

## **Parts Manual**



## Allied H6H

# Hydraulic Winch

for Dressta Dozers

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

## Customer Edition



### **Safety Precautions**

Read, understand and observe the Saftey Summary on pages 2 through 4 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 the 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

#### **H6H Winch Parts for Komatsu**

Safety Summary
Unit Identification6
Oil Specifications 8
Ordering Parts
Nameplate & Decals
Section 1 Frame/Covers/Mounting Parts11
Section 2 Gear/Shaft Train
Section 3 Hydraulics/Electrical/Controls
Section 4 Optional Equipment
Section 5 Recommended Service Intervals & Kits 43
Section 6 Recommended Service Parts 51
Section 7 Numerical Index 57

#### **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.

#### **MARNING**

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.

#### **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

### **MARNING**

Multiple hazards.

Ignoring safety warnings may cause equipment damage, personal injury or death.

All possible safety hazards cannot be foreseen and included in this manual. The operator must always be alert to possible hazards that could endanger personnel or damage the equipment.

#### **Training**

- Do not operate the winch unless your are authorized and trained to do so.
- Read, understand, and follow the operating, inspection, and maintenance instructions in this manual.
- Keep yourself informed of any applicable codes, regulations and standards for the job.

#### **Personnel Safety**

- Stay in the operator's seat when operating the winch.
- Do not stand on the vehicle when operating the winch.

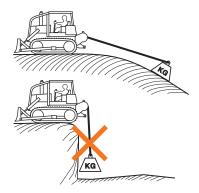
- Avoid winch operation near people or other machines.
- Never stand nor permit others to stand in the bight (loop) of a wire rope.
- Do not stand nor permit others to be near the winch or wire rope when there is tension on the wire rope.





- 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.
- Observe jobsite rules.
- Do not use the control levers for hand holds when entering or leaving the vehicle.
- 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.
- Operation Warnings
- Do not operate the winch unless the vehicle is equipped with a screen to protect the operator if the wire rope breaks.
- Be aware of the ground conditions, and make sure the ground and dozer are stable enough to pull the intended load.
- Do not attempt to pull loads in excess of the rated capacity of the winch.
- 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.
- Your winch may have temperature shut-off system for protection of dozer and winch. Manual override of high temperature shut-off will cause damage to dozer and winch.
- This winch is neither intended, designed, nor rated for any application involved in the lifting or moving of personnel.
- 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. Dozer and skidder mounted winches are designed for towing.



#### **Wire Rope Safety**

- 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.

#### **MARNING**

Wire rope or tail chain failure may cause serious injury or death.

Inspect rigging before use and obey all safety warnings.

- 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).
- 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 dozer 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.

#### **Maintenance Warnings**

- 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.

- Replace any parts only with genuine Allied Winch parts.
- Use only the lubricants listed in the Recommended Oil List on page 7.
- The hydraulic system must be kept clean and free of contamination at all times.
- Do not weld on any part of the winch. Contact Allied Systems if weld repairs are needed.

#### **Hydraulic Hazards**

- 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.

#### **A** DANGER

#### Injection hazard.

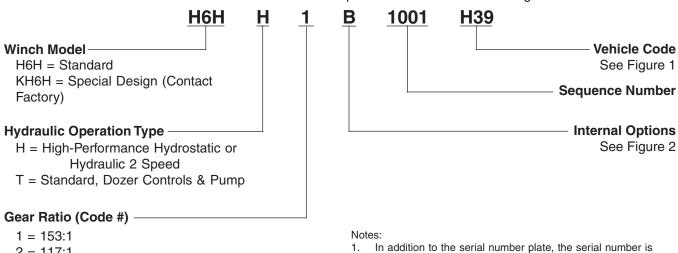
Infection and gangrene will result when hydraulic oil penetrates the skin. See a doctor immediately to prevent loss of limb or death.

Use a piece of cardboard to check for hydraulic leaks.



#### **Unit Identification**

Allied Winch Serial Number Nameplate Data For Dozer Mountings



C O D E	<b>H</b> Dressta
39	TD14/15/16S ①

2 = 117:1

3 = 70:1

4 = 81:1

5 = 143:16 = 187:1

Figure 1 - Dozer or Skidder Identification Codes and Available Gear Ratios

Circled numbers in Figure 1 indicate possible gear ratios.

