



Parts Manual



W6G

Towing Winch for Caterpillar Dozers

Applicable to winches with serial numbers:

- AW6GE6*2057C***
- AW6GE6*2059C*** and later

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

A Product of

Allied Systems
COMPANY

Sherwood, OR USA

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.**

Index - Illustrated



Ref	Item	Page
1	Frame/Covers/Decals/Parts-Mounting	1
2	Gear Train/Shaft	11
3	Hydraulics/Controls	27
4	Optional Equipment	37
5	Recommended Service Kits	43
6	Numerical Index	57

Index - Master

Description	Page No.
Arch.....	39
Brake Assembly	19
Brake Assembly Kit.....	50
Brake, Clutch, and Idler Shaft Bearing Kit.....	52 thru 53
Clutch Assembly	18
Clutch Group.....	16 thru 17
Clutch Shaft Kit.....	48 thru 49
Drum & Intermediate Shaft Bearing and Seal Kit.....	54 thru 55
Drum Shaft	24 thru 25
Extended Drawbar	40
Fairlead.....	38
Filter Kit.....	46
Frame/Covers	2
Gasket Kit.....	47
Hydraulic Group	28 thru 31
Idler Gear Shaft.....	20
Input Arrangements.....	12 thru 14
Intermediate Gear Shaft	22 thru 23
Joystick Installation.....	34 thru 35
Miscellaneous Parts	56
Mounting Parts	3 thru 8
Nameplate & Decals.....	9
Pump Assembly	15
Recommended Service Kits	45
Recommended Winch Service Intervals.....	44
Valve Manifold Assembly	32 thru 33
Wire Rope Assemblies	41, 56

Safety Summary

General Safety Notices

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

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



DANGER

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



WARNING

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



CAUTION

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

NOTICE

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

NOTE: ...

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

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

Safety Regulations

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

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

Operation, Inspection, and Maintenance Warnings

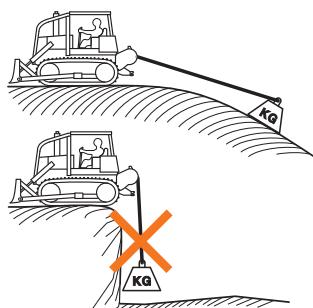


WARNING

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

- Do not operate the winch unless you 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 job site rules.
- Be in complete control at all times.
- Do not use the control levers as hangers for clothes, water bags, grease guns, lunch pails, etc.
- Do not leave the vehicle when the winch wire rope is under tension.
- Do not permit riders on the vehicle or load.
- Do not use the winch as an anchor for a double or two-part line.
- Do not pull the hook through the throat or over the drum, which will cause damage.
- When the winch is not in use, make sure the control lever is in **BRAKE-ON** position and the winch brake is applied.
- Do not use winch as a hoist. Tractor and skidder mounted winches are designed for towing.
- Always inspect wire rope, tail chain and other rigging components for wear, damage, broken strands or abuse before use.
- Never use wire rope, tail chain or other rigging that is worn-out, damaged or abused.
- Never overload wire rope, tail chain or rigging.
- Wire rope and tail chain will fail if worn-out, overloaded, misused, damaged, improperly maintained or abused. Wire rope or tail chain failure may cause serious injury or death!



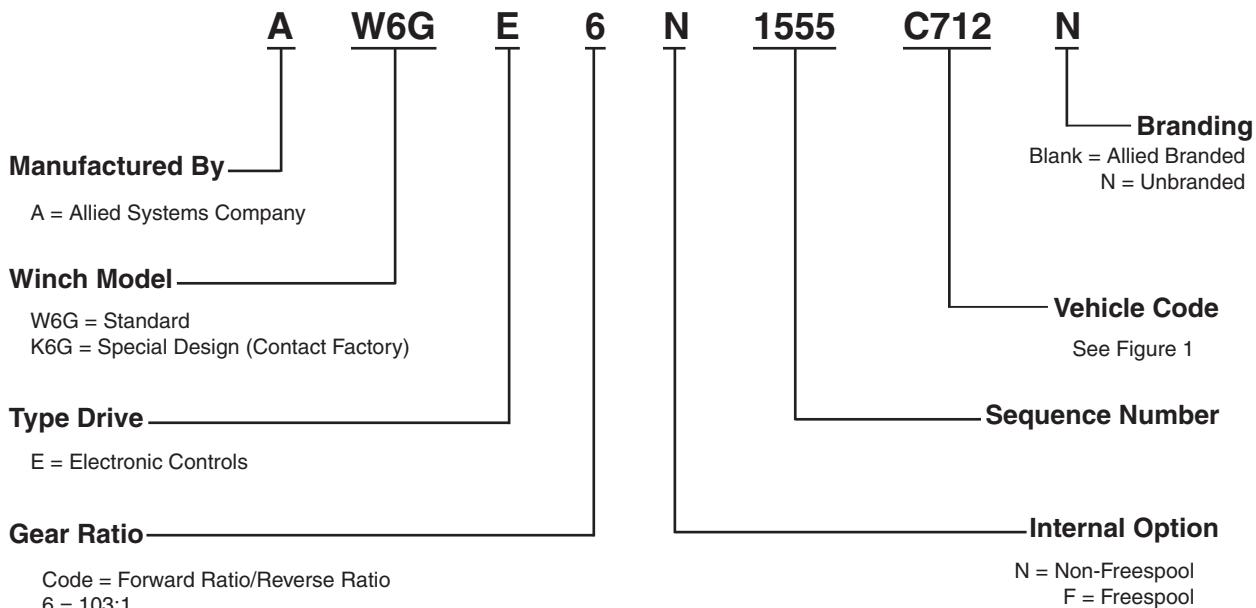
- Do not terminate wire rope to tail chain by the use of a knot.
- Do not handle wire rope if the hook end is not free. A load could break away, suddenly tensioning the wire rope, resulting in serious injury or death.
- Stay clear of wire rope entry areas (fairlead or arch rollers, winch drum etc).
-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

- Do not handle wire rope with bare hands. Wear leather gloves at all times.
- Align the tractor with the load to prevent side loading the winch, and to maintain even spooling of the wire rope.
- If applying tension to the wire rope manually during spooling:
 - » ensure that the operator is winching in slowly,
 - » keep your hands and clothing well clear of any rollers or the winch drum,
 - » do not maintain tension by letting the wire rope to slip through your hands,
 - » use a hand-over-hand technique to maintain tension.
- Be aware of the ground conditions, and make sure the ground and tractor are stable enough to pull the intended load.
- Do not attempt to pull loads in excess of the rated capacity of the winch.
- Keep yourself informed of any applicable codes, regulations and standards for the job.
- Your winch may have temperature shut-off system for protection of tractor and winch. Manual override of high temperature shut-off will cause damage to tractor and winch.
- This winch is neither intended, designed, nor rated for any application involved in the lifting or moving of personnel.
- Use only the lubricants listed in the Recommended Oil List. See page 0-11.
- 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.



Identification - Unit

Allied Winch S/N Nameplate Data For Tractor Mountings



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

Vehicle Code	Caterpillar Model and Serial Number Prefix, Where Applicable
C71	D6T D6R II
C712	D6 Build 20A
C713	D6 Build 18A, 19A
C810	D5 Build 17a D6N Tractor Tier 4i; 4f (s/n prefix PER, PBA, GB6, SGG, NJN, MG5)

Figure 1 - Caterpillar Vehicle Codes

Capacities and Specifications

Recommended Oil List

Recommended Oils* - General Conditions			
Manufacturer	Oil Type	Ambient Temperature Range	
		°F	°C
ExxonMobil	Mobil Fluid 424 (Factory fill)	-13 to 104	-25 to 40
John Deere	Hy-Gard™	-13 to 122	-25 to 50
Chevron	1000 THF	-13 to 104	-25 to 40
Caterpillar	Multipurpose Tractor Oil (MTO)	-13 to 104	-25 to 40
Case	Hy-Tran Ultra	-20 to 122	-29 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 2 Recommended Oil List

Note: Refer to Winch Maintenance decal on page 9 for more information.

Winch Oil Capacity

Winch Model	Oil Capacity
W6G	19.5 Gallons (73.8 Liters)

Figure 3 Winch Oil Capacity

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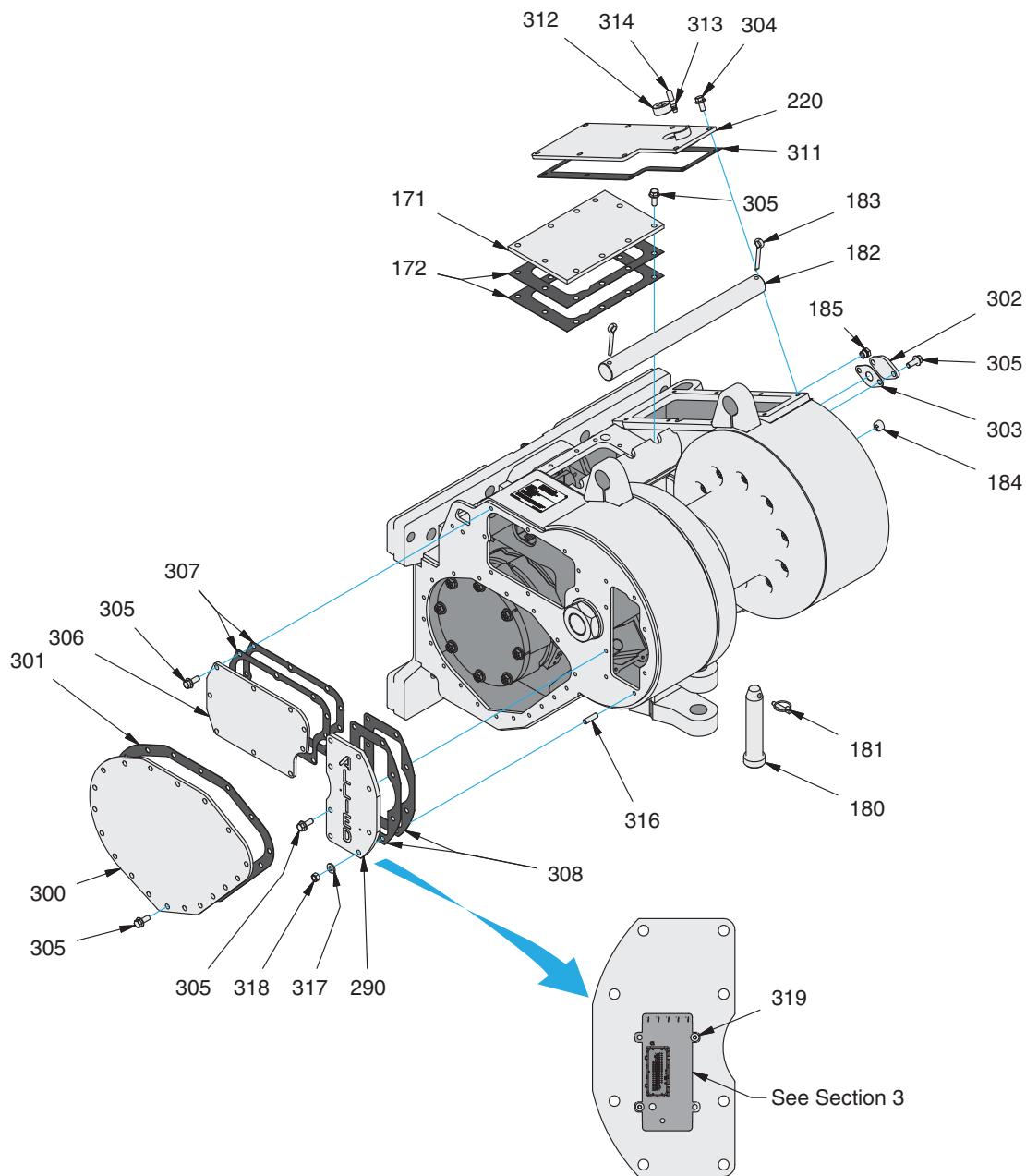
Section 1

Frame/Covers/Decals/Mounting Parts

Frame/Covers	2
Mounting Parts.....	3 thru 8
Nameplate & Decals	9

Frame and Covers

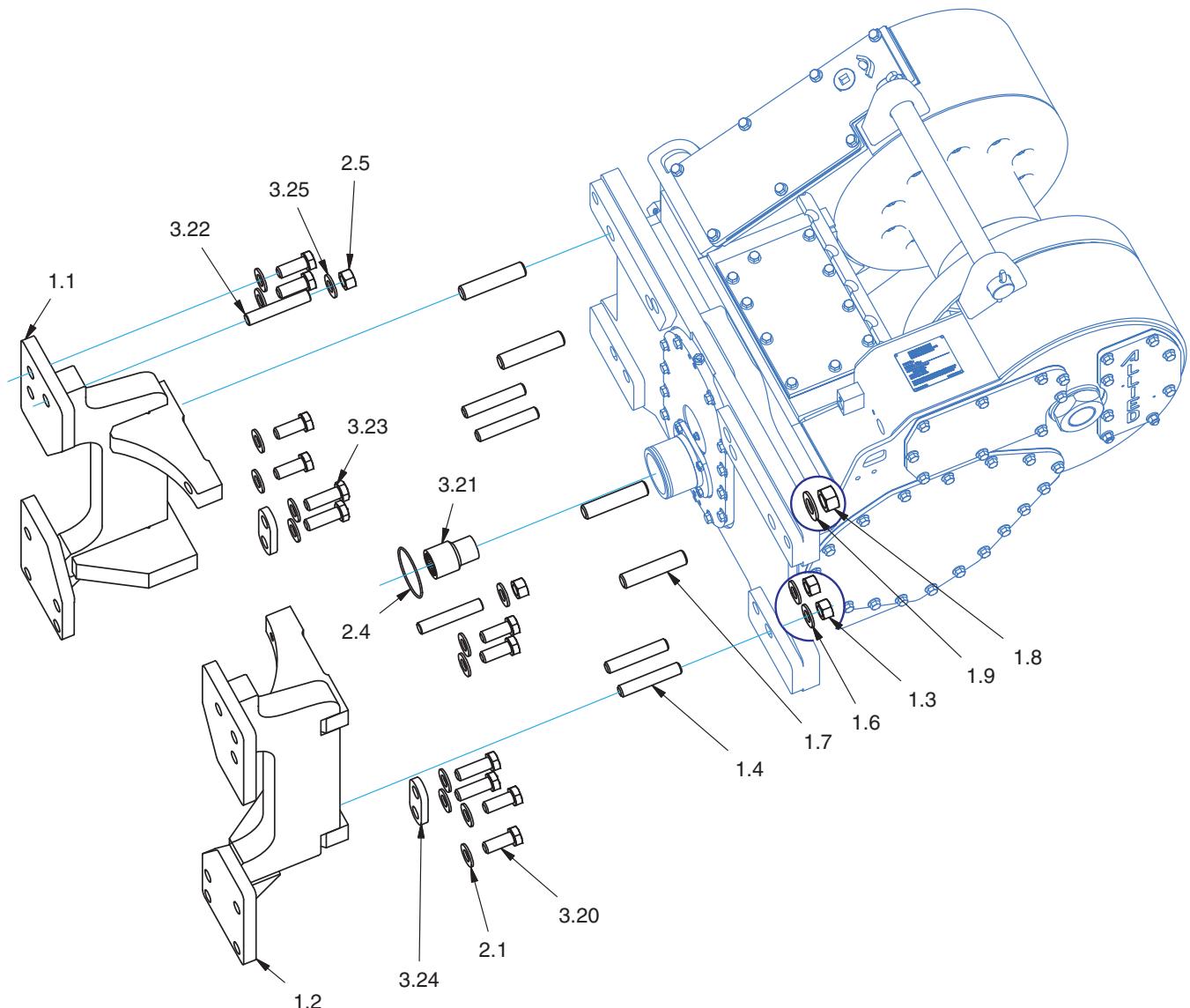
Page 1 of 1



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
171	2301689W	1	Plate - Cover	305	2303848W	47	Screw, Flange
172	2314007	2	Gasket	306	2305119W	1	Cover - Valve
180	95959W	1	Pin, Drawbar	307	2314008	2	Gasket, Valve Cover
181	2303221W	1	Pin, Retain	308	2314005	2	Gasket, Filter Cover
182	196280W	1	Rod, Tie	312	15319W	1	Fitting
183	15272W	2	Cotter Pin	313	21420W	1	Breather
184	10389W	1	Fitting	314	2300962W	1	Cap, Breather
185	14595W	1	Fitting	316	*a 2317364	2	Stud
220	2300721W	1	Cover	317	221771W	2	Washer
290	2317346	1	Cover, Filter (Unbranded)	318	221711W	2	Hex Nut
290	2317447	1	Cover, Filter (Allied Branded)	319	Y25G-0416	2	Capscrew
300	2300687W	1	Cover - LH	*a Apply Loctite (318702W) to long end of stud.			
301	2300690W	1	Gasket - Cover, Brake				
302	151589W	1	Plate				
303	151646W	1	Gasket				
304	2303902W	8	Screw, Flange				

Mounting Parts

AW6GE**C71 (CAT D6T, D6R II)

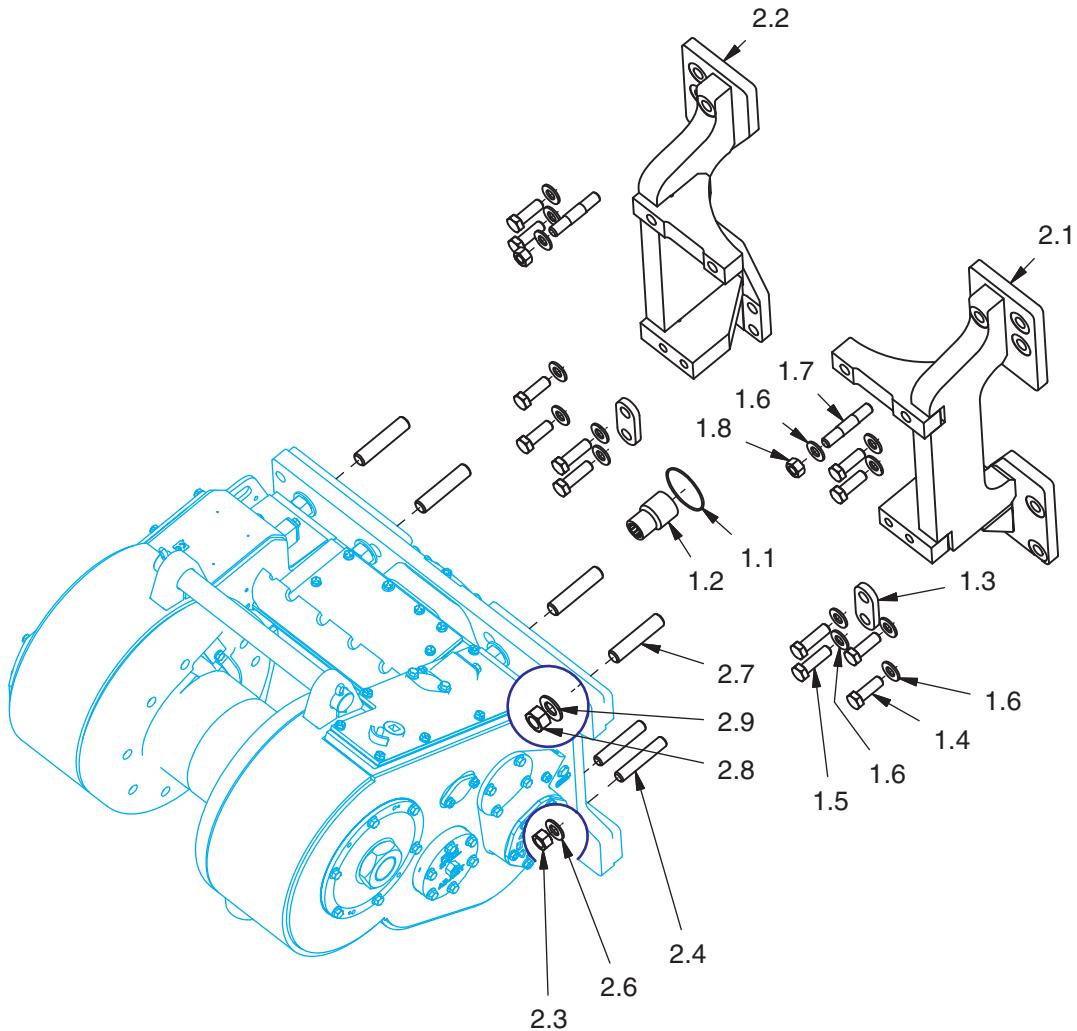


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	2314554	1	Bracket, RH Mounting	2.1	* 221780W	12	. Washer
1.2	2314553	1	Bracket, LH Mounting	2.4	15887W	1	. O-Ring
1.3	221721W	4	Hex Nut	2.5	221721W	2	. Hex Nut
1.4	2301144W	4	Stud	3.20	221690W	8	. Capscrew
1.6	221780W	4	Washer	3.21	2300709W	1	. Coupling - Pto
1.7	2301140W	4	Stud	3.22	259543W	2	. Stud
1.8	221725W	4	Hex Nut	3.23	* R13801898	4	. Capscrew
1.9	225851	4	Washer	3.24	2314824	2	. Plate, Spacer Bracket
				3.25	221780W	2	. Washer

* Apply Anaerobic Threadlocker (Order Kit 230064W)

Mounting Parts

AW6GE**C712* (CAT D6 BUILD 20A)

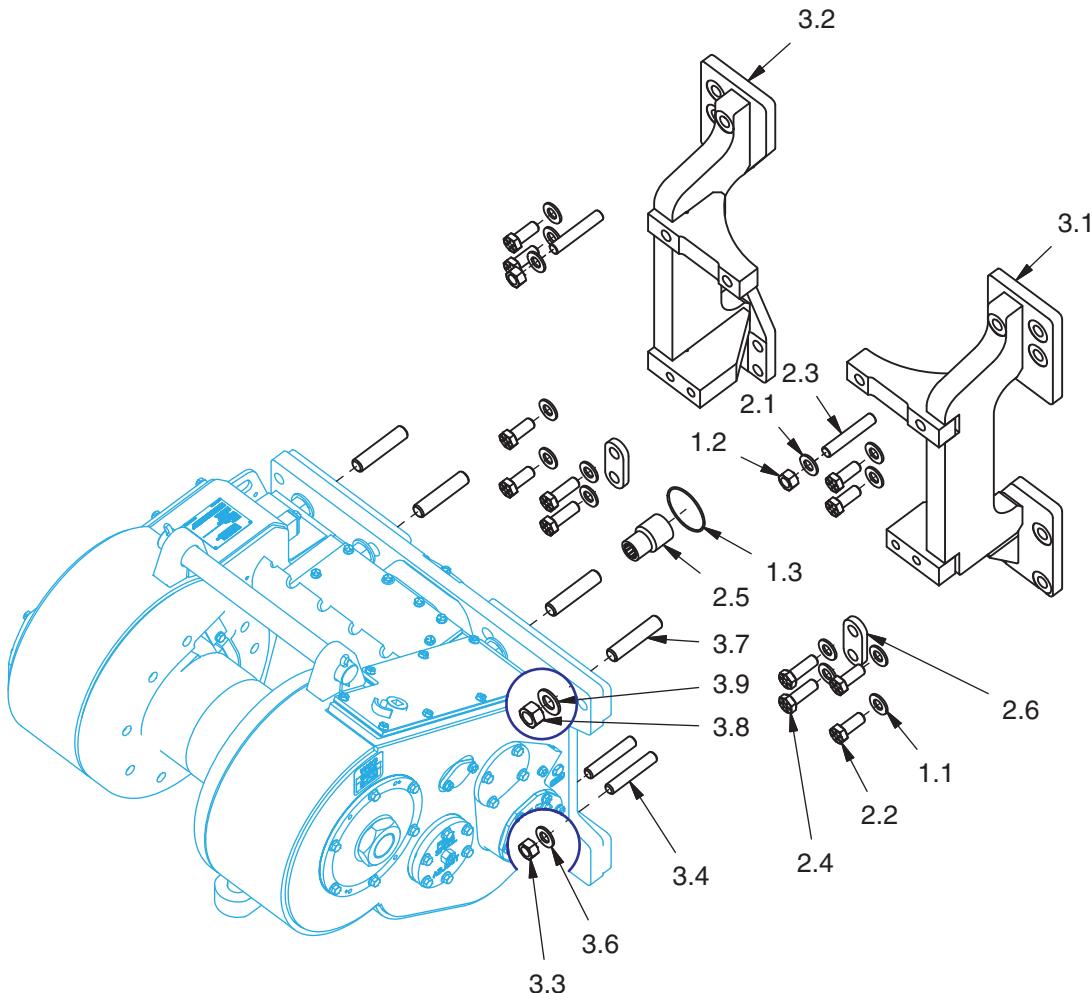


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	15887W	1	O-Ring	2.1	2314554	1	Bracket, RH Mounting
1.2	2300709W	1	Coupling - PTO	2.2	2314553	1	Bracket, LH Mounting
1.3	2314824	2	Plate, Spacer Bracket	2.3	221721W	4	Hex Nut
1.4	1308451W	8	Capscrew	2.4	2301144W	4	Stud
1.5	274044W	4	Capscrew	2.6	221780W	4	Washer
1.6	296435W	14	Washer	2.7	2301140W	4	Stud
1.7	* 2315880	2	Stud	2.8	221725W	4	Hex Nut
1.8	292660W	2	Nut	2.9	225851	4	Washer

