H (C480, C481)
without Freespool
Last Used on S/N AW6G-1026

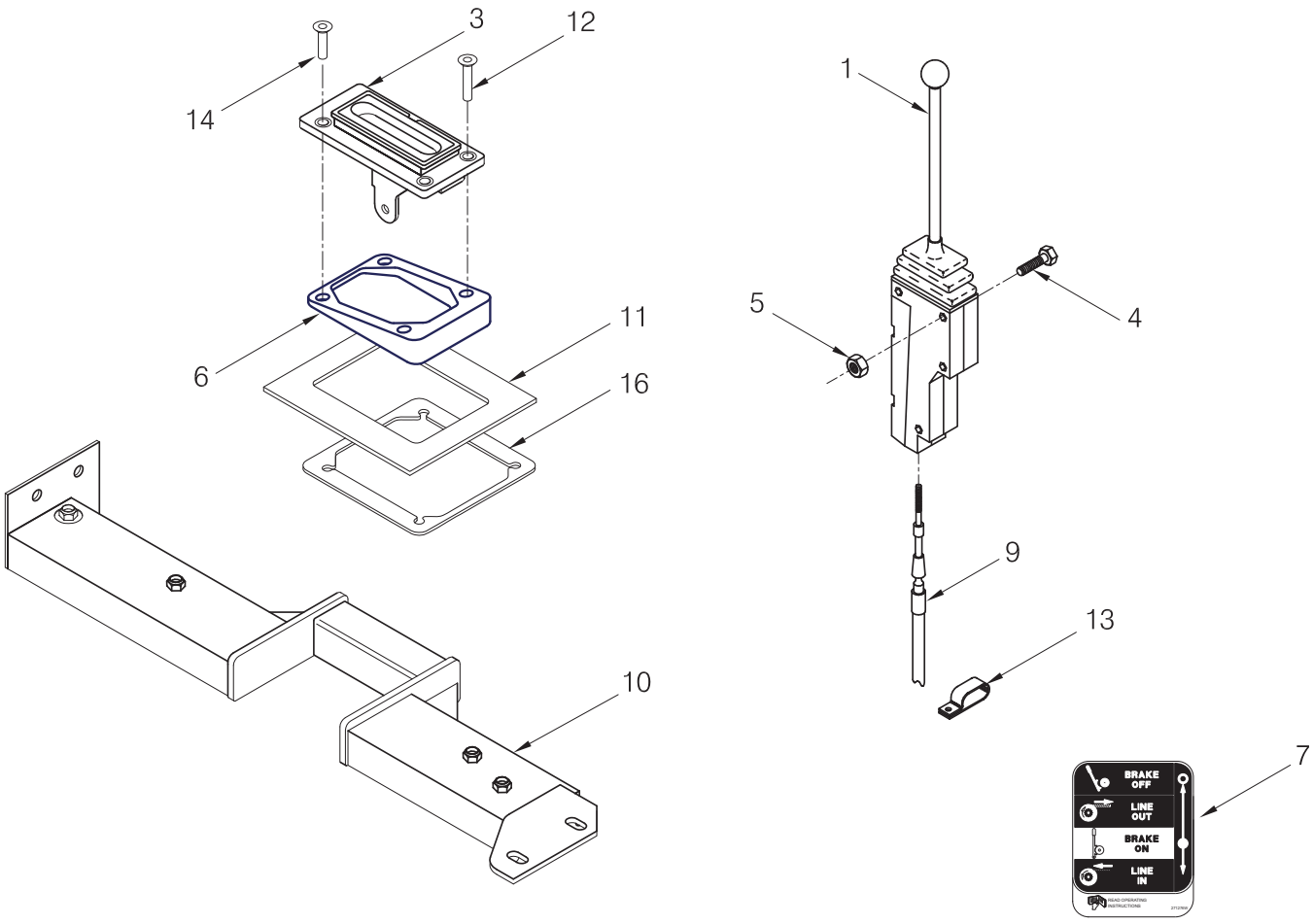


Item	Part No.	Description	Qty
	2302501W	**Assembly, Control Lever**	**1**
1	381199W	. Bracket	1
2	276036W	. Lever	1
3	196144W	. . Bushing	2
4	276043W	. . Bushing	1
5	15030W	. Nut	1
6	196469W	. Knob	1
7	196128W	. Pin	1
8	15135W	. Washer	1
9	190930W	. Ring, Snap	1
10	15155W	. Lockwasher	2
11	18515W	. Washer	2
12	332822W	. Cover	1

Item		Part No.	Description	Qty
13		16836W	. Capscrew	2
14		2301487W	. Nut, Tall	1
15		129563W	Strap, Tie	1
16		277276W	Decal, Control Lever	1
17	*a	NSS	U-Bolt	1
18	*a	NSS	Nut	2
19	*a	NSS	Washer	2
20	*a	NSS	Spacer	2
21		303941W	Cable, Control	1
	*a	Included in 2300995W U-Bolt Kit		

Handling Gear, Power Controls

Caterpillar D6R (C50), D6R Series II, III, & D6T (C71)
without Freespool
First Used on S/N AW6G-1027



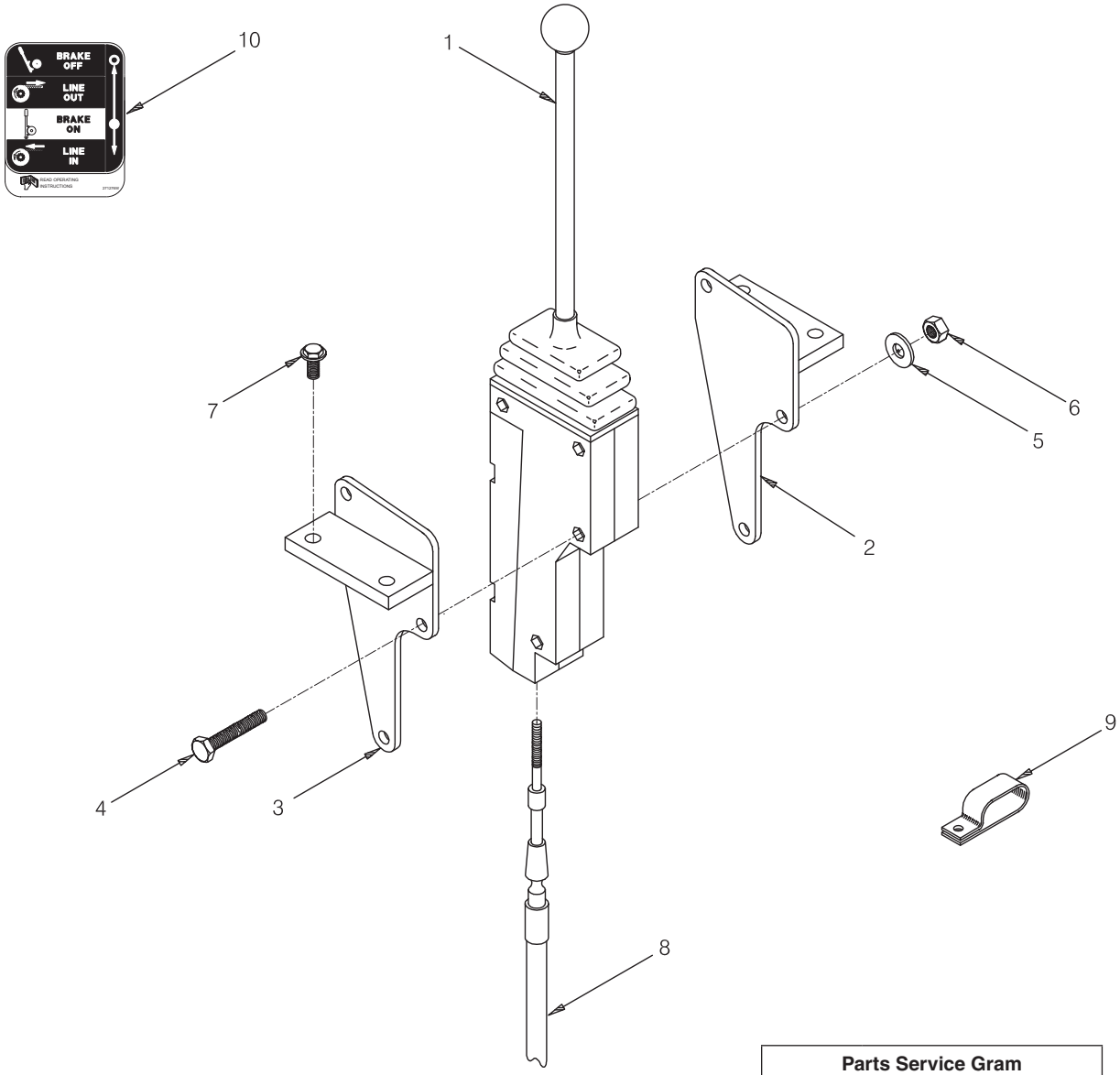
A - D6R (C50)
B - D6R Series II, III & D6T (C71)

Item		Part No.	Description	Qty A	Qty B
		2304557W	**Assembly, Control Lever**	**1**	**--**
		2305202W	**Assembly, Control Lever**	**--**	**1**
1		2303982W	. Lever, Control (3-93)	1	1
3		2304552W	. Bracket	1	--
		2305201W	. Bracket	--	1
4	*a	18127W	. Capscrew	3	3
5		15113W	. Nut	3	3
6		2304867W	Spacer	1	1
7		277276W	Decal, Control Lever	1	1
9		303941W	Cable, Control	1	1
10		2304571W	Assembly, Channel	1	1
11		2304569W	Gasket	1	1
12		2304868W	Capscrew	2	--
12		2305199W	Capscrew	--	2
13		129563W	Clamp, Strap	2	2
14		18738W	Capscrew	2	--
14		296162W	Capscrew	--	2
16		2305203W	Gasket	--	1

*a Use 358674W Sealant

Handling Gear, Power Controls

Fiat-Hitachi/New Holland FD/FH14E (A48)
without Freespool
Last Used on S/N AW6G-1021

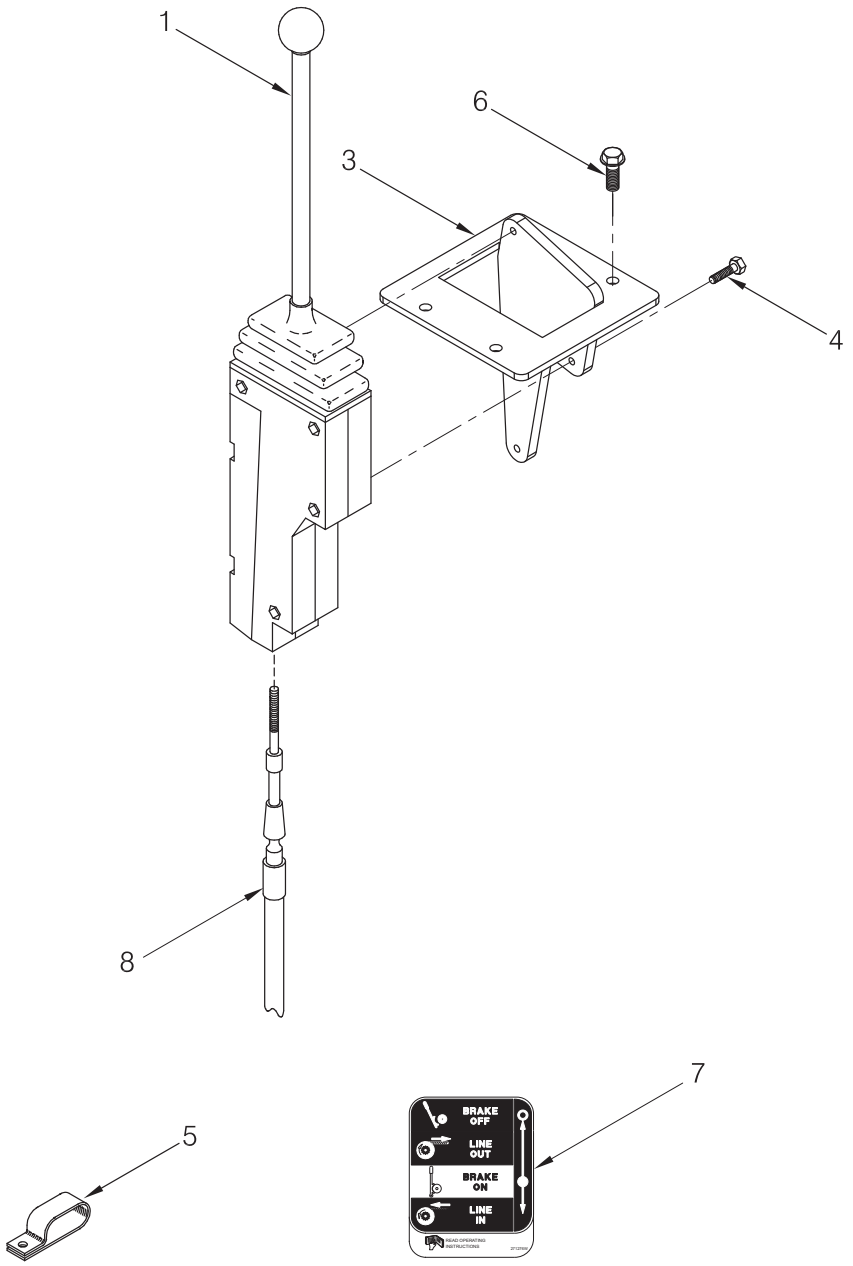


Parts Service Gram	
Item	Gram
All	Contact your dealer

Item	Part No.	Description	Qty
	2301271W	**Assembly, Control Lever**	**1**
1	1300785W	. Assembly, Control Lever (3-92)	1
2	1308437W	. Bracket, RH	1
3	1308436W	. Bracket, LH	1
4	18513W	. Capscrew	3
5	15155W	. Washer	3
6	15055W	. Nut	3
7	397161W	Capscrew	4
8	303945W	Cable, Control	1
9	110322W	Clamp	2
10	277276W	Decal	1

Handling Gear, Power Controls

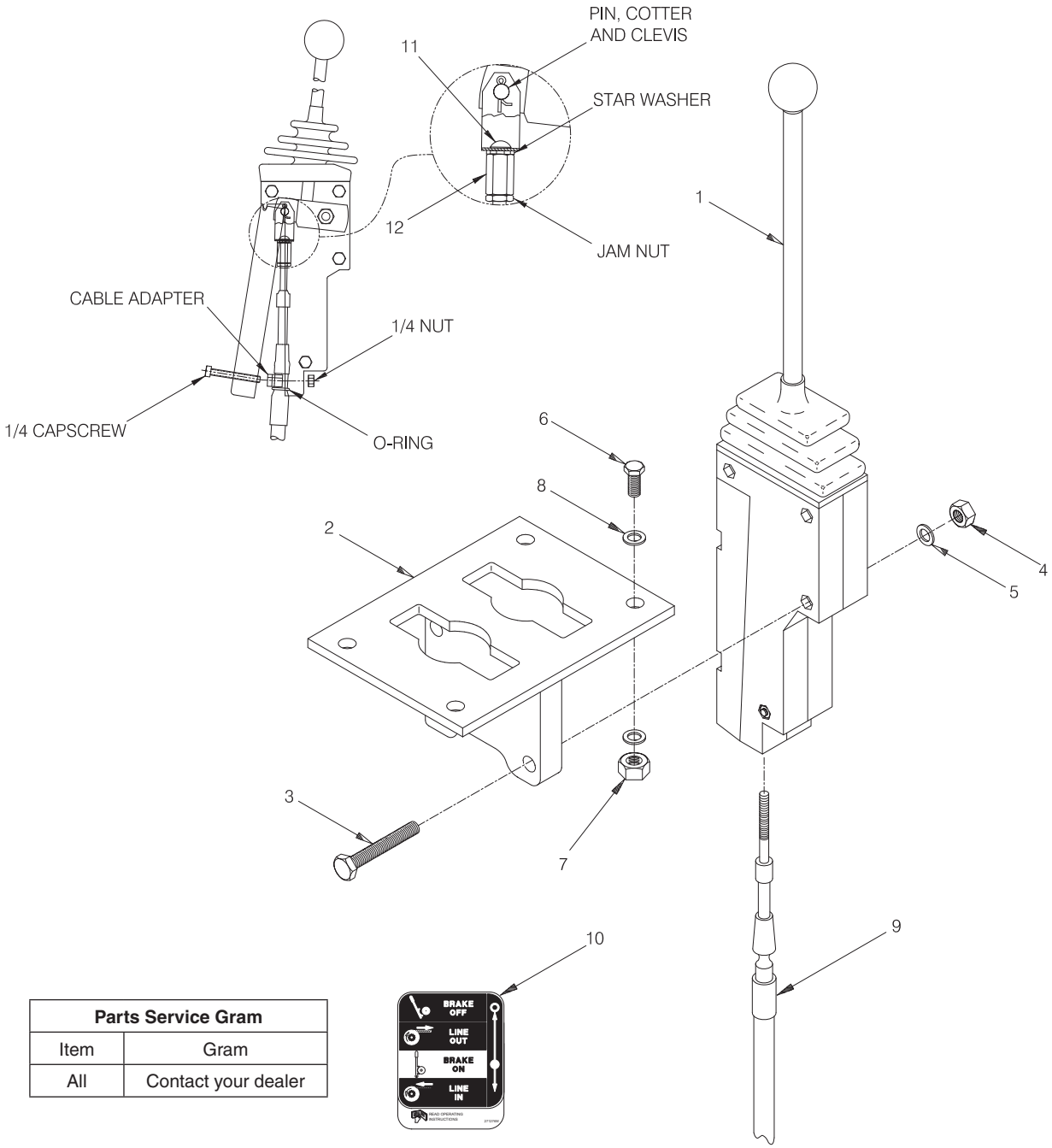
Fiat-Hitachi/New Holland FD/FH14E, FD 175/195, DX 175/195 (A48)
without Freespool
First Used on S/N AW6G-1022



Item	Part No.	Description	Qty
	2304330W	**Assembly, Control Lever**	**1**
1	2303984W	. Assembly, Control Lever (3-93)	1
3	2304395W	. Bracket	1
4	2304380W	. Capscrew	3
5	110322W	Clamp	2
6	397161W	Screw, Flanged	4
7	277276W	Decal	1
8	303945W	Cable, Control	1

Handling Gear, Power Controls

D65EX-12, D65EX-15 (K46)
without Freespool



Parts Service Gram	
Item	Gram
All	Contact your dealer

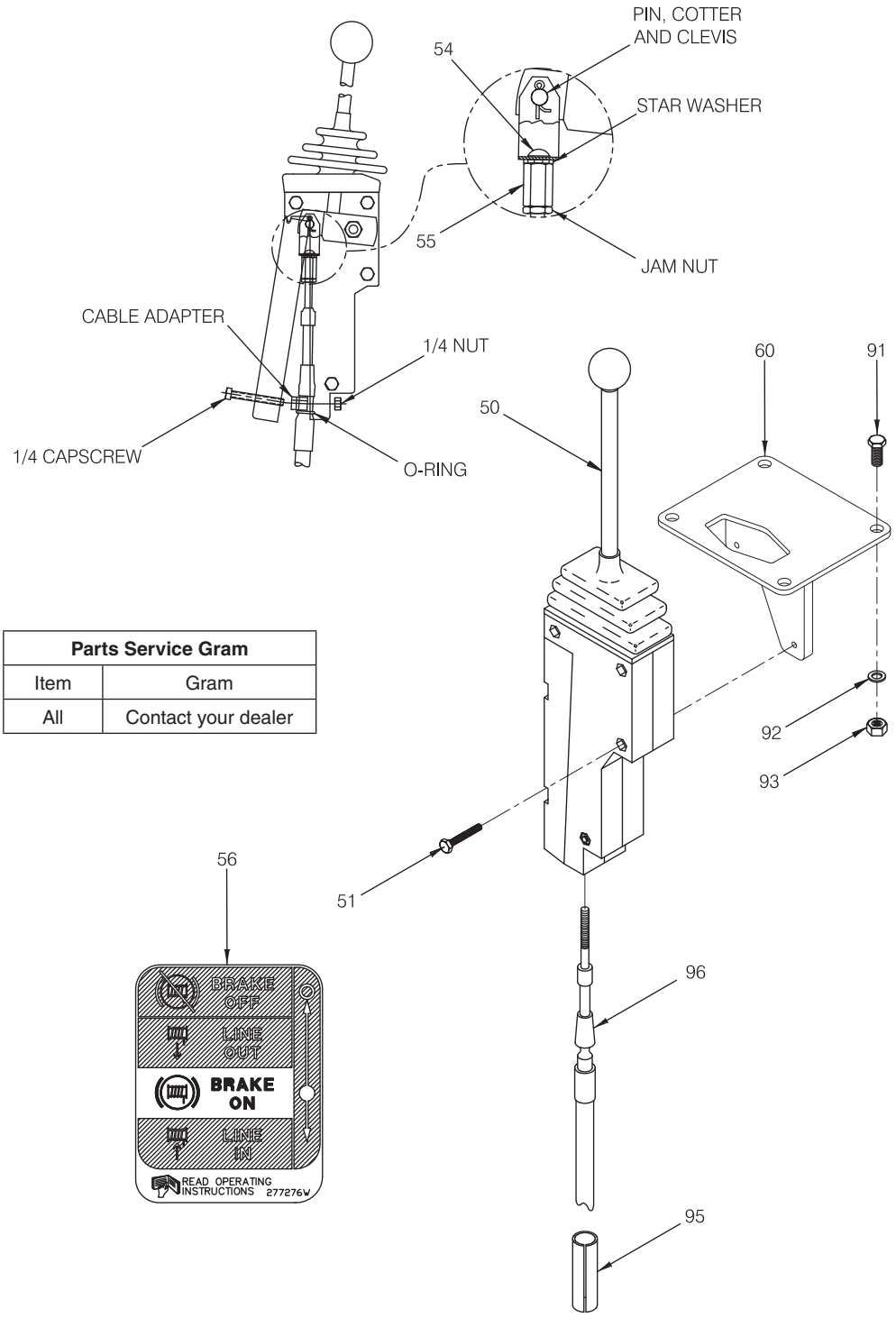
Item		Part No.	Description	Qty
1	*a, *c	1300785W	Assembly, Control Lever (See 3-92)	1
	*a, *d	2303984W	Assembly, Control Lever (See 3-93)	1
2	*c	2301030W	Bracket	1
	*d	2304304W	Bracket	1
3	*c	18518W	Capscrew	3
	*d	2304380W	Capscrew	3
4	*c	191534W	Locknut	3
5	*c	18515W	Washer	3
6	*b	16805W	Capscrew	4
7		221707W	Nut	4

Item	Part No.	Description	Qty
8	15134W	Washer	8
9	303944W	Cable	1
10	277276W	Decal	1
11	18717W	Capscrew	1
12	383881W	Nut, Tall	1

*a	Protective Trim P/N 2301055 Added
*b	Requires 230064W Sealant Kit
*c	Last Used on S/N AW6G-1021
*d	First Used on S/N AW6G-1022

Handling Gear, Power Controls

Komatsu D61EX-12, D61EX-15 (K47)
without Freespool



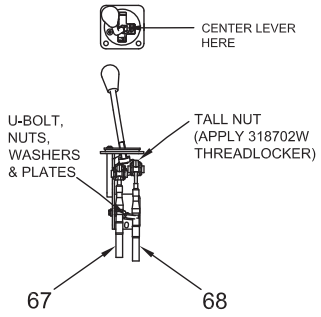
Parts Service Gram	
Item	Gram
All	Contact your dealer

Item	Part No.	Description	Qty
50	2303984W	Assembly, Control Lever (3-93)	1
51	2304380W	Capscrew	3
54	18717W	Capscrew	1
55	383881W	Nut, Tall	1
56	277276W	Decal, Control Lever PFR w/o FS	1
60	2314425	Bracket, Control Lever	1
90	137852W	Clamp, Strap (Not Shown)	4

Item	Part No.	Description	Qty
91	16828W	Capscrew	4
92	15134W	Washer	8
93	221707W	Nut	4
94	2301055W	Trim, Protective (Not Shown)	1.5 ft
95	2303039W	Guard, Cable	1
96	303944W	Cable, Control	1

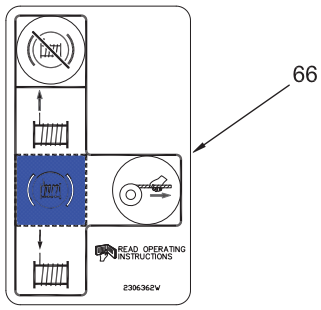
Handling Gear, Power Controls

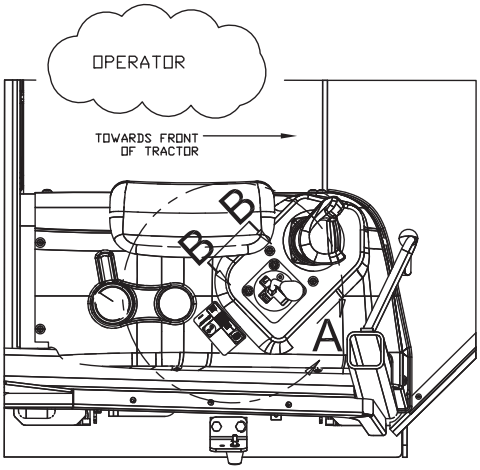
Case 1650L (R40), 1850K (R49)
with Freespool



SECTION B-B

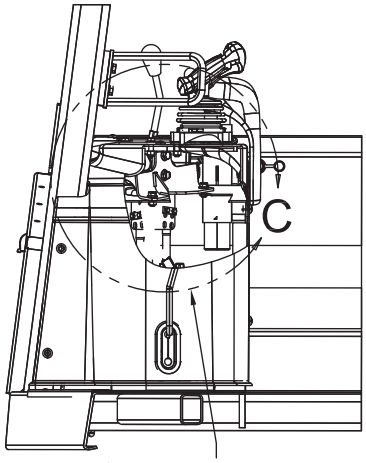
DETAIL VIEW OF CONTROL LEVER & CABLES





RIGHT HAND SIDE OF CONSOLE

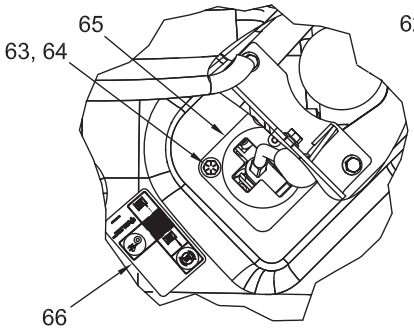
POWER CONTROLS
CONTROL LEVER INSTALLATION



CUTOUT VIEW OF CONSOLE TO SHOW REINFORCEMENT BRACKET & CONTROL LEVER

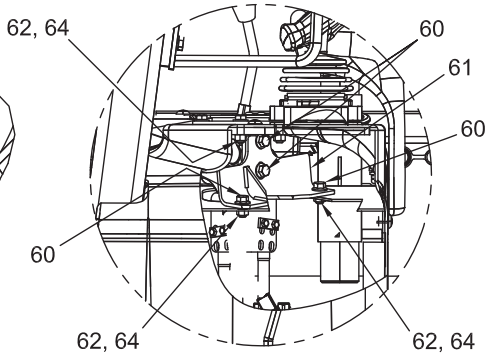
RIGHT HAND SIDE OF CONSOLE

VIEWED TOWARD BACK OF TRACTOR



DETAIL A

CUTOUT VIEW TO SHOW CONTROL LEVER REINFORCEMENT BRACKET



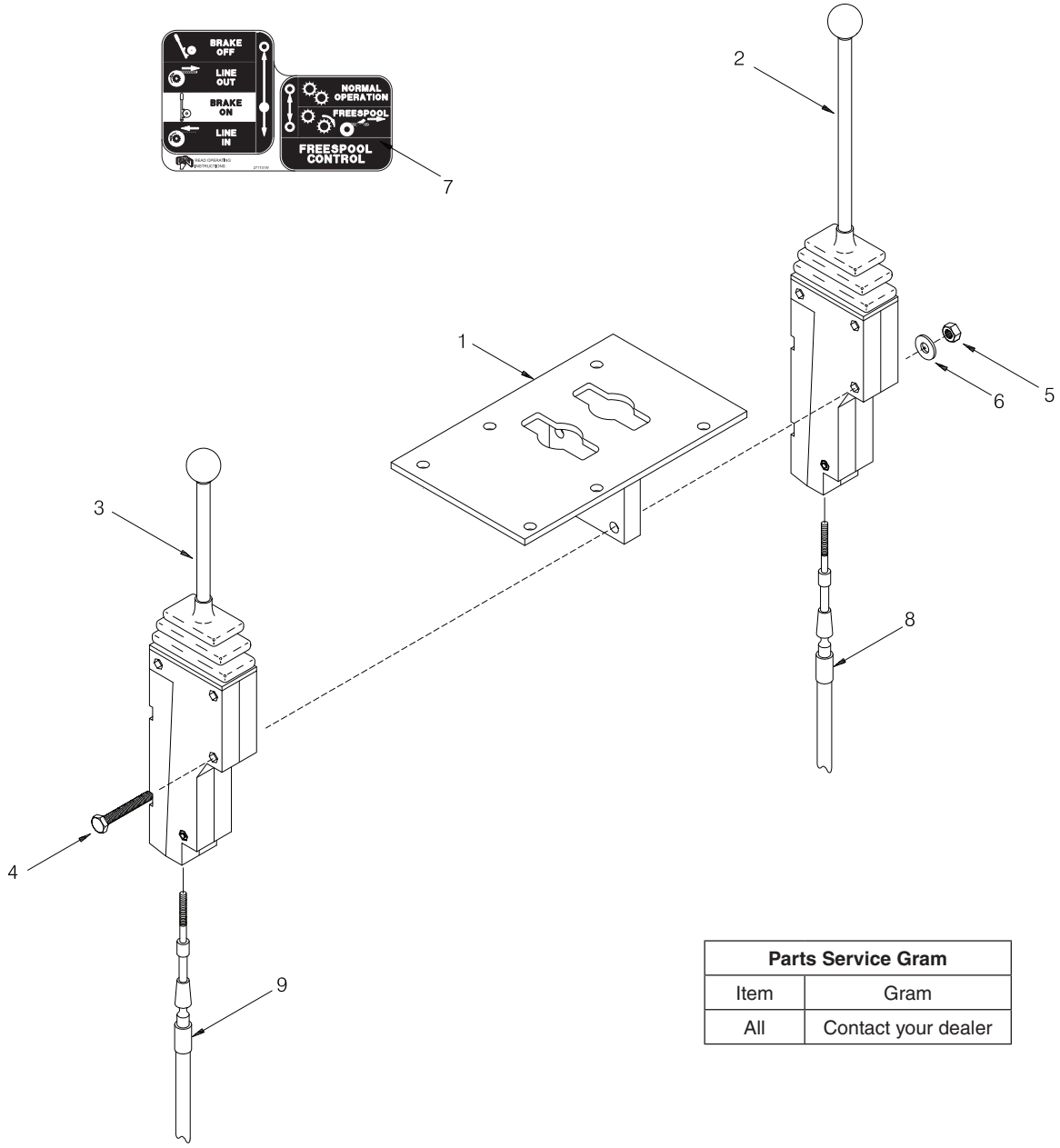
DETAIL C

Item	Part No.	Description	Qty
60	134803W	Screw, Flange	4
61	2310108	Braket	1
62	221707W	Nut	5
63	221499W	Capcrew	3
64	15134W	Washer	8

Item	Part No.	Description	Qty
65	2310105	Assembly, Control Lever (3-96)	1
66	2306362W	Decal	1
67	303944W	Cable, Control	1
68	303942W	Cable, Freespool	1

Handling Gear, Power Controls

Caterpillar D6D, D6E (C43)
with Freespool



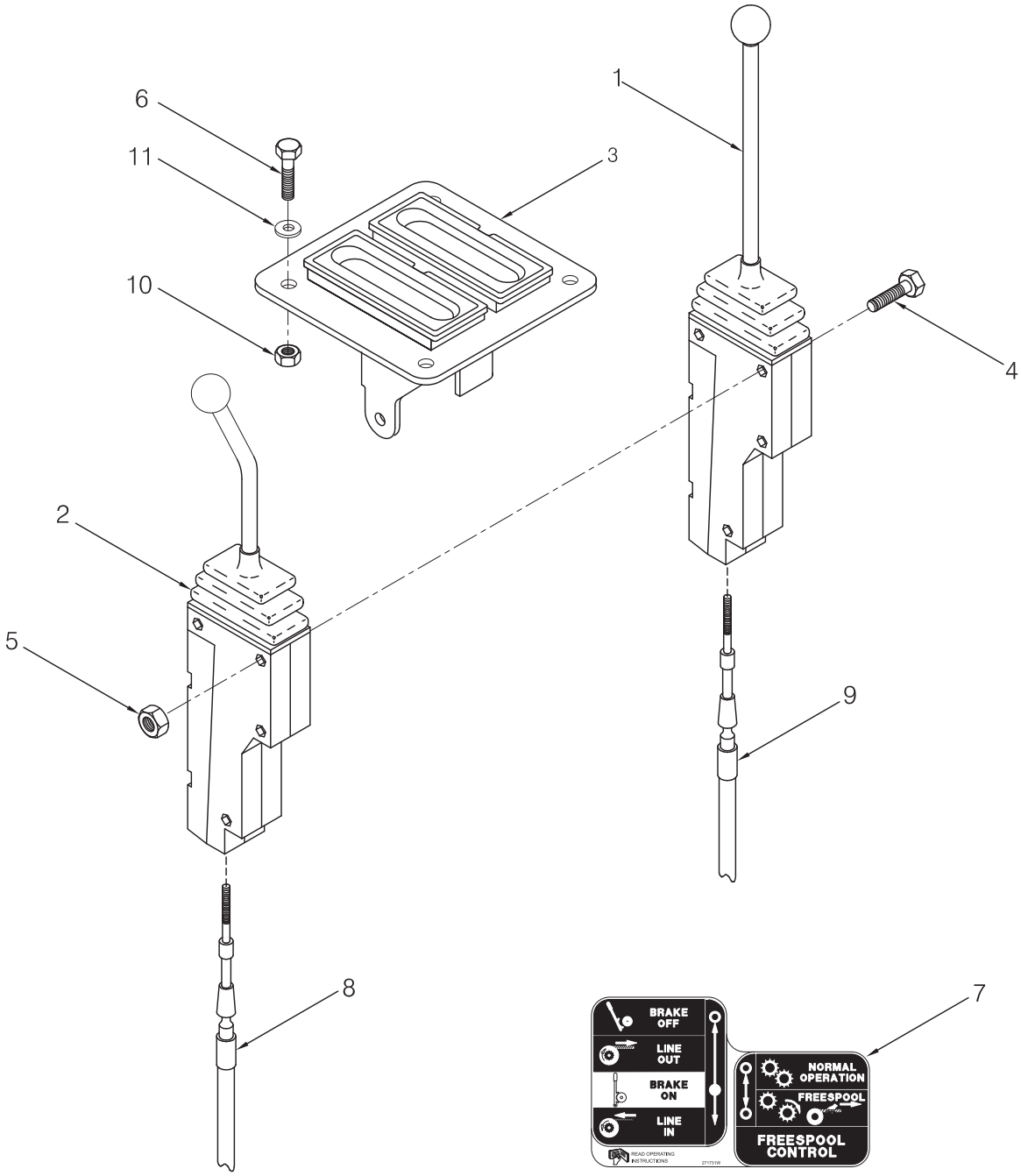
Parts Service Gram	
Item	Gram
All	Contact your dealer

Item		Part No.	Description	Qty
1	*a	2300326W	Bracket	1
		2304506W	Bracket	1
2	*a	1300785W	Assembly, Control Lever (3-92)	1
		2303984W	Assembly, Control Lever (3-93)	1
3	*a	383880W	Assembly, Control Lever - Freespool (3-92)	1
		2303982W	Assembly, Control Lever - Freespool (3-93)	1
4	*a	18528W	Capscrew	3
		2304380W	Capscrew	6
5	*a	191534W	Nut	3
6	*a	18515W	Washer	3
7		271731W	Decal	1
8		303941W	Cable, Control	1
9		303938W	Cable, Freespool	1

*a Last Used on S/N AW6G-1021

Handling Gear, Power Controls

Caterpillar D6G (C73)
with Freespool
Page 1 of 2



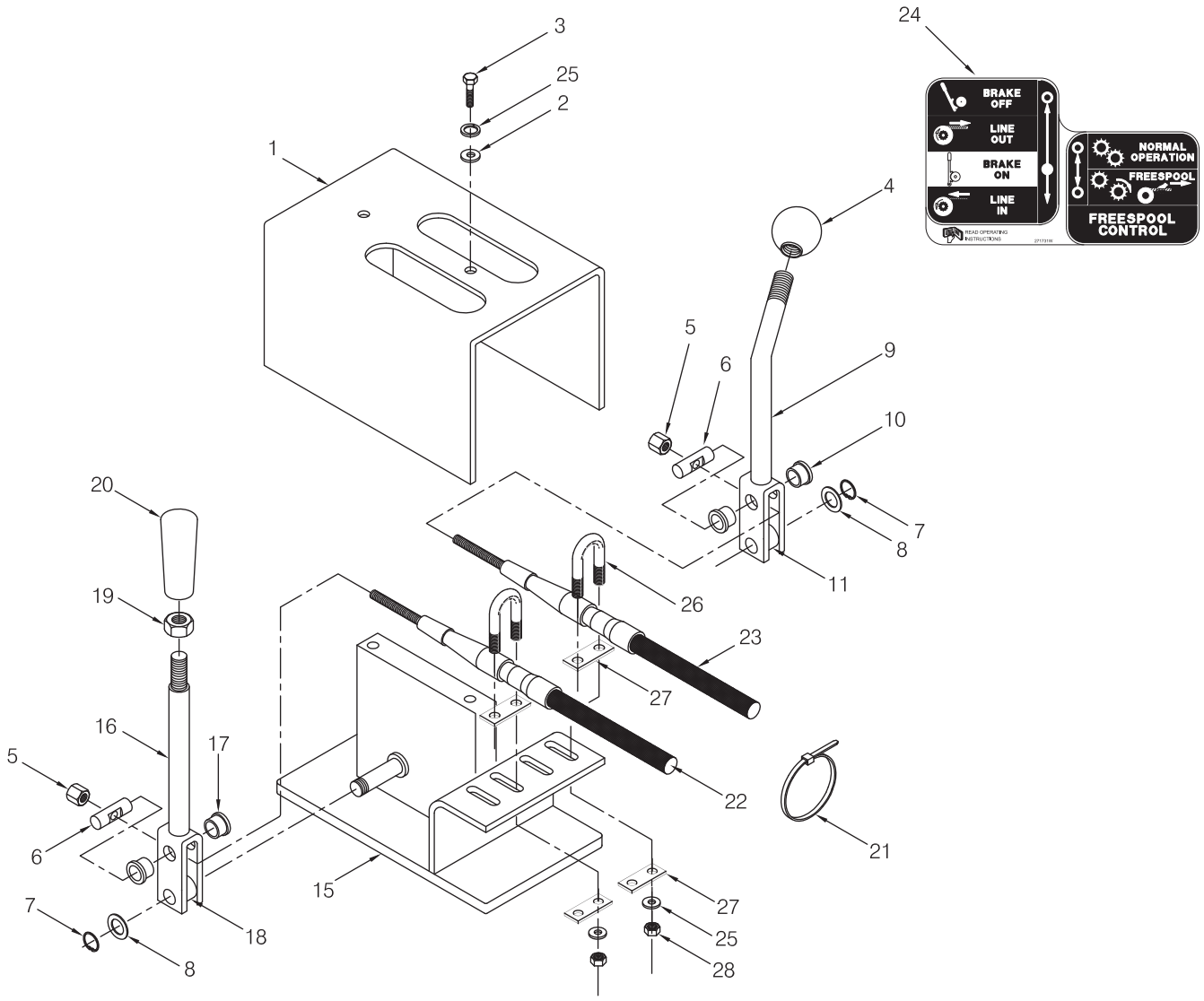
Handling Gear, Power Controls

Caterpillar D6G (C73)
with Freespool
Page 2 of 2

Item	Part No.	Description	Qty
	2304565W	**Assembly, Control Lever**	**1**
1	2303982W	. Assembly, Control Lever (3-93)	1
2	2303986W	. Assembly, Control Lever - Freespool (3-93)	1
3	2304566W	, Bracket, Control Lever	1
4	2304382W	. Capscrew	3
5	15113W	. Nut	3
6	16338W	Capscrew	4
7	271731W	Decal	1
8	303939W	Cable, Freespool	1
9	303942W	Cable, Control	1
10	15054W	Nut	4
11	15154W	Washer	4

Handling Gear, Power Controls

Caterpillar D6H (C480, C481)
with Freespool
Page 1 of 2



Handling Gear, Power Controls

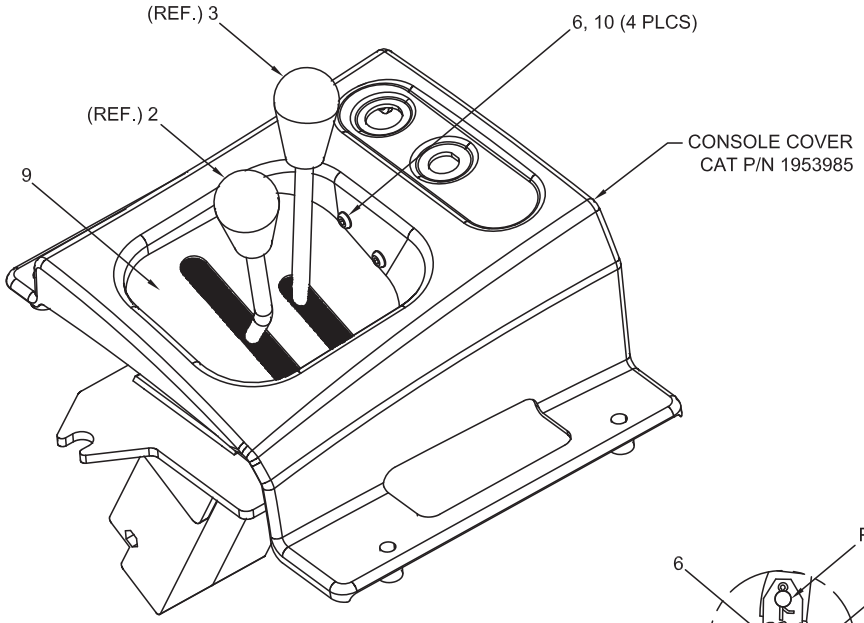
Caterpillar D6H (C480, C481)
with Freespool
Page 2 of 2

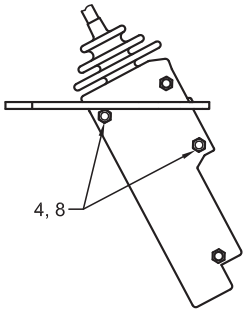
Item	Part No.	Description	Qty
	383150W	**Assembly, Control Lever**	**1**
1	332822W	. Cover	1
2	18515W	. Washer	2
3	16836W	Capscrew	2
4	243189W	. Knob	1
5	2301487W	. Locknut	2
6	196128W	. Pin	2
7	190930W	. Ring, Snap	2
8	15155W	. Washer	2
9	276037W	. Lever	1
10	196144W	. . Bushing	2
11	276043W	. . Bushing	1
15	381199W	. Bracket	1
16	276036W	. Lever	1
17	196144W	. . Bushing	2
18	276043W	. . Bushing	1
19	15030W	. Nut	1
20	2303105W	. Knob	1
21	129563W	Clamp, Strap	1
22	303944W	Cable, Control	1
23	303942W	Cable, Freespool	1
24	271731W	Decal	1
25 *a	NSS	Lockwasher	6
26 *a	NSS	U-Bolt	2
27 *a	NSS	Spacer	4
28 *a	NSS	Nut	4

*a Included in 2300995W U-Bolt Kit
(Quantity 2 Kits Used in This Installation)

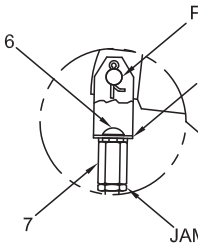
Handling Gear, Power Controls

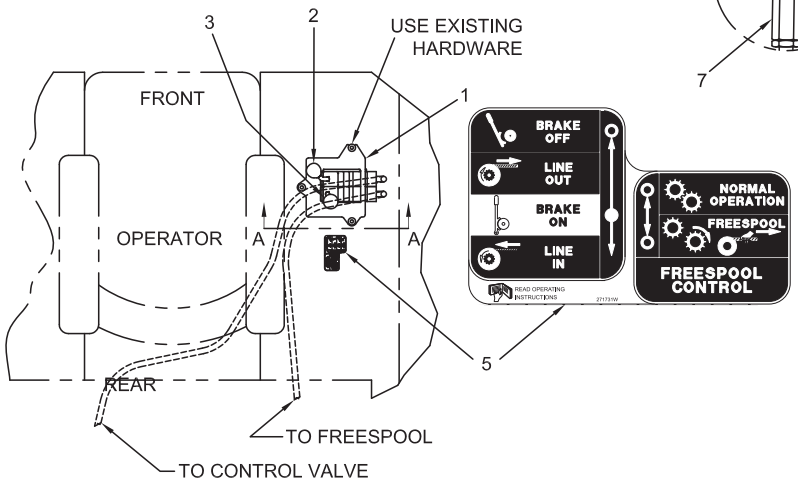
Caterpillar D6N (C47) with Freespool
for Tractors with Mechanical Controls
Page 1 of 2

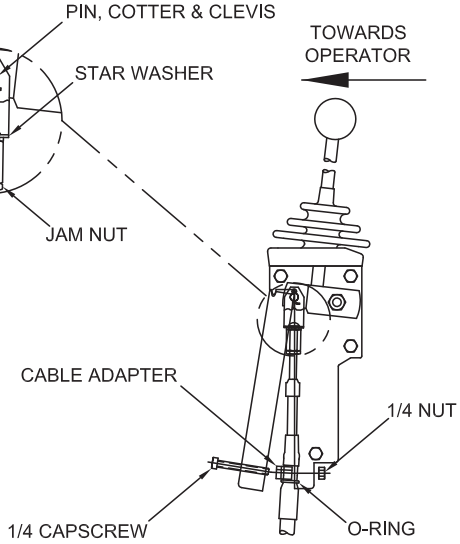




SECTION A-A







CABLE ATTACHMENT DETAIL

Handling Gear, Power Controls

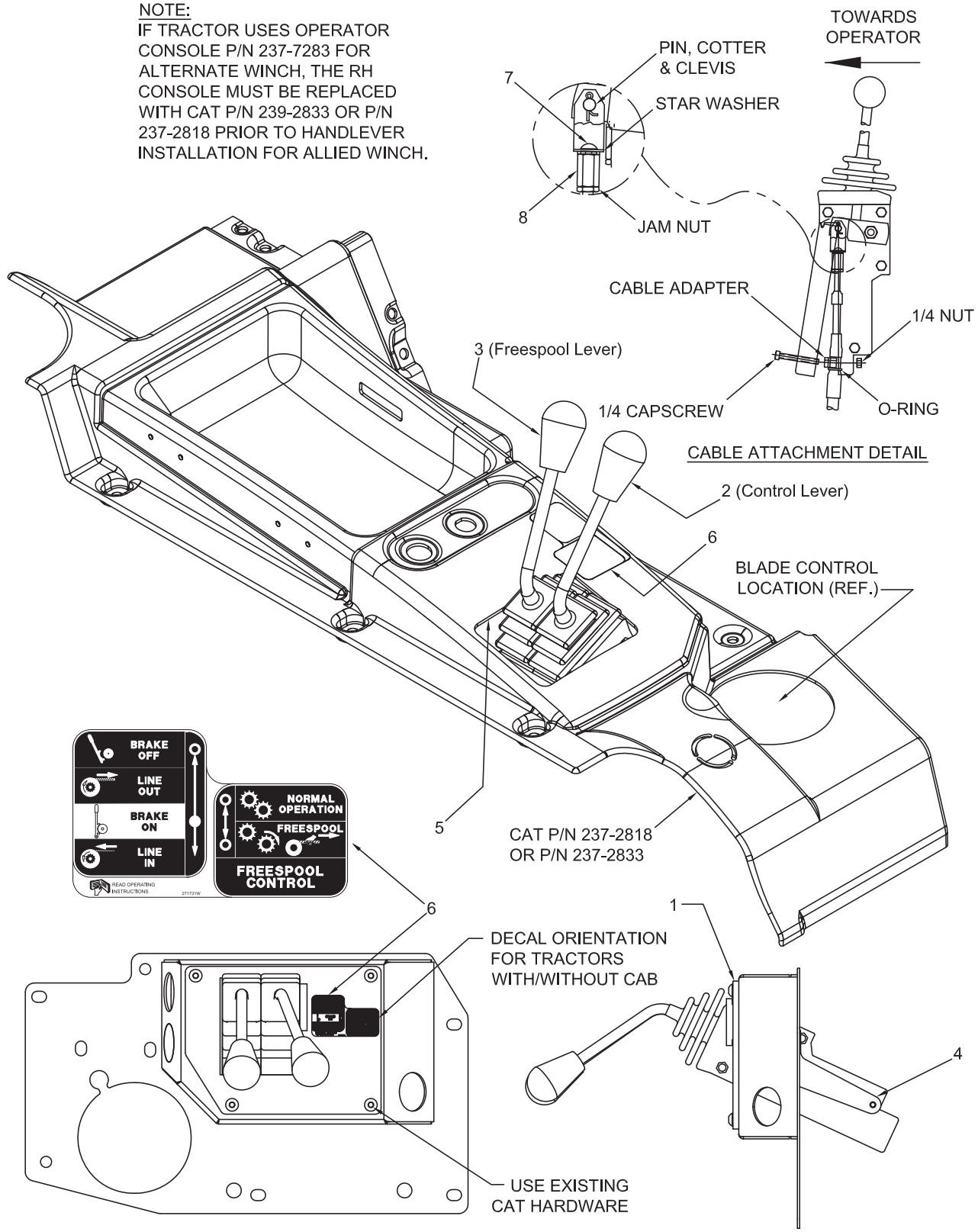
Caterpillar D6N (C47) with Freespool
for Tractors with Mechanical Controls
Page 2 of 2

Item		Part No.	Description	Qty
1		2305612W	Bracket	1
2		2305979W	Assembly, Control Lever (3-93)	1
3		2305978W	Assembly, Control Lever - Freespool (3-93)	1
4	*a	2301054W	Capscrew	2
5		271731W	Decal	1
6	*a	18717W	Capscrew	6
7		383881W	Nut, Tall	2
8		15054W	Nut	2
9		2305977W	Plate, Cover	1
10		15004W	Nut	4
11		137852W	Clamp, Strap (Not Shown)	AR
12		2303437W	Decal (ISO Standard Only, Not Shown)	1
13		303939W	Cable, Control (Not Shown)	1
14		303942W	Cable, Freespool (Not Shown)	1

*a Use 318702W Thread Lock

Handling Gear, Power Controls

For Tractors with Pilot Hydraulic Controls, with or without Cab
Caterpillar D6N (C78) with Freespool
Page 1 of 2



Handling Gear, Power Controls

For Tractors with Pilot Hydraulic Controls, with or without Cab
Caterpillar D6N (C78) with Freespool
Page 2 of 2

Item		Part No.	Description	Qty
1		2306661W	Bracket	1
2		2306703W	Assembly, Control Lever	1
3		2306704W	Assembly, Control Lever - Freespool	1
4		2304381W	Capscrew	2
5		225871	Trim	1.67 ft
6		271731W	Decal	1
7	*a	18717W	Capscrew	2
8		383881W	Nut, Tall	2

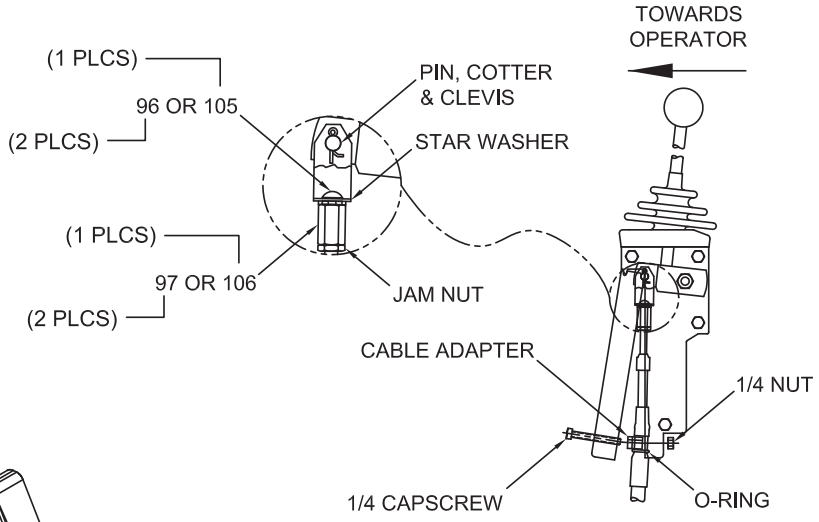
Item	Part No.	Description	Qty
11	137852W	Clamp, Strap (Not Shown)	AR
12	2303437W	Decal (ISO Standard Only, Not Shown)	1
13	303939W	Cable, Control (Not Shown)	1
14	303942W	Cable, Freespool (Not Shown)	1

*a Use 318702W Thread Lock

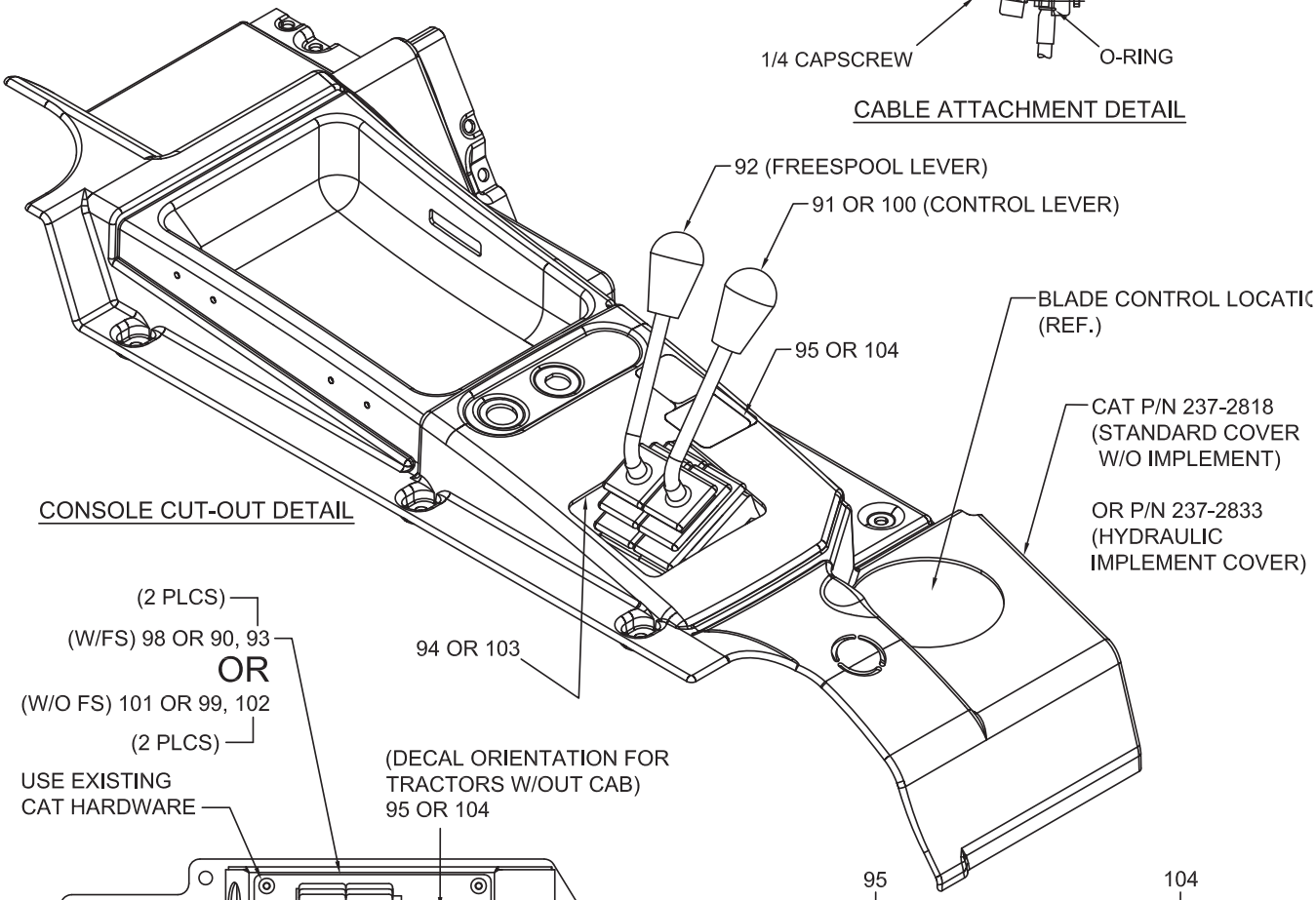
Handling Gear, Power Controls

For Tractors with Pilot Hydraulic Controls, with or without Cab
Caterpillar D6N (C81)
Page 1 of 2

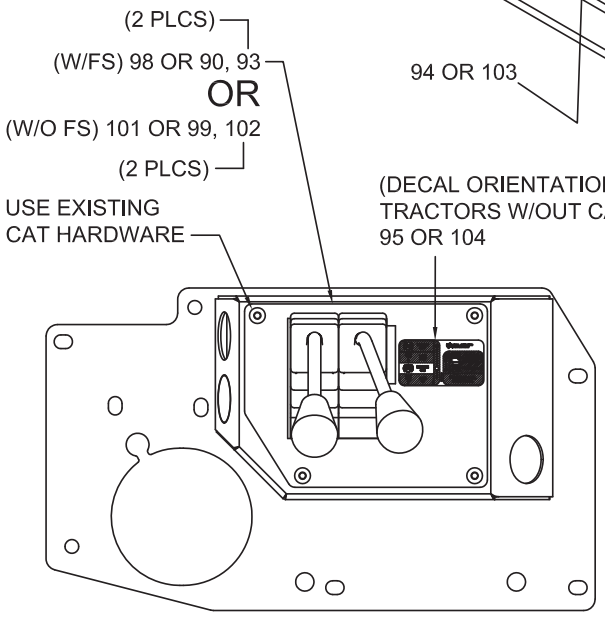
NOTE:
IF TRACTOR USES OPERATOR CONSOLE P/N 237-7283 FOR ALTERNATE WINCH, THE RH CONSOLE MUST BE REPLACED WITH CAT P/N 239-2833 OR P/N 237-2818 PRIOR TO CONTROL LEVER INSTALLATION FOR ALLIED WINCH.



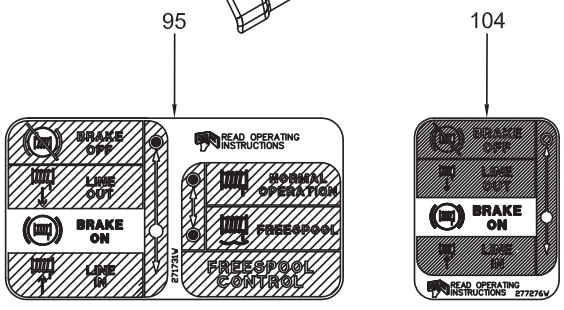
CABLE ATTACHMENT DETAIL



CONSOLE CUT-OUT DETAIL



CONSOLE SHOWN WITH FREESPOOL



CONTROL LEVER DECALS

Handling Gear, Power Controls

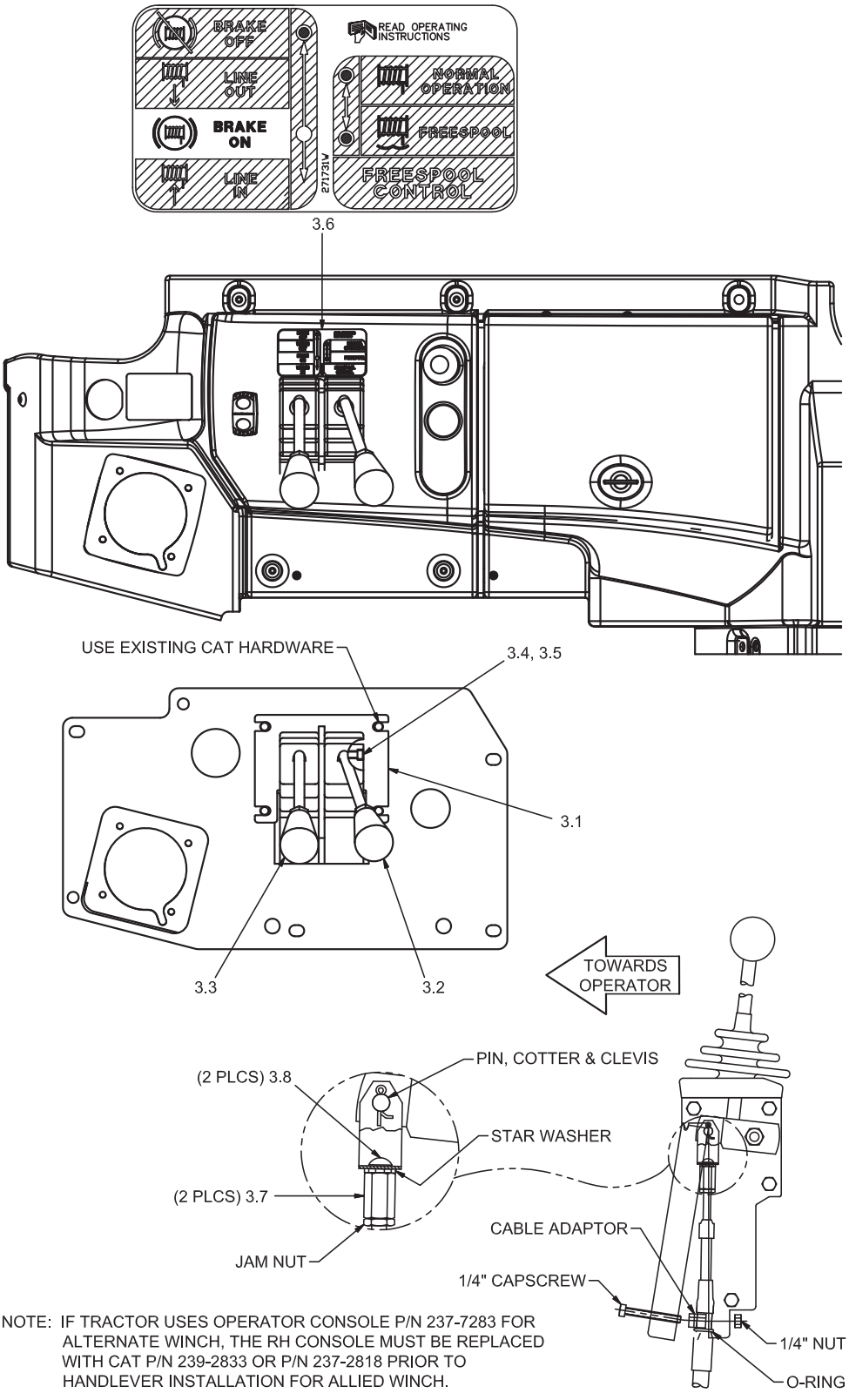
For Tractors with Pilot Hydraulic Controls, with or without Cab
Caterpillar D6N (C81)
Page 2 of 2

Item		Part No.	Description	Qty
90	*a	2306661W	Bracket	1
91	*a	2306703W	Assembly, Control Lever (3-93)	1
92	*a	2306704W	Assembly, Control Lever - Freespool (3-93)	1
93	*a	2304381W	Capscrew	2
94	*a	225871	Trim	1.67 ft
95	*a	271731W	Decal	1
96	*a, *c	18717W	Capscrew	2
97	*a	383881W	Nut, Tall	2
98	*a	2314138	Bracket	1
99	*b	2314466	Bracket	1
100	*b	2306703W	Lever, Control	1
101	*b	2314472	Bracket	1
102	*b	2304380W	Capscrew	2
103	*b	225871	Trim	1.67 ft
104	*b	227276W	Decal	1
105	*b, *c	18717W	Capscrew	1
106	*b	383881W	Nut, Tall	1
107	*a, *b	303939W	Cable, Control (Not Shown)	1
108	*a	303942W	Cable, Freespool (Not Shown)	1

*a With Freespool
*b Without Freespool
*c Use 318702W Thread Lock

Handling Gear, Power Controls

For Tractors with & without Ripper or Dual Contorls
Caterpillar D6N (C810)
Page 1 of 2



NOTE: IF TRACTOR USES OPERATOR CONSOLE P/N 237-7283 FOR ALTERNATE WINCH, THE RH CONSOLE MUST BE REPLACED WITH CAT P/N 239-2833 OR P/N 237-2818 PRIOR TO HANDLEVER INSTALLATION FOR ALLIED WINCH.

CAT P/N 237-2818 - STANDARD COVER W/O IMPLEMENT.
CAT P/N 237-2833 - HYDRAULIC IMPLEMENT COVER.