	FREESPOOL	BRAKE-OFF	OVERWIND	2-SPEED CONTROL
В	Χ	X	X	
D	Χ	Χ	Χ	Χ
Е	X		Χ	
U	Χ	X		
BN		Х	Х	
DN		X	Χ	Χ
EN			Χ	
DE	Х		Х	Х
DU	X	X		X

stamped on the top left-hand side of the frame.

factory for parts and service information.

If your serial number begins with the letter "K", contact the

Figure 2 - Internal Options

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

- 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.
- 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 5 for serial number information.

#### **Abbreviations**

Abbreviations are used both on the winch and in this manual. for example, a manifold may have a port stamped "FS". That port is related to the "freespool" circuit. this abbreviation is also used on pages in this manual that reference this port, or the ports connected to this port. Figure 3 lists the most common abbreviations used in this manual.

Abbreviation	Full Name
Р	Pressure
Т	Tank
ВО	Brake Off
FA	Filter Outlet
FE	Filter Inlet
FS	Freespool
HS	High Speed
LS	Load Sense
PD	Pilot Drain
PP	Pilot Pressure
PS	Pilot Supply
RI	Reel In
RO	Reel Out
TP	Test Port
TS	Temperature Switch

Figure 3 - Abbreviations

### **Oil Specifications**

#### **Oil Selection**

To get the most suitable temperature-viscosity characteristics, choose one of the oils listed below.

Manufacturer	Winch Case (Gear Train)
Exxon-Mobil (standard)	Mobil Trans HD Series
Chevron (optional)	Drive Train Fluids HD
Caterpillar (optional)	TO-4

Figure 4 - Recommended Oil List

Factory fill is Exxon-Mobil Trans HD 30.

Note: This winch uses hydraulic fluid from the dozer. See Figure 4 for recommended gear train fluids. Contact the factory if alternate oils are required.

Use of a non-recommended oil may void the warranty.

#### **Oil Capacity**

Oil capacity for the H6H winch is 4 gallons (15 liters).

Viscosity Grade		<u>.                                      </u>	erating ure Range	Typical Ambient Temperature Range		
ISO	SAE	°F °C		°F	°C	
VG 22	10W	-5 to 140	-20 to 60	-5 to 40	-20 to 4	
VG 32	15W	10 to 160	-12 to 71	10 to 55	-20 to 13	
VG 46	20	20 to 180	-7 to 82	20 to 70	-7 to 21	
VG 68	20	30 to 200	-1 to 93	30 to 90	-1 to 32	
VG 100	30	40 to 220	4 to 104	40 to 110	4 to 43	

Figure 5 - Viscosity Chart

#### **Ordering Parts**

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

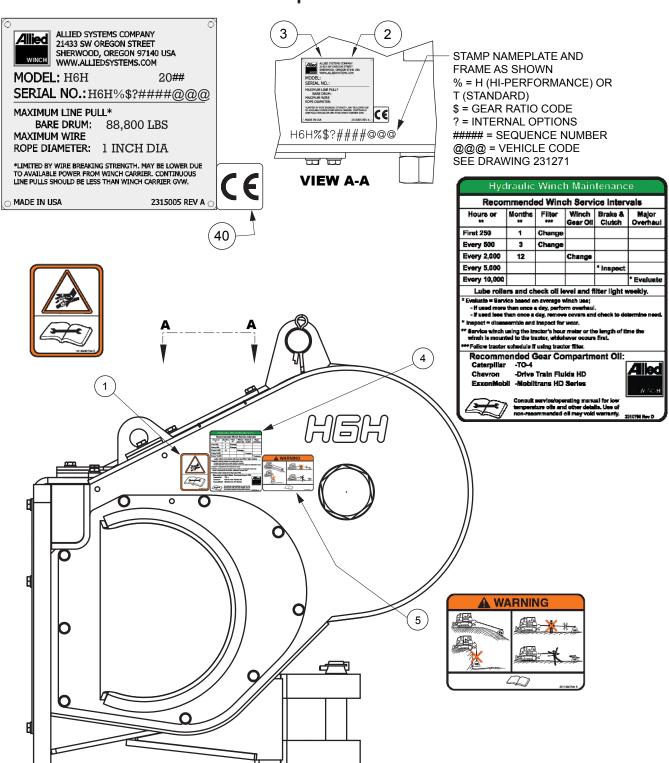
For any further information on parts, service or ordering, consult your local winch dealer, or contact Allied Systems Company:

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

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

Also see our website, www.alliedsystems.com, 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.