* Apply Anaerobic Threadlocker (R15102)

Mounting Parts

AW6GE**C713 (CAT D6 BUILD 18A, 19A)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	221780W	12	Washer	3.1	2314554	1	Bracket, RH Mounting
1.2	221721W	2	Nut	3.2	2314553	1	Bracket, LH Mounting
1.3	15887W	1	O-Ring	3.3	221721W	4	Hex Nut
2.1	221780W	2	Washer	3.4	2301144W	4	Stud
2.2	221690W	8	Capscrew	3.6	221780W	4	Washer
2.3	* 259543W	2	Stud	3.7	2301140W	4	Stud
2.4	R13801898	4	Capscrew	3.8	221725W	4	Hex Nut
2.5	2300709W	1	Coupling - PTO	3.9	225851	4	Washer
2.6	2314824	2	Plate, Spacer Bracket				

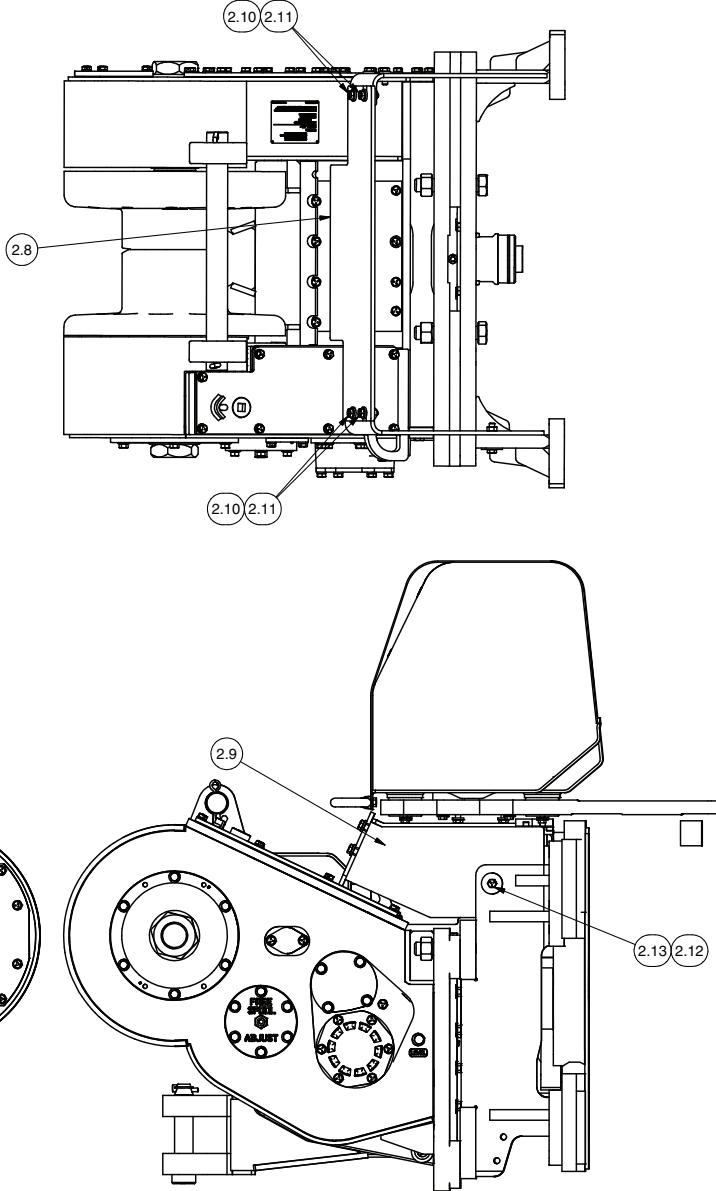
* Apply Anaerobic Threadlocker (R15102)

Mounting Parts

AW6GE**C810 (CAT D5 (build 17a) D6N Tractor Tier 4i; 4f (s/n prefix PER, PBA, GB6, SGG, NJN, MG5))
Page 1 of 3

TORQUE SPECIFICATIONS:

<u>FASTENER</u>	<u>TORQUE</u>
1/2-UNC	80 FT-LBS (108 N·m)



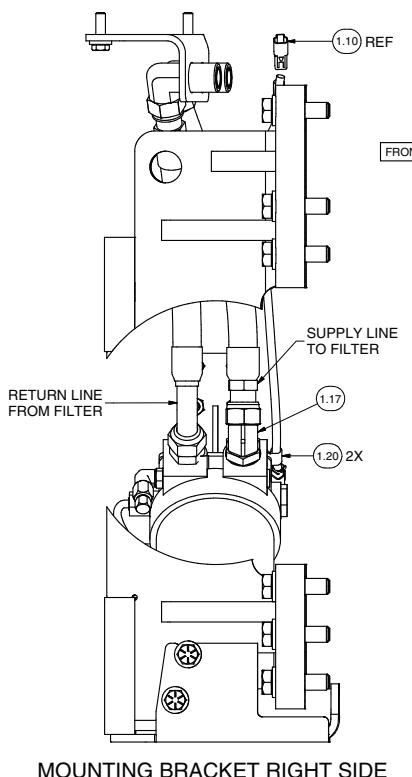
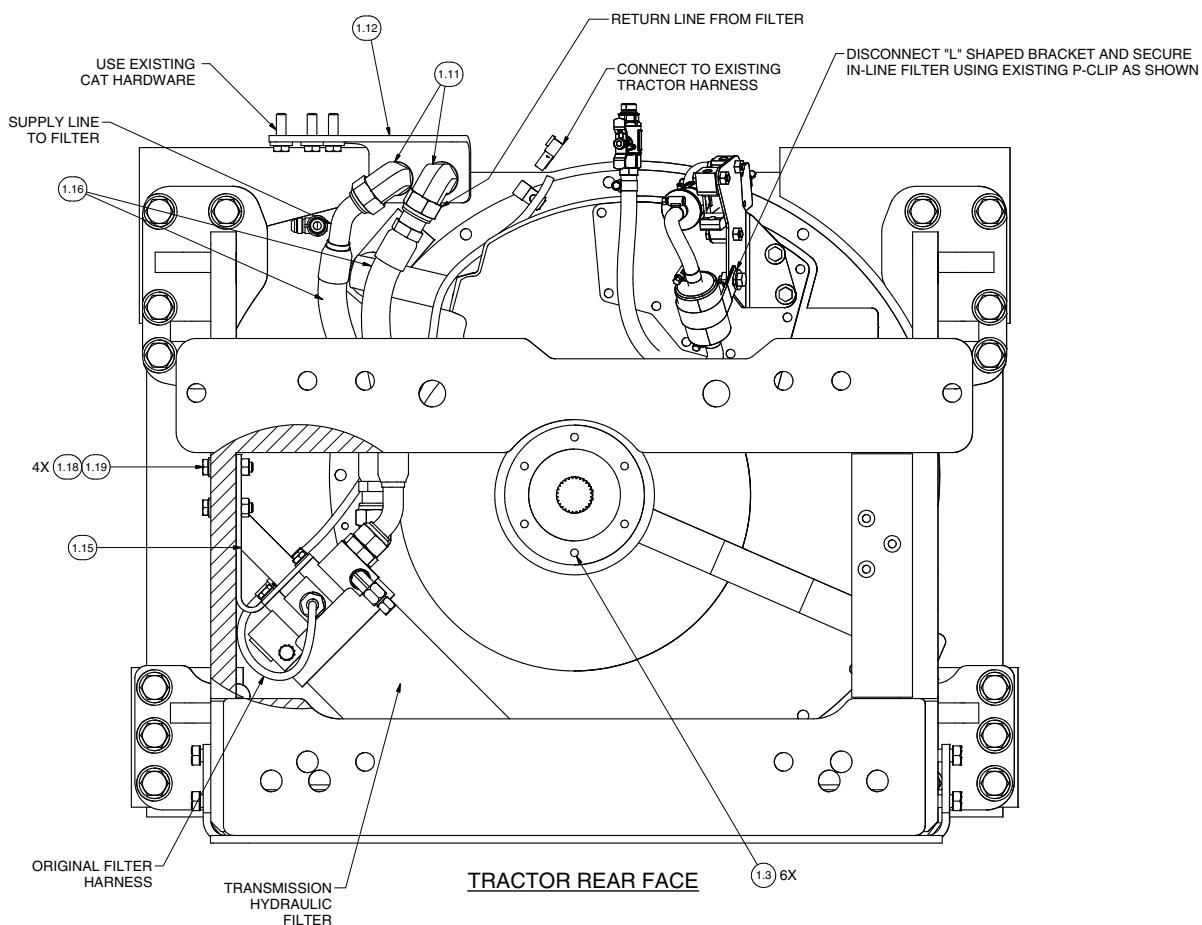
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	2305516W	1	Bracket - Mounting	1.20	243057	2	Clamp
1.2	2305541W	1	Guard, Bottom	2.1	* 2305619W	2	Capscrew
1.3	56995W	6	Plug	2.2	225851	4	Washer
1.4	15887W	1	O-Ring	2.3	221724W	2	Hex Nut
1.6	137852W	6	Cable Tie	2.4	* R13801901	4	Capscrew
1.7	221780W	10	Washer	2.5	* 221701W	2	Capscrew
1.8	* Y17C-1024	4	Capscrew	2.6	221720W	4	Hex Nut
1.9	234271	4	Washer	2.7	2314302	1	Guard, LH
1.10	2305617W	1	Harness, Filter	2.8	2314235	1	Plate-Center, Guard
1.11	2305620W	2	Fitting	2.9	2314237	1	Guard, RH
1.12	2305588W	1	Bracket	2.10	221771W	6	Washer
1.13	* 293710W	16	Capscrew	2.11	18588W	4	Capscrew
1.14	221777W	16	Washer	2.12	2305715W	1	Washer
1.15	2314735	1	Bracket	2.13	Y01C-0840	1	Capscrew
1.16	2314742	2	Hose Assembly	2.14	16830W	2	Capscrew
1.17	R833217	1	Fitting				
1.18	296422W	4	Washer				
1.19	Y09C-M1255	4	Capscrew				

* Apply Threadlocking compound (318702W)

Mounting Parts

AW6GE**C810 (CAT D5 (build 17a) D6N Tractor Tier 4i; 4f (s/n prefix PER, PBA, GB6, SGG, NJN, MG5))

Page 2 of 3

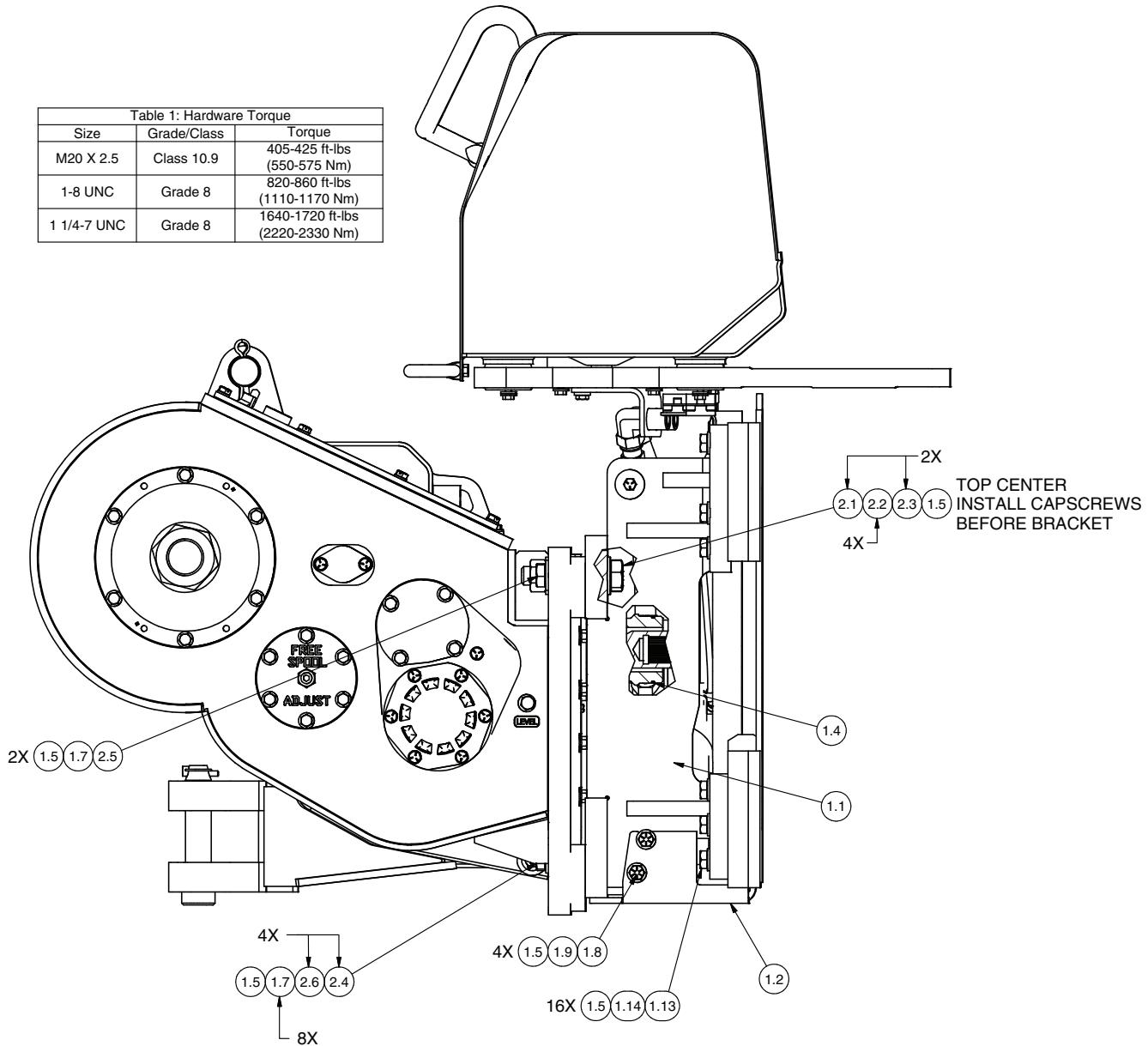


MOUNTING BRACKET RIGHT SIDE

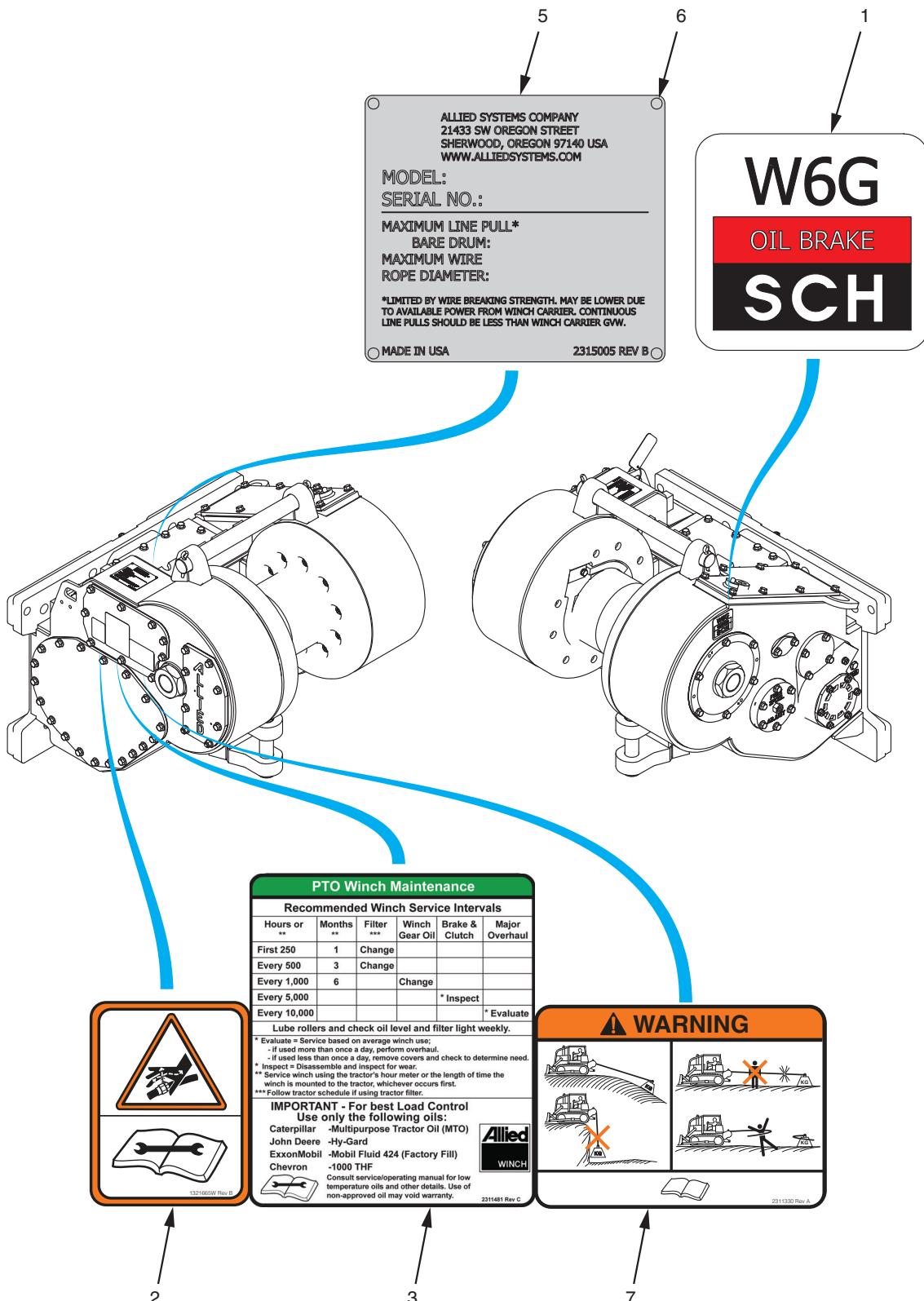
Mounting Parts

AW6GE**C810 (CAT D5 (build 17a) D6N Tractor Tier 4i; 4f (s/n prefix PER, PBA, GB6, SGG, NJN, MG5))
Page 3 of 3

Table 1: Hardware Torque		
Size	Grade/Class	Torque
M20 X 2.5	Class 10.9	405-425 ft-lbs (550-575 Nm)
1-8 UNC	Grade 8	820-860 ft-lbs (1110-1170 Nm)
1 1/4-7 UNC	Grade 8	1640-1720 ft-lbs (2220-2330 Nm)



Nameplate & Decals



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	2300792W	1	Decal, RH W6G	5	*a -----	1	Nameplate
2	1321665W	1	Decal, Warning	6	16602W	4	Screw
3	2311481	1	Decal, PTO Winch Maintenance	7	2311330	1	Decal, Load Warning

*a Contact Allied Systems

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Section 2

Gear Train/Shaft

Input Arrangements	12 thru 14
Pump Assembly	15
Clutch Group.....	16 thru 17
Clutch Assembly	18
Brake Assembly	19
Idler Gear Shaft	20
Intermediate Gear Shaft	22 thru 23
Drum Shaft.....	24 thru 25

High Input Arrangement

Page 1 of 2

AW6GE6*C810 (CAT D5 (build 17a) D6N Tractor Tier 4i; 4f (s/n prefix PER, PBA, GB6, SGG, NJN, MG5))

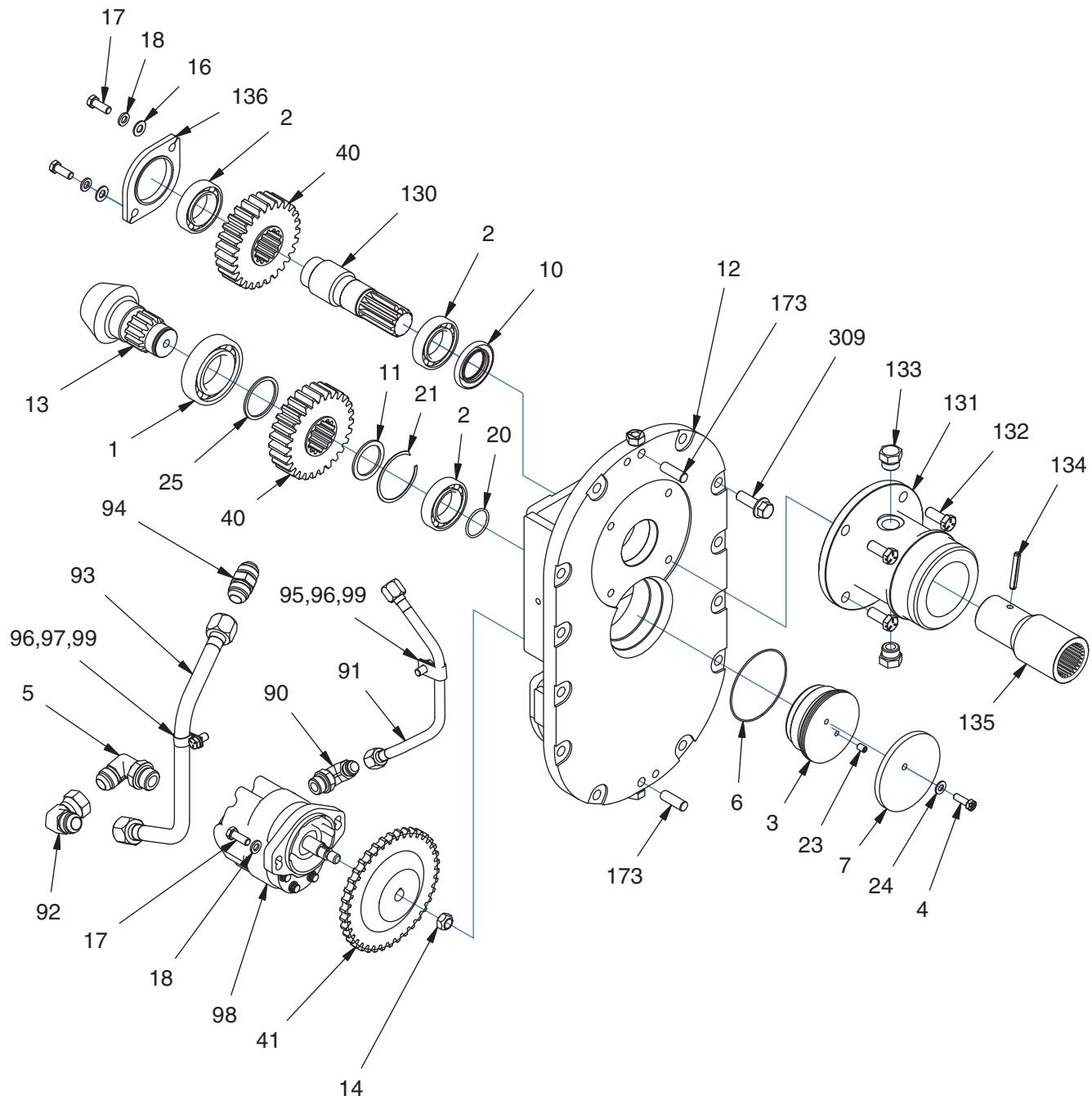
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	41210W	1	Bearing - Ball	41	2307118W	1	Gear, Pump
2	44308W	3	Bearing - Ball	90	17224W	1	Fitting
3	2306200W	1	Adjuster	91	2300778W	1	Tube Assembly
4	2306349W	1	Screw	92	83857W	1	Fitting
5	16561W	1	Fitting	93	2300777W	1	Tube Assembly
6	39371W	1	O-Ring	94	14694W	1	Fitting
7	2305628W	1	Plate, Keeper	95	136516W	1	Clamp
10	165035W	1	Seal, Oil	96	16597W	2	Capscrew
11	2306423W	1	Spacer	97	181089W	1	Clamp
12	2306561W	1	Carrier - Input	98	* 2302963W	1	Pump Assembly (See page 15)
13	2307599W	1	Gear, Bevel Pinion	99	R13812514	2	Washer
14	R13804177	1	Locknut	130	2300646W	1	Shaft, Input
16	15134W	2	Washer	131	2305497W	1	Carrier, Bearing
17	16805W	4	Capscrew	132	178402W	4	Capscrew
18	R13812514	4	Lockwasher	133	216590W	2	Fitting
20	2306202W	1	O-Ring	134	19929W	1	Pin
21	2306203W	1	Snaph Ring	135	2305498W	1	Coupler
23	2306350W	1	Setscrew	136	2300645W	1	Bearing, Retainer
24	18515W	1	Washer	173	222734W	2	Pin
25	2304942W	1	Spacer	309	2303898W	12	Screw, Flange
40	2300749W	2	Gear				