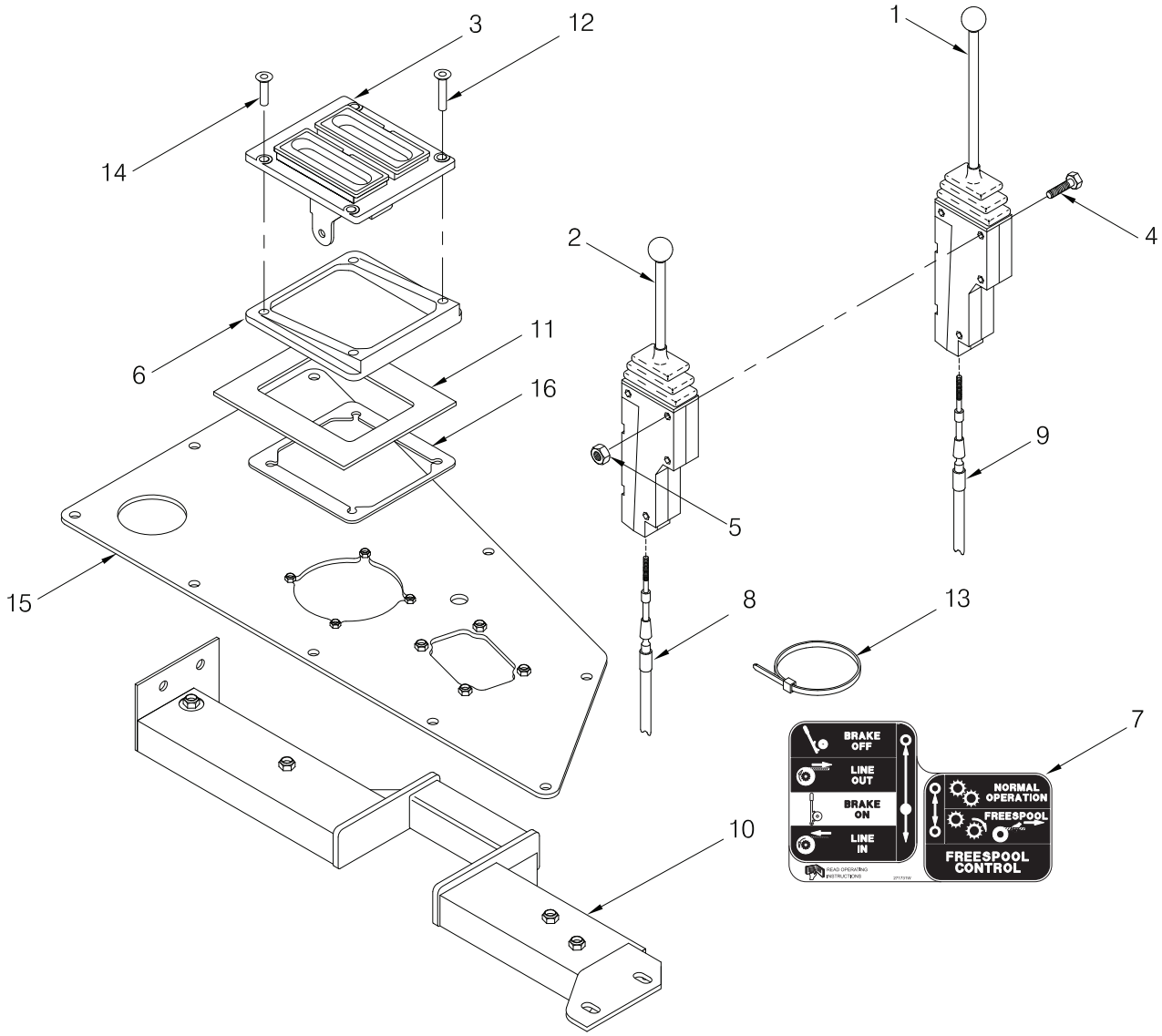
Handling Gear, Power Controls

For Tractors with & without Ripper or Dual Contorls
Caterpillar D6N (C810)

Item	Part No.	Description	Qty
3.1	2314643	Mount, Control Lever	1
3.2	2306704W	Assembly, Control Lever - Freespool (3-93)	1
3.3	2306703W	Assembly, Control Lever (3-93)	1
3.4	2304878W	Capscrew	3
3.5	221703W	Nut	3
3.6	271731W	Decal	1
3.7	383881W	Nut, Tall	2
3.8	18717W	Capscrew	2
3.9	225871	Trim, Edge (Not Shown)	1.67 ft

Handling Gear, Power Controls

Caterpillar D6R (C50), D6R Series II & III; D6T (C71)
with Freespool
First Used on S/N AW6G-1027
Page 1 of 2



Handling Gear, Power Controls

Caterpillar D6R (C50), D6R Series II & III; D6T (C71)
with Freespool
First Used on S/N AW6G-1027
Page 2 of 2

A - D6R (C50)
B - D6R Series II & III; D6T (C71)

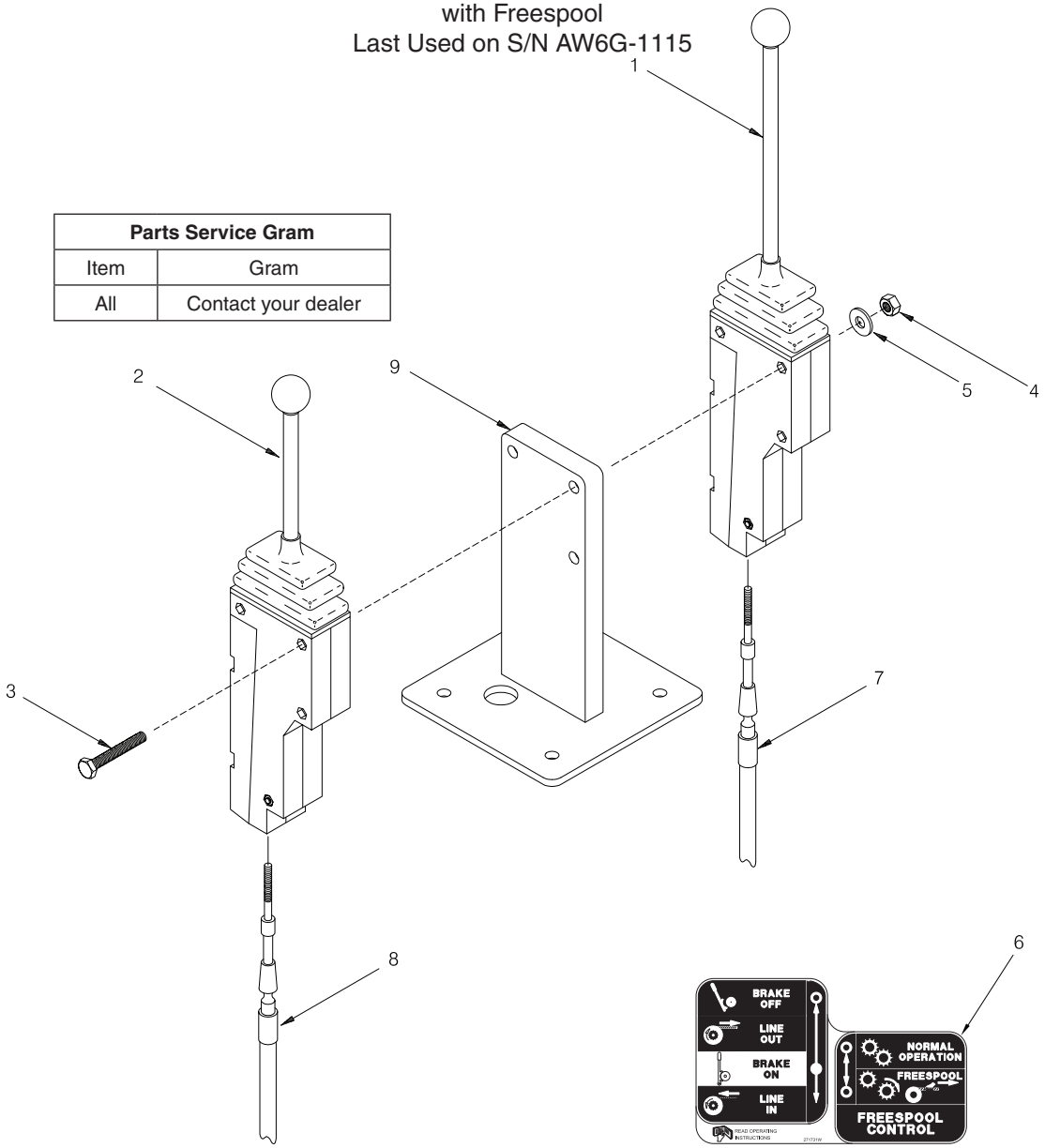
Item		Part No.	Description	Qty A	Qty B
		2304899W	**Assembly, Control Lever**	**1**	**1**
1		2303982W	. Assembly, Control Lever (3-93)	1	1
2		2303986W	. Assembly, Control Lever - Freespool (3-93)	1	1
3		2304898W	. Bracket, Control Lever	1	1
4	*a	2304878W	. Capscrew	2	2
5		15113W	. Nut	2	2
6		2304879W	Spacer	1	1
7		271731W	Decal	1	1
8		303942W	Cable, Freespool	1	1
9		303944W	Cable, Control	1	1
10		2304571W	Assembly, Channel	1	--
11		2304569W	Gasket	1	1
12		2304881W	Capscrew	2	--
12		2305199W	Capscrew	--	1
13		129563W	Clamp, Strap	2	2
14		18723W	Capscrew	2	--
14		296162W	Capscrew	--	2
15		2304577W	Cover	1	--
16		2305203W	Gasket	--	1
17		2301055W	Trim, Vinyl (Not shown)	AR	AR

*a Use 358674W Sealant

Handling Gear, Power Controls

Dresser/Dressta TD15E PS (H44), TD15E DD (H45), TD15H PS (H46), TD15H Tier II and TD15M (H47) with Freespool
Last Used on S/N AW6G-1115

Parts Service Gram	
Item	Gram
All	Contact your dealer

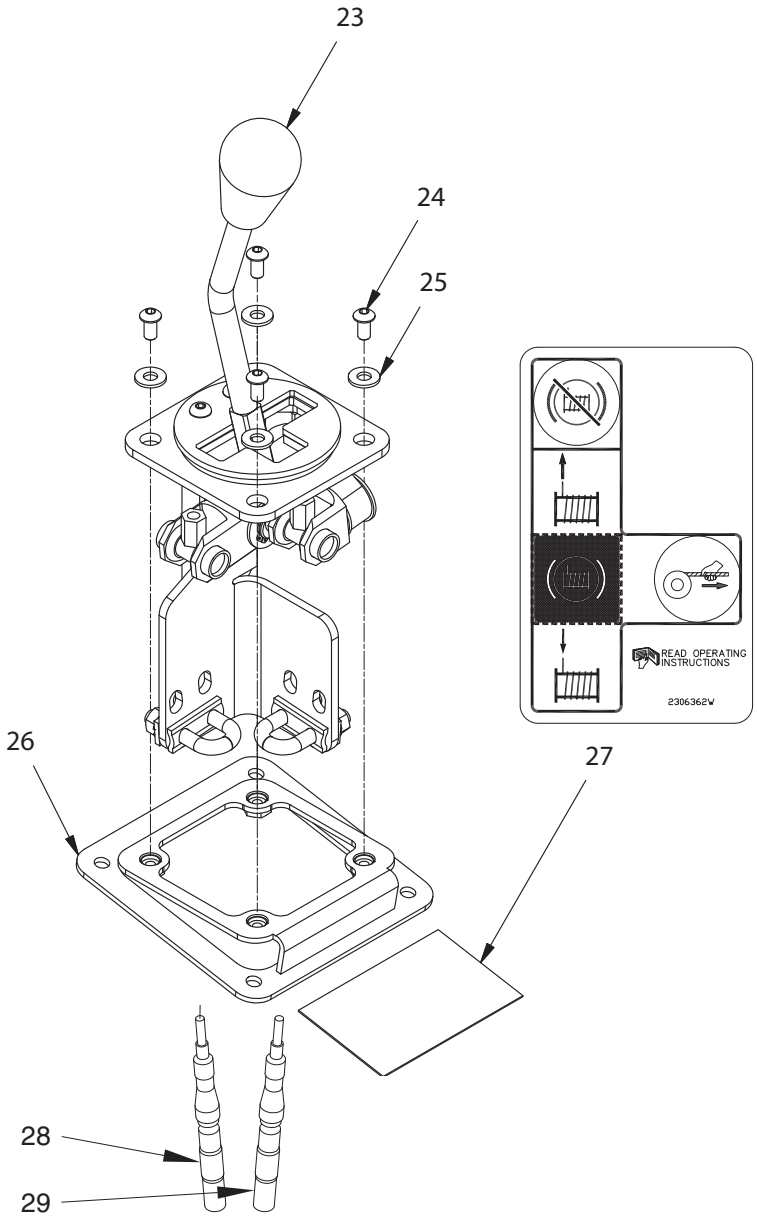


Item		Part No.	Description	Qty
1	*a	1300785W	Assembly, Control Lever (3-92)	1
	*b	2303984W	Assembly, Control Lever (3-93)	1
2	*a	383880W	Assembly, Control Lever - Freespool (3-92)	1
	*b	2303982W	Assembly, Control Lever - Freespool (3-93)	1
3	*a	18528W	Capscrew	3
	*b	2304380W	Capscrew	6
4	*a	191534W	Nut	3
5	*a	18515W	Washer	3
6		271731W	Decal	1
7		303944W	Cable, Control	1
8		303942W	Cable, Freespool	1
9	*a	2300369W	Bracket	1
	*b	2304387W	Bracket	1

*a Last Used on S/N AW6G-1021
*b First Used on S/N AW6G-1022

Handling Gear, Power Controls

Dresser/Dressta TD15E PS (H44), TD15E DD (H45), TD15H PS (H46), TD15H Tier II and TD15M (H47)
with Freespool
First Used on S/N AW6G-1116

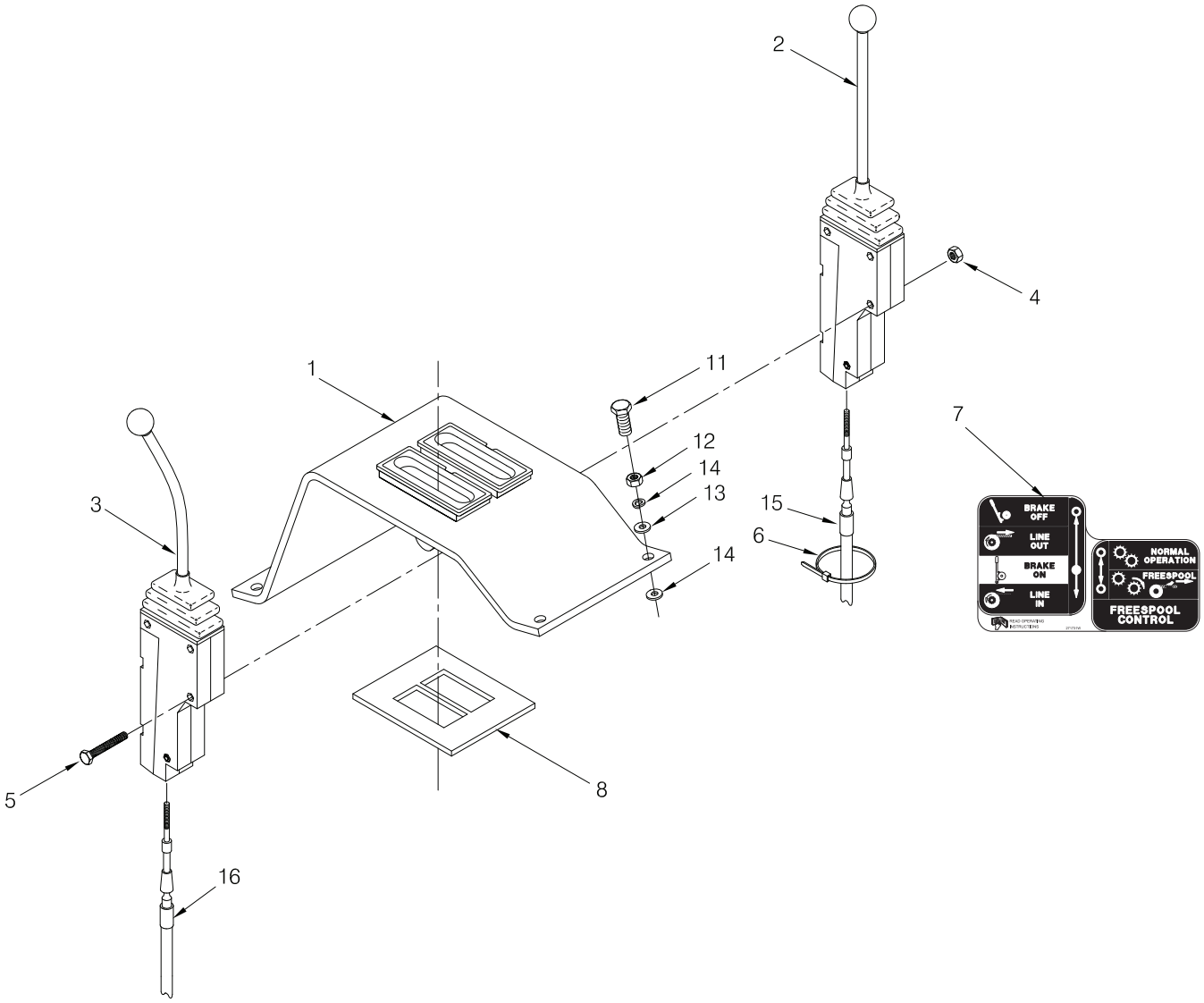


Item		Part No.	Description	Qty
23		2305303W	Assembly, Control Lever (3-95)	1
	*a	2310118	Assembly, Control Lever (3-97)	1
24		Y25G-0408	Capscrew	4
25		15127W	Washer	4
26		2310116	Bracket	1
27		2306362W	Decal	1
28		303944W	Cable, Control	1
29		303942W	Cable, Freespool	1

*a Service all H44, H45, H46 and H47 with 2310118 to replace 2305303W

Handling Gear, Power Controls

Fiat-Hitachi/New Holland DC180 (A49)
with Freespool

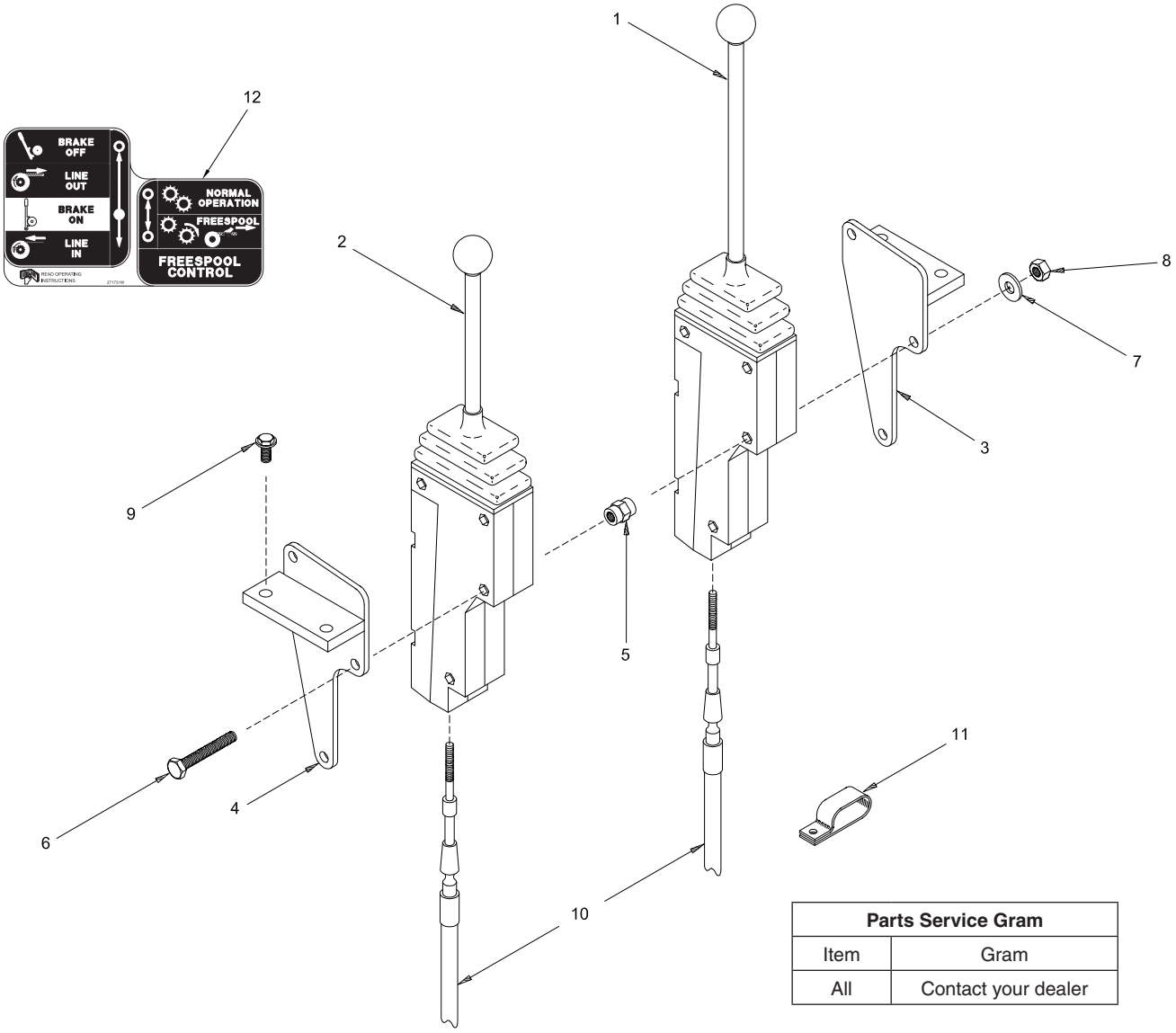


Item	Part No.	Description	Qty
	2304807W	**Assembly, Control Lever**	**1**
1	2304806W	. Bracket, Control Lever	1
2	2303982W	. Assembly, Control Lever (3-93)	1
3	2303986W	. Assembly, Control Lever	
		- Freespool (3-93)	1
4	2304878W	. Capscrew	3
5	15113W	. Nut	3
6	110322W	Clamp	AR
7	271731W	Decal	1

Item	Part No.	Description	Qty
8	2304570W	Gasket	1
10	225871W	Trim (Not shown)	2 Ft
11	18497W	Capscrew	4
12	15055W	Nut	4
13	18515W	Washer	8
14	15155W	Lockwasher	4
15	303945W	Cable, Control	1
16	303945W	Cable, Freespool	1

Handling Gear, Power Controls

Fiat-Hitachi/New Holland FD/FH 14E (A48)
with Freespool
Last Used on S/N AW6G-1021



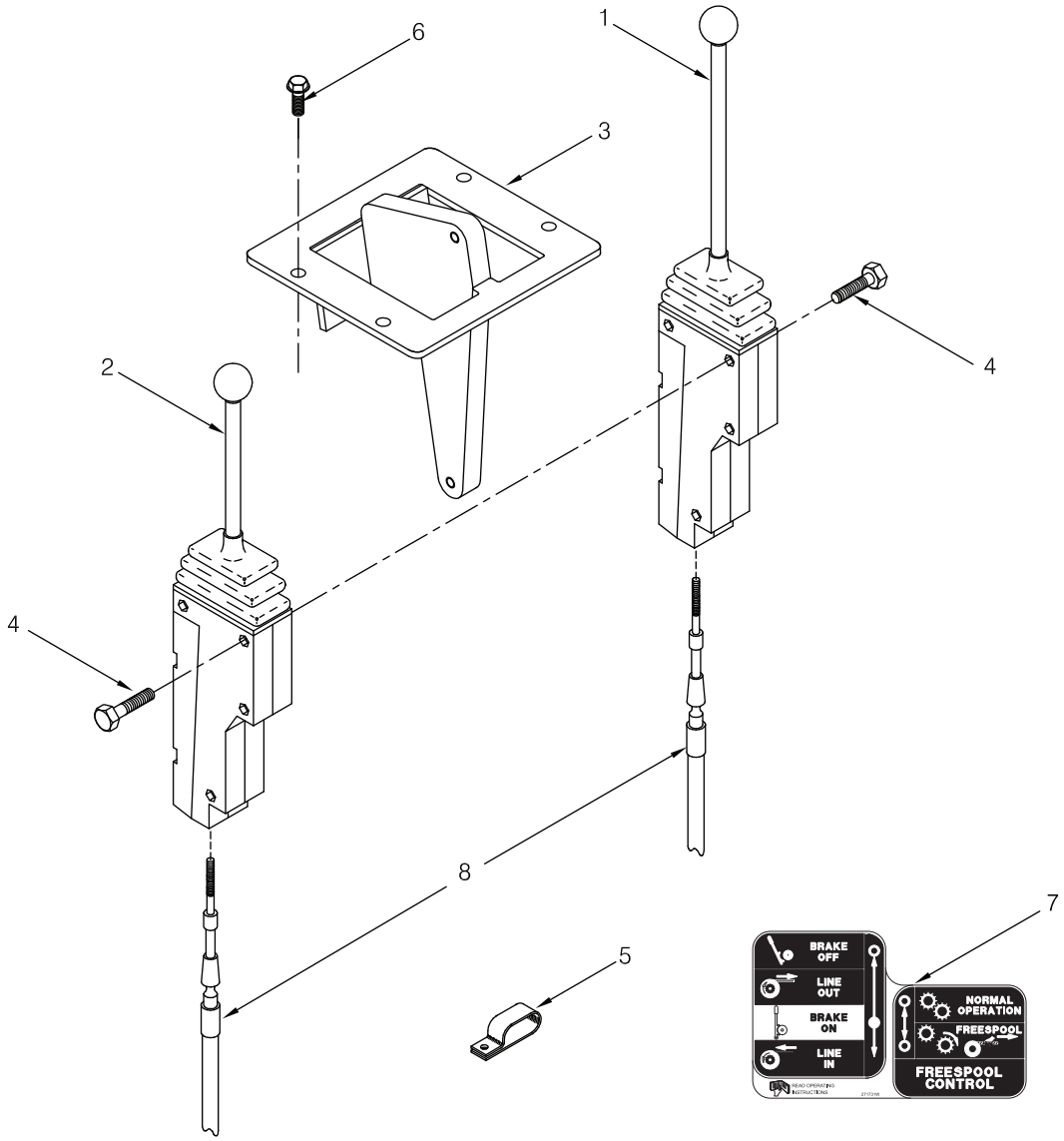
Parts Service Gram	
Item	Gram
All	Contact your dealer

Item	Part No.	Description	Qty
	1321651W	**Assembly, Control Lever**	**1**
1	1300785W	. Assembly, Control Lever (3-92)	1
2	383880W	. Assembly, Control Lever - Freespool (3-92)	1
3	1308437W	. Bracket, RH	1
4	1308436W	. Bracket, LH	1
5	16168W	. Spacer	3
6	18530W	. Capscrew	3

Item	Part No.	Description	Qty
7	15155W	. Washer	3
8	15055W	. Nut	3
9	397161W	Capscrew	4
10	303945W	Cable, Control	2
11	110322W	Clamp	2
12	271731W	Decal	1

Handling Gear, Power Controls

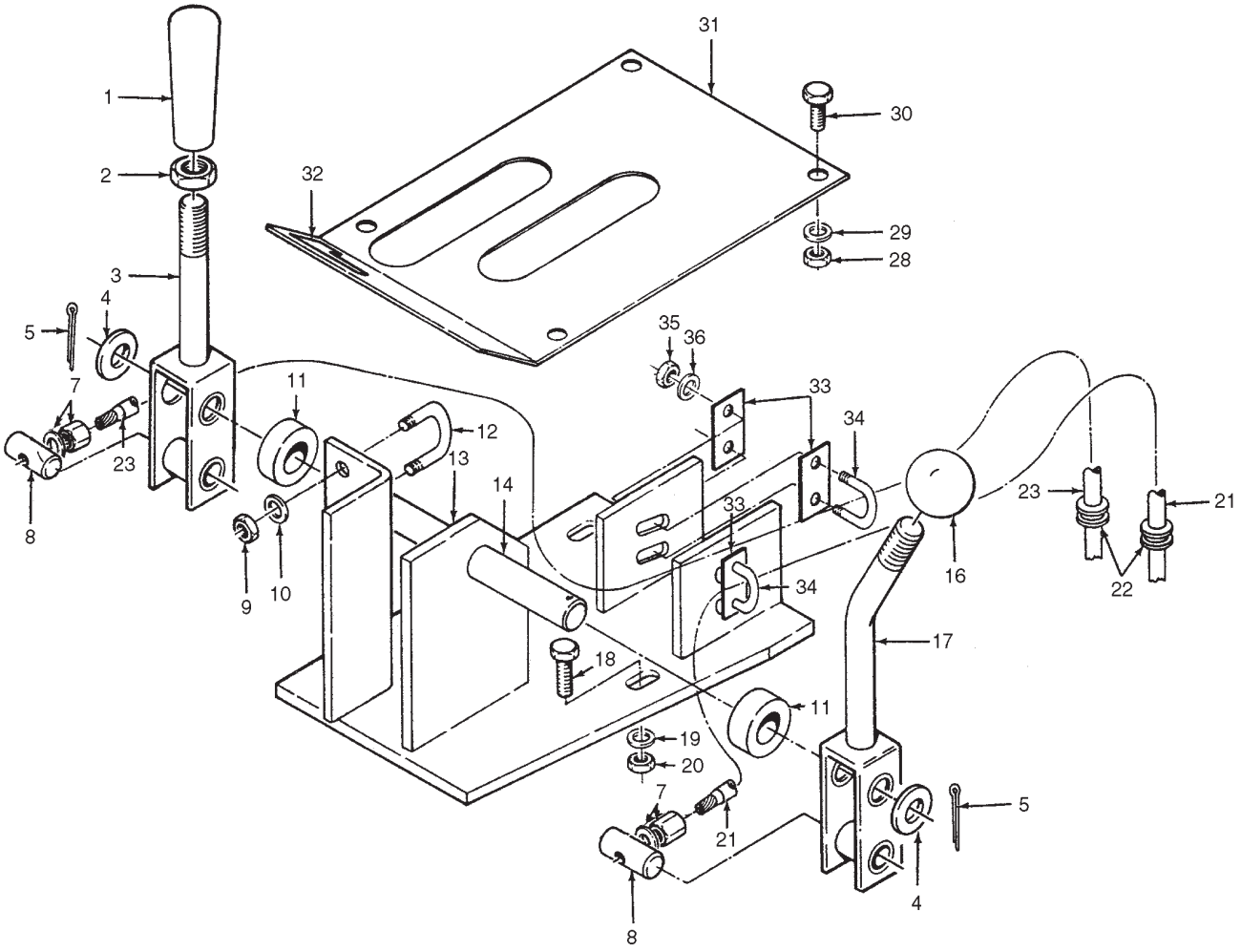
Fiat-Hitachi/New Holland FD/FH 14E, FD 175/195, DX 175/195 (A48)
with Freespool
First Used on S/N AW6G-1022



Item	Part No.	Description	Qty
	2304329W	**Assembly, Control Lever**	**1**
1	2303984W	. Assembly, Control Lever (3-93)	1
2	2303982W	. Assembly, Control Lever - Freespool (3-93)	1
3	2304394W	. Bracket	1
4	2304380W	. Capscrew	6
5	110322W	Clamp	2
6	397161W	Screw, Flanged	4
7	271731W	Decal	1
8	303945W	Cable, Control	2

Handling Gear, Power Controls

John Deere 750, 750B, 850, 850B with Cab (E42, E44)
with Freespool



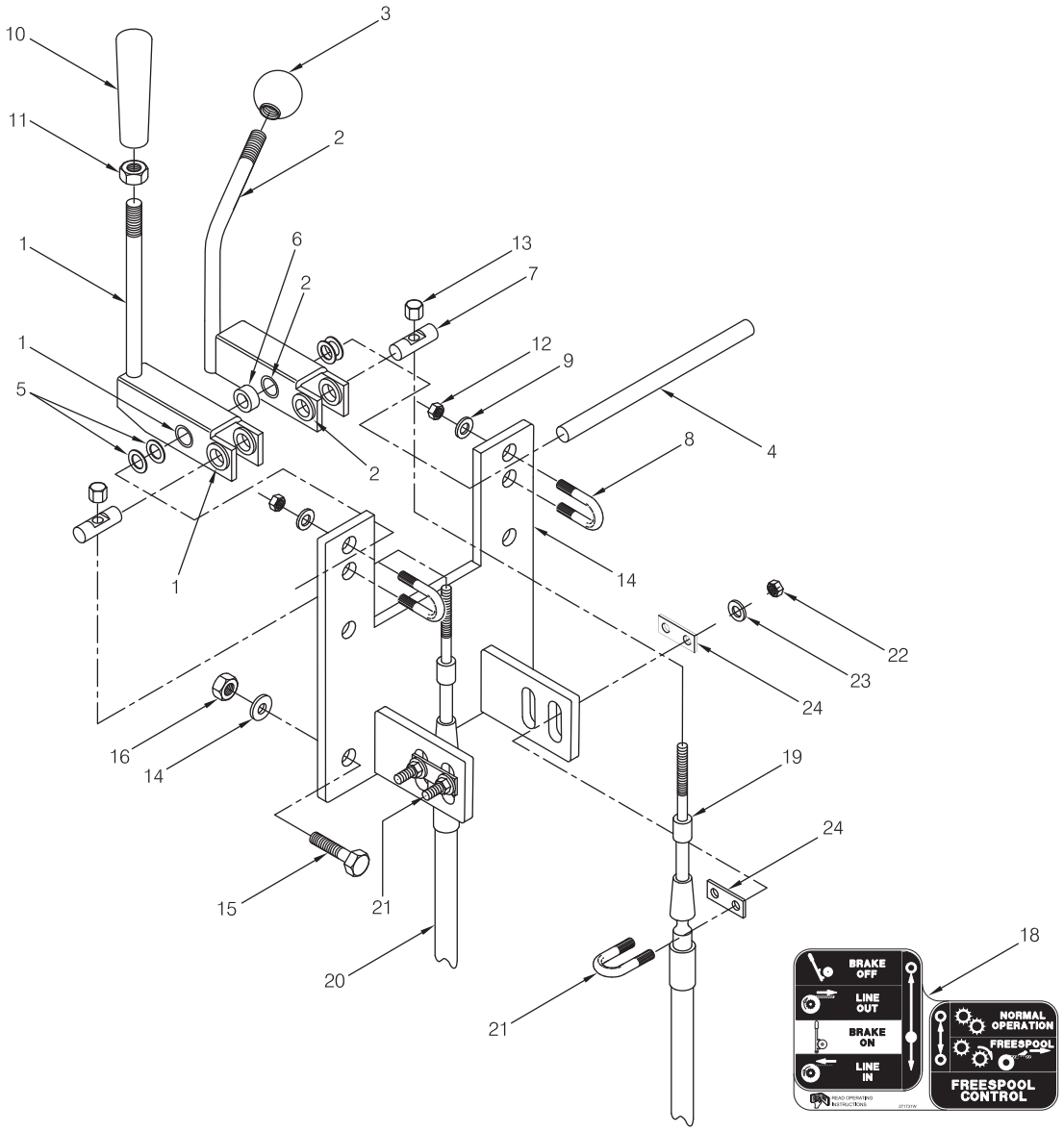
Item	Part No.	Description	Qty
	336855W	**Assembly, Control Lever**	**1**
1	196469W	. Knob	1
2	15030W	. Nut, Jam	1
3	335468W	. Lever	1
	196144W	. . Bushing	2
	276043W	. . Bushing	1
4	15135W	. Washer	2
5	15225W	. Pin, Cotter	2
7	2301487W	. Locknut	2
8	196128W	. Pin	2
9	15055W	. Nut	6
10	15155W	. Lockwasher	6
11	391016W	. Washer	2
12	196129W	. U-Bolt	1
13	336854W	. Bracket	1
14	335470W	. Pin	1
16	243189W	. Knob	1
17	336858W	. Lever	1
	196144W	. . Bushing	2
	276043W	. . Bushing	1

Item		Part No.	Description	Qty
18		18497W	Capscrew	3
19		15155W	Lockwasher	3
20		15055W	Nut	3
21		303942W	Cable, Freespool	1
22		69727W	Grommet	2
23		303944W	Cable, Control	1
28		15054W	Nut	4
29		15154W	Lockwasher	4
30		18460W	Capscrew	4
31		388613W	Cover	1
32		271731W	Decal	1
33	*a	NSS	Spacer	4
34	*a	NSS	U-Bolt	2
35	*a	NSS	Nut	4
36	*a	NSS	Washer	4

*a Included in 2300995W U-Bolt Kit
(Quantity 2 Kits Used in This Installation)

Handling Gear, Power Controls

John Deere 750 750B 850 850B without Cab (E41, E43)
with Freespool

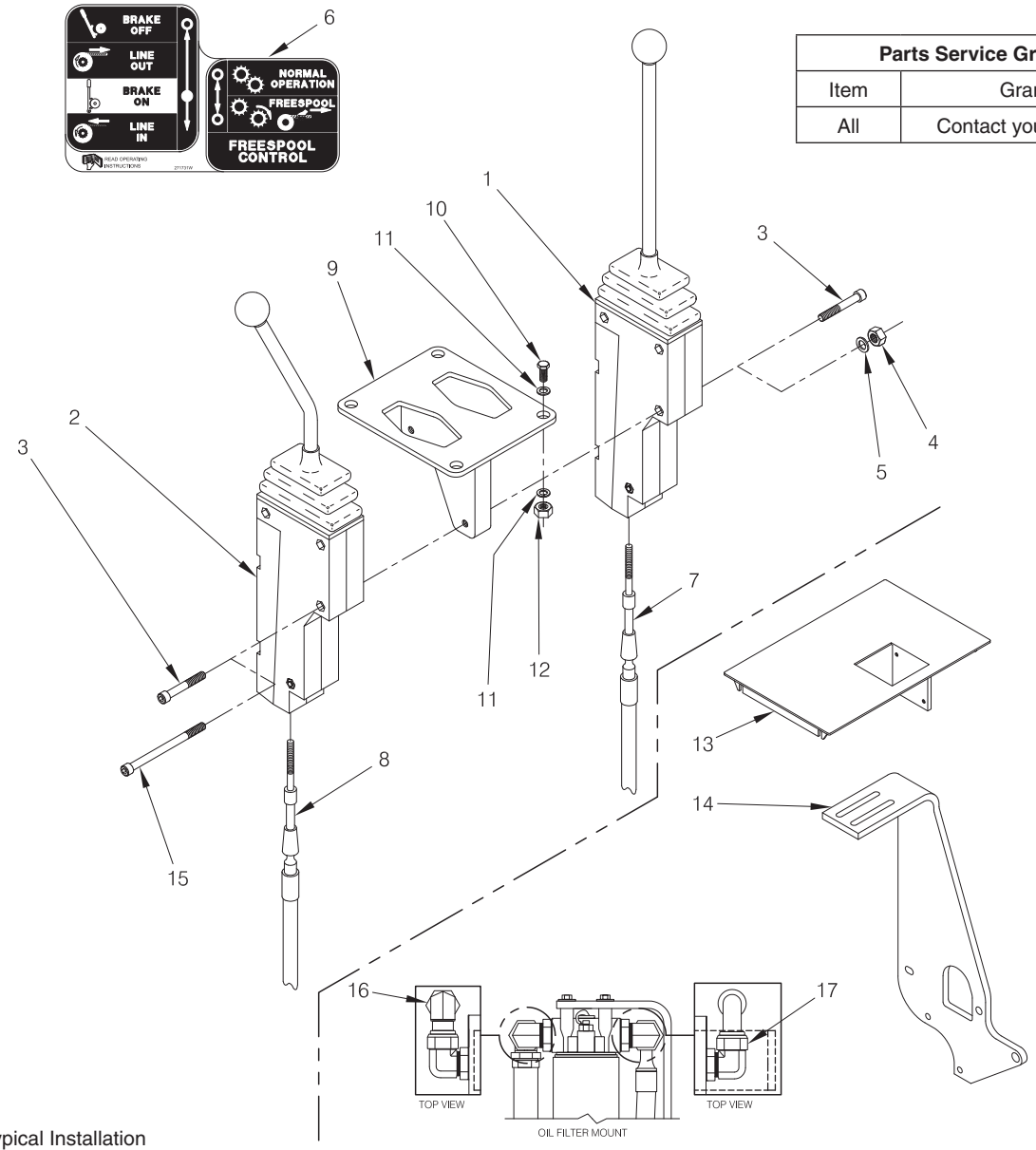


Item	Part No.	Description	Qty
	264052W	**Assembly, Control Lever**	**1**
1	276031W	. Assembly, Lever	1
	196144W	. . Bushing	2
	276043W	. . Bushing	1
2	276032W	. Assembly, Lever	1
	196144W	. . Bushing	2
	276043W	. . Bushing	1
3	243189W	. Knob	1
4	276081W	. Pin	1
5	15135W	. Washer	4
6	77418W	. Spacer	1
7	196128W	. Pin	2
8	196129W	. U-Bolt	2
9	15155W	. Washer	4
10	196469W	. Knob	1
11	15030W	. Nut	1

Item		Part No.	Description	Qty
12		15055W	. Nut	4
13		2301487W	. Nut	2
14		261567W	. Bracket	1
15		16805W	Screw, Flanged	4
16		15056W	Nut	4
17		15156W	Washer	4
18		271731W	Decal	1
19		303938W	Cable, Freespool	1
20		303941W	Cable, Control	1
21	*a	NSS	U-Bolt	2
22	*a	NSS	Nut	2
23	*a	NSS	Washer	2
24	*a	NSS	Spacer	2
	*a	Included in 2300995W U-Bolt Kit (2 Required)		

Handling Gear, Power Controls

John Deere 750C Series I & II (E45), 850C Series I & II (E46)
with Freespool



Parts Service Gram	
Item	Gram
All	Contact your dealer

A - Typical Installation
B - Optional Lunchbox Tray Installation

Item		Part No.	Description	Qty A	Qty B
1	*b	1300785W	Assembly, Control Lever (3-92)	1	1
		2303984W	Assembly, Control Lever (3-93)	1	1
2	*b	2301845W	Assembly, Control Lever - Freespool (3-94)	1	1
		2303986W	Assembly, Control Lever - Freespool (3-93)	1	1
3	*a,*b	18526W	Capscrew	3	3
	*c	2304380W	Capscrew	6	6
4	*b	191534W	Nut	3	3
5	*b	18515W	Washer	3	3
6		271731W	Decal	1	1
7		303945W	Cable, Control	1	1
8		303945W	Cable, Freespool	1	1
9	*b	2301030W	Bracket	1	1
	*c	2304304W	Bracket	1	1

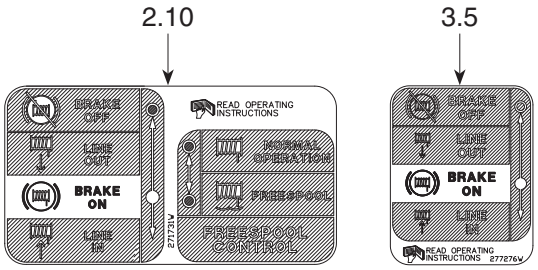
Item		Part No.	Description	Qty A	Qty B
10	*a	16828W	Capscrew	4	4
11		15134W	Washer	8	8
12		221707W	Nut	4	4
13	*b	2301834W	Bracket, Control Lever	--	1
13	*c	2304508W	Bracket, Control Lever	--	1
14		2303040W	Bracket, Filter	--	1
15	*c	2304381W	Capscrew	--	3
16		R833276W	Fitting	--	1
17		R833806W	Fitting	--	1

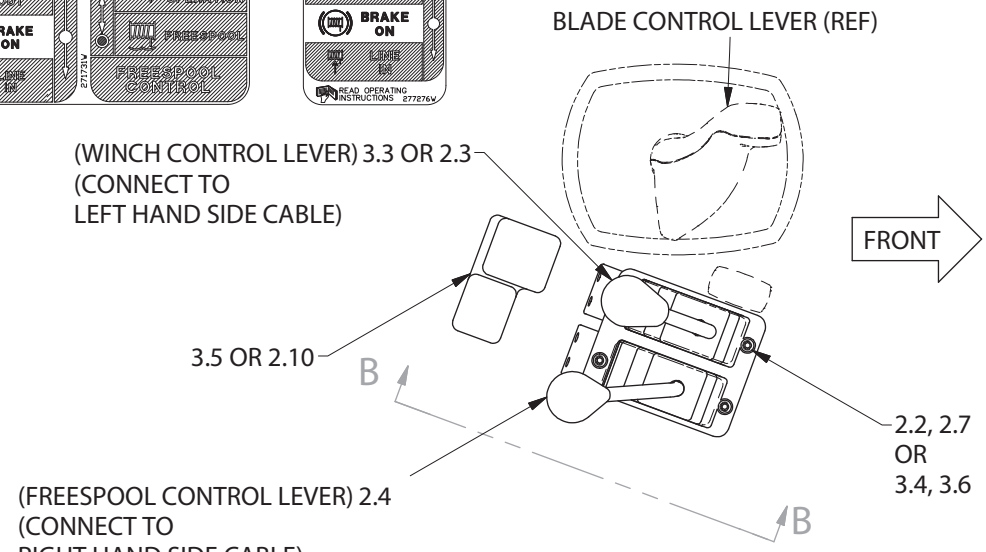
*a Use 318702W Thread Lock
*b Last Used on S/N AW6G-1021
*c First Used on S/N AW6G-1022

Handling Gear, Power Controls

John Deere 850K (E460)

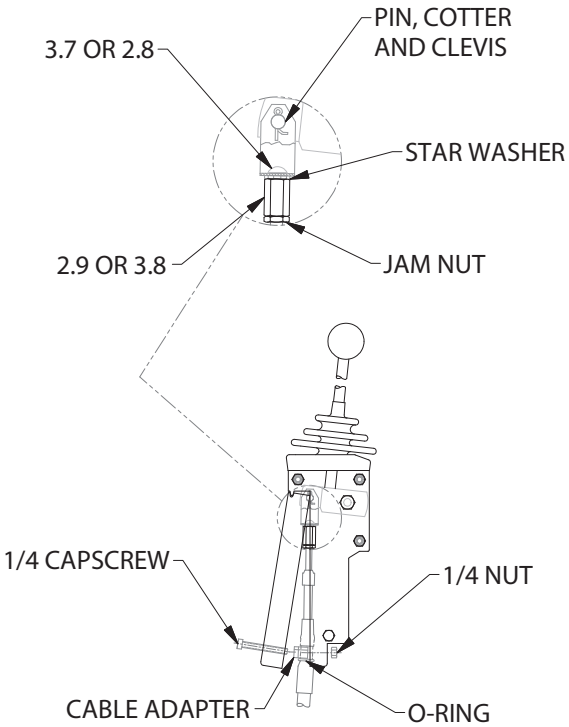
Page 1 of 2



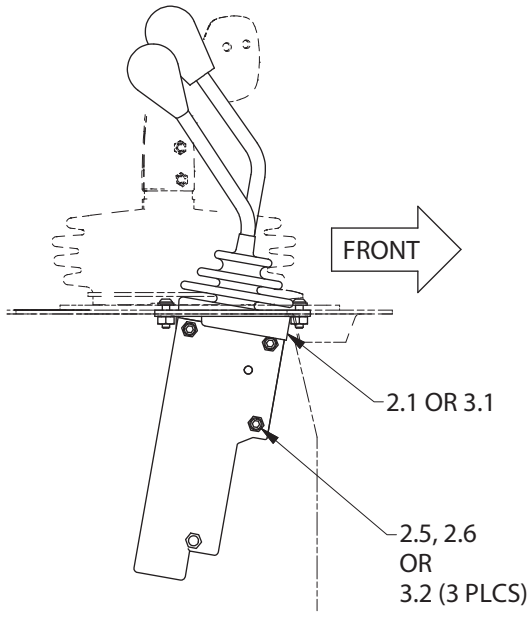


RIGHT CONSOLE
TOP VIEW

Parts Service Gram	
Item	Gram
All	A3-C-7 R3 (See Section 7)



CABLE INSTALLATION



VIEW B-B
CONTROL LEVER INSTALLATION

Handling Gear, Power Controls

John Deere 850K (E460)

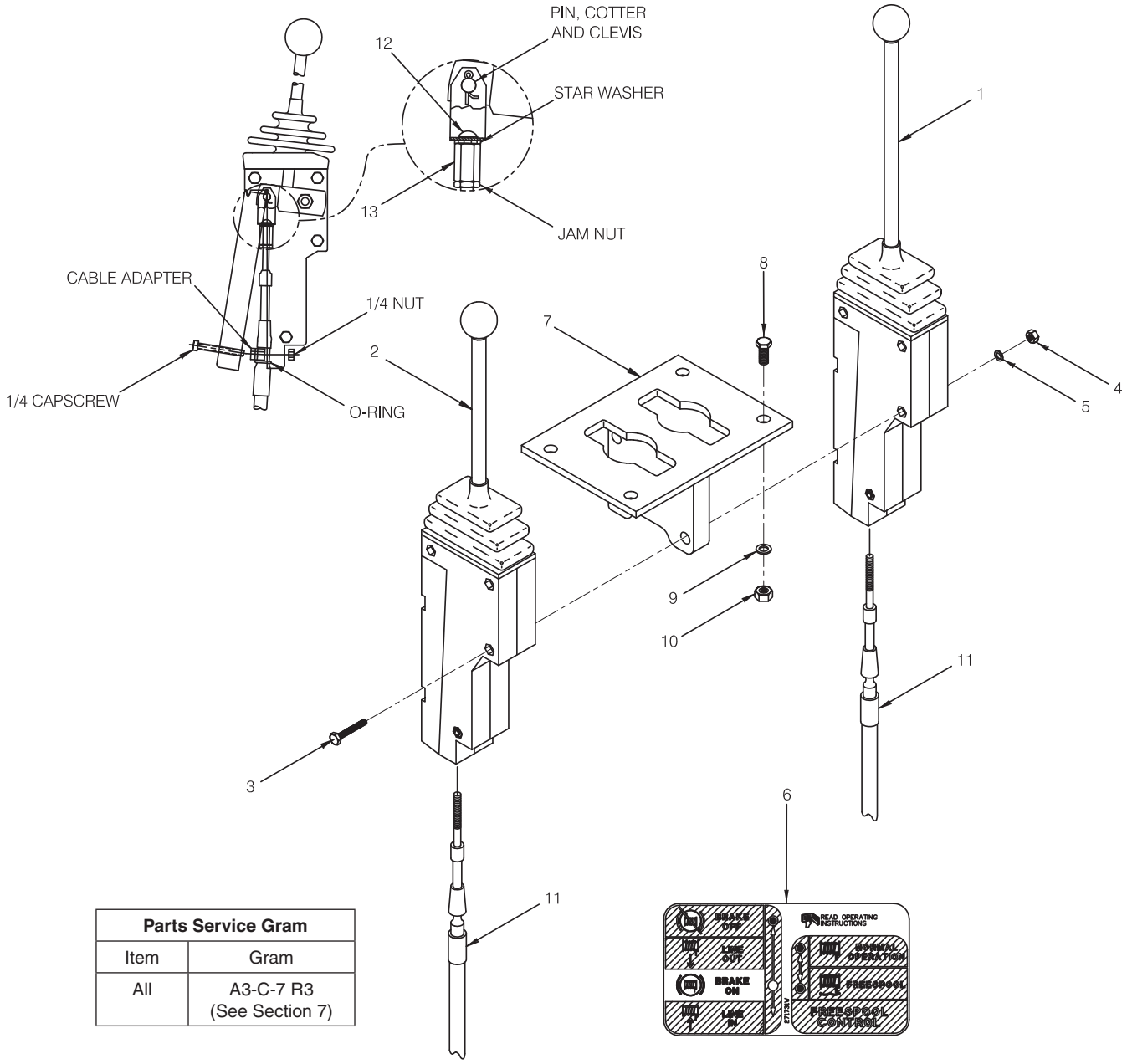
A - With Freespool
B - Without Freespool

Item	Part No.	Description	Qty A	Qty B
2.1	2313329	Bracket, Control Lever	1	--
2.2	296160W	Capscrew	4	--
2.3	2304820W	Assembly, Control Lever (3-93)	1	--
2.4	2313339	Assembly, Control Lever (3-93)	1	--
2.5	2313340	Capscrew	3	--
2.6	302399W	Nut	3	--
2.7	296417W	Washer	4	--
2.8	18717W	Capscrew	2	--
2.9	383881W	Nut, Tall	2	--
2.10	271731W	Decal	1	--

Item	Part No.	Description	Qty A	Qty B
3.1	2314428	Bracket, Control Lever	--	1
3.2	2304380W	Capscrew	--	3
3.3	2304820W	Assembly, Control Lever (3-93)	--	1
3.4	296160W	Capscrew	--	4
3.5	277276W	Decal	--	1
3.6	296417W	Washer	--	4
3.7	18717W	Capscrew	--	1
3.8	383881	Nut, Tall	--	1

Handling Gear, Power Controls

Komatsu D61EX-12, D61EX-15 (K47)
D65EX-12, D65EX-15 (K46)
with Freespool
Page 1 of 2



Parts Service Gram	
Item	Gram
All	A3-C-7 R3 (See Section 7)

Handling Gear, Power Controls

Komatsu D61EX-12, D61EX-15 (K47)
D65EX-12, D65EX-15 (K46)
with Freespool
Page 2 of 2

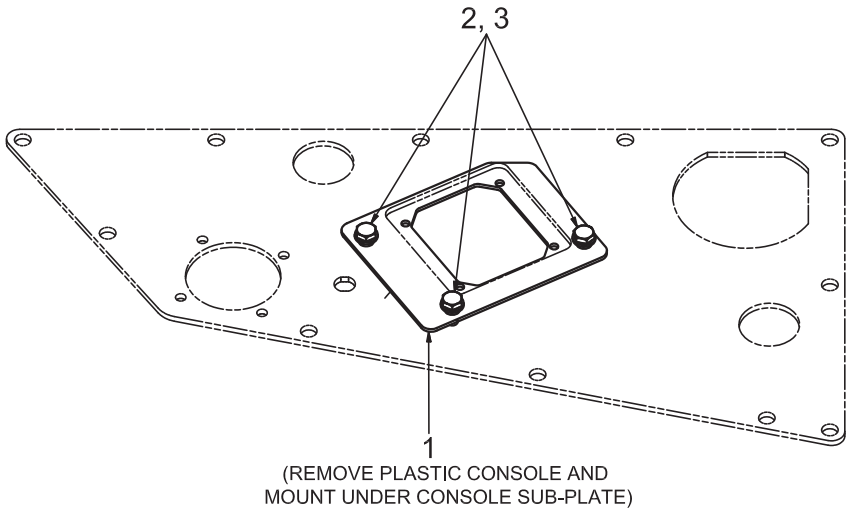
Item		Part No.	Description	Qty
1	*a	1300785W	Assembly, Control Lever (3-92)	1
	*b	2303984W	Assembly, Control Lever (3-93)	1
2	*a	383880W	Assembly, Control Lever - Freespool (3-92)	1
	*b	2303982W	Assembly, Control Lever - Freespool (3-93)	1
3	*a	2301054W	Capscrew	3
	*b	2304380W	Capscrew	6
4	*a	221703W	Nut	3
5	*a	15127W	Washer	3
6		271731W	Decal	1
7	*a	2301030W	Bracket	1
	*b	2304304W	Bracket	1
8		16805W	Capscrew	4
9		15134W	Washer	8
10		221707W	Nut	4
11		303944W	Cable, Control	2
12		18717W	Capscrew	2
13		383881W	Nut, Tall	2

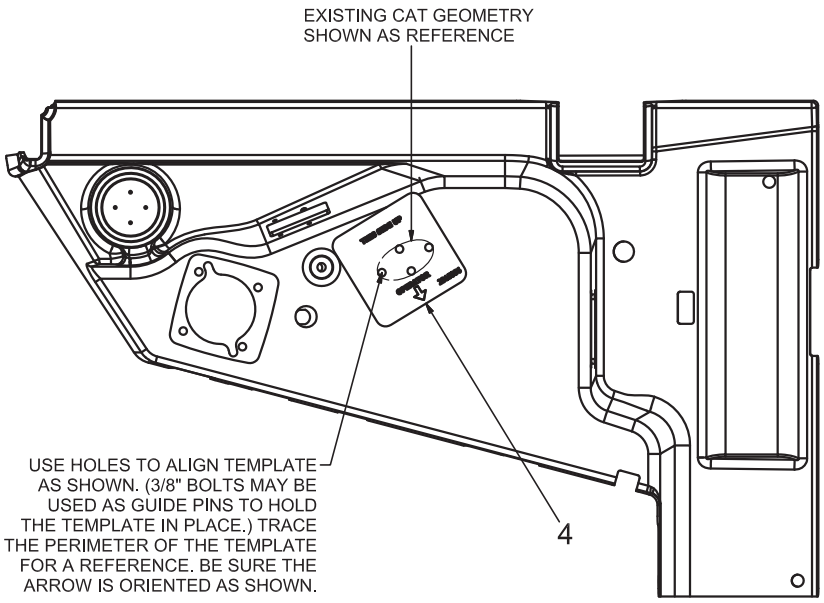
*a Last Used on S/N AW6G-1021
*b First Used on S/N AW6G-1022

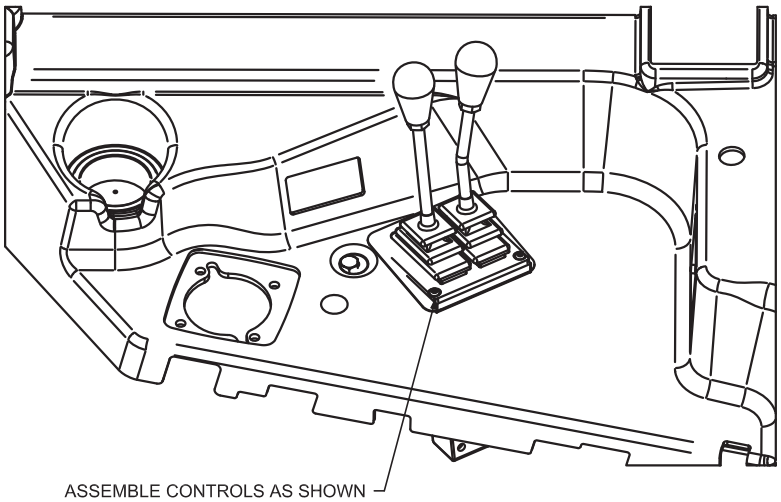
Control Lever Conversion Kit, Power Controls

Caterpillar D6T (Tier III to Tier 4i)

Page 1 of 2





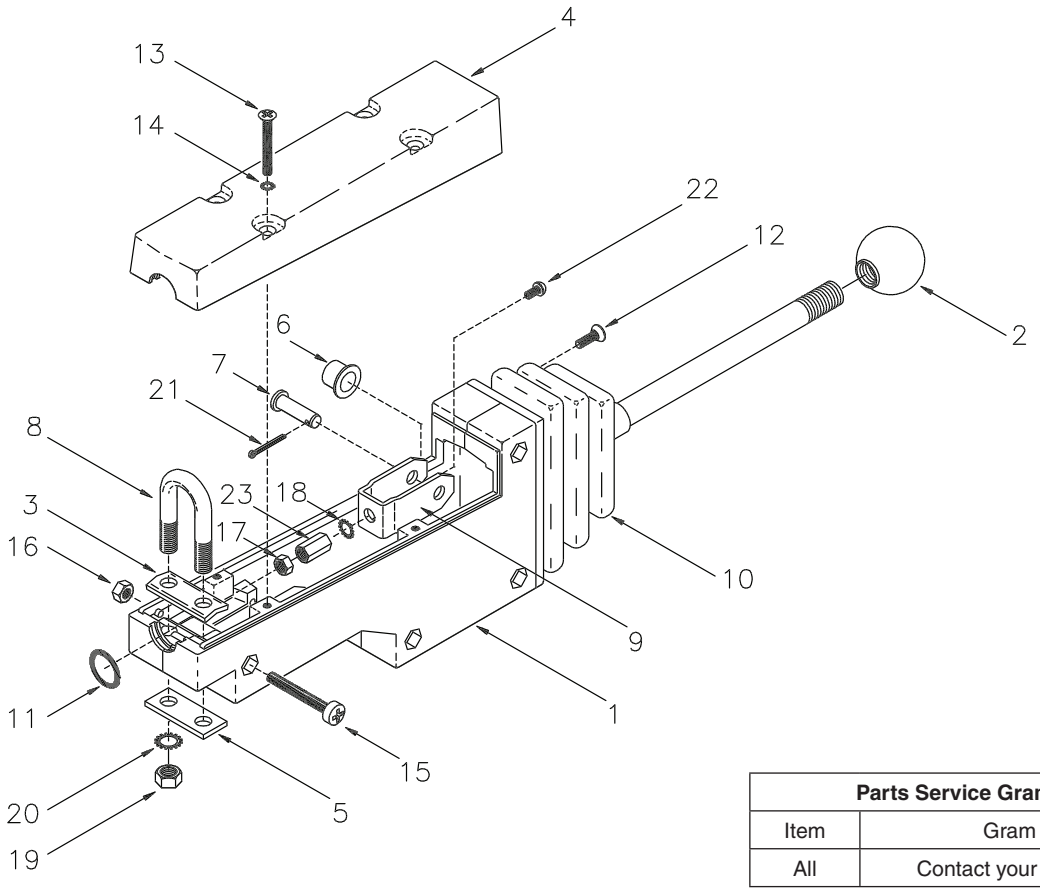


Control Lever Conversion Kit, Power Controls

Caterpillar D6T (Tier III to Tier 4i)

Item	Part No.	Description	Qty
	2314976	**Kit, D6T Tire 4i Control Lever Parts**	**1**
	2314977	. Drawing, Installation (Not Shown)	1
1	2313956	. Mounting, Control Lever	1
2	296420W	. Washer	3
3	293628W	. Capscrew	3
4	2315356	. Template, Console	1

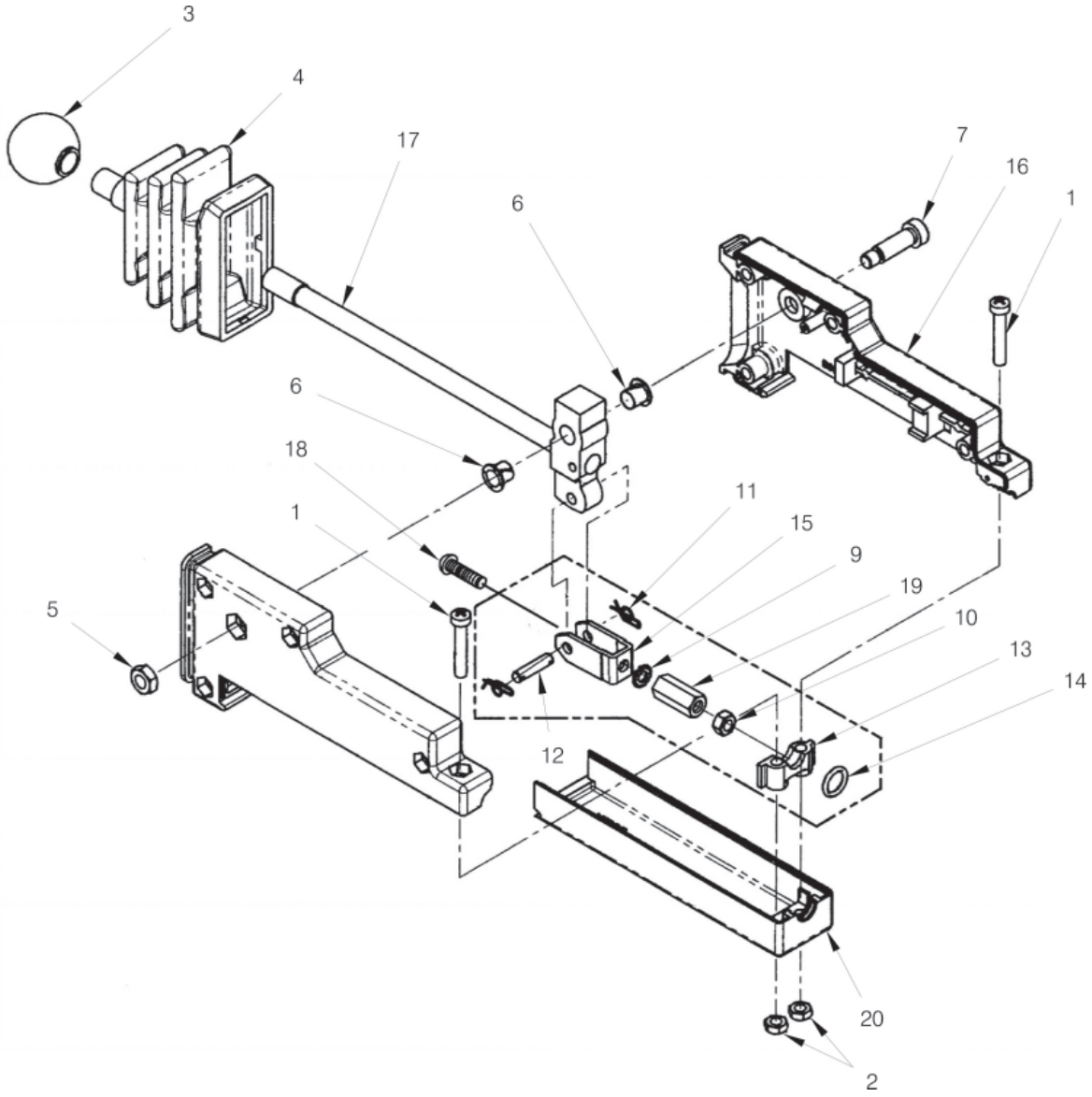
Control Lever, Power Controls



Parts Service Gram	
Item	Gram
All	Contact your dealer

Item	Part No.	Description	Qty
	1300785W	**Assembly, Control Lever**	**1**
	2301785W	**Assembly, Control Lever - Freespool**	**1**
	383880W	**Assembly, Control Lever - Freespool**	**1**
1	NSS	. Housing	1
2	1302049W	. Knob	1
3	1302048W	. Clamp, Cable	1
4	1302047W	. Cover	1
5	1302046W	. Clamp, Base	1
6	1302045W	. Bearing	2
7	1302044W	. Pin, Clevis	1
8	1302043W	. U-Bolt	1
9	1302042W	. Clevis	1
10	1302041W	. Boot	1
11	1302040W	. O-Ring	1
12	1306003W	. Screw	4
13	1306002W	. Screw	4
14	221867W	. Lockwasher, Star	4
15	1306001W	. Screw	1
16	15024W	. Nut	1
17	15004W	. Nut	1
18	15923W	. Washer	1
19	15005W	. Nut	2
20	15932W	. Lockwasher	2
21	1302039W	. Pin, Cotter	1
22	18717W	Capscrew, Button Head	1
23	383881W	Nut, Tall	1

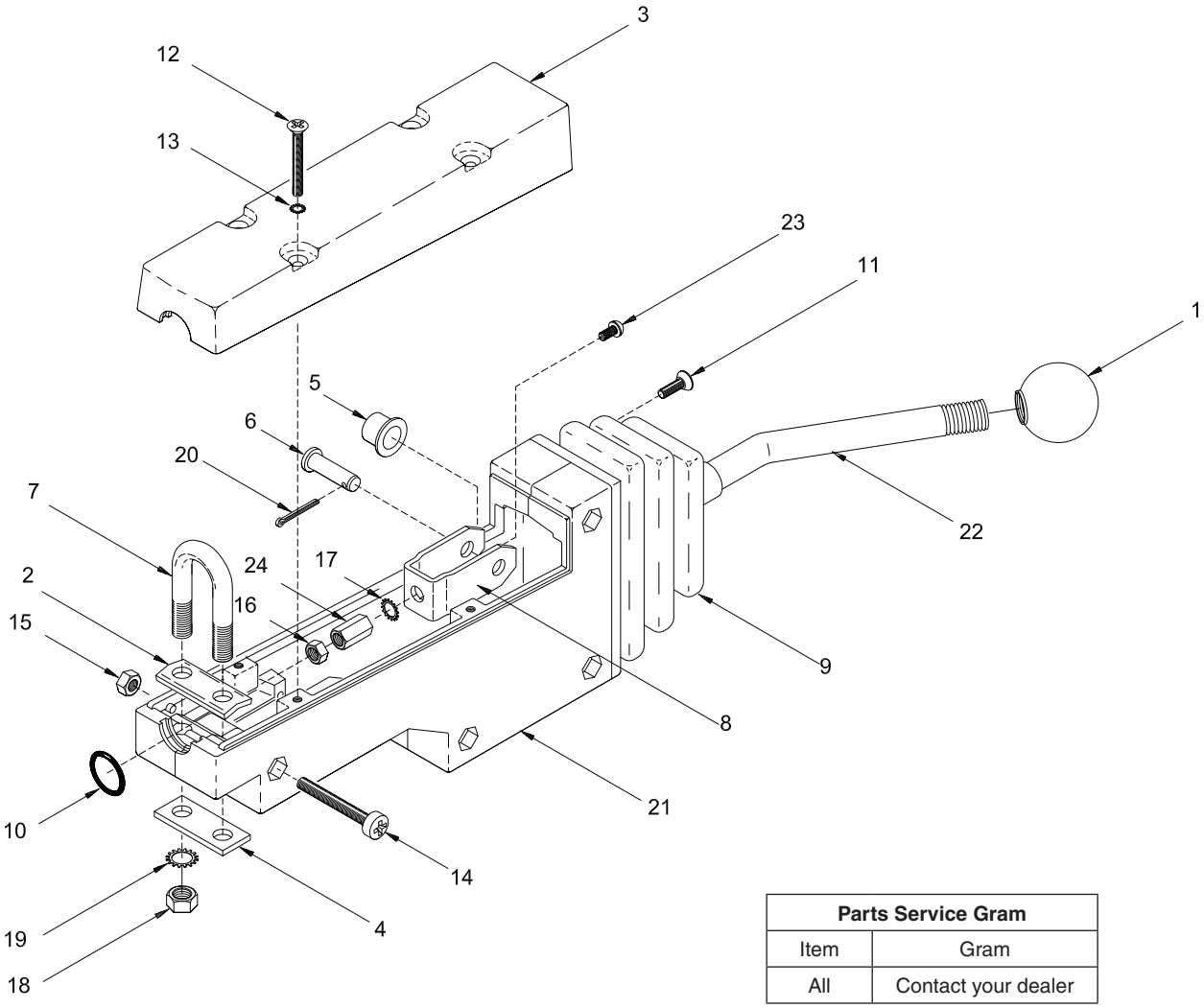
Control Lever, Power Controls



Item		Part No.	Description	Qty
		2303982W	**Assembly, Control Lever**	**1**
		2303984W	**Assembly, Control Lever**	**1**
		2303986W	**Assembly, Control Lever**	**1**
		2304330W	**Assembly, Control Lever**	**1**
		2304557W	**Assembly, Control Lever**	**1**
		2304820W	**Assembly, Control Lever**	**1**
		2305202W	**Assembly, Control Lever**	**1**
		2305978W	**Assembly, Control Lever**	**1**
		2305979W	**Assembly, Control Lever**	**1**
		2306703W	**Assembly, Control Lever**	**1**
		2306704W	**Assembly, Control Lever**	**1**
		2313339	**Assembly, Control Lever**	**1**
1	*a	--------	. Screw	2
2	*a	--------	. Nut	2
3		2304339W	. Knob	1
4		2304340W	. Boot	1
5		2304341W	. Nut, Jam	1
6		2304342W	. Bearing, Plastic	2
7		2304343W	. Screw, Shoulder	1
9	*b	--------	. Washer, Star	1
10	*b	--------	. Nut	1
11	*b	--------	. Pin, Cotter	2
12	*b	--------	. Pin	1
13	*b	--------	. Adapter, Cable	1
14	*b	--------	. O-Ring	1
15	*b	--------	. Clevis	1
16		NSS	. Cover	1
17		NSS	. Lever	1
18	*c	18717W	Capscrew, Button-Head	1
19		383881W	Nut, Tall	1
20		2304604W	Cover	1

*a Included in 2304338W Hardware Kit
*b Included in 2305023W Cable Attaching Hardware Kit
*c Use 318702W Thread Lock

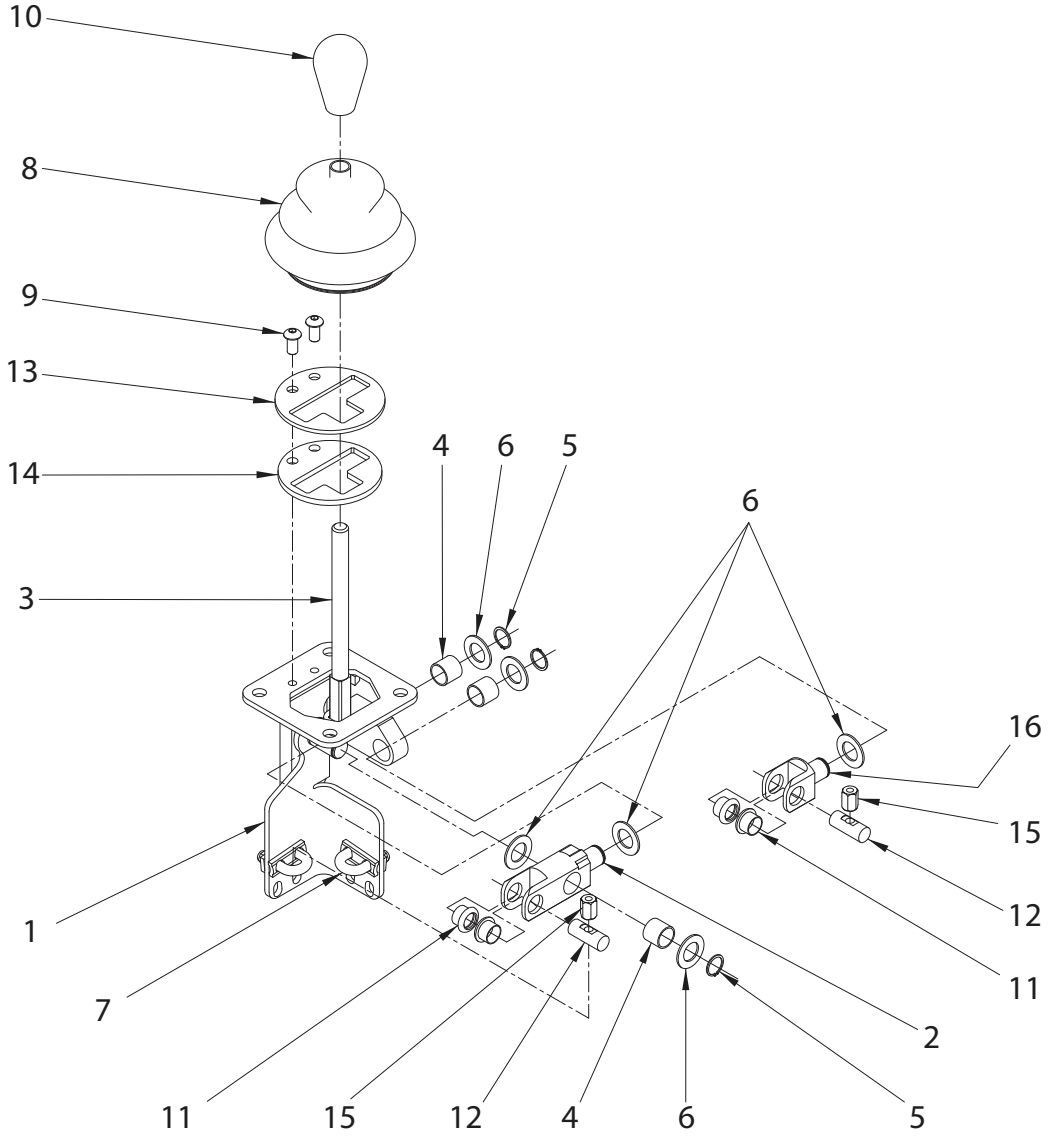
Control Lever, Power Controls



Parts Service Gram	
Item	Gram
All	Contact your dealer

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

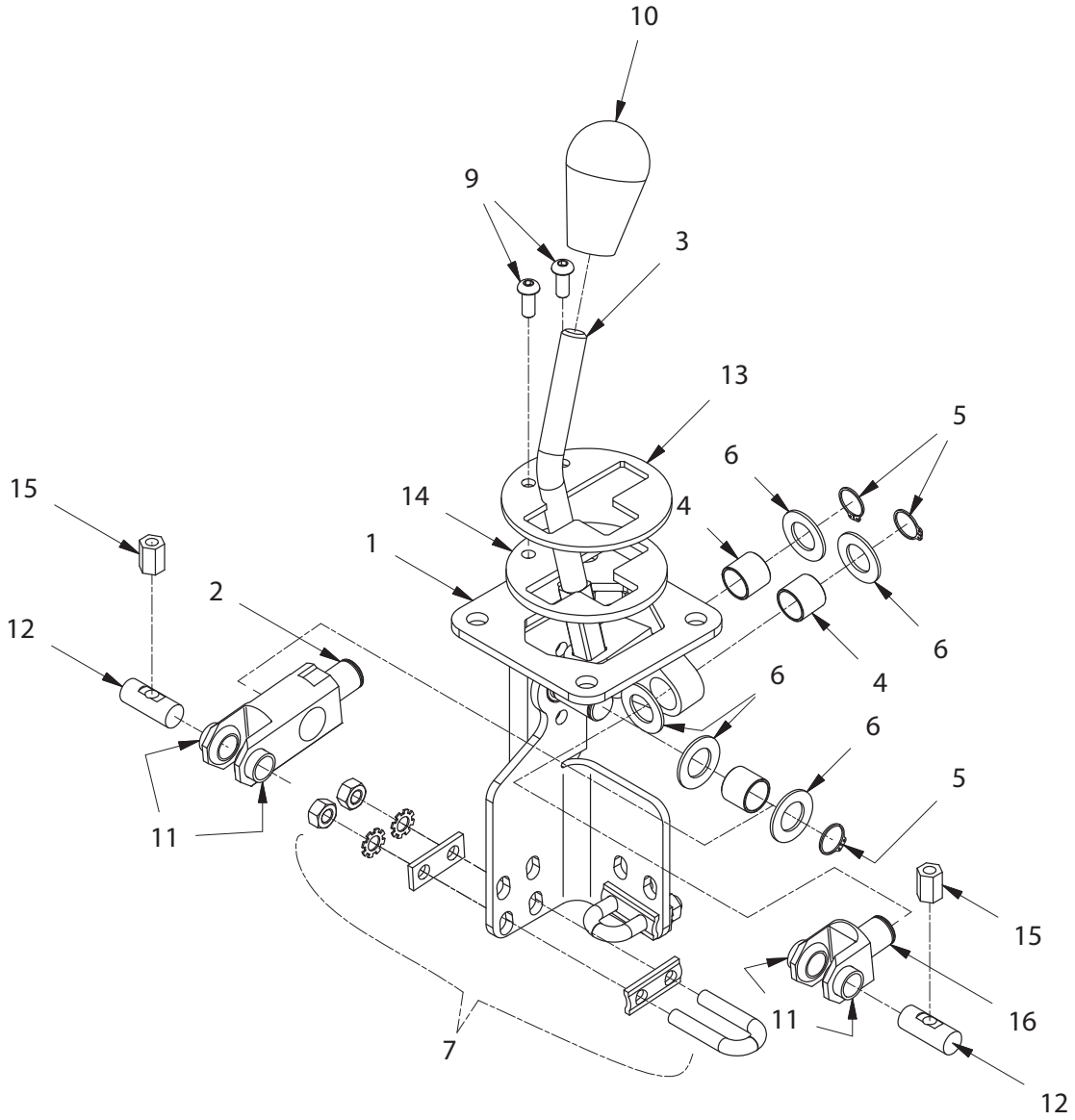
Control Lever, Power Controls



Item	Part No.	Description	Qty
	2305303W	**Assembly, Control Lever**	**1**
1	2312189	. Bracket, Vertical Control Lever	1
2	2305296W	. Pivot, Main	1
3	2305297W	. Bracket, Pivot	1
4	2305302W	. Bushing	3
5	58903W	. Ring, Snap	3
6	2301634W	. Washer, Thrust	6
7	2300995W	. Clamp Kit, U-Bolt	2
8	228131	. Boot	1
9	Y25G-0410	. Capscrew	2
10	2304339W	. Knob	1
11 *a	2307974W	. Bushing	4
12	196128W	. Pin	2
13	2312188	. Plate, Gate	1
14	2312232	. Plate, Spacer	1
15	2301487W	. Nut, Tall	2
16	2305301W	. Pivot, Aux	1