#### Nameplate & Decals



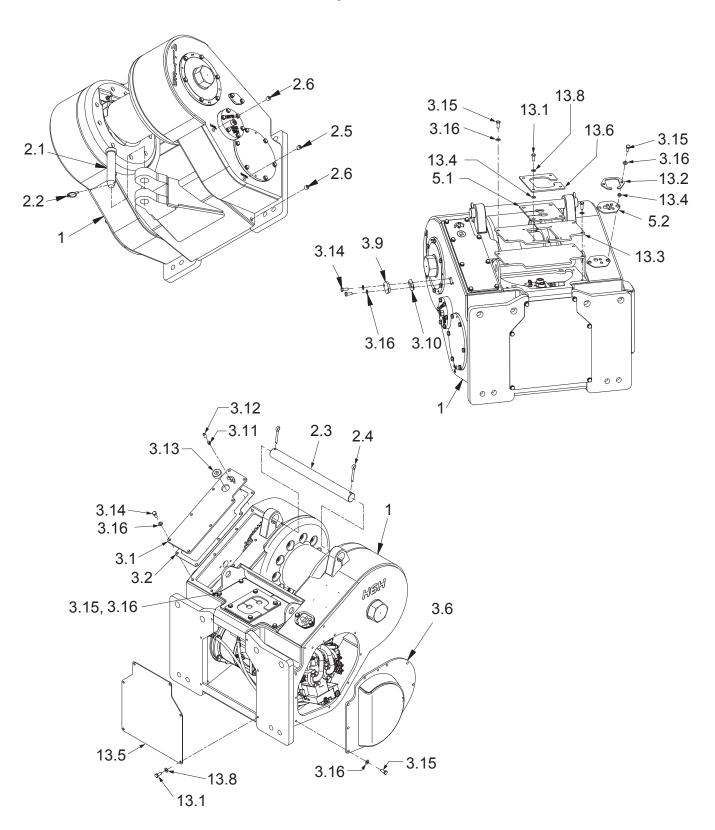
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	1321665W	2	Decal, Warning	4	2310796	1	Decal, Maintenance
2	2315005	1	Nameplate	5	2311330	1	Decal, Load & Wire Rope
3	16602W	4	Screw	40		AR	Label - CE Mark

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## Section 1 Frames and Covers

#### Frame/Covers

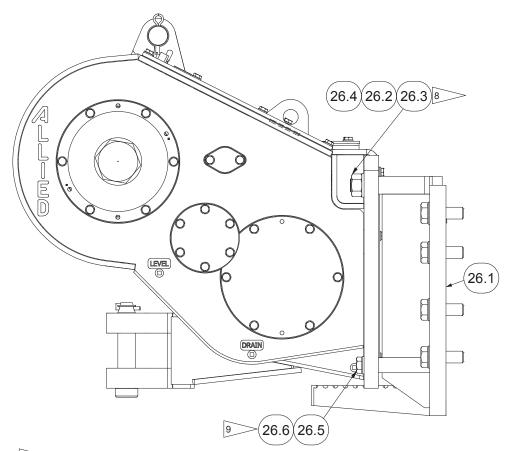
Page 1 of 2



#### Frame/Covers

Page 2 of 2

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1		1	Frame, H6H	3.16	296422W	25	Washer
2.1	95959W	1	Pin, Drawbar	5.1	2312009	1	Seal, Top
2.2	2303221W	1	Pin, Retaining	5.2	2313831	1	Gasket, Hose Seal
2.3	2312580	1	Rod, Tie	13.1	293645W	10	Capscrew
2.4	15272W	2	Pin	13.2	2312117	1	Cover
2.5	15290W	1	Fitting	13.3	2313380	2	Cover, Top
2.6	15315W	2	Fitting	13.4	2312119	6	Spacer
3.1	2312048	1	Cover, Top RH	13.5	2312046	1	Cover, Front
3.2	2312045	1	Gasket, Top RH	13.6	2312006	1	Clamp, Top
3.6	2316162	1	Cover, LH	13.8	296422W	10	Washer
3.9	151589W	1	Cover, Freespool	26.1	2316781	1	Bracket - Mounting
3.10	151646W	1	Gasket, Freespool	26.2	2312090	4	Stud
3.11	21420W	1	Plug, Breather	26.3	296440W	4	Washer
3.12	2300962W	1	Cap, Breather	26.4	2312089	4	Nut
3.13	15319W	1	Fitting	26.5	274044W	4	Capscrew
3.14	2312486	10	Capscrew	26.6	296434W	4	Washer
3.15	293645W	15	Capscrew				