* See Separate Coverage

High Input Arrangement

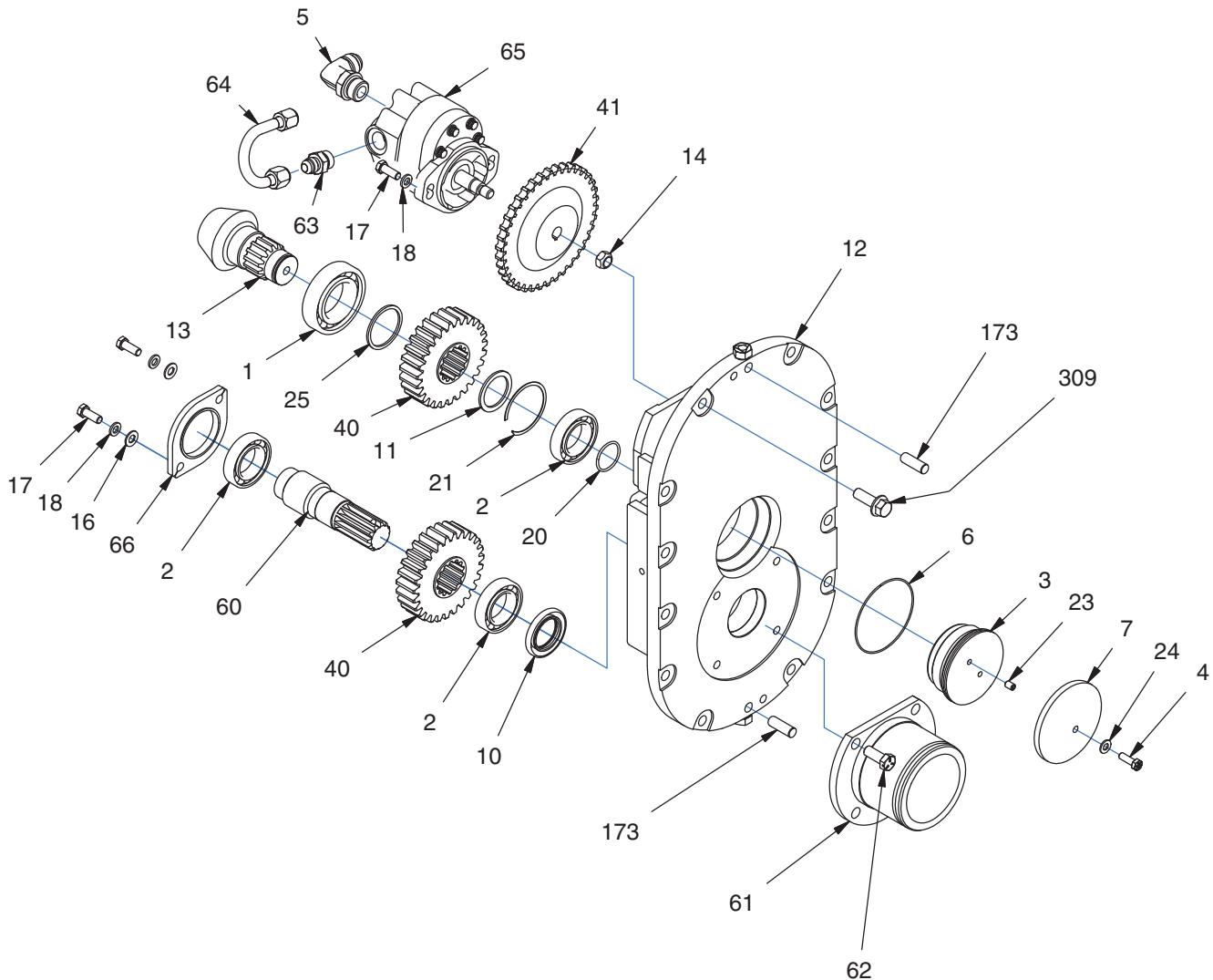
Page 2 of 2

AW6GE6*C810 (CAT D5 (build 17a) D6N Tractor Tier 4i; 4f (s/n prefix PER, PBA, GB6, SGG, NJN, MG5))



Low Input Arrangement

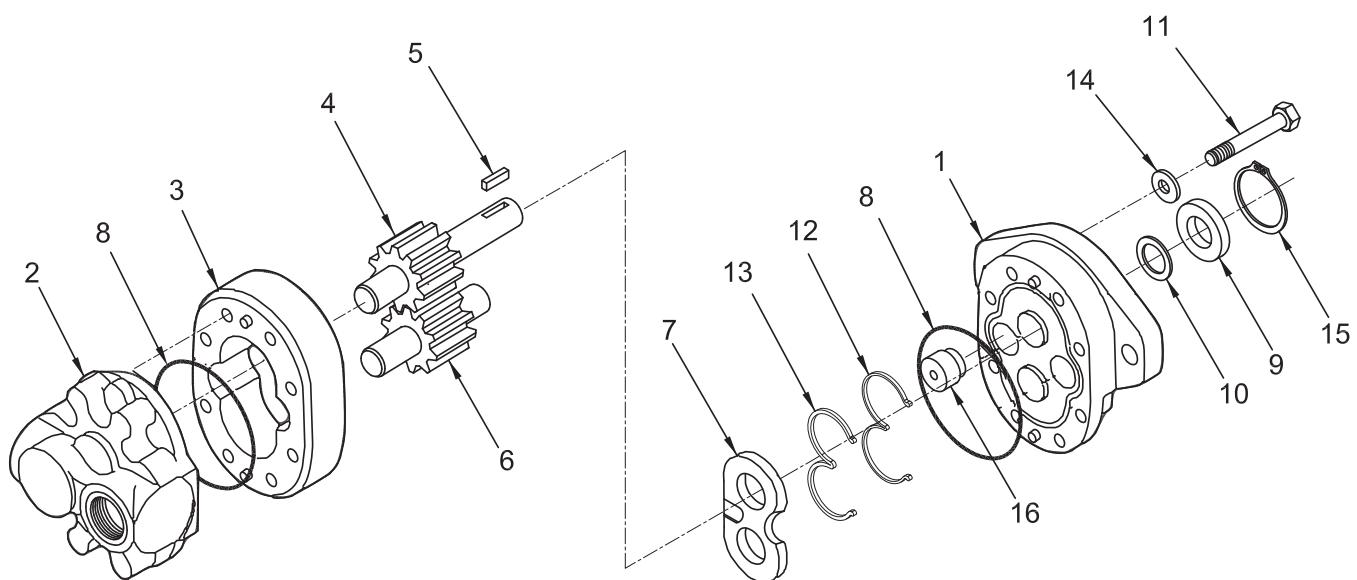
AW6GE6*C712* (CAT D6 BUILD 20A)
AW6GE6*C713* (CAT D6 BUILD 18A, 19A)
AW6GE6*C71* (CAT D6T, D6R II)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	41210W	1	Bearing - Ball	21	2306203W	1	Snap Ring
2	44308W	3	Bearing - Ball	23	2306350W	1	Setscrew
3	2306200W	1	Adjuster	24	18515W	1	Washer
4	2306349W	1	Screw	25	2304942W	1	Spacer
5	16561W	1	Fitting	40	2300749W	2	Gear
6	39371W	1	O-Ring	41	2307118W	1	Gear, Pump
7	2305628W	1	Plate, Keeper	60	2300646W	1	Shaft, Input
10	165035W	1	Seal, Oil	61	2300648W	1	PTO Pilot
11	2306423W	1	Spacer	62	178402W	4	Capscrew
12	2306561W	1	Carrier - Input	63	16909W	1	Fitting
13	2307599W	1	Gear, Bevel Pinion	64	2300759W	1	Tube Assembly
14	R13804177	1	Locknut	65	* 2302963W	1	Pump Assembly (See page 15)
16	15134W	2	Washer	66	2300645W	1	Bearing, Retainer
17	16805W	4	Capscrew	173	222734W	2	Pin
18	R13812514	4	Lockwasher	309	2303898W	12	Screw, Flange
20	2306202W	1	O-Ring				

* See Separate Coverage

Pump Assembly



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2302963W		Assembly, Gear Pump				
1	NSS	1	. Plate, Front	9	*a NSS	1	. Seal
2	NSS	1	. Plate, Back	10	*a NSS	1	. Washer
3	NSS	1	. Body	11	NSS	4	. Capscrew
4	NSS	1	. Gear, Drive	12	*a NSS	1	. Gasket
5	316823W	1	. Key	13	*a NSS	1	. Seal
6	NSS	1	. Gear, Idler	14	NSS	4	. Washer
7	*a NSS	1	. Plate, Wear	15	NSS	1	. Ring, Retaining
8	*a NSS	1	. O-Ring	16	NSS	1	. Plug

*a Included in 2302937W Repair Kit

Clutch Group

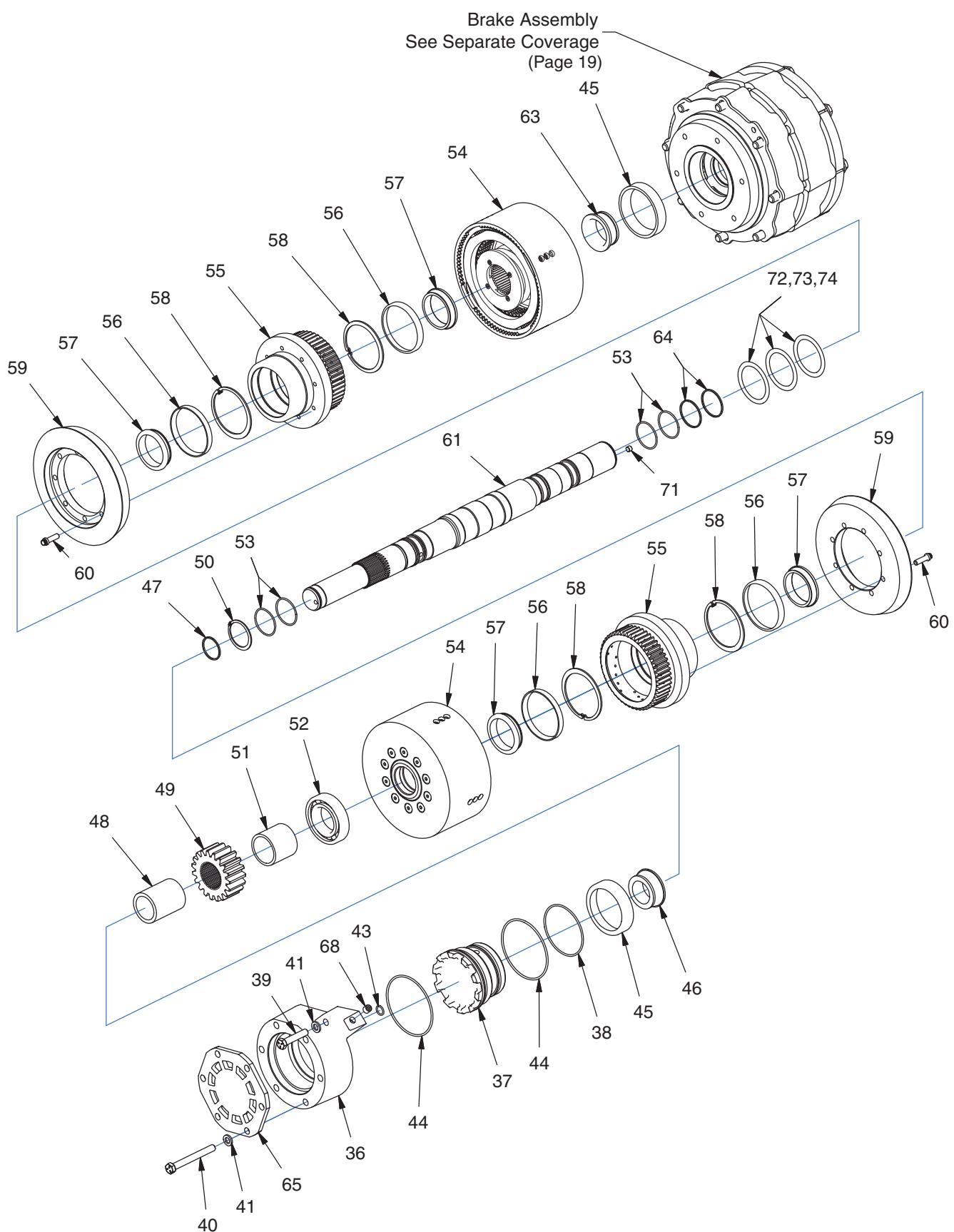
Page 1 of 2

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
36	2302479W	1	Retainer, Bearing RH	54	*	2300707W	2	Clutch Assembly (See page 18)
37	2305994W	1	Bearing Adjuster	55	2300606W	2	Hub, Clutch	
38	203533	1	O-Ring	56	2300671W	4	Bearing, Cup	
39	307788W	2	Capscrew	57	2300672W	4	Bearing Cone	
40	2302498W	5	Capscrew	58	184818W	4	Snap Ring	
41	15158W	7	Lockwasher	59	2300610W	2	Gear, Bevel	
43	63105W	1	O-Ring	60	246769W	16	Capscrew	
44	55289W	2	O-Ring	61	2307029W	1	Clutch Shaft	
45	2300668W	2	Bearing Cup	63	2300673W	1	Bearing Cone	
46	2300669W	1	Bearing Cone	64	2300643W	2	Seal Ring	
47	219070W	1	Ring, Seal	65	2304690W	1	Keeper	
48	2300612W	1	Spacer	68	15483W	1	Fitting	
49	2300613W	1	Gear, Clutch Shaft	71	15347W	1	Set Screw	
50	58924W	1	Snap Ring	72	2306398W	A/R	Shim, 0.005"	
51	2300634W	1	Spacer	73	2306399W	A/R	Shim, 0.007"	
52	43211W	1	Bearing - Ball	74	2306400W	A/R	Shim, 0.020"	
53	39442W	4	O-Ring					

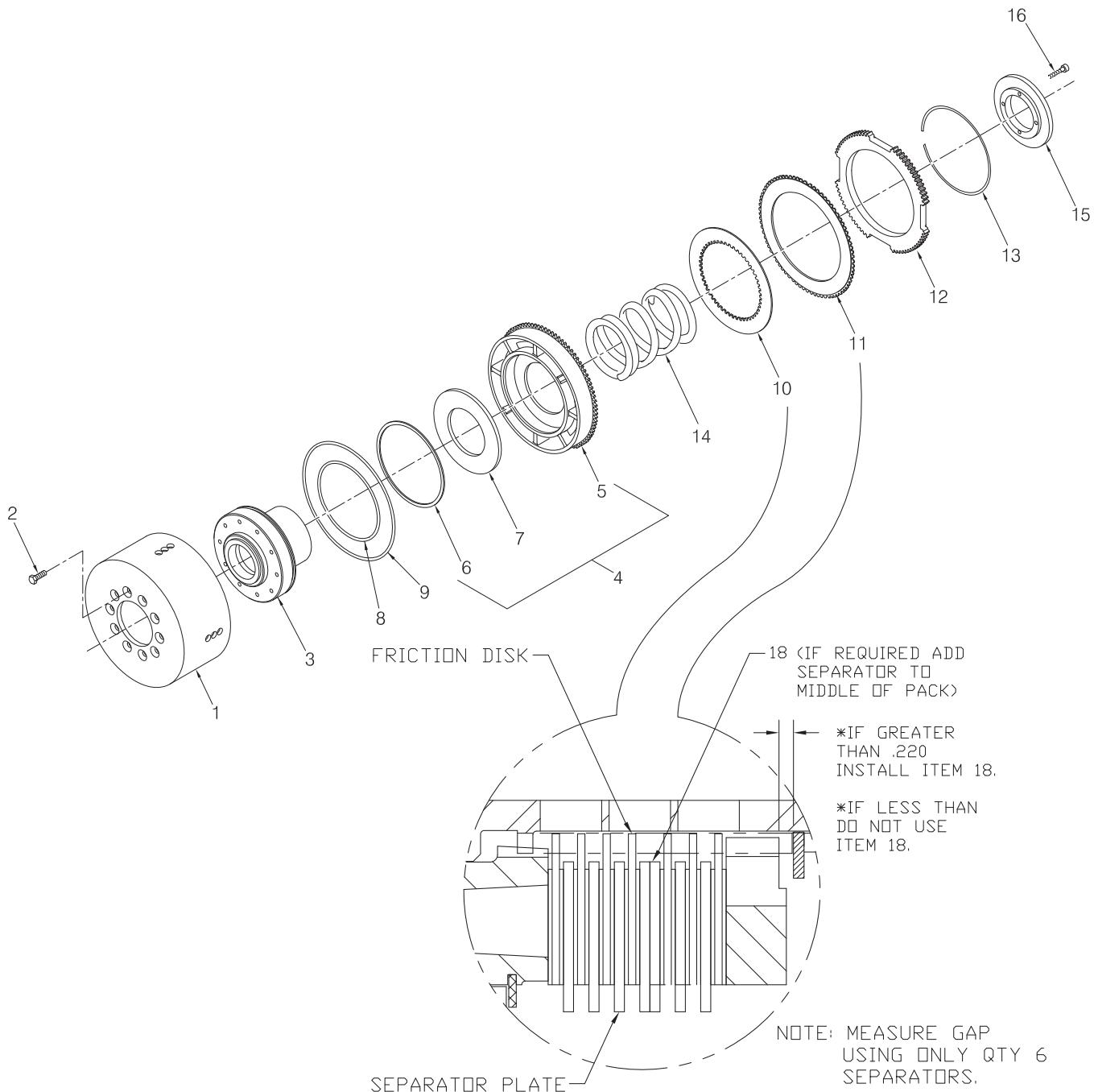
* See Separate Coverage

Clutch Group

Page 2 of 2

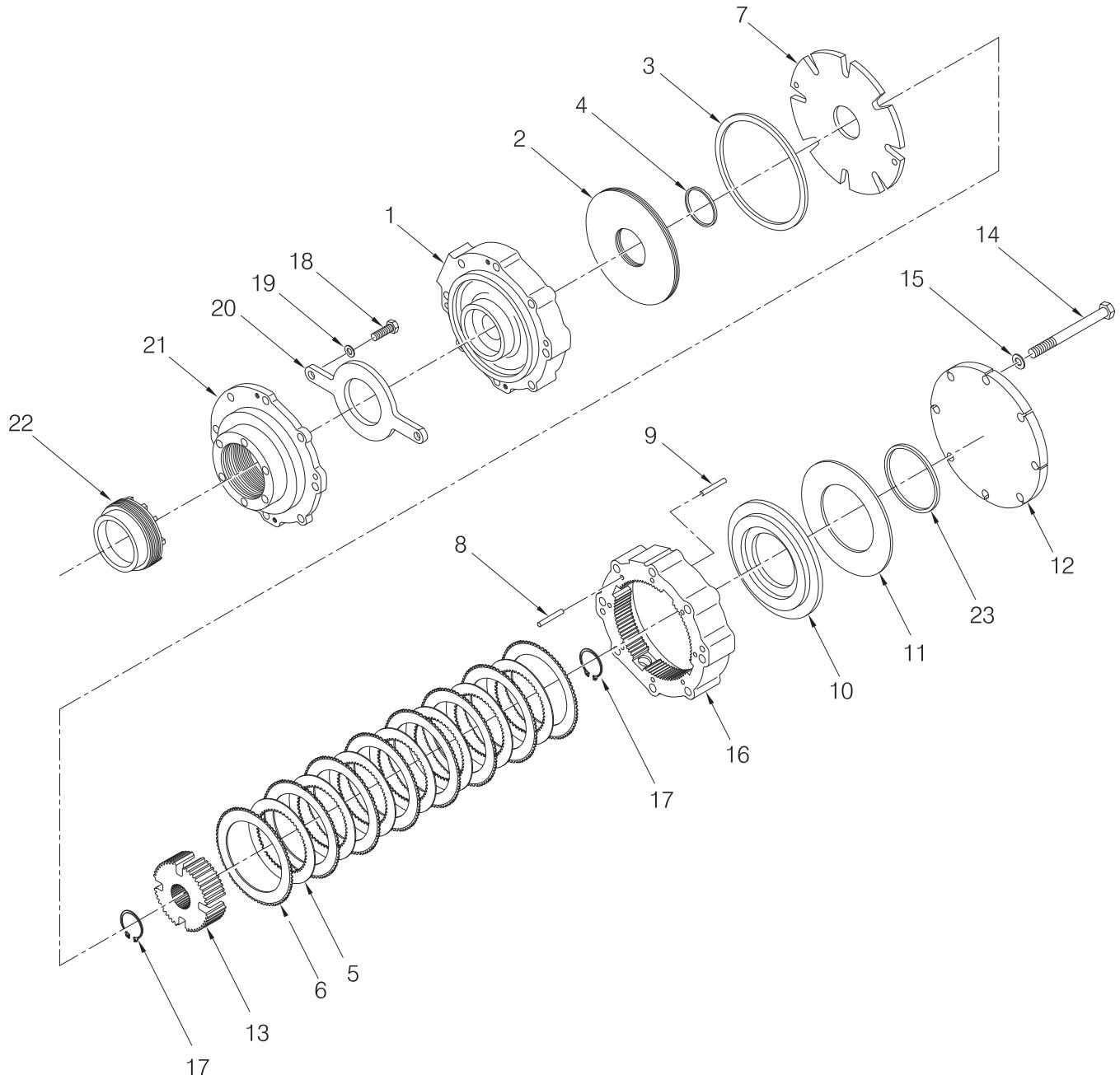


Clutch Assembly



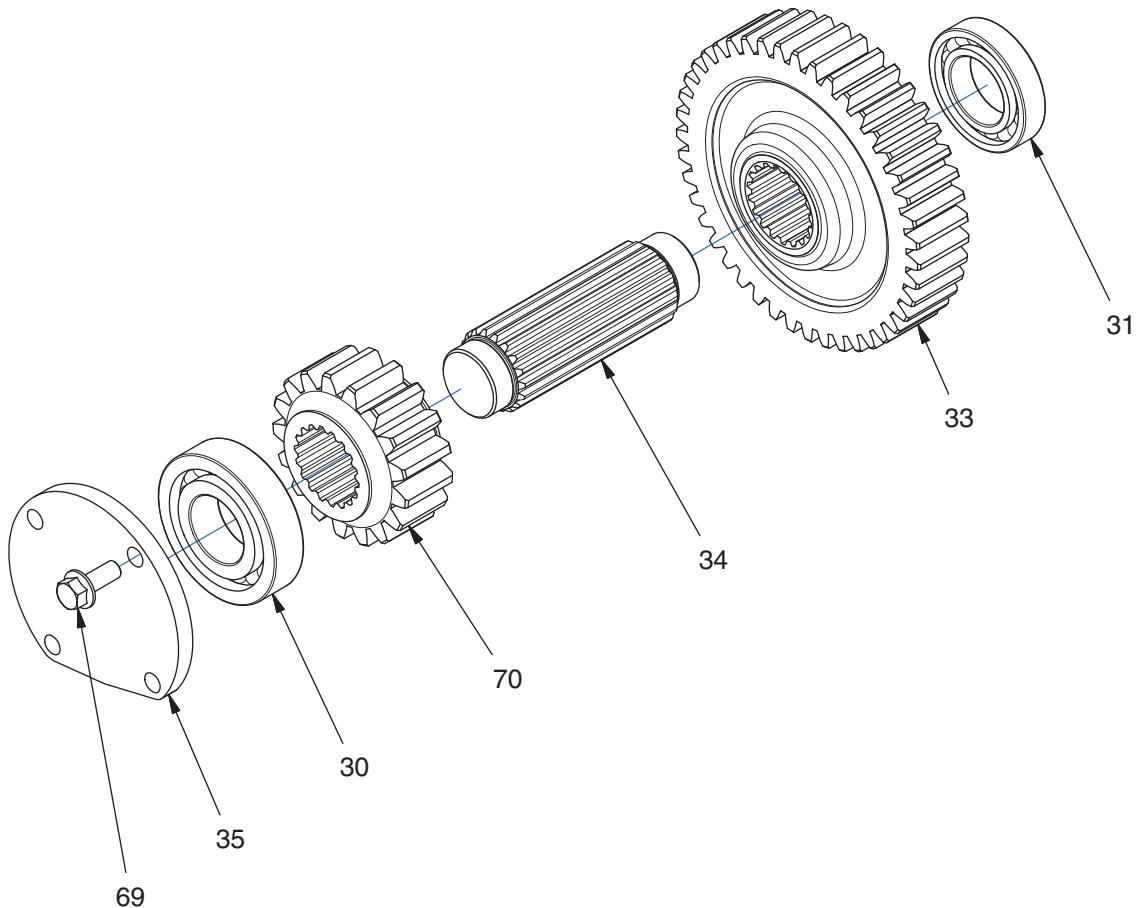
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2300707W		Assembly, Clutch				
1	2305072W	1	. Assembly, Clutch Spider	11	*a 328715W	7	. Disc, Friction
2	295752W	10	. . Capscrew	12	2300618W	1	. Plate, Clutch
3	*c 2304978W	1	. . Hub	13	2300670W	1	. Ring, Snap
4	2300604W	1	. . Assembly, Piston	14	*a 2300619W	1	. Spring
5	2305607W	1	. . Piston	15	2300608W	1	. Spring, Retainer
6	2305609W	1	. . Ring, Retaining	16	16338W	4	. Capscrew
7	2305608W	1	. . Plate, Spring Reaction	18	261542W	1	. Plate, Separator (See Detail)
8	*a 89777W	1	. O-Ring				
	*b 15893W	1	. O-Ring				*a Included in 2302774W Service Kit
9	*a 79972W	1	. O-Ring				*b Included in Cold-Weather Seal Package
	*b 113586W	1	. O-Ring				P/N 2305406W
10	*a 261542W	6	. Plate, Separator				*c Use 318702W Thread Lock