*a Use 257291W Adhesive

Control Lever, Power Controls

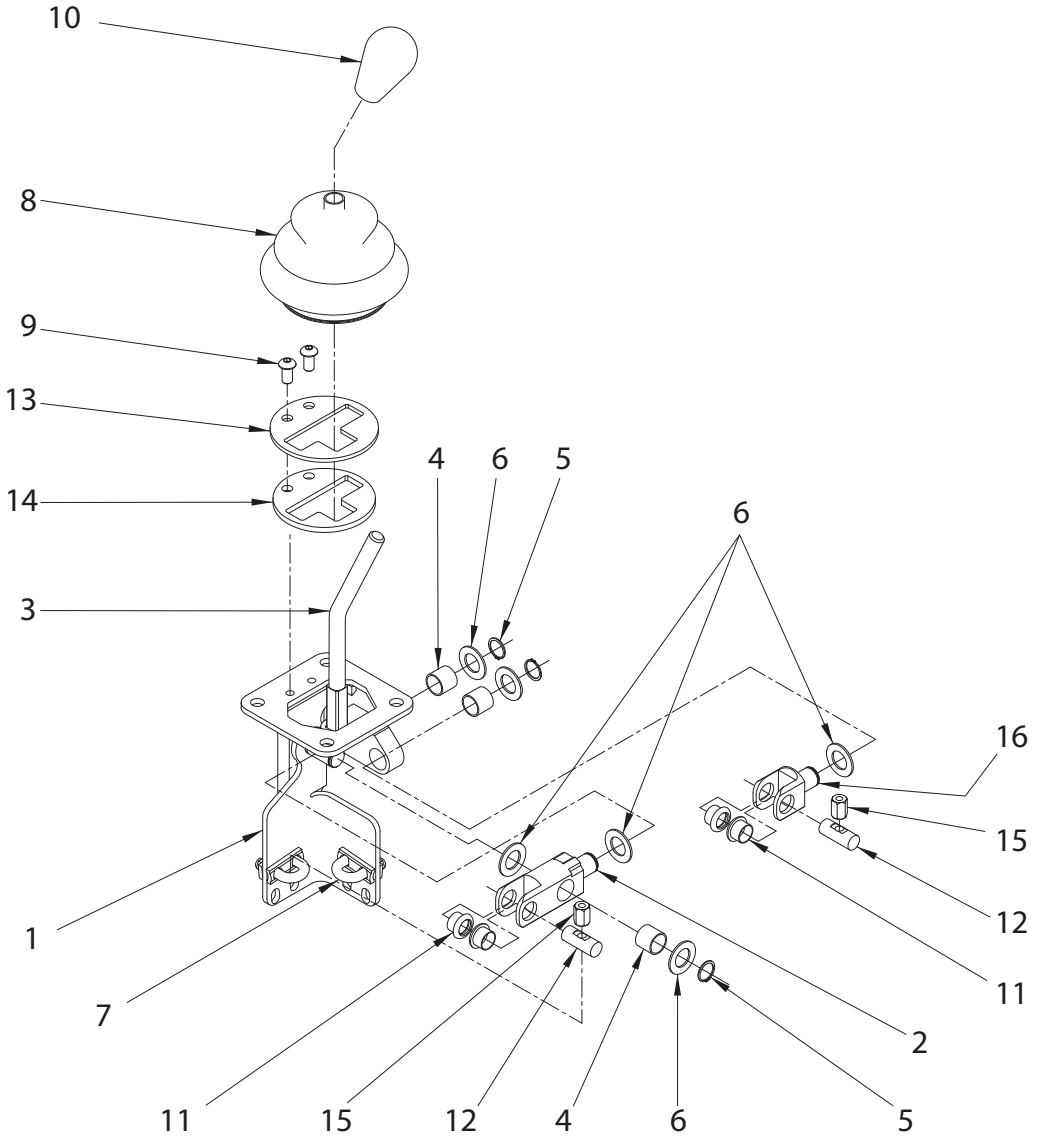


Item	Part No.	Description	Qty
	2310105	**Assembly, Control Lever**	**1**
1	2312189	. Bracket, Vertical	1
2	2305296W	. Pivot, Main	1
3	2310106	. Bracket, Pivot	1
4	2305302W	. Bushing	3
5	58903W	. Ring, Snap	3
6	2301634W	. Washer, Thrust	6
7	2300995W	. Kit, U-Bolt Clamp	2
	NSS	. . U-Bolt	1
	NSS	. . Plate, Cup	1
	NSS	. . Plate	1
	NSS	. . Washer, Star	2
	NSS	. . Nut	2

Item		Part No.	Description	Qty
8		228131	. Boot (Not Shown)	1
9		Y25G-0410	. Capscrew	2
10		2304339W	. Knob	1
11	*a	2307974W	. Bushing	4
12		196128W	. Pin	2
13		2312188	. Plate, Gate	1
14		2312232	. Plate, Spacer	1
15		2301487	. Nut, Tall	2
16		2305301W	. Pivot, Aux.	1

*a Use 257291W Adhesive in Two Places for Retention

Control Lever, Power Controls

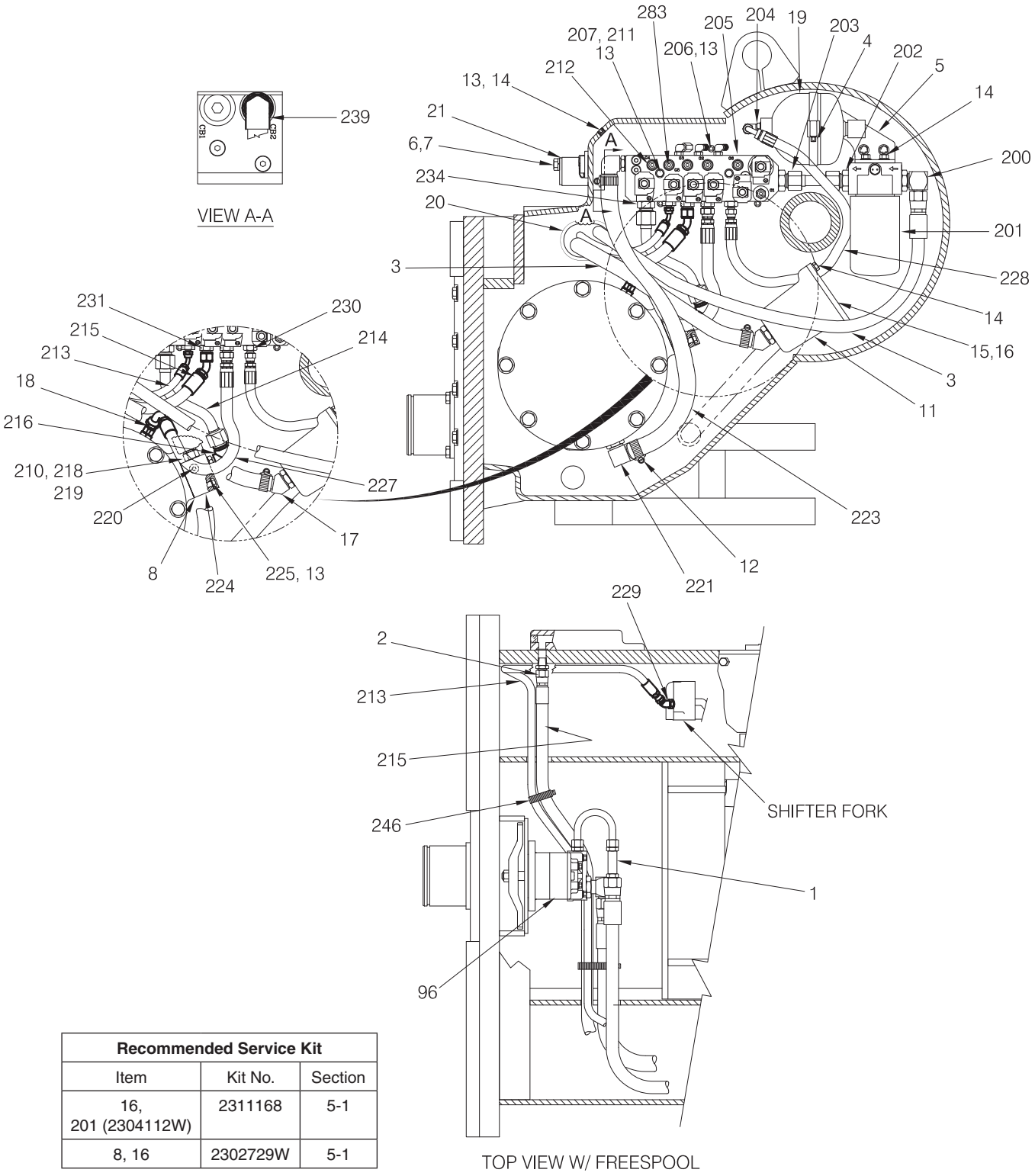


Item	Part No.	Description	Qty
	2310118	**Assembly, Control Lever**	**1**
1	2312189	. Bracket, Vertical Control Lever	1
2	2305296W	. Pivot, Main	1
3	2310117	. Bracket, Pivot	1
4	2305302W	. Bushing	3
5	58903W	. Ring, Snap	3
6	2301634W	. Washer, Thrust	6
7	2300995W	. Clamp Kit, U-Bolt	2
8	228131	. Boot	1
9	Y25G-0410	. Capscrew	2

Item		Part No.	Description	Qty
10		2304339W	. Knob	1
11	*a	2307974W	. Bushing	4
12		196128W	. Pin	2
13		2312188	. Plate, Gate	1
14		2312232	. Plate, Spacer	1
15		2301487W	. Nut, Tall	2
16		2305301W	. Pivot, Aux	1
	*a	Use 257291W Adhesive		

Hydraulic Group, Electronic Controls

All Except Komatsu D65EX-12/15 (K46), D61EX-12/15 (K47) & Case Quadtrac (R39)
Last Used on S/N AW6G-1287
(Except S/N AW6G-1271)
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
16, 201 (2304112W)	2311168	5-1
8, 16	2302729W	5-1

FREESPOOL CONFIGURATION SHOWN

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

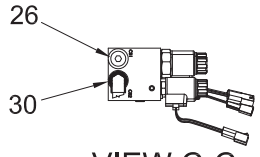
All Except Komatsu D65EX-12/15 (K46), D61EX-12/15 (K47) & Case Quadtrac (R39)
Last Used on S/N AW6G-1287
(Except S/N AW6G-1271)
Page 2 of 2

Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
11		219172W	Strainer	1
12		209639W	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	8
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
19		R16271	Accumulator	1
20		24257	Trim	AR
21		303946W	Gasket	1
85		2300760W	Assembly, Hose	1
96		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
200		138811W	Fitting	1
201		2304111W	Assembly, Filter	1
		2304112W	. Element, Filter	1
		2304862W	. Switch, Pressure	1
		2305132W	. Head, Filter	1
202		16543W	Fitting	2
203		2305113W	Assembly, Tube - Inlet	1
204		110174W	Fitting	1
205		2303889W	Assembly, Valve Manifold (3-137)	1
206		2305987W	Setscrew	3
207		18524W	Capscrew	2
210		2304845W	Washer, Tab	1
211		18515W	Washer	2
212		2304825W	Fitting	5
213		2305560W	Assembly, Hose	1
214		2305481W	Assembly, Tube	1
215		2305559W	Assembly, Hose	1
216		111331W	Fitting	1
218		R15005	Coil, 24V	1
219		2305260W	Valve	1
220		222443W	Fitting	1
221		2305561W	Fitting	1
223		2305558W	Assembly, Hose	1
224		2305056W	Dump, Valve Manifold	1
225		16379W	Capscrew	2
227		2303739W	Assembly, Hose	1
228		2305407W	Assembly, Hose	1
229		16565W	Fitting	1
230		16745W	Fitting	1
231		16541W	Fitting	2
234		142682W	Fitting	1
239		181957W	Fitting	1
246		129563W	Clamp, Strap	1
283	*b	2304825W	Fitting	1
283		222442W	Fitting	1

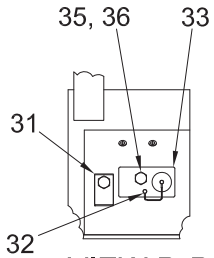
*a Use 273338W Pipe Thread Sealant
*b Used on Winches With Freespool

Hydraulic Group, Electronic Controls

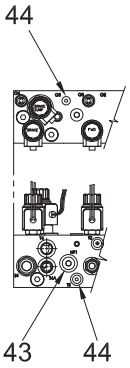
All Except Komatsu D65EX-12/15 (K46), D61EX-12/15 (K47) & Case Quadtrac (R39)
Used Only on S/N AW6G-1271,
and on S/N AW6G-1288 through S/N AW6G-1452
Page 1 of 2



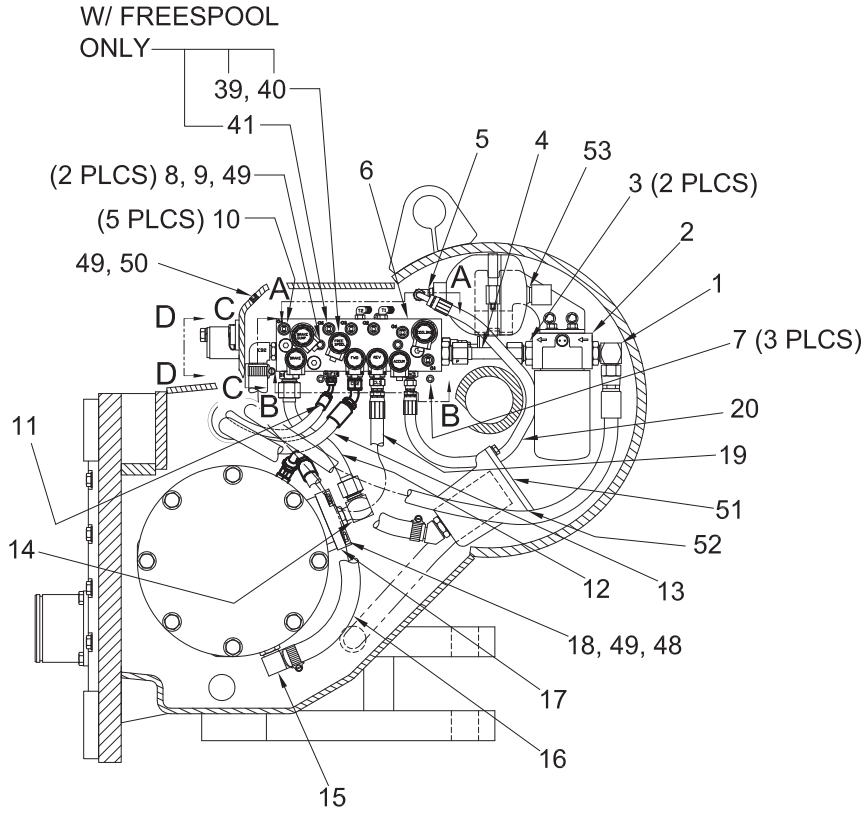
VIEW C-C



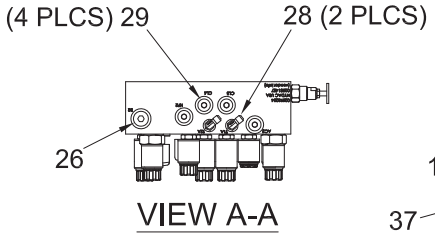
VIEW D-D



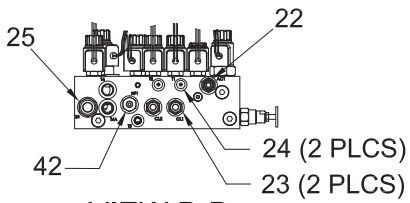
W/O FREESPOOL



W/ FREESPOOL SHOWN

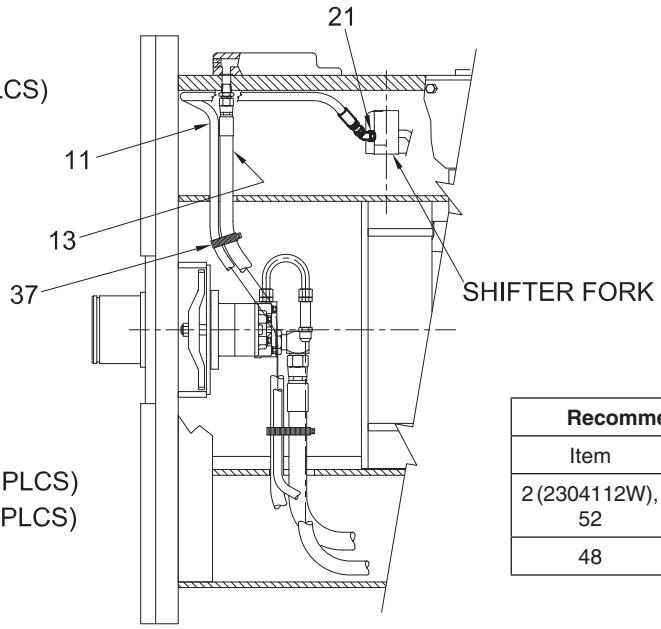


VIEW A-A



VIEW B-B

W/ FREESPOOL



Recommended Service Kit		
Item	Kit No.	Section
2 (2304112W), 52	2311168	5-1
48	2302729W	5-1

E-CONTROLS W/ FREESPOOL

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

All Except Komatsu D65EX-12/15 (K46), D61EX-12/15 (K47) & Case Quadtrac (R39)
Used Only on S/N AW6G-1271,
and on S/N AW6G-1288 through S/N AW6G-1452
Page 2 of 2

Item	Part No.	Description	Qty
1	138811W	Fitting	1
2	2304111W	Assembly, Filter	1
	2304112W	. Element, Filter	1
	2304862W	. Switch, Pressure	1
	2305132W	. Head, Filter	1
3	16543W	Fitting	2
4	2306736W	Assembly, Tube - Inlet	1
5	110174W	Fitting	1
6	2306547W	Assembly, Valve Manifold (3-138)	1
7	2305987W	Setscrew	3
8	18526W	Capscrew	2
9	18515W	Washer	2
10	2304825W	Fitting	5
11	2305560W	Assembly, Hose	1
12	2306739W	Assembly, Tube	1
13	2305559W	Assembly, Hose	1
14	222402W	Fitting	1
15	2305561W	Fitting, Hose	1
16	2305558W	Assembly, Hose	1
17	279392W	Block	1
18	16828W	Capscrew	2
19	2303739W	Assembly, Hose	1
20	2305407W	Assembly, Hose	1
21	16565W	Fitting	1
22	16745W	Fitting	1
23	16541W	Fitting	2
24	222442W	Fitting	2
25	142682W	Fitting	1

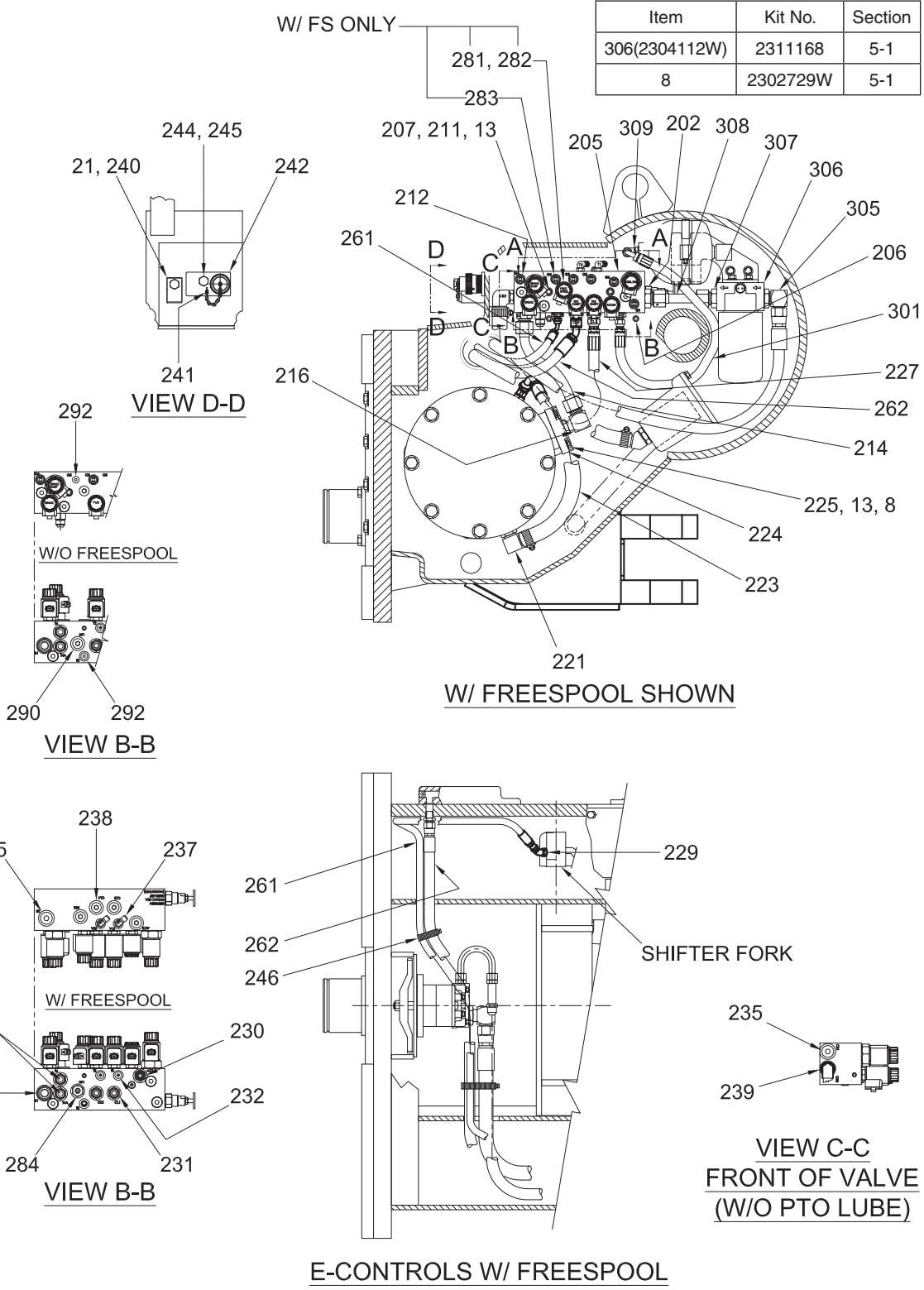
Item		Part No.	Description	Qty
26		233693W	Fitting	2
28		16556W	Fitting	2
29		235691W	Fitting	4
30		181957W	Fitting, Hose	1
31		2304366W	Plate, Cover	1
32		16602W	Screw	1
33	*c	2304503W	Retainer, Connector	1
35		178403W	Capscrew	1
36		15158W	Washer	1
37		129563W	Clamp, Strap	1
38		2303901W	Harness, Internal (Not Shown)	1
39	*a	2307769W	Valve, Cartridge	1
40	*a	2307770W	Valve Coil, 24V	1
41	*a	2304825W	Fitting	1
42	*a	222381W	Fitting	1
43	*b	235691W	Fitting	1
44	*b	222442W	Fitting	2
45	*b	2304877W	Plug - 2 Term (Not Shown)	1
48		196022W	Gasket	1
49		15156W	Washer	5
50		1300780W	Screw, Flanged	8
51		2300936W	Cover	1
52		2300935W	Gasket	1
53		R16271	Accumulator, Hydraulic	1

*a Used on Winches With Freespool
*b Used on Winches Without Freespool
*c Use 236308W Loctite

Hydraulic Group, Electronic Controls

All Except Komatsu D65EX-12/15 (K46), D61EX-12/15 (K47) & Case Quadtrac (R39)
Used on S/N AW6G-1453 through S/N AW6G-1517
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
306(2304112W)	2311168	5-1
8	2302729W	5-1



E-CONTROLS W/ FREESPOOL

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

All Except Komatsu D65EX-12/15 (K46), D61EX-12/15 (K47) & Case Quadtrac (R39)
Used on S/N AW6G-1453 through S/N AW6G-1517
Page 2 of 2

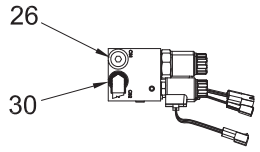
Item	Part No.	Description	Qty
8	196022W	Gasket	1
13	15156W	Washer	5
21	303946W	Gasket	1
202	16543W	Fitting	1
205	2306547W	Assembly, Valve Manifold (3-138)	1
206	2305987W	Setscrew	3
207	18526W	Capscrew	2
211	18515W	Washer	2
212	2304825W	Fitting	5
214	2306739W	Assembly, Tube	1
216	222402W	Fitting	1
221	2305561W	Fitting	1
223	2305558W	Assembly, Hose	1
224	279392W	Block	1
225	16828W	Capscrew	2
227	2303739W	Assembly, Hose	1
229	16565W	Fitting	1
230	16745W	Fitting	1
231	16541W	Fitting	2
232	222442W	Fitting	2
234	142682W	Fitting	1
235	233693W	Fitting	2
237	16556W	Fitting	2
238	235691W	Fitting	4
239	181957W	Fitting	1
240	2304366W	Plate, Cover	1
241	16602W	Screw	1

Item		Part No.	Description	Qty
242	*c	2311807	Connector, Retainer	1
244		178403W	Capscrew	1
245		15158W	Washer	1
246		129563W	Clamp, Strap	1
248		2313404	Valve, Check	1
261	*a	2305560W	Assembly, Hose	1
262	*a	2305559W	Assembly, Hose	1
281	*a	2307769W	Valve, Cartridge	1
282	*a	2311558	Coil, Valve - 24V	1
283	*a	2304825W	Fitting	1
284	*a	222381W	Fitting	1
290	*b	235691W	Fitting	1
292	*b	222442W	Fitting	2
301		2302109W	Clamp	1
305		138811W	Fitting	1
306		2304111W	Assembly, Filter	1
		2304112W	. Element, Filter	1
		2304862W	. Switch, Pressure	1
		2305132W	. Head, Filter	1
307		16543W	Fitting	1
308		2306736W	Assembly, Tube - Inlet	1
309		110174W	Fitting	1

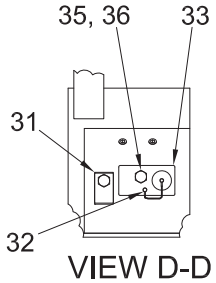
*a Used on Winches With Freespool
*b Used on Winches Without Freespool
*c Use 236308W Loctite

Hydraulic Group, Electronic Controls

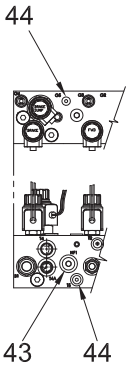
All Except Komatsu D65EX-12/15 (K46), D61EX-12/15 (K47) & Case Quadtrac (R39)
Used on S/N AW6G-1518 through S/N AW6G-1763
Page 1 of 2



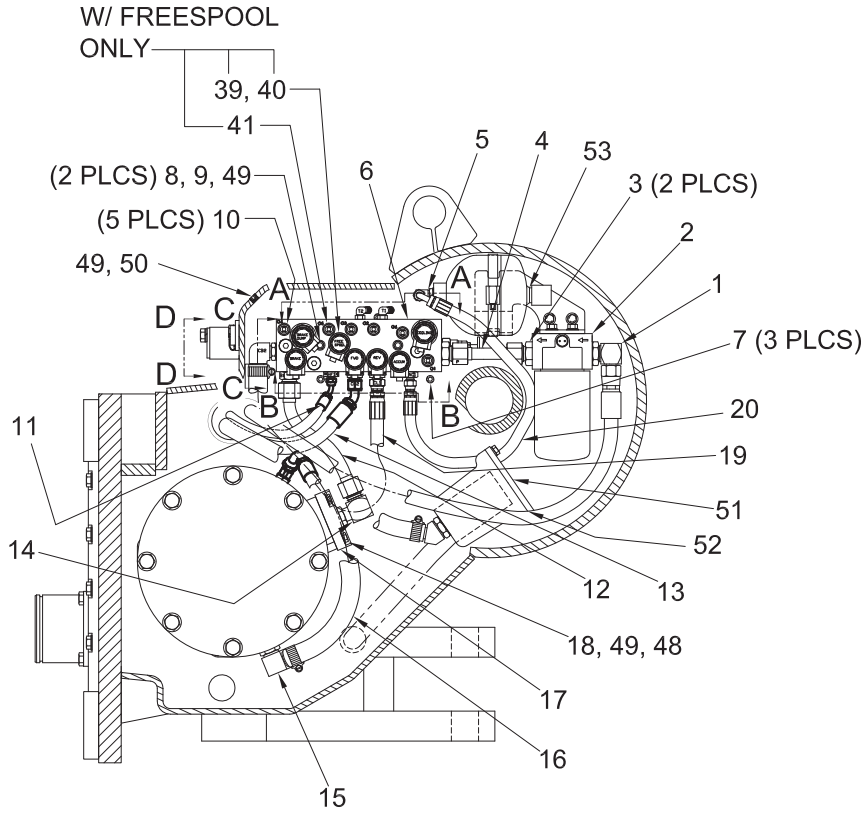
VIEW C-C



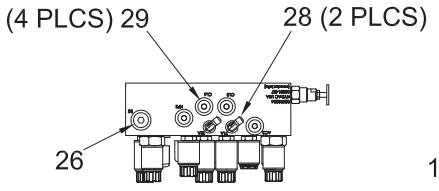
VIEW D-D



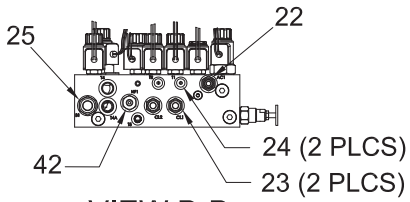
W/O FREESPOOL



W/ FREESPOOL SHOWN

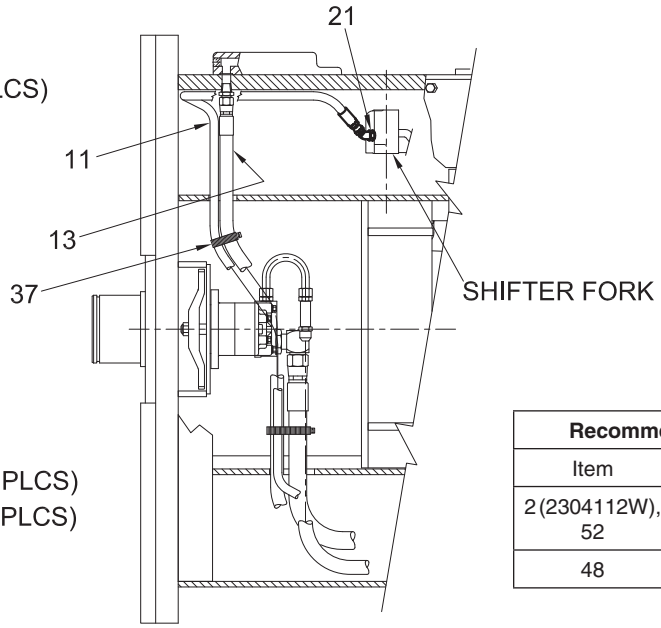


VIEW A-A



VIEW B-B

W/ FREESPOOL



E-CONTROLS W/ FREESPOOL

Recommended Service Kit		
Item	Kit No.	Section
2 (2304112W), 52	2311168	5-1
48	2302729W	5-1

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

All Except Komatsu D65EX-12/15 (K46), D61EX-12/15 (K47) & Case Quadtrac (R39)
Used on S/N AW6G-1518 through S/N AW6G-1763
Page 2 of 2

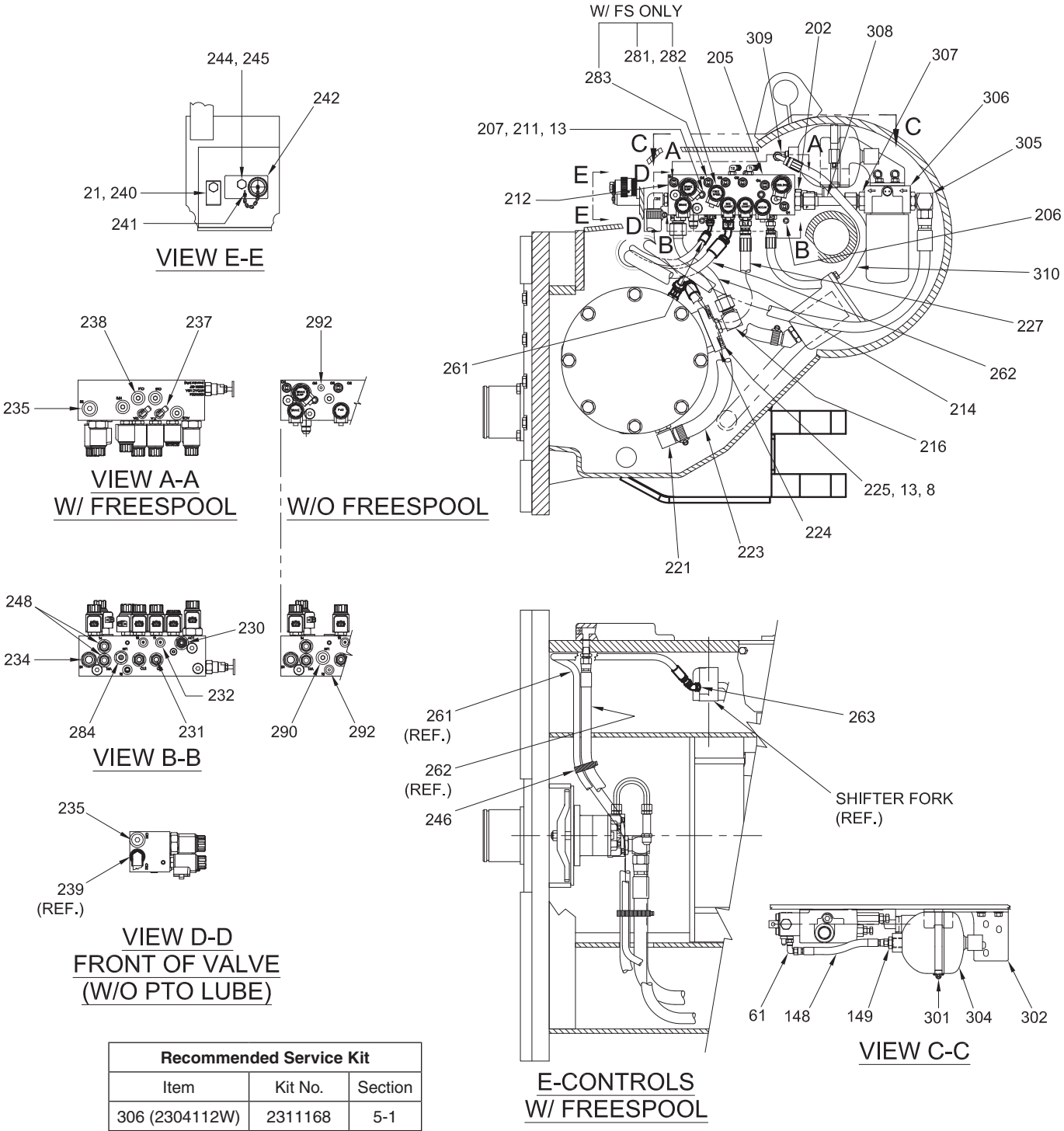
Item	Part No.	Description	Qty
1	138811W	Fitting	1
2	2304111W	Assembly, Filter	1
	2304112W	. Element, Filter	1
	2304862W	. Switch, Pressure	1
	2305132W	. Head, Filter	1
3	16543W	Fitting	2
4	2306736W	Assembly, Tube - Inlet	1
5	110174W	Fitting	1
6	2306547W	Assembly, Valve Manifold (3-138)	1
7	2305987W	Setscrew	3
8	18526W	Capscrew	2
9	18515W	Washer	2
10	2304825W	Fitting	5
11	2305560W	Assembly, Hose	1
12	2306739W	Assembly, Tube	1
13	2305559W	Assembly, Hose	1
14	222402W	Fitting	1
15	2305561W	Fitting, Hose	1
16	2305558W	Assembly, Hose	1
17	279392W	Block	1
18	16828W	Capscrew	2
19	2303739W	Assembly, Hose	1
20	2305407W	Assembly, Hose	1
21	16565W	Fitting	1
22	16745W	Fitting	1
23	16541W	Fitting	2
24	222442W	Fitting	2
25	142682W	Fitting	1

Item		Part No.	Description	Qty
26		233693W	Fitting	2
28		16556W	Fitting	2
29		235691W	Fitting	4
30		181957W	Fitting, Hose	1
31		2304366W	Plate, Cover	1
32		16602W	Screw	1
33	*c	2304503W	Retainer, Connector	1
35		178403W	Capscrew	1
36		15158W	Washer	1
37		129563W	Clamp, Strap	1
38		2310627	Harness, Internal (Not Shown)	1
39	*a	2307769W	Valve, Cartridge	1
40	*a	2307770W	Coil, Valve - 24V	1
41	*a	2304825W	Fitting	1
42	*a	222381W	Fitting	1
43	*b	235691W	Fitting	1
44	*b	222442W	Fitting	2
45	*b	2304877W	Plug - 2 Term (Not Shown)	1
48		196022W	Gasket	1
49		15156W	Washer	5
50		1300780W	Screw, Flanged	8
51		2300936W	Cover	1
52		2300935W	Gasket	1
53		R16271	Accumulator, Hydraulic	1

*a Used on Winches With Freespool
*b Used on Winches Without Freespool
*c Use 236308W Loctite

Hydraulic Group, Electronic Controls

All Except Komatsu D65EX-12/15 (K46), D61EX-12/15 (K47) & Case Quadtrac (R39)
Used on S/N AW6G-1764 through S/N AW6G-2018
Page 1 of 2

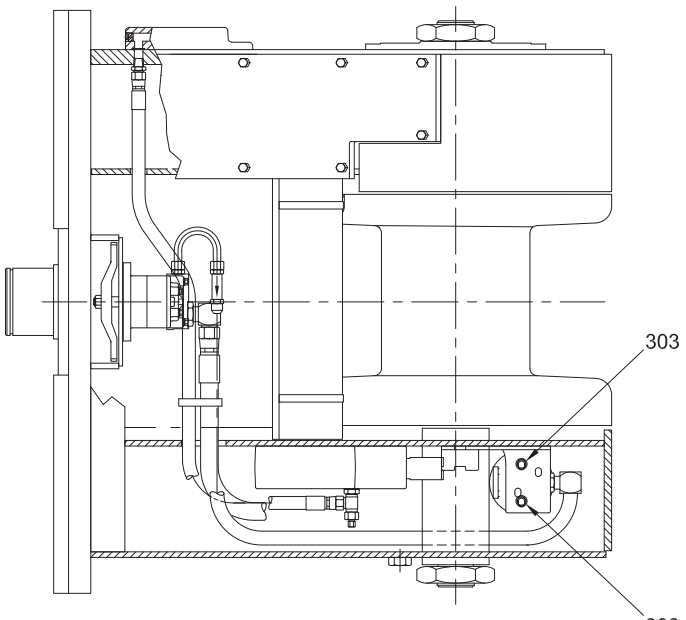


Recommended Service Kit		
Item	Kit No.	Section
306 (2304112W)	2311168	5-1
8, 21	2302729W	5-1

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

All Except Komatsu D65EX-12/15 (K46), D61EX-12/15 (K47) & Case Quadtrac (R39)
Used on S/N AW6G-1764 through S/N AW6G-2018
Page 2 of 2



TOP VIEW

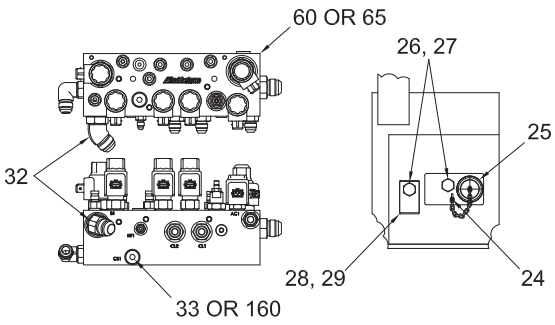
Item		Part No.	Description	Qty
8		196022W	Gasket	1
13		15156W	Washer	2
21		303946W	Gasket	1
61		16987W	Fitting	1
148		383982W	Assembly, Hose	1
149		222381W	Fitting	1
202		16543W	Fitting	1
205		2311887	Assembly, Manifold Valve (3-139)	1
206		2305987W	Setscrew	3
207		18526W	Capscrew	2
211		18515W	Washer	2
212		2304825W	Fitting, QC Test	5
214		2306739W	Assembly, Tube	1
216		222402W	Fitting	1
221		2305561W	Fitting	1
223		2305558W	Assembly, Hose	1
224		279392W	Block	1
225		16828W	Capscrew	2
227		2303739W	Assembly, Hose	1
230		16745W	Fitting	1
231		16541W	Fitting	2
232		222442W	Fitting	2
234		142682W	Fitting	1
235		233693W	Fitting	2
237		16556W	Fitting	2
238		235691W	Fitting	4
239		181957W	Fitting	1
240		2304366W	Plate, Cover	1
241		16602W	Screw	1
242	*a	2311807	Retainer, Connector	1
244		178403W	Capscrew	1

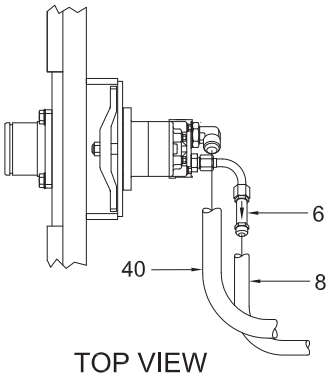
Item		Part No.	Description	Qty
245		15158W	Washer	1
246		129563W	Clamp, Strap	1
247		2311443	Harness, Internal (Not Shaown)	1
248		2313404	Valve, Check	2
261		2305560W	Assembly, Hose	1
262		2305559W	Assembly, Hose	1
263		16565W	Fitting	1
281	*b	2307769W	Valve, Cartridge	1
282	*b	2311558	Coil, Valve - 24V	1
283	*b	2304825W	Fitting, QC Test	1
284	*b	222381W	Fitting	1
290	*c	235691W	Fitting	1
292	*c	222442W	Fitting	2
293		2312259	Plug, 2-Term (Not Shown)	1
301		2302109W	Clamp	1
302		2305114W	Bracket, Mounting	1
303		1300780W	Screw, Flange	2
304		R16271	Accumulator, Hydraulic	1
305		138811W	Fitting	1
306		2304111W	Assembly, Filter	1
		2304112W	. Element, Filter	1
		2304862W	. Switch, Pressure	1
		2305132W	. Head, Filter	1
307		16543W	Fitting	1
308		2306736W	Assembly, Tube - Inlet	1
309		110174W	Fitting	1
310		2305407W	Assembly, Hose	1

*a Use 236308W Loctite
*b Used on Winches With Freespool
*c Used on Winches Without Freespool

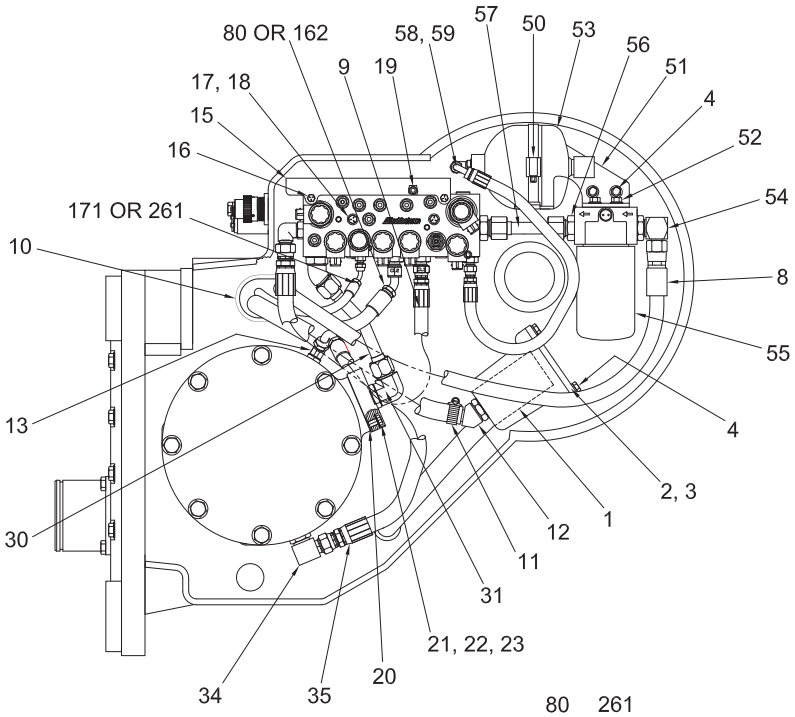
Hydraulic Group, Electronic Controls

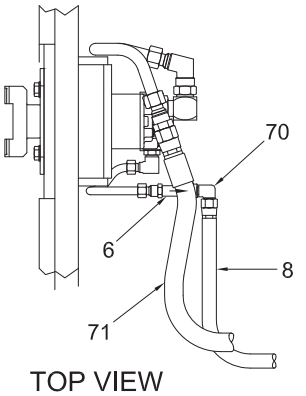
First Used on S/N AW6G-2019



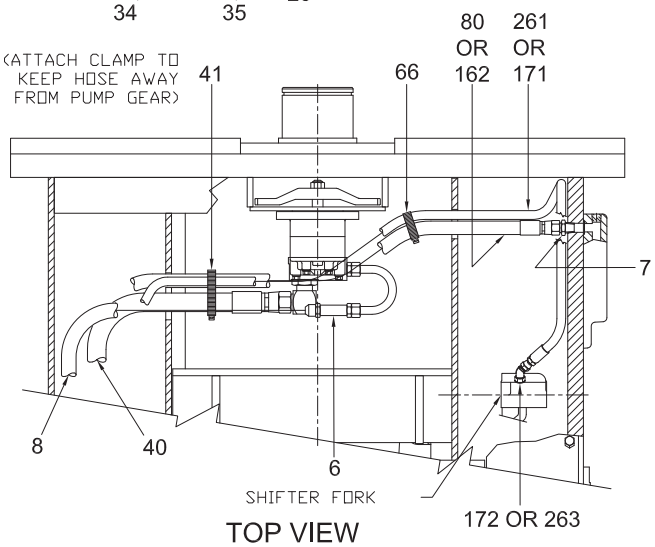


TOP VIEW
LOW INPUT - CCW PTO & PUMP ROTATION





TOP VIEW
HIGH INPUT - CCW PTO & PUMP ROTATION



TOP VIEW
E-CONTROLS WITH FREESPOOL
LOW INPUT - CW PTO & PUMP ROTATION

Recommended Service Kit		
Item	Kit No.	Section
55 (2304112W)	2311168	5-1
3, 20, 29	2302729W	5-1

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

First Used on S/N AW6G-2019

Item		Part No.	Description	Qty
1		219172W	Strainer	1
2		2300936W	Cover	1
3		2300935W	Gasket	1
4		1300780W	Screw, Flanged	4
6		2300758W	Valve, Check	1
7		17315W	Fitting	1
8		2300767W	Assembly, Hose	1
9		2303739W	Assembly, Hose	1
10		24257	Trim, Edge	12"
11		2312581	Clamp	1
12		2302985W	Fitting	1
13		16568W	Fitting	1
15		2315822	Guard, Splash	1
16		133469W	Capscrew	2
17		18526W	Capscrew	2
18		18518W	Washer	2
19		2305987W	Setscrew	3
20		196022W	Gasket	1
21		279392W	Block	1
22		16828W	Capscrew	2
23		15134W	Washer	2
24		16602W	Screw	1
25		2311807	Retainer, Connector	1
26		178403W	Capscrew	2
27		15158W	Washer	2
28		2304366W	Plate, Cover	1
29		303946W	Gasket	1
30		2315998	Assembly, Tube - Brake	1
31		222402W	Fitting	1
32		16570W	Fitting	1
33		222443W	Fitting	1
34		201776W	Fitting	1
35		2316025	Assembly, Hose	1
40	*a	2300760W	Assembly, Hose	1
41	*a	129563W	Tie, Cable (Black)	1
50		2302109W	Clamp	1
51		2305114W	Bracket, Mounting	1

Item		Part No.	Description	Qty
52		1300780W	Screw, Flanged	2
53		R16271	Accumulator	1
54		138811W	Fitting	1
55		2304111W	Assembly, Filter	1
		2304112W	. Element, Filter	1
		2304862W	. Switch, Pressure	1
		2305132W	. Head, Filter	1
56		16543W	Fitting	1
57		2306736W	Assembly, Tube - Inlet	1
58		110174W	Fitting	1
59		2305407W	Assembly, Hose	1
60		2315717	Assembly, Manifold - Non Freespool (3-140)	1
65		2315945	Assembly, Manifold - Freespool (3-141)	1
66		129563W	Tie, Cable (Black)	1
70	*b	16989W	Fitting	1
71	*b	2300760W	Assembly, Hose	1
80	*c	2305559W	Assembly, Hose	1
160	*d	17753W	Fitting	1
162	*d	2310666	Assembly, Hose	1
171	*d	2310667	Assembly, Hose	1
172	*d	16565W	Fitting	1
261	*c	2305560W	Assembly, Hose	1
263	*c	16565W	Fitting	1

*a Used on CASE 1850K (R49); CAT D6H (C480/C481)/D6R I & II (C71); F/H FD14E, FD175 & 195, DX175 & 195 (A48), DC-180 (A49);

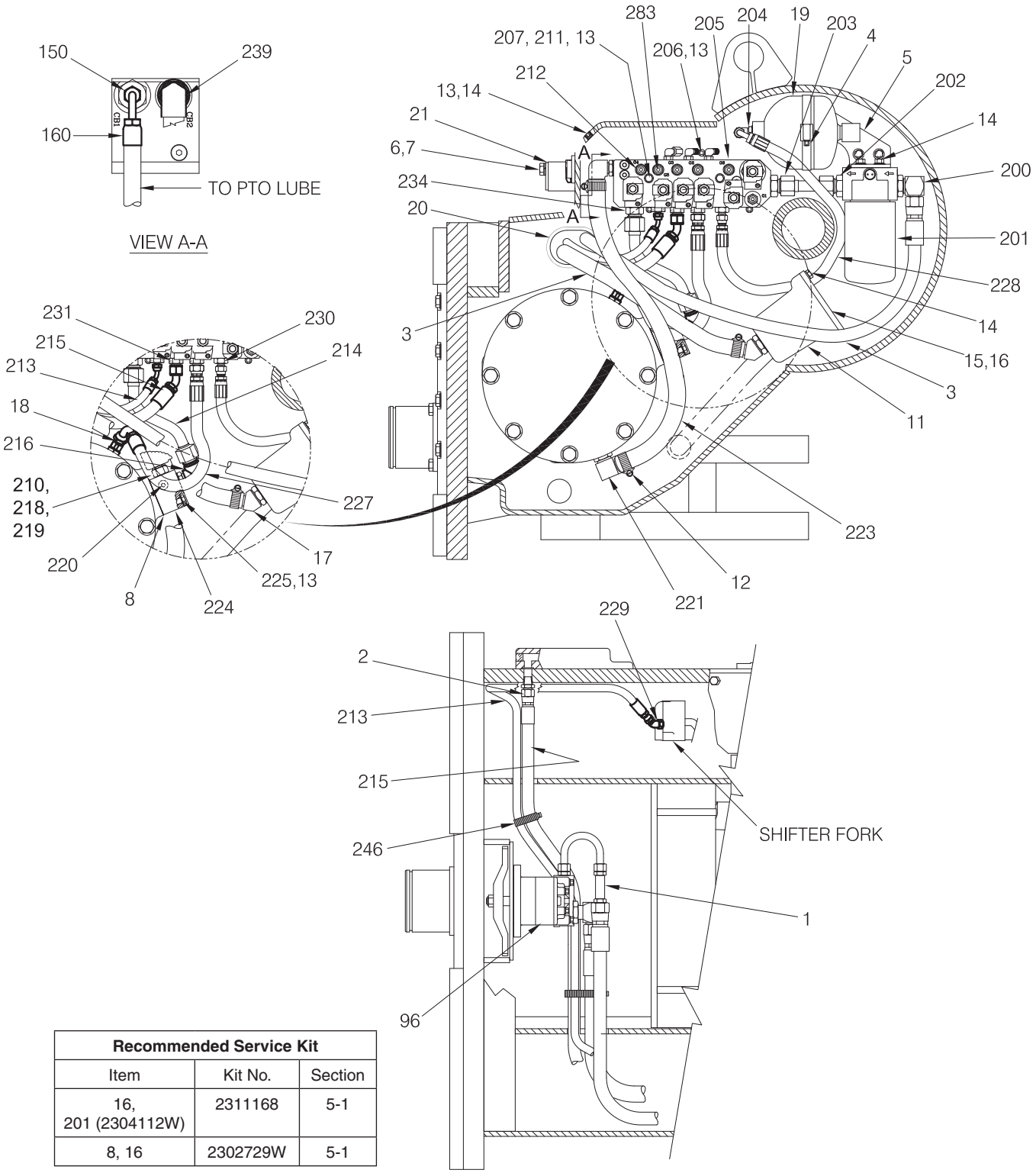
*b Used on JD750C II (E45) & 850C II (E46)

*c Used on all winches with Freespool except KOM D61 (K47), D65 (K46) & CASE Quadtrac (R39)

*d Used on KOM D61EX-12 (K47), D65EX-12 (K46) & CASE Quadtrac (R39)

Hydraulic Group, Electronic Controls

Case Quadtrac (R39)
Last Used on S/N AW6G-1287
(Except S/N AW6G-1271)
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
16, 201 (2304112W)	2311168	5-1
8, 16	2302729W	5-1

TOP VIEW W/ FREESPOOL
FREESPOOL CONFIGURATION SHOWN

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

Case Quadtrac (R39)
Last Used on S/N AW6G-1287
(Except S/N AW6G-1271)
Page 2 of 2

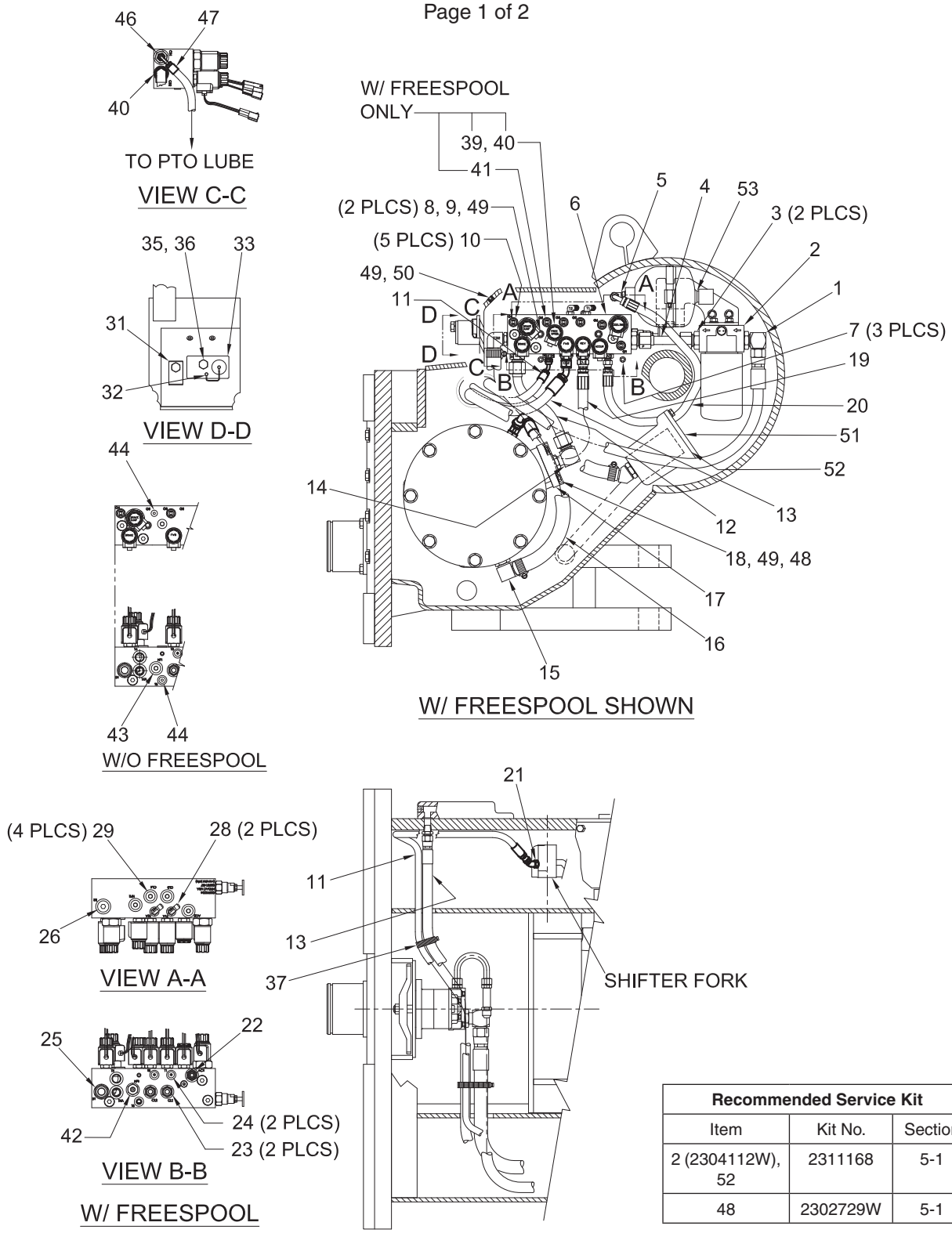
Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
11		219172W	Strainer	1
12		209639W	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	8
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
19		R16271	Accumulator	1
20		24257	Trim	AR
21		303946W	Gasket	1
85		2305394W	Assembly, Hose	1
96		- - - - - - - -	Pump, Hydraulic (3-180 thru 3-183)	1
150		17756W	Fitting	1
160		2305586W	Assembly, Hose	1
200		138811W	Fitting	1
201		2304111W	Assembly, Filter	1
		2304112W	. Element, Filter	1
		2304862W	. Switch, Pressure	1
		2305132W	. Head, Filter	1
202		16543W	Fitting	2
203		2305113W	Assembly, Tube - Inlet	1
204		110174W	Fitting	1

Item		Part No.	Description	Qty
205		2303889W	Assembly, Valve Manifold (3-137)	1
206		2305987W	Setscrew	3
207		18524W	Capscrew	2
210		2304845W	Washer, Tab	1
211		18515W	Washer	2
212		2304825W	Fitting	5
213		2305560W	Assembly, Hose	1
214		2305481W	Assembly, Tube	1
215		2305559W	Assembly, Hose	1
216		111331W	Fitting	1
218		R15005	Coil, 24V	1
219		2305260W	Valve	1
220		222443W	Fitting	1
221		2305561W	Fitting	1
223		2305558W	Assembly, Hose	1
224		2305056W	Dump, Valve Manifold	1
225		16379W	Capscrew	2
227		2303739W	Assembly, Hose	1
228		2305407W	Assembly, Hose	1
229		16565W	Fitting	1
230		16745W	Fitting	1
231		16541W	Fitting	2
234		142682W	Fitting	1
239		181957W	Fitting	1
246		129563W	Clamp, Strap	1
283	*b	2304825W	Fitting	1
283		222442W	Fitting	1

*a Use 273338W Pipe Thread Sealant
*b Used on Winches With Freespool

Hydraulic Group, Electronic Controls

Case Quadtrac (R39)
Used Only on S/N AW6G-1271,
and on S/N AW6G-1288 through S/N AW6G-1452
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
2 (2304112W), 52	2311168	5-1
48	2302729W	5-1

E-CONTROLS W/ FREESPOOL

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

Case Quadtrac (R39)
Used Only on S/N AW6G-1271,
and on S/N AW6G-1288 through S/N AW6G-1452
Page 2 of 2

Item	Part No.	Description	Qty
1	138811W	Fitting	1
2	2304111W	Assembly, Filter	1
	2304112W	. Element, Filter	1
	2304862W	. Switch, Pressure	1
	2305132W	. Head, Filter	1
3	16543W	Fitting	2
4	2306736W	Assembly, Tube - Inlet	1
5	110174W	Fitting	1
6	2306547W	Assembly, Valve Manifold (3-138)	1
7	2305987W	Setscrew	3
8	18526W	Capscrew	2
9	18515W	Washer	2
10	2304825W	Fitting	5
11	2305560W	Assembly, Hose	1
12	2306739W	Assembly, Tube	1
13	2305559W	Assembly, Hose	1
14	222402W	Fitting	1
15	2305561W	Fitting, Hose	1
16	2305558W	Assembly, Hose	1
17	279392W	Block	1
18	16828W	Capscrew	2
19	2303739W	Assembly, Hose	1
20	2305407W	Assembly, Hose	1
21	16565W	Fitting	1
22	16745W	Fitting	1
23	16541W	Fitting	2
24	222442W	Fitting	2
25	142682W	Fitting	1
26	233693W	Fitting	2

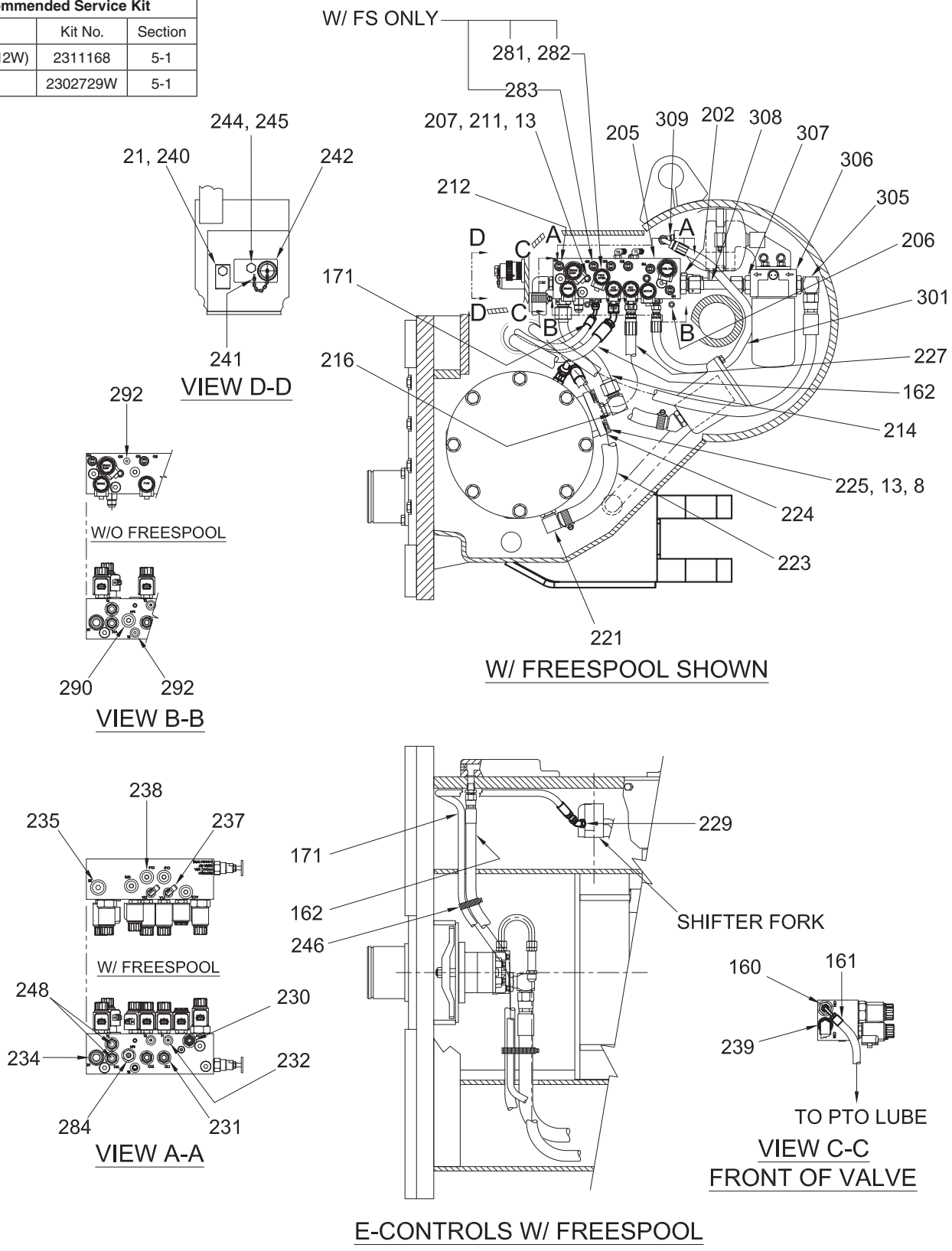
Item		Part No.	Description	Qty
28		16556W	Fitting	2
29		235691W	Fitting	4
30		181957W	Fitting, Hose	1
31		2304366W	Plate, Cover	1
32		16602W	Screw	1
33	*c	2304503W	Retainer, Connector	1
35		178403W	Capscrew	1
36		15158W	Washer	1
37		129563W	Clamp, Strap	1
38		2303901W	Harness, Internal (Not Shown)	1
39	*a	2307769W	Valve, Cartridge	1
40	*a	2307770W	Coil, Valve - 24V	1
41	*a	2304825W	Fitting	1
42	*a	222381W	Fitting	1
43	*b	235691W	Fitting	1
44	*b	222442W	Fitting	2
45	*b	2304877W	Plug - 2 Term (Not Shown)	1
46		17756W	Fitting	1
47		2305586W	Assembly, Hose	1
48		196022W	Gasket	1
49		15156W	Washer	5
50		1300780W	Screw, Flanged	8
51		2300936W	Cover	1
52		2300935W	Gasket	1
53		R16271	Accumulator, Hydraulic	1

*a Used on Winches With Freespool
*b Used on Winches Without Freespool
*c Use 236308W Loctite

Hydraulic Group, Electronic Controls

Case Quadtrac (R39)
Used S/N AW6G-1453 through S/N AW6G-1517
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
306(2304112W)	2311168	5-1
8	2302729W	5-1



See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group - Electronic Controls

Case Quadtrac (R39)
Used S/N AW6G-1453 thru S/N AW6G-1517

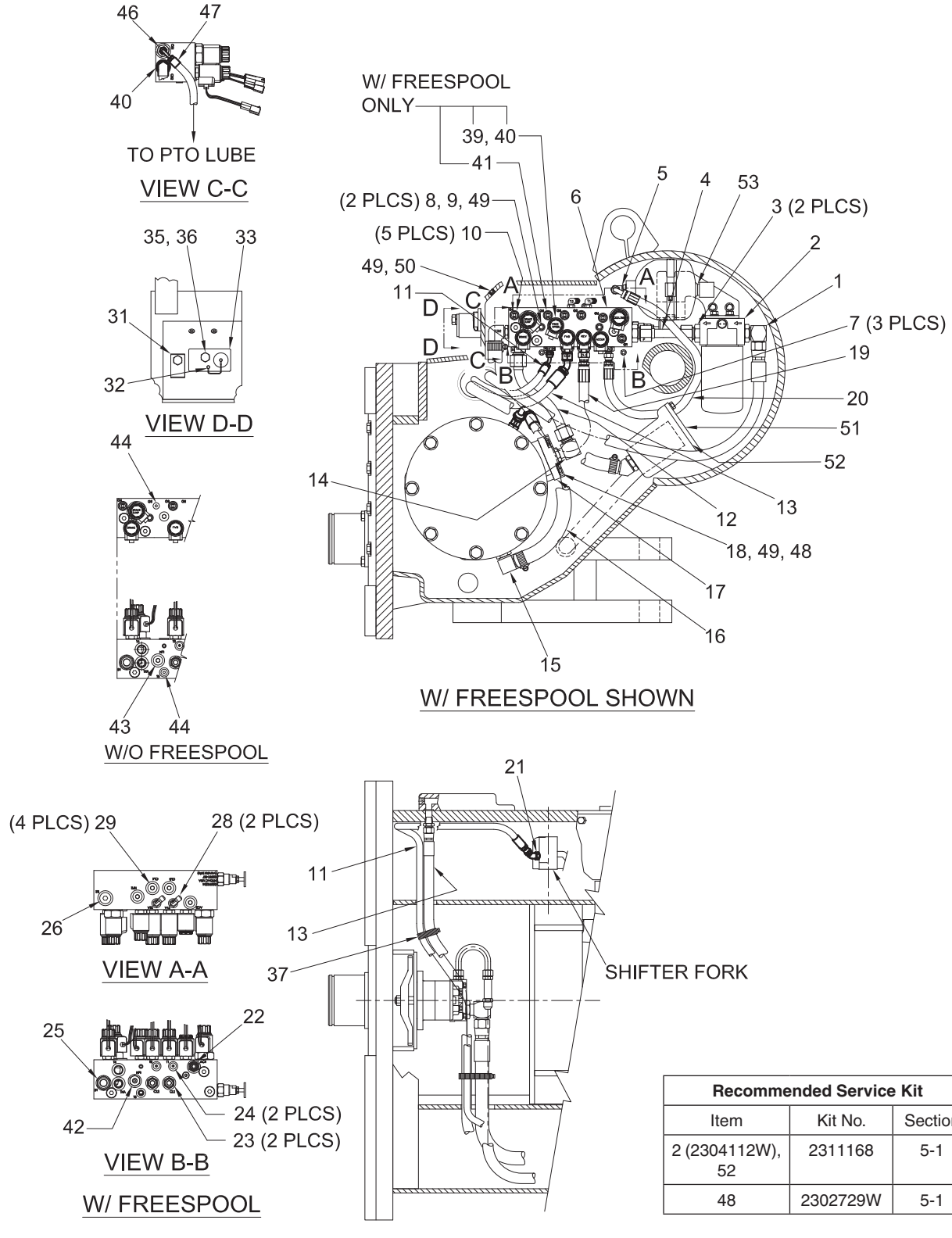
Item	Part No.	Description	Qty
8	196022W	Gasket	1
13	15156W	Washer	5
21	303946W	Gasket	1
160	17756W	Fitting	1
161	2305586W	Assembly, Hose	1
162	2310666	Assembly, Hose	1
171	2310667	Assembly, Hose	1
202	16543W	Fitting	1
205	2311887	Assembly, Valve Manifold (3-99)	1
206	2305987W	Setscrew	3
207	18526W	Capscrew	2
211	18515W	Washer	2
212	2304825W	Fitting	5
214	2306739W	Assembly, Tube	1
216	222402W	Fitting	1
221	2305561W	Fitting	1
223	2305558W	Assembly, Hose	1
224	279392W	Block	1
225	16828W	Capscrew	2
227	2303739W	Assembly, Hose	1
229	16565W	Fitting	1
230	16745W	Fitting	1
231	16541W	Fitting	2
232	222442W	Fitting	2
234	142682W	Fitting	1
235	233693W	Fitting	2
237	16556W	Fitting	2
238	235691W	Fitting	4