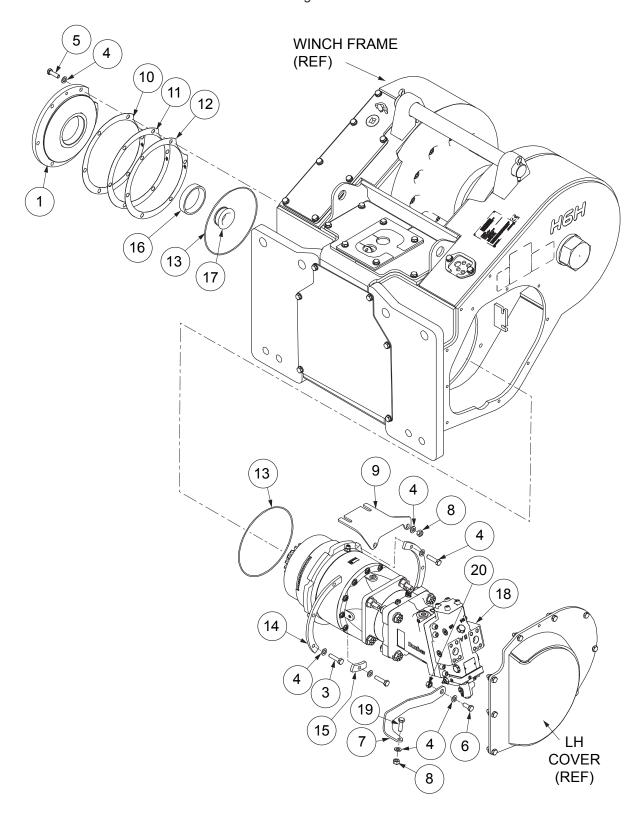
8 APPLY HCE-66, LOCTITE 271 (RED) TO STUD THREADS THAT GO INTO THE MOUNTING BRACKET

9 APPLY HCE-67, LOCTITE 242 (BLUE)

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## Section 2 Gear Shaft/Train

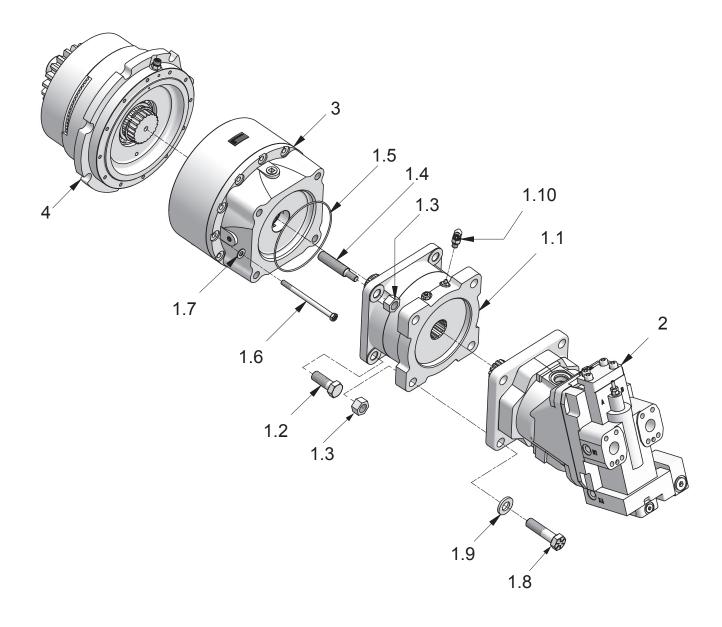
## Motor Shaft Group Page 1 of 2



## Motor Shaft Group Page 2 of 2

Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
		2311819		Motor Shaft Group					
1		2311857	1	. Cover, Bearing	15		2311918	1	. Plate, Clamp
3		2312488	7	. Capscrew	16	*b	2300668W	1	. Cup, Bearing
4		296422W	19	. Washer	17	*b	2300669W	1	. Cone, Bearing
5		2312487	6	. Capscrew	18	*c		1	. Assy, Motor Shaft
6		293645W	1	. Capscrew	19		293647W	1	. Capscrew
7		2316491	1	. Bracket, Motor Support	20		2305130W	1	. Nut, Bracket Support
8		292656W	3	. Nut					
9		2312018	1	. Plate, Manifold Bracket					
10		2312061	AR	. Shim .020		*a	Included in M	Notor, Re	educer & Brake Assembly
11		2312059	AR	. Shim .005			Rebuild Kit 2	314659	•
12		2312060	AR	. Shim .007		*b	Included in Ir	ntermedi	ate/Drum Shaft & Brake
13	*a	203564	2	. O-Ring			Assembly Re	ebuild Kit	t 2314660
14		2311917	2	. Plate, Clamp		*c	See page 19	for deta	ils