Brake Assembly



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	2305993W	1	Brake Housing Assembly	12	2300631W	1	Cover, Brake
2	133926W	1	Piston	13	2300630W	1	Hub, Brake
3	133927W	1	Ring, Seal	14	2301522W	8	Capscrew
3 *a	2305405W	1	Ring, Seal	15	234271	8	Washer
4	79979W	1	O-Ring	16	2300627W	1	Cage
4 *a	46629W	1	O-Ring	17	12963W	2	Snap Ring
5	261542W	7	Plate, Separator	18	221563W	2	Capscrew
6	328715W	8	Disc, Friction	19	15135W	2	Washer
7	2300629W	1	Plate, Pressure	20	2302490W	1	Keeper
8	92867W	2	Pin	21	2302484W	1	Housing, LH Bearing Retainer
9	2301523W	8	Thrust Pin	22	2306983W	1	Retainer, Bearing
10	265401W	1	Ring	23	2310475	1	Ring, Stroke Limiter
11	193912W	1	Spring				

*a Included in Cold-Weather Seal Package 2305406W

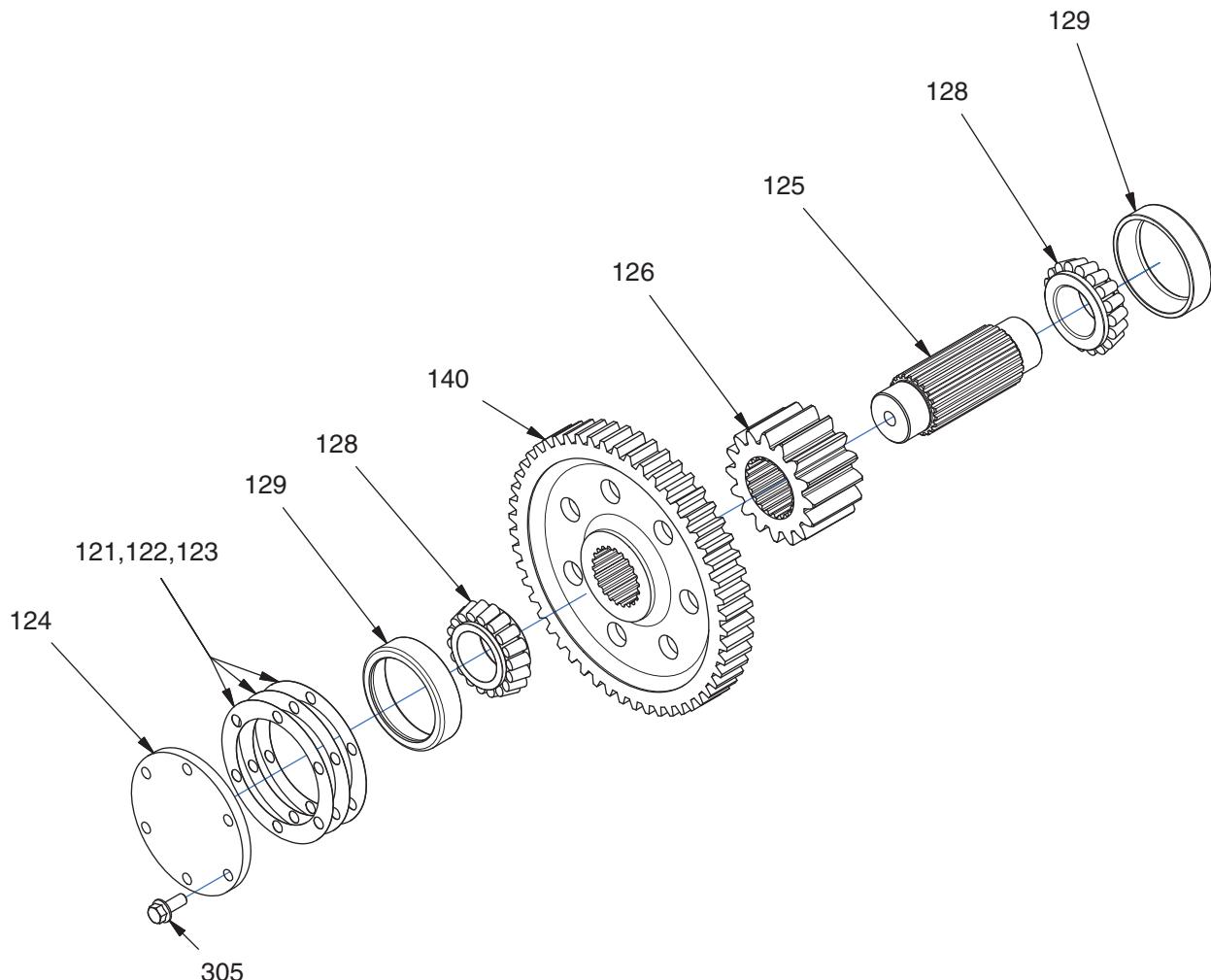
Idler Gear Shaft

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
30	43310W	1	Bearing - Ball	35	2300746W	1	Retainer - Bearing
31	43210W	1	Bearing - Ball	69	2303848W	4	Screw, Flange
33	2300614W	1	Gear, Idler Shaft, 43T	70	2304675W	1	Gear, 17T
34	2300616W	1	Shaft, Idler				

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Intermediate Gear Shaft

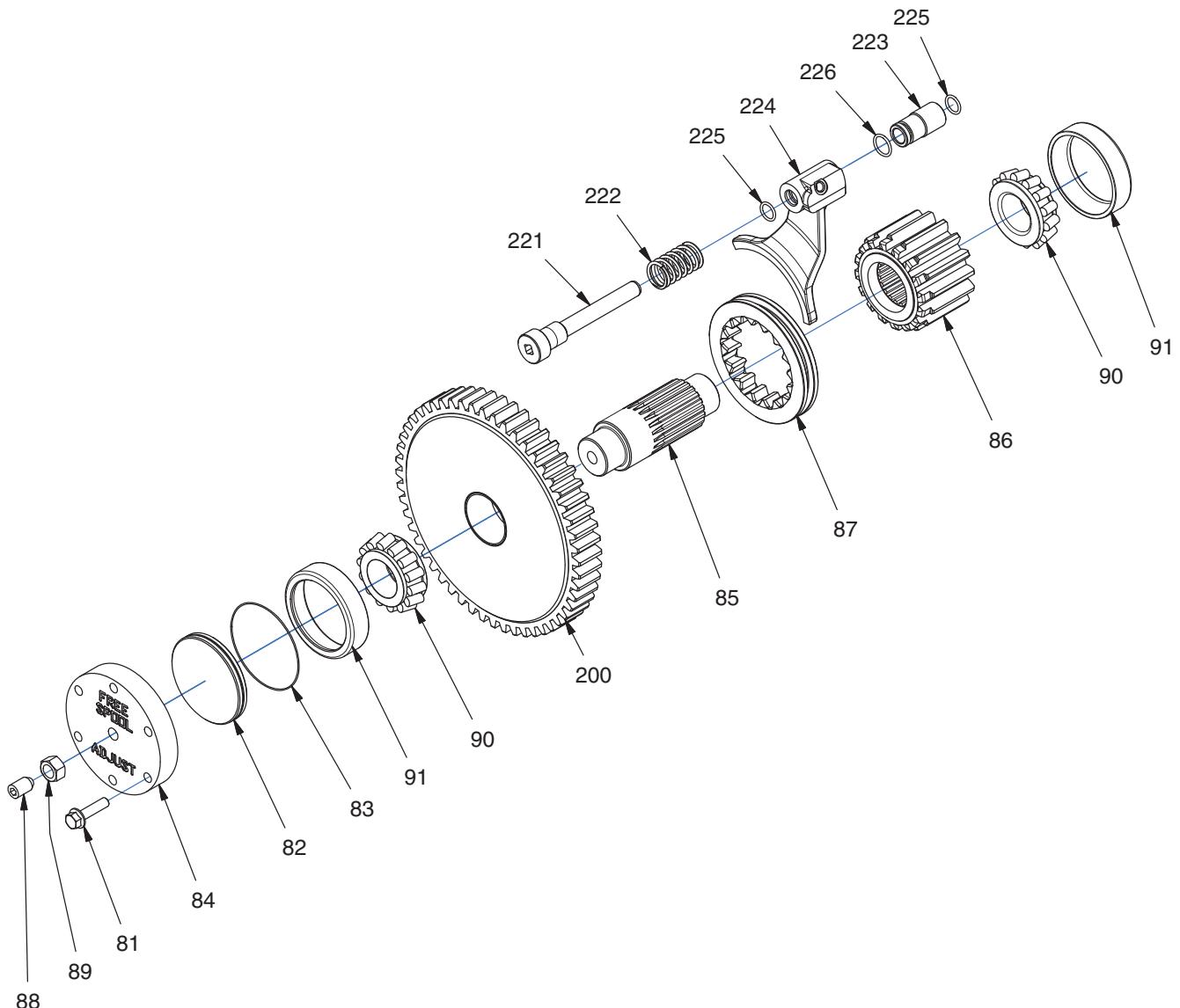
Without Freespool



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
121	149541W	A/R	Shim, 0.005"	126	95973W	1	Gear, 16T
122	149542W	A/R	Shim, 0.007"	128	30080W	2	Bearing Cone
123	149543W	A/R	Shim, 0.020"	129	30059W	2	Bearing Cup
124	280262W	1	Retainer, Bearing	140	96031W	1	Gear, 49T
125	95972W	1	Shaft	305	2303848W	6	Screw, Flanged

Intermediate Gear Shaft

With Freespool



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
81	2305415W	6	Flange Screw	90	2302311W	2	Bearing Cone
82	2302624W	1	Piston	91	30059W	2	Bearing Cup
83	159940W	1	O-Ring	200	283433W	1	Gear
84	2302625W	1	Housing	221	2311894	1	Shaft
85	2305956W	1	Shaft, Intermediate	222	2305096W	1	Spring
86	2312280	1	Gear, Pinion	223	2305097W	1	Piston
87	2312269	1	Clutch - Dental	224	2305099W	1	Shifter, Fork
88	2304803W	1	Set Screw, Adjusting	225	15862W	2	O-Ring
89	221717W	1	Hex Nut	226	212380	1	O-Ring

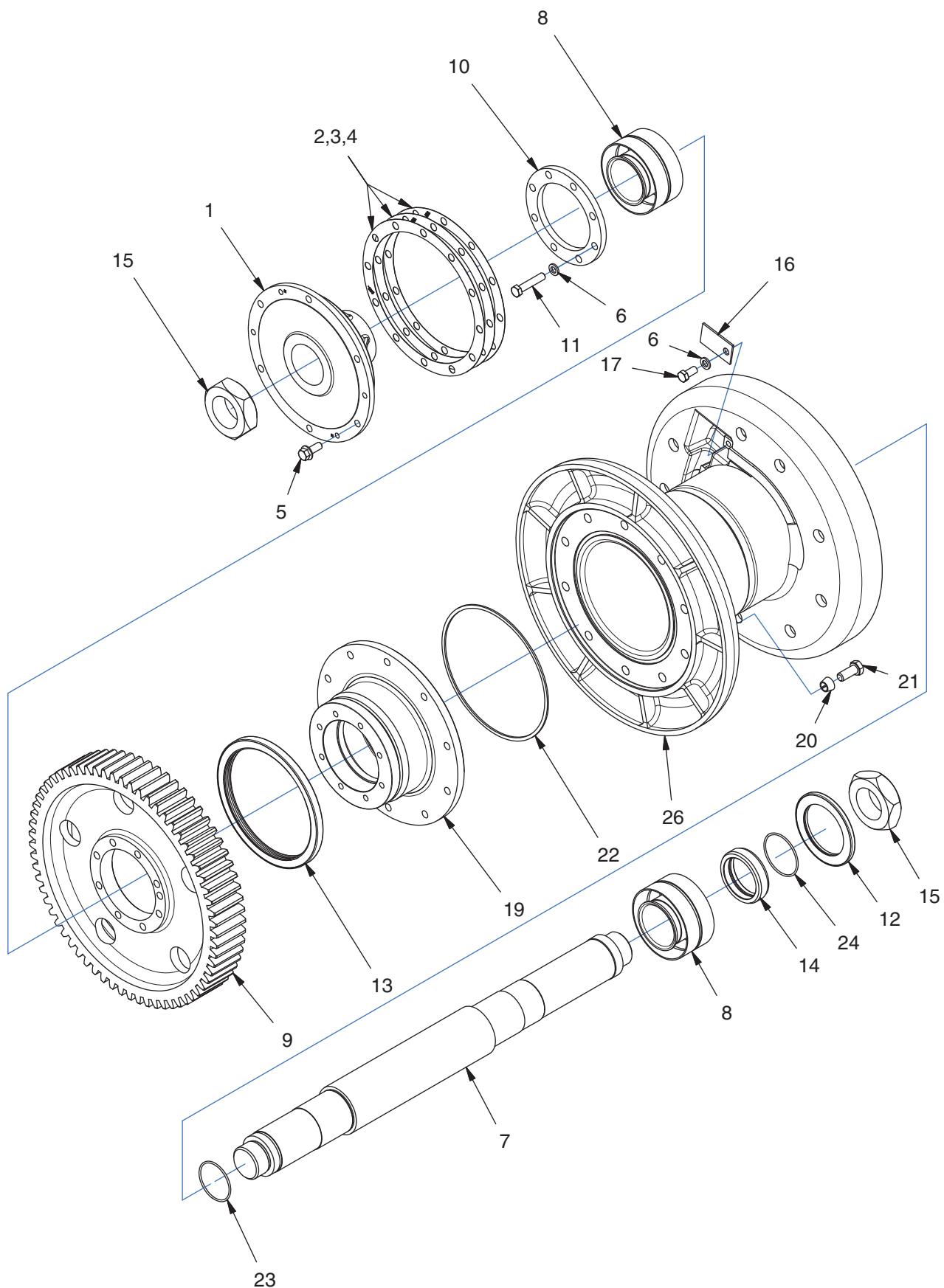
Drum Shaft

Page 1 of 2

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	172810W	1	Retainer, Drum	13	141671W	1	Seal, Oil
2	175646W	2	Shim, 0.005"	14	172808W	1	Spacer
3	175647W	2	Shim, 0.007"	15	6607W	2	Hex Nut
4	175648W	2	Shim, 0.020"	16	2301783W	1	Keeper, Ferrule
5	2303848W	6	Screw, Flange	17	16829W	1	Capscrew
6	15158W	9	Lockwasher	19	141674W	1	Adapter
7	2300632W	1	Shaft, Drum	20	53559W	10	Thimble, Tapered
8	230406W	2	Bearing Assembly	21	2310891	10	Capscrew
9	95977W	1	Gear	22	133927W	1	Ring
10	95978W	1	Plate, Retainer	23	90263W	1	O-Ring
11	221577W	8	Capscrew	24	15881W	1	O-Ring
12	44547W	1	Seal, Oil	26	141676W	1	Drum

Drum Shaft

Page 2 of 2



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Section 3

Hydraulics/Controls

Hydraulic Group	28 thru 31
Valve Manifold Assembly	32 thru 33
Joystick Installation	34 thru 35

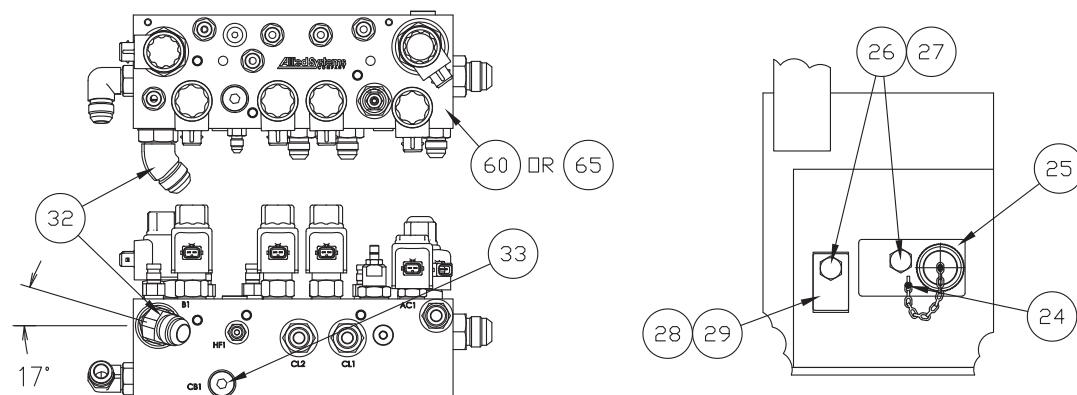
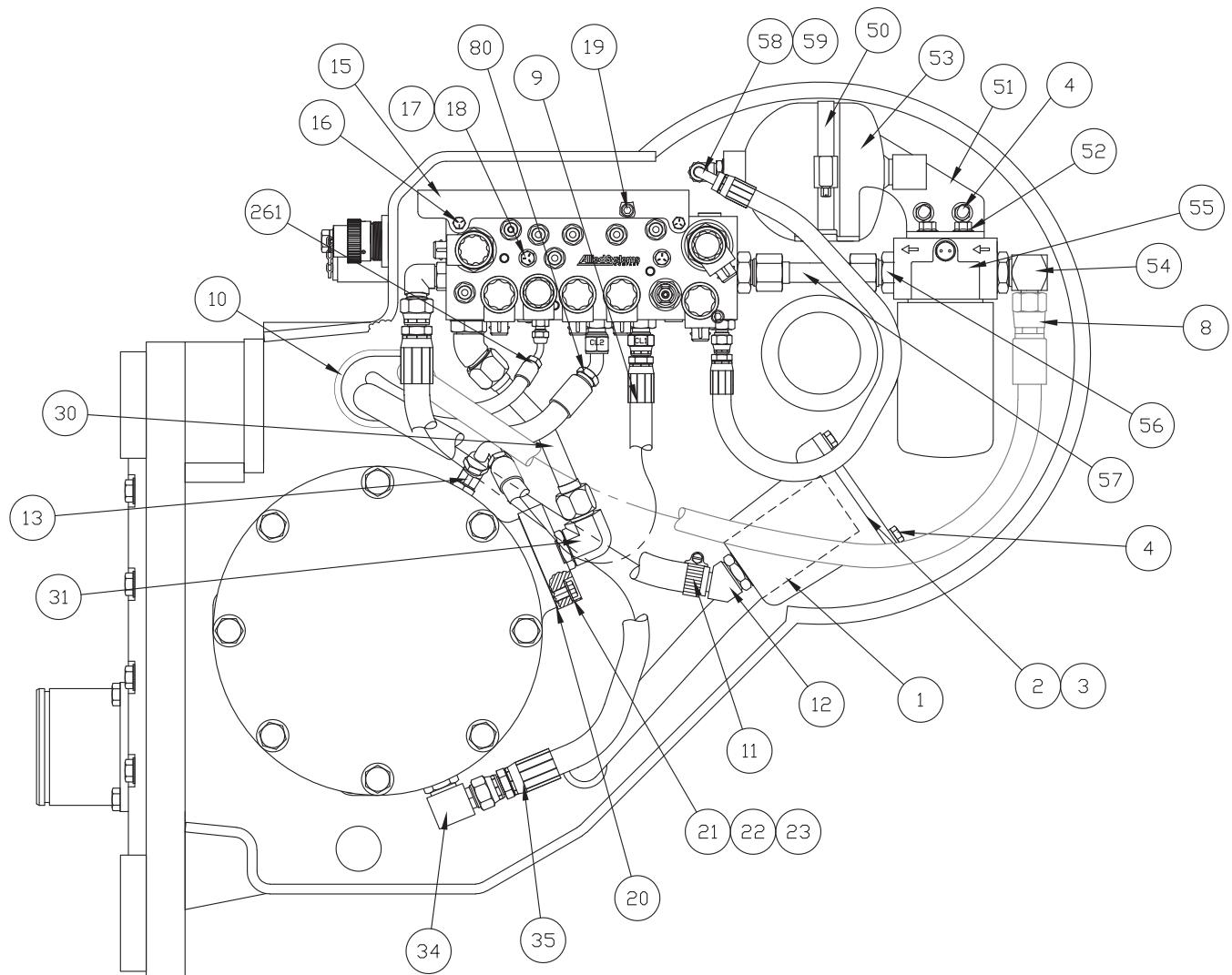
Hydraulic Group