Item		Part No.	Description	Qty
239		181957W	Fitting	1
240		2304366W	Plate, Cover	1
241		16602W	Screw	1
242	*c	2311807	Connector, Retainer	1
244		178403W	Capscrew	1
245		15158W	Washer	1
246		129563W	Clamp, Strap	1
248		2313404	Valve, Check	1
281	*a	2307769W	Valve, Cartridge	1
282	*a	2311558	Coil, Valve - 24V	1
283	*a	2304825W	Fitting	1
284	*a	222381W	Fitting	1
290	*b	235691W	Fitting	1
292	*b	222442W	Fitting	2
301		2302109W	Clamp	1
305		138811W	Fitting	1
306		2304111W	Assembly, Filter	1
		2304112W	. Element, Filter	1
		2304862W	. Switch, Pressure	1
		2305132W	. Head, Filter	1
307		16543W	Fitting	1
308		2306736W	Assembly, Tube - Inlet	1
309		110174W	Fitting	1

*a Used on Winches With Freespool
*b Used on Winches Without Freespool
*c Use 236308W Sealant, Loctite Ultra Blue

Hydraulic Group, Electronic Controls

Case Quadtrac (R39)
Used on S/N AW6G-1518 through S/N AW6G-1763
Page 1 of 2



E-CONTROLS W/ FREESPOOL

Recommended Service Kit		
Item	Kit No.	Section
2 (2304112W), 52	2311168	5-1
48	2302729W	5-1

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

Case Quadtrac (R39)
Used on S/N AW6G-1518 through S/N AW6G-1763
Page 2 of 2

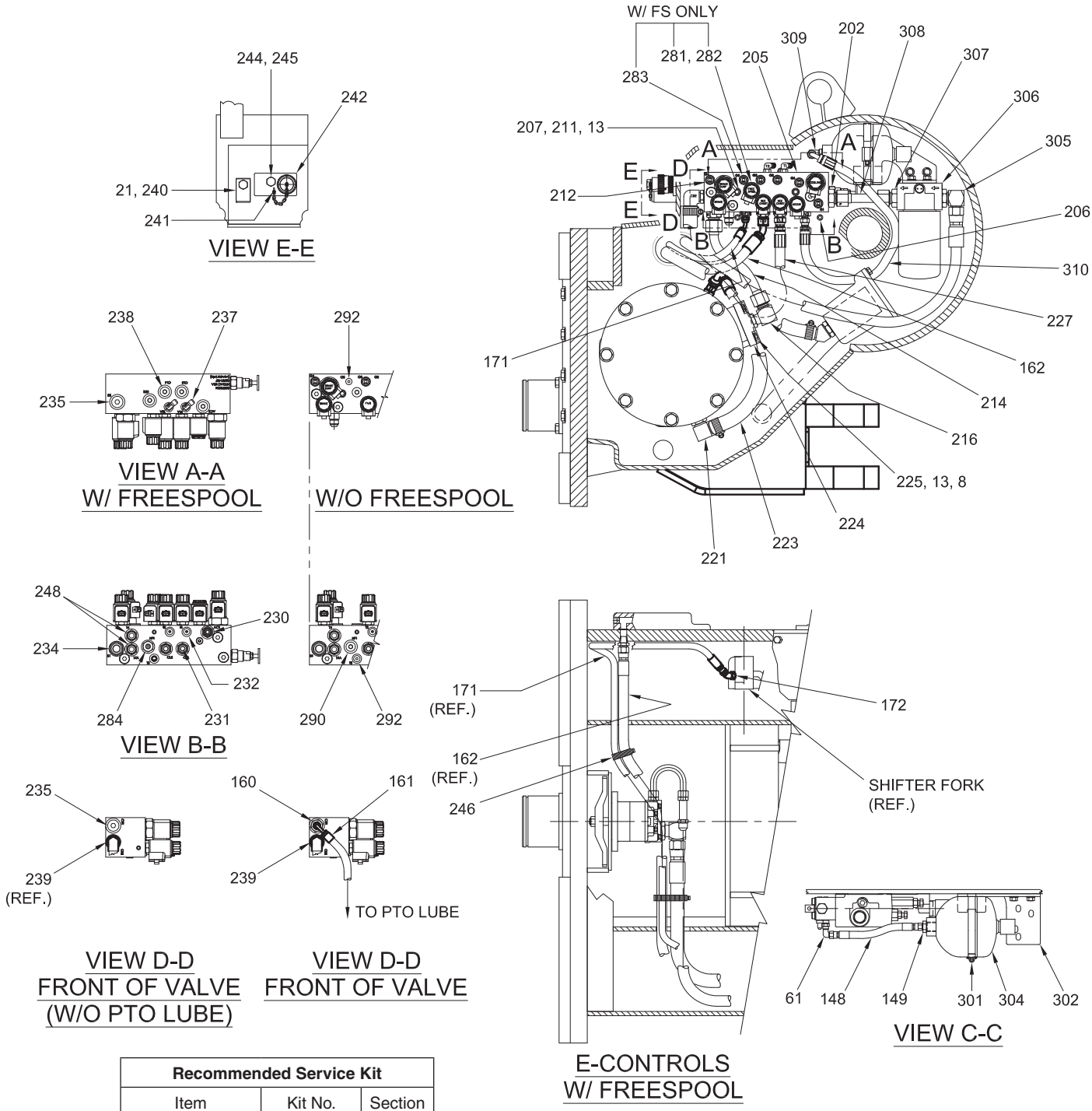
Item	Part No.	Description	Qty
1	138811W	Fitting	1
2	2304111W	Assembly, Filter	1
	2304112W	. Element, Filter	1
	2304862W	. Switch, Pressure	1
	2305132W	. Head, Filter	1
3	16543W	Fitting	2
4	2306736W	Assembly, Tube - Inlet	1
5	110174W	Fitting	1
6	2306547W	Assembly, Valve Manifold (3-138)	1
7	2305987W	Setscrew	3
8	18526W	Capscrew	2
9	18515W	Washer	2
10	2304825W	Fitting	5
11	2305560W	Assembly, Hose	1
12	2306739W	Assembly, Tube	1
13	2305559W	Assembly, Hose	1
14	222402W	Fitting	1
15	2305561W	Fitting, Hose	1
16	2305558W	Assembly, Hose	1
17	279392W	Block	1
18	16828W	Capscrew	2
19	2303739W	Assembly, Hose	1
20	2305407W	Assembly, Hose	1
21	16565W	Fitting	1
22	16745W	Fitting	1
23	16541W	Fitting	2
24	222442W	Fitting	2
25	142682W	Fitting	1
26	233693W	Fitting	2

Item		Part No.	Description	Qty
28		16556W	Fitting	2
29		235691W	Fitting	4
30		181957W	Fitting, Hose	1
31		2304366W	Plate, Cover	1
32		16602W	Screw	1
33	*c	2304503W	Retainer, Connector	1
35		178403W	Capscrew	1
36		15158W	Washer	1
37		129563W	Clamp, Strap	1
38		2310627	Harness, Internal (Not Shown)	1
39	*a	2307769W	Valve, Cartridge	1
40	*a	2307770W	Coil, Valve - 24V	1
41	*a	2304825W	Fitting	1
42	*a	222381W	Fitting	1
43	*b	235691W	Fitting	1
44	*b	222442W	Fitting	2
45	*b	2304877W	Plug - 2 Term (Not Shown)	1
46		17756W	Fitting	1
47		2305586W	Assembly, Hose	1
48		196022W	Gasket	1
49		15156W	Washer	5
50		1300780W	Screw, Flanged	8
51		2300936W	Cover	1
52		2300935W	Gasket	1
53		R16271	Accumulator, Hydraulic	1

*a Used on Winches With Freespool
*b Used on Winches Without Freespool
*c Use 236308W Loctite

Hydraulic Group, Electronic Controls

Case Quadtrac (R39)
Used on S/N AW6G-1764 through S/N AW6G-2018
Page 1 of 2

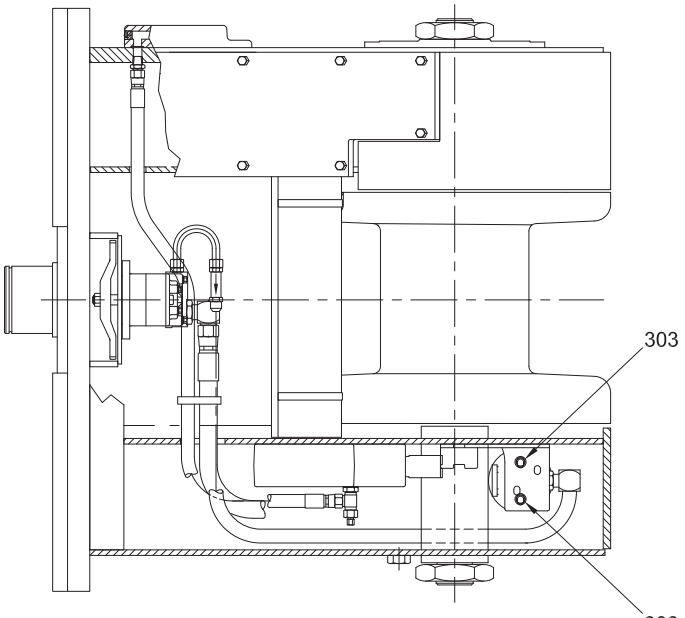


Recommended Service Kit		
Item	Kit No.	Section
306 (2304112W)	2311168	5-1
8, 21	2302729W	5-1

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

Case Quadtrac (R39)
Used on S/N AW6G-1764 through S/N AW6G-2018



TOP VIEW

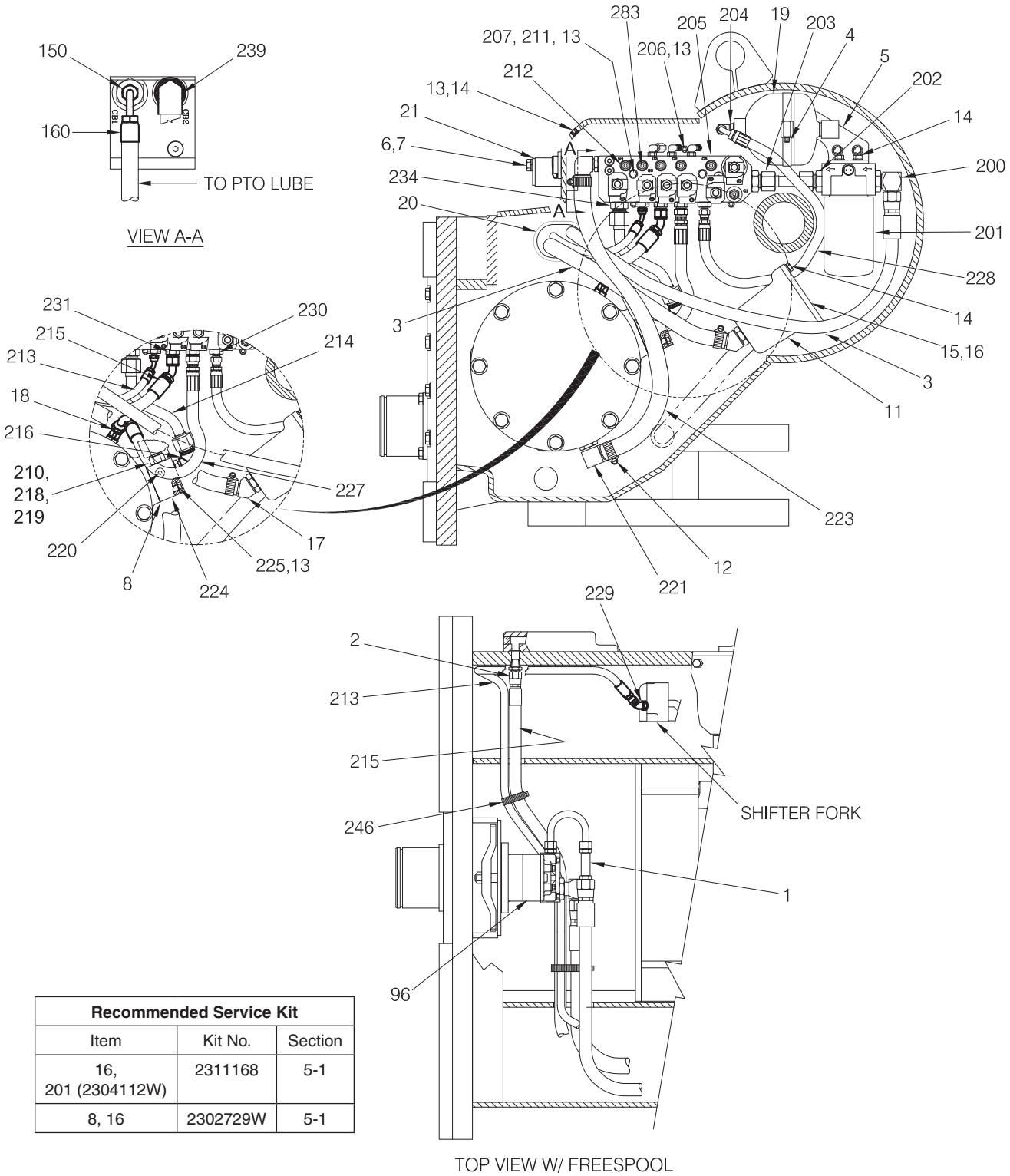
Item	Part No.	Description	Qty
8	196022W	Gasket	1
13	15156W	Washer	2
21	303946W	Gasket	1
61	16987W	Fitting	1
148	383982W	Assembly, Hose	1
149	222381W	Fitting	1
160	17756W	Fitting	1
161	2305586W	Assembly, Hose	1
162	2310666	Assembly, Hose	1
171	2310667	Assembly, Hose	1
172	16565W	Fitting	1
202	16543W	Fitting	1
205	2311887	Assembly, Manifold Valve (3-139)	1
206	2305987W	Setscrew	3
207	18526W	Capscrew	2
211	18515W	Washer	2
212	2304825W	Fitting, QC Test	5
214	2306739W	Assembly, Tube	1
216	222402W	Fitting	1
221	2305561W	Fitting	1
223	2305558W	Assembly, Hose	1
224	279392W	Block	1
225	16828W	Capscrew	2
227	2303739W	Assembly, Hose	1
230	16745W	Fitting	1
231	16541W	Fitting	2
232	222442W	Fitting	2
234	142682W	Fitting	1
235	233693W	Fitting	2
237	16556W	Fitting	2
238	235691W	Fitting	4
239	181957W	Fitting	1

Item		Part No.	Description	Qty
240		2304366W	Plate, Cover	1
241		16602W	Screw	1
242	*a	2311807	Retainer, Connector	1
244		178403W	Capscrew	1
245		15158W	Washer	1
246		129563W	Clamp, Strap	1
247		2311443	Harness, Internal (Not Shown)	1
248		2313404	Valve, Check	2
281	*b	2307769W	Valve, Cartridge	1
282	*b	2311558	Coil, Valve - 24V	1
283	*b	2304825W	Fitting, QC Test	1
284	*b	222381W	Fitting	1
290	*c	235691W	Fitting	1
292	*c	222442W	Fitting	2
293		2312259	Plug, 2-Term (Not Shown)	1
301		2302109W	Clamp	1
302		2305114W	Bracket, Mounting	1
303		1300780W	Screw, Flanged	2
304		R16271	Accumulator, Hydraulic	1
305		138811W	Fitting	1
306		2304111W	Assembly, Filter	1
		2304112W	. Element, Filter	1
		2304862W	. Switch, Pressure	1
		2305132W	. Head, Filter	1
307		16543W	Fitting	1
308		2306736W	Assembly, Tube - Inlet	1
309		110174W	Fitting	1
310		2305407W	Assembly, Hose	1

*a Use 236308W Loctite
*b Used on Winches With Freespool
*c Used on Winches Without Freespool

Hydraulic Group, Electronic Controls

Komatsu 65EX-12/15 (K46)
Last Used on AW6G-1287
(Except AW6G-1271)
Page 1 of 2



Recommended Service Kit		
Item	Kit No.	Section
16, 201 (2304112W)	2311168	5-1
8, 16	2302729W	5-1

TOP VIEW W/ FREESPOOL

FREESPOOL CONFIGURATION SHOWN

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

Komatsu 65EX-12/15 (K46)
Last Used on AW6G-1287
(Except AW6G-1271)
Page 2 of 2

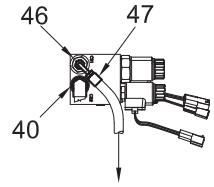
Item		Part No.	Description	Qty
1		2300758W	Valve, Check	1
2		17315W	Fitting	1
3		2300767W	Assembly, Hose	1
4		2302109W	Clamp	1
5		2305114W	Bracket, Mounting	1
6		16829W	Capscrew	1
7		15158W	Washer	4
8		196022W	Gasket	1
11		219172W	Strainer	1
12		209639W	Clamp	3
13		15156W	Washer	5
14	*a	1300780W	Screw, Flanged	8
15		2300936W	Cover	1
16		2300935W	Gasket	1
17		2302985W	Fitting	1
18		16568W	Fitting	1
19		R16271	Accumulator	1
20		24257	Trim	AR
21		303946W	Gasket	1
85		2301646W	Hose	1
96		- - - - - - - -	Pump, Hydraulic (3-184 thru 3-187)	1
150		17756W	Fitting	1
160		2305586W	Assembly, Hose	1
200		138811W	Fitting	1
201		2304111W	Assembly, Filter	1
		2304112W	. Element, Filter	1
		2304862W	. Switch, Pressure	1
		2305132W	. Head, Filter	1
202		16543W	Fitting	2
203		2305113W	Assembly, Tube - Inlet	1
204		110174W	Fitting	1

Item		Part No.	Description	Qty
205		2303889W	Assembly, Valve Manifold (3-137)	1
206		2305987W	Setscrew	3
207		18524W	Capscrew	2
210		2304845W	Washer, Tab	1
211		18515W	Washer	2
212		2304825W	Fitting	5
213		2305560W	Assembly, Hose	1
214		2305481W	Assembly, Tube	1
215		2305559W	Assembly, Hose	1
216		111331W	Fitting	1
218		R15005	Coil, 24V	1
219		2305260W	Valve	1
220		222443W	Fitting	1
221		2305561W	Fitting	1
223		2305558W	Assembly, Hose	1
224		2305056W	Dump, Valve Manifold	1
225		16379W	Capscrew	2
227		2303739W	Assembly, Hose	1
228		2305407W	Assembly, Hose	1
229		16565W	Fitting	1
230		16745W	Fitting	1
231		16541W	Fitting	2
234		142682W	Fitting	1
239		181957W	Fitting	1
246		129563W	Clamp, Strap	1
283	*b	2304825W	Fitting	1
283		222442W	Fitting	1

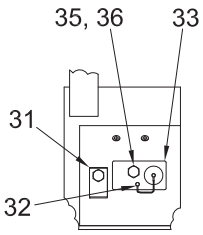
*a Use 273338W Pipe Thread Sealant
*b Used on Winches With Freespool Option Only

Hydraulic Group, Electronic Controls

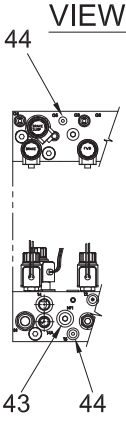
Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
Used only on S/N AW6G-1271,
and on S/N AW6G-1288 through S/N AW6G-1452
Page 1 of 2



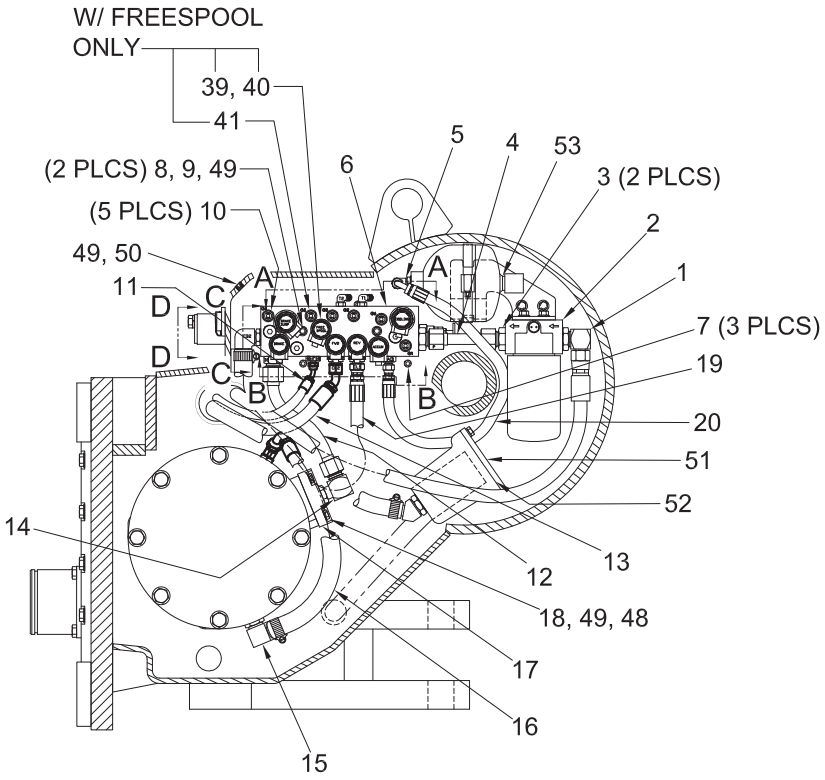
VIEW C-C



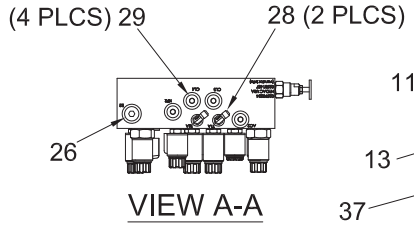
VIEW D-D



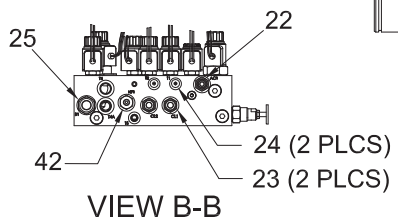
W/O FREESPOOL



W/ FREESPOOL SHOWN

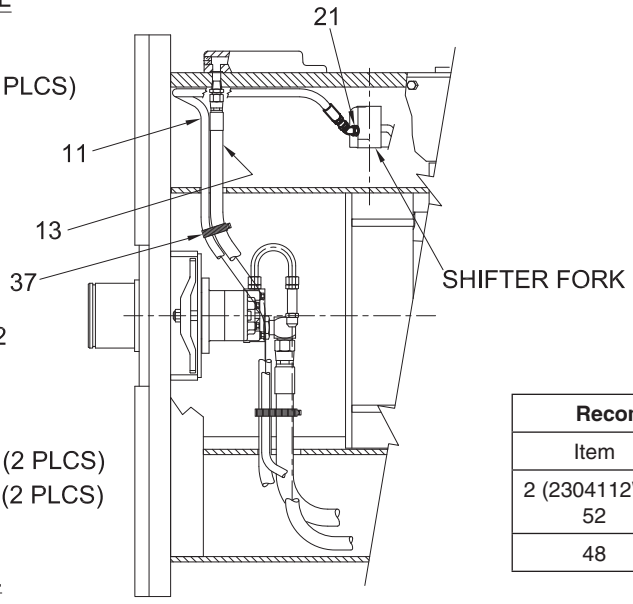


VIEW A-A



VIEW B-B

W/ FREESPOOL



Recommended Service Kit		
Item	Kit No.	Section
2 (2304112W), 52	2311168	5-1
48	2302729W	5-1

E-CONTROLS W/ FREESPOOL

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
Used only on S/N AW6G-1271,
and on S/N AW6G-1288 through S/N AW6G-1452
Page 2 of 2

Item	Part No.	Description	Qty
1	138811W	Fitting	1
2	2304111W	Assembly, Filter	1
	2304112W	. Element, Filter	1
	2304862W	. Switch, Pressure	1
	2305132W	. Head, Filter	1
3	16543W	Fitting	2
4	2306736W	Assembly, Tube - Inlet	1
5	110174W	Fitting	1
6	2306547W	Assembly, Valve Manifold (3-138)	1
7	2305987W	Setscrew	3
8	18526W	Capscrew	2
9	18515W	Washer	2
10	2304825W	Fitting	5
11	2305560W	Assembly, Hose	1
12	2306739W	Assembly, Tube	1
13	2305559W	Assembly, Hose	1
14	222402W	Fitting	1
15	2305561W	Fitting, Hose	1
16	2305558W	Assembly, Hose	1
17	279392W	Block	1
18	16828W	Capscrew	2
19	2303739W	Assembly, Hose	1
20	2305407W	Assembly, Hose	1
21	16565W	Fitting	1
22	16745W	Fitting	1
23	16541W	Fitting	2
24	222442W	Fitting	2
25	142682W	Fitting	1
26	233693W	Fitting	2

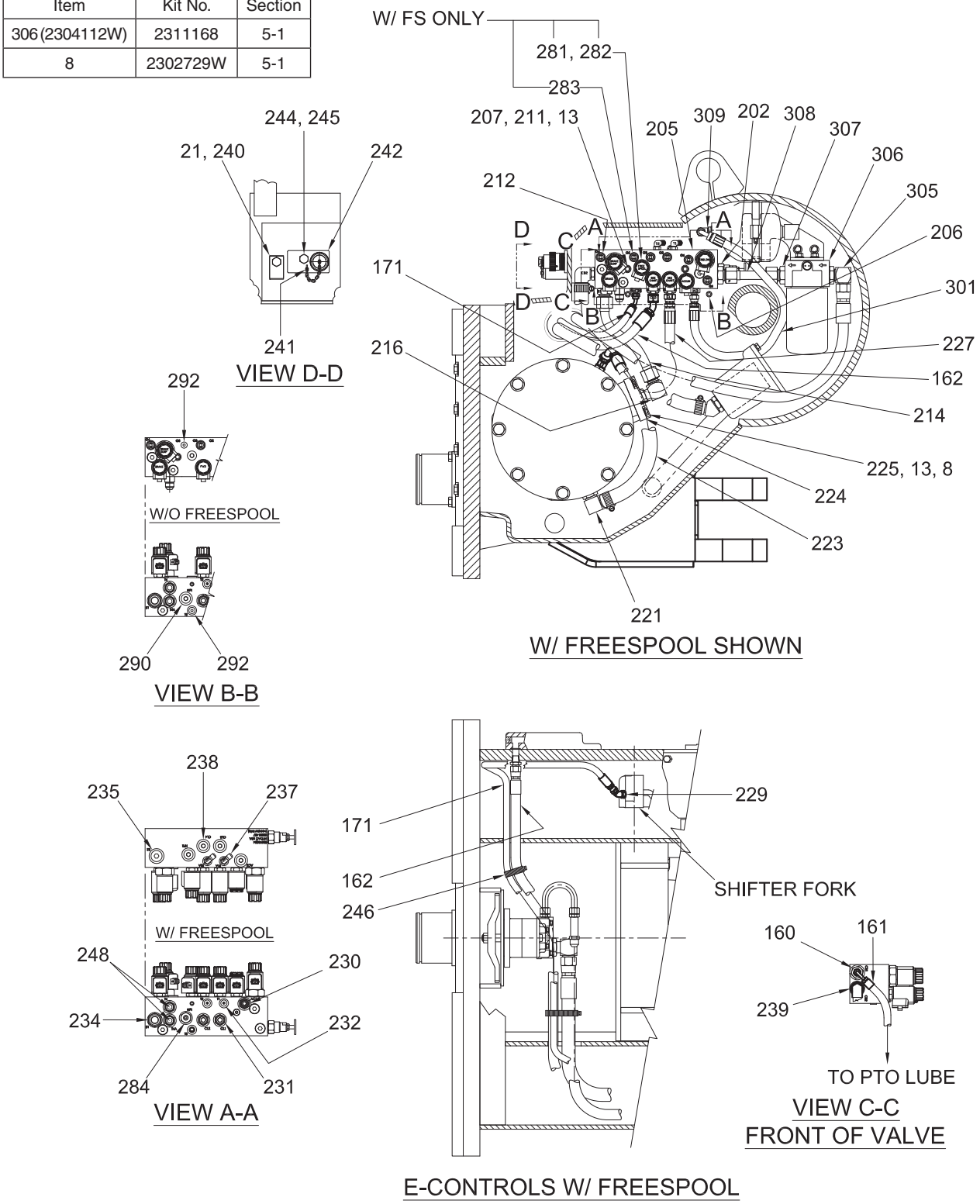
Item		Part No.	Description	Qty
28		16556W	Fitting	2
29		235691W	Fitting	4
30		181957W	Fitting, Hose	1
31		2304366W	Plate, Cover	1
32		16602W	Screw	1
33	*c	2304503W	Retainer, Connector	1
35		178403W	Capscrew	1
36		15158W	Washer	1
37		129563W	Clamp, Strap	1
38		2303901W	Harness, Internal (Not Shown)	1
39	*a	2307769W	Valve, Cartridge	1
40	*a	2307770W	Coil, Valve - 24V	1
41	*a	2304825W	Fitting	1
42	*a	222381W	Fitting	1
43	*b	235691W	Fitting	1
44	*b	222442W	Fitting	2
45	*b	2304877W	Plug - 2 Term (Not Shown)	1
46		17756W	Fitting	1
47		2305586W	Assembly, Hose	1
48		196022W	Gasket	1
49		15156W	Washer	5
50		1300780W	Screw, Flanged	8
51		2300936W	Cover	1
52		2300935W	Gasket	1
53		R16271	Accumulator, Hydraulic	1

*a Used on Winches With Freespool
*b Used on Winches Without Freespool
*c Use 236308W Loctite

Hydraulic Group, Electronic Controls

Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
Used on S/N AW6G-1453 thru S/N AW6G-1517
Page 1 of 2

Recommended Service Kit		
Item	Kit No.	Section
306 (2304112W)	2311168	5-1
8	2302729W	5-1



See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
Used on S/N AW6G-1453 thru S/N AW6G-1517
Page 2 of 2

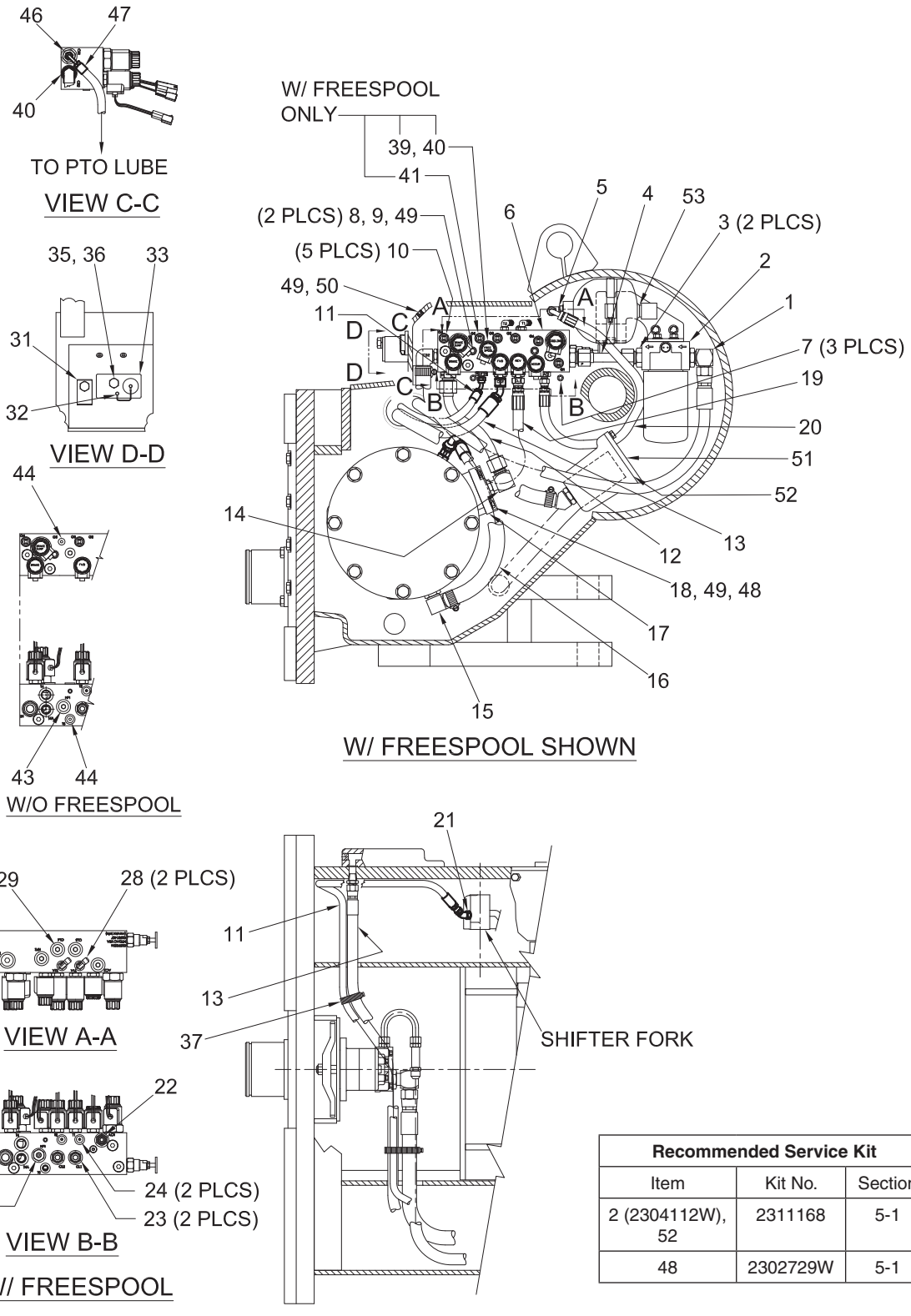
Item	Part No.	Description	Qty
8	196022W	Gasket	1
13	15156W	Washer	5
21	303946W	Gasket	1
160	17756W	Fitting	1
161	2305586W	Assembly, Hose	1
162	2310666	Assembly, Hose	1
171	2310667	Assembly, Hose	1
202	16543W	Fitting	1
205	2306547W	Assembly, Valve Manifold (3-138)	1
206	2305987W	Setscrew	3
207	18526W	Capscrew	2
211	18515W	Washer	2
212	2304825W	Fitting	5
214	2306739W	Assembly, Tube	1
216	222402W	Fitting	1
221	2305561W	Fitting	1
223	2305558W	Assembly, Hose	1
224	279392W	Block	1
225	16828W	Capscrew	2
227	2303739W	Assembly, Hose	1
229	16565W	Fitting	1
230	16745W	Fitting	1
231	16541W	Fitting	2
232	222442W	Fitting	2
234	142682W	Fitting	1
235	233693W	Fitting	2
237	16556W	Fitting	2
238	235691W	Fitting	4

Item		Part No.	Description	Qty
239		181957W	Fitting	1
240		2304366W	Plate, Cover	1
241		16602W	Screw	1
242	*c	2311807	Connector, Retainer	1
244		178403W	Capscrew	1
245		15158W	Washer	1
246		129563W	Clamp, Strap	1
248		2313404	Valve, Check	1
281	*a	2307769W	Valve, Cartridge	1
282	*a	2311558	Coil, Valve - 24V	1
283	*a	2304825W	Fitting	1
284	*a	222381W	Fitting	1
290	*b	235691W	Fitting	1
292	*b	222442W	Fitting	2
301		2302109W	Clamp	1
305		138811W	Fitting	1
306		2304111W	Assembly, Filter	1
		2304112W	. Element, Filter	1
		2304862W	. Switch, Pressure	1
		2305132W	. Head, Filter	1
307		16543W	Fitting	1
308		2306736W	Assembly, Tube - Inlet	1
309		110174W	Fitting	1

*a Used on Winches With Freespool
*b Used on Winches Without Freespool
*c Use 236308W Loctite

Hydraulic Group, Electronic Controls

Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
Used on S/N AW6G-1518 through S/N AW6G-1763
Page 1 of 2



E-CONTROLS W/ FREESPOOL

Recommended Service Kit		
Item	Kit No.	Section
2 (2304112W), 52	2311168	5-1
48	2302729W	5-1

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
Used on S/N AW6G-1518 through S/N AW6G-1763
Page 2 of 2

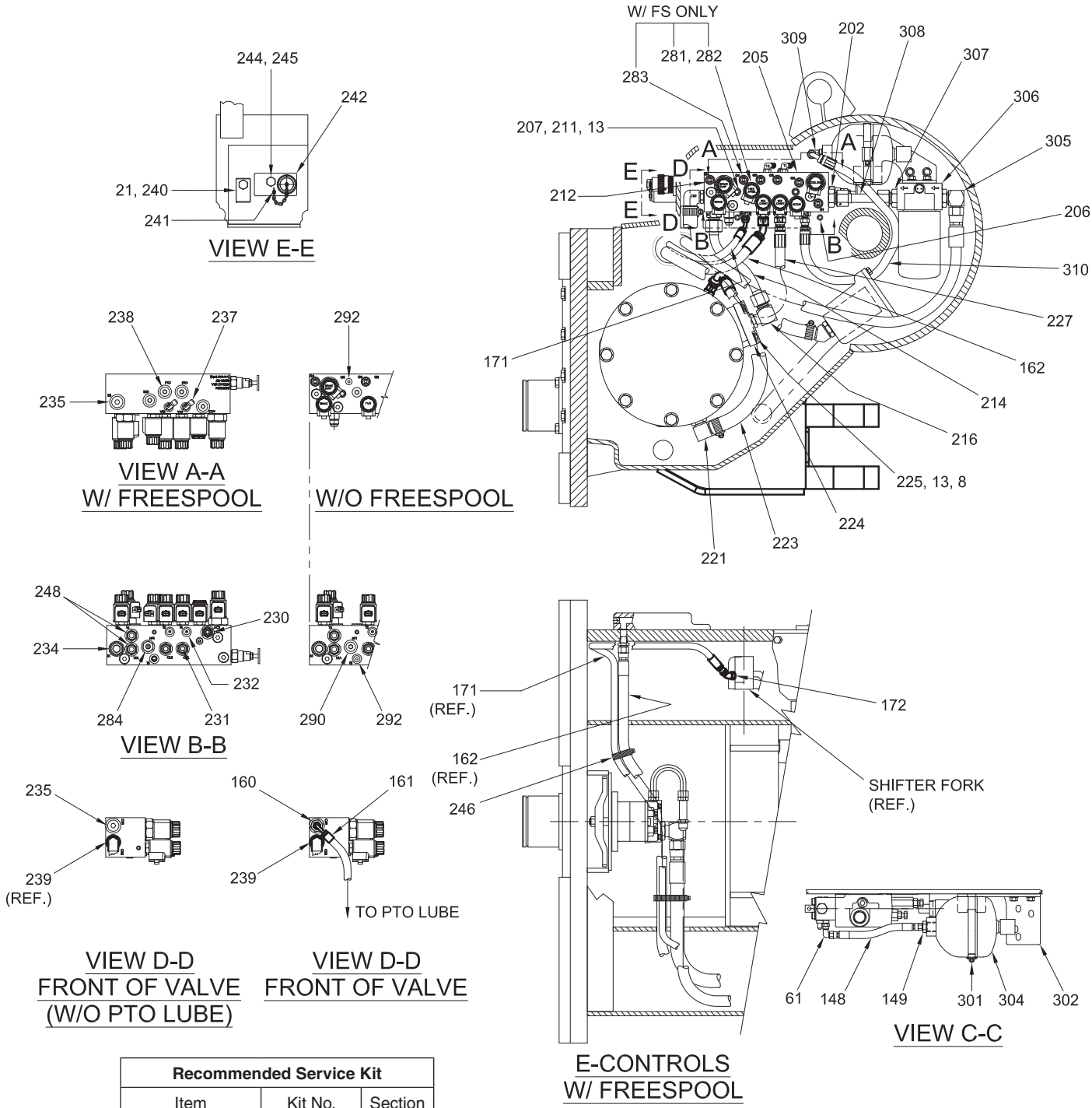
Item	Part No.	Description	Qty
1	138811W	Fitting	1
2	2304111W	Assembly, Filter	1
	2304112W	. Element, Filter	1
	2304862W	. Switch, Pressure	1
	2305132W	. Head, Filter	1
3	16543W	Fitting	2
4	2306736W	Assembly, Tube - Inlet	1
5	110174W	Fitting	1
6	2306547W	Assembly, Valve Manifold (3-138)	1
7	2305987W	Setscrew	3
8	18526W	Capscrew	2
9	18515W	Washer	2
10	2304825W	Fitting	5
11	2305560W	Assembly, Hose	1
12	2306739W	Assembly, Tube	1
13	2305559W	Assembly, Hose	1
14	222402W	Fitting	1
15	2305561W	Fitting, Hose	1
16	2305558W	Assembly, Hose	1
17	279392W	Block	1
18	16828W	Capscrew	2
19	2303739W	Assembly, Hose	1
20	2305407W	Assembly, Hose	1
21	16565W	Fitting	1
22	16745W	Fitting	1
23	16541W	Fitting	2
24	222442W	Fitting	2
25	142682W	Fitting	1
26	233693W	Fitting	2

Item		Part No.	Description	Qty
28		16556W	Fitting	2
29		235691W	Fitting	4
30		181957W	Fitting, Hose	1
31		2304366W	Plate, Cover	1
32		16602W	Screw	1
33	*c	2304503W	Retainer, Connector	1
35		178403W	Capscrew	1
36		15158W	Washer	1
37		129563W	Clamp, Strap	1
38		2310627	Harness, Internal (Not Shown)	1
39	*a	2307769W	Valve, Cartridge	1
40	*a	2307770W	Coil, Valve - 24V	1
41	*a	2304825W	Fitting	1
42	*a	222381W	Fitting	1
43	*b	235691W	Fitting	1
44	*b	222442W	Fitting	2
45	*b	2304877W	Plug - 2 Term (Not Shown)	1
46		17756W	Fitting	1
47		2305586W	Assembly, Hose	1
48		196022W	Gasket	1
49		15156W	Washer	5
50		1300780W	Screw, Flanged	8
51		2300936W	Cover	1
52		2300935W	Gasket	1
53		R16271	Accumulator, Hydraulic	1

*a Used on Winches With Freespool
*b Used on Winches Without Freespool
*c Use 236308W Loctite

Hydraulic Group, Electronic Controls

Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
Used on S/N AW6G-1764 through S/N AW6G-2018
Page 1 of 2

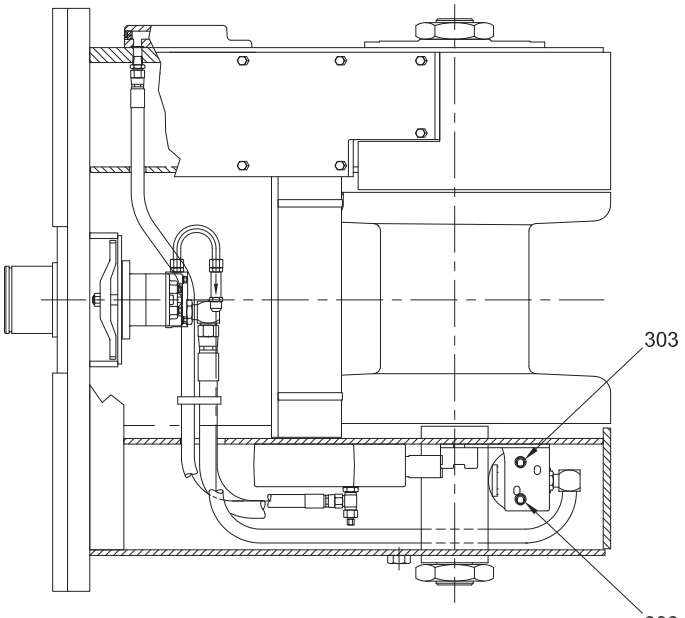


Recommended Service Kit		
Item	Kit No.	Section
306 (2304112W)	2311168	5-1
8, 21	2302729W	5-1

See Internal Wiring for E-Controls Electrical Connections on Pages 3-130 thru 3-134.

Hydraulic Group, Electronic Controls

Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
Used on S/N AW6G-1764 through S/N AW6G-2018



TOP VIEW

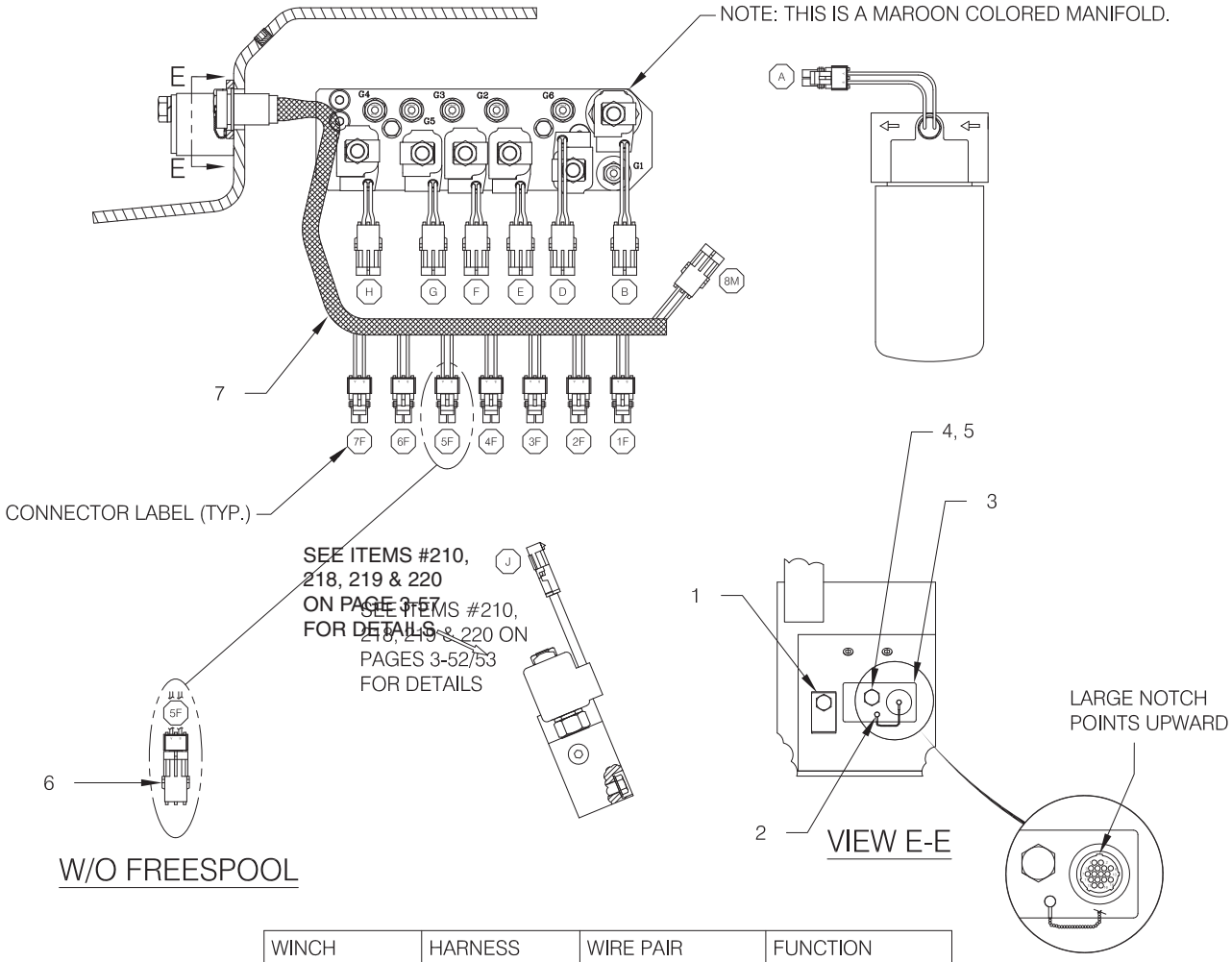
Item	Part No.	Description	Qty
8	196022W	Gasket	1
13	15156W	Washer	2
21	303946W	Gasket	1
61	16987W	Fitting	1
148	383982W	Assembly, Hose	1
149	222381W	Fitting	1
160	17756W	Fitting	1
161	2305586W	Assembly, Hose	1
162	2310666	Assembly, Hose	1
171	2310667	Assembly, Hose	1
172	16565W	Fitting	1
202	16543W	Fitting	1
205	2311887	Assembly, Manifold Valve (3-139)	1
206	2305987W	Setscrew	3
207	18526W	Capscrew	2
211	18515W	Washer	2
212	2304825W	Fitting, QC Test	5
214	2306739W	Assembly, Tube	1
216	222402W	Fitting	1
221	2305561W	Fitting	1
223	2305558W	Assembly, Hose	1
224	279392W	Block	1
225	16828W	Capscrew	2
227	2303739W	Assembly, Hose	1
230	16745W	Fitting	1
231	16541W	Fitting	2
232	222442W	Fitting	2
234	142682W	Fitting	1
235	233693W	Fitting	2
237	16556W	Fitting	2
238	235691W	Fitting	4
239	181957W	Fitting	1

Item		Part No.	Description	Qty
240		2304366W	Plate, Cover	1
241		16602W	Screw	1
242	*a	2311807	Retainer, Connector	1
244		178403W	Capscrew	1
245		15158W	Washer	1
246		129563W	Clamp, Strap	1
247		2311443	Harness, Internal (Not Shown)	1
248		2313404	Valve, Check	2
281	*b	2307769W	Valve, Cartridge	1
282	*b	2311558	Coil, Valve - 24V	1
283	*b	2304825W	Fitting, QC Test	1
284	*b	222381W	Fitting	1
290	*c	235691W	Fitting	1
292	*c	222442W	Fitting	2
293		2312259	Plug, 2-Term (Not Shown)	1
301		2302109W	Clamp	1
302		2305114W	Bracket, Mounting	1
303		1300780W	Screw, Flanged	2
304		R16271	Accumulator, Hydraulic	1
305		138811W	Fitting	1
306		2304111W	Assembly, Filter	1
		2304112W	. Element, Filter	1
		2304862W	. Switch, Pressure	1
		2305132W	. Head, Filter	1
307		16543W	Fitting	1
308		2306736W	Assembly, Tube - Inlet	1
309		110174W	Fitting	1
310		2305407W	Assembly, Hose	1

*a Use 236308W Loctite
*b Used on Winches With Freespool
*c Used on Winches Without Freespool

Internal Wiring, Electronic Controls

Last Used on S/N AW6G-1287
Except S/N AW6G-1271



	WINCH CONNECTION	HARNESS CONNECTOR	WIRE PAIR COLORS	FUNCTION
	A	8M	WHI & LTGRN	PR. SWITCH
	B	1F	BLK & GRAY	COOLING
	D	2F	BLK & GRAY	ACCUMULATOR
	G	5F	ORG & BLK	W/ FREESPOOL
	(PLUGGED)	5F	ORG & BLK	W/O FS
	H	6F	TAN & PUR	BRAKE
PTO ROT.	J	7F	PINK & BLK	BRAKE DUMP
CCW	E	3F	YEL & DKBLU	FORWARD
	F	4F	BRN & YEL	REVERSE
CW	F	4F	BRN & YEL	REVERSE
	E	3F	YEL & DKBLU	FORWARD

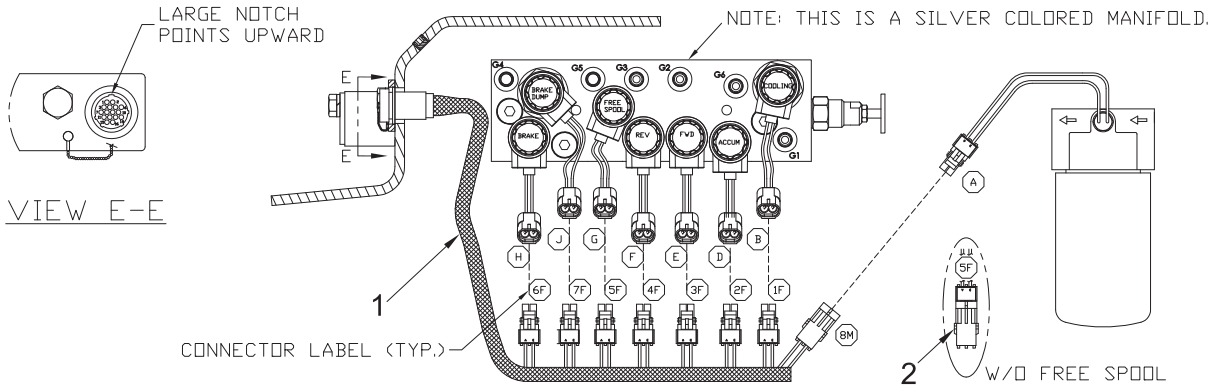
Item	Part No.	Description	Qty
1	2304366W	Plate, Cover	1
2	16602W	Screw	1
3	2304503W	Retainer, Connector	1
4	178403W	Capscrew	1
5	15158W	Washer	1

Item		Part No.	Description	Qty
6	*a	2304877W	Plug	1
7		2303901W	Harness, Internal	1

*a Used on Winches without Freespool

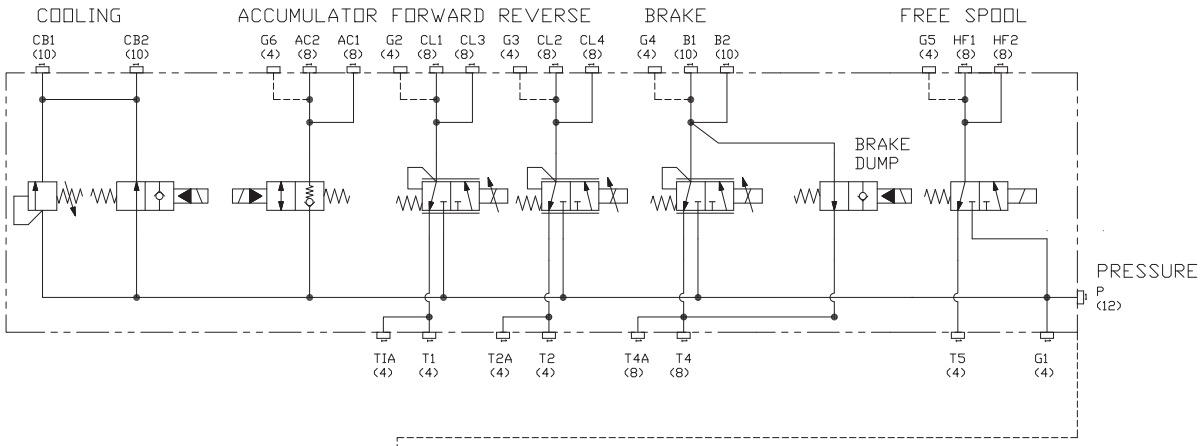
Internal Wiring, Electronic Controls

Used only on S/N AW6G-1271,
and on S/N AW6G-1288 thru S/N AW6G-1517

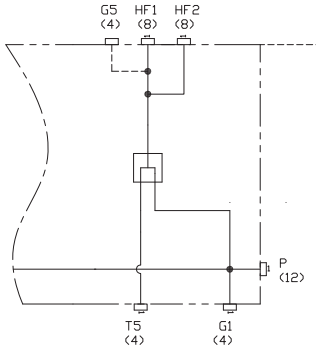


E-CONTROLS ELECTRONIC CONNECTIONS

WITH FREESPOOL



WITHOUT FREESPOOL



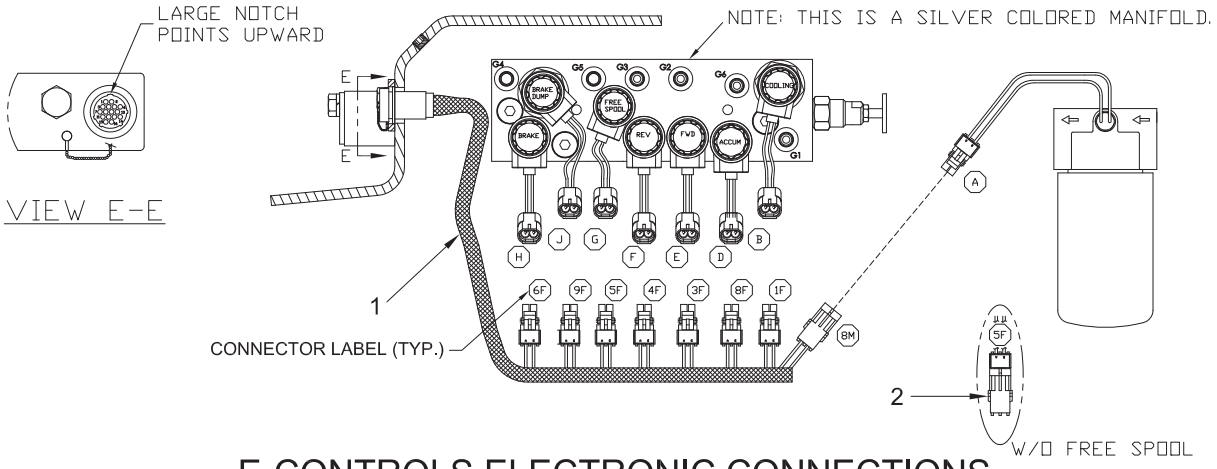
	WINCH CONNECTION	HARNESS CONNECTOR	WIRE PAIR COLORS	FUNCTION
	A	8M	WHI & LTGRN	PR. SWITCH
	B	1F	BLK & GRAY	COOLING
	D	2F	BLK & GRAY	ACCUMULATOR
	G	5F	ORG & BLK	W/ FREESPOOL
	(PLUGGED)	5F	ORG & BLK	W/O FS
	H	6F	TAN & PUR	BRAKE
PTO ROT.	J	7F	PINK & BLK	BRAKE DUMP
CCW	E	3F	YEL & DKBLU	FORWARD
	F	4F	BRN & YEL	REVERSE
CW	F	4F	BRN & YEL	REVERSE
	E	3F	YEL & DKBLU	FORWARD

HYDRAULIC SCHEMATIC

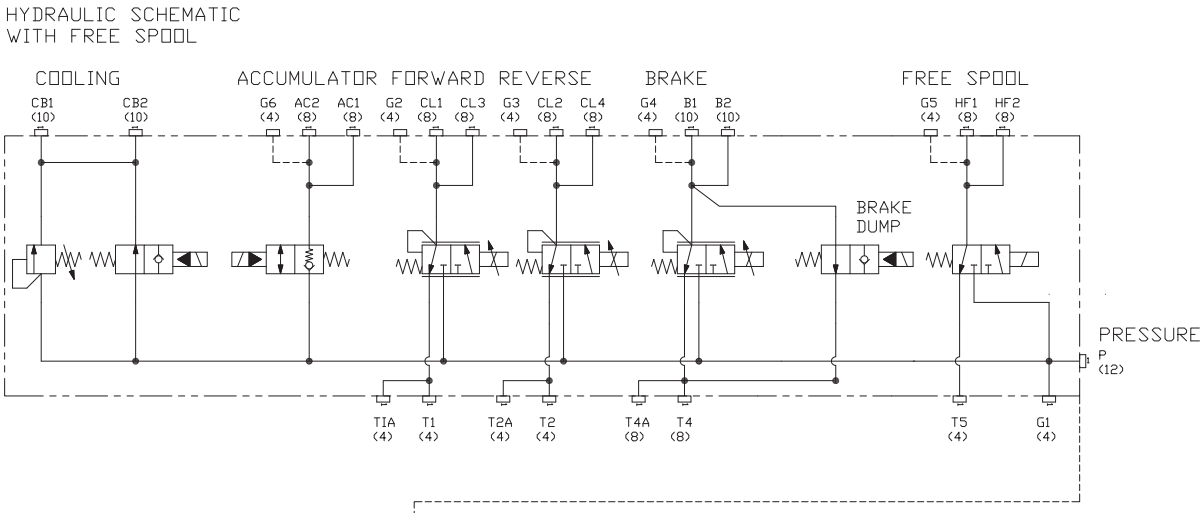
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2303901W	Harness, Internal	1	2	2304877W	Plug, 2-Term	1

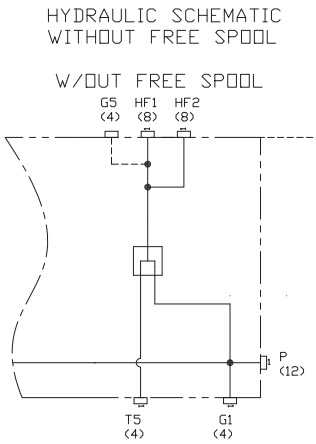
Internal Wiring, Electronic Controls

Used on S/N AW6G-1518 thru S/N AW6G-1763



E-CONTROLS ELECTRONIC CONNECTIONS





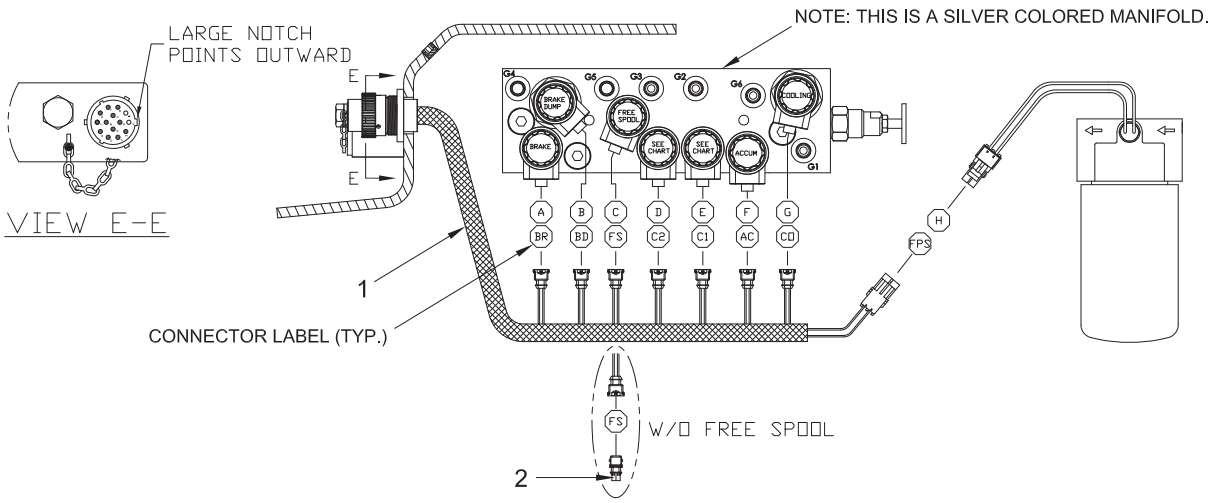
	WINCH CONNECTION	HARNESS CONNECTOR	WIRE PAIR COLORS	FUNCTION
	A	8M	WHI & LTGRN	PR. SWITCH
	B	1F	BLK & GRAY	COOLING
	J	8F	BLK & GRAY	BRAKE DUMP
	G	5F	ORG & BLK	W/ FREESPOOL
	(PLUGGED)	5F	ORG & BLK	W/O FS
	H	6F	TAN & PUR	BRAKE
PTO ROT.	D	9F	PINK & BLK	ACCUMULATOR
CCW	E	3F	YEL & DKBLU	FORWARD
	F	4F	BRN & YEL	REVERSE
CW	F	4F	BRN & YEL	REVERSE
	E	3F	YEL & DKBLU	FORWARD

HYDRAULIC SCHEMATIC

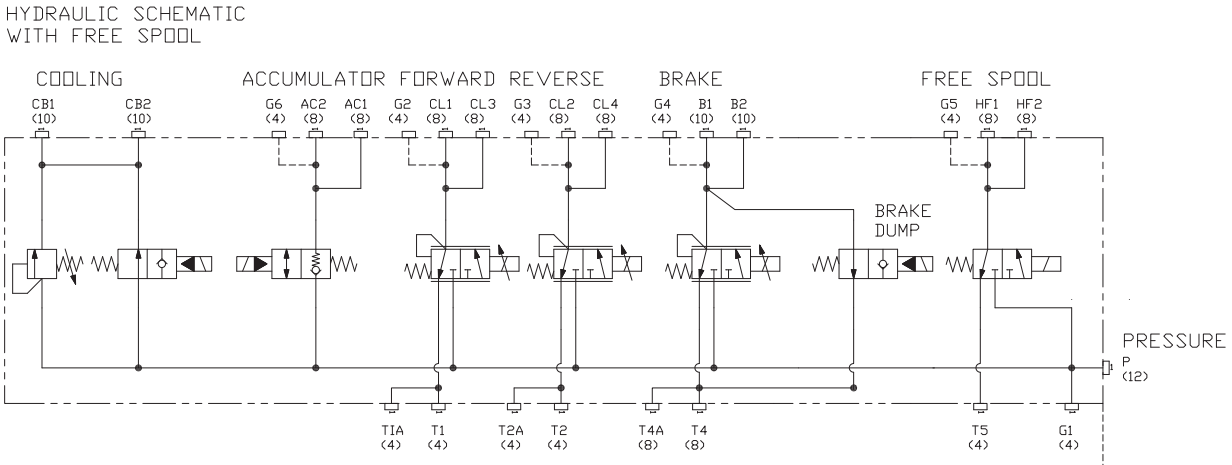
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2310627	Harness, Internal	1	2	2304877W	Plug, 2-Term	1

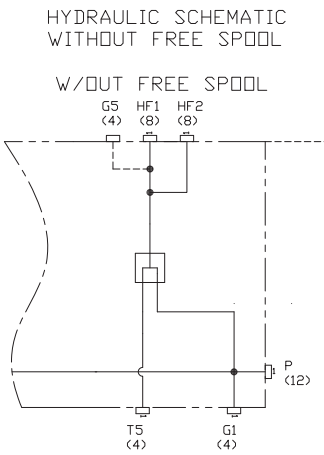
Internal Wiring, Electronic Controls

Used on S/N AW6G-1764 through S/N AW6G-2018



E-CONTROLS ELECTRONIC CONNECTIONS





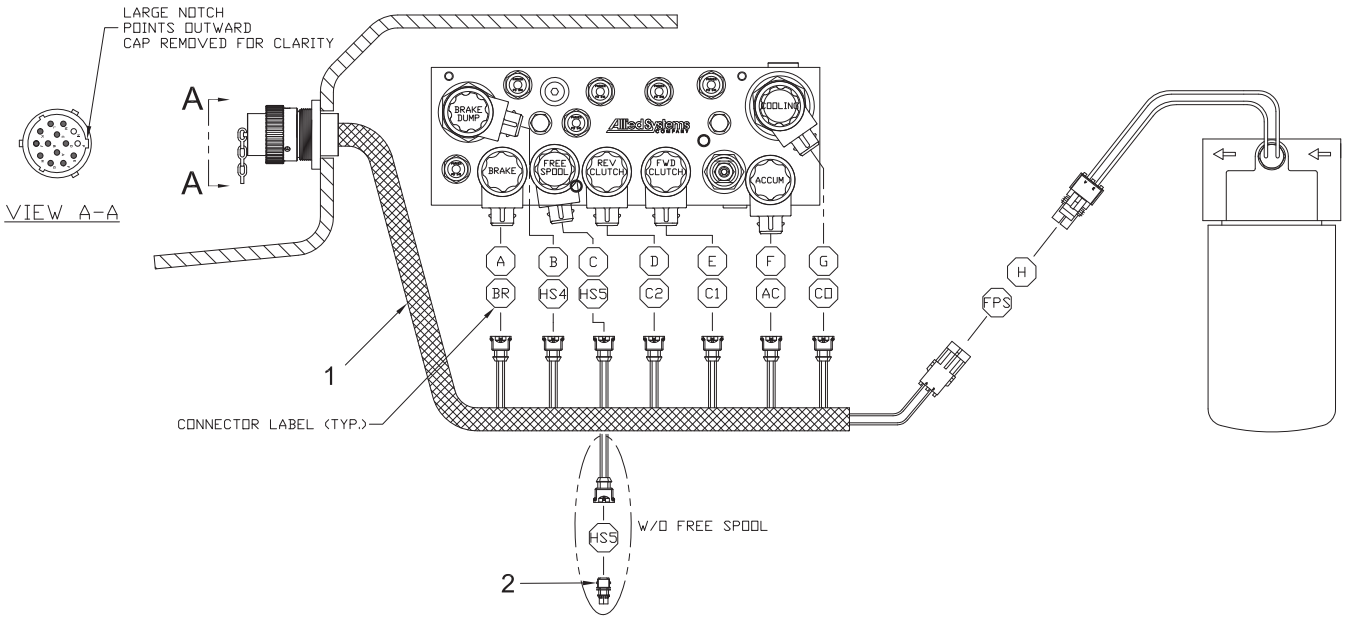
	WINCH CONNECTION	HARNESS CONNECTOR	WIRE PAIR COLORS	FUNCTION
	A	BR	TAN & PUR	BRAKE
	B	BD	BLK & GRAY	BRAKE DUMP
	C	FS	ORG & BLK	W/ FREESPOOL
	(PLUGGED)	FS	ORG & BLK	W/O FS
	F	AC	PINK & BLK	ACCUMULATOR
	G	CO	BLK & GRAY	COOLING
PTO ROT.	H	FPS	WHI & LTGRN	PR. SWITCH
CCW	E	C1	YEL & DKBLU	FORWARD
	D	C2	BRN & YEL	REVERSE
CW	D	C1	BRN & YEL	REVERSE
	E	C2	YEL & DKBLU	FORWARD

HYDRAULIC SCHEMATIC

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2311443	Harness, Internal	1	2	2312259	Plug, 2-Term	1