## Motor Shaft Assembly Dressta TD14/15/16S (H6HT1DH39)

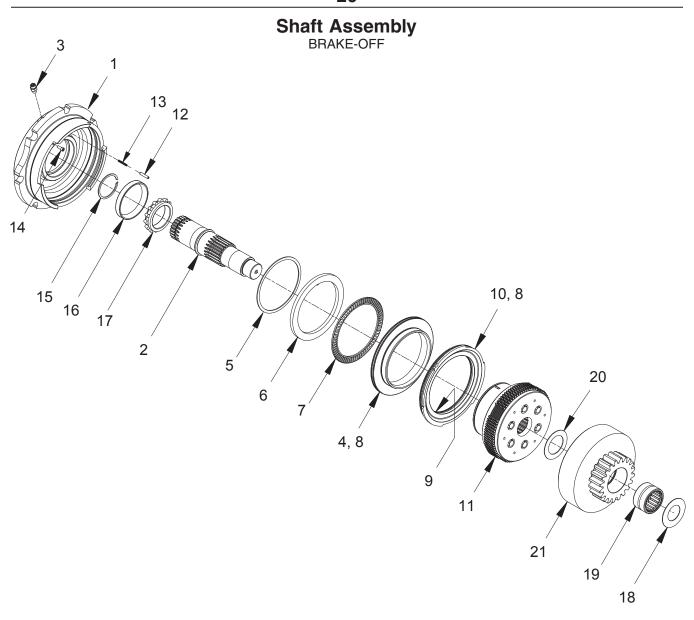


## Motor Shaft Assembly Dressta TD14/15/16S (H6HT1D\*\*H39)

Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
		2316789		Assembly, Motor Shaft					
1.1	*a	2312155	1	. Brake, Dry Disc	1.8		177192W	4	. Capscrew
1.2		Y17C-1232	2	. Capscrew	1.9		221777W	4	. Washer
1.3		221716W	6	. Hex Nut	1.10		R833251	1	. Fitting
1.4		2312041	2	. Stud	2		2316790	1	. Motor - Hyd
1.5		237349	1	. O-Ring		NS	2313890	1	O-Ring, Pilot Motor
1.6		R13801826	12	. Capscrew		NS	2316156	1	Kit, Shaft Seal
1.7		221767W	12	. Washer	3		2311883	1	. Reducer, Planetary Kit
					4		2312928	1	Assy Shaft