Page 1 of 4

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	219172W	1	Strainer	35	2316025	1	Hose Assembly
2	2300936W	1	Cover	37	129563W	1	Cable Tie
3	2300935W	1	Gasket	38	2317616	1	Wire Harness, Adapter
4	1300780W	4	Screw, Serrated Flange	40	*c 2300760W	1	Hose Assembly
6	2300758W	1	Check Valve	41	*c 129563W	1	Cable Tie
7	17315W	1	Fitting	50	*e 2302109W	1	Clamp
8	2300767W	1	Hose Assembly	51	*e 2305114W	1	Bracket - Mounting, Acc/Filter
9	2303739W	1	Hose Assembly	52	*e 1300780W	2	Screw, Serrated Flange
10	24257	12'	Trim, Edge	53	*e R16271	1	Accumulator
11	2312581	1	Clamp - Heavy Duty	54	*e 138811W	1	Fitting
12	2302985W	1	Fitting	55	*e 2317441	1	Assembly, Filter
13	16568W	1	Fitting		*e 2305132W	1	. Filter Head
14	2317615	1	Wire Harness, Internal		*e 2304112W	1	. Element, Filter
15	2315822	1	Plate, Splash Guard		*e 2317424	1	. Switch, Pressure
16	133469W	2	Capscrew	56	*e 16543W	1	O-Ring
17	18526W	2	Capscrew	57	*e 2306736W	1	Tube Assembly - Inlet
18	18515W	2	Washer	58	*e 110174W	1	Fitting
19	2305987W	3	Setscrew	59	*e 2316749	1	Hose Assembly
20	196022W	1	Gasket	60	*a*f 2315717	1	Assembly, Manifold (See page 32)
21	279392W	1	Block	61	*a 2312259	1	Plug, Counter
22	16828W	2	Capscrew	62	*a 2317624	1	Module, W6GE Non-Freespool
23	15134W	2	Washer	65	*b*f 2315945	1	Assembly, Manifold (See page 33)
24	16602W	1	Screw	66	*b 129563W	1	Cable Tie
25	2311807	1	Retainer, Connector	67	*b 2317622	1	Module, W6GE With Freespool
26	178403W	2	Capscrew	70	*d 16989W	1	Fitting
27	15158W	2	Lockwasher	71	*d 2300760W	1	Hose Assembly
28	2304366W	1	Plate - Cover	80	588263	1	Hose Assembly
29	303946W	1	Gasket	261	*b 2305560W	1	Hose Assembly
30	2315998	1	Tube Assembly, Brake	263	*b 16565W	1	Fitting
31	222402W	1	Fitting	300	2317456	1	Bluetooth Transmitter (Optional)
32	16570W	1	Fitting		*a Used on AW6GE6N*****		
33	222443W	1	Fitting		*b Used on AW6GE6F*****		
34	201776W	1	Fitting		*c Used on All Except AW6GE6*C810		
					*d Used only on AW6GE6*C810		
					*e Included in Filter & Accumulator Assembly 2312868		
					*f See Separate Coverage		

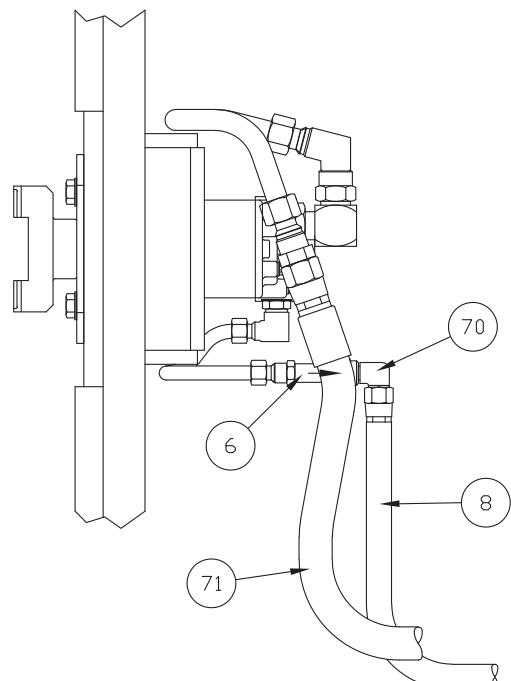
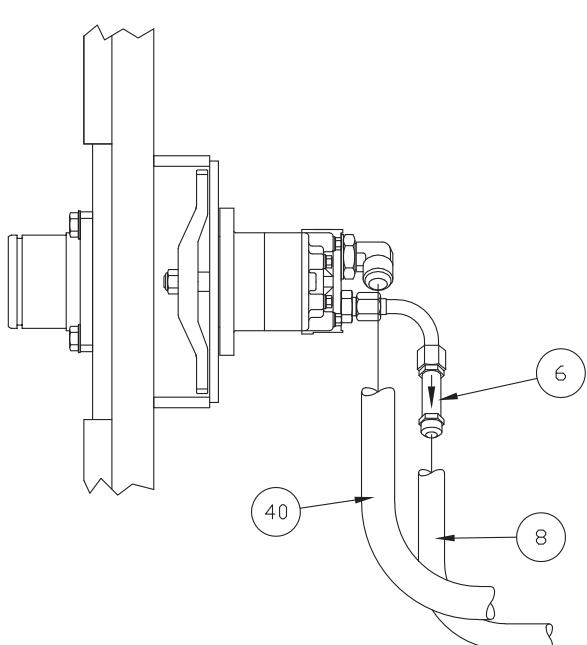
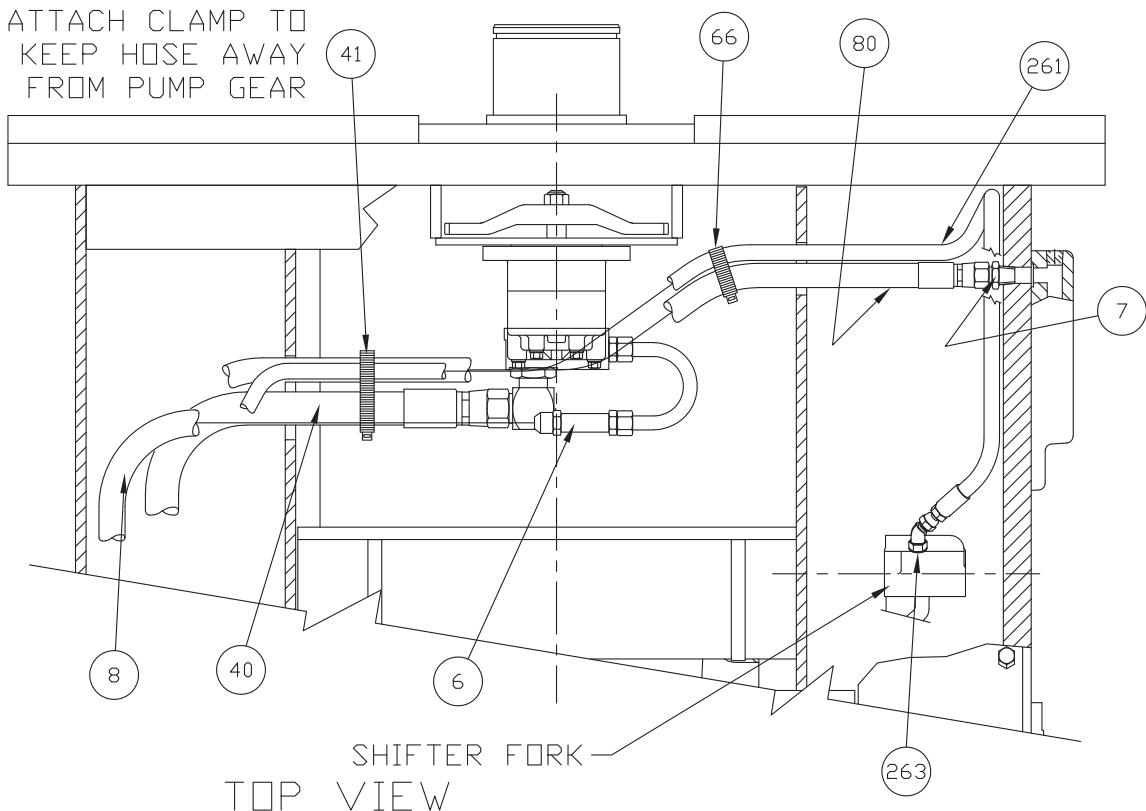
Hydraulic Group

Page 2 of 4



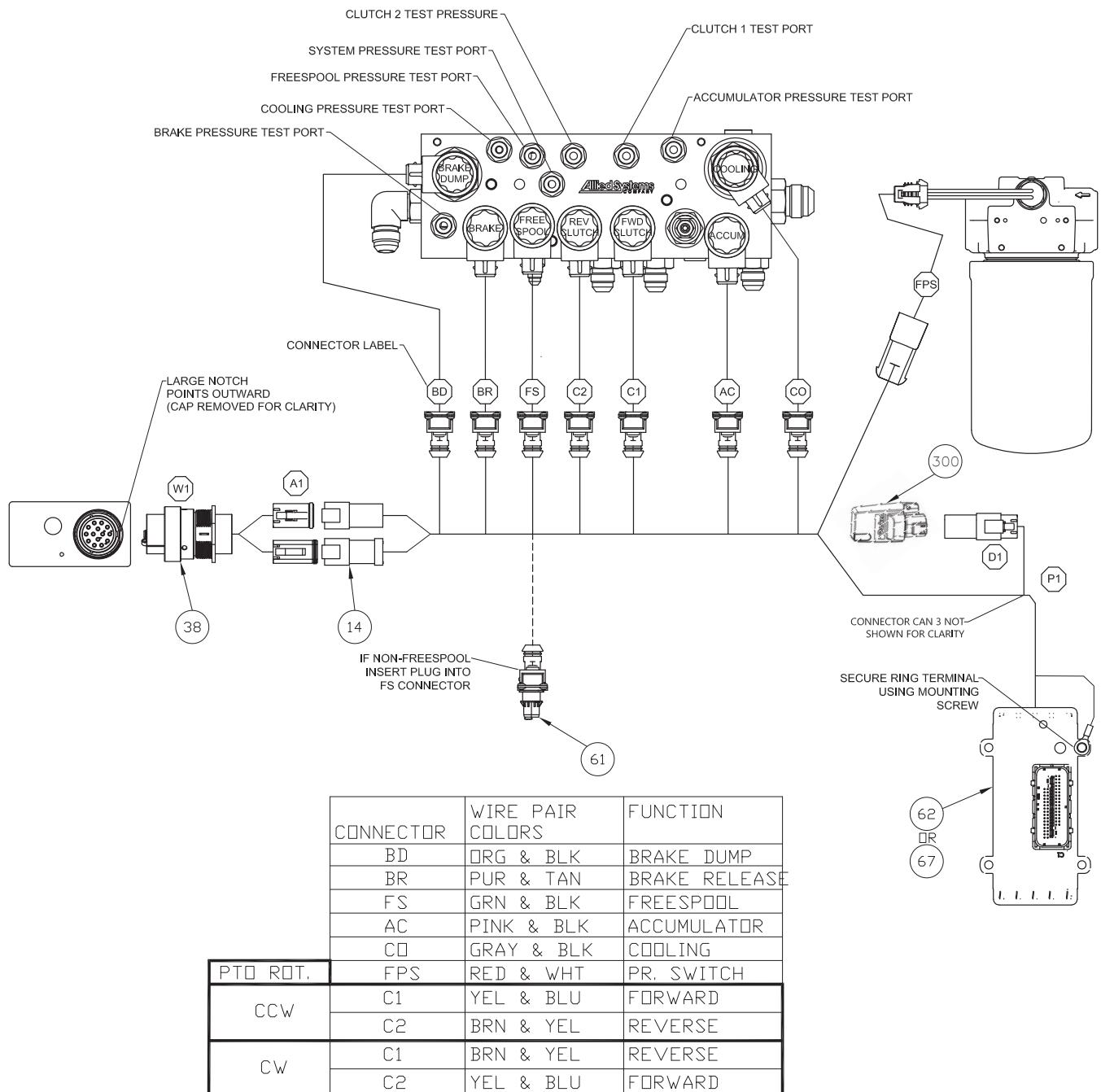
Hydraulic Group

Page 3 of 4



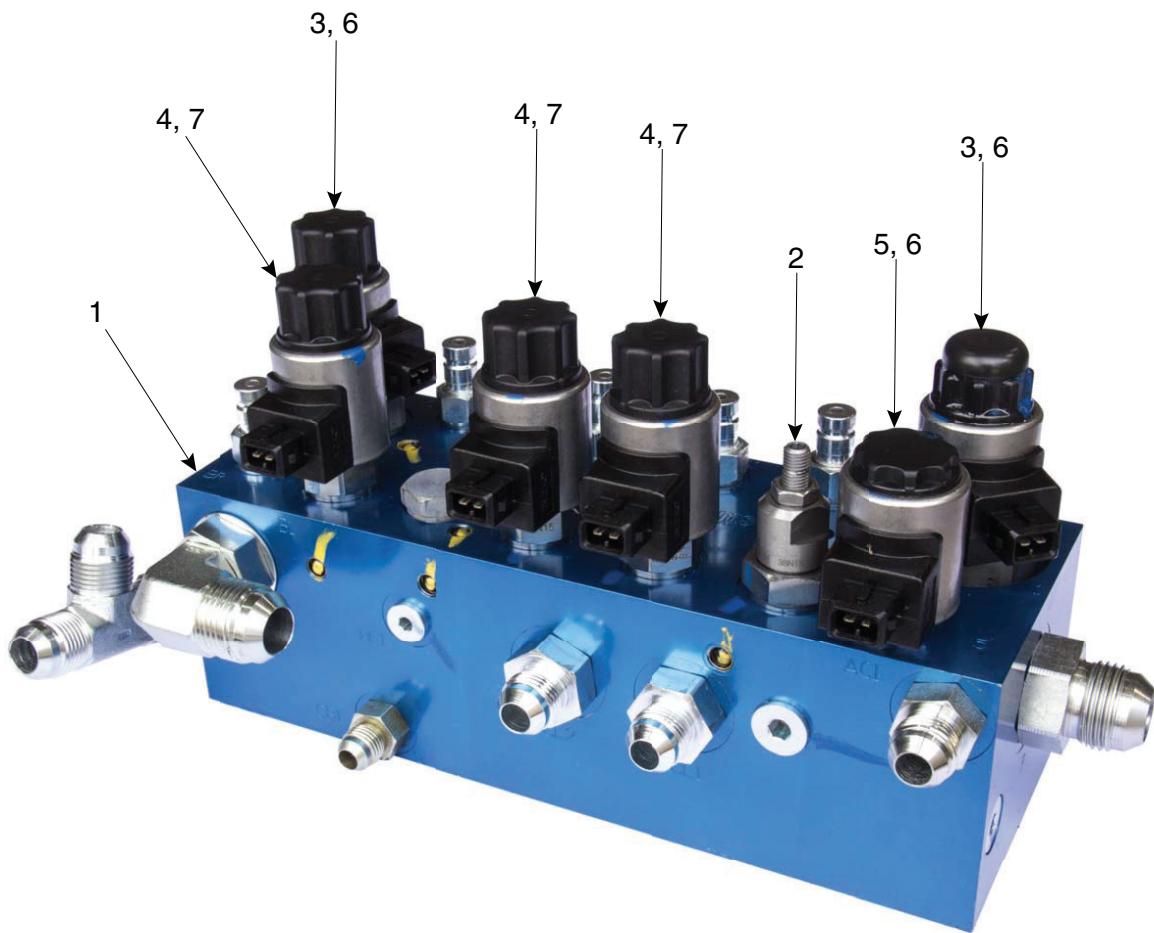
Hydraulic Group

Page 4 of 4



Valve Manifold Assembly

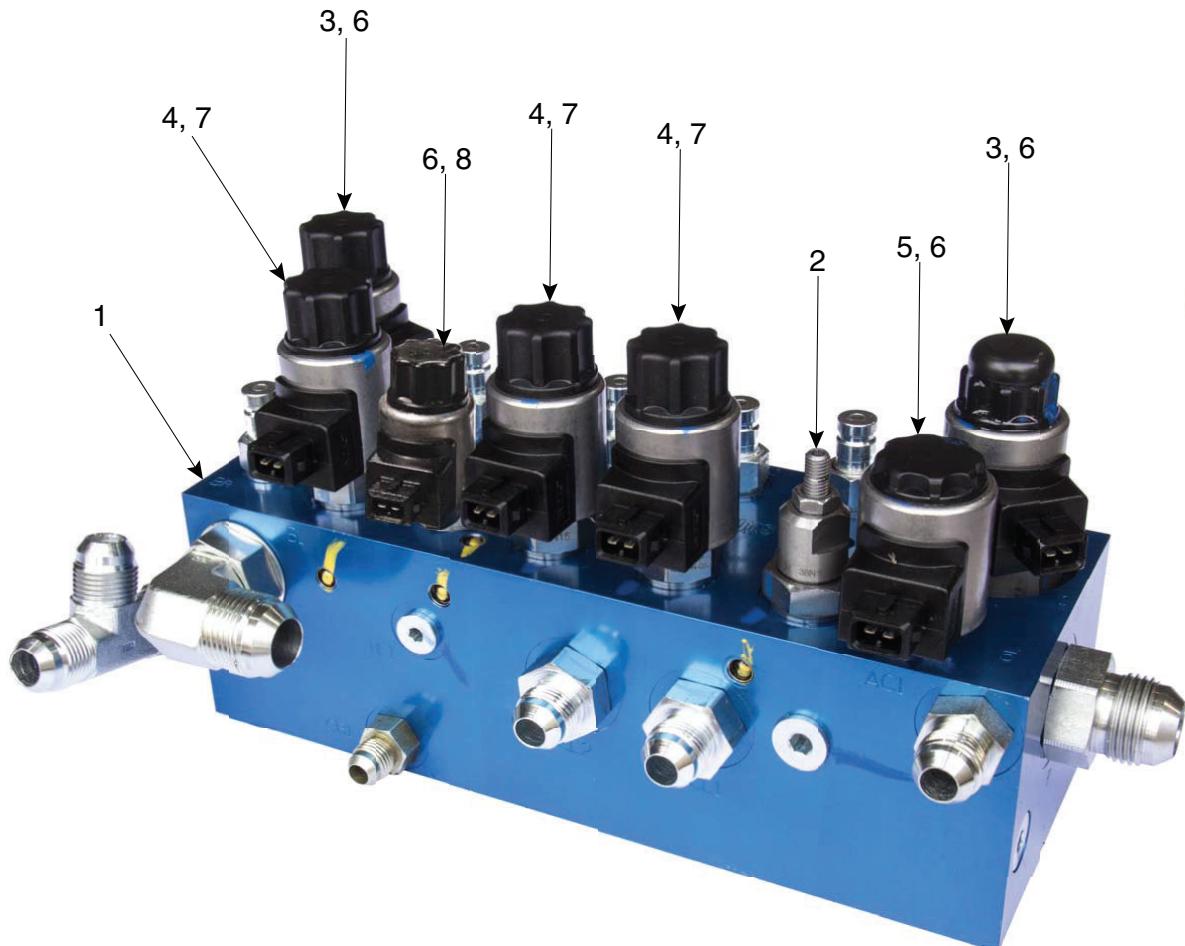
Used on winches without Freespool (AW6GE6N****)



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

Valve Manifold Assembly

Used on winches with Freespool (AW6GE6F****)



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

Joystick Installation
AW6GEC712* (CAT D6 BUILD 20A)**
 Page 1 of 2

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
2.1	2317603	1	Controls Mount	3 *a*b	2317565	1	Joystick, E-Controls, W FS
2.2.2	Y25G-(1024)16	4	. Capscrew	2317612	1	. Decal, Faceplate Top	
2.2.3	Y35E-#10	4	. Washer	2317613	1	. Decal, Faceplate Bottom	
2.2.4	224191	4	. Nut, Esna	2317117	1	. Ferrite	
2.3	2307919W	1	Guard, Cable	3 *c*d	2317591	1	Joystick, E-Controls, W/O FS
2.4	*e 398817W	2	Screw, Flange	2317614	1	. Decal, Faceplate Top	
2.6	2317617	1	Wire Harness, External	2317613	1	. Decal, Faceplate Bottom	
2.7	2317602	1	Wire Harness, Extension	2317117	1	. Ferrite	
2.8	2315030	3	Capscrew	4 *a	2317563	1	Decal, W FS
2.9	296417W	3	Washer	4 *b	2317589	1	Decal, W FS Unbranded
				4 *c	2317564	1	Decal, W/O FS
				4 *d	2317590	1	Decal, W/O FS Unbranded