Internal Wiring, Electronic Controls

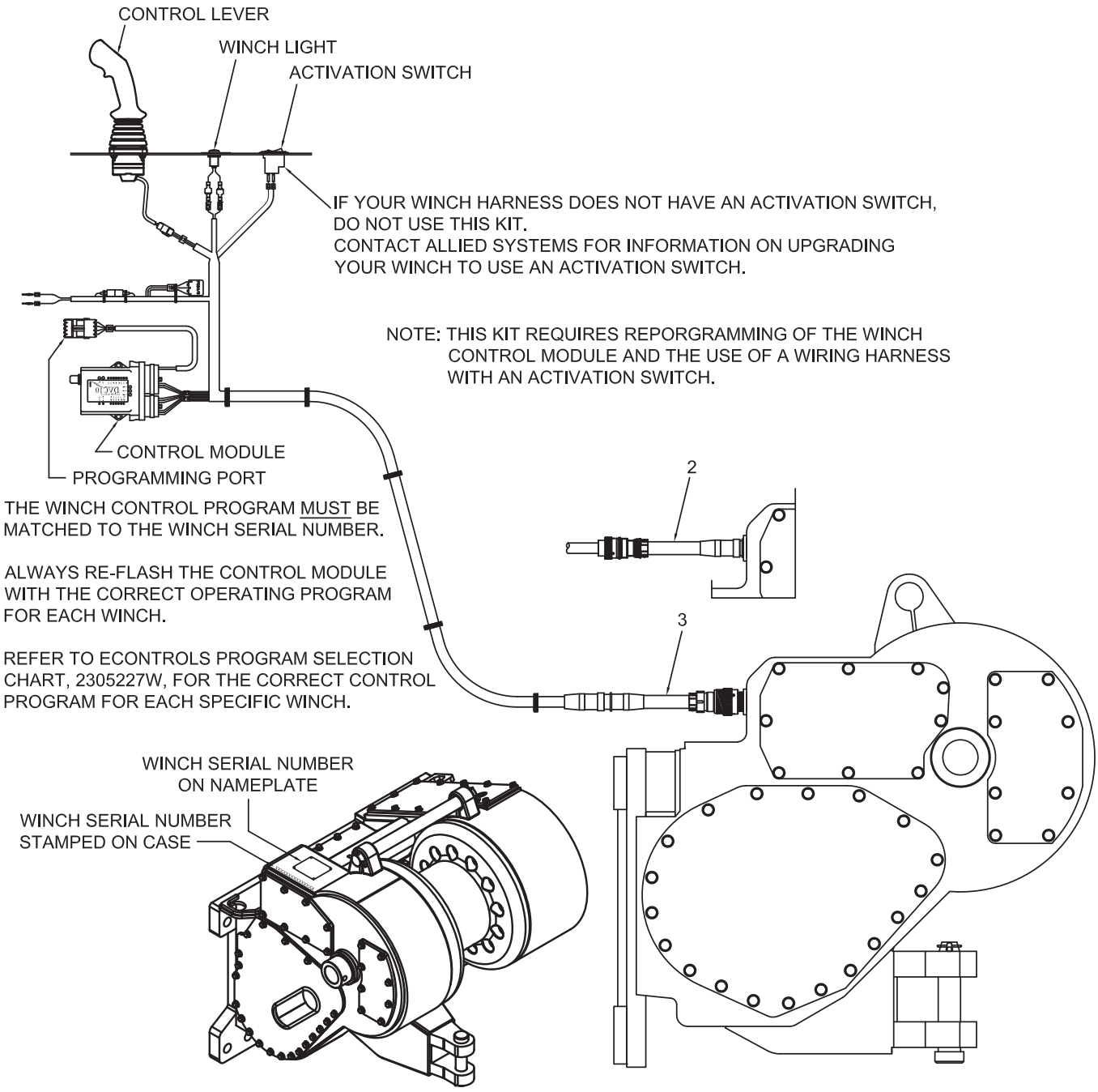
First Used on S/N AW6G-2019



	WINCH CONNECTION	HARNESS CONNECTOR	WIRE PAIR COLORS	FUNCTION
	A	BR	TAN & PUR	BRAKE
	B	HS4	BLK & GRAY	BRAKE DUMP
	C	HS5	ORG & BLK	W/ FREESPOOL
	(PLUGGED)	HS5	ORG & BLK	W/O FS
	F	AC	PINK & BLK	ACCUMULATOR
	G	CO	BLK & GRAY	COOLING
PTO ROT.	H	FPS	WHI & LTGRN	PR. SWITCH
CCW	E	C1	YEL & DKBLU	FORWARD
	D	C2	BRN & YEL	REVERSE
CW	D	C1	BRN & YEL	REVERSE
	E	C2	YEL & DKBLU	FORWARD

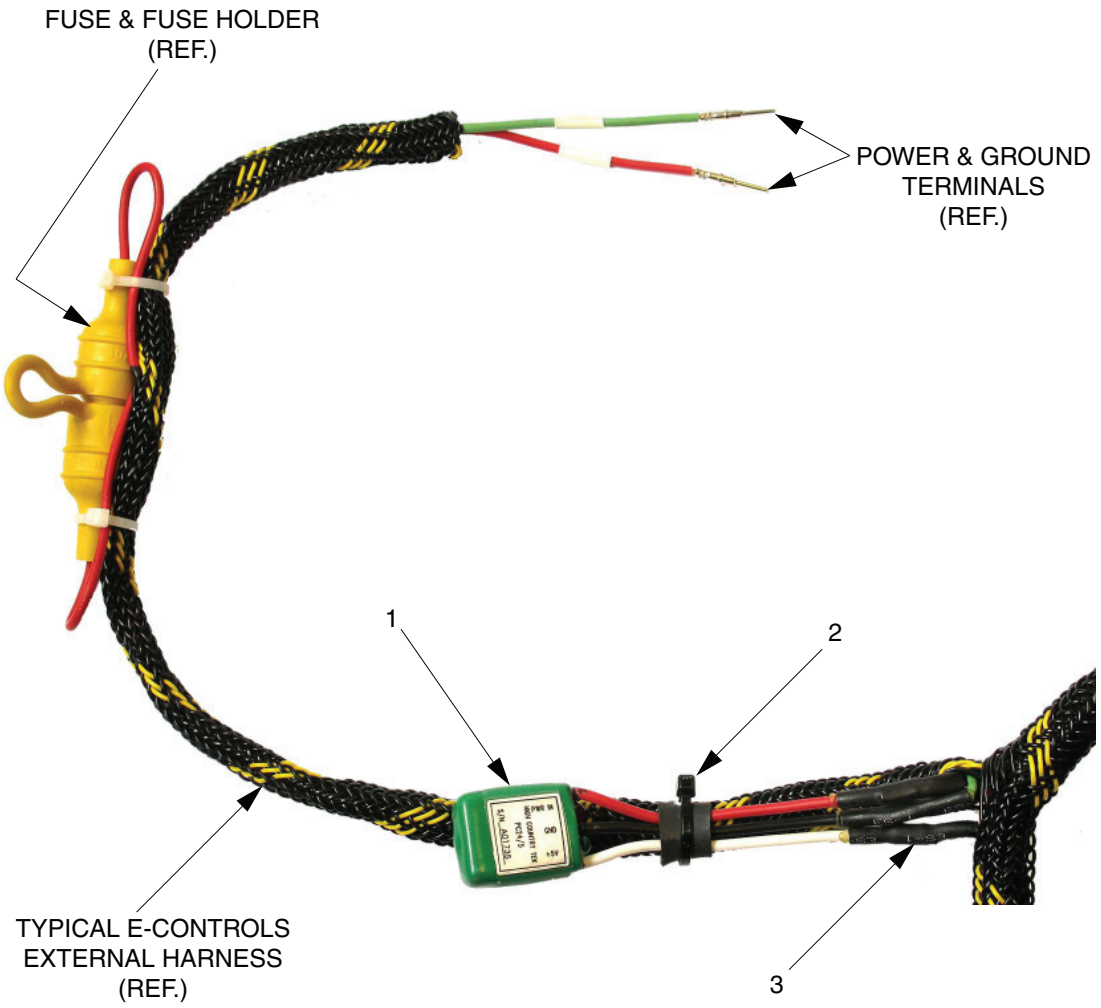
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	2311443	Harness, Internal	1	2	2312259	Plug, Counter	1

External Adapter Cable Kit, Electronic Controls



Item	Part No.	Description	Qty
	2315253	**Kit, E-Control Adapter Cable**	**1**
1	2315250	. Drawing, Installation	1
2	2315251	. Adapter, AMP Winch to Deutsch Harness Cable	1
3	2315252	. Adapter, Deutsch Winch to AMP Harness Cable	1
4	2305227W	. Chart, E-Controls & ECM Program	1

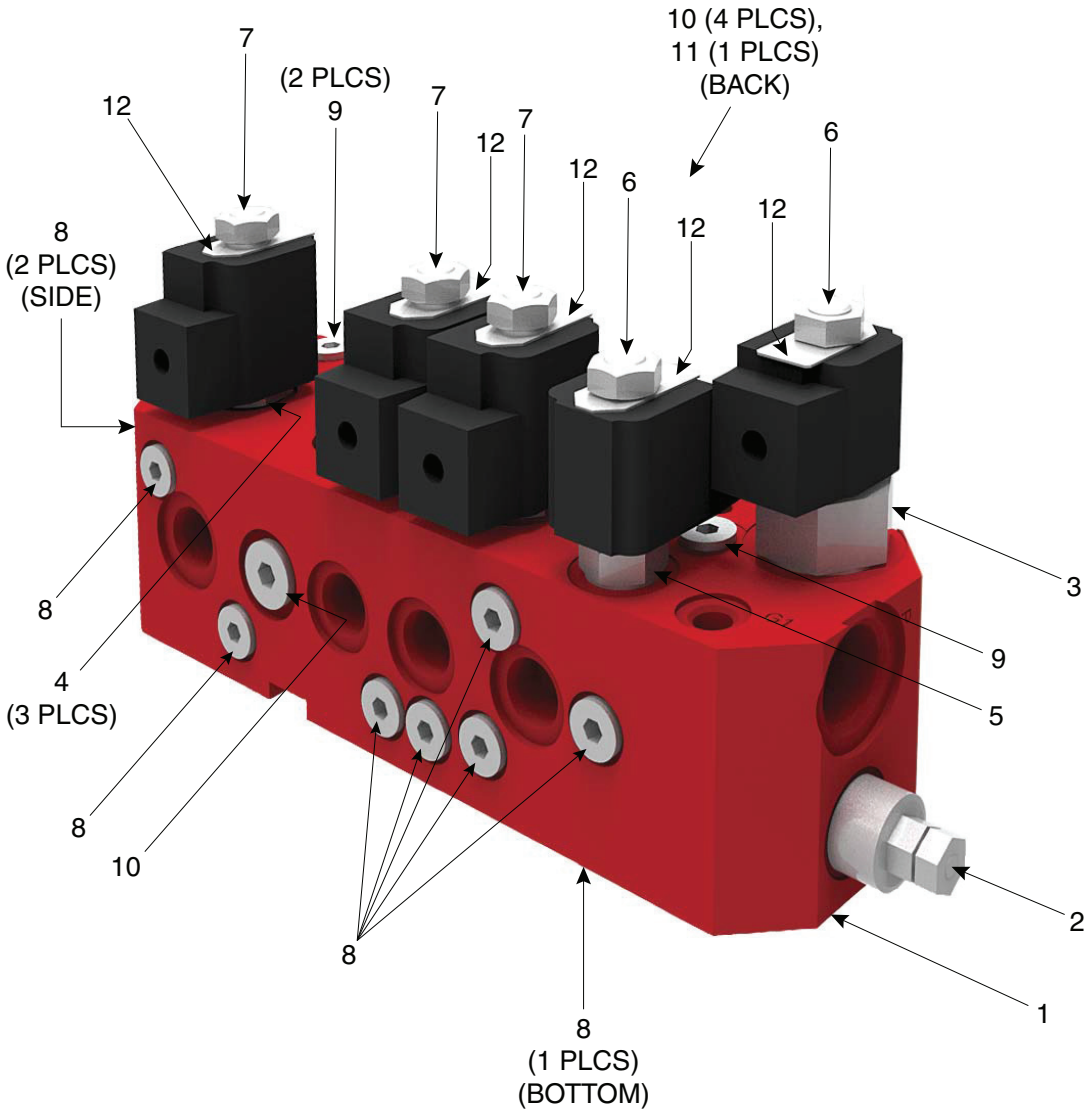
External Wiring Harness Repair Kit, Electronic Controls



Item	Part No.	Description	Qty
	2313717	**Repair Kit, eControls Harness**	
		Voltage Converter	**1**
1	2304349W	. Converter, 24-5DC	1
2	242601	. Tie, Cable	1
3	236713	. Tube, Heat-Shrink	6 in.
4	2313699	. Instructions, Installation(Not Shown)	1

Valve Manifold Assembly, Electronic Controls

Last Used on AW6G-1287 and Below
(Except S/N AW6G-1271)

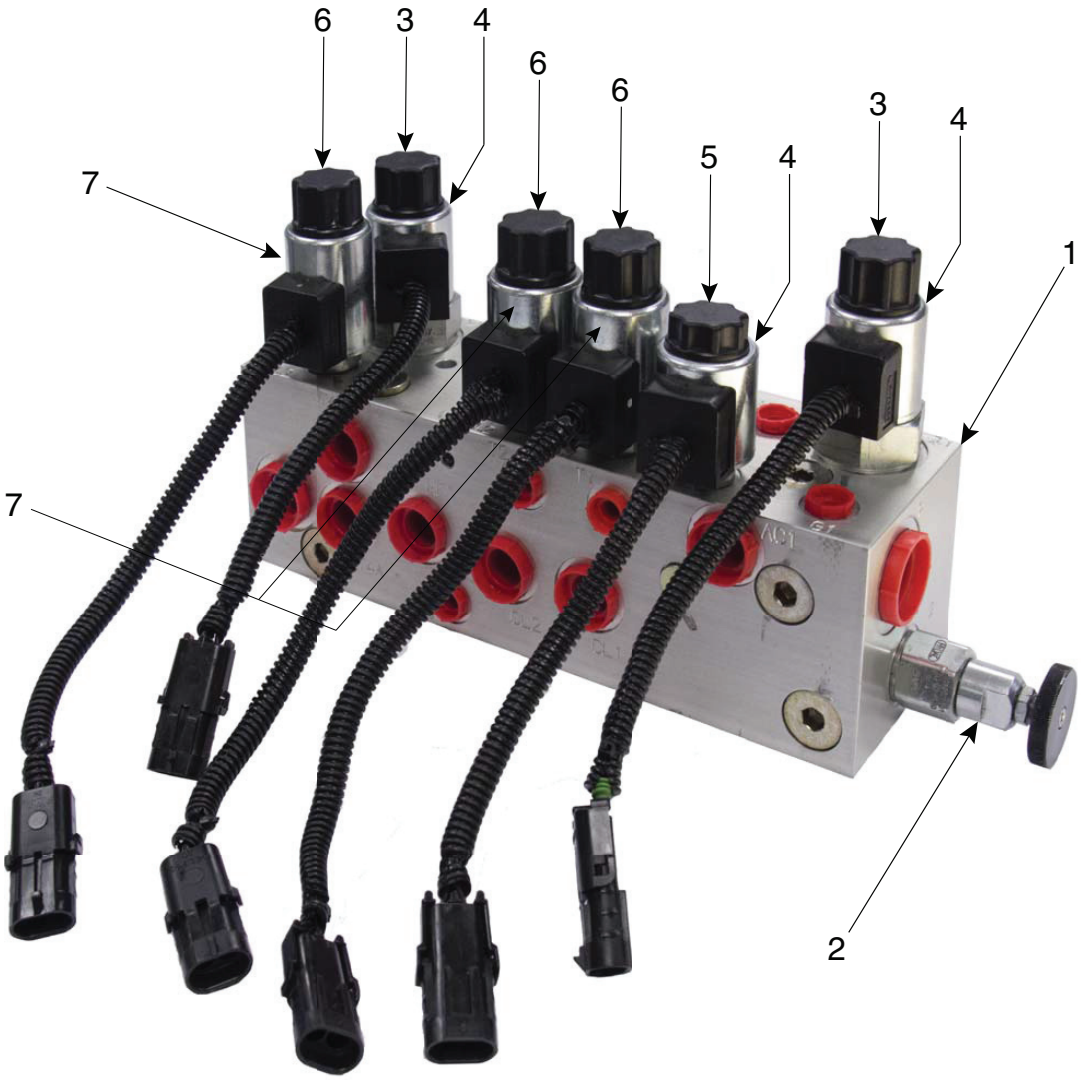


Item	Part No.	Description	Qty
	2303889W	**Assembly, Valve Manifold**	**1**
1	NSS	. Block (Red Color)	1
2	2300308W	. Valve, Relief	1
	16484W	. . O-Ring	1
	265787W	. . O-Ring	1
3	2304840W	. Valve, Solenoid	1
	2304971W	. . Kit, Seal	1
4	2304841W	. Valve, Proportional	3
	R15015	. . Kit, Seal	1
5	2304842W	. Valve, Solenoid	1
	R15012	. . Kit, Seal	1

Item	Part No.	Description	Qty
6	R15006	. Coil, 24V DC	2
7	R15005	. Coil, 24V DC	3
8	222442W	. Plug	10
9	222443W	. Plug	3
10	235691W	. Plug	5
11	233693W	. Plug	1
12	2304845W	. Washer, Tab	5

Valve Manifold Assembly, Electronic Controls

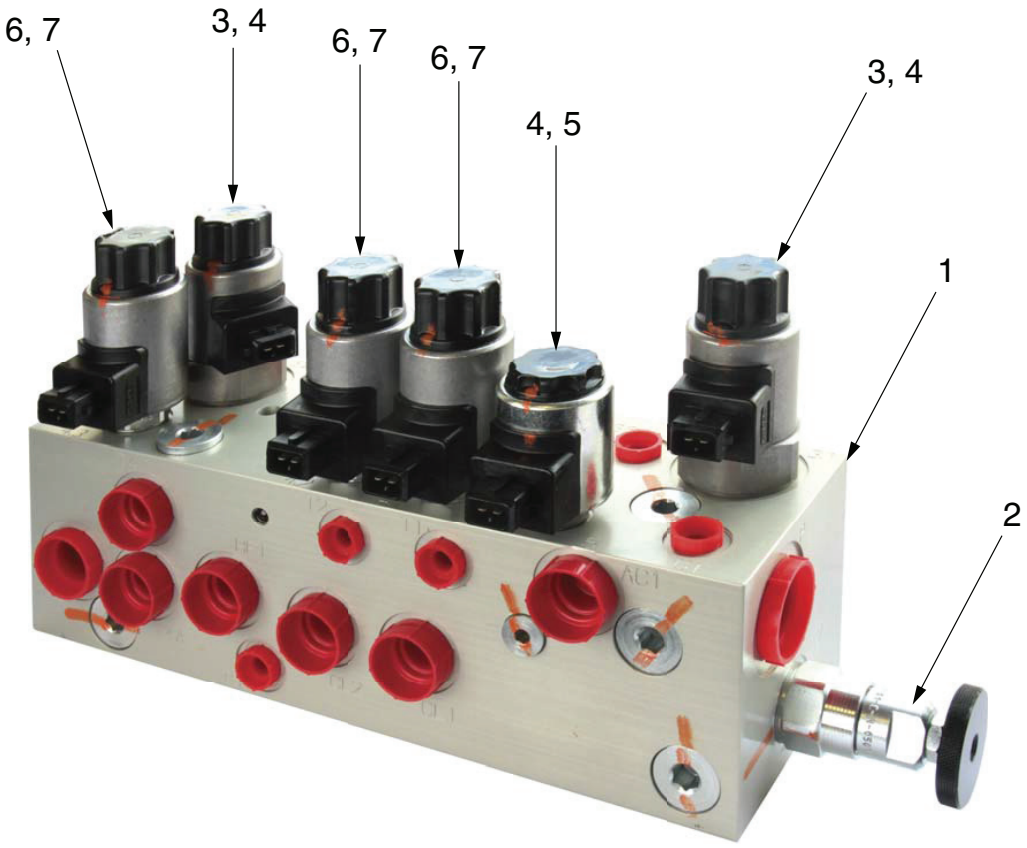
Used Only on S/N AW6G-1271;
Used on S/N AW6G-1288 through S/N AW6G-1763



Item	Part No.	Description	Qty
	2306547W	**Assembly, Valve Manifold**	**1**
1	NSS	. Block	1
2	2310255	. Valve, Relief	1
	2310260	. . Kit, Seal	1
3	2310252	. Valve, Cartridge	2
	2310258	. . Kit, Seal	1
4	2307770W	. Coil, Valve - 24 VDC	3
	2310259	. . Kit, Seal	1
5	2310253	. Valve, Cartridge	1
	2310259	. . Kit, Seal	1
6	2310254	. Valve, Proportional Valve	3
	2310261	. . Kit, Seal	1
7	2310256	. Coil, Proportional Valve - 24 VDC	3

Valve Assembly, Electronic Controls

Used on S/N AW6G-1764 through S/N AW6G-2018

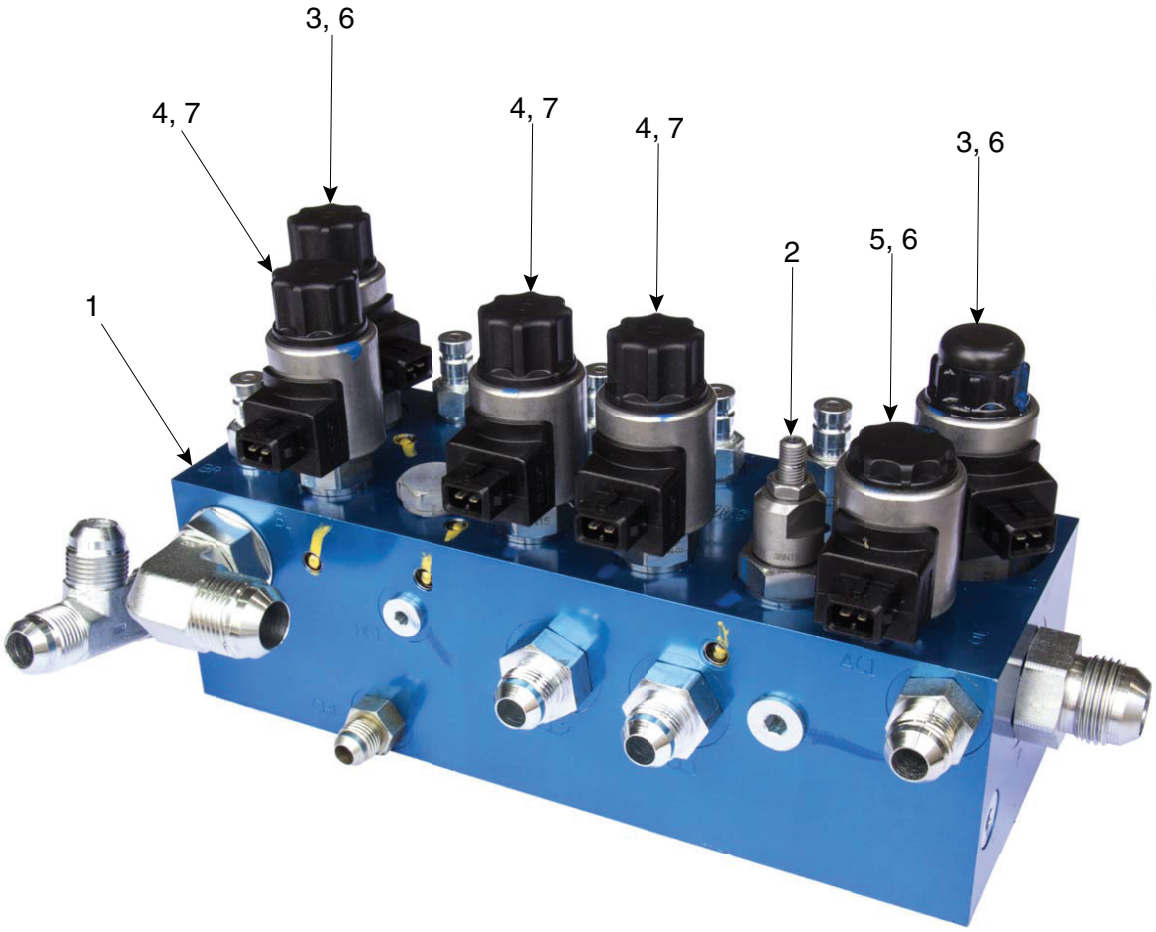


Item	Part No.	Description	Qty
	2311887	**Assembly, Valve**	**1**
1	NSS	. Block (Silver Color)	1
2	2310255	. Valve, Relief	1
	2310260	. . Kit, Seal	1
3	2310252	. Valve, Cartridge	2
	2310258	. . Kit, Seal	1
4	2311558	. Coil, Valve, 24 VDC	3
5	2310253	. Valve, Cartridge	1
6	2310254	. Valve, Proportional	3
7	2314908	. Coil, Proportional Valve, 24 VDC	3

Valve Assembly, Electronic Controls

Non-FREESPOOL

First Used on S/N AW6G-2019

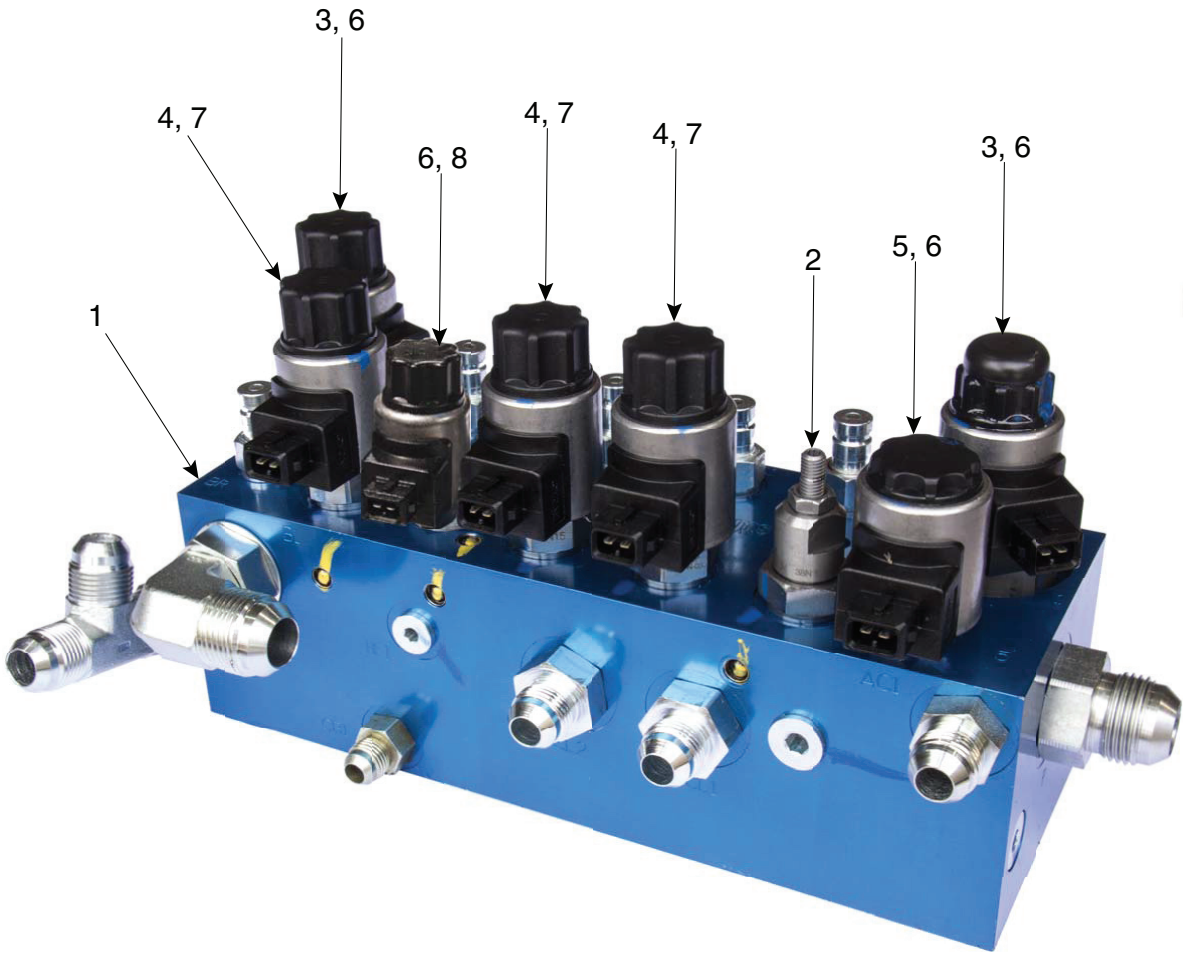


Item	Part No.	Description	Qty
	2315717	**Assembly, Valve Manifold**	**1**
1	NSS	. Block (Blue Color)	1
2	2315807	. Valve, Relief	1
	2310260	. . Kit, Seal	1
3	2310252	. Valve, Cartridge	2
	2310258	. . Kit, Seal	1
4	2315808	. Valve, Proportional	3
	254396	. . Kit, Seal	1
5	2310253	. Valve, Cartridge	1
	254400	. . Kit, Seal	1
6	2311558	. Coil, 24 VDC Valve	3
7	2315811	. Coil, 24 VDC Proportional Valve	3

Valve Assembly, Electronic Controls

FREESPOOL

First Used on S/N AW6G-2019



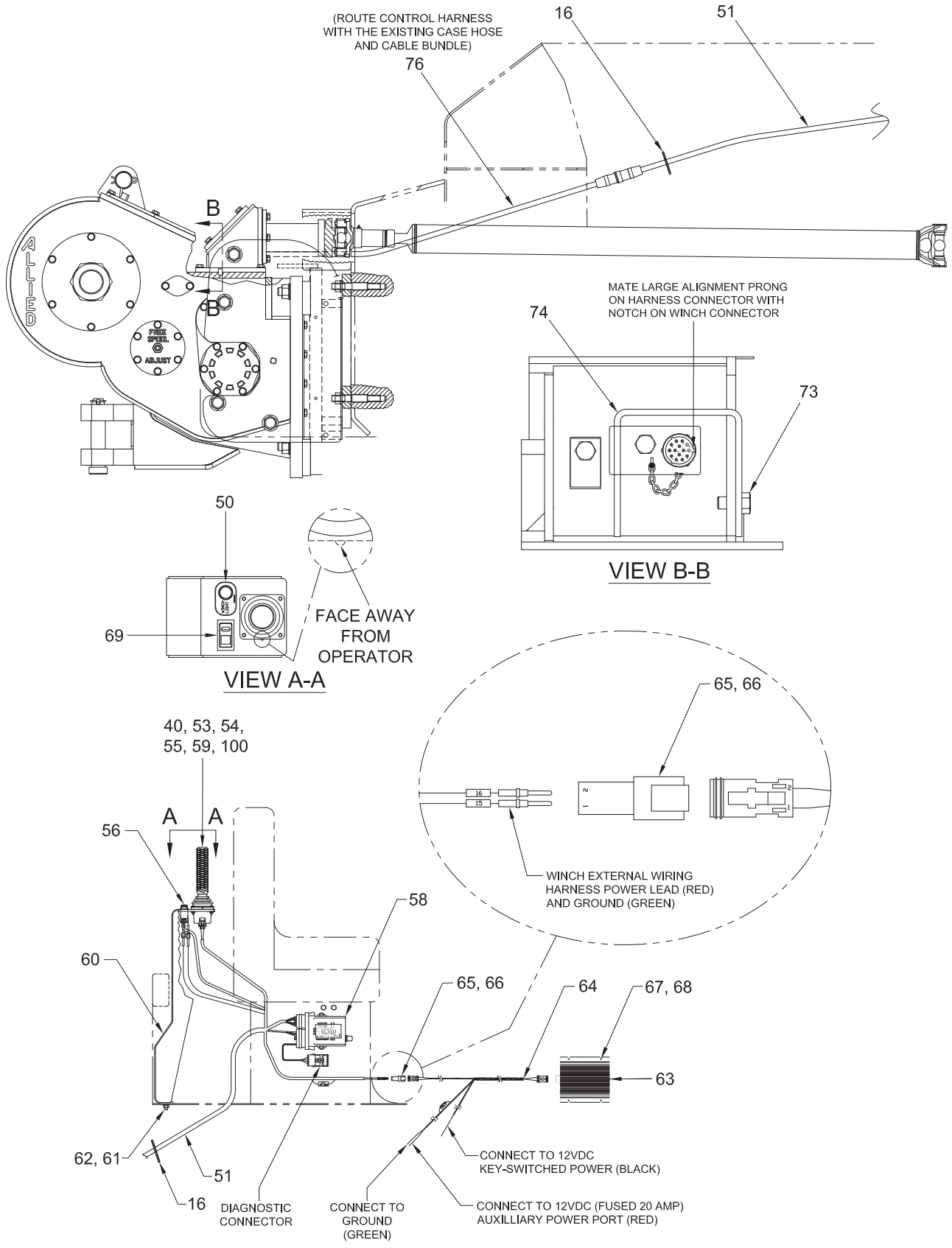
Item	Part No.	Description	Qty
	2315945	**Assembly, Valve Manifold**	**1**
1	NSS	. Block (Blue Color)	1
2	2315807	. Valve, Relief	1
	2310260	. . Kit, Seal	1
3	2310252	. Valve, Cartridge	2
	2310258	. . Kit, Seal	1
4	2315808	. Valve, Proportional	3
	254396	. . Kit, Seal	1
5	2310253	. Valve, Cartridge	1
	254400	. . Kit, Seal	1
6	2311558	. Coil, 24 VDC Valve	4
7	2315811	. Coil, 24 VDC Proportional Valve	3
8	2307769W	. Valve, Cartridge	1
	2504253	. . Kit, Seal	1

Handling Gear, Electronic Controls

Case Quadtrac (R39)

Used on S/N AW6G-1636 thru AW6G-1951

Page 1 of 2



Handling Gear, Electronic Controls

Case Quadtrac (R39)
Used on S/N AW6G-1636 thru AW6G-1951
Page 2 of 2

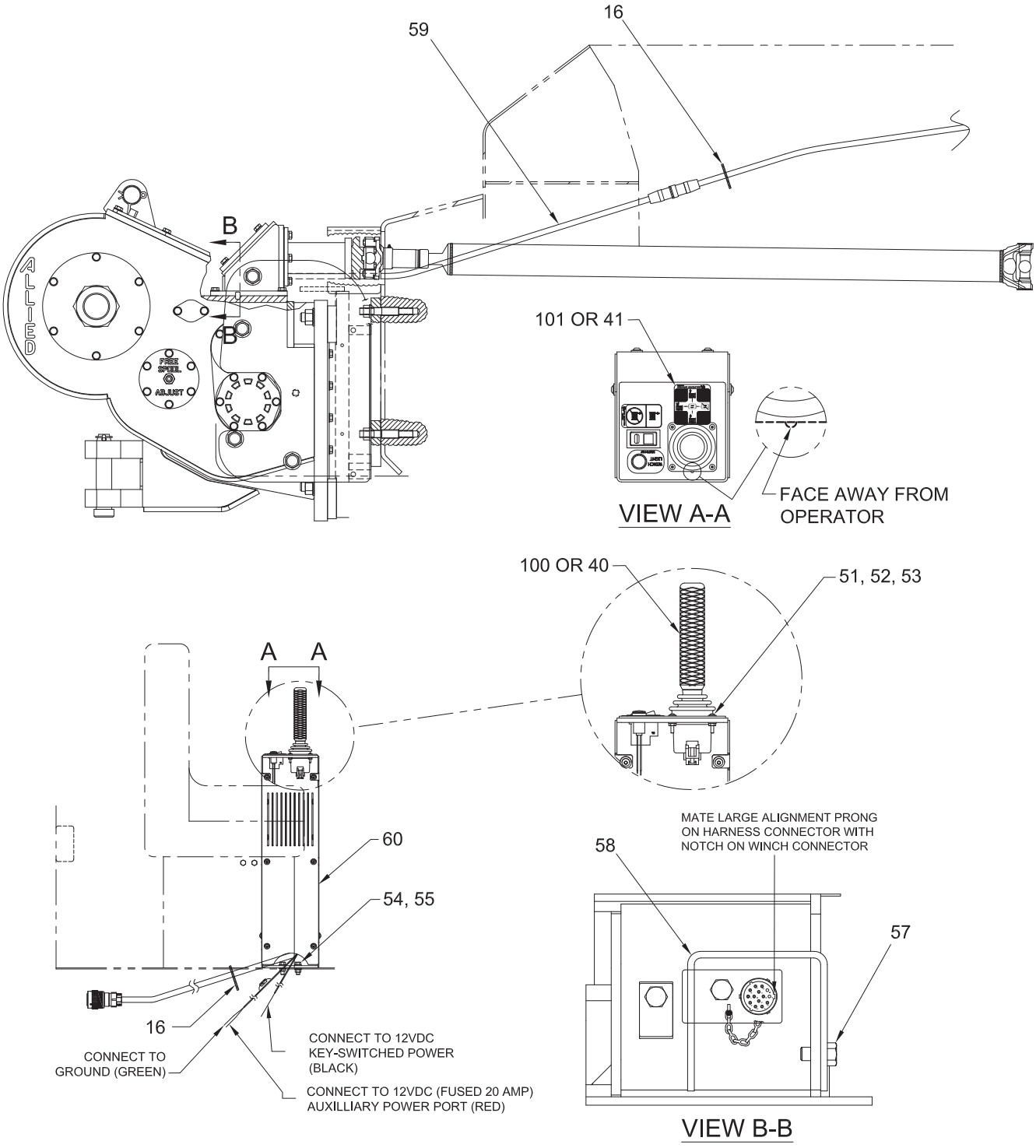
A - Freespool
B - Non-Freespool

Item		Part No.	Description	Qty A	Qty B
16		137852W	Clamp, Strap	5	5
40		2310552	Assembly, Control Lever	--	1
42		2305250W	Decal, Control Lever	--	1
50		2307944W	Decal, Winch Light	1	1
51		2311444	Harness, Wiring - EXT	1	1
53	*a	2304892W	Capscrew	4	4
54		15039W	Nut	4	4
55		197066W	Washer	4	4
56		2303912W	Assembly, Bypass LED	1	1
58		2310940	Module, Electronic Contors	1	1
59		2304779W	Collar, Control Lever Mounting	1	1
60		2307487W	Bracket, Mounting	1	1
61		174413W	Screw	2	2
62		156133W	Nut	2	2
63		2306655W	Converter	1	1
64		2306656W	Harness, Wiring	1	1
65		243503	Receptacle	1	1
66		243505	Lock, Secondary	1	1
67		264150W	Nut	4	4
68		Y25G-0426	Capscrew	4	4
69		2307849W	Assembly, Switch	1	1
70		2307925W	Decal (Not Shown)	1	1
71		2307942W	Decal (Not Shown)	1	1
73	*a	398817W	Screw, Flanged	2	2
74		2307919W	Guard, Cable	1	1
76		2312848	Harness, Extension	1	1
100		2310575	Assembly, Control Lever	1	--
101		2305258W	Decal, Control Lever	1	--

*a Use 318702W Thread Lock

Handling Gear, Electronic Controls

Case Quadtrac (R39)
First Used on S/N AW6G-1952
Page 1 of 2



Handling Gear, Electronic Controls

Case Quadtrac (R39)
First Used on S/N AW6G-1952

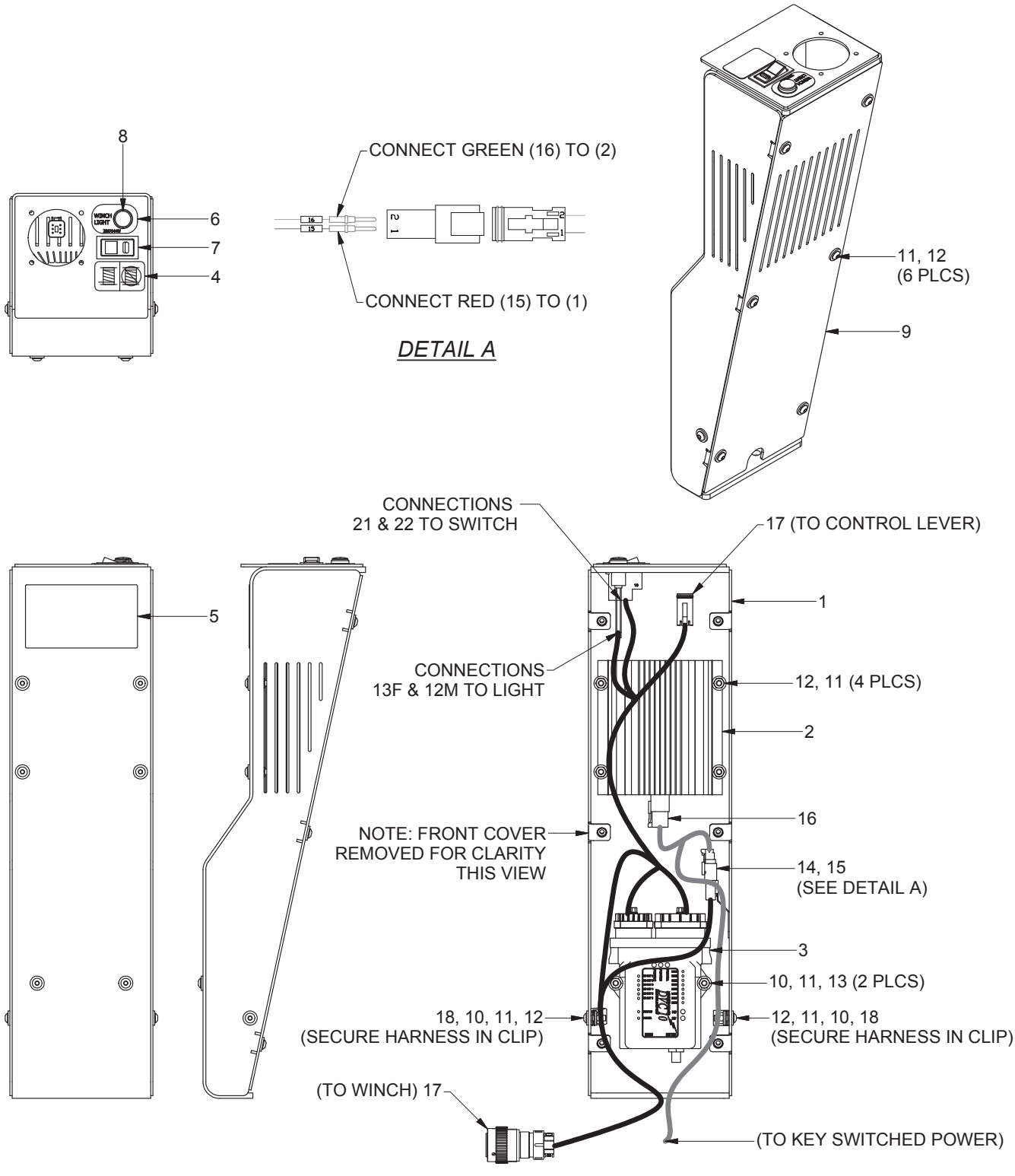
A - Freespool
B - Non-Freespool

Item		Part No.	Description	Qty A	Qty B
16		137852W	Clamp, Strap	5	5
40		2310552	Assembly, Control Lever	--	1
41		2305250W	Decal, Control Lever	--	1
51	*a	2304892W	Capscrew	4	4
52		15039W	Nut	4	4
53		197066W	Washer	4	4
54		174413W	Screw	2	2
55		156133W	Nut	2	2
57	*a	398817W	Screw, Flanged	2	2
58		2307919W	Guard, Cable	1	1
59		2314010	Harness, Extension	1	1
60		2314002	Assembly, Console (3-146)	1	1
100		2310575	Assembly, Control Lever	1	--
101		2305258W	Decal, Control Lever	1	--

*a Use 318702W Thread Lock

Console Assembly, Electronic Controls

Page 1 of 2



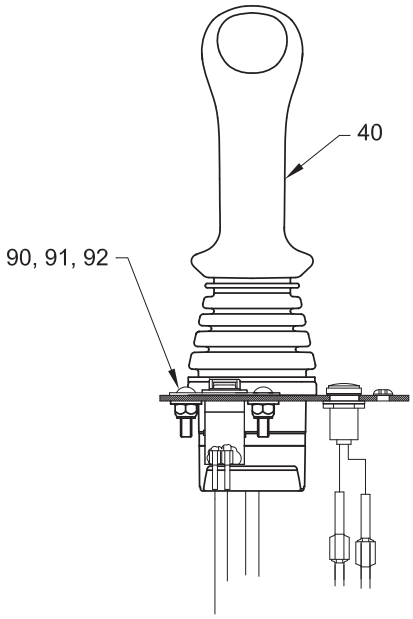
Console Assembly, Electronic Controls

Item	Part No.	Description	Qty
	2314002	**Assembly, Console**	**1**
1	2313968	. Console, E-Control	1
2	2306655W	. Converter	1
3	2315093	. Module, Electronic Control	1
4	2307925W	. Decal, Activation Switch	1
5	2307942W	. Decal, Winch Indicator Light	1
6	2307944W	. Decal, Winch Light	1
7	2307849W	. Assembly, Rocker Switch	1
8	2303912W	. Assembly, Bypass LED	1
9	2313965	. Plate, Cover	1
10	221703W	. Nut	8
11	221763W	. Washer	22
12	Y25G-0414	. Capscrew	12
13	2304267W	. Capscrew	2
14	243503	. Receptacle	1
15	243505	. Lock, Secondary	1
16	2306656W	. Harness, Wiring	1
17	2311444	. Harness, Wiring - Ext	1
18	R13803034	. Clip, Insulation	2

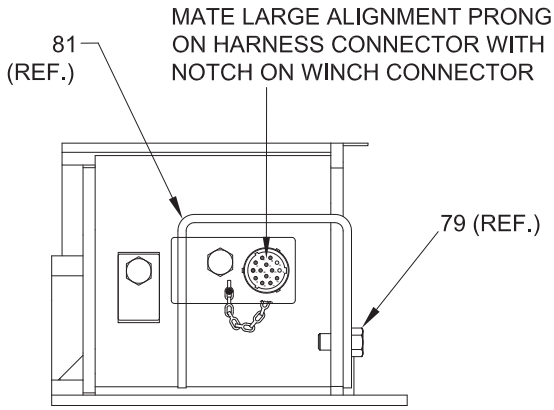
Handling Gear, Electronic Controls

Case 1650L (R40)
First Used on S/N AW6G-1974

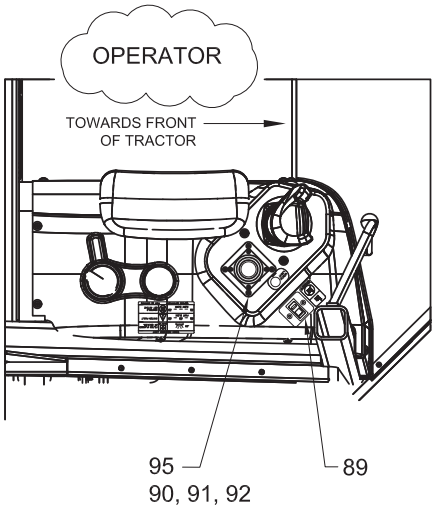
Note: See E-Controls Common Parts Pages for More Related Installation Information.



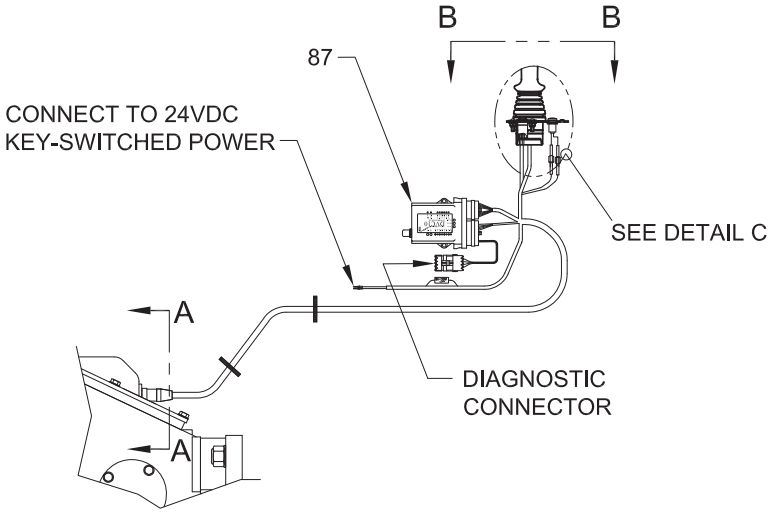
DETAIL C



SECTION A-A



VIEW B-B



Handling Gear, Electronic Controls

Case 1650L (R40)
First Used on S/N AW6G-1974

Item		Part No.	Description	Qty
40		2314999	Kit, E-Controls Lever Replacement (3-179)	1
79	*a	398817W	Screw	2
81		2307919W	Guard, Cable	1
87	*b	- - - -	Module, Electronic Control	1
89		2307643W	Plate, Switch Mounting	1
90	*c	- - - -	Washer	6
91	*c	- - - -	Nut	6
92	*c	- - - -	Capscrew	6
95		2310161	Plate, E-Controls Controller Adapter	1

Item	Part No.	Description	Qty
*a	Use 318702W Thread Lock		
*b	Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf		
*c	Refer to 2314999, E-Controls Lever Replacement Kit, on Pages 3-178 & 3-179		

Handling Gear, Electronic Controls

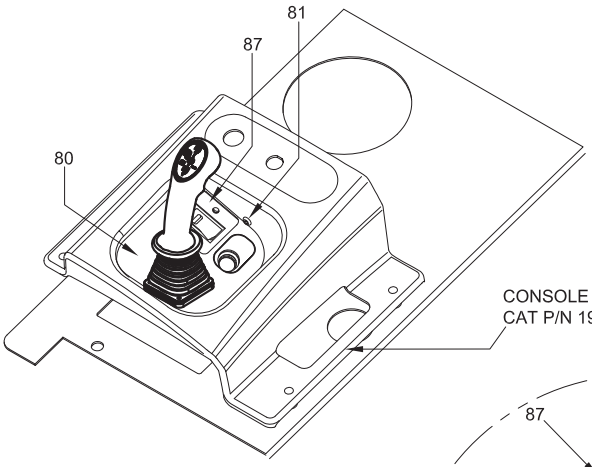
For Tractors with *Linkage Hydraulic Valve Controls* †

Caterpillar D6N (C47)

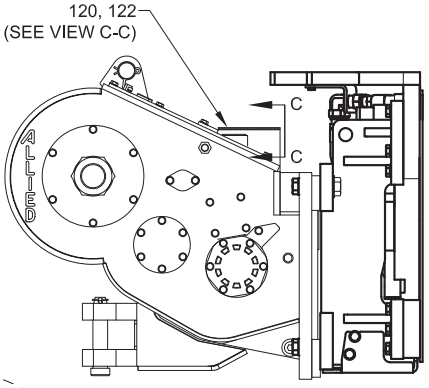
First Used on S/N AW6G-1974

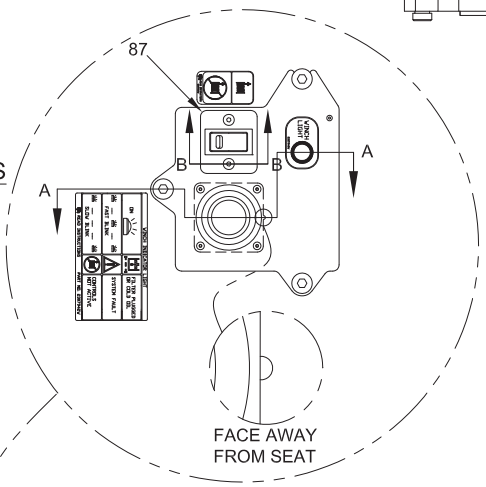
Page 1 of 2

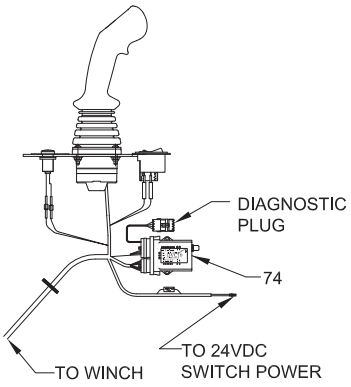
† See page 0-4 for CAT tractor serial numbers.

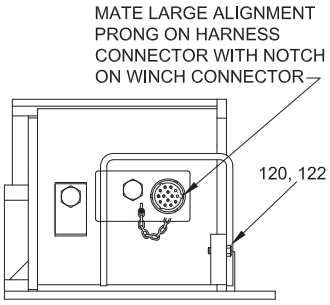


E-CONTROL LEVER
FOR TRACTORS
WITH CAB & MECHANICAL CONTROLS

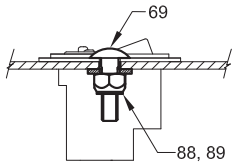




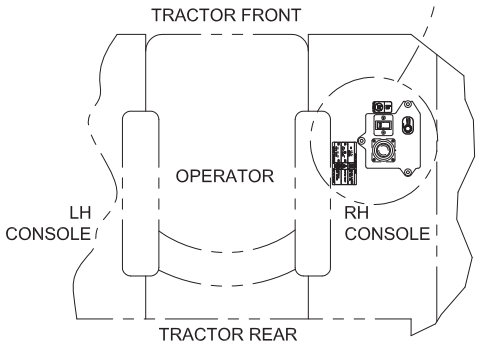




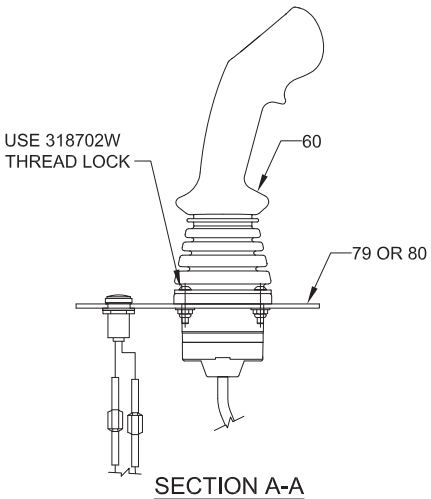
VIEW C-C



SECTION B-B



ELECTRIC CONTROL HANDLEVERS
FOR TRACTORS
WITHOUT CAB & MECHANICAL CONTROLS



SECTION A-A

Note: See E-Controls Common Parts Pages for More Related Installation Information.

Handling Gear, Electronic Controls

For Tractors with *Linkage Hydraulic Valve Controls †*

Caterpillar D6N (C47)

First Used on S/N AW6G-1974

Item		Part No.	Description	Qty
60		2314999	Kit, E-Controls Lever Replacement (3-179)	1
69		Y25G-0416	Capscrew	2
74	*b	- - - -	Module, Electronic Controls	1
79		2307843W	Plate, Control Lever Mounting - w/o Cab	1
80		2307845W	Plate, Cover	1
81		18717W	Capscrew	4
85		2304779W	Plate, Cover	1
87		2307643W	Plate, Switch Mounting	1
88	*c	- - - -	Washer	2
89	*c	- - - -	Nut	2

Item		Part No.	Description	Qty
120	*a, *c	- - - -	Screw	2
122		2307920W	Bracket, Cable Guard	1

*a Use 318702W Thread Lock

*b Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf

*c Refer to 2314999, E-Controls Lever Replacement Kit, on Pages 3-178 & 3-179

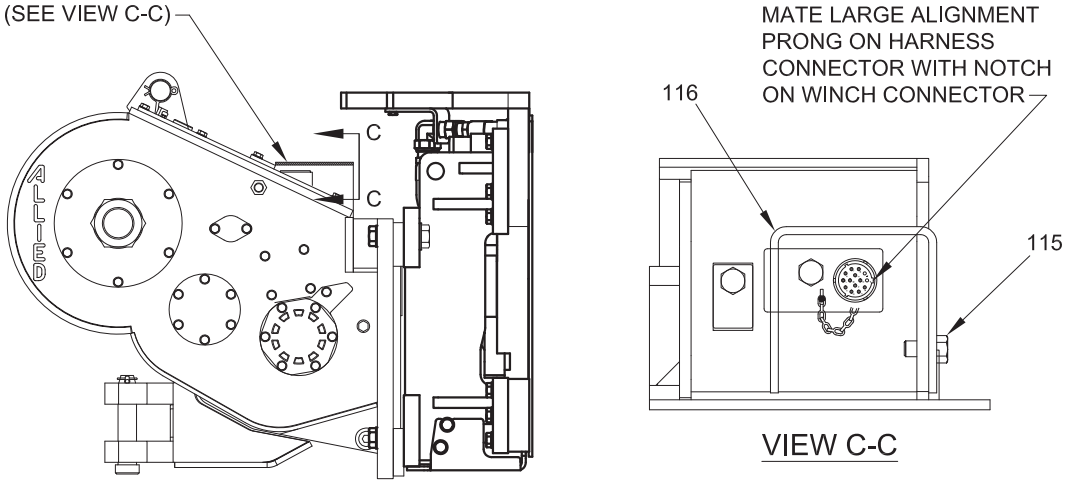
Handling Gear, Electronic Controls

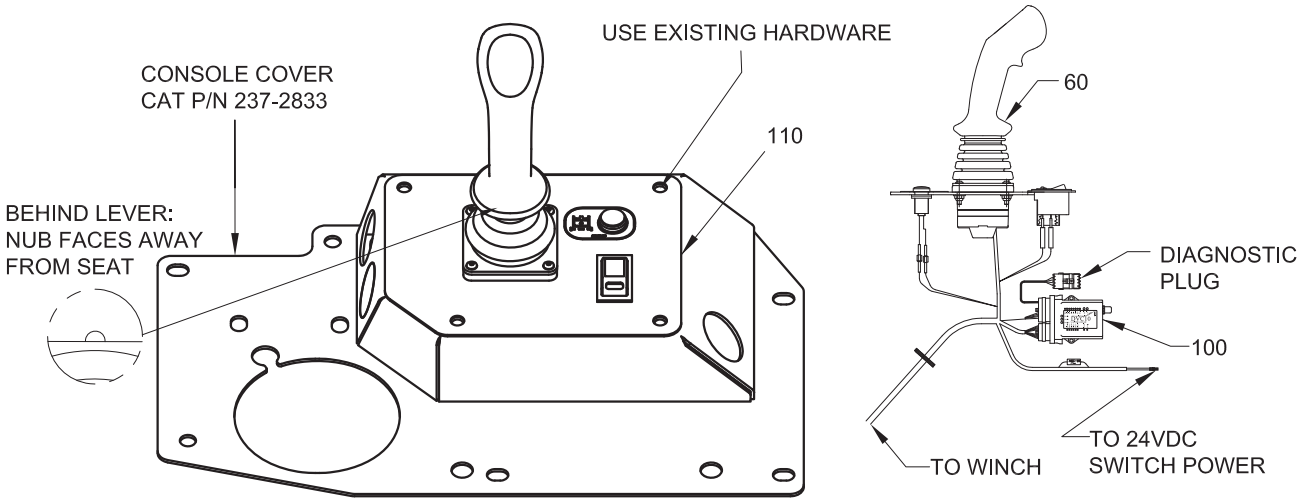
For Tractors with *Pilot Operated Hydraulics* †

Caterpillar D6N (C78)

First Used on S/N AW6G-1974

† See page 0-4 for CAT tractor serial numbers.





Note: See E-Controls Common Parts Pages for More Related Installation Information.

Handling Gear, Electronic Controls

For Tractors with *Pilot Operated Hydraulics* †

Caterpillar D6N (C78)

First Used on S/N AW6G-1974

† See page 0-4 for CAT tractor serial numbers.

Item		Part No.	Description	Qty
60		2314999	Kit, E-Controls Lever Replacement (3-179)	1
100	*b	- - - -	Module, Electronic Controls	1
110		2314174	Bracket	1
111		225871	Trim (Not Shown)	1.17 FT
115	*a	398817W	Screw, Flanged	2
116		2307919W	Guard, Cable	1

Item	Part No.	Description	Qty
	*a	Use 318702W Thread Lock	
	*b	Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf	

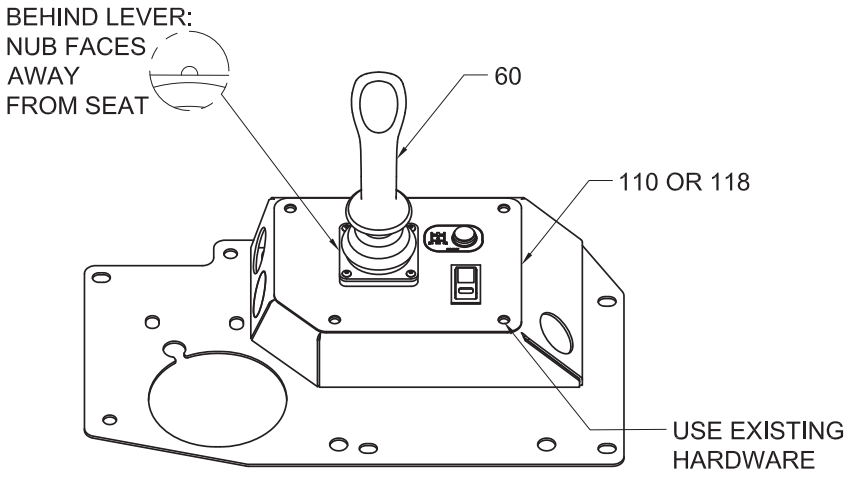
Handling Gear, Electronic Controls

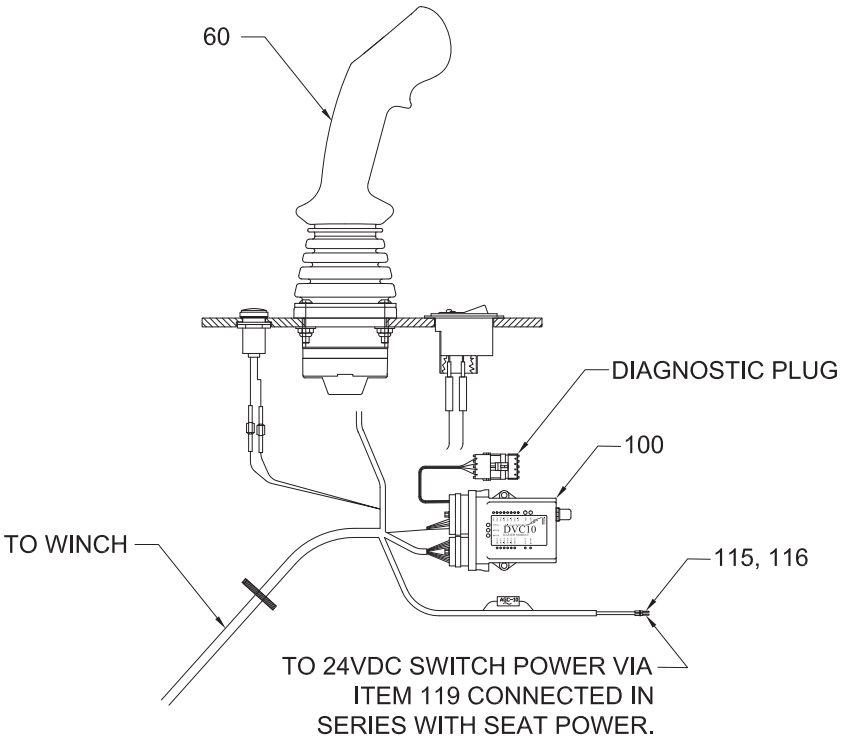
For Tractors with *Pilot Operated Hydraulics* †

Caterpillar D6N (C81)

First Used on S/N AW6G-1974

† See page 0-4 for CAT tractor serial numbers.





Note: See E-Controls Common Parts Pages for More Related Installation Information.

Handling Gear, Electronic Controls

For Tractors with *Pilot Operated Hydraulics* †

Caterpillar D6N (C81)

First Used on S/N AW6G-1974

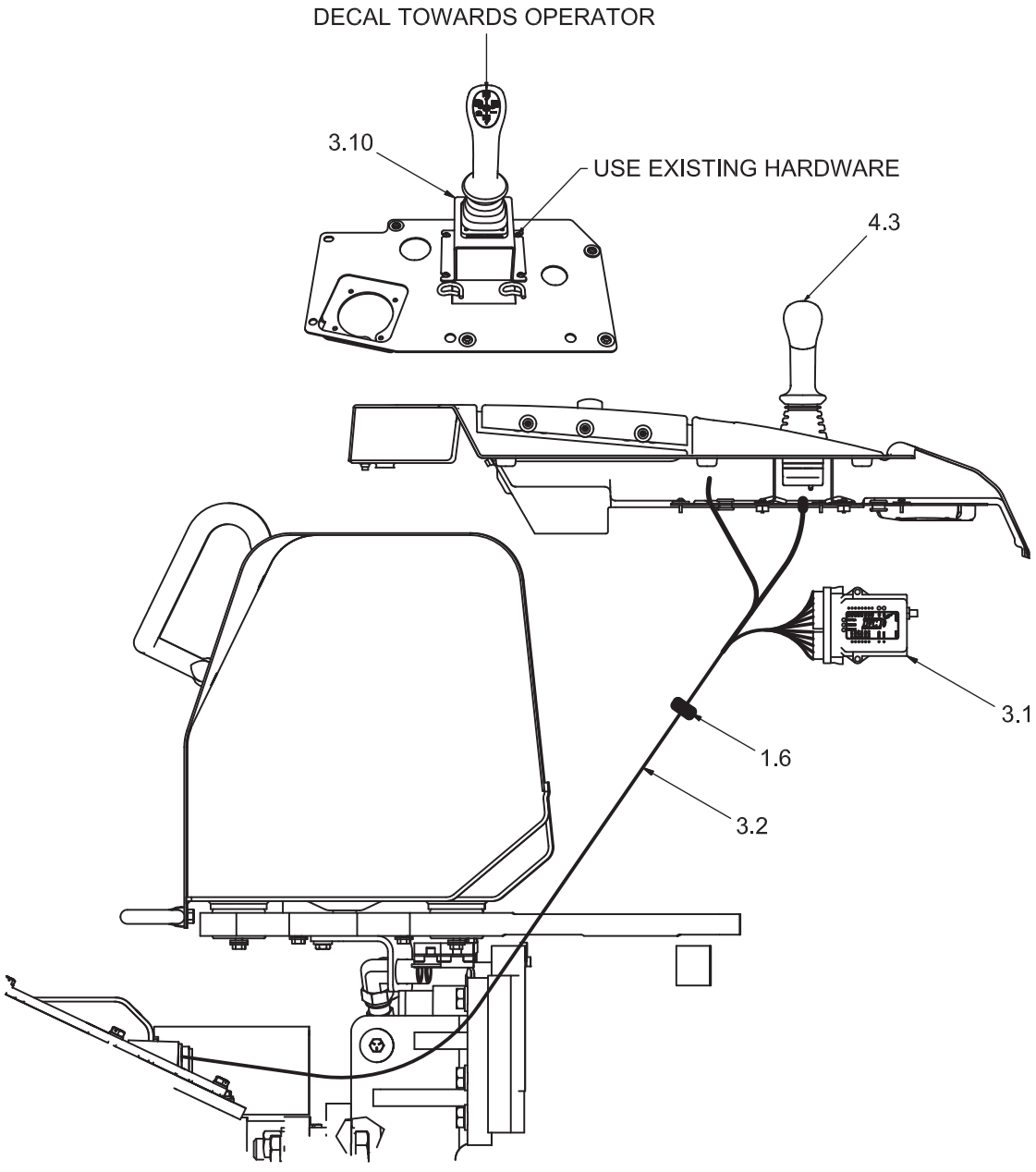
† See page 0-4 for CAT tractor serial numbers.

Item		Part No.	Description	Qty
60		2314999	Kit, E-Controls Lever Replacement (3-179)	1
100	*a	- - - -	Module, Electronic Controls	1
110		2314174	Bracket	1
111		225871	Trim (Not Shown)	1.17 ft
115		243503	Receptacle	1
116		243505	Lock	1
118		2314090	Brecket (with Dual Controls)	1
119		2310692	Harness, Power Adapter	1

*a Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf

Handling Gear, Electronic Controls

Caterpillar D6N Tier 4i (C810)
S/N PREFIX: PBA & PER
For Tractors with & without Ripper or Dual Contorls
First Used on S/N AW6G-1974



Note: See E-Controls Common Parts Pages for More Related Installation Information.

Handling Gear, Electronic Controls

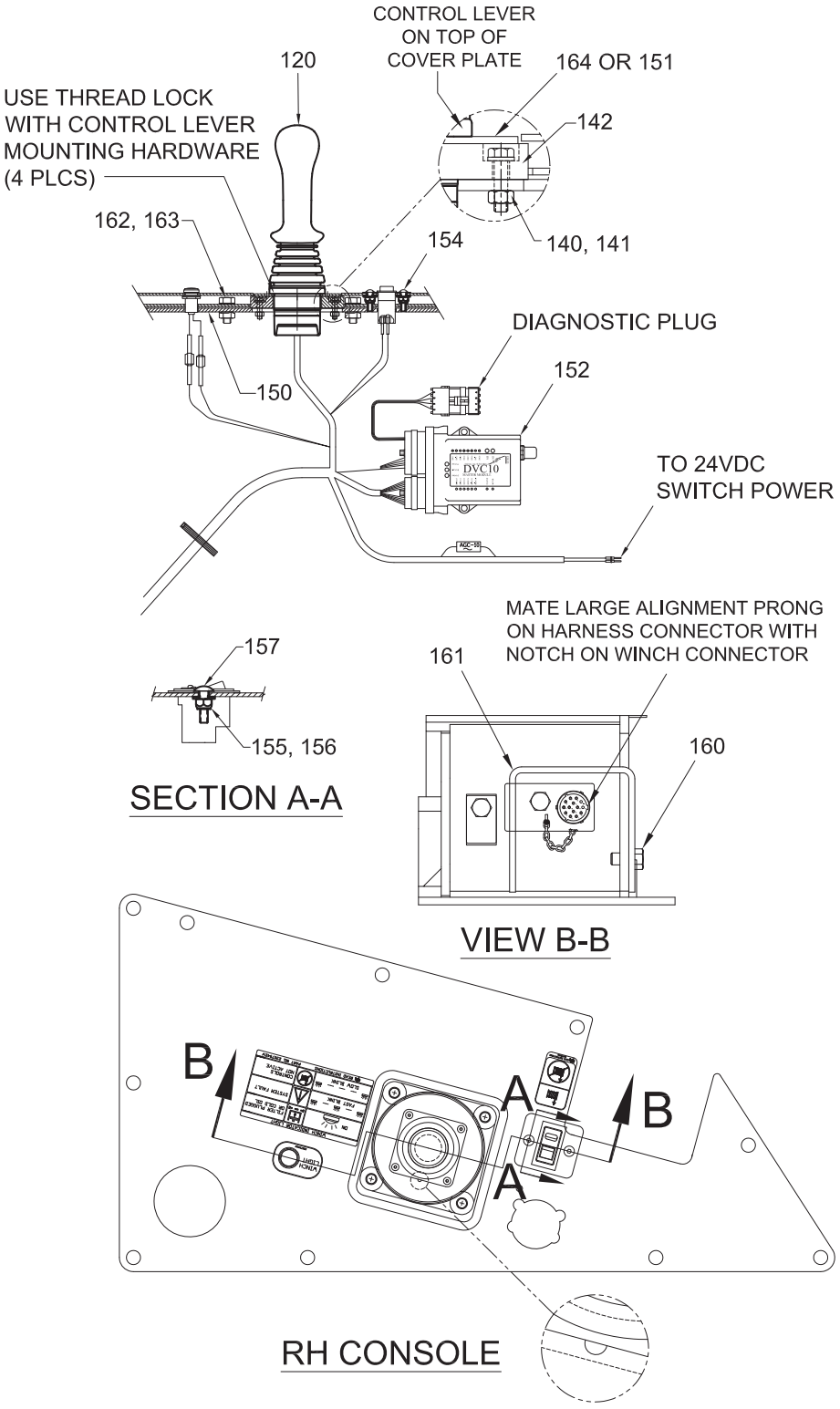
Caterpillar D6N Tier 4i (C810)
S/N PREFIX: PBA & PER
For Tractors with & without Ripper or Dual Contorls
First Used on S/N AW6G-1974

Item		Part No.	Description	Qty
1.6		137852W	Clamp, Strap	6
3.1	*a	- - - -	Module, Electronic Control	1
3.2		2311444	Harness, Wiring	1
3.10		2314458	Bracket	1
3.11		225871	Trim, Edge (Not Shown)	1.17 FT
4.3		2314999	Kit, E-Controls Lever Replacement (3-179)	1

Item	Part No.	Description	Qty
*a	Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf		

Handling Gear, Electronic Controls

Caterpillar D6H PS (C48 Or C480),
D6R PS (C50),
D6R Series II & III, and D6T (C71)
First Used on S/N AW6G-1974
Page 1 of 2



Note: See E-Controls Common Parts Pages for More Related Installation Information.

Handling Gear, Electronic Controls

Caterpillar D6H PS (C48 Or C480),
D6R PS (C50),
D6R Series II & III, and D6T (C71)
First Used on S/N AW6G-1974

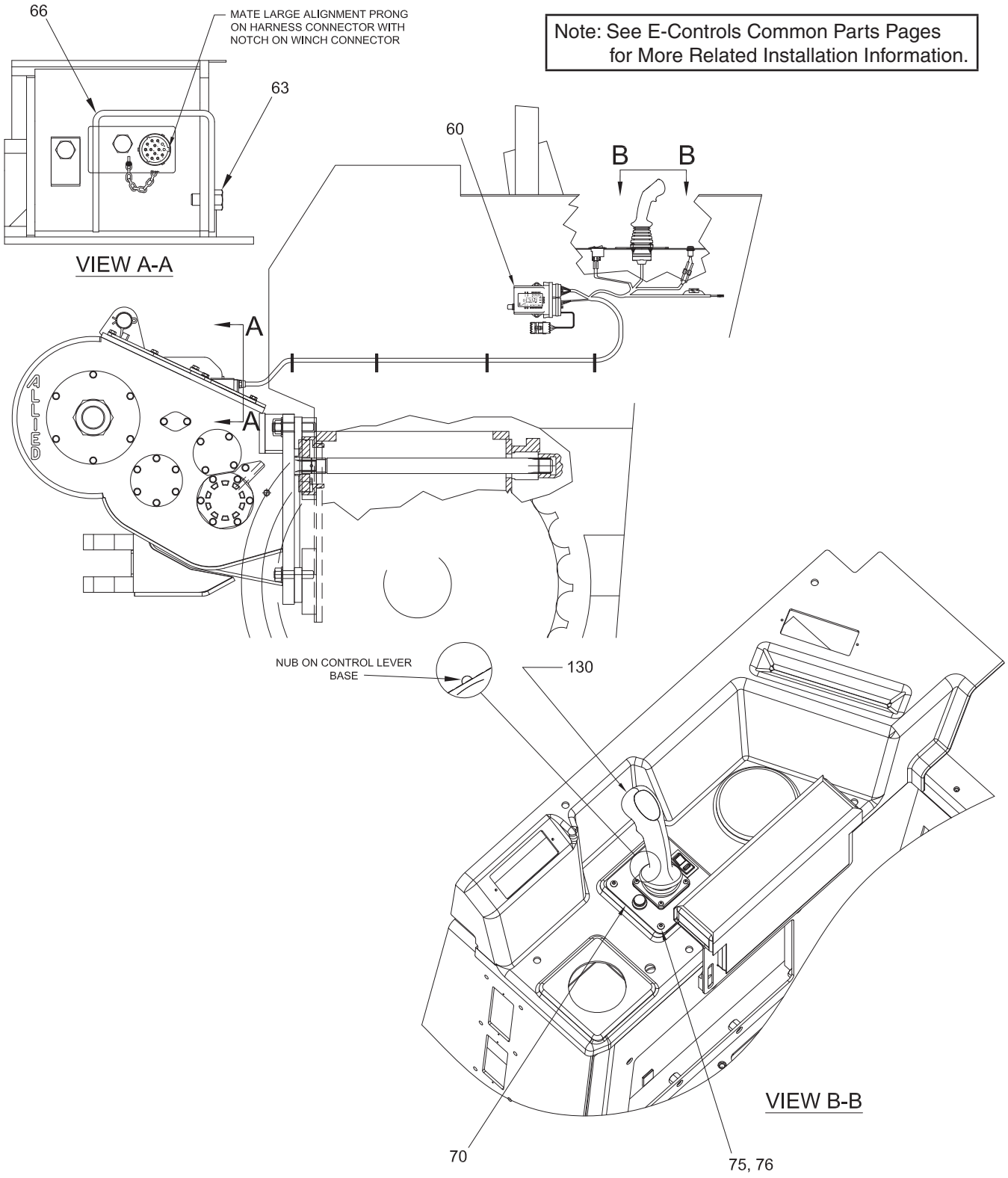
Item		Part No.	Description	Qty
120		2314999	Kit, E-Controls Lever Replacement (3-179)	1
140		292680W	Washer	4
141		287816W	Capscrew	4
142		2315078	Plate, Control Lever Riser	1
150		2313753	Mounting, Control Lever	1
151		2305412W	Plate, Control Lever Cover	1
152	*b	- - - -	Module, Electronic Control	1
154		2307643W	Plate, Switch Mounting	1
155		15127W	Washer	2
156		15113W	Nut	2
157		Y25G-0416	Capscrew	2
160	*a	398817W	Screw, Flanged	2
161		2307919W	Guard, Cable	1
162		293628W	Capscrew	3
163		296420W	Washer	3
164		2313761	Plate, Control Lever Cover	1

*a Use 318702W Thread Lock

*b Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf

Handling Gear, Electronic Controls

Dresser TD15E PS (H44), TD15E DD (H45),
TD15H PS (H46), TD15H Tier II & TD15M (H47)
First Used on S/N AW6G-1974



Note: See E-Controls Common Parts Pages for More Related Installation Information.

Handling Gear, Electronic Controls

Dresser TD15E PS (H44), TD15E DD (H45),
TD15H PS (H46), TD15H Tier II & TD15M (H47)
First Used on S/N AW6G-1974

Item		Part No.	Description	Qty
60	*b	- - - -	Module, Electronic Controls	1
63	*a	398817W	Screw, Flanged	2
66		2307919W	Guard, Cable	1
70		2310284	Plate, Control Lever	1
75		Y25G-0416	Capscrew	4
76		15127W	Washer	4
130		2314999	Kit, E-Controls Lever Replacement (3-179)	1

Item		Part No.	Description	Qty

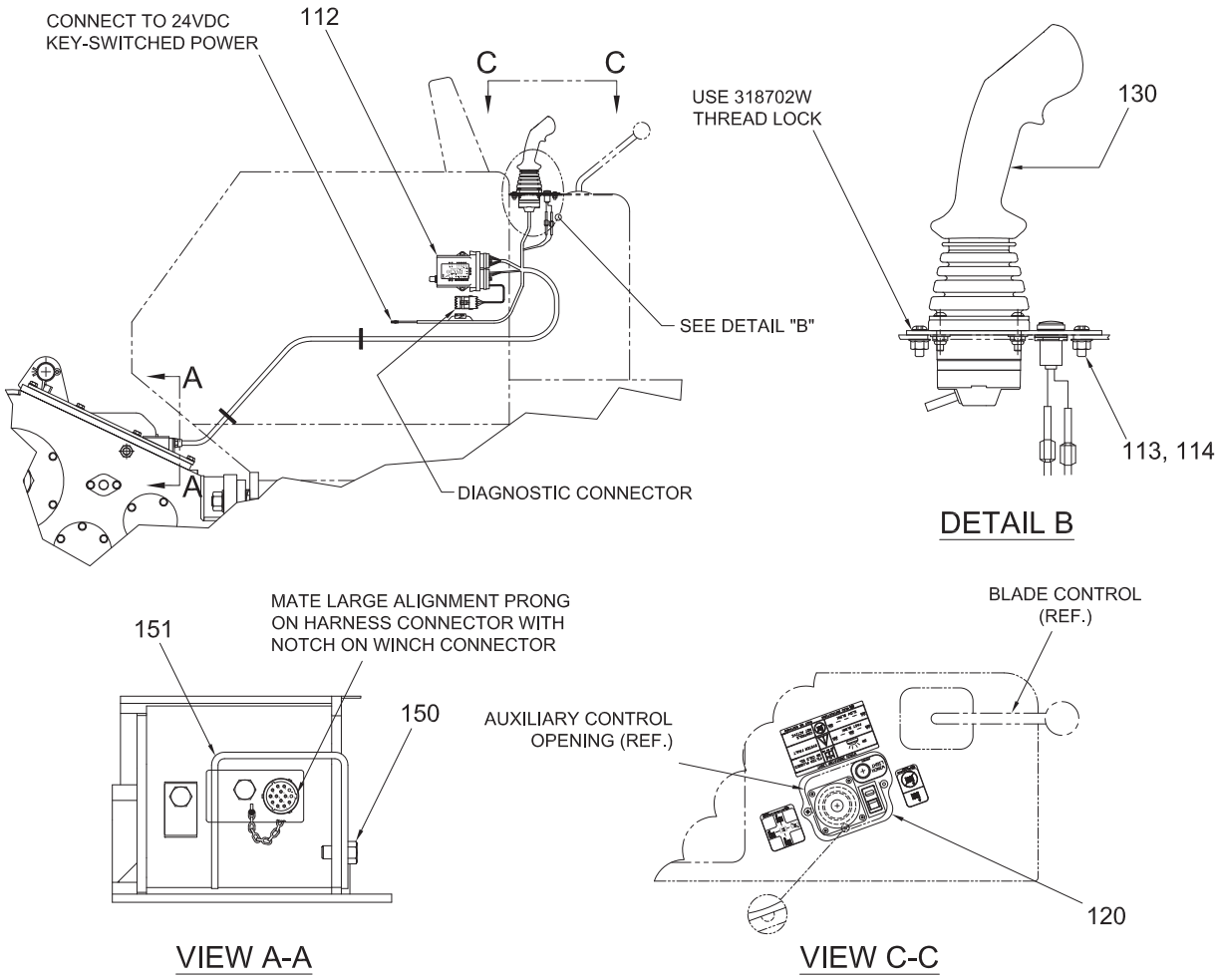
*a Use 318702W Thread Lock

*b Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf

Handling Gear, Electronic Controls

John Deere 750C Series I & II (E45) and 850C Series I & II (E46)
First Used on S/N AW6G-1974

Note: See E-Controls Common Parts Pages for More Related Installation Information.



NOTE: Communication cable p/n 2304603W is necessary to perform extensive troubleshooting on the electronic controls system. For basic troubleshooting, see Service Manual.

Handling Gear, Electronic Controls

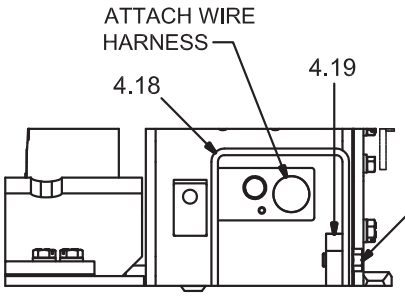
John Deere 750C Series I & II (E45) and 850C Series I & II (E46)
First Used on S/N AW6G-1974

Item		Part No.	Description	Qty
112	*b	- - - -	Module, Electronic Control	1
113		18720W	Capscrew	2
114		264150W	Nut	2
120		2307872W	Plate, Mounting	1
130		2314999	Kit, E-Controls Lever Replacement (3-179)	1
150	*a	398817W	Screw, Flanged	2
151		2307919W	Guard, Cable	1

*a Use 318702W Thread Lock
*b Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf

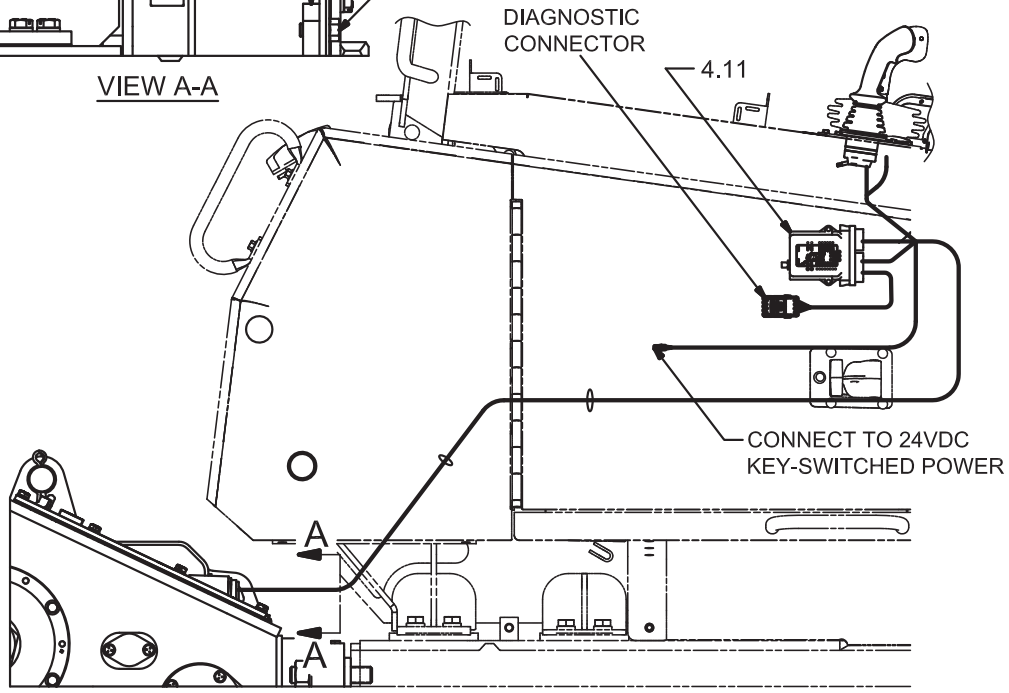
Handling Gear, Electronic Controls

John Deere 850K (E460)
First Used on S/N AW6G-1974
Page 1 of 2

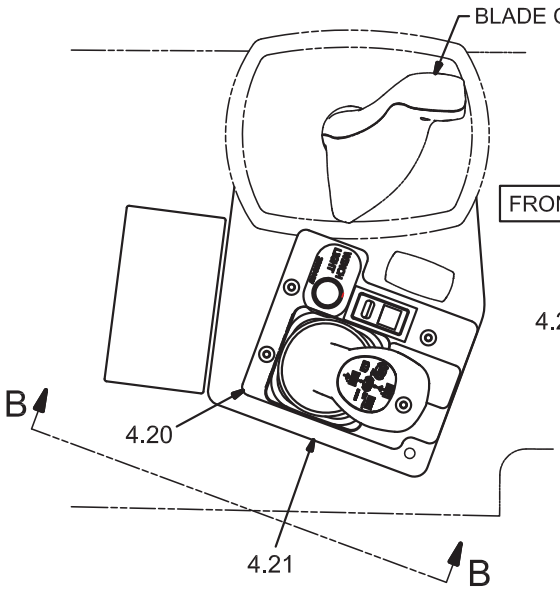


VIEW A-A

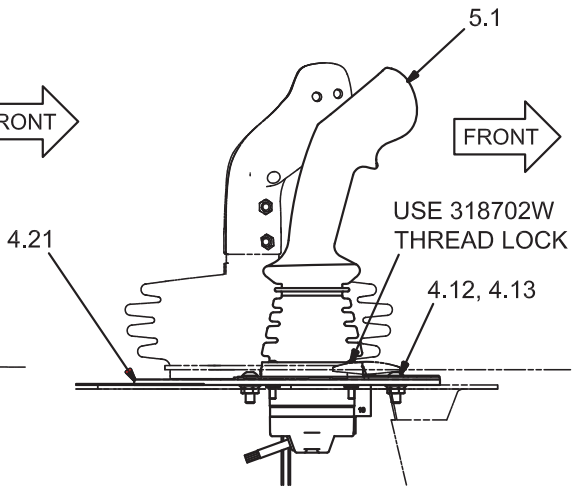
Note: See E-Controls Common Parts Pages for More Related Installation Information.



HARNESS INSTALLATION
RIGHT HAND SIDE VIEW



RIGHT HAND SIDE CONSOLE
TOP VIEW



VIEV B-B
CONTROL LEVER INSTALLATION

Handling Gear, Electronic Controls

John Deere 850K (E460)
First Used on S/N AW6G-1974

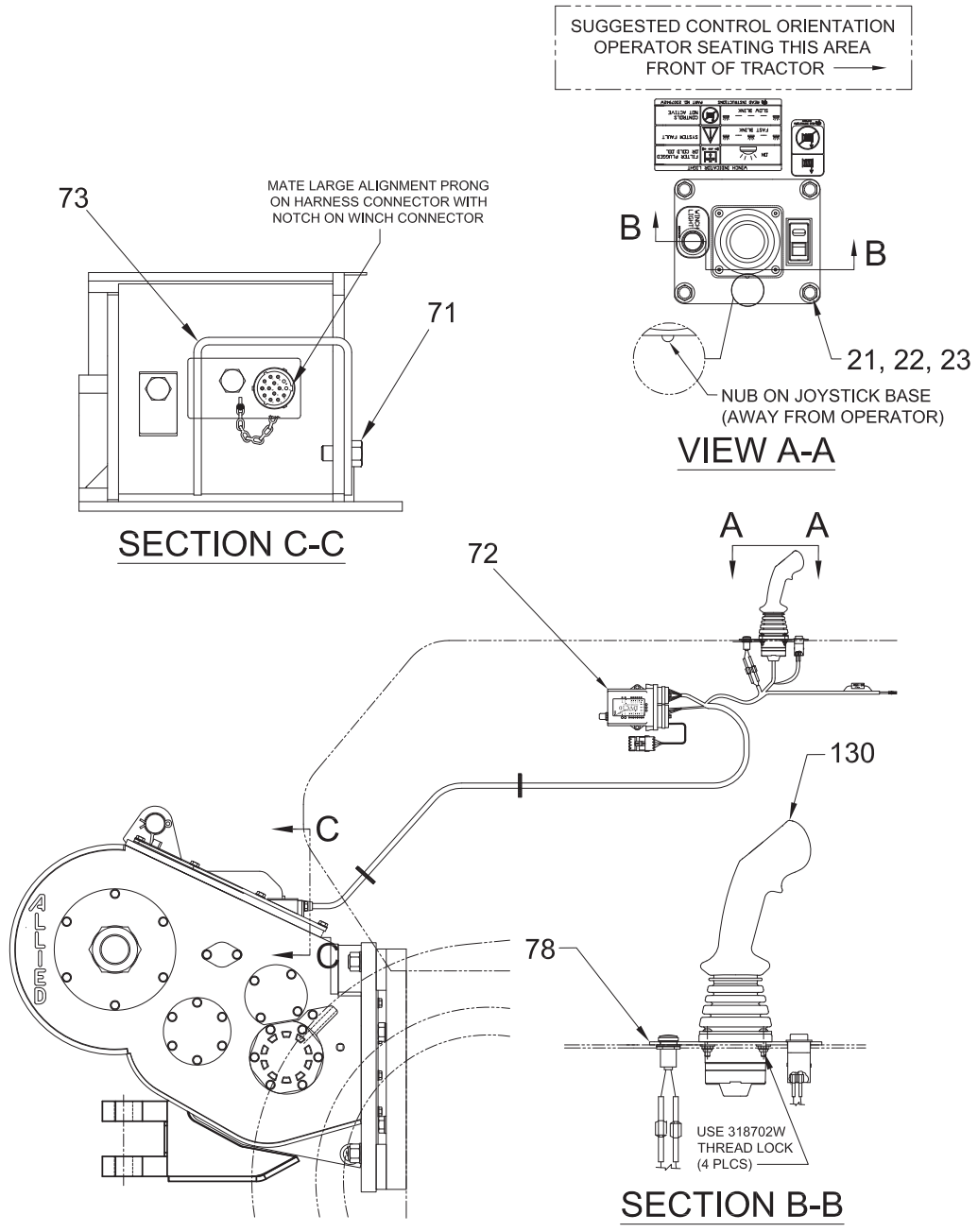
Item		Part No.	Description	Qty
4.11	*a	- - - -	Module, Electronic Control	1
4.12		18720W	Capscrew	4
4.13		264150W	Nut	4
4.17		398817W	Screw, Flanged	2
4.18		2307919W	Guard, Cable	1
4.19		2307920W	Bracket, Cable Guard	1
4.20		2313371	Plate, Control Lever Mounting	1
4.21		2313387	Plate, Control Console	1

Item	Part No.	Description	Qty
5.1	2314999	Kit, E-Controls Lever Replacement (3-179)	1

*a Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf

Handling Gear, Electronic Controls

Komatsu D61EX-12/15 (K47)
First Used on S/N AW6G-1974



Note: See E-Controls Common Parts Pages for More Related Installation Information.

Handling Gear, Electronic Controls

Komatsu D61EX-12/15 (K47)
First Used on S/N AW6G-1974

A - Freespool
B - Non-Freespool

Item		Part No.	Description	Qty
21		2304350W	Assembly, U-Bolt	1
22		15158W	Washer	2
23		15135W	Washer	4
71	*a	398817W	Screw, Flanged	2
72	*b	- - - -	Module, Electronic Control	1
73		2307919W	Guard, Cable	1
78		2310489	Plate, Mounting	1

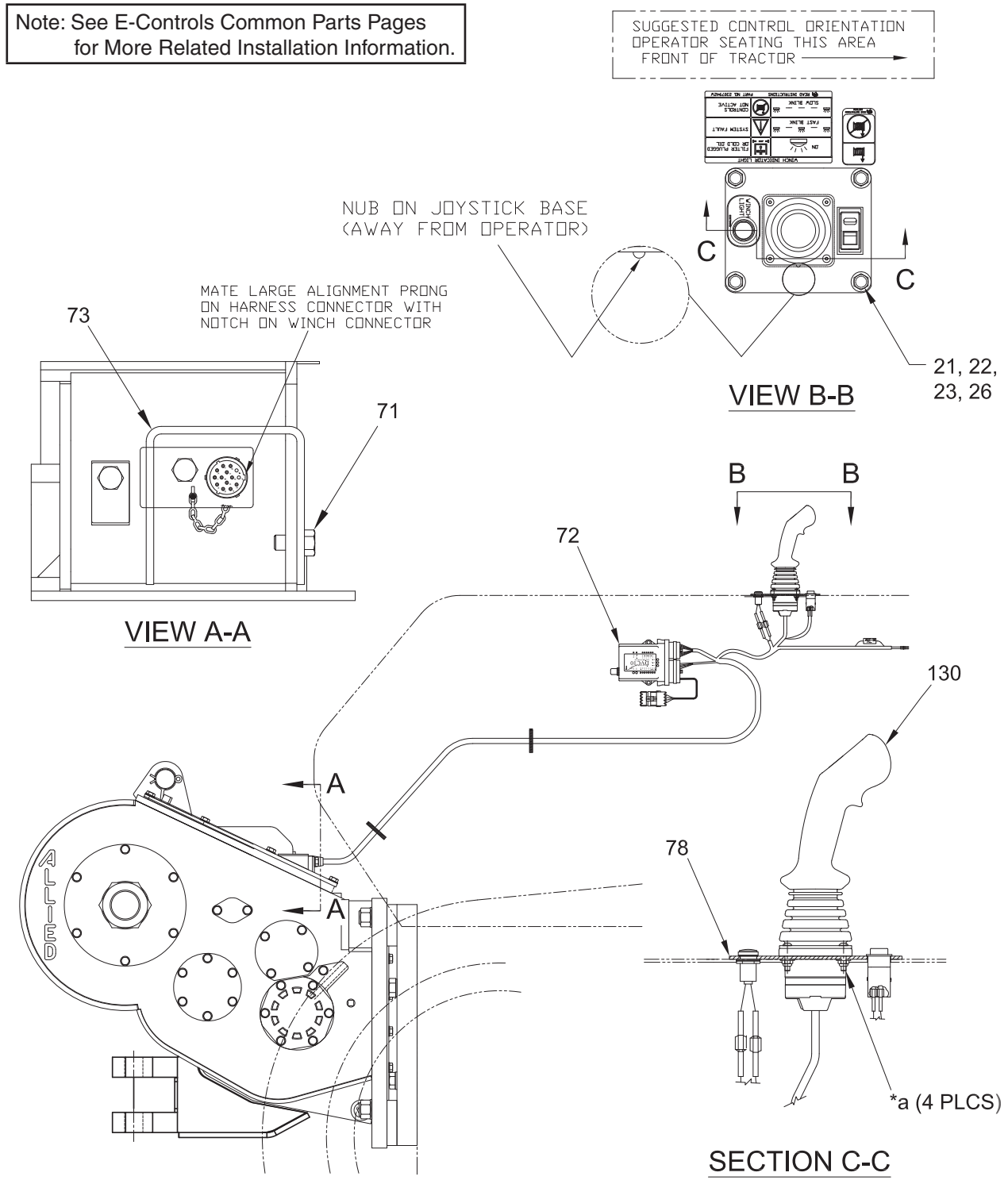
Item	Part No.	Description	Qty
130	2314999	Kit, E-Controls Lever Replacement (3-179)	1

*a Use 318702W Thread Lock
*b Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf

Handling Gear, Electronic Controls

Komatsu D65EX-12/15, D65EX-15E0, D65PX-12/15, D65WX-15E0 (K46)
First Used on S/N AW6G-1974
Page 1 of 2

Note: See E-Controls Common Parts Pages for More Related Installation Information.



Handling Gear, Electronic Controls

Komatsu D65EX-12/15, D65EX-15E0, D65PX-12/15, D65WX-15E0 (K46)
First Used on S/N AW6G-1974

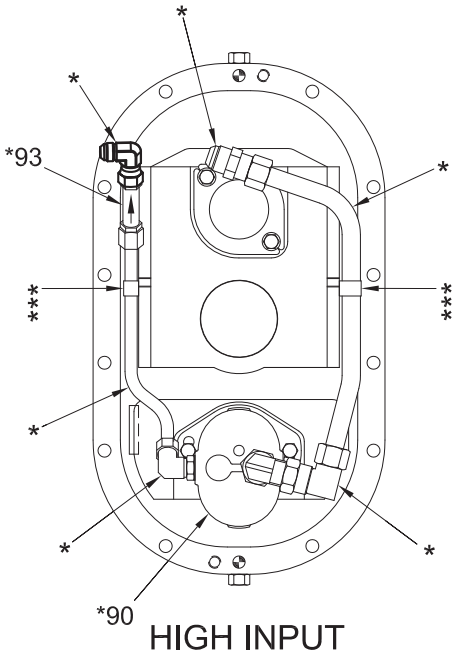
Item		Part No.	Description	Qty
21		16805W	Capscrew	4
22		15134W	Washer	4
23		221707W	Nut	4
26		2301055W	Trim, Protective	1.5 ft
71	*a	398817W	Screw, Flanged	2
72	*b	- - - -	Module, Electronic Controls	1
73		2307919W	Guard, Cable	1
78		2310489	Plate, Mounting	1

Item	Part No.	Description	Qty
130	2314999	Kit, E-Controls Lever Replacement (3-179)	1

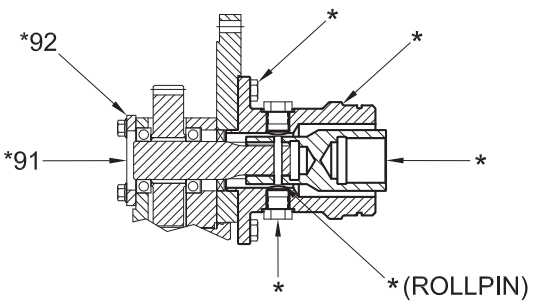
*a Use 318702W Thread Lock
*b Refer to 2305227W, Winch E-Controls Control Program and Programmed Control Module Selection Charts, on Allied Systems' website at www.alliedsystems.com/pdf/Winch/chart/2305227W.pdf

Conversion Kit, Electronic Controls

Input Conversion
Caterpillar D6N (C47, C78) / D6M (C29) to
Caterpillar D6R Series I (C48, C50), D6R Series II and D6T (C71)
Page 1 of 4



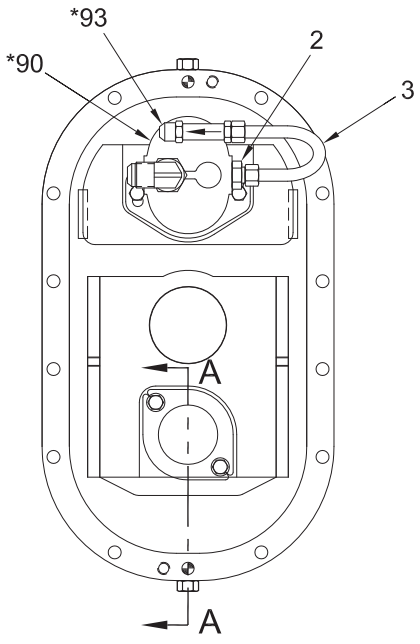
HIGH INPUT
CAT D6N/D6M



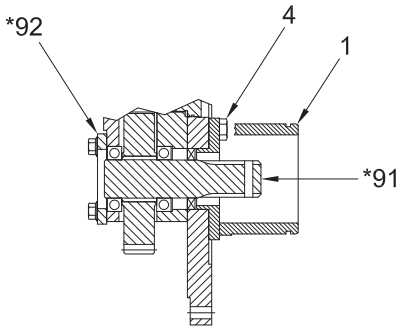
SECTION A-A
FOR CAT D6N/D6M

D6N/M TO D6R INTERNAL CONVERSION

1. REMOVE AND DISCARD ITEMS MARKED "*".
2. REUSE ITEMS: *90-*93
3. INSTALL ITEMS: 1-4



LOW INPUT
CAT D6R SERIES I & II

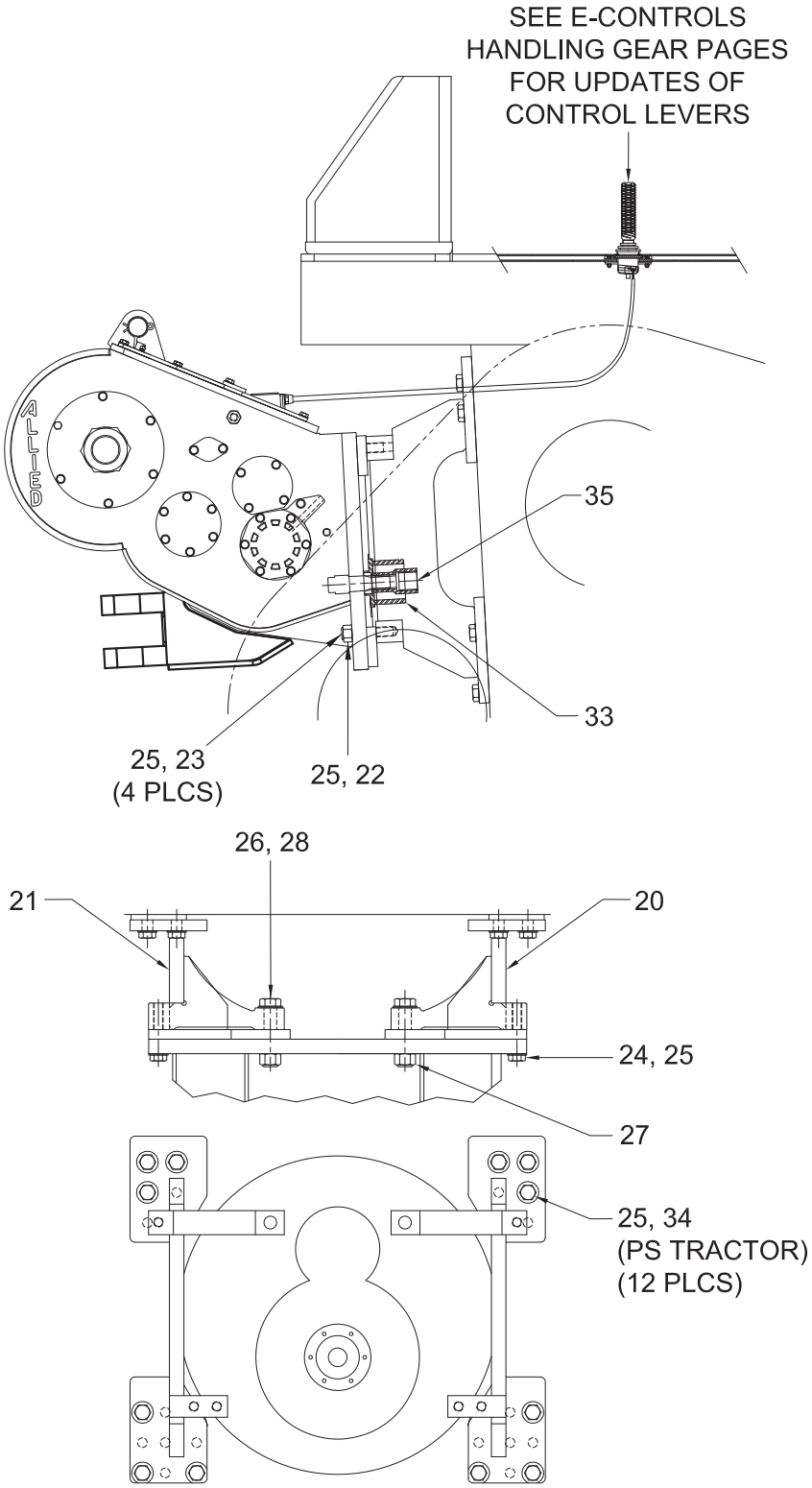


SECTION A-A
FOR CAT D6R

INPUT CONVERSION
CAT D6N (C47, C78)/D6M (C29) to
CAT D6R (C48, C50, C71)

Conversion Kit, Electronic Controls

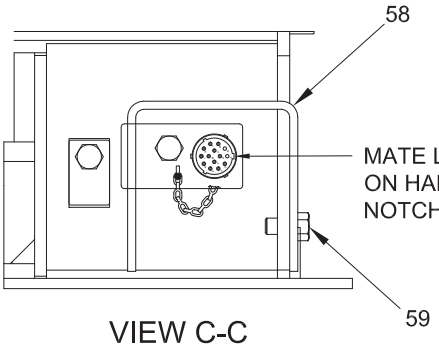
Winch Installation
Caterpillar D6N (C47, C78) / D6M (C29) to
Caterpillar D6R Series I (C48, C50), D6R Series II and D6T (C71)
Page 2 of 4



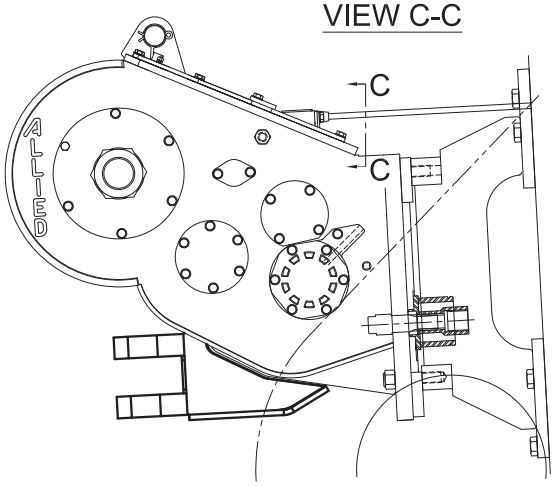
WINCH INSTALLATION
CAT D6R I (C48, C50) & D6R II (C71)

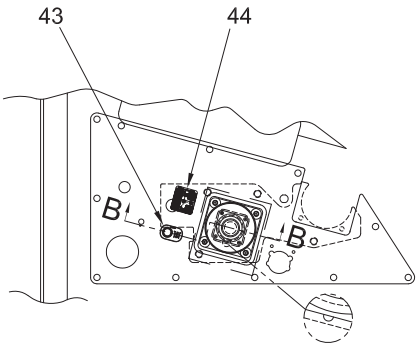
Conversion Kit, Electronic Controls

E-Controls Installation
Caterpillar D6N (C47, C78) / D6M (C29) to
Caterpillar D6R Series I (C48, C50), D6R Series II and D6T (C71)
Page 3 of 4

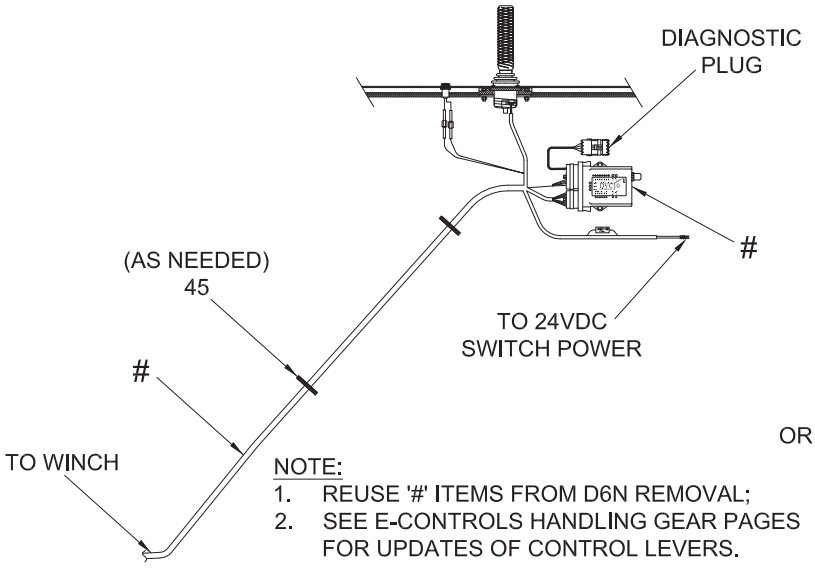


VIEW C-C

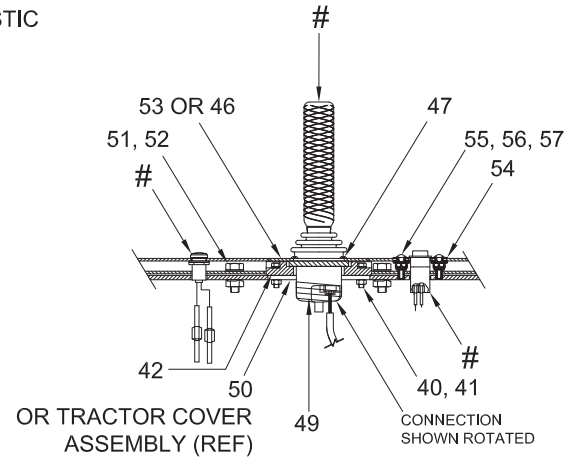




RH CONSOLE



NOTE:
1. REUSE '#' ITEMS FROM D6N REMOVAL;
2. SEE E-CONTROLS HANDLING GEAR PAGES FOR UPDATES OF CONTROL LEVERS.



SECTION B-B

ECONTROLS INSTALLATION
D6R I (C48, C50) & D6R II (C71)

Conversion Kit, Electronic Controls

Caterpillar D6N (C47, C78) / D6M (C29) to
Caterpillar D6R Series I (C48, C50), D6R Series II and D6T (C71)

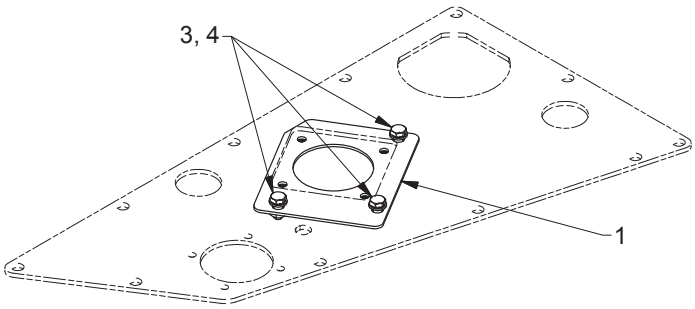
Item		Part No.	Description	Qty
1		2300648W	Pilot, PTO	1
2		16909W	Fitting	1
3		2300759W	Assembly, Tube	1
4		178402W	Capscrew	4
20		2300723W	Bracket, Mounting - RH	1
21		2300724W	Bracket, Mounting - LH	1
22	*a	221721W	Nut	4
23	*a	2301144W	Stud	4
24	*a	Y17C-1664	Capscrew	2
25		221780W	Washer	18
26	*a	2301775W	Capscrew	2
27	*a	221724W	Nut	2
28		15128W	Washer	23
32		129563W	Clamp, Strap (Not Shown)	2
33		15887W	O-Ring	1
34	*a	Y17C-1636	Capscrew	12
35		2300709W	Coupling, PTO - PS	1
40		292680W	Washer	4
41		287816W	Capscrew	4
42		2305411W	Plate, Mounting	1
43		2307944W	Decal, Winch Light	1
44		2305258W	Decal, Control Lever	1
45		137852W	Clamp, Strap	6
46		2305412W	Plate, Control Lever Cover	1
47	*b	18695W	Screw	4
49		2304796W	Tape, Self Fusing	1
50		2313753	Mounting, Control Lever	1
51		293628W	Capscrew	3
52		296420W	Washer	3
53		2313761	Plate, Control Lever Mounting	1
54		2307643W	Plate, Switch Mounting	1
55		15127W	Washer	2
56		15113W	Nut	2
57		Y25G-0416	Capscrew	2
58		2307919W	Guard, Cable	1
59		398817W	Screw	2
*90		2302963W	Pump	1
*91		2300646W	Shaft, Input	1
*92		2300645W	Retainer, Bearing	1
*93		2300758W	Valve, Check	1

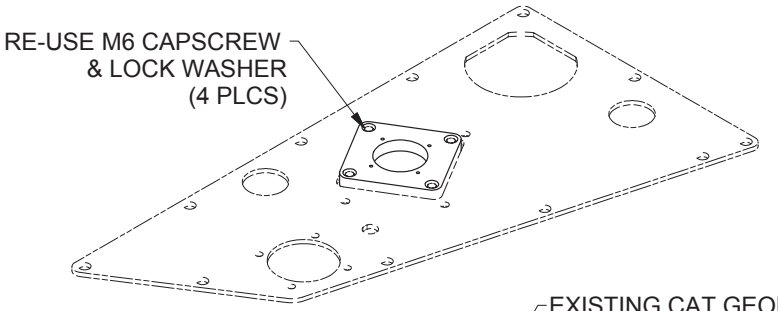
*a Use 245231 Locktite
*b Use 318702W Thread Lock

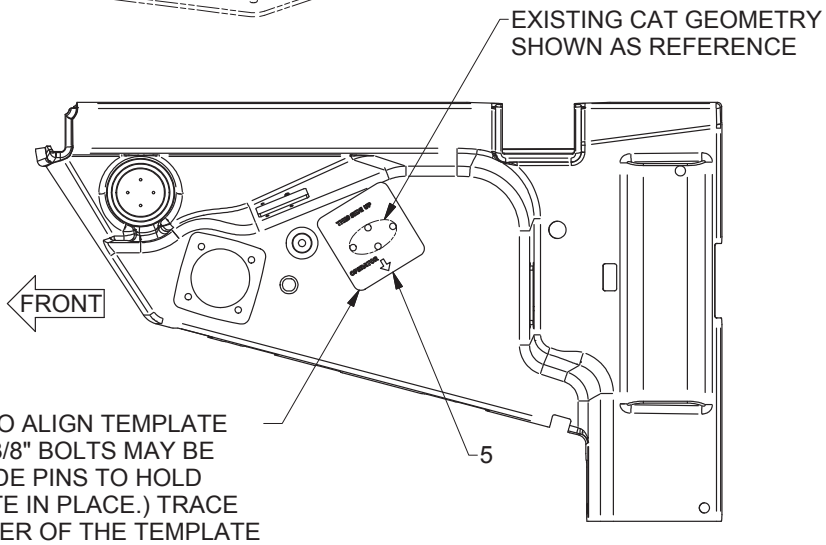
Control Lever Conversion Kit, Electronic Controls

Caterpillar D6T (Tier III to Tier 4i) (C71)

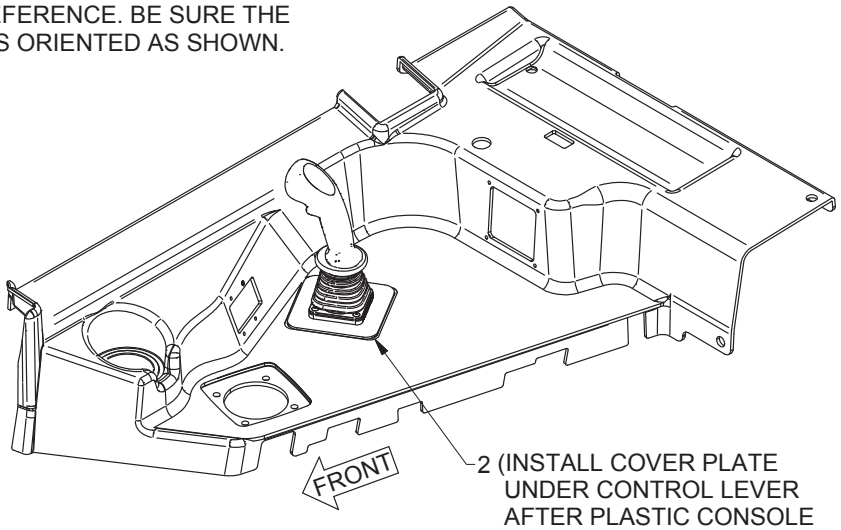
Page 1 of 2







USE HOLES TO ALIGN TEMPLATE AS SHOWN. (3/8" BOLTS MAY BE USED AS GUIDE PINS TO HOLD THE TEMPLATE IN PLACE.) TRACE THE PERIMETER OF THE TEMPLATE FOR A REFERENCE. BE SURE THE ARROW IS ORIENTED AS SHOWN.



Control Lever Conversion Kit, Electronic Controls

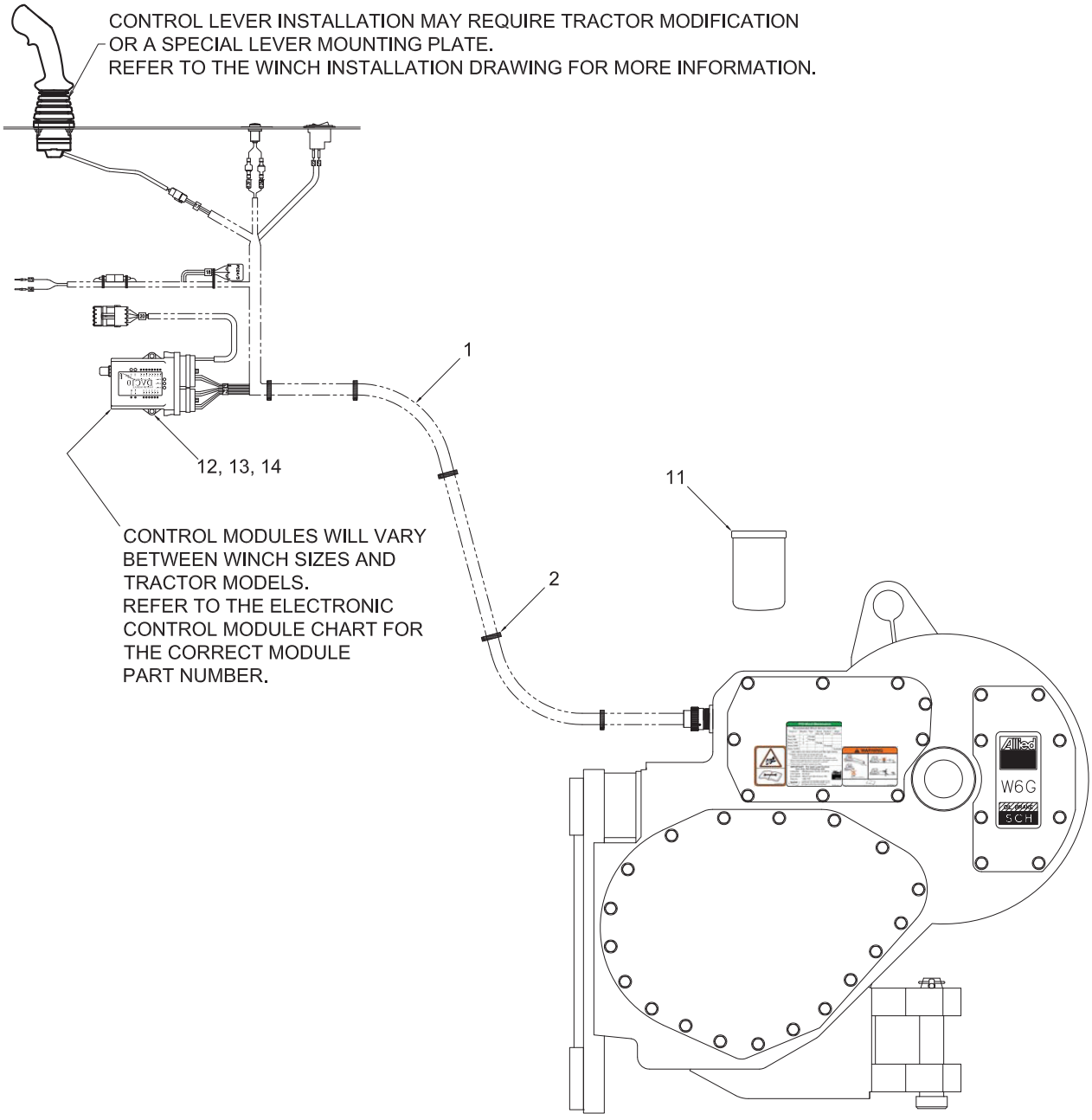
Caterpillar D6T (Tier III to Tier 4i) (C71)

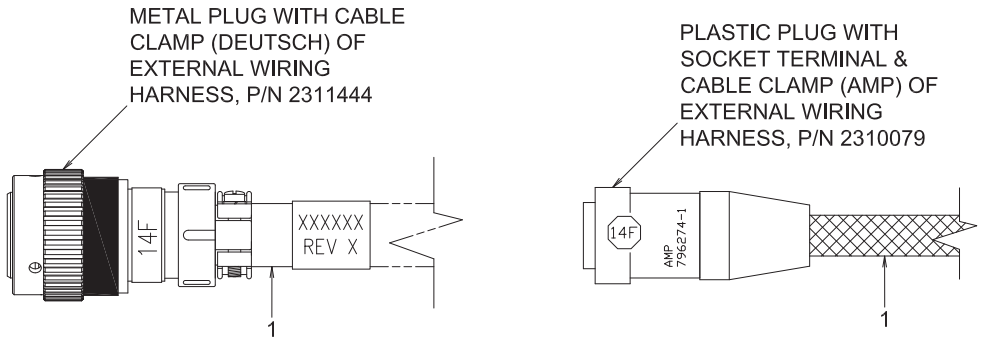
Item	Part No.	Description	Qty
	2313764	**Kit, D6T Tire 4i Control Lever Parts**	**1**
1	2313753	. Mounting, Control Lever	1
2	2313761	. Plate, Control Lever Cover	1
3	296420W	. Washer	3
4	293628W	. Capscrew	3
5	2315359	. Template, Console	1

Common Parts, Electronic Controls

First Used on S/N AW6G-1764

Page 1 of 2





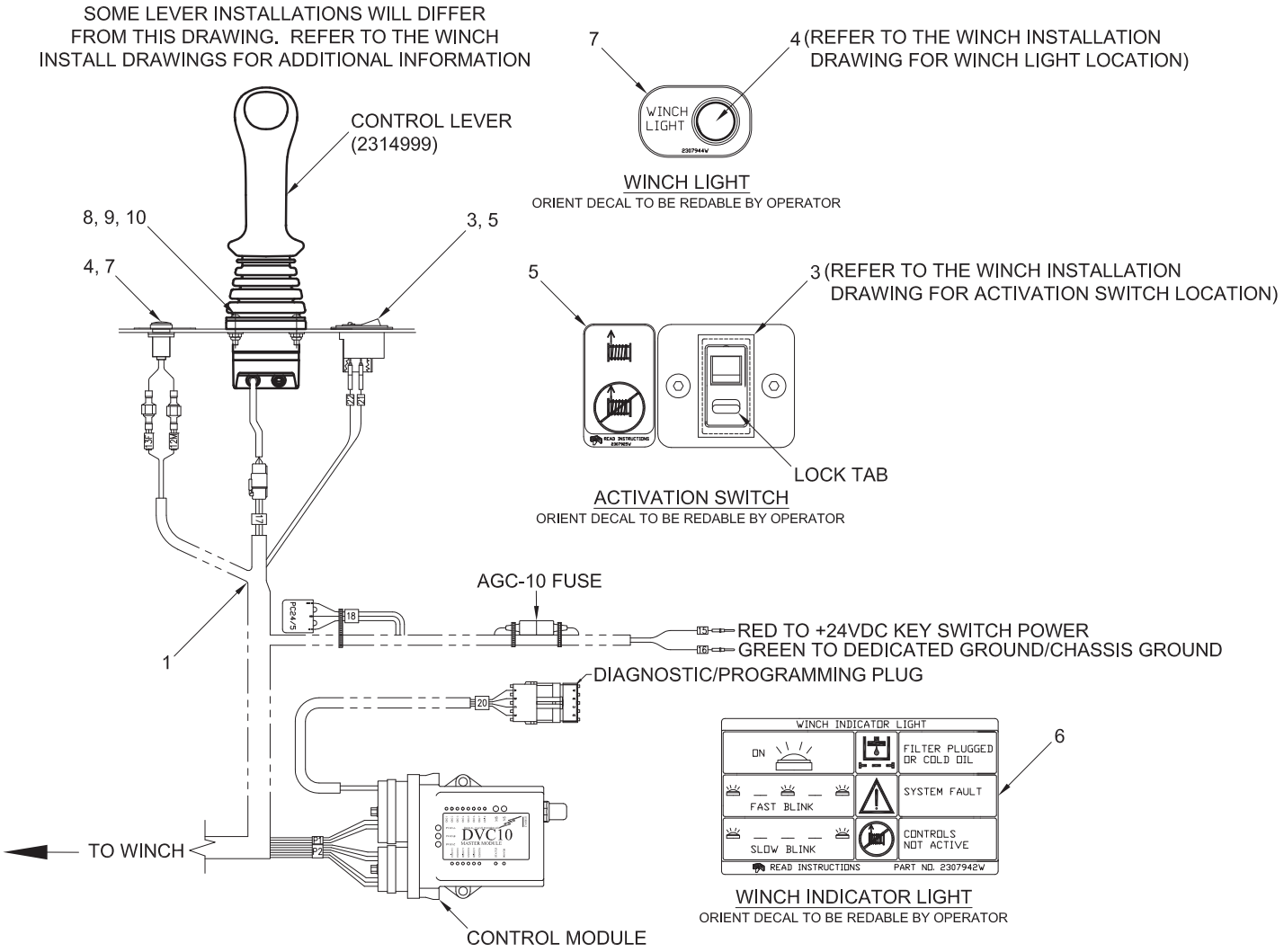
WIRING HARNESS PLUG IDENTIFICATION

(ORDER DEFERENT HARNESS OR KIT BASED ON THE DEFFERENT PLUG)

Common Parts, Electronic Controls

First Used on S/N AW6G-1764

Page 2 of 2



Item		Part No.	Description	Qty
1	*a	2311444	Harness, Wiring - EXT.	1
	*b	2312313	Kit, External Harness Replacement	1
		2310079	. Harness, External Wiring	1
		2312150	. Adapter	1
		2304796W	. Tape, Self Fusing	1
2		137852W	Tie, Cable - Black	10
3		2307849W	Assembly, Rocker Switch	1
4		2303912W	Assembly, Bypass LED	1
5		2307925W	Decal, Switch Activation	1
6		2307942W	Decal, Winch Light Indicator	1
7		2307944W	Decal, Winch Light	1

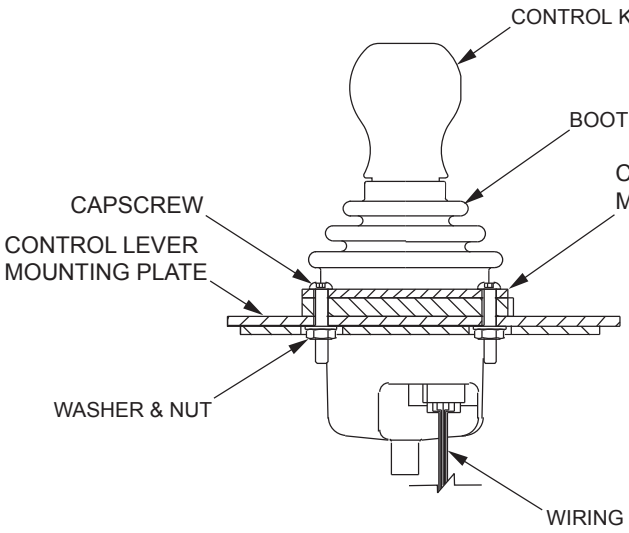
Item	Part No.	Description	Qty
8	Y25G-(1024)16	Capscrew	4
9	Y35E-#10	Washer	4
10	224191	Nut	4
11	2304112W	Element, Filter	1
12	221763W	Washer	4
13	15113W	Nut	2
14	R13801782	Capscrew	2

*a Metal Deutsch Connector sealing Plug

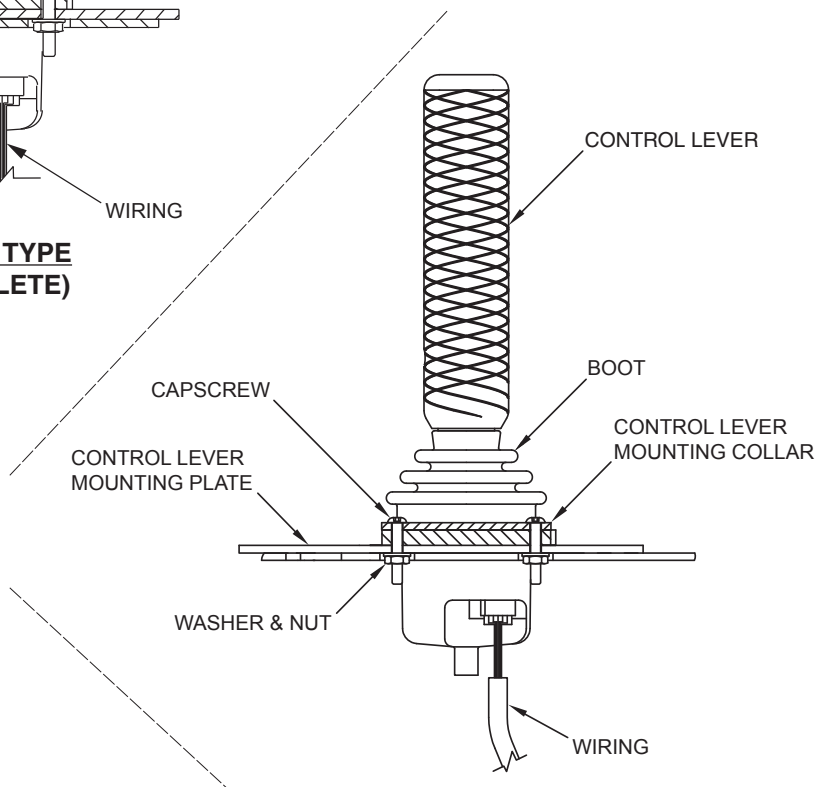
*b Plastic AMP Plug

Control Lever Replacement Kit, Electronic Controls

Page 1 of 2



OLDER TYPE
(OBSOLETE)



OLD TYPE
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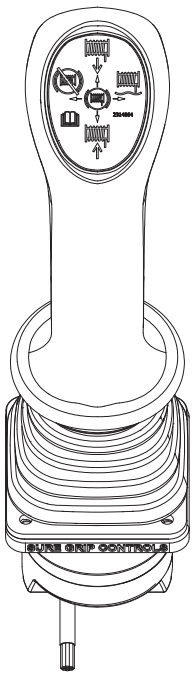
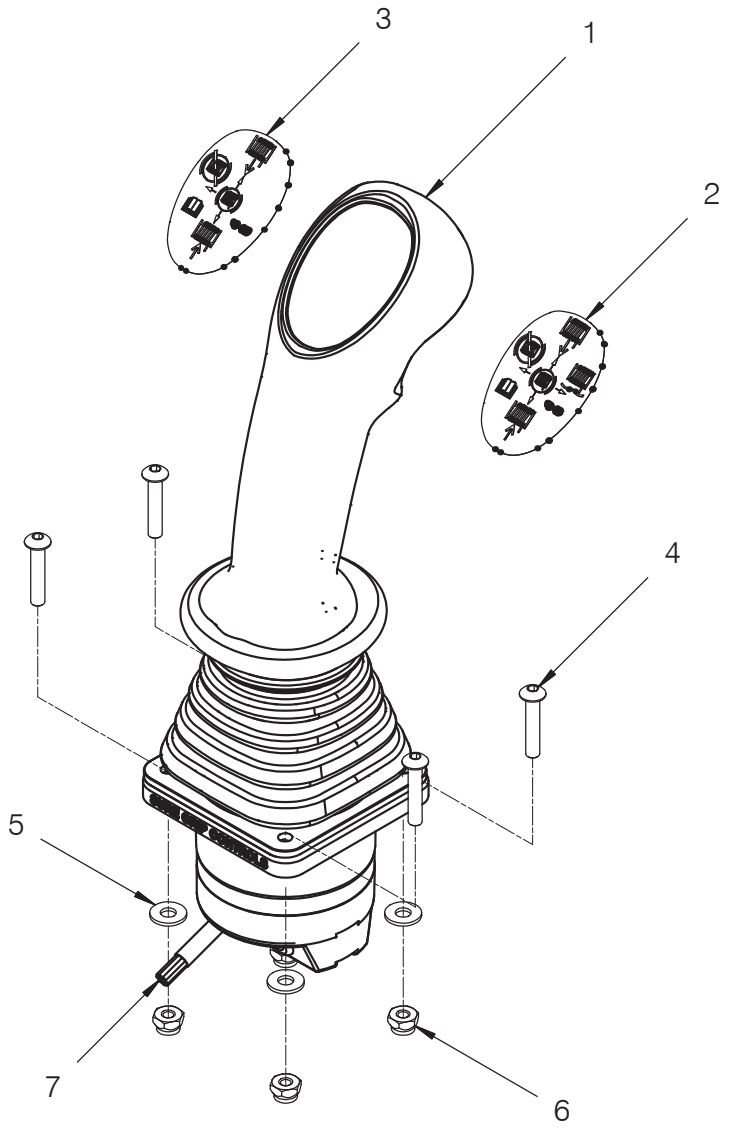
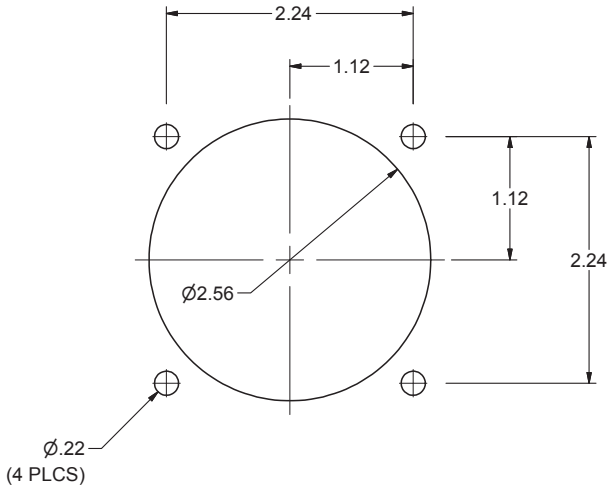


NEW TYPE
(CURRENT)

USE THIS CONTROL LEVER FOR ALL ELECTRONIC CONTROLS APPLICATIONS.
(SEE NEXT PAGE FOR DETAILS.)