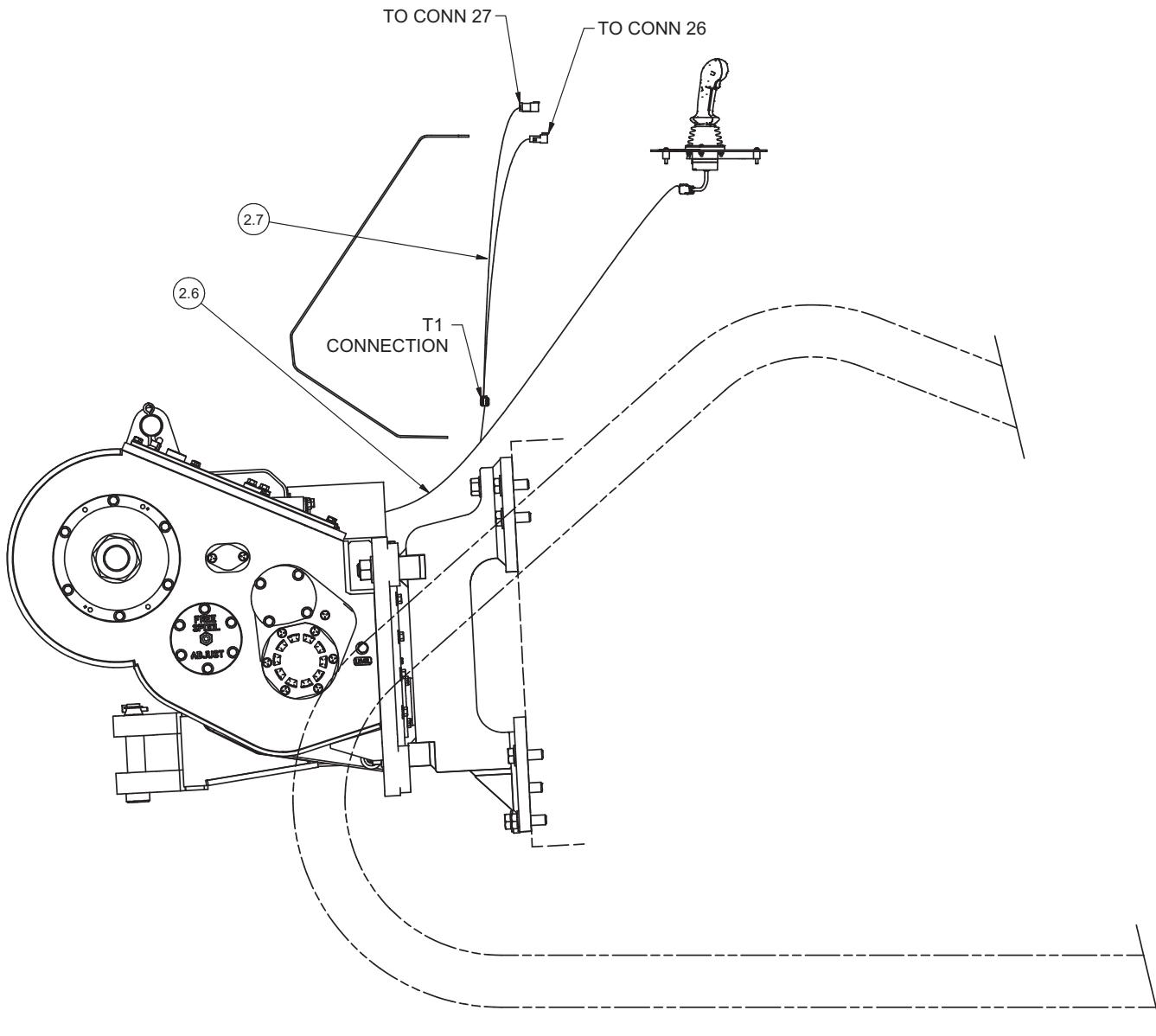
*a Used on AW6GE*FC712

*b Used on AW6GE*FC712N

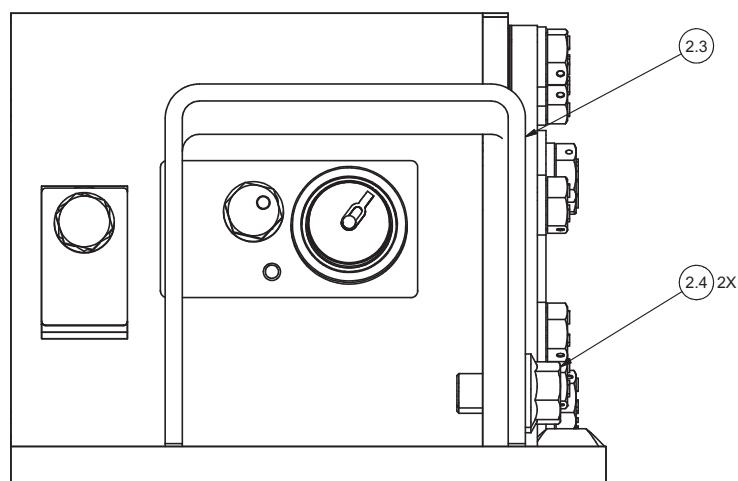
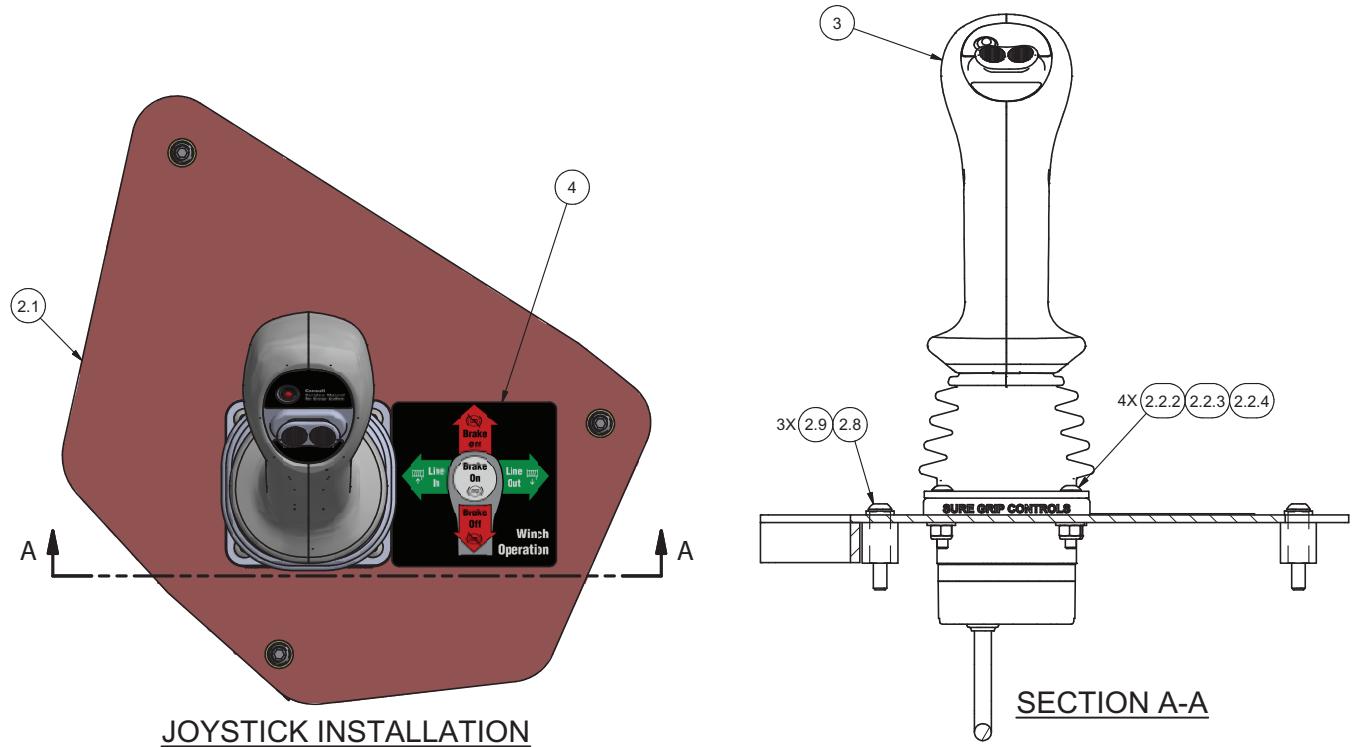
*c Used on AW6GE*NC712

*d Used on AW6GE*NC712N

*e Use Threadlocker 318702W



Joystick Installation
AW6GEC712* (CAT D6 BUILD 20A)**
 Page 2 of 2

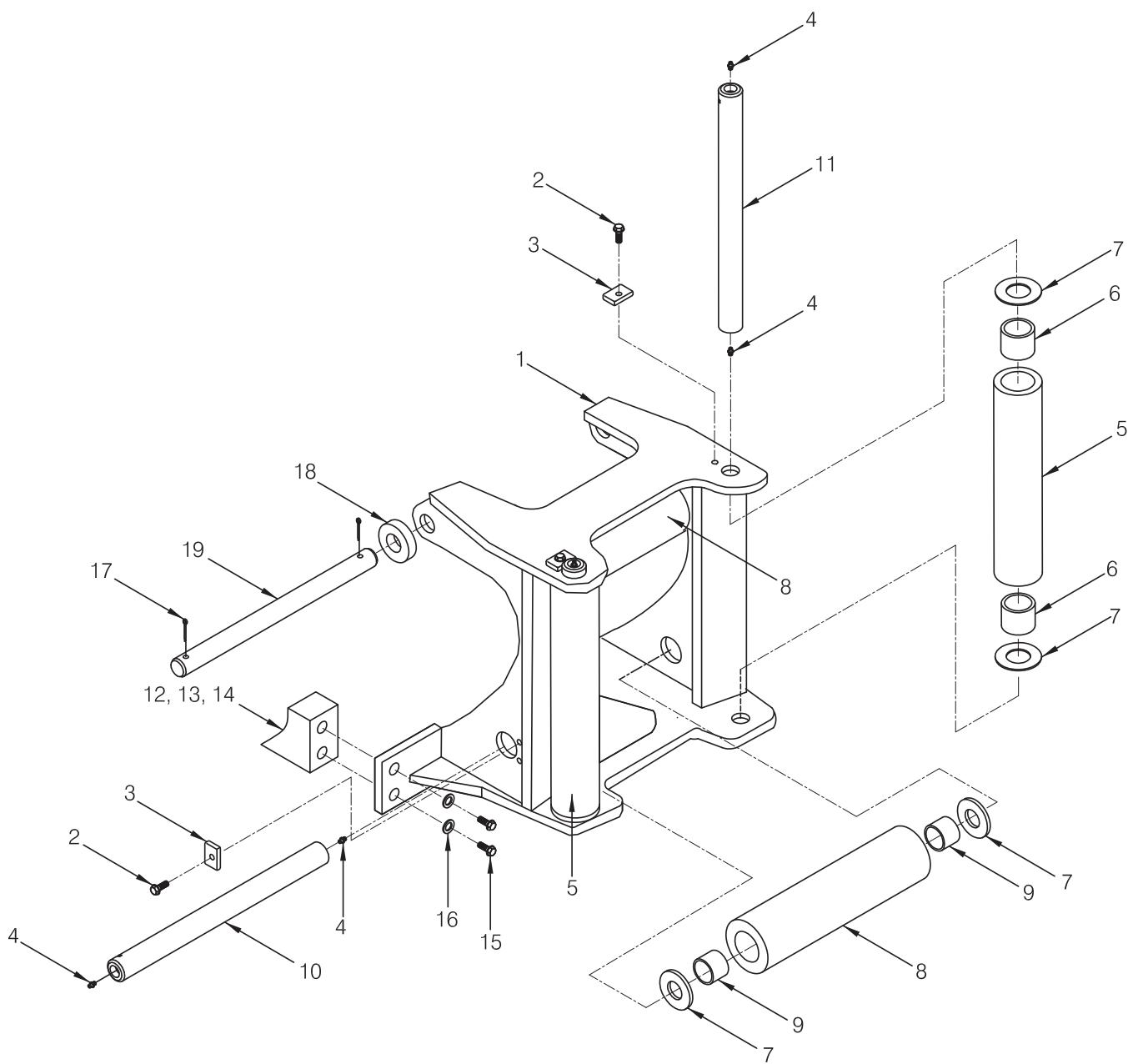


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Section 4

Optional Equipment

Fairlead	38
Arch	39
Extended Drawbar	40
Wire Rope Assemblies.....	41

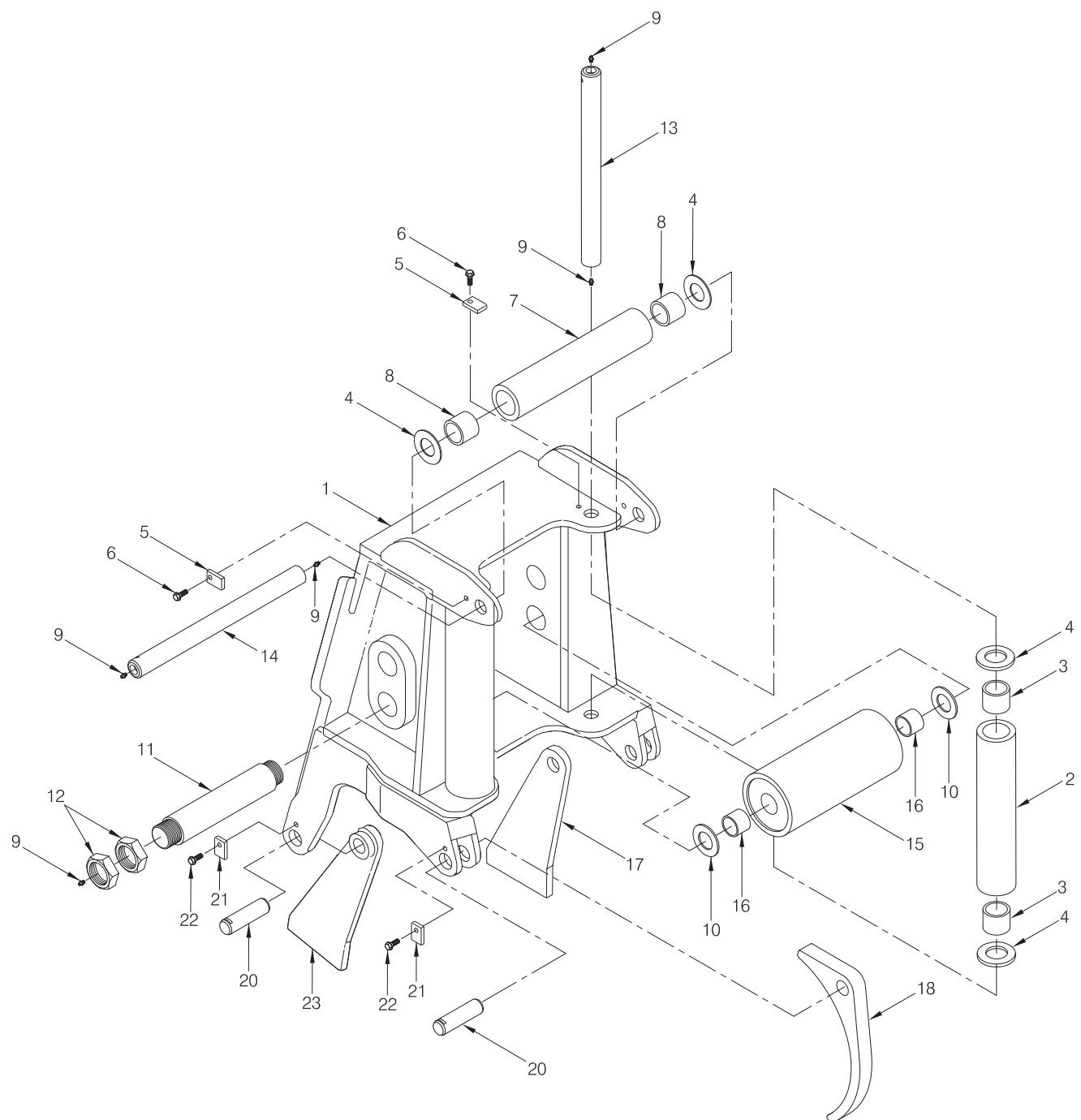
Fairlead

A - 3-Roller Fairlead

B - 4-Roller Fairlead

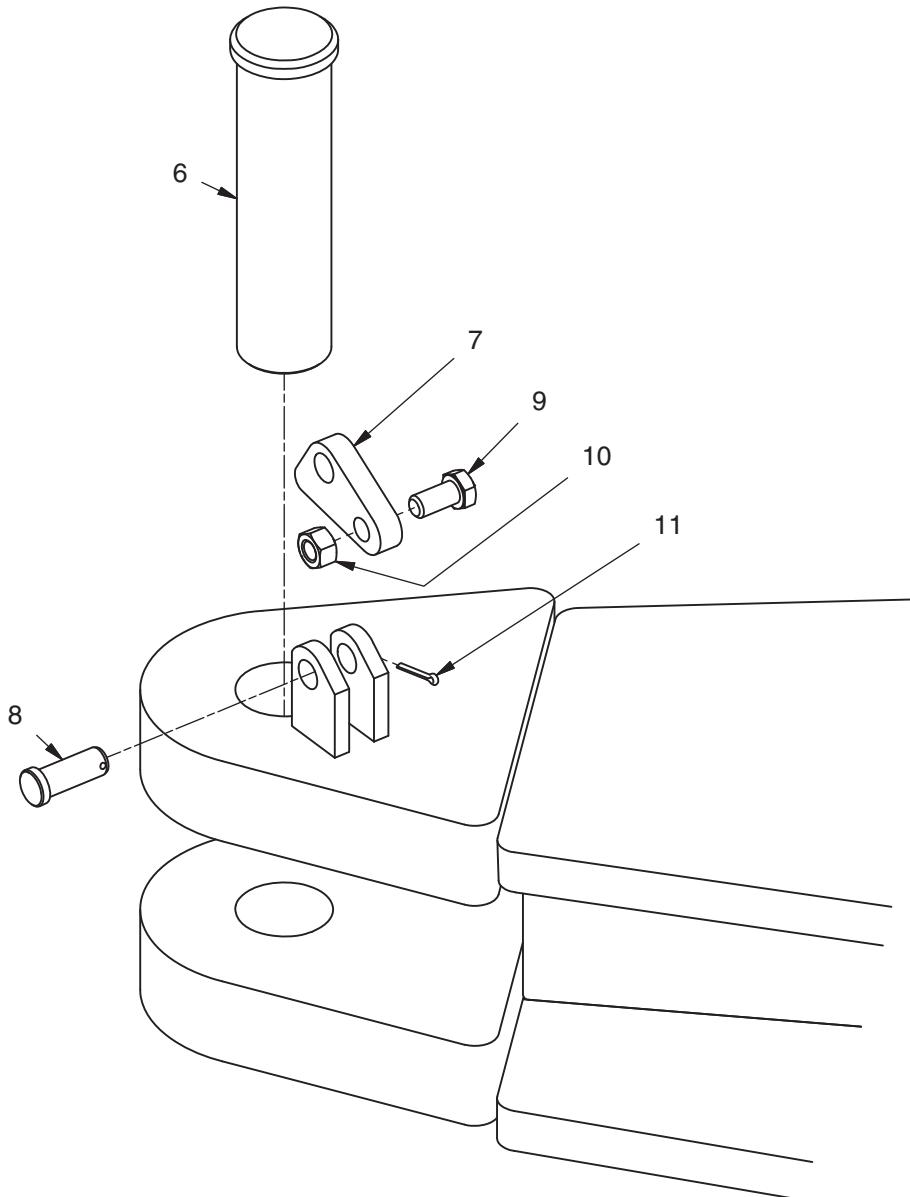
Item	Part No.	Qty A	Qty B	Description	Item	Part No.	Qty A	Qty B	Description
	2301731W	1	--	Assembly, Fairlead - 3-Roller					. Shaft, Horizontal
	2301732W	--	1	Assembly, Fairlead - 4-Roller					. Shaft, Vertical
1	2301718W	1	1	. Frame	10	2301722W	1	2	
2	398817W	3	4	. Screw, Flange	11	2301721W	2	2	
3	2301706W	3	4	. Keeper	12	143292W	1	1	Bracket, RH
4	16001W	6	8	. Fitting, Lube	13	226374W	1	1	Bracket, LH
5	2301726W	2	2	. Roller	14	93878W	AR	AR	Shim .134
6	2570W	2	2	. . Bushing	15	18669W	4	4	Capscrew
7	2314097	6	8	. Washer	16	15166W	4	4	Washer
8	2301727W	1	2	. Roller	17	15272W	2	2	Pin, Cotter
9	2570W	2	2	. . Bushing	18	173607W	2	2	Spacer
					19	196280W	1	1	Bar, Tie

Arch



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
Assembly, Arch							
1	2301749W	1	. Arch	12	221336W	4	. Nut
2	2301907W	2	. Roller	13	2301920W	2	. Shaft
3	35135W	2	. . Bushing	14	2301919W	1	. Shaft
4	331767W	6	. . Washer	15	2301925W	1	. Roller
5	2301706W	3	. Keeper	16	2817W	2	. . Bushing
6	398817W	3	. Flange, Screw	17	328740W	1	Ear, RH
7	2301910W	1	. Roller	18	2306380W	2	Lug, Wrapped
8	35135W	2	. . Bushing	20	2301924W	4	Pin
9	16001W	8	. Fitting, Grease	21	2301706W	4	Keeper
10	2821W	2	. . Washer	22	398817W	4	Screw, Flange
11	2302120W	2	. Shaft	23	328744W	1	Ear, LH

Extended Drawbar



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
6	2310748	1	Pin - Drawbar	9	16829W	1	Capscrew
7	145499W	1	Latch, Drawbar Pin	10	15058W	1	Nut
8	159W	1	Pin	11	15223W	1	Cotter Pin

Wire Rope Assemblies

Wire Rope Drum End



Light Ferrule

Wire Rope Loose End Options



Tail Chain & Hook (TC)



Wedge Socket (WS)

Part Number	Wire Rope Diameter	Wire Rope Type	Loose End Type	Loose End Rating (lbs)	Length (ft)	Weight (lbs)	Drum Fill	Wire Rope Breaking Strength (lbs)
WR6-263L	3/4"	EIPS	TC	34,200	263	294	2/3	58,800
WR6-399L					399	435	Full	
YS6-263LWS		EEIPS	WS	51,840	263	294	2/3	64,800
YS6-399LWS					399	435	Full	
WR7-189L	7/8"	EIPS	TC	34,200	189	289	2/3	79,600
WR7-287L					287	427	Full	
YS7-189LWS		EEIPS	WS	70,800	189	289	2/3	87,600
YS7-287LWS					287	427	Full	
WR8-147L	1"	EIPS	TC	47,700	147	295	2/3	103,400
WR8-223L					223	435	Full	
YS8-147LWS		EEIPS	WS	91,040	147	295	2/3	113,800
YS8-223LWS					223	435	Full	

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Section 5

Recommended Service Kits

Recommended Winch Service Intervals	44
Recommended Service Kits	45
Filter Kit	46
Gasket Kit	47
Clutch Shaft Kit	48 thru 49
Brake Assembly Kit	50
Brake, Clutch, and Idler Shaft Bearing Kit	52 thru 53
Drum & Intermediate Shaft Bearing and Seal Kit.....	54 thru 55
Miscellaneous Parts.....	56
Wire Rope Assemblies	56

Recommended Winch Service Intervals

Allied Systems Company is pleased to announce an additional tool to keep your customer's winch serviced and functioning properly. Following this recommended service schedule will help keep tractor winch downtime to a minimum, optimize winch operation, and extend the life of your investment. See Table 1 on this page for recommended service intervals, and Table 2 on the next page for recommended service kits.

PTO Winch Maintenance					
Recommended Winch Service Intervals					
Hours or **	Months **	Filter ***	Winch Gear Oil	Brake & Clutch	Major Overhaul
First 250	1	Change			
Every 500	3	Change			
Every 1,000	6		Change		
Every 5,000				* Inspect	
Every 10,000					* Evaluate
Lube rollers and check oil level and filter light weekly.					
* Evaluate = Service based on average winch use; - if used more than once a day, perform overhaul. - if used less than once a day, remove covers and check to determine need.					
* Inspect = Disassemble and inspect for wear.					
** Service winch using the tractor's hour meter or the length of time the winch is mounted to the tractor, whichever occurs first.					
*** Follow tractor schedule if using tractor filter.					
IMPORTANT - For best Load Control Use only the following oils:					
Caterpillar	-Multipurpose Tractor Oil (MTO)				
John Deere	-Hy-Gard				
ExxonMobil	-Mobil Fluid 424 (Factory Fill)				
Chevron	-1000 THF				
	Consult service/operating manual for low temperature oils and other details. Use of non-approved oil may void warranty.				
 2311481 Rev C					

Table 1 Recommended Winch Service Intervals

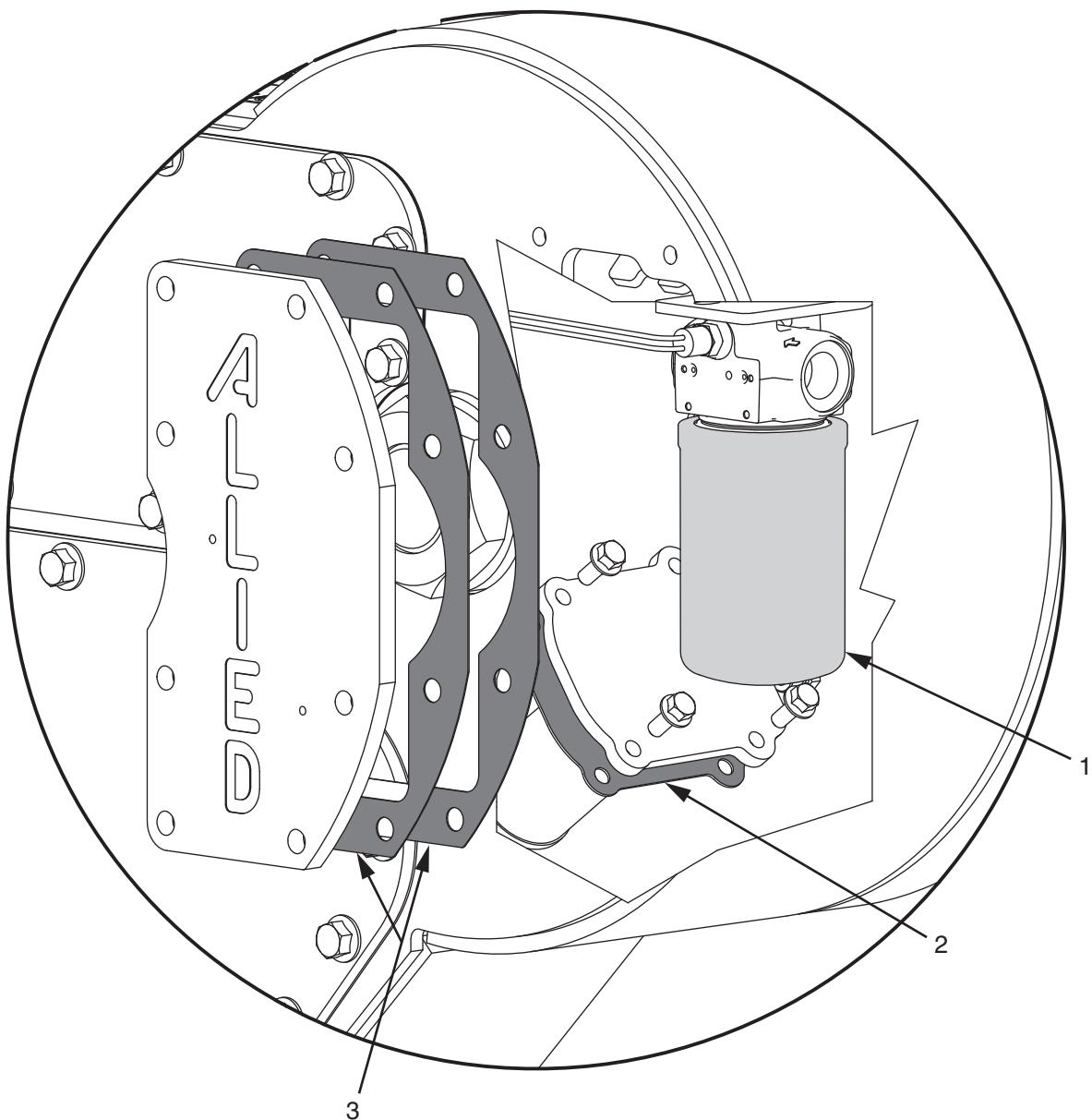
Recommended Service Kits

SERVICE KITS FOR W6G WINCHES		
Service Description	Kit Description	Kit Part No.
Filter Change (First 250, then every 500 Hours)	Filter Kit	2311168
Complete Oil Change (Every 1,000 hours)	-N/A-	Check our Website for Current Operator's and Service Manuals for Appropriate Oils
Clutch and Brake Overhaul (Every 5,000 hours)	Gasket Kit	2302729W
	Clutch Shaft Kit*	2311388
	Brake Assembly Kit	2311387
	Pump Assembly	2302963W
Major Overhaul (Every 10,000 hours)	Brake, Clutch, and Idler Shaft Bearing Kit	2311389
	Drum & Intermediate Shaft Bearing and Seal Kit	2311390
		2311392