Control Lever Replacement Kit, Electronic Controls





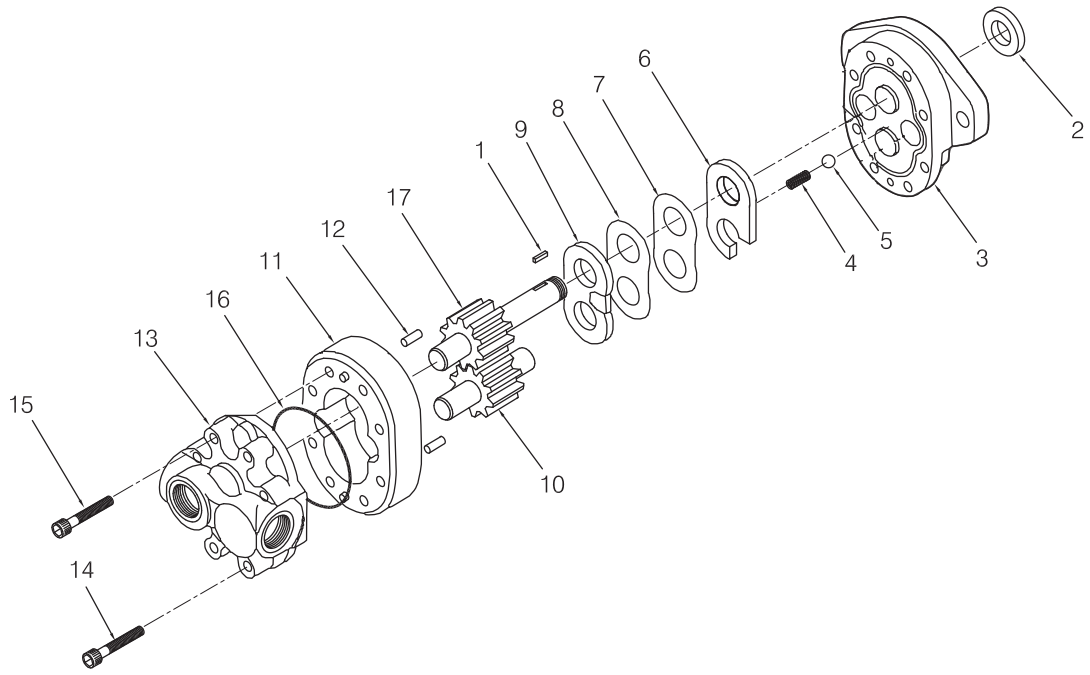
TYPICAL DASHBOARD CUTOUT

Item	Part No.	Description	Qty
	2314999	**Kit, E-Control Lever Replacement**	**1**
1	2314854	. Lever, Control	1
2	2314864	. Decal, Control Lever - W/ FS	1
3	2314863	. Decal, Control Lever - W/O FS	1
4	Y25G-(1024)16	. Capscrew	4
5	Y35E-#10	. Washer	4
6	224191	. Nut	4
7	2310076	. Adapter, Electrical	1

Hydraulic Pump

Last Used on S/N AW6G-1016
(See Chart for Applications)

Tractor Model	Tractor Code
Caterpillar D6D, D6E, D6F, D6H, D6R, D6T	C43, C480, C481, C50, C71
Dresser/Dressta TD15E, TD15H, TD15M	H44, H45, H46, 47
John Deere 750, 750B, 750C; 850, 850B, 850C	E41, E42, E43, E44, E45, E46

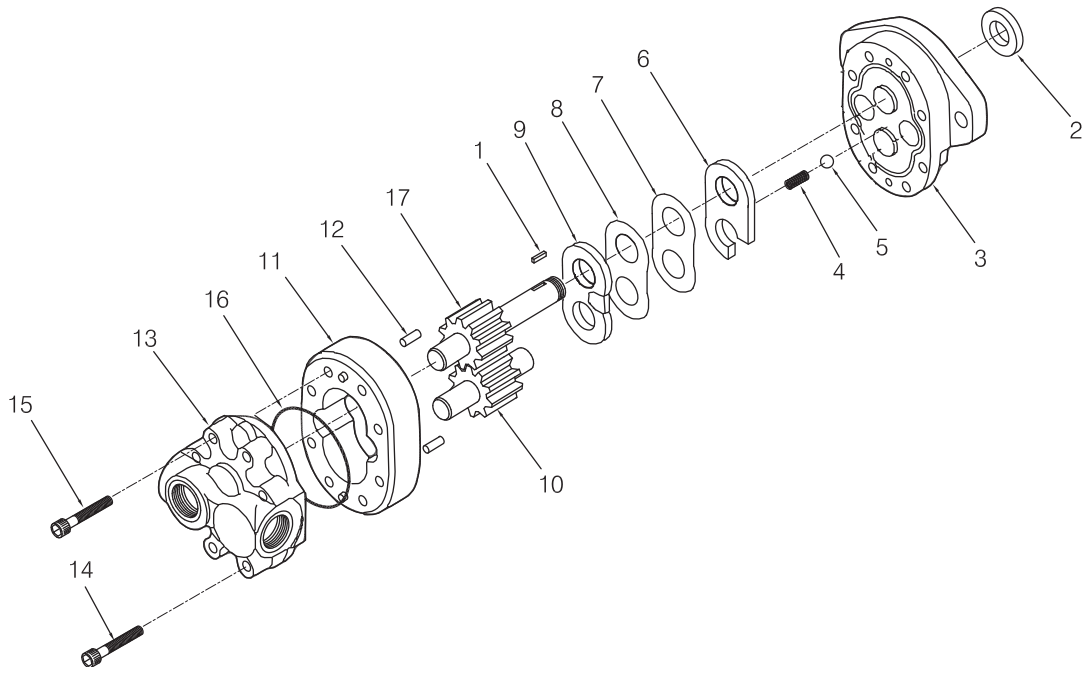


Item		Part No.	Description	Qty
		314833W	**Assembly, Gear Pump**	**1**
1		316823W	. Key	1
2	*a	NSS	. Seal	1
3		NSS	. Plate, Front	1
4	*a	NSS	. Spring	2
5	*a	NSS	. Ball	2
6	*a	NSS	. Seal, Diaphragm	1
7	*a	NSS	. Gasket	1
8	*a	NSS	. Gasket, Backup	1
9	*a	NSS	. Diaphragm	1
10		NSS	. Gear, Idler	1
11		NSS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

Hydraulic Pump

Last Used on S/N AW6G-1016
(See Chart for Applications)

Tractor Model	Tractor Code
Fiat-Hitachi/New Holland FD/FH 14E, DX/FD175/195, DC180	A48, A49
Komatsu D65EX-12/15, D65EX-15EO, D65WX-15EO, D61EX12/15	K46, K47



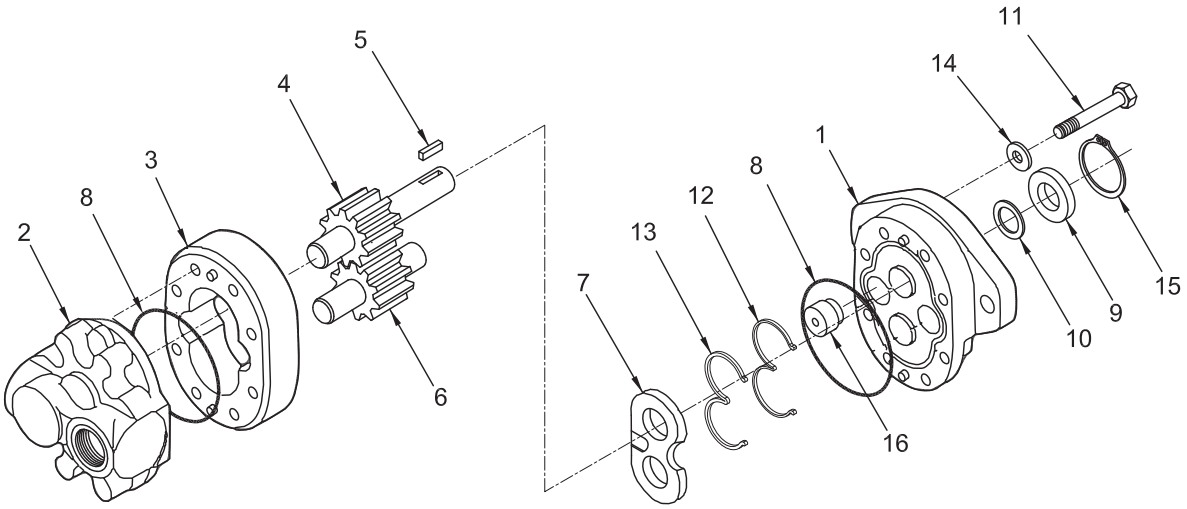
Item		Part No.	Description	Qty
		2301426W	**Assembly, Gear Pump**	**1**
1		316823W	. Key	1
2	*a	NSS	. Seal	1
3		NSS	. Plate, Front	1
4	*a	NSS	. Spring	2
5	*a	NSS	. Ball	2
6	*a	NSS	. Seal, Diaphragm	1
7	*a	NSS	. Gasket	1
8	*a	NSS	. Gasket, Backup	1
9	*a	NSS	. Diaphragm	1
10		NSS	. Gear, Idler	1
11		- - - - - - - -	. Body	1
12		NSS	. Pin, Dowel	2
13		- - - - - - - -	. Plate, Back	1
14		NSS	. Capscrew	4
15		NSS	. Capscrew	4
16	*a	NSS	. O-Ring	1
17		NSS	. Gear, Drive	1

*a Included in 171252W Repair Kit

Hydraulic Pump

First Used on S/N AW6G-1017
(See Chart for Applications)

Tractor Model	Tractor Code
Case Quadtrac, 1850K	R39, R49
Caterpillar D6D, D6E, D6G, D6H, D6R Series I, II, III, D6T, D6N	C43, C480, C481, C50, C71, C78, C81
Dresser/Dressta TD15E, TD15H PS, TD15M	H44, H45, H46, H47
John Deere 750, 750B, 750C Series I & II; 850, 850B, 850C Series I & II	E41, E42, E43, E44, E45, E46

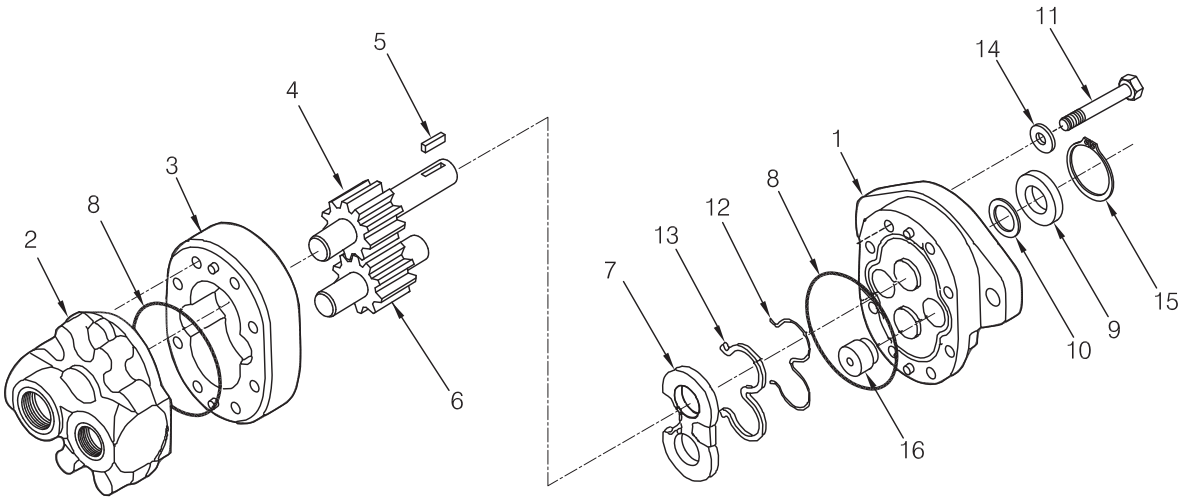


Item		Part No.	Description	Qty
		2302963W	**Assembly, Gear Pump**	**1**
1		NSS	. Plate, Front	1
2		NSS	. Plate, Back	1
3		NSS	. Body	1
4		NSS	. Gear, Drive	1
5		316823W	. Key	1
6		NSS	. Gear, Idler	1
7	*a	NSS	. Plate, Wear	1
8	*a	NSS	. O-Ring	1
9	*a	NSS	. Seal	1
10	*a	NSS	. Washer	1
11		NSS	. Capscrew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

Hydraulic Pump

First Used on S/N AW6G-1017
(See Chart for Applications)

Tractor Model	Tractor Code
Case 1850K	R49
Fiat-Hitachi/New Holland DC180, DX175/195, FD/FH 14E, FD175/195,	A48, A49
Komatsu D65EX-12/15, D61EX-12/15	K46, K47



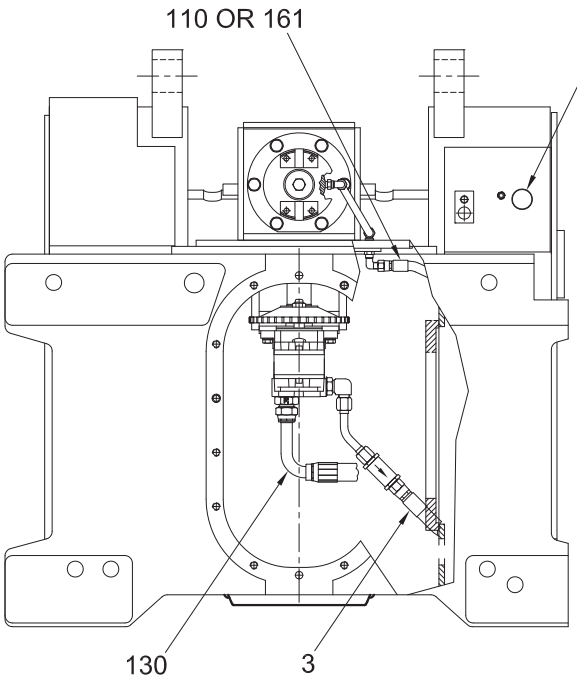
Item		Part No.	Description	Qty
		2302989W	**Assembly, Gear Pump**	**1**
1		NSS	. Plate, Front	1
2		NSS	. Plate, Back	1
3		NSS	. Body	1
4		NSS	. Gear, Drive	1
5		316823W	. Key	1
6		NSS	. Gear, Idler	1
7	*a	NSS	. Plate, Wear	1
8	*a	NSS	. O-Ring	1
9	*a	NSS	. Seal	1
10	*a	NSS	. Washer	1
11		NSS	. Capscrew	4
12	*a	NSS	. Gasket	1
13	*a	NSS	. Seal	1
14		NSS	. Washer	4
15		NSS	. Ring, Retaining	1
16		NSS	. Plug	1

*a Included in 2302937W Repair Kit

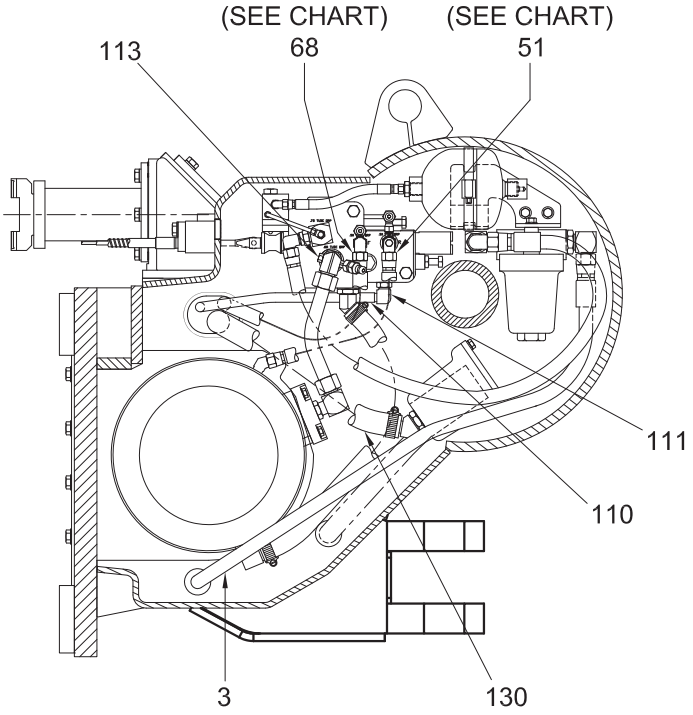
Plumbing Modifications

Case Quadtrac (R39)
Last Used on S/N AW6G-2018

* ROUTE HOSE TO VALVE PORT LABELED AS BELOW		
UNIT	ITEM #51	ITEM #68
R39	FWD	REV



FRONT VIEW
PUMP HOSES
POWER CONTROLS
&
ELECTRONIC CONTROLS



LEFT HAND SIDE VIEW
(LUBE FOR DROP BOX)
POWER CONTROLS ONLY

Item		Part No.	Description	Qty
3		2300767W	Assembly, Hose	1
51		133943W	Assembly, Hose	1
63	*a	2304823W	Plug	1
68		2300767W	Assembly, Hose	1
110		109002W	Assembly, Hose	1
111	*b	17689W	Fitting	1
	*c	23396	Fitting	1

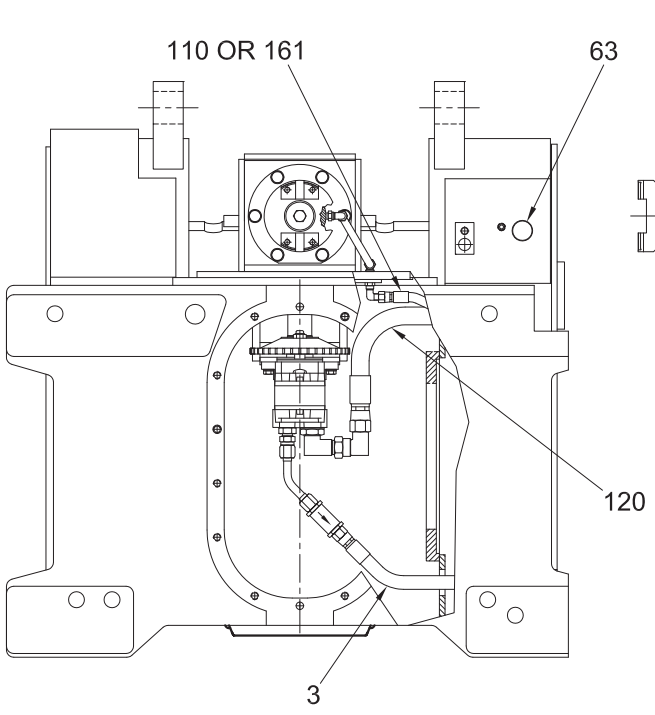
Item		Part No.	Description	Qty
113	*a	209511	Fitting	1
130		2305394W	Assembly, Hose	1
161		2305586W	Assembly, Hose	1

*a Use 257291W Adhesive
*b Last Used on S/N AW6G-1867
*c First Used on S/N AW6G-1868

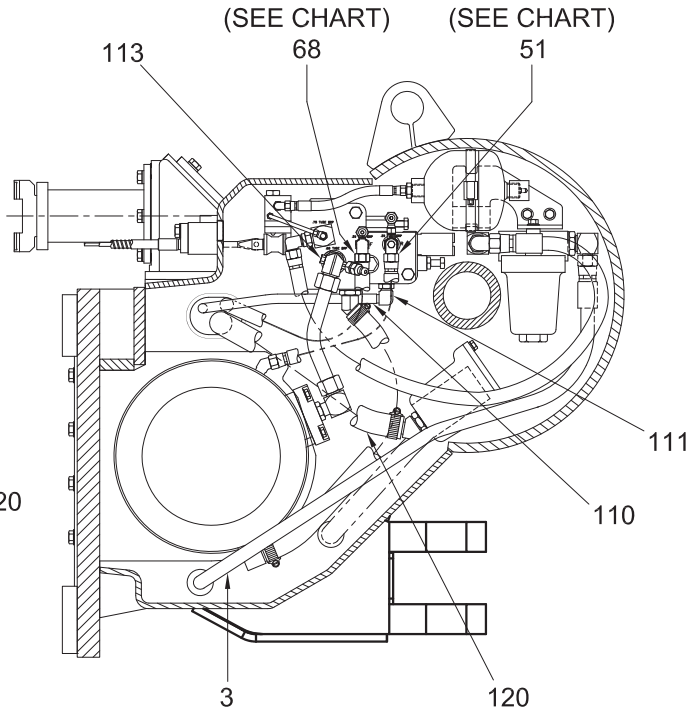
Plumbing Modifications

Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
Last Used on S/N AW6G-2018

* ROUTE HOSE TO VALVE PORT LABELED AS BELOW		
UNIT	ITEM #51	ITEM #68
K46/K47	REV	FWD



FRONT VIEW
PUMP HOSES
POWER CONTROLS
&
ELECTRONIC CONTROLS



LEFT HAND SIDE VIEW
(LUBE FOR DROP BOX)
POWER CONTROLS ONLY

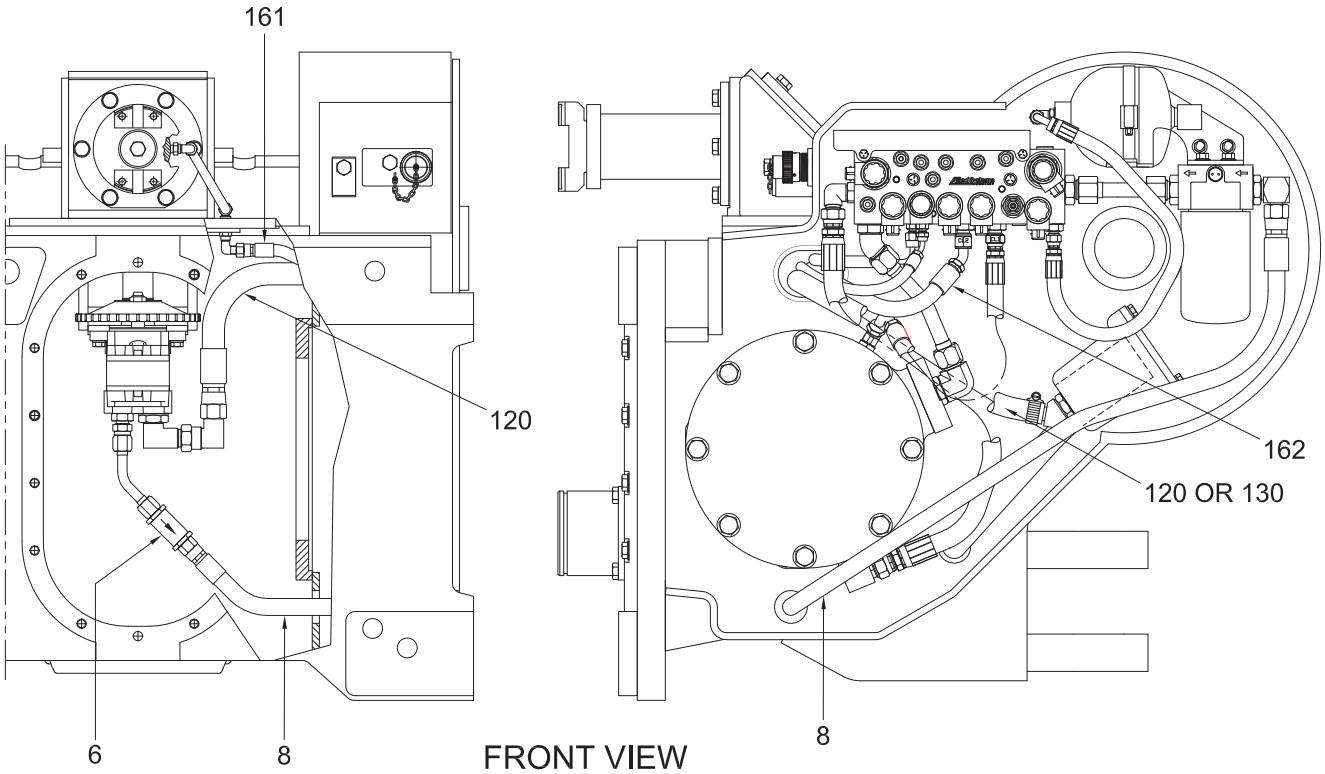
Item		Part No.	Description	Qty
3		2300767W	Assembly, Hose	1
51		133943W	Assembly, Hose	1
63	*a	2304823W	Plug	1
68		2300767W	Assembly, Hose	1
110		109002W	Assembly, Hose	1
111	*b	17689W	Fitting	1
	*c	23396	Fitting	1

Item		Part No.	Description	Qty
113	*a	209511	Fitting	1
120		2301646W	Assembly, Hose	1
161		2305586W	Assembly, Hose	1

*a Use 257291W Adhesive
*b Last Used on S/N AW6G-1867
*c First Used on S/N AW6G-1868

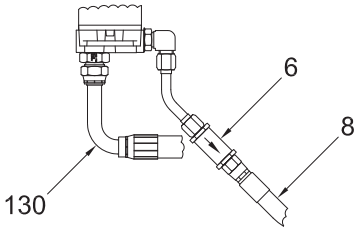
Plumbing Modifications

Case Quadtrac (R39)
Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
First Used on S/N AW6G-2019

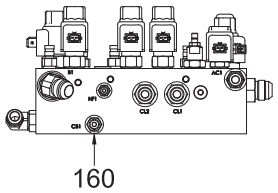


FRONT VIEW

PLUMBING MODIFICATIONS FOR
KOM D61EX-12 (K47), D65EX-12 (K46),
& CASE QUADTRAC (R39)



QUADTRAC (R39) ONLY



PTO LUBRICATION FROM
PORT CB1

Plumbing Modifications

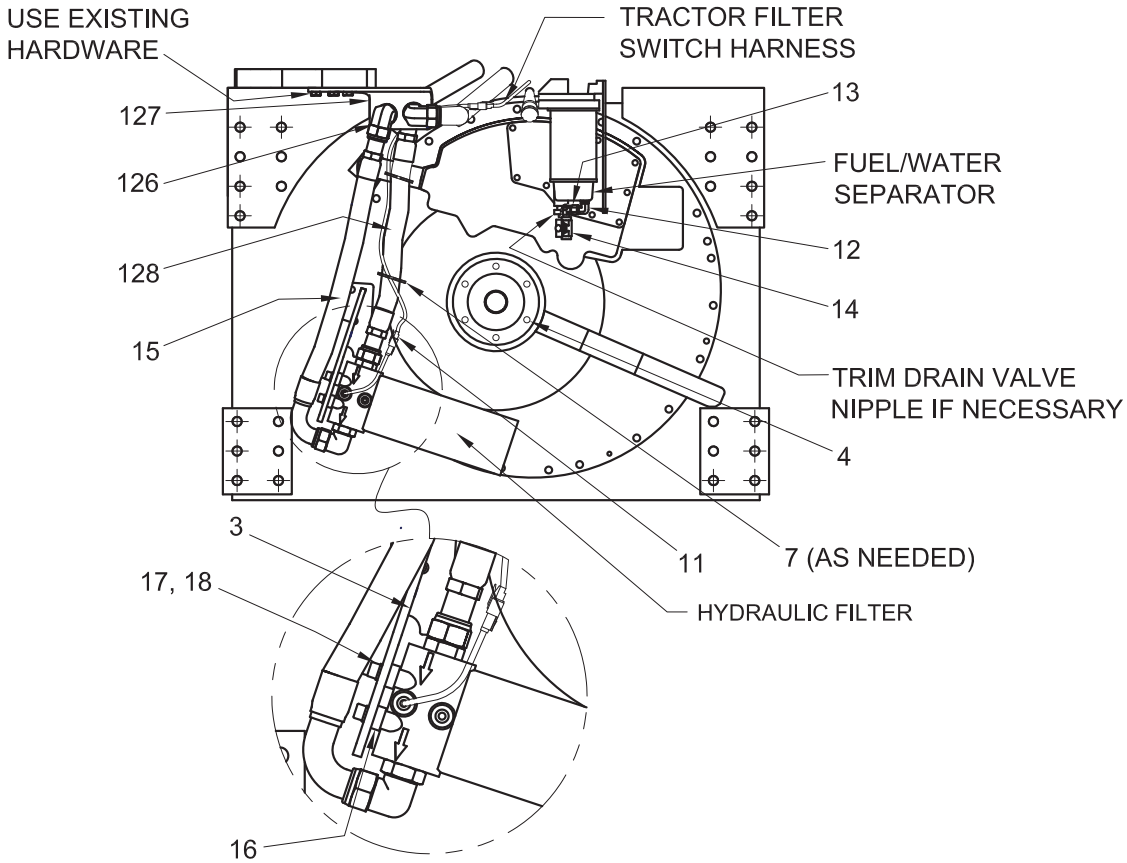
Case Quadtrac (R39)
Komatsu D65EX-12/15 (K46) , D61EX-12/15 (K47)
First Used on S/N AW6G-2019

Item		Part No.	Description	Qty
6		2300758W	Valve, Check	1
8		2300767W	Assembly, Hose	1
120	*a	2301646W	Assembly, Hose	1
130	*b	2305394W	Assembly, Hose	1
160		17753W	Fitting	1
161		2305586W	Assembly, Hose	1
162		2310666	Assembly, Hose	1

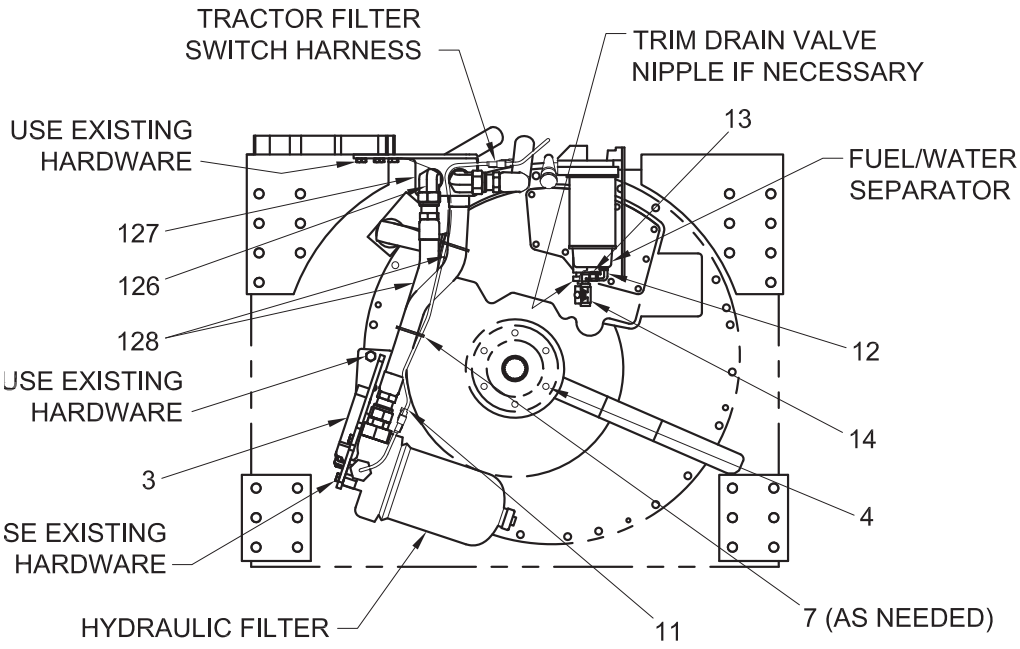
*a KOM D65EX-12 (K46) & D61EX-12 (K47) Only
*b Case Quadtrac (R39) Only

Tractor Filter Relocation

Winch Ready & Non Winch Ready
Caterpillar D6N (C47, C78)
Page 1 of 2



NON WINCH READY D6N FILTER RELOCATION
SPIN-ON FILTER



WINCH READY D6N FILTER RELOCATION
NON SPIN-ON FILTER

Tractor Filter Relocation

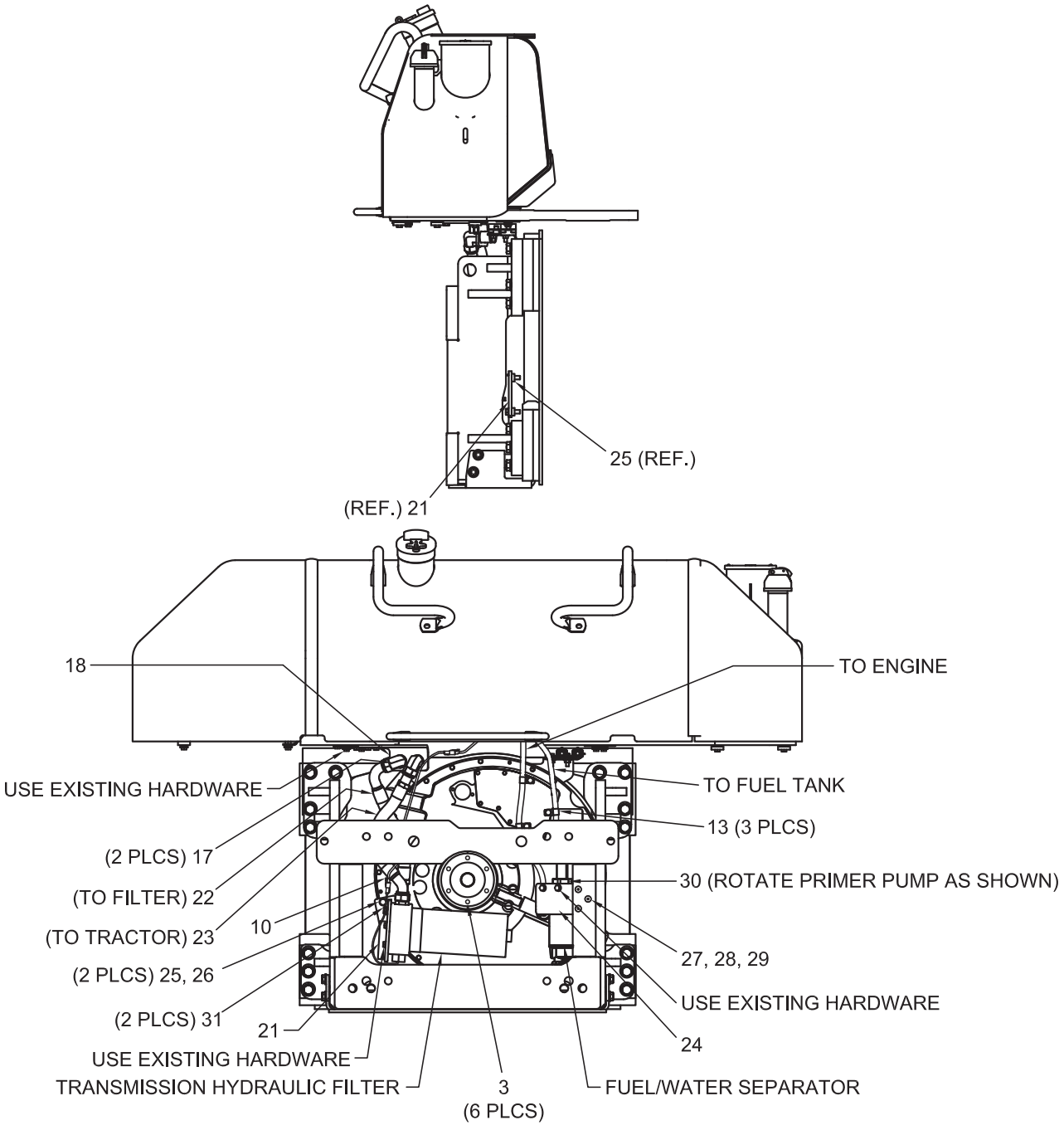
Winch Ready & Non Winch Ready
Caterpillar D6N (C47, C78)

Item	Part No.	Description	Qty
3	2306315W	Bracket, Filter	1
4	56995W	Plug	6
7	137852W	Clamp, Strap	6
11	2305617W	Harness, Filter	2
12	16557W	Fitting	1
13	2305616W	Fitting	1
14	211556	Valve, Needle	1
15	2306313W	Assembly, Hose	1
16	2306312W	Spacer	4
17	296027W	Capscrew	4
18	292682W	Washer	4
126	2305620W	Fitting	2
127	2305588W	Bracket, Fitting	1
128	2305613W	Assembly, Hose	2

Tractor Filter Relocation

Caterpillar D6N (C81)

Page 1 of 2



Tractor Filter Relocation

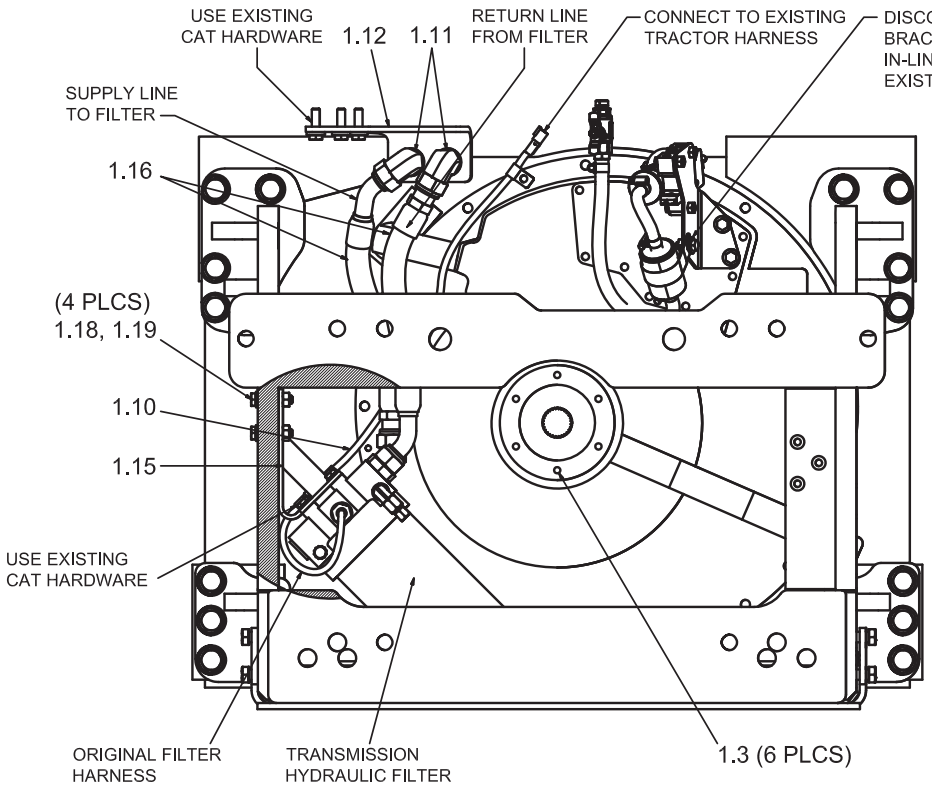
Caterpillar D6N (C81)

Item	Part No.	Description	Qty
3	56995W	Plug	6
10	2305617W	Harness, Filter	1
13	2304503W	Retainer, Connector	3
17	2305620W	Fitting	2
18	2305588W	Bracket, Fitting	1
21	2307890W	Bracket, Filter	1
22	2307895W	Assembly, Hose	1
23	2307896W	Assembly, Hose	1

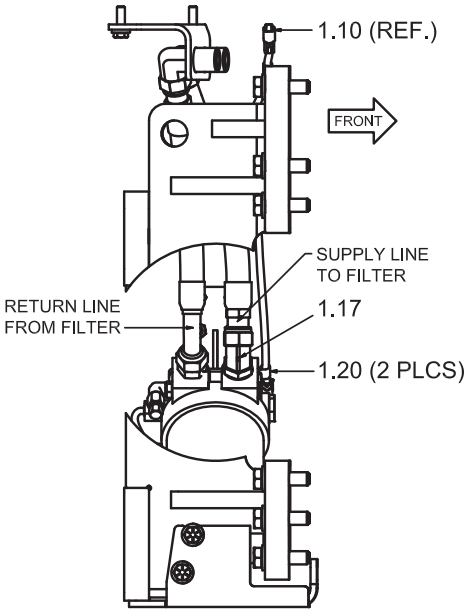
Item	Part No.	Description	Qty
24	2307894W	Plate, Mounting	1
25	2307893W	Spacer	2
26	293647W	Capscrew	2
27	Y09G-0616	Capscrew	3
28	15134W	Washer	3
29	15056W	Nut	3
30	2307911W	Gasket, Fuel Primer	1
31	243057	Clamp	2

Tractor Filter Relocation

Caterpillar D6N Tier 4i (C810)
S/N PREFIX: PBA & PER
For Tractors with & without Ripper or Dual Controls



TRACTOR REAR FACE



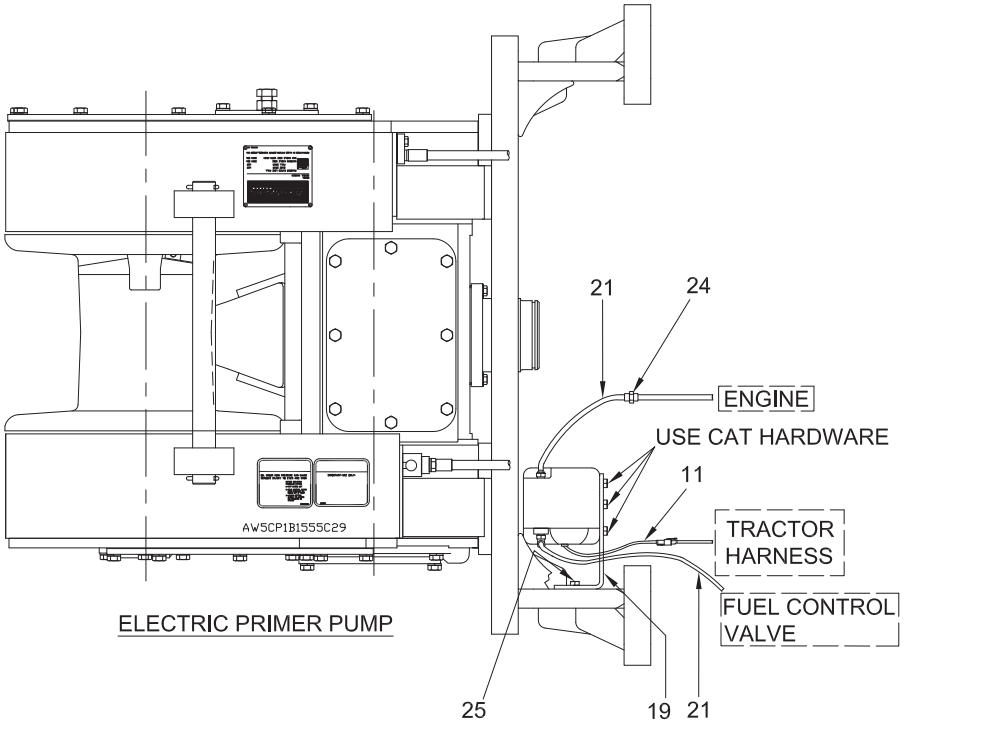
MOUNTING BRACKET
RIGHT HAND SIDE

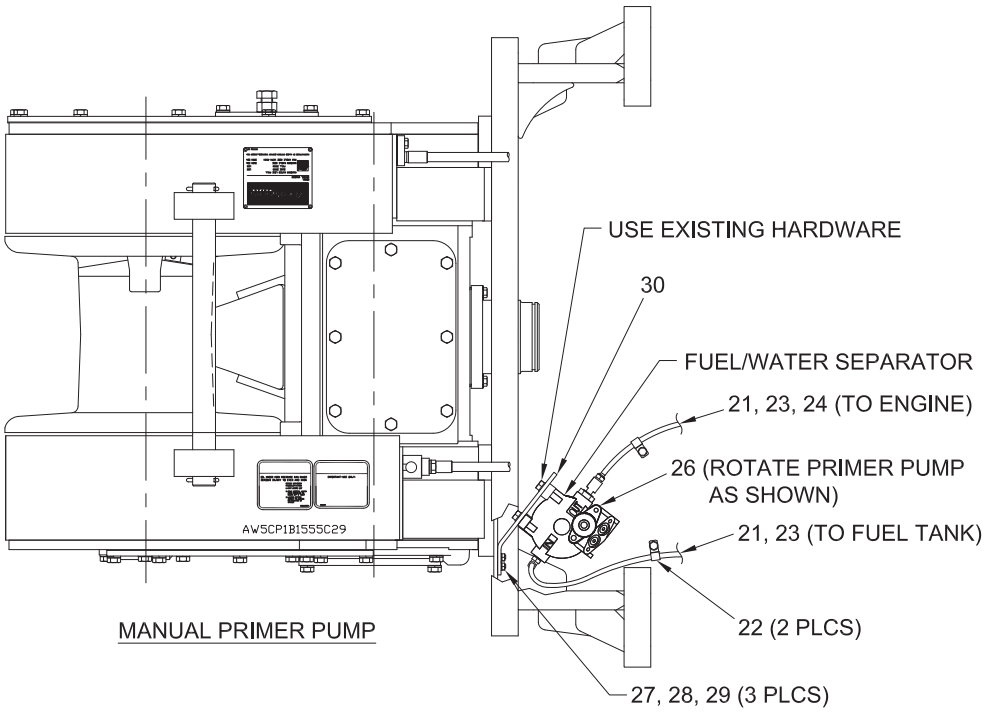
Item	Part No.	Description	Qty
1.3	56995W	Plug	6
1.10	2305617W	Harness, Filter	1
1.11	2305620W	Fitting	2
1.12	2305588W	Bracket, Fitting	1
1.15	2314735	Bracket, Mounting	1

Item	Part No.	Description	Qty
1.16	2314742	Assembly, Hose	2
1.17	R833217	Fitting	1
1.18	296422W	Washer	4
1.19	Y09C-M1255	Capscrew	4
1.20	243057	Clamp	2

Fuel/Water Separator Relocation

For Tractors with Electric Or Manual Primer Pump
Caterpillar D6N (C47, C78)



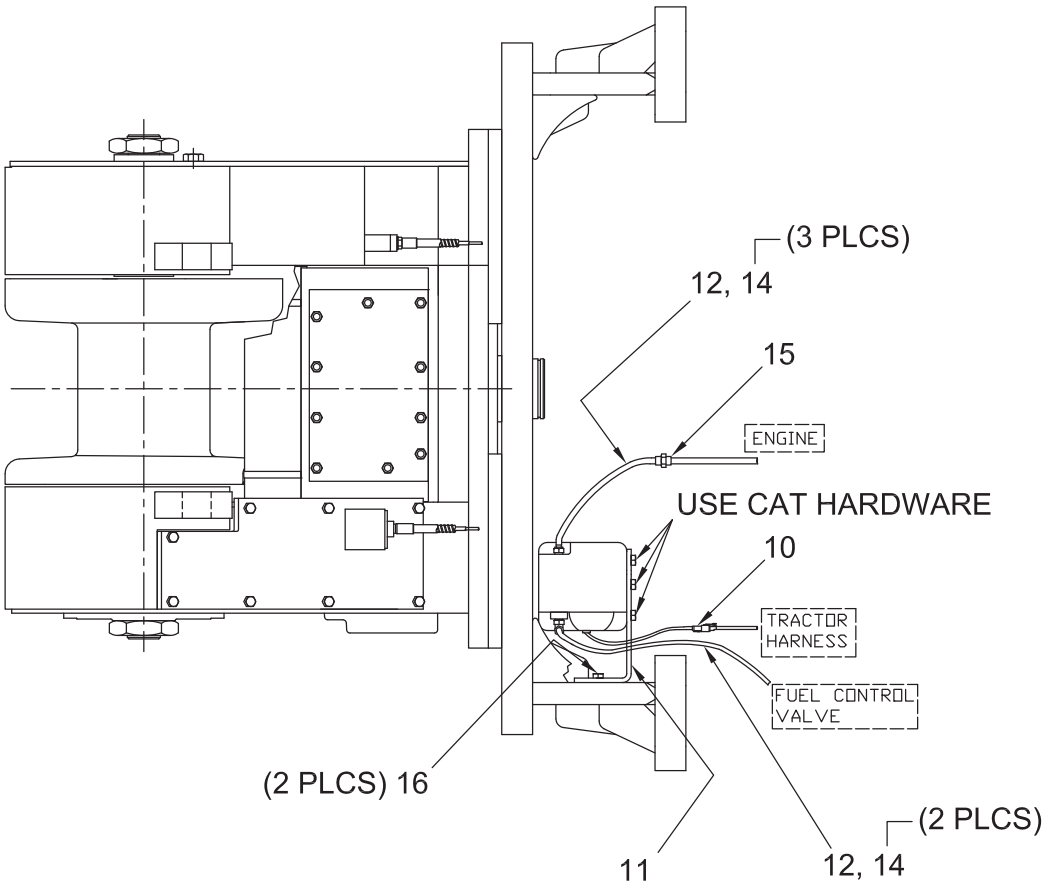


Item	Part No.	Description	Qty
11	2305617W	Harness, Filter	2
19	2306836W	Bracket, Mounting	1
21	2306857W	Hose, Fuel	1
22	387316W	Clamp, Insulated	2
23	166857W	Clamp	5
24	2306858W	Fitting	1

Item	Part No.	Description	Qty
25	18738W	Capscrew	2
26	2307911W	Gasket, Fuel Primer	1
27	Y09C-M1030	Capscrew	3
28	296420W	Washer	3
29	292655W	Nut	3
30	2307894W	Plate, Mounting	1

Fuel/Water Separator Relocation

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



Item	Part No.	Description	Qty
10	2305617W	Harness, Filter	1
11	2306836W	Bracket, Mounting	1
12	2306857W	Hose, Fuel	1
14	166857W	Clamp	5
15	2306858W	Fitting	1
16	18738W	Capscrew	2

Optional Equipment

Arch .....4-4 & 4-5

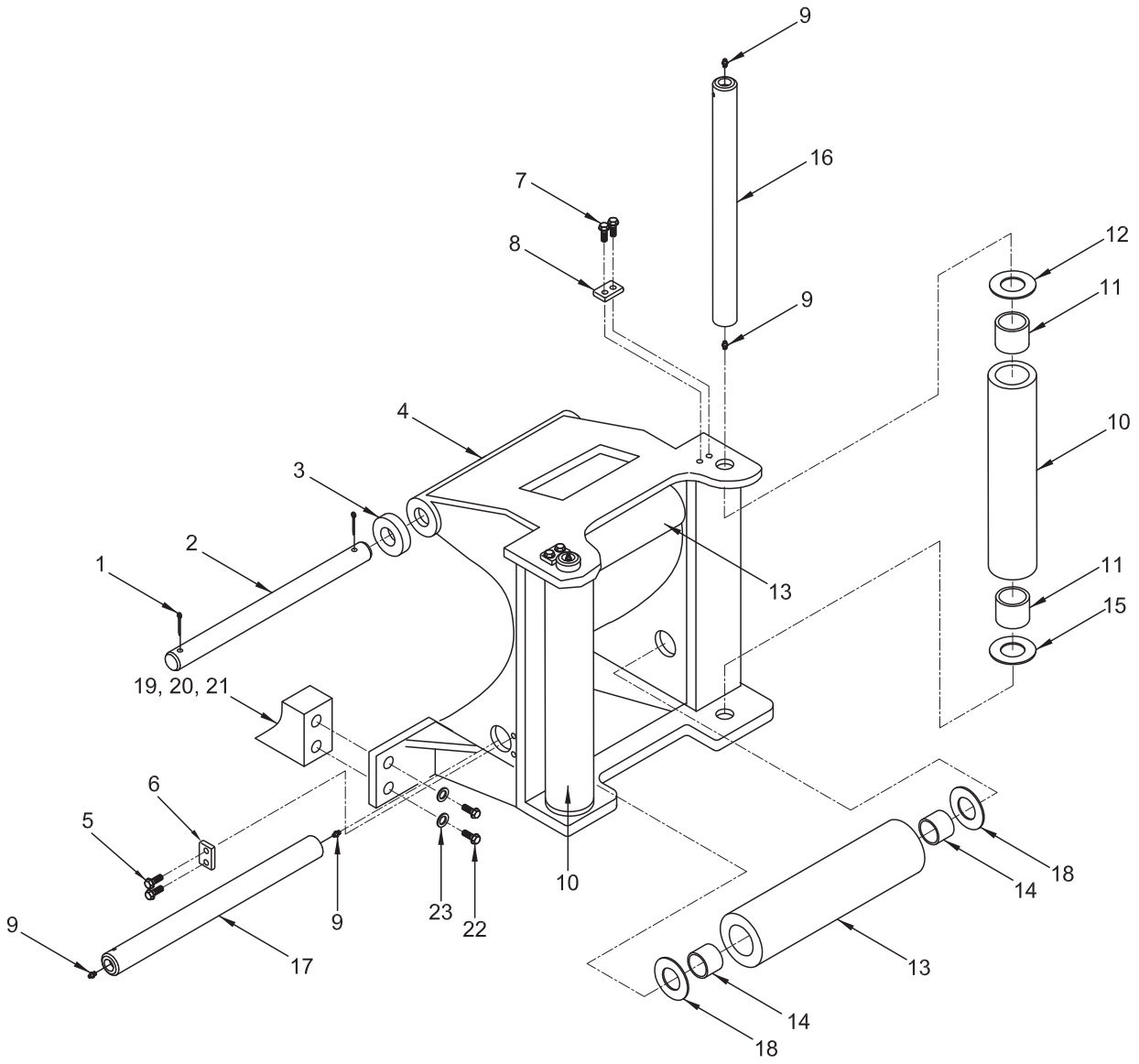
Extended Drawbar 4-6

Fairlead.....4-2 & 4-3

Wire Rope Assemblies..... 4-7

Fairlead

Last Used on S/N AW6G-1005

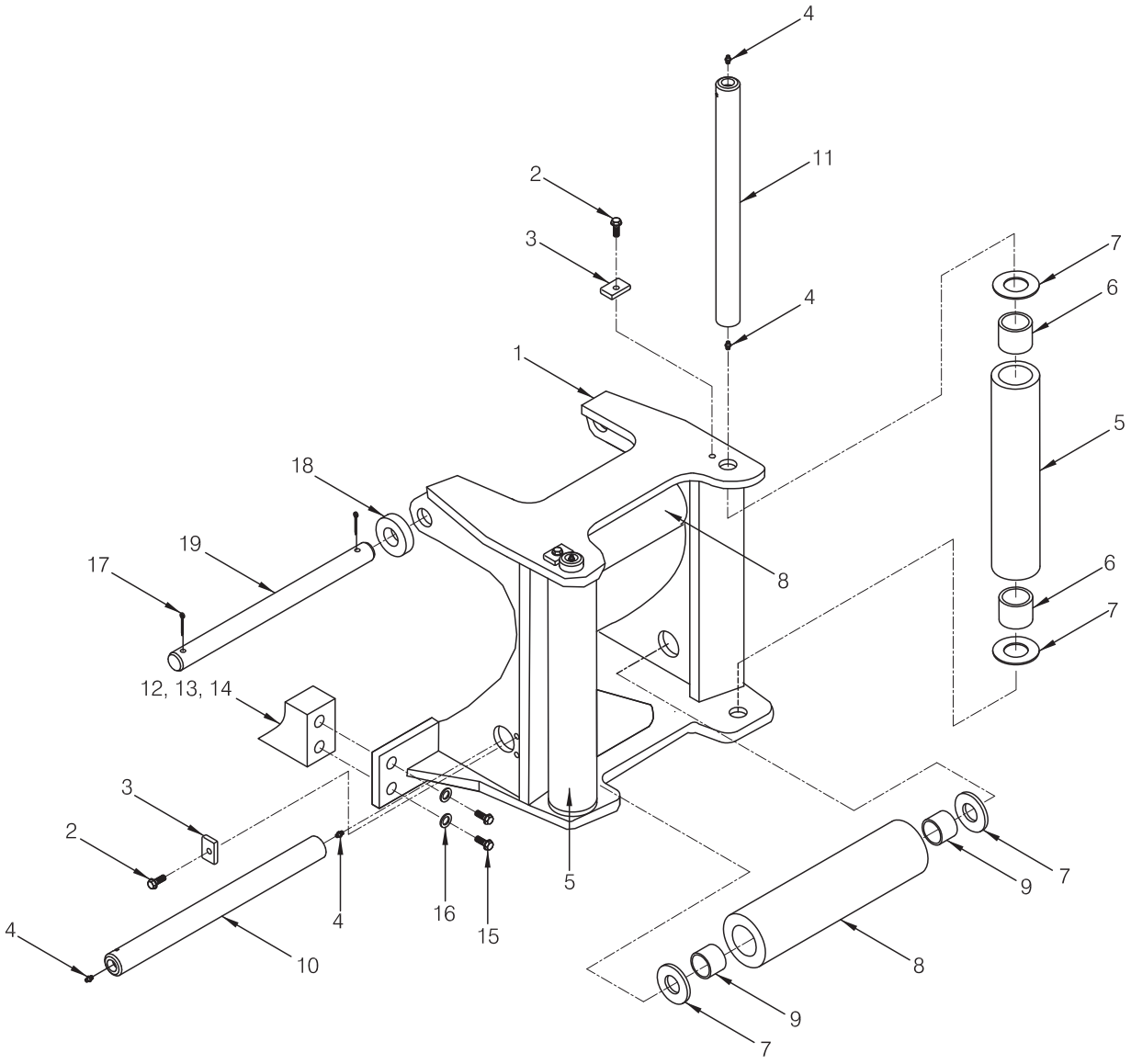


Item	Part No.	Description	Qty
1	15272W	Pin, Cotter	2
2	196280W	Rod, Tie	1
3	173607W	Spacer	2
4	152995W	Frame	1
5	398817W	Screw, Flange	4
6	93166W	Keeper	2
7	398817W	Screw, Flange	4
8	93166W	Keeper	2
9	16001W	Fitting, Grease	8
10	36206W	Roller, Vertical	2
11	2570W	. Bushing	2
12	33394W	Washer	2

Item	Part No.	Description	Qty
13	92212W	Roller	2
14	59419W	. Bushing	2
15	230336W	Bearing, Thrust	2
16	96087W	Shaft	2
17	96086W	Shaft	2
18	92720W	Washer	4
19	143292W	Bracket, RH	1
20	226374W	Bracket, LH	1
21	93878W	Shim .134	AR
22	18669W	Capscrew	4
23	15166W	Lockwasher	4

Fairlead

First Used on S/N AW6G-1006

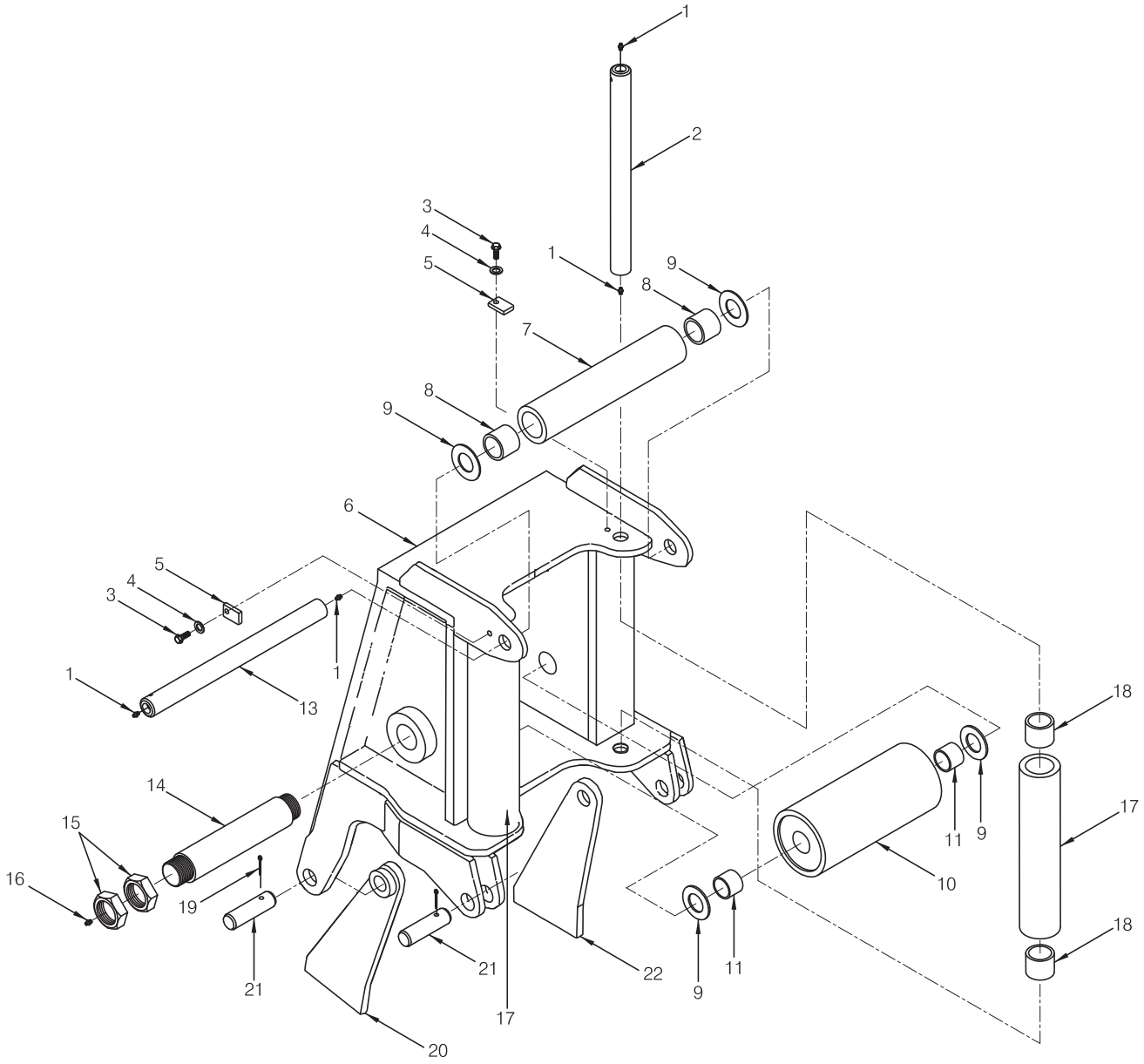


A - 3-Roller Fairlead
B - 4-Roller Fairlead

Item	Part No.	Description	Qty. A	Qty. B
	2301731W	**Assembly, Fairlead - 3-Roller**	**1**	**- -**
	2301732W	**Assembly, Fairlead - 4-Roller**	**- -**	**1**
1	2301718W	. Frame	1	1
2	398817W	. Screw, Flange	3	4
3	2301706W	. Keeper	3	4
4	16001W	. Fitting, Lube	6	8
5	2301726W	. Roller	2	2
6	2570W	. . Bushing	2	2
7	33394W	. Washer	6	8
8	2301727W	. Roller	1	2
9	2570W	. . Bushing	2	2
10	2301722W	. Shaft, Horizontal	1	2
11	2301721W	. Shaft, Vertical	2	2
12	143292W	Bracket, RH	1	1
13	226374W	Bracket, LH	1	1
14	93878W	Shim .134	AR	AR
15	18669W	Capscrew	4	4
16	15166W	Washer	4	4
17	15272W	Pin, Cotter	2	2
18	173607W	Spacer	2	2
19	196280W	Bar, Tie	1	1

Arch

Last Used on S/N AW6G-1002

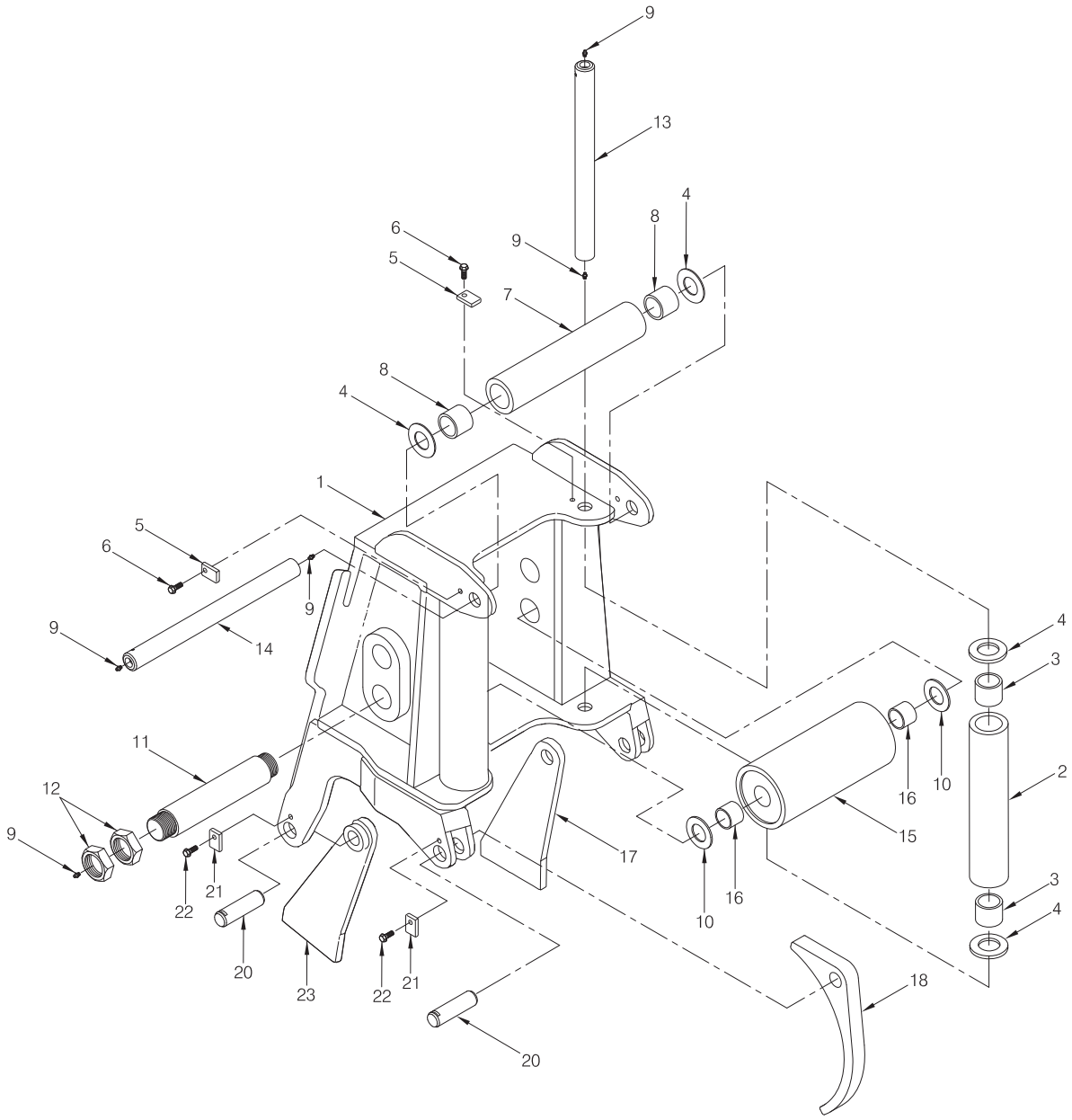


Item	Part No.	Description	Qty
1	16001W	Fitting, Grease	6
2	331751W	Shaft	2
3	18601W	Capscrew	3
4	15160W	Lockwasher	3
5	31541W	Plate, Lock	3
6	------	Frame, Arch	1
7	331752W	Roller	1
8	35135W	. Bushing	2
9	331767W	Washer	6
10	2816W	Roller	1
11	2817W	. Bushing	2

Item	Part No.	Description	Qty
12	2821W	Washer	2
13	331756W	Shaft	1
14	2300521W	Shaft	1
15	221336W	Nut	4
16	16002W	Fitting, Grease	2
17	331750W	Roller	2
18	35135W	. Bushing	4
19	15273W	Pin, Cotter	8
20	------	Plate, LH	1
21	328748W	Pin	4
22	------	Plate, RH	1

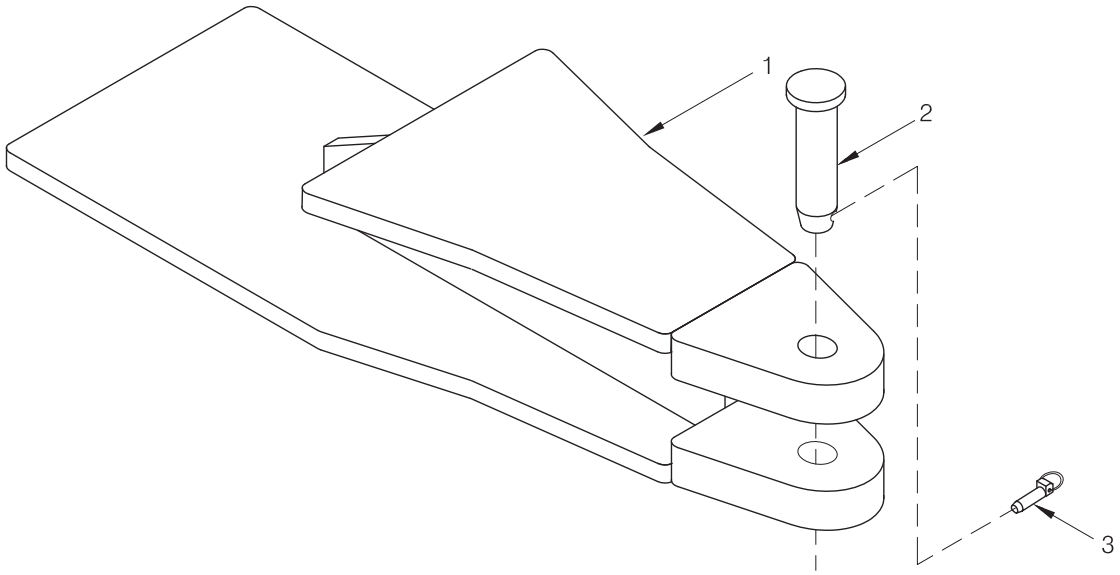
Arch

First Used on S/N AW6G-1003



Item	Part No.	Description	Qty
	2301748W	**Assembly, Arch**	**1**
1	2301749W	. Arch	1
2	2301907W	. Roller	2
3	35135W	. . Bushing	2
4	331767W	. Washer	6
5	2301706W	. Keeper	3
6	398817W	. Flange, Screw	3
7	2301910W	. Roller	1
8	35135W	. . Bushing	2
9	16001W	. Fitting, Grease	8
10	2821W	. Washer	2
11	2302120W	. Shaft	2
12	221336W	. Nut	4
13	2301920W	. Shaft	2
14	2301919W	. Shaft	1
15	2301925W	. Roller	1
16	2817W	. . Bushing	2
17	328740W	Ear, RH	1
18	2306380W	Lug, Wrapped	2
20	2301924W	Pin	4
21	2301706W	Keeper	4
22	398817W	Screw, Flange	4
23	328744W	Ear, LH	1

Extended Drawbar



Item	Part No.	Description	Qty
1	NSS	Drawbar	1
2	95959W	Pin, Drawbar	1
3	2303221W	Pin, Retaining	1

Wire Rope Assemblies

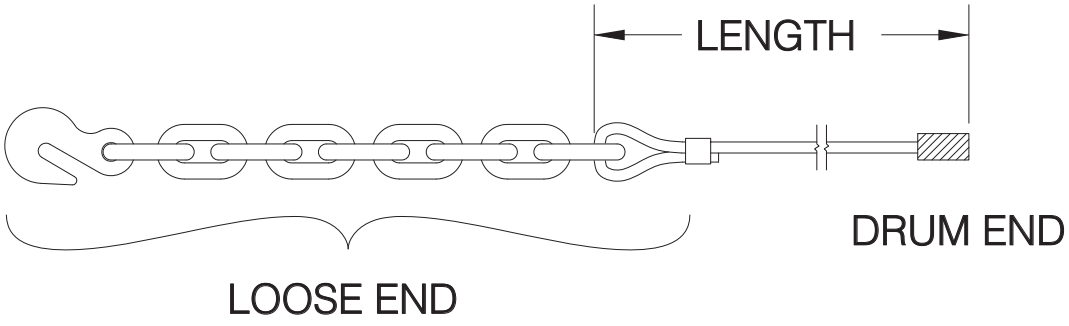


Figure A

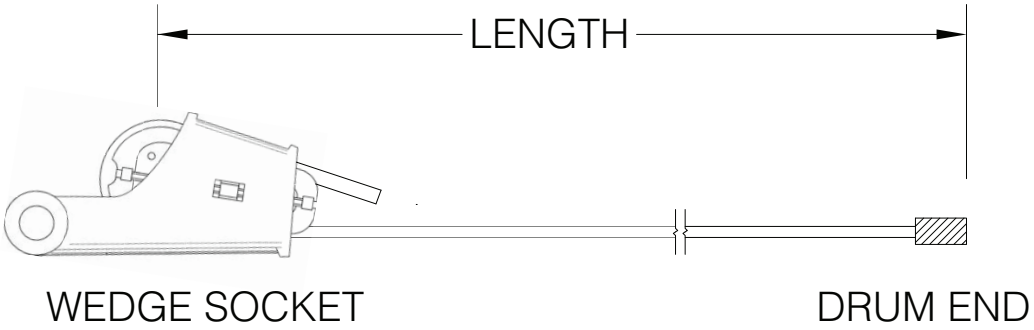


Figure B

Part No.		Wire Diameter	Length Ft (M)	
WR6-263L	*b	3/4"	263 (80)	*
WR6-399L	*b	3/4"	399 (122)	**
WR7-189L	*b	7/8"	189 (58)	*
WR7-287L	*b	7/8"	287 (87)	**
WR8-100L	*b	1"	100 (30)	*
WR8-147L	*a, *b	1"	147 (45)	*
WR8-223L	*a, *b	1"	223 (68)	**
YS8-210L WS	*c	1"	210 (64)	**

* Length to fill drum to 2/3 capacity (recommended)
** Length to fill drum to full capacity
*a Do not use with arch
*b WR Series Wire Rope (Illustrated in Figure A)
*c YS Series Wire Rope (Illustrated in Figure B)

Intentionally Blank

Recommended Service Kits

Recommended Winch Service Intervals 5-2

Recommended Service Kits Chart 5-3

• Filter Kit - 2311394 5-4

•Filter Kit - 2311167 5-5

•Filter Kit - 2311168 5-6

•Gasket Kit - 2302729W . . . . . .5-8 & 5-9

•Clutch Shaft Kit - 2311388. . . . . .5-10 & 5-11

•Brake Assembly Kit - 2311387 5-12

•Brake, Clutch, & Idler Shaft Bearing Kit - 2311389 . . . . . .5-14 & 5-15

•Drum & Intermediate Shaft Bearing & Seal Kit - 2311390 .5-16 & 5-17

•Drum & Intermediate Shaft Bearing & Seal Kit - 2311391 5-18

•Drum & Intermediate Shaft Bearing & Seal Kit - 2311392 5-19

•Drum & Intermediate Shaft Bearing & Seal Kit - 2311393 5-20

•Drum & Intermediate Shaft Bearing & Seal Kit - 2311392 5-21

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.

Allied WINCH

2311481 Rev C

Table 1 Recommended Winch Service Intervals

Recommended Service Kits

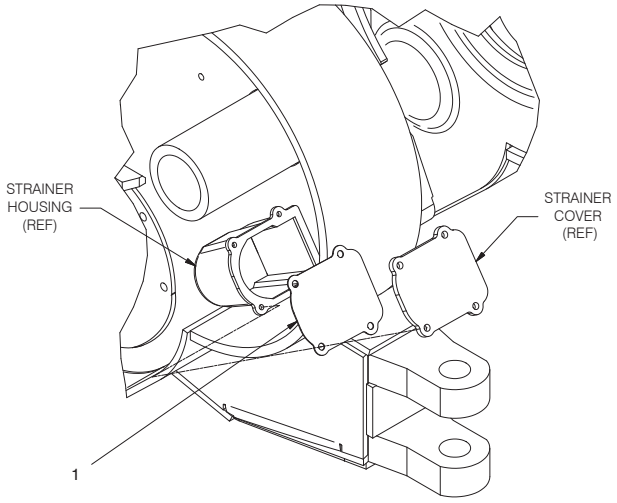
SERVICE KITS FOR W6G WINCHES					
Service Description	Kit Description	Winch Serial Number		Kit Part No. for Winches with Power Controls (P)	Kit Part No. for Winches with Electronic Controls (E)
Filter Change (First 250, then every 500 Hours)	Filter Kit	Last used AW6G-1027		2311394	2311168
		First used AW6G-1028		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		2302729W	
	Clutch Shaft Kit*	ALL		2311388	
	Brake Assembly Kit	ALL		2311387	
	Pump Assembly	Caterpillar, John Deere, and Dresser	Last used AW6G-1016	Order quantity 1 of each of the following: 2302963W, 2303677W, 88297W, 271729W	
			First used AW6G-1017	2302963W	
		Fiat Hitachi/ New Holland, Komatsu, and Case	Last used AW6G-1016	Order quantity 1 of each of the following: 2302989W, 2303677W, 88297W, 271729W	
			First used AW6G-1017	2302989W	
Major Overhaul (Every 10000 hours)	Brake, Clutch, and Idler Shaft Bearing Kit	ALL		2311389	
	Drum & Intermediate Shaft Bearing and Seal Kit	Non Freespool	ALL	2311390	
		Freespool	Last used AW6G-1015	2311391	
			Used AW6G-1016 thru AW6G-1049	2311392	
			Used AW6G-1050 thru AW6G-1091	2311393	
			First used AW6G-1092	2311392	

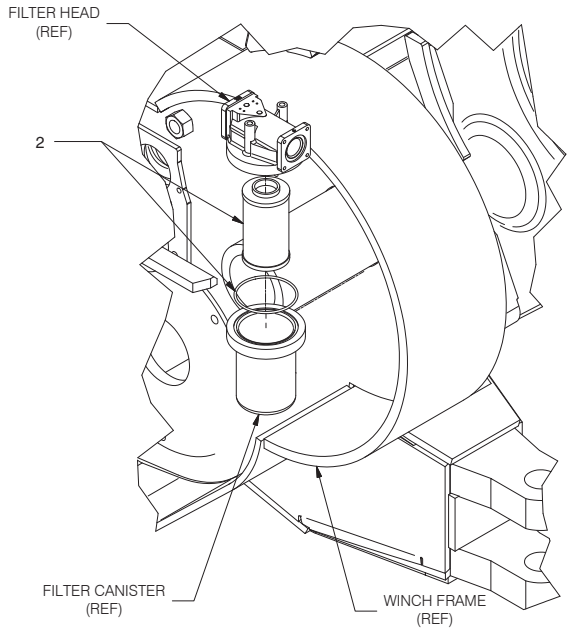
* Services both clutches. Includes all parts necessary on the clutch shaft; dropbox and PTO bearings and seals must be ordered separately.