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

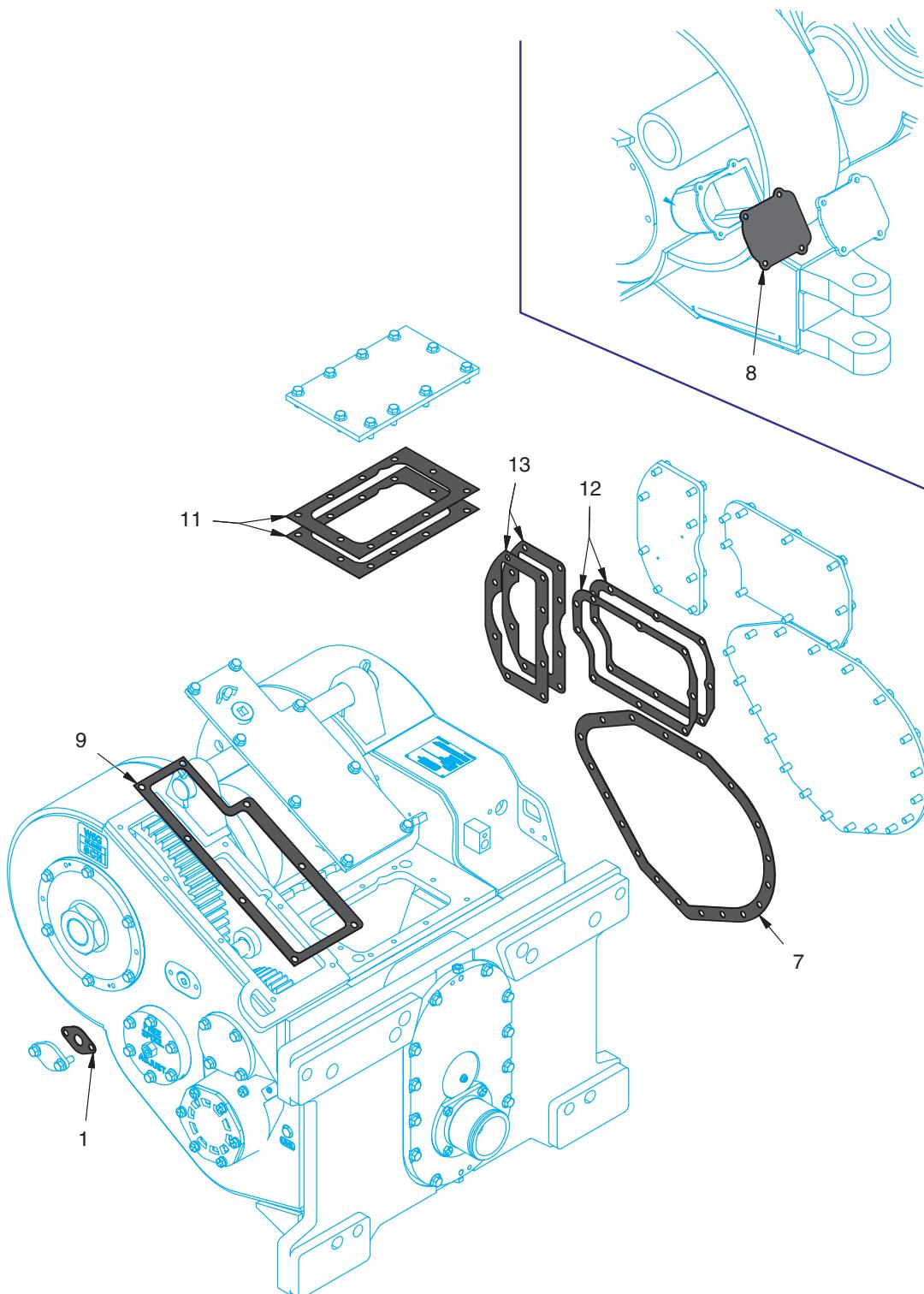
Table 2 Routine Maintenance Kits

Filter Kit: 2311168



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311168		Kit, Filter				
1	2304112W	1	. Element, Filter				
2	2300935W	1	. Gasket				
3	2314005	2	. Gasket, Filter Cover				

Gasket Kit: 2302729W

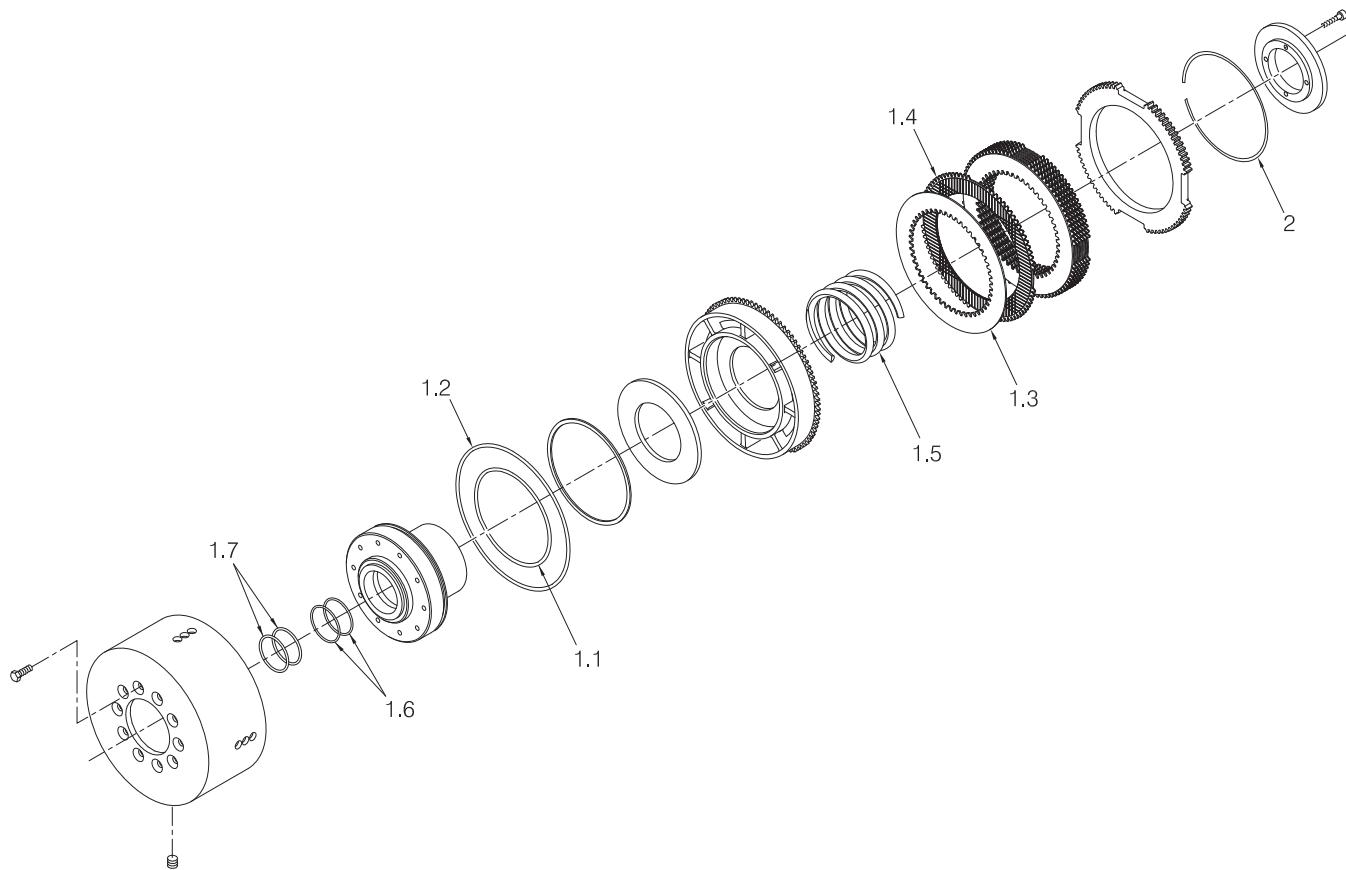


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2302729W		Kit, Gasket				
1	151646W	2	. Gasket	9	2300693W	1	. Gasket
2	* 185990W	1	. Gasket	10	* 2301631W	1	. Gasket
3	* 196022W	1	. Gasket	11	2314007	2	. Gasket
4	* 303946W	2	. Gasket	12	2314008	2	. Gasket, Valve Cover
5	* 2300689W	1	. Gasket	13	2314005	2	. Gasket, Filter Cover
7	2300690W	1	. Gasket - Cover, Brake				
8	2300935W	1	. Gasket				
							*
							Not Used

Clutch Shaft Kit

Page 1 of 2

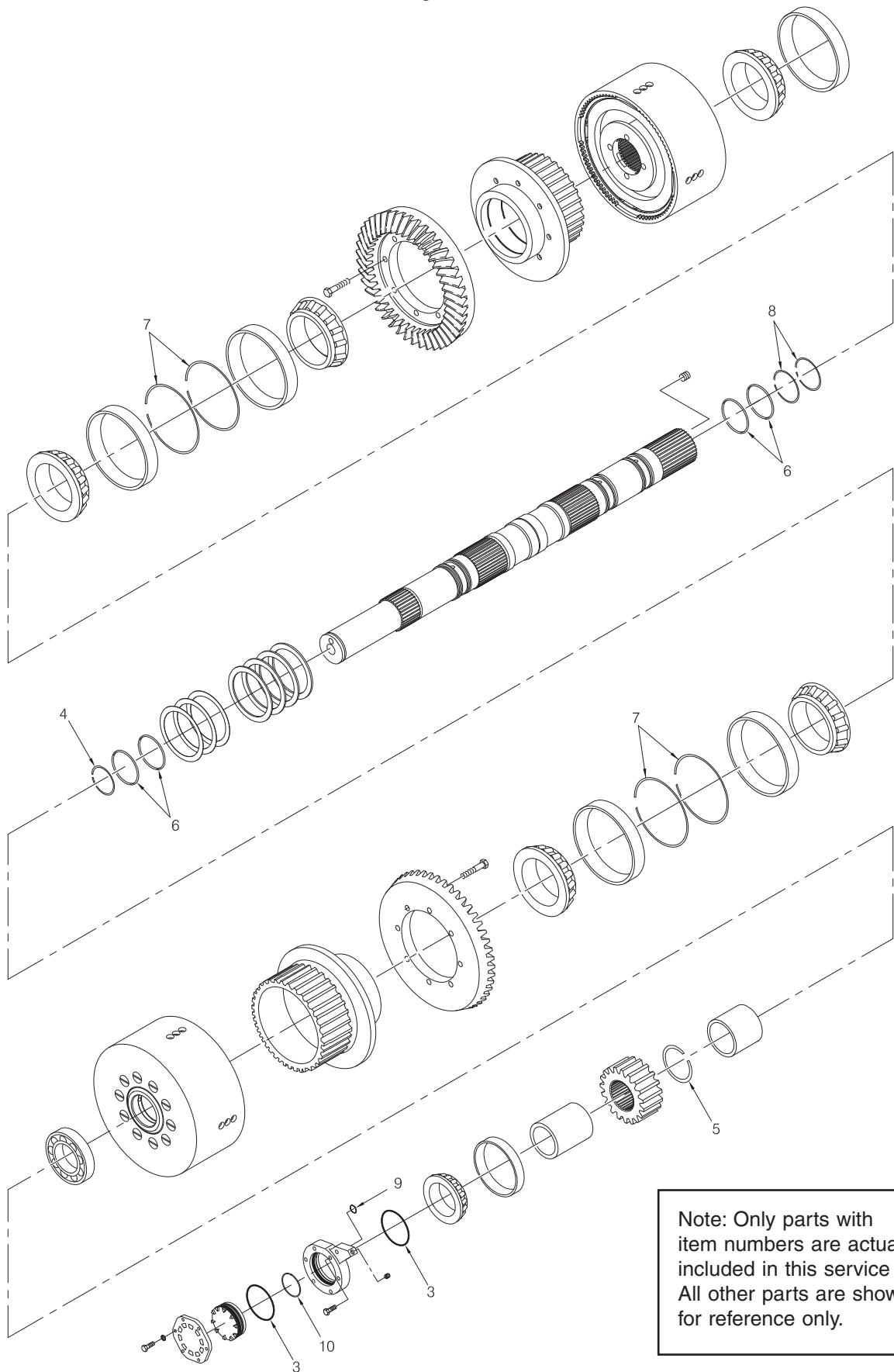
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311388		Kit, Clutch Shaft Rebuild				
1	L2302774W	2	. Service Kit - W6G Clutch	4	219070W	1	. Ring, Seal
1.1	79972W	1	. . O-Ring	5	58924W	1	. Snap Ring
1.2	89777W	1	. . O-Ring	6	39442W	4	. O-Ring
1.3	261542W	7	. . Plate	7	184818W	4	. Snap Ring
1.4	328715W	7	. . Disc - Friction	8	2300643W	2	. Seal Ring
1.5	2300619W	1	. . Spring	9	63105W	1	. O-Ring
1.6	39442W	2	. . O-Ring	10	203533	1	. O-Ring
1.7	141913W	2	. . O-Ring				
2	2300670W	2	. Snap Ring				
3	55289W	2	. O-Ring				



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

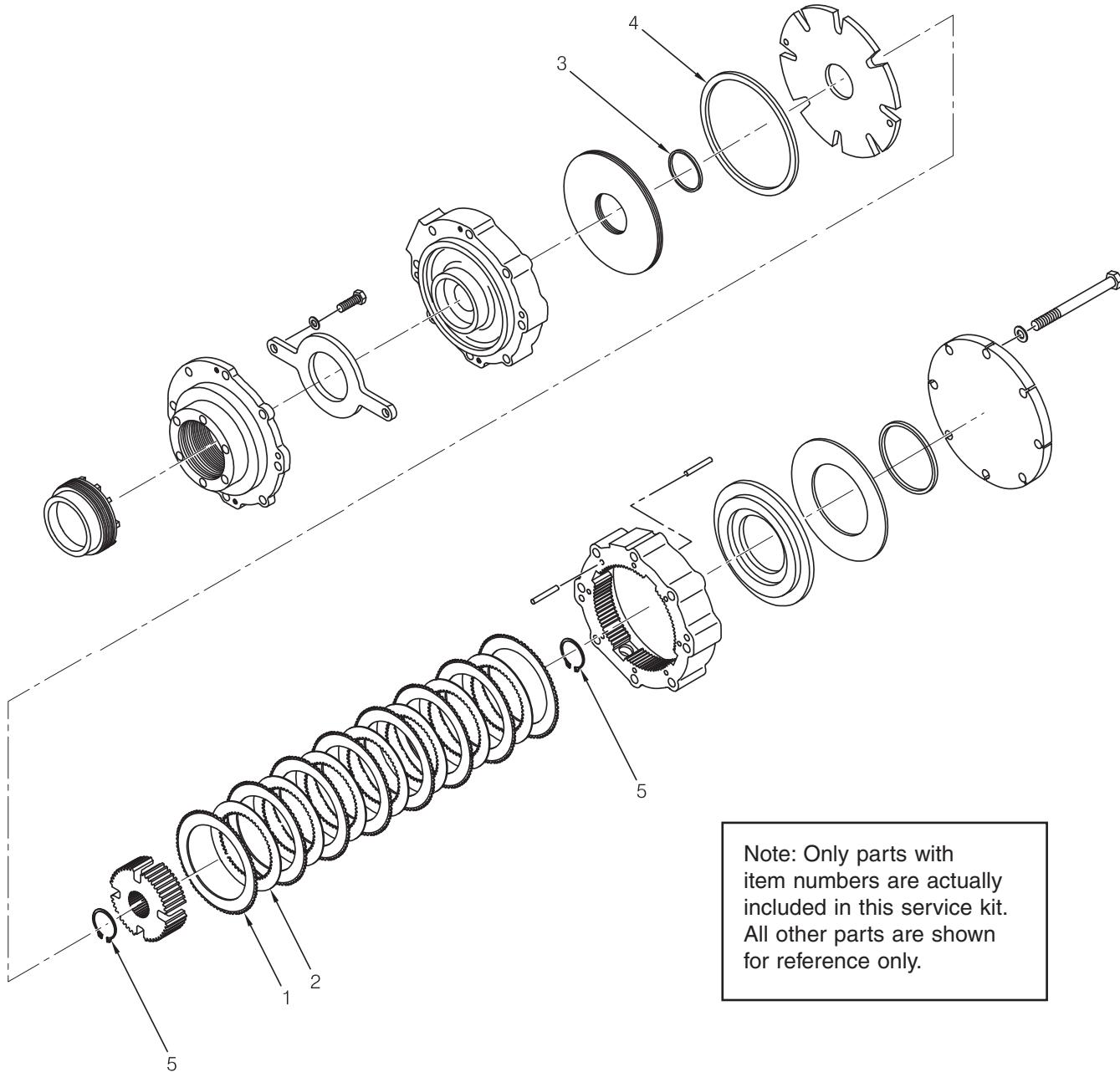
Clutch Shaft Kit

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.

Brake Assembly Kit: 2311387



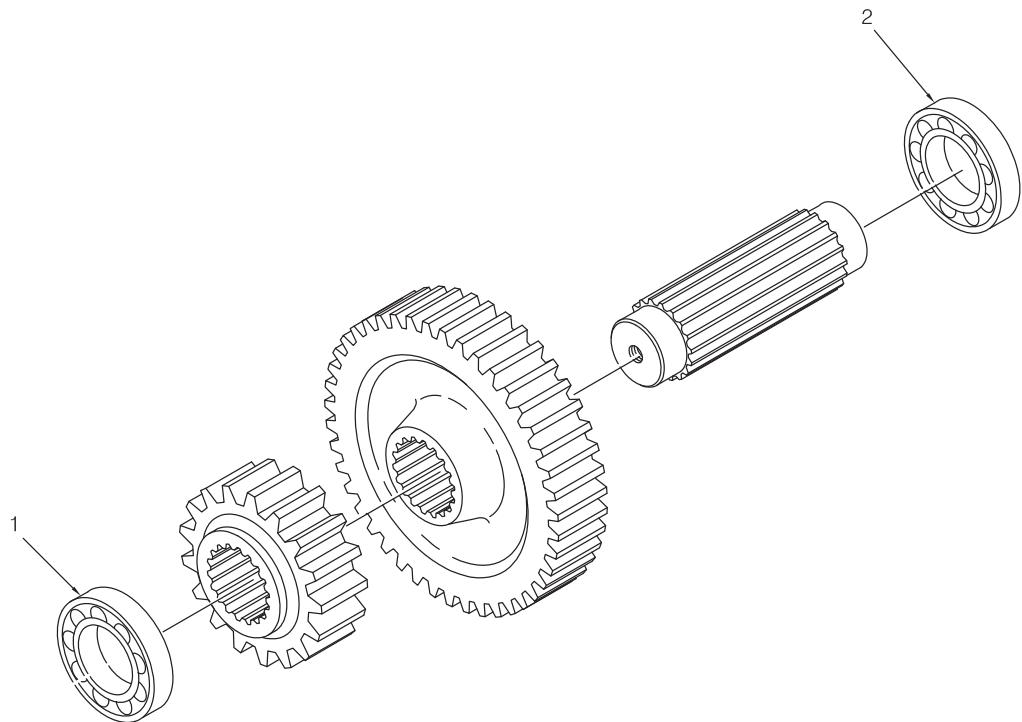
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311387		Kit, Brake				
1	328715W	8	. Disc - Friction	4	133927W	1	. Ring
2	261542W	7	. Plate	5	12963W	2	. Snap Ring
3	79979W	1	. O-Ring				

Intentionally Blank

Brake, Clutch, and Idler Shaft Bearing Kit: 2311389

Page 1 of 2

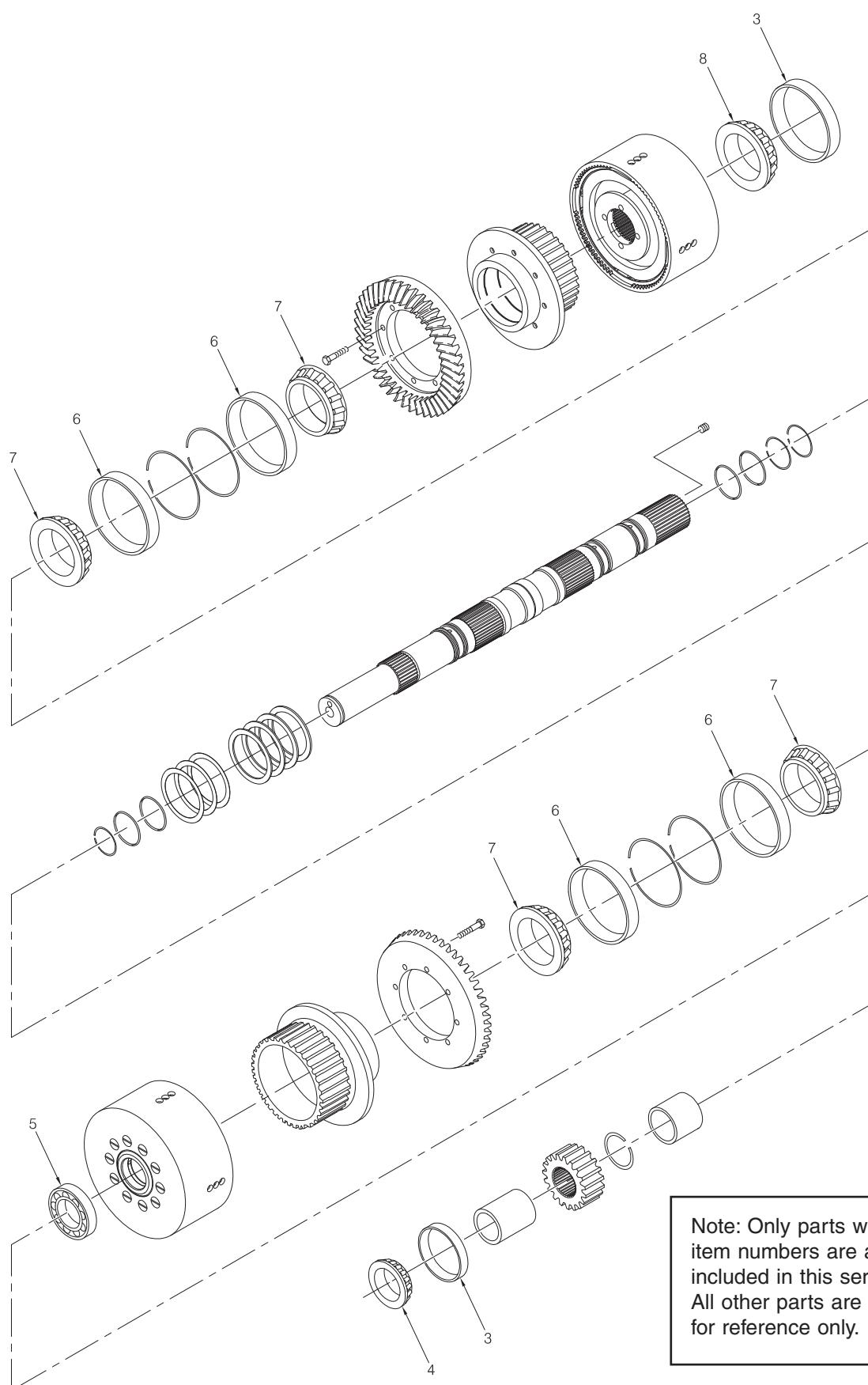
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311389		Kit, Brake, Clutch & Idler Shaft				
1	43310W	1	. Bearing - Ball	5	43211W	1	. Bearing - Ball
2	43210W	1	. Bearing - Ball	6	2300671W	4	. Bearing, Cup
3	2300668W	2	. Bearing Cup	7	2300672W	4	. Bearing Cone
4	2300669W	1	. Bearing Cone	8	2300673W	1	. Bearing Cone