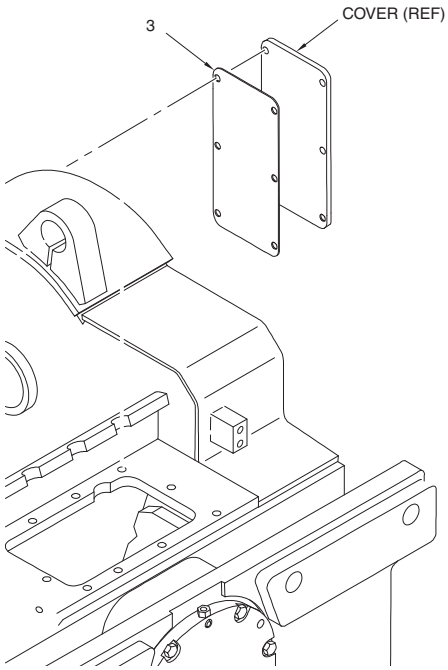
Table 2 Routine Maintenance Kits

Filter Kit: 2311394

For Winches with Power Controls
Last Used on S/N AW6G-1027





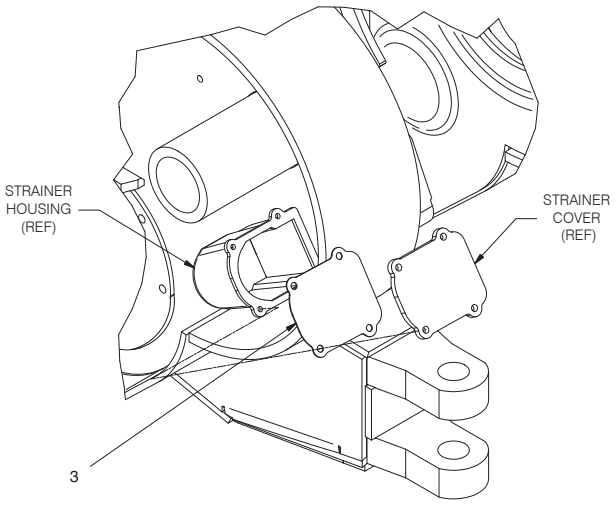


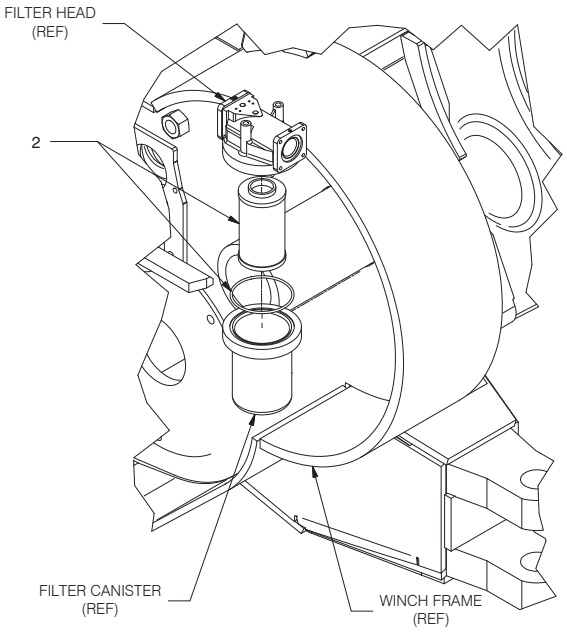
Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

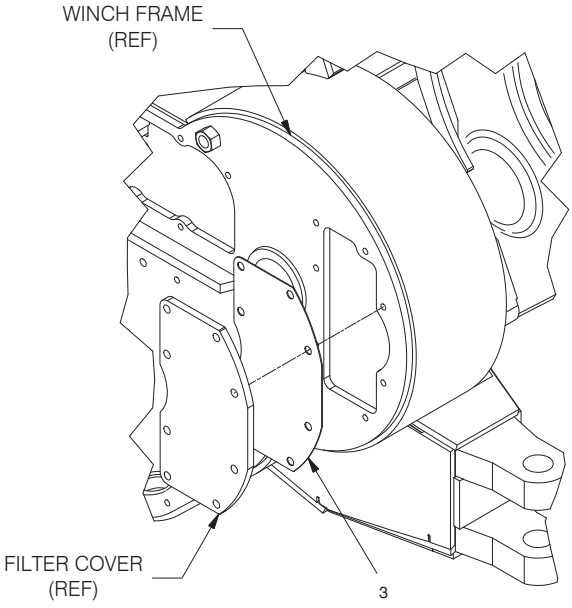
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	2311394	**Kit, Filter**	**1**	2	3001363W	. Filter	1
1	2300935W	. Gasket	1	3	185990W	. Gasket	1

Filter Kit: 2311167

For Winches with Power Controls
First Used on S/N AW6G-1028





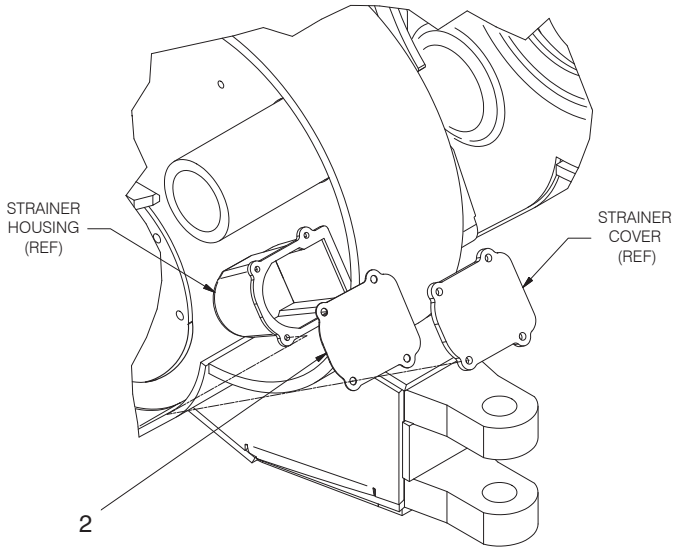


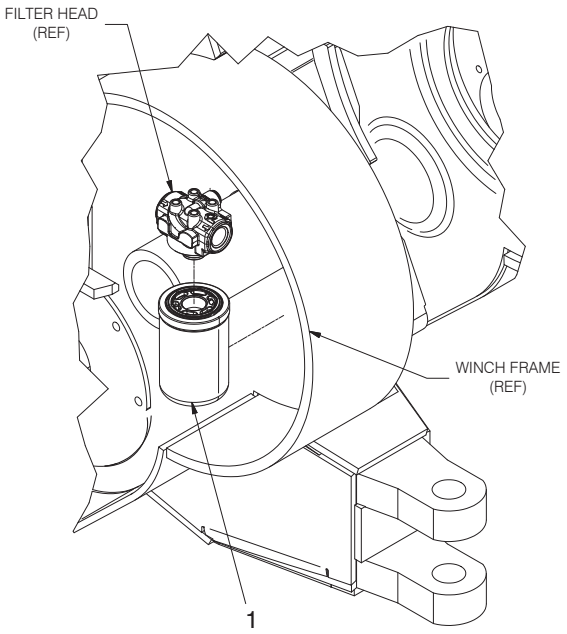
Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

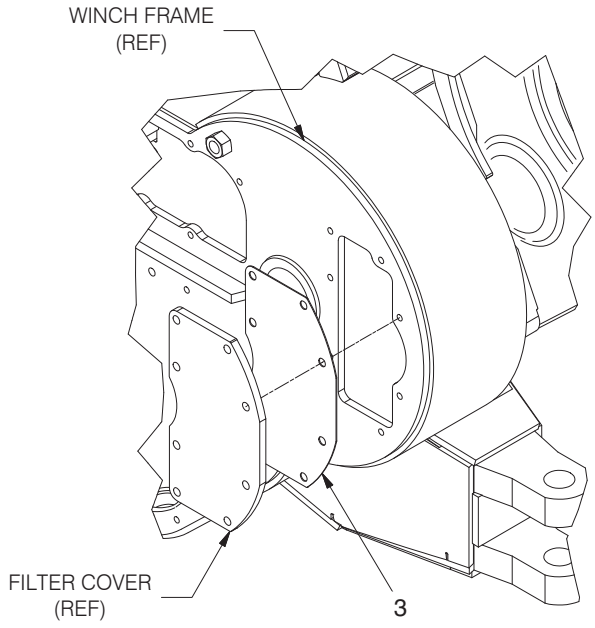
Item	Part No.	Description	Qty
	2311167	**Kit, Filter**	**1**
1	3001363W	. Filter	1
2	2304709W	. Gasket, Filter Cover	1
3	2300935W	. Gasket	1

Filter Kit: 2311168

For Winches with Electronic 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
	2311168	**Kit, Filter**	**1**
1	2304112W	. Filter, Element	1
2	2300935W	. Gasket	1
3	2304709W	. Gasket, Filter Cover	1

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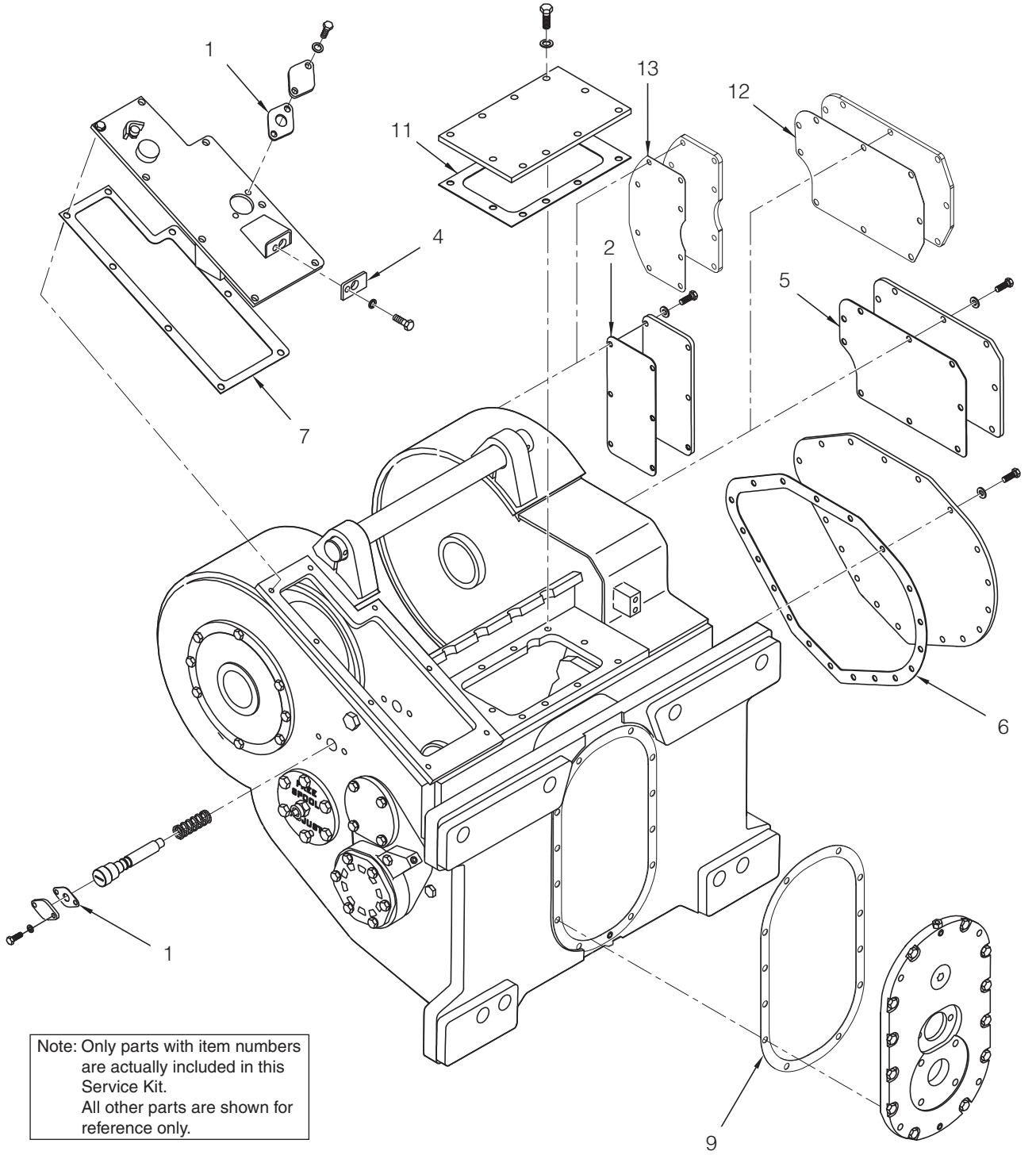
Gasket Kit: 2302729W

For Winches with Power Controls and Electronic 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.

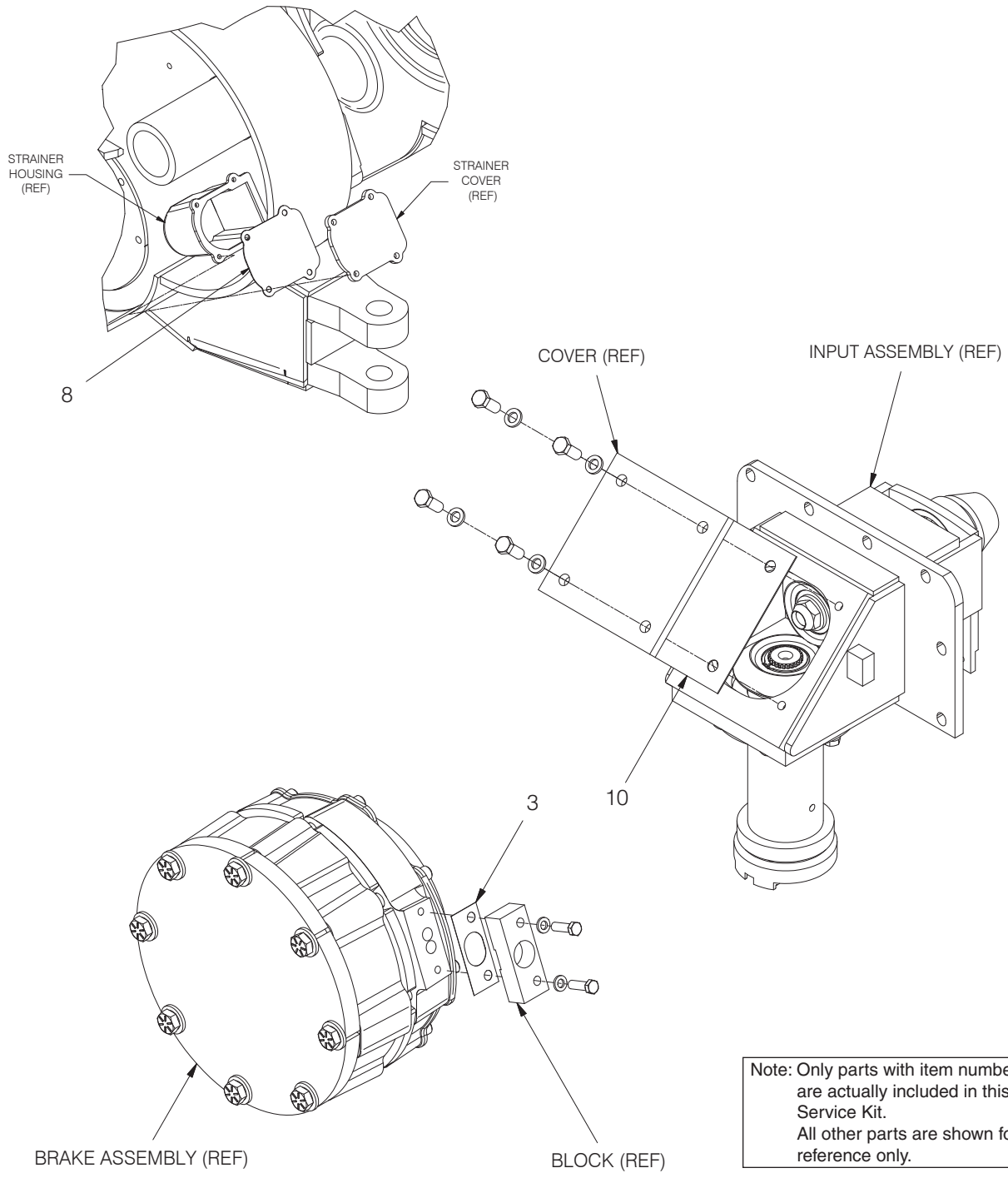
Item	Part No.	Description	Qty
	2302729W	**Kit, Gasket**	**1**
1	151646W	. Gasket	2
2	185990W	. Gasket	1
3	196022W	. Gasket	1
4	303946W	. Gasket	2
5	2300689W	. Gasket, Valve Cover	1
6	2300690W	. Gasket, Brake Cover	1
7	2300693W	. Gasket, Top Cover RH	1

(continued on next page)

Gasket Kit: 2302729W

For Winches with Power Controls and Electronic Controls

Page 2 of 2

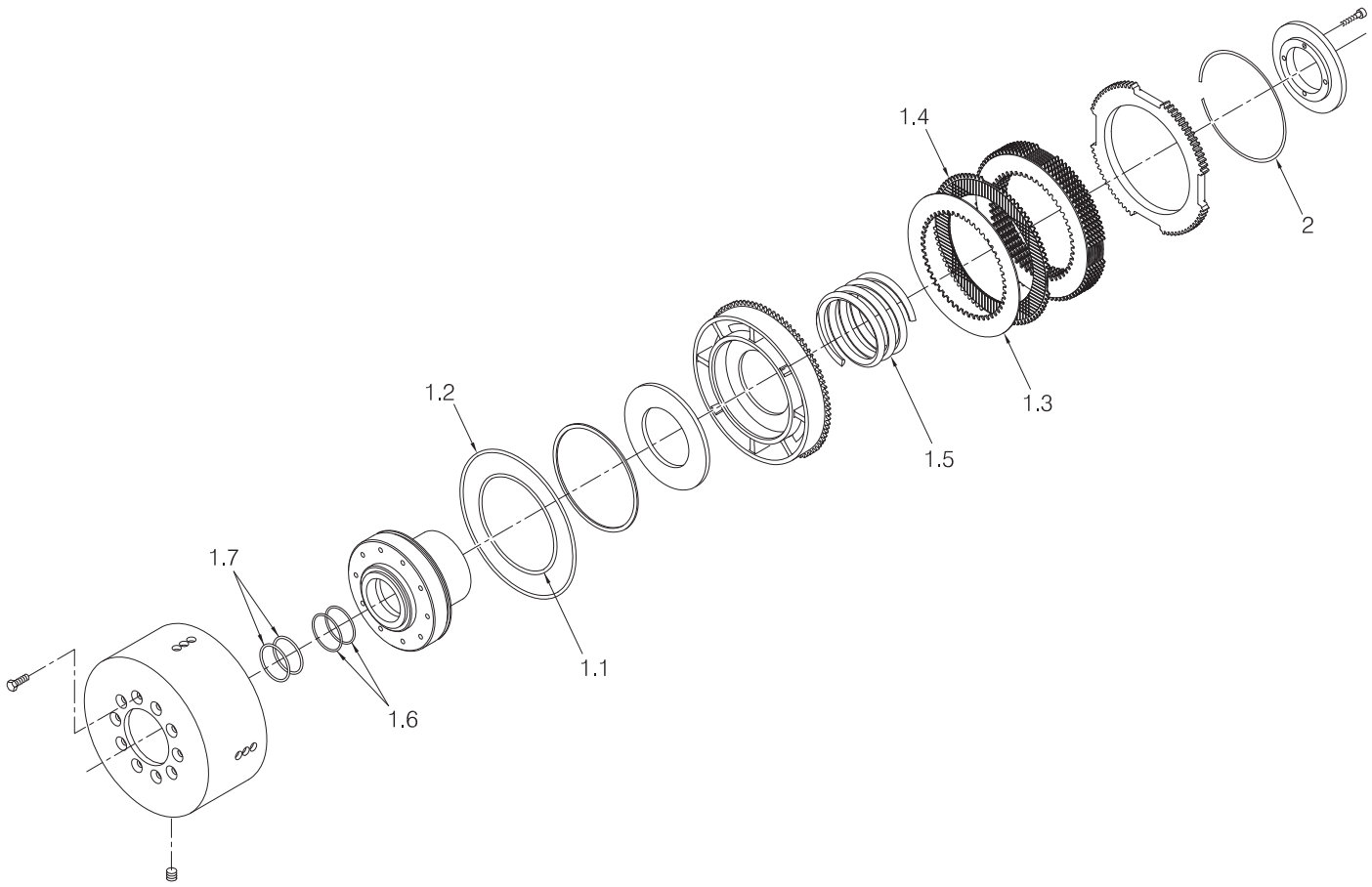


Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

Item	Part No.	Description	Qty
8	2300935W	. Gasket	1
9	2301633W	. Gasket, Front Cover	1
10	2301631W	. Gasket	1
11	2314007	. Gasket, Valve Cover	1
12	2314008	. Valve, Cover Gasket	1
13	2314005	. Gasket, Filter Cover	1

Clutch Shaft Kit: 2311388

For Winches with Power Controls and Electronic 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
	2311388	**Kit, Brake Assembly**	**1**
1	2302774W	. Service Kit, W6G Clutch	2
1.1	79972W	. . O-Ring	1
1.2	89777W	. . O-Ring	1
1.3	261542W	. . Plate, Separator	7
1.4	328715W	. . Disc, Friction	7
1.5	2300619W	. . Spring, Clutch	1
1.6	39442W	. . O-Ring	2
1.7	141913W	. . O-Ring	2
2	2300670W	. Snap Ring, INT	2

(Continued on the next page)

Clutch Shaft Kit: 2311388

For Winches with Power Controls and Electronic Controls

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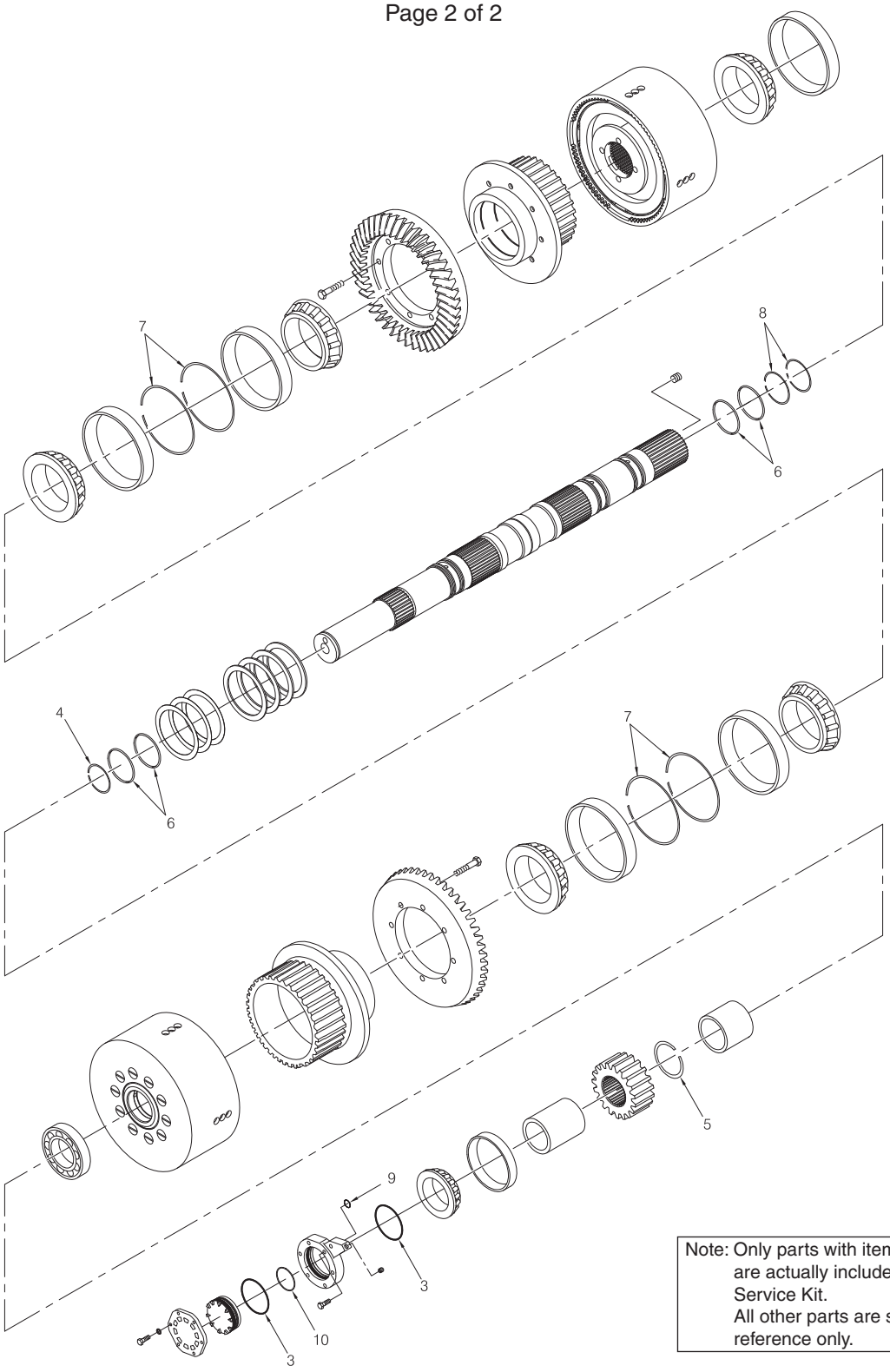
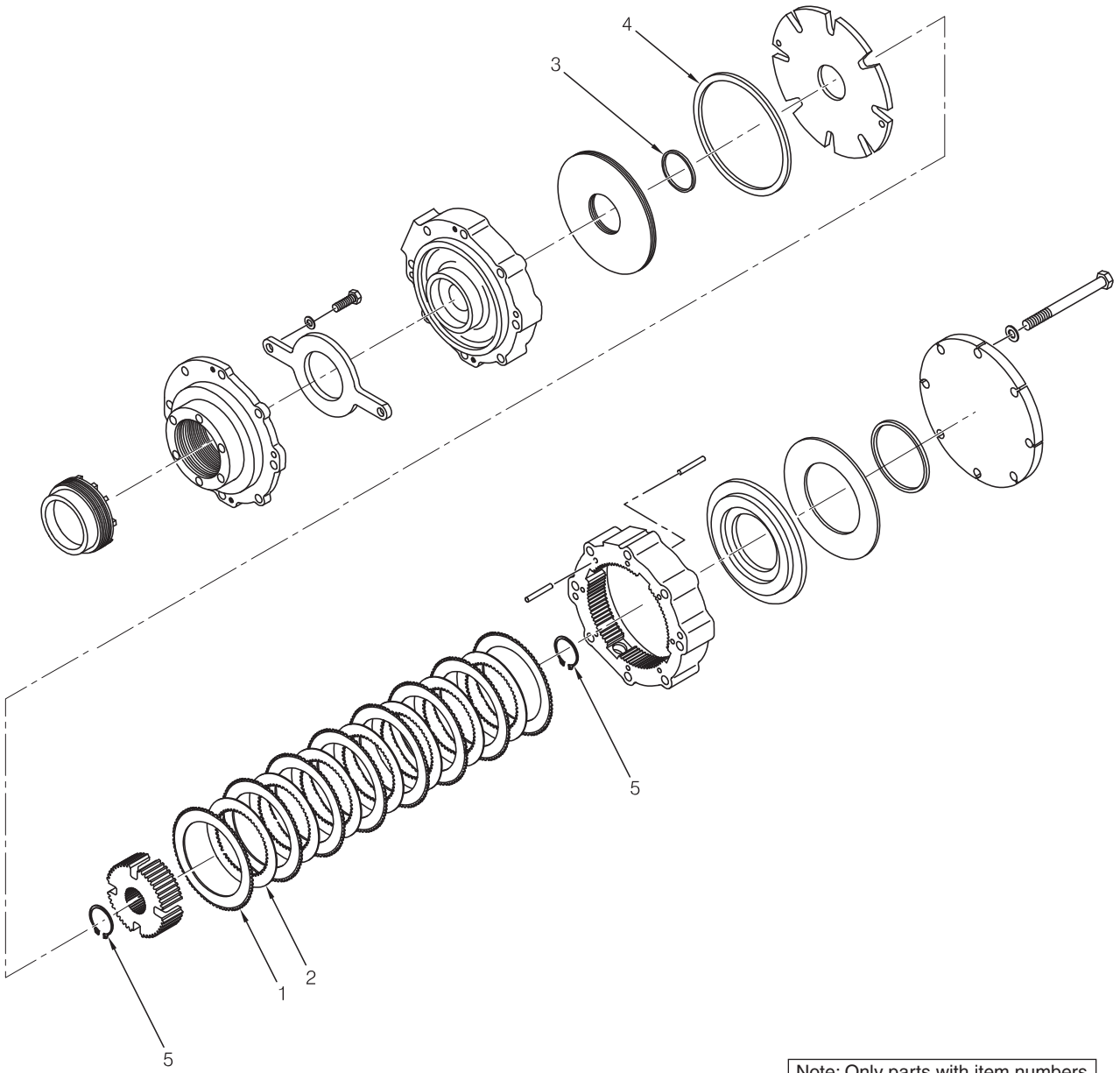


Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

Item	Part No.	Description	Qty
3	55289W	. O-Ring	2
4	219070W	. Ring, Seal	1
5	58924W	. Snap Ring, EXT	1
6	39442W	. O-Ring	4
7	184818W	. Snap Ring, INT	4
8	2300643W	. Ring, Seal	2
9	63105W	. O-Ring	1
10	15885W	. O-Ring	1

Brake Assembly Kit: 2311387

For Winches with Power Controls and Electronic 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
	2311387	**Kit, Brake Assembly**	**1**
1	328715W	. Disc, Friction	8
2	261542W	. Plate, Separator	7
3	79979W	. O-Ring	1
4	133927W	. Ring, Piston Seal	1
5	12963W	. Snap Ring, EXT	2

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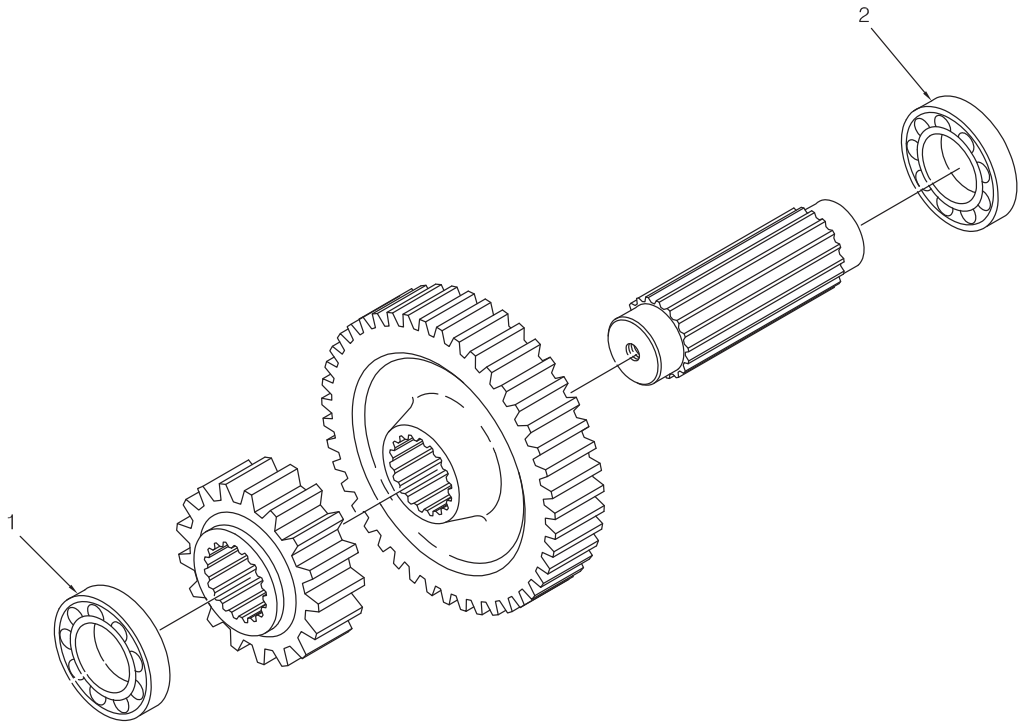
Brake, Clutch & Idler Shaft Bearing Kit: 2311389

For Winches with Power Controls and Electronic Controls



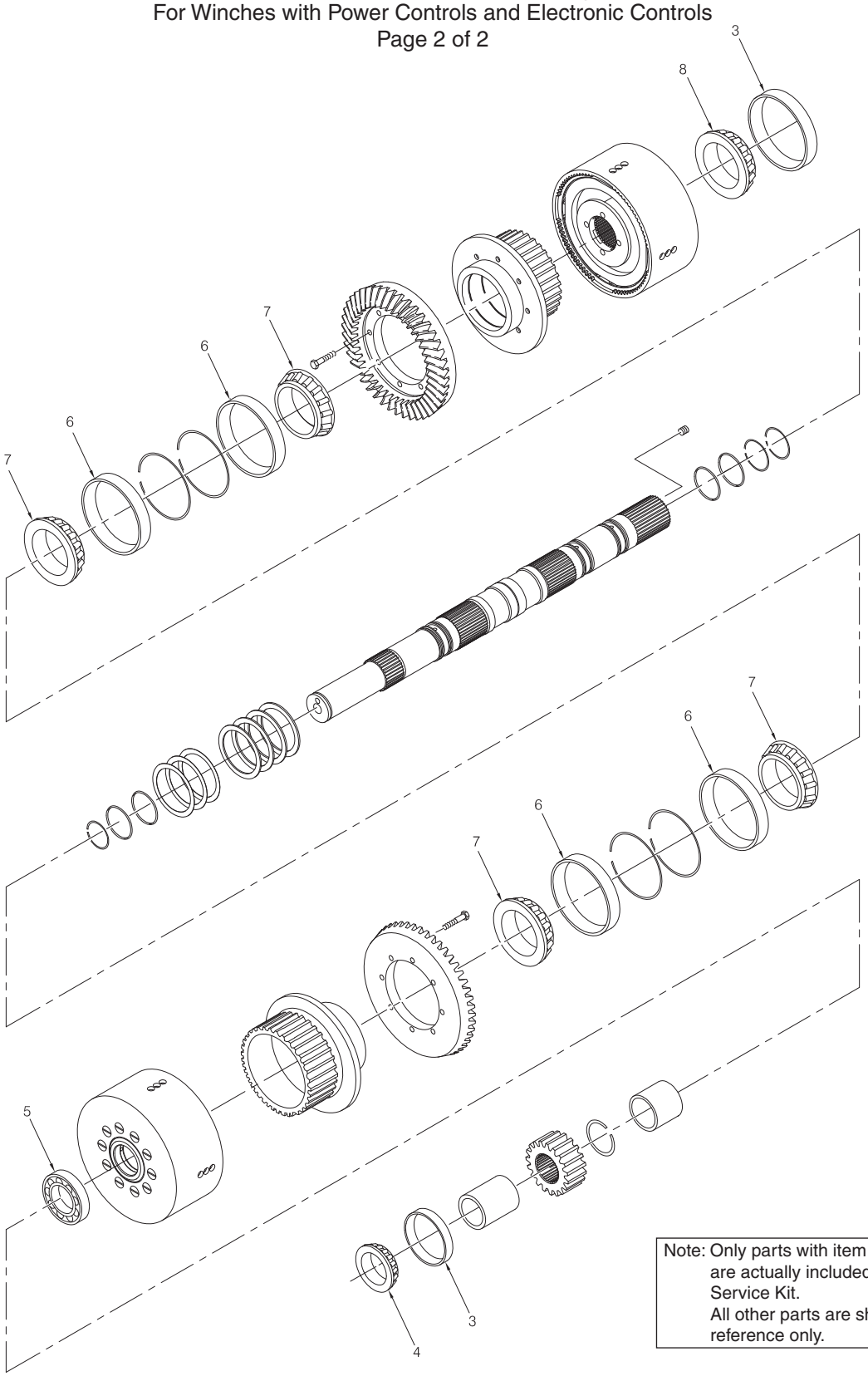
Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

Item	Part No.	Description	Qty
	2311389	**Kit, Brake/Clutch & Idler Shaft Bearing**	**1**
1	43310W	. Bearing, Ball	1
2	43210W	. Bearing, Ball	1
3	2300668W	. Cup, Bearing	2
4	2300669W	. Cone, Bearing	1

(Continued on next page)

Brake, Clutch & Idler Shaft Bearing Kit: 2311389

For Winches with Power Controls and Electronic Controls

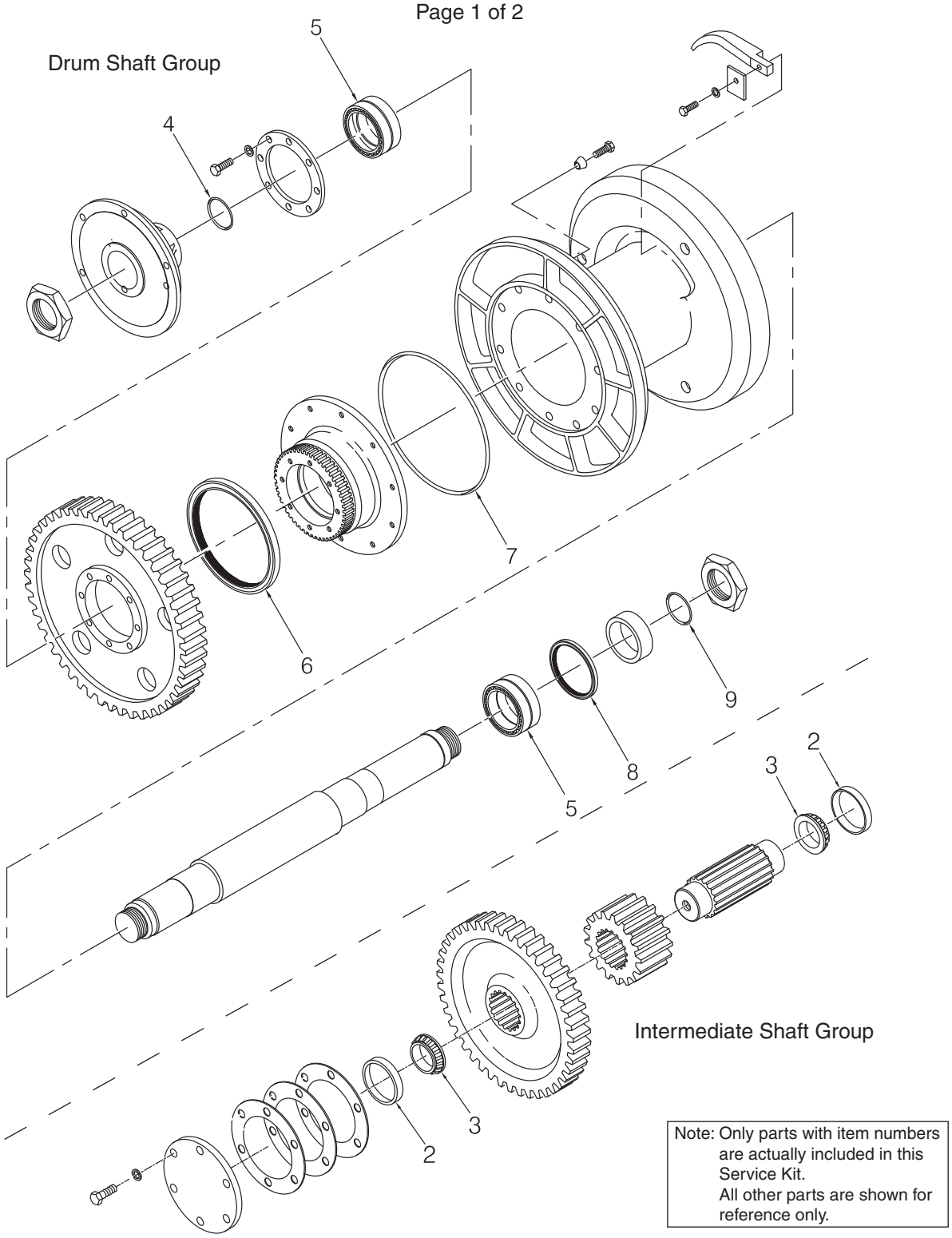


Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

Item	Part No.	Description	Qty
5	43211W	. Bearing, Ball	1
6	2300671W	. Cup, Bearing	4
7	2300672W	. Cone, Bearing	4
8	2300673W	. Cone, Bearing	1

Drum & Intermediate Shaft Bearing and Seal Kit: 2311390

For Non-Freespool Winches
with Power Controls
Page 1 of 2



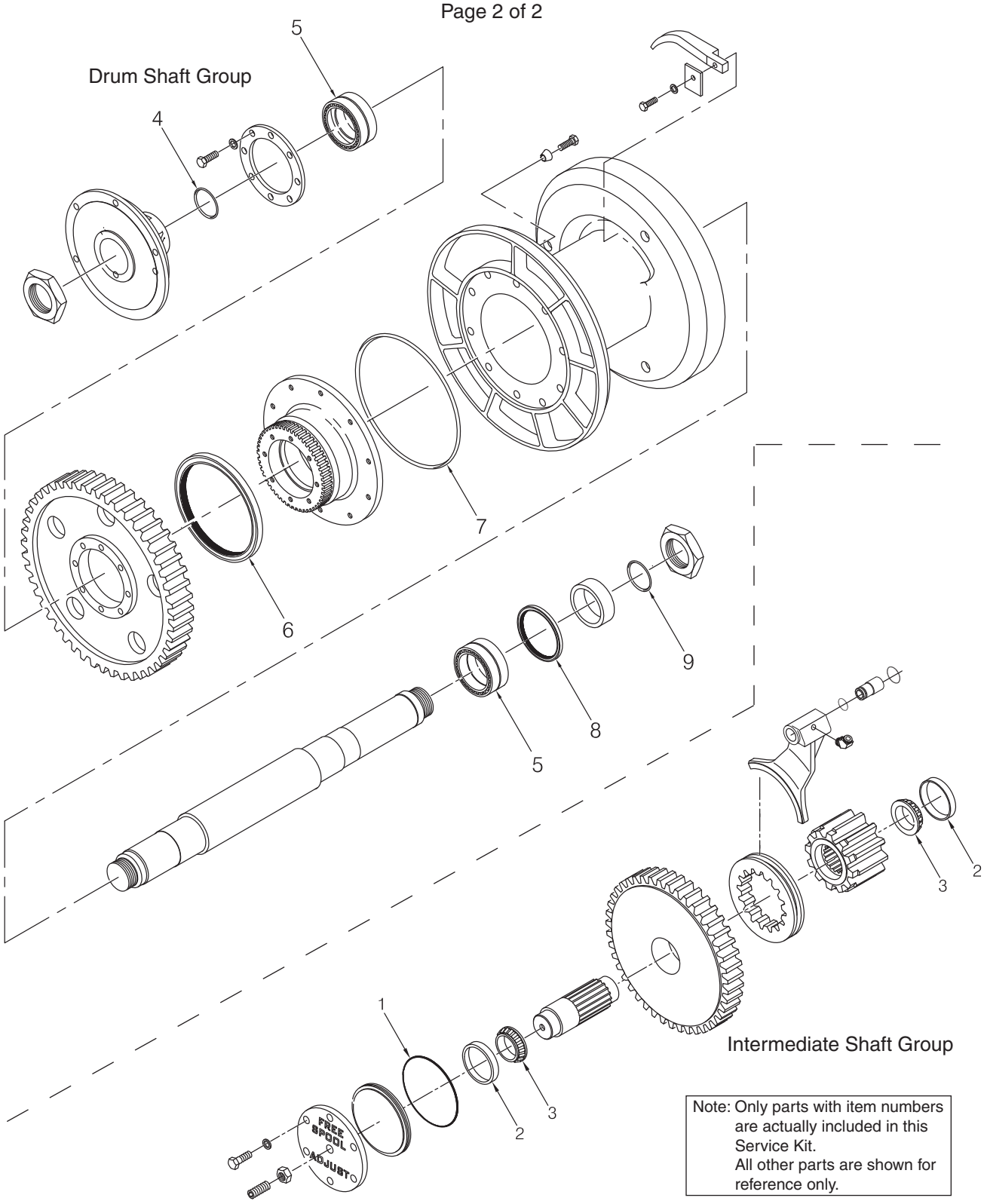
Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

Item	Part No.	Description	Qty
	2311390	**Kit, Drum/Intermediate Shaft Bearing & Seal**	**1**
1	159940W	. O-Ring	1
2	30059W	. Cup, Bearing	2
3	30080W	. Cone, Bearing	2
4	90263W	. O-Ring	1
5	230406W	. Bearing	2

(Continued on next page)

Drum & Intermediate Shaft Bearing and Seal Kit: 2311390

For Freespool & Non-Freespool Winches
with Electronic Controls
Page 2 of 2

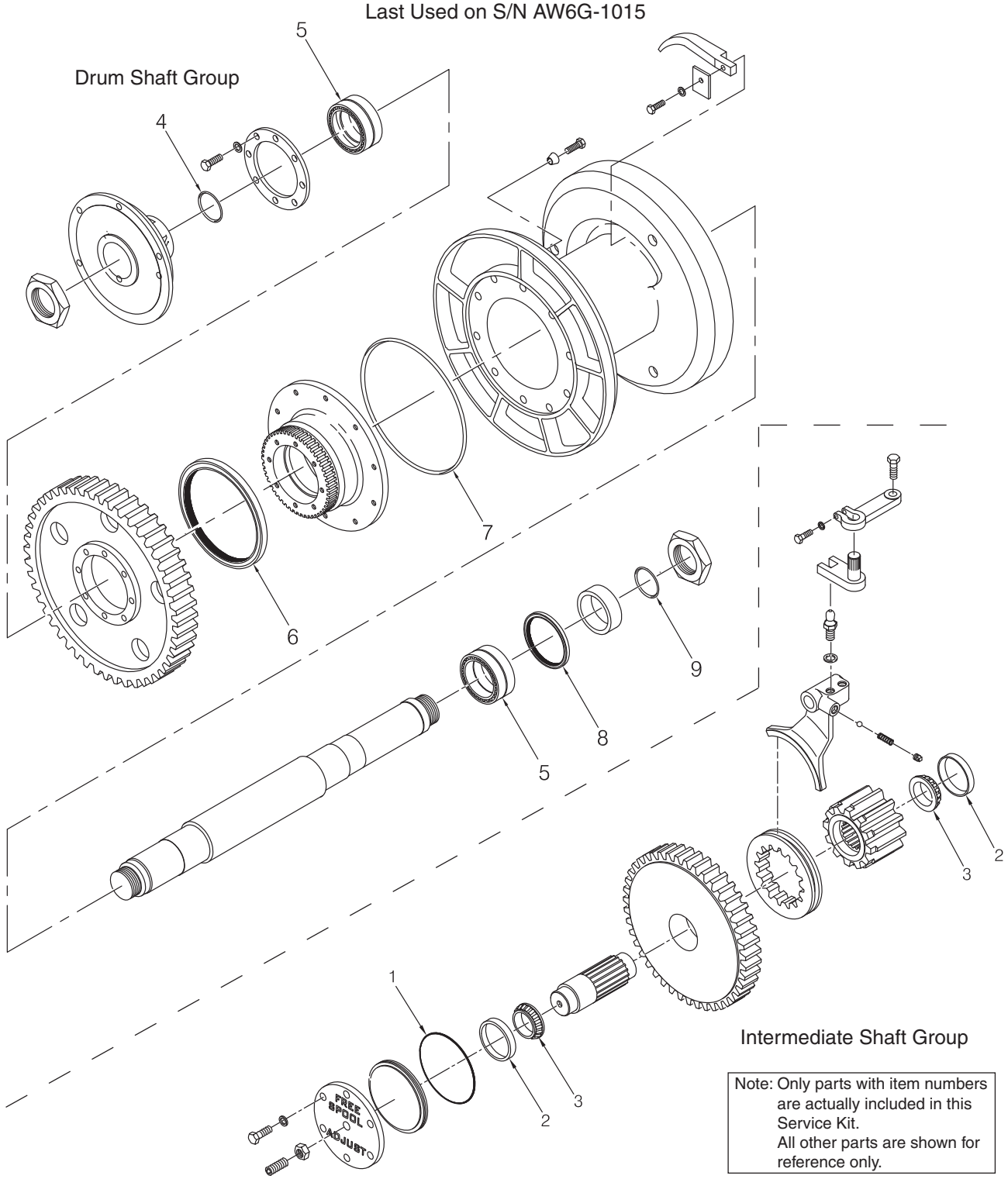


Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

Item	Part No.	Description	Qty
6	141671W	. Seal, Oil	1
7	133927W	. Ring, Piston Seal	1
8	44547W	. Seal, Oil	1
9	15881W	. O-Ring	1

Drum & Intermediate Shaft Bearing and Seal Kit: 2311391

For Freespool Winches
with Power Controls and Electronic Controls
Last Used on S/N AW6G-1015

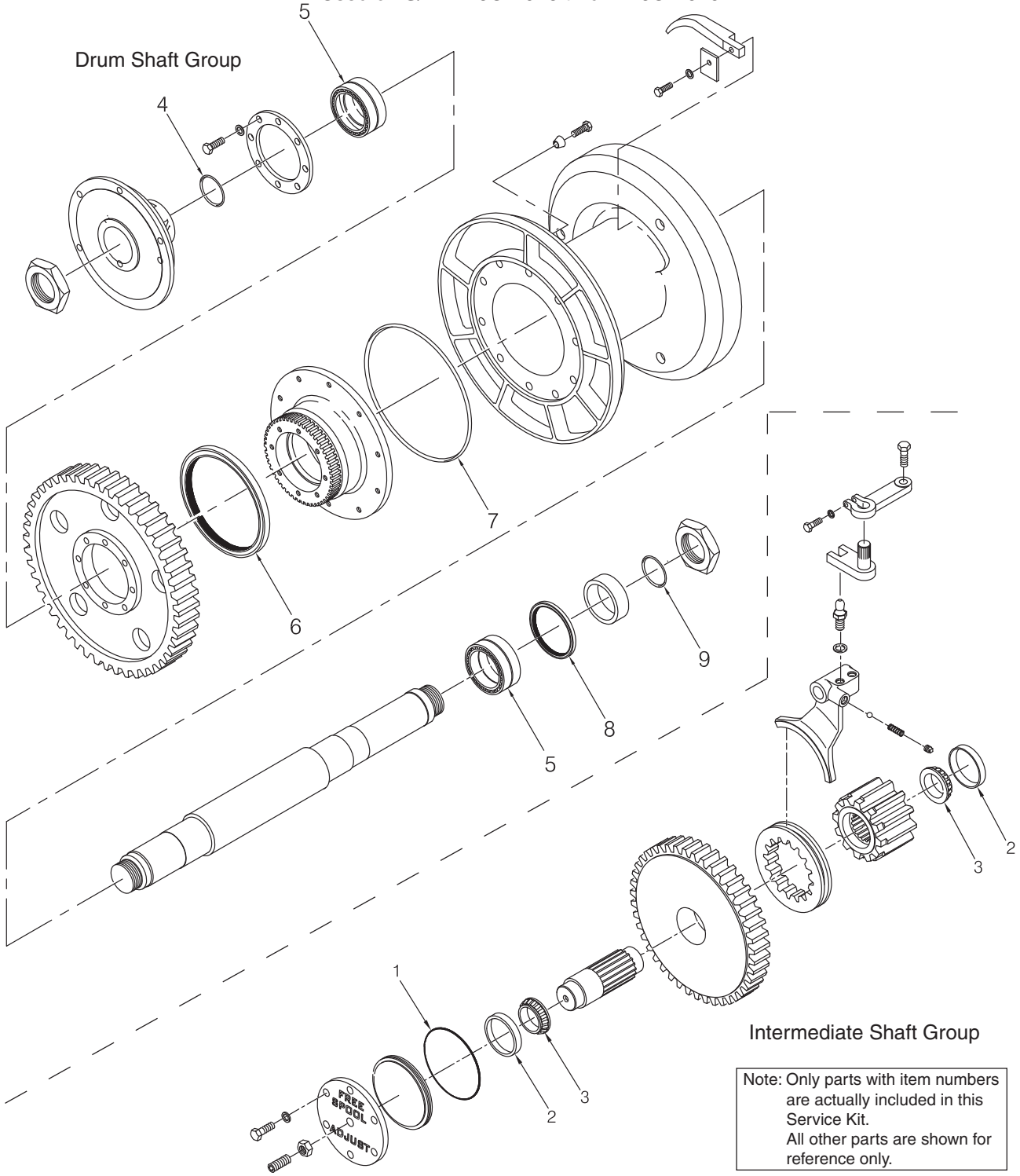


Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

Item	Part No.	Description	Qty
	2311391	**Kit, Drum/Intermediate Shaft Bearing & Seal**	**1**
1	159940W	. O-Ring	1
2	30059W	. Cup, Bearing	2
3	30058W	. Cone, Bearing	2
4	90263W	. O-Ring	1
5	230406W	. Bearing	2
6	141671W	. Seal, Oil	1
7	133927W	. Ring, Piston Seal	1
8	44547W	. Seal, Oil	1
9	15881W	. O-Ring	1

Drum & Intermediate Shaft Bearing and Seal Kit: 2311392

For Freespool Winches
with Power Controls and Electronic Controls
Used on S/N AW6G-1016 thru AW6G-1049

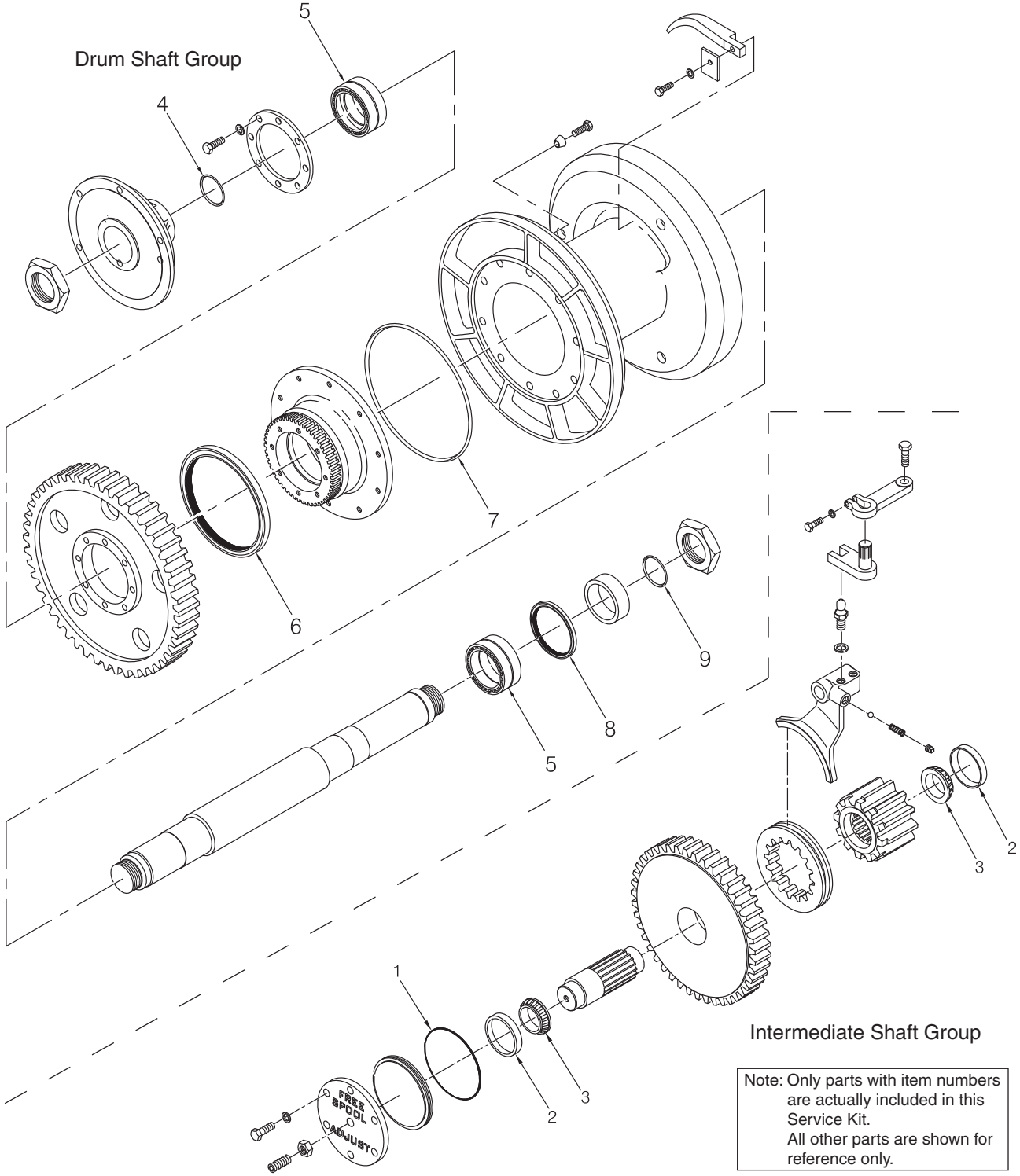


Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

Item	Part No.	Description	Qty
	2311392	**Kit, Drum/Intermediate Shaft Bearing & Seal**	**1**
1	159940W	. O-Ring	1
2	30059W	. Cup, Bearing	2
3	2302311W	. Cone, Bearing	2
4	90263W	. O-Ring	1
5	230406W	. Bearing	2
6	141671W	. Seal, Oil	1
7	133927W	. Ring, Piston Seal	1
8	44547W	. Seal, Oil	1
9	15881W	. O-Ring	1

Drum & Intermediate Shaft Bearing and Seal Kit: 2311393

For Freespool Winches
with Power Controls and Electronic Controls
Used on S/N AW6G-1050 thru AW6G-1091

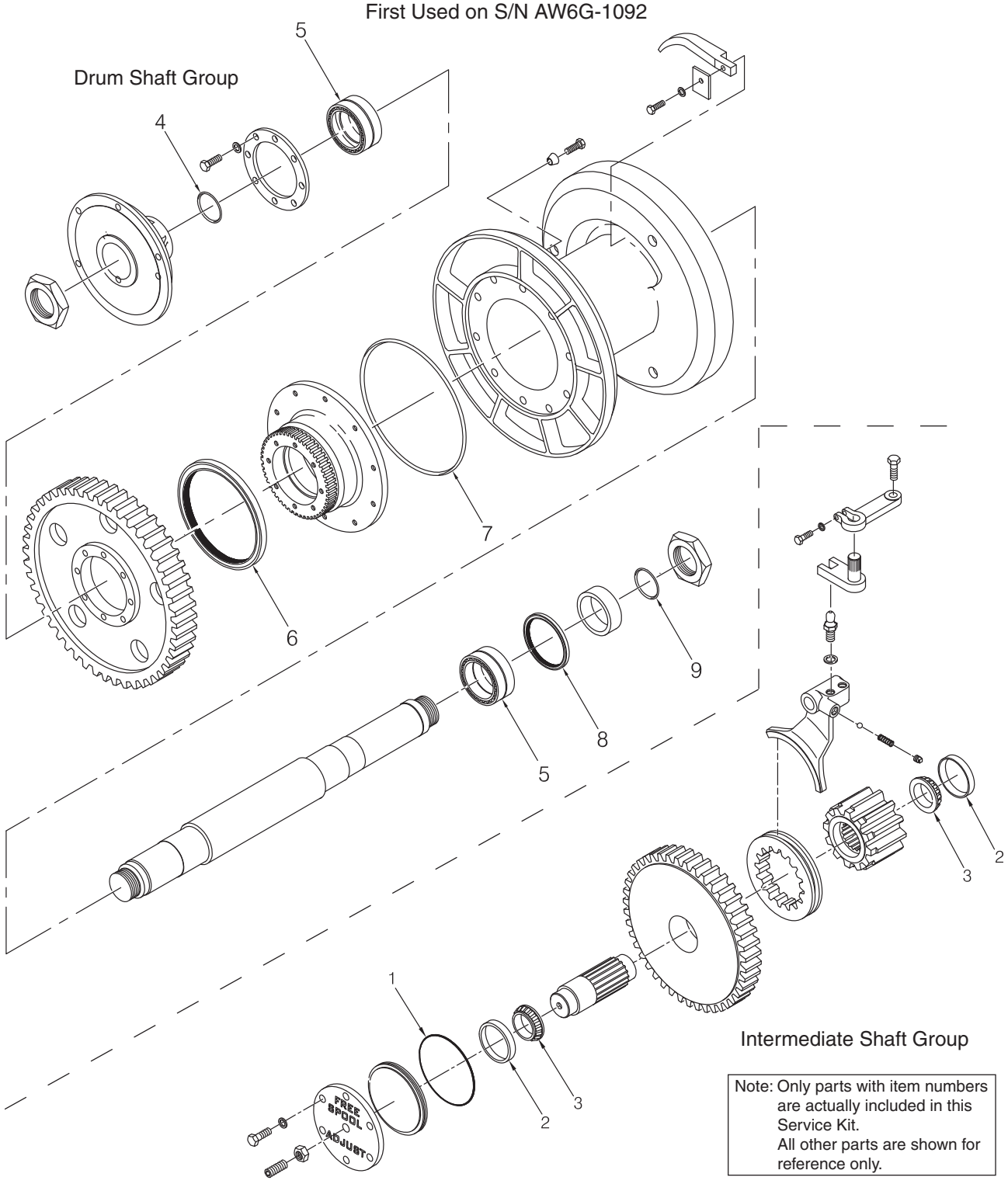


Note: Only parts with item numbers are actually included in this Service Kit.
All other parts are shown for reference only.

Item	Part No.	Description	Qty
	2311393	**Kit, Drum/Intermediate Shaft Bearing & Seal**	**1**
1	159940W	. O-Ring	1
2	30059W	. Cup, Bearing	2
3	30080W	. Cone, Bearing	2
4	90263W	. O-Ring	1
5	230406W	. Bearing	2
6	141671W	. Seal, Oil	1
7	133927W	. Ring, Piston Seal	1
8	44547W	. Seal, Oil	1
9	15881W	. O-Ring	1

Drum & Intermediate Shaft Bearing and Seal Kit: 2311392

For Freespool Winches
with Power Controls and Electronic Controls
First Used on S/N AW6G-1092



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
	2311392	**Kit, Drum/Intermediate Shaft Bearing & Seal**	**1**
1	159940W	. O-Ring	1
2	30059W	. Cup, Bearing	2
3	2302311W	. Cone, Bearing	2
4	90263W	. O-Ring	1
5	230406W	. Bearing	2
6	141671W	. Seal, Oil	1
7	133927W	. Ring, Piston Seal	1
8	44547W	. Seal, Oil	1
9	15881W	. O-Ring	1

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Suggested Spares Guide

Recommended Service Kits 6-2

- Filter Kit, P/N 2311394 6-2
- Filter Kit, P/N 2311167 6-2
- Filter Kit, P/N 2311168 6-3
- Gasket Kit, P/N 2302729W 6-3
- Brake Assembly Kit, P/N 2311387 6-3
- Clutch Shaft Kit, P/N 2311388 6-4
- Brake, Clutch & Idler Shaft Bearing Kit, P/N 2311389 6-5
- Drum & Intermediate Shaft Bearing & Seal Kit, P/N 2311390 6-5
- Drum & Intermediate Shaft Bearing & Seal Kit, P/N 2311391 6-5
- Drum & Intermediate Shaft Bearing & Seal Kit, P/N 2311392 6-6
- Drum & Intermediate Shaft Bearing & Seal Kit, P/N 2311393 6-6
- Miscellaneous Parts 6-7
- Tool Kits 6-7
- Diagnostic Tools 6-8

W6G Towing Winch

Recommended Service Kits

The following pages list the service kits that are available for your Allied W6G 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 this kit in stock at all times for regular maintenance.

Pages 6-3 and 6-4 contain a Gasket Kit, a Brake Assembly Kit, and a Clutch Shaft Kit. Order these kits in preparation for the 5,000 hour scheduled maintenance.

Pages 6-5 and 6-6 contain a Brake, Clutch & Idler Shaft Bearing Kit, and four Drum & Intermediate Shaft Bearing and Seal Kits. Order the kits relevant for your winch in preparation for the 10,000 hour scheduled maintenance.

Page 6-7 contains a list of Miscellaneous Parts. These parts will vary from installation to installation, but we recommend keeping these parts on hand. Refer to your parts manual for specific part numbers.

Page 6-7 also contains a list of Tool Kits, and Page 6-8 contains a list of Diagnostic Tools, which will help you install and maintain your winch(es).

Note: Allied winch parts manuals, as well as service manuals and operating manuals, are available for no charge download at http://www.alliedsystems.com/pubs/pubs.htm.

Filter Kit, P/N: 2311394			
Applies to: Winches with Power Controls, last used on S/N AW6G-1027 **Service Interval:** First 250, then every 500 hours		**See Section 5 in Parts Manual**	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2311394	**Filter Kit**		
2300935W	. Gasket, Strainer	1	
3001363W	. Filter, Element	1	
185990W	. Gasket, Filter Cover	1	

Filter Kit, P/N: 2311167			
Applies to: Winches with Power Controls, first used on S/N AW6G-1028 **Service Interval:** First 250, then every 500 hours		**See Section 5 in Parts Manual**	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2311167	**Filter Kit**		
3001363W	. Filter, Element	1	
2304709W	. Gasket, Filter Cover	1	
2300935W	. Gasket, Strainer	1	

Suggested Spares Guide

Filter Kit, P/N: 2311168			
Applies to: Winches with Electronic Controls Service Interval: First 250, then every 500 hours		See Section 5 in Parts Manual	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2311168	**Filter Kit**		
2304112W	. Filter, Element	1	
2300935W	. Gasket, Strainer	1	
2304709W	. Gasket, Filter Cover	1	

Gasket Kit, P/N: 2302729W			
Applies to: All Service Interval: Every 5,000 hours		See Section 5 in Parts Manual	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2302729W	**Gasket Kit**		
151646W	. Gasket	2	
185990W	. Gasket	1	
196022W	. Gasket	1	
303946W	. Gasket	2	
2300689W	. Gasket, Valve Cover	1	
2300690W	. Gasket, Brake Cover	1	
2300693W	. Gasket, Top Cover RH	1	
2300935W	. Gasket	1	
2301633W	. Gasket, Front Cover	1	
2301631W	. Gasket	1	
2314007	. Gasket, Valve Cover	1	
2314008	. Valve, Cover Gasket	1	
2314005	. Gasket, Filter Cover	1	

Brake Assembly Kit, P/N: 2311387			
Applies to: All Service Interval: Every 5,000 hours		See Section 5 in Parts Manual	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2311387	**Brake Assembly Kit**		
328715W	. Disc, Friction	8	
261542W	. Plate, Separator	7	
79979W	. O-Ring	1	
133927W	. Ring, Piston Seal	1	
12963W	. Snap Ring, EXT	2	

Clutch Shaft Kit, P/N: 2311388			
Applies to: All Service Interval: Every 5,000 hours		See Section 5 in Parts Manual	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2311388	**Clutch Shaft Kit**		
2302774W	. Service Kit, W6G Clutch	2	
79972W	. . O-Ring	1	
89777W	. . O-Ring	1	
261542W	. . Plate, Separator	7	
328715W	. . Disc, Friction	7	
2300619W	. . Spring, Clutch	1	
39442W	. . O-Ring	2	
141913W	. . O-Ring	2	
2300670W	. Snap Ring, INT	2	
55289W	. O-Ring	2	
219070W	. Ring, Seal	1	
58924W	. Snap Ring, EXT	1	
39442W	. O-Ring	4	
184818W	. Snap Ring, INT	4	
2300643W	. Ring, Seal	2	
63105W	. O-Ring	1	
15885W	. 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 & Idler Shaft Bearing Kit, P/N: 2311389			
Applies to: All Service Interval: Every 10,000 hours		See Section 5 in Parts Manual	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2311389	**Brake, Clutch & Idler Shaft Bearing Kit**		
43310W	. Bearing, Ball	1	
43210W	. Bearing, Ball	1	
2300668W	. Cup, Bearing	2	
2300669W	. Cone, Bearing	1	
43211W	. Bearing, Ball	1	
2300671W	. Cup, Bearing	4	
2300672W	. Cone, Bearing	4	
2300673W	. Cone, Bearing	1	

Drum & Intermediate Shaft Bearing and Seal Kit, P/N: 2311390			
Applies to: All Non-Freespool winches Service Interval: Every 10,000 hours		See Section 5 in Parts Manual	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2311390	**Drum & Intermediate Shaft Bearing and Seal Kit**		
159940W	. O-Ring	1	
30059W	. Cup, Bearing	2	
30080W	. Cone, Bearing	2	
90263W	. O-Ring	1	
230406W	. Bearing	2	
141671W	. Seal, Oil	1	
133927W	. Ring, Piston Seal	1	
44547W	. Seal, Oil	1	
15881W	. O-Ring	1	

Drum & Intermediate Shaft Bearing and Seal Kit, P/N: 2311391			
Applies to: All Freespool Winches, S/N AW6G-1015 and below Service Interval: Every 10,000 hours		See Section 5 in Parts Manual	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2311391	**Drum & Intermediate Shaft Bearing and Seal Kit**		
159940W	. O-Ring	1	
30059W	. Cup, Bearing	2	
30058W	. Cone, Bearing	2	
90263W	. O-Ring	1	
230406W	. Bearing	2	
141671W	. Seal, Oil	1	
133927W	. Ring, Piston Seal	1	
44547W	. Seal, Oil	1	
15881W	. O-Ring	1	

Drum & Intermediate Shaft Bearing and Seal Kit, P/N: 2311392			
Applies to: Freespool Winches, S/N AW6G-1016 thru AW6G-1049, AW6G-1092 and above Service Interval: Every 10,000 hours		See Section 5 in Parts Manual	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2311392	**Drum & Intermediate Shaft Bearing and Seal Kit**		
159940W	. O-Ring	1	
30059W	. Cup, Bearing	2	
2302311W	. Cone, Bearing	2	
90263W	. O-Ring	1	
230406W	. Bearing	2	
141671W	. Seal, Oil	1	
133927W	. Ring, Piston Seal	1	
44547W	. Seal, Oil	1	
15881W	. O-Ring	1	

Drum & Intermediate Shaft Bearing and Seal Kit, P/N: 2311393			
Applies to: Freespool Winches, S/N AW6G-1050 thru AW6G-1091 Service Interval: Every 10,000 hours		See Section 5 in Parts Manual	
Allied P/N	**Description**	**Quantity in Kit**	**Order Quantity**
2311393	**Drum & Intermediate Shaft Bearing and Seal Kit**		
159940W	. O-Ring	1	
30059W	. Cup, Bearing	2	
30080W	. Cone, Bearing	2	
90263W	. O-Ring	1	
230406W	. Bearing	2	
141671W	. Seal, Oil	1	
133927W	. Ring, Piston Seal	1	
44547W	. Seal, Oil	1	
15881W	. O-Ring	1	

Suggested Spares Guide

Miscellaneous Parts

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. The part number of most of these items vary, based on tractor installation, serial number, installed options, etc. Check the parts manual to determine the part number for your particular winch in the section indicated.

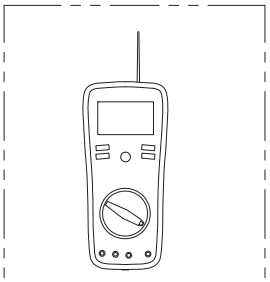
Allied P/N	Description	Parts Manual Section	Order Quantity
varies	Control Cables	Section 3	
varies	Hand Levers or Joystick	Section 3	
varies	Driveline and/or related components such As U-Joints	Section 1	
varies	Hydraulic Pump	Section 3	
varies	Coils and Valves for Control Manifold	Section 3	
varies	Wire Rope Assembly	Section 4	
varies	PTO Input Shaft Seal(s)	Section 2	
varies	PTO Input Bearing(s)	Section 2	
varies	Input Yoke(s) (if Present)	Section 2	
95959W	Drawbar Pin	Section 1	
2303221W	Drawbar Pin, Keeper	Section 1	
varies	Wire Harnesses	Section 3	
varies	Joystick Panel Switches	Section 3	
2304603W	Communication Cable	Section 3	
2305473W	Blank Control Module	na	

Tool Kits

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

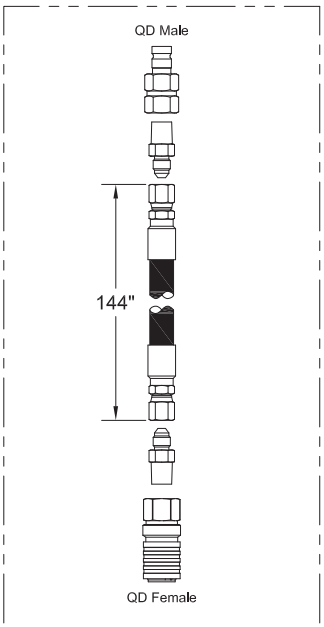
Allied P/N	Description	Order Quantity
588466	Socket Set, 3/8DR 3/8” to 7/8” STD/Deep, 22 PC	
588467	Socket Set, 1/2DR 3/8” to 1-1/4” STD/Deep, 30 PC	
588468	Socket Set, 3/4DR 7/8” to 2-3/8” STD, 29 PC	
588469	Wrench Set, 5/16” to 2-1/2”, 31 PC	
588527	Hex Key Sets, .025” to 5/8”, 18 PC	
588530	Socket 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	

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	

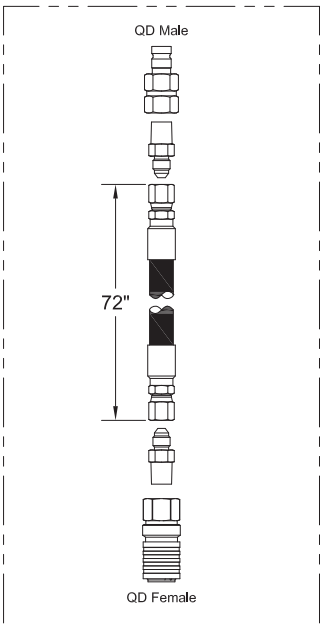


69778
Multi-Meter, 12 Function

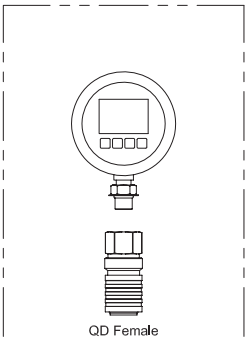
AC/DC Voltage & Current,
Resistance, Capacitance,
Frequency, Type K & IR
Temperature, Diode/Continuity,
Duty Cycle Non-Contact
InfraRed Thermometer
CAT III Test Leads
Type K Bead Wire Temp Probe



70381
Kit, Hose Assembly, W/QD Both Ends



69782
Kit, Hose Assembly, W/QD Both Ends



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

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