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

Brake, Clutch, and Idler Shaft Bearing Kit: 2311389

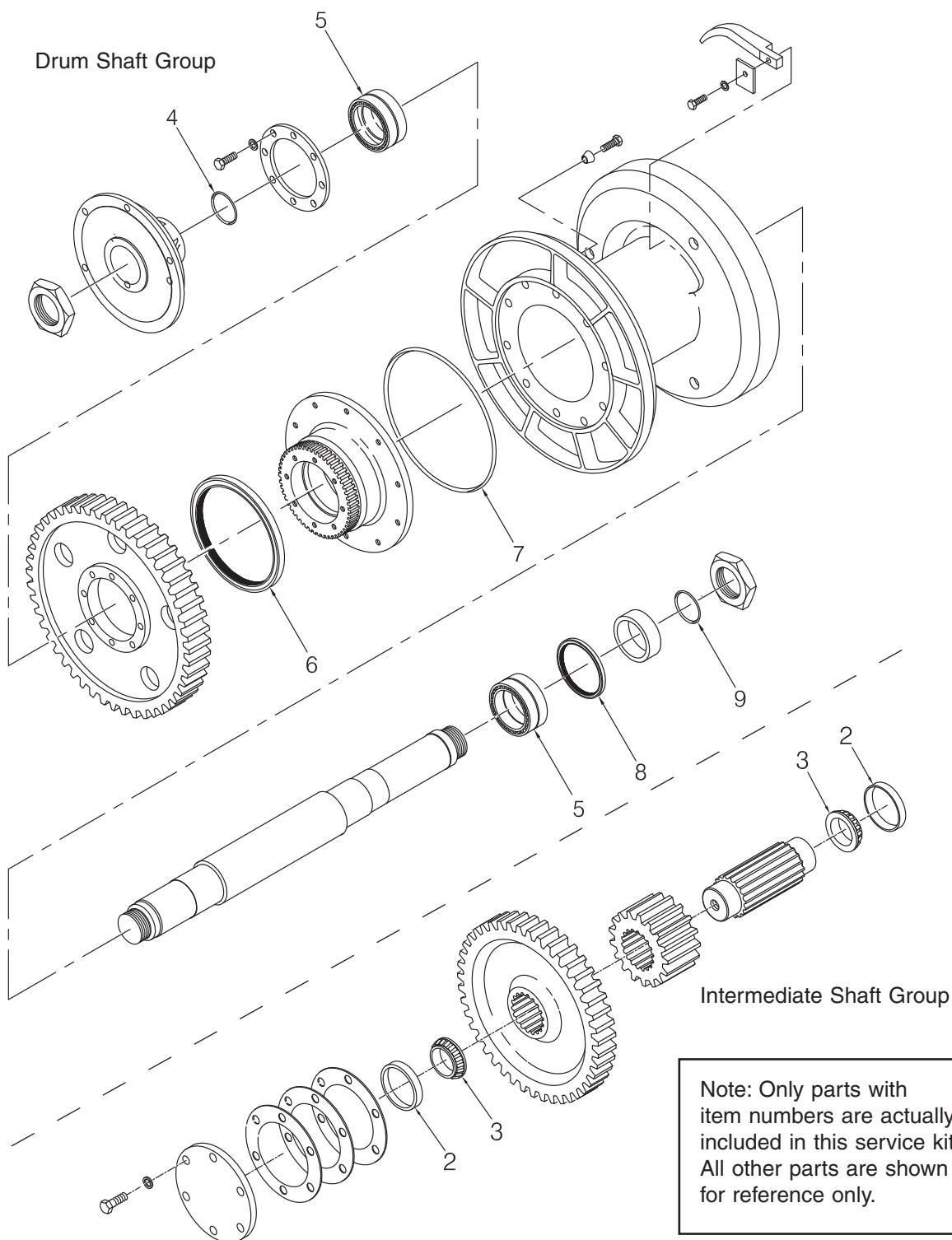
Page 2 of 2



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

Drum & Intermediate Shaft Bearing & Seal Kit: 2311390

Winches without Freespool

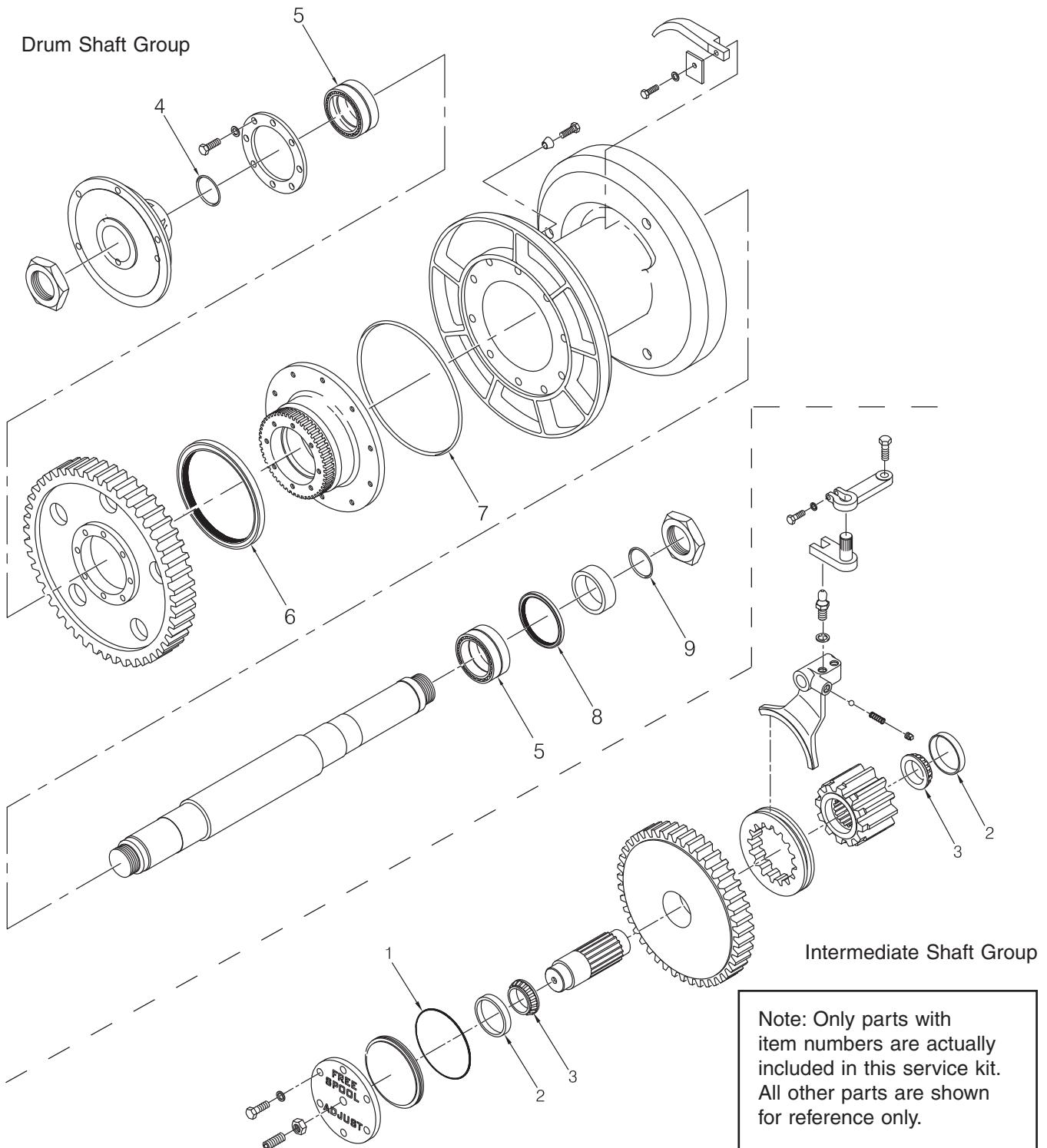


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311390		Kit, Drum Rebuild				
1	* 159940W	1	. O-Ring	6	141671W	1	. Seal, Oil
2	30059W	2	. Bearing Cup	7	133927W	1	. Ring
3	30080W	2	. Bearing Cone	8	44547W	1	. Seal, Oil
4	90263W	1	. O-Ring	9	15881W	1	. O-Ring
5	230406W	2	. Bearing Assembly				

* Not Used

Drum & Intermediate Shaft Bearing & Seal Kit: 2311392

Winches with Freespool



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
2311392 Kit, Drum Rebuild							
1	159940W	1	. O-Ring	6	141671W	1	. Seal, Oil
2	30059W	2	. Bearing Cup	7	133927W	1	. Ring
3	2302311W	2	. Bearing Cone	8	44547W	1	. Seal, Oil
4	90263W	1	. O-Ring	9	15881W	1	. O-Ring
5	230406W	2	. Bearing Assembly				

Miscellaneous Parts

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

Allied P/N	Description	Quantity	Order Quantity
2302963W	Assembly, Gear Pump	1	
2315807	Valve, Relief	1	
2310260	. Kit, Seal	1	
2310252	Valve, Cartridge	2	
2310258	. Kit, Seal	1	
2315808	Valve, Proportional	3	
254396	. Kit, Seal	1	
2310253	Valve, Cartridge	1	
254400	. Kit, Seal	1	
2311558	Coil, Valve - 24VDC	3	
2310259	. Kit, Seal	1	
2315811	Coil, Proportional - 24VDC	3	
2307769W	Valve, Cartridge (Winches with Freespool Only)	1	
2504253	. Kit, Seal (Winches with Freespool Only)	1	
95959W	Pin, Drawbar	1	
2303221W	Pin, Retaining	1	

Wire Rope Assemblies

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

Allied P/N	Description	Length	Will Fill Drum To:	Order Quantity
WR6-263L	Wire Rope Assembly, 3/4", EIPS	263 ft	2/3 Capacity (Recommended)	
WR6-399L	Wire Rope Assembly, 3/4", EIPS	399 ft	Full Capacity	
YS6-263LWS	Wire Rope Assembly, 3/4", EEIPS	263 ft	2/3 Capacity (Recommended)	
YS6-399LWS	Wire Rope Assembly, 3/4", EEIPS	399 ft	Full Capacity	
WR7-189L	Wire Rope Assembly, 7/8", EIPS	189 ft	2/3 Capacity (Recommended)	
WR7-287L	Wire Rope Assembly, 7/8", EIPS	287 ft	Full Capacity	
YS7-189LWS	Wire Rope Assembly, 7/8", EEIPS	189 ft	2/3 Capacity (Recommended)	
YS7-287LWS	Wire Rope Assembly, 7/8", EEIPS	287 ft	Full Capacity	
WR8-147L	Wire Rope Assembly, 1", EIPS	147 ft	2/3 Capacity (Recommended)	
WR8-223L	Wire Rope Assembly, 1", EIPS	223 ft	Full Capacity	
YS8-147LWS	Wire Rope Assembly, 1", EEIPS	147 ft	2/3 Capacity (Recommended)	
YS8-223LWS	Wire Rope Assembly, 1", EEIPS	223 ft	Full Capacity	

Section 6

Numerical Index

24257 - 226374W	58
2300604W - 89777W	59
90263W - YS8-223LWS	60

Part No.	Page No.	Item	Part No.	Page No.	Item	Part No.	Page No.	Item	Part No.	Page No.	Item
24257	28	10	2314554	5	3.1	133927W	54	7	16909W	14	63
203533	16	38	2314735	6	1.15	133927W	55	7	16989W	28	70
203533	48	10	2314742	6	1.16	136516W	12	95	17224W	12	90
212380	23	226	2314824	3	3.24	137852W	6	1.6	172808W	24	14
224191	34	2.2.4	2314824	4	1.3	138811W	28	54	172810W	24	1
225851	3	1.9	2314824	5	2.6	141671W	24	13	17315W	28	7
225851	4	2.9	2315030	34	2.8	141671W	54	6	173607W	38	18
225851	5	3.9	2315717	28	60	141671W	55	6	175646W	24	2
225851	6	2.2	2315717	32		141674W	24	19	175647W	24	3
234271	6	1.9	2315807	32	2	141676W	24	26	175648W	24	4
234271	19	15	2315807	33	2	141913W	48	1.7	178402W	12	132
243057	6	1.20	2315807	56		143292W	38	12	178402W	14	62
254396	32		2315808	32	4	145499W	40	7	178403W	28	26
254396	33		2315808	33	4	14595W	2	185	181089W	12	97
254396	56		2315808	56		14694W	12	94	184818W	16	58
254400	32		2315811	32	7	149541W	22	121	184818W	48	7
254400	33		2315811	33	7	149542W	22	122	18515W	12	24
254400	56		2315811	56		149543W	22	123	18515W	14	24
588263	28	80	2315822	28	15	15058W	40	10	18515W	28	18
2310252	32	3	2315880	4	1.7	15134W	12	16	18526W	28	17
2310252	33	3	2315945	28	65	15134W	14	16	18588W	6	2.11
2310252	56		2315945	33		15134W	28	23	185990W	47	2
2310253	32	5	2315998	28	30	15135W	19	19	18669W	38	15
2310253	33	5	2316025	28	35	151589W	2	302	193912W	19	11
2310253	56		2316749	28	59	15158W	16	41	196022W	28	20
2310258	32		2317117	34		15158W	24	6	196022W	47	3
2310258	33		2317117	34		15158W	28	27	196280W	2	182
2310258	56		2317346	2	290	151646W	2	303	196280W	38	19
2310259	56		2317364	2	316	151646W	47	1	19929W	12	134
2310260	32		2317424	28		15166W	38	16	201776W	28	34
2310260	33		2317441	28	55	15223W	40	11	21420W	2	313
2310260	56		2317447	2	290	15272W	2	183	216590W	12	133
2310475	19	23	2317456	28	300	15272W	38	17	219070W	16	47
2310748	40	6	2317563	34	4	15319W	2	312	219070W	48	4
2310891	24	21	2317564	34	4	15347W	16	71	219172W	28	1
2311168	46		2317565	34	3	15483W	16	68	221336W	39	12
2311330	9	7	2317589	34	4	15862W	23	225	221563W	19	18
2311387	50		2317590	34	4	15881W	24	24	221577W	24	11
2311388	48		2317591	34	3	15881W	54	9	221690W	3	3.20
2311389	52		2317602	34	2.7	15881W	55	9	221690W	5	2.2
2311390	54		2317603	34	2.1	15887W	3	2.4	221701W	6	2.5
2311392	55		2317612	34		15887W	4	1.1	221711W	2	318
2311481	9	3	2317613	34		15887W	5	1.3	221717W	23	89
2311558	32	6	2317613	34		15887W	6	1.4	221720W	6	2.6
2311558	33	6	2317614	34		15893W	18		221721W	3	1.3
2311558	56		2317615	28	14	159940W	23	83	221721W	3	2.5
2311807	28	25	2317616	28	38	159940W	54	1	221721W	4	2.3
2311894	23	221	2317617	34	2.6	159940W	55	1	221721W	5	1.2
2312259	28	61	2317622	28	67	159W	40	8	221721W	5	3.3
2312269	23	87	2317624	28	62	16001W	38	4	221724W	6	2.3
2312280	23	86	2504253	33		16001W	39	9	221725W	3	1.8
2312581	28	11	2504253	56		16338W	18	16	221725W	4	2.8
2312868	28		10389W	2	184	165035W	12	10	221725W	5	3.8
2314005	2	308	110174W	28	58	165035W	14	10	221771W	2	317
2314005	46	3	113586W	18		16543W	28	56	221771W	6	2.10
2314005	47	13	129563W	28	37	16561W	12	5	221777W	6	1.14
2314007	2	172	129563W	28	41	16561W	14	5	221780W	3	1.6
2314007	47	11	129563W	28	66	16565W	28	263	221780W	3	2.1
2314008	2	307	12963W	19	17	16568W	28	13	221780W	3	3.25
2314008	47	12	12963W	50	5	16570W	28	32	221780W	4	2.6
2314097	38	7	1300780W	28	4	16597W	12	96	221780W	5	1.1
2314235	6	2.8	1300780W	28	52	16602W	9	6	221780W	5	2.1
2314237	6	2.9	1308451W	4	1.4	16602W	28	24	221780W	5	3.6
2314302	6	2.7	1321665W	9	2	16805W	12	17	221780W	6	1.7
2314553	3	1.2	133469W	28	16	16805W	14	17	222402W	28	31
2314553	4	2.2	133926W	19	2	16828W	28	22	222443W	28	33
2314553	5	3.2	133927W	19	3	16829W	24	17	222734W	12	173
2314554	3	1.1	133927W	24	22	16829W	40	9	222734W	14	173
2314554	4	2.1	133927W	50	4	16830W	6	2.14	226374W	38	13

Part No.	Page No.	Item									
2300604W	18	4	2301144W	5	3.4	2305119W	2	306	283433W	23	200
2300606W	16	55	2301522W	19	14	2305132W	28		292660W	4	1.8
2300608W	18	15	2301523W	19	9	2305405W	19	3	293710W	6	1.13
2300610W	16	59	2301631W	47	10	2305406W	18		295752W	18	2
2300612W	16	48	2301689W	2	171	2305406W	19		296417W	34	2.9
2300613W	16	49	2301706W	38	3	2305415W	23	81	296422W	6	1.18
2300614W	20	33	2301706W	39	5	2305497W	12	131	296435W	4	1.6
2300616W	20	34	2301706W	39	21	2305498W	12	135	30059W	22	129
2300618W	18	12	2301718W	38	1	2305516W	6	1.1	30059W	23	91
2300619W	18	14	2301721W	38	11	2305541W	6	1.2	30059W	54	2
2300619W	48	1.5	2301722W	38	10	2305560W	28	261	30059W	55	2
2300627W	19	16	2301726W	38	5	2305588W	6	1.12	30080W	22	128
2300629W	19	7	2301727W	38	8	2305607W	18	5	30080W	54	3
2300630W	19	13	2301731W	38		2305608W	18	7	303946W	28	29
2300631W	19	12	2301732W	38		2305609W	18	6	303946W	47	4
2300632W	24	7	2301748W	39		2305617W	6	1.10	307788W	16	39
2300634W	16	51	2301749W	39	1	2305619W	6	2.1	316823W	15	5
2300643W	16	64	2301783W	24	16	2305620W	6	1.11	318702W	2	
2300643W	48	8	2301907W	39	2	2305628W	12	7	318702W	6	
2300645W	12	136	2301910W	39	7	2305628W	14	7	318702W	18	
2300645W	14	66	2301919W	39	14	2305715W	6	2.12	318702W	34	
2300646W	12	130	2301920W	39	13	2305956W	23	85	328715W	18	11
2300646W	14	60	2301924W	39	20	2305987W	28	19	328715W	19	6
2300648W	14	61	2301925W	39	15	2305993W	19	1	328715W	48	1.4
230064W	3		2302109W	28	50	2305994W	16	37	328715W	50	1
2300668W	16	45	2302120W	39	11	2306200W	12	3	328740W	39	17
2300668W	52	3	2302311W	23	90	2306200W	14	3	328744W	39	23
2300669W	16	46	2302311W	55	3	2306202W	12	20	331767W	39	4
2300669W	52	4	2302479W	16	36	2306202W	14	20	35135W	39	3
2300670W	18	13	2302484W	19	21	2306203W	12	21	35135W	39	8
2300670W	48	2	2302490W	19	20	2306203W	14	21	39371W	12	6
2300671W	16	56	2302498W	16	40	2306349W	12	4	39371W	14	6
2300671W	52	6	2302624W	23	82	2306349W	14	4	39442W	16	53
2300672W	16	57	2302625W	23	84	2306350W	12	23	39442W	48	1.6
2300672W	52	7	2302729W	47		2306350W	14	23	39442W	48	6
2300673W	16	63	2302774W	18		2306380W	39	18	398817W	34	2.4
2300673W	52	8	2302937W	15		2306398W	16	72	398817W	38	2
2300687W	2	300	2302963W	12	98	2306399W	16	73	398817W	39	6
2300689W	47	5	2302963W	14	65	2306400W	16	74	398817W	39	22
2300690W	2	301	2302963W	15		2306423W	12	11	41210W	12	1
2300690W	47	7	2302963W	56		2306423W	14	11	41210W	14	1
2300693W	47	9	2302985W	28	12	2306561W	12	12	43210W	20	31
2300707W	16	54	2303221W	2	181	2306561W	14	12	43210W	52	2
2300707W	18		2303221W	56		2306736W	28	57	43211W	16	52
2300709W	3	3.21	2303739W	28	9	2306983W	19	22	43211W	52	5
2300709W	4	1.2	2303848W	2	305	2307029W	16	61	43310W	20	30
2300709W	5	2.5	2303848W	20	69	2307118W	12	41	43310W	52	1
2300721W	2	220	2303848W	22	305	2307118W	14	41	44308W	12	2
2300746W	20	35	2303848W	24	5	2307599W	12	13	44308W	14	2
2300749W	12	40	2303898W	12	309	2307599W	14	13	44547W	24	12
2300749W	14	40	2303898W	14	309	2307769W	33	8	44547W	54	8
2300758W	28	6	2303902W	2	304	2307769W	56		44547W	55	8
2300759W	14	64	230406W	24	8	2307919W	34	2.3	46629W	19	4
2300760W	28	40	230406W	54	5	246769W	16	60	53559W	24	20
2300760W	28	71	230406W	55	5	2570W	38	6	55289W	16	44
2300767W	28	8	2304112W	28		2570W	38	9	55289W	48	3
2300777W	12	93	2304112W	46	1	259543W	3	3.22	56995W	6	1.3
2300778W	12	91	2304366W	28	28	259543W	5	2.3	58924W	16	50
2300792W	9	1	2304675W	20	70	261542W	18	10	58924W	48	5
2300935W	28	3	2304690W	16	65	261542W	18	18	63105W	16	43
2300935W	46	2	2304803W	23	88	261542W	19	5	63105W	48	9
2300935W	47	8	2304942W	12	25	261542W	48	1.3	6607W	24	15
2300936W	28	2	2304942W	14	25	261542W	50	2	79972W	18	9
2300962W	2	314	2304978W	18	3	265401W	19	10	79972W	48	1.1
2301140W	3	1.7	2305072W	18	1	274044W	4	1.5	79979W	19	4
2301140W	4	2.7	2305096W	23	222	279392W	28	21	79979W	50	3
2301140W	5	3.7	2305097W	23	223	280262W	22	124	83857W	12	92
2301144W	3	1.4	2305099W	23	224	2817W	39	16	89777W	18	8
2301144W	4	2.4	2305114W	28	51	2821W	39	10	89777W	48	1.2

Part No.	Page No.	Item	Part No.	Page No.	Item	Part No.	Page No.	Item	Part No.	Page No.	Item
90263W	24	23									
90263W	54	4									
90263W	55	4									
92867W	19	8									
93878W	38	14									
95959W	2	180									
95959W	56										
95972W	22	125									
95973W	22	126									
95977W	24	9									
95978W	24	10									
96031W	22	140									
L2302774W	48	1									
sR13801898	3	3.23									
R13801898	5	2.4									
R13801901	6	2.4									
R13804177	12	14									
R13804177	14	14									
R13812514	12	18									
R13812514	12	99									
R13812514	14	18									
R15102	4										
R15102	5										
R16271	28	53									
R833217	6	1.17									
WR6-263L	41										
WR6-263L	56										
WR6-399L	41										
WR6-399L	56										
WR7-189L	41										
WR7-189L	56										
WR7-287L	41										
WR7-287L	56										
WR8-147L	41										
WR8-147L	56										
WR8-223L	41										
WR8-223L	56										
Y01C-0840	6	2.13									
Y09C-M1255	6	1.19									
Y17C-1024	6	1.8									
Y25G-(1024)16	34	2.2.2									
Y25G-0416	2	319									
Y35E-#10	34	2.2.3									
YS6-263LWS	41										
YS6-263LWS	56										
YS6-399LWS	41										
YS6-399LWS	56										
YS7-189LWS	41										
YS7-189LWS	56										
YS7-287LWS	41										
YS7-287LWS	56										
YS8-147LWS	41										
YS8-147LWS	56										
YS8-223LWS	41										
YS8-223LWS	56										

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