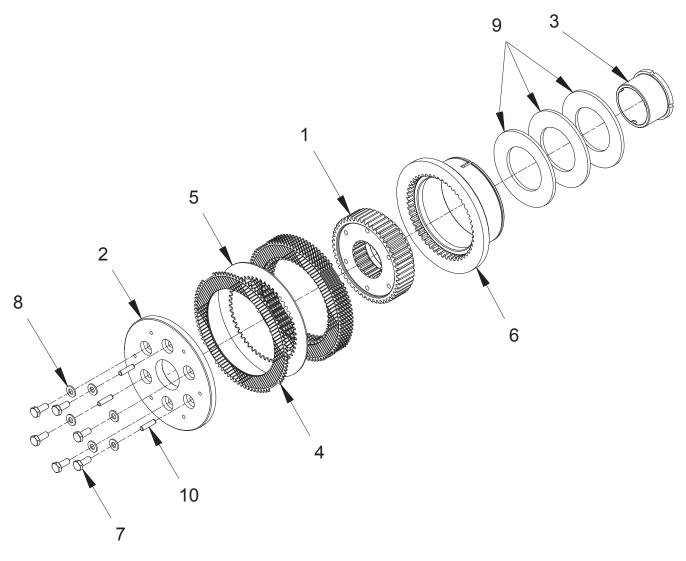
See page 23 for details Not Shown

NS



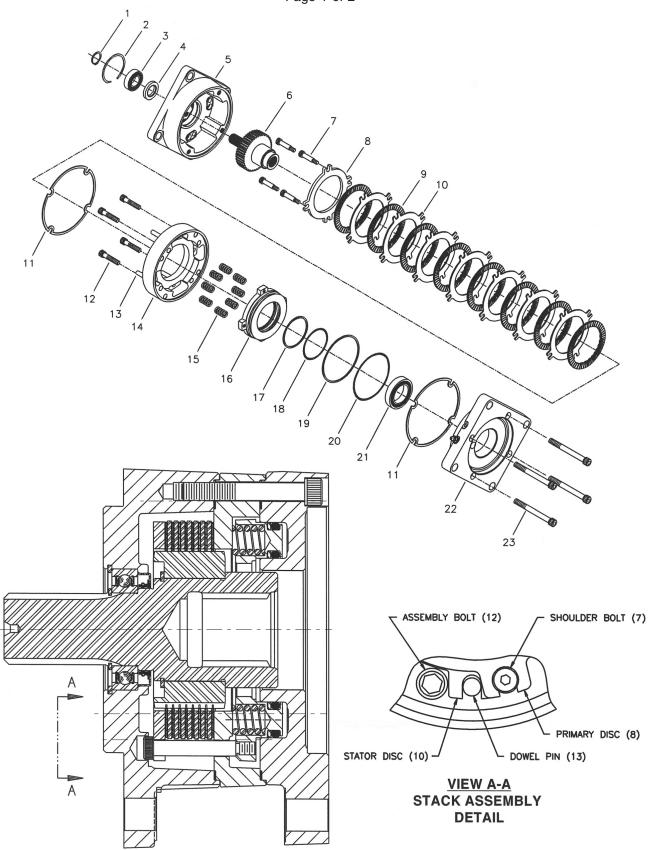
Item	Part No.	Qty	Description	Item		Part No.	Qty	Description
	2312928		Assy, BRAKE-OFF Shaft					
1	2311855	1	. Housing, Clutch	13		2303992W	1	. Spring
2	2311856	1	. Shaft, Clutch	14		R13811617	1	. Capscrew
3	231439	1	. Fitting	15		2311684	1	. Ring, Snap
ļ.	2312039	1	. Piston, Clutch	16		137153W	1	. Cup, Roller Bearing
5	2311683	1	. Ring, Snap	17		137155W	1	. Cone, Roller Bearing
;	2312442	1	. Ring, Thrust	18		2311869	1	. Shim .062
,	2311655	1	. Brg, Thrust Needle Roller	19		230407W	1	. Bearing
}	86585W	2	. O-Ring	20		2311687	1	. Shim .062
)	87287W	1	. O-Ring	21	*b	2311905	1	. Gear, Spider
0	2311880	1	. Ring, Seal					
1	2311903	1	. Assy, Clutch		*a	See page 21	for details	
12	239147W	1	. Pin		*b	Gear ratios 1		

### **Clutch Assembly**



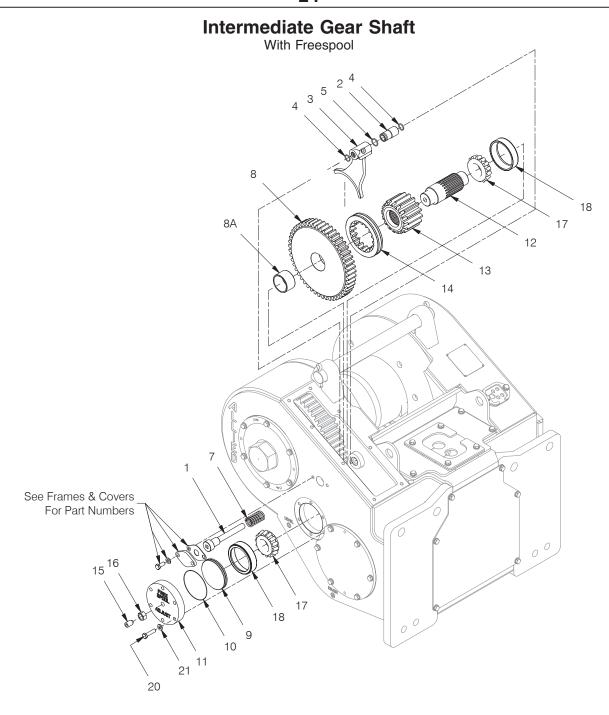
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311903		Assembly, Clutch	6	2311906	1	. Plate, Pressure
1	2311904	1	. Hub, Clutch	7	296420W	6	. Washer
2	2311907	1	. Plate, Clutch	8	293628W	6	. Capscrew
3	2312029	1	. Retainer, Spring	9	2311251	3	. Spring, Belleville
4	328715W	7	. Disc, Friction	10	222713W	3	. Pin
5	261542W	6	. Plate, Separator				

## Dry Disc Brake Page 1 of 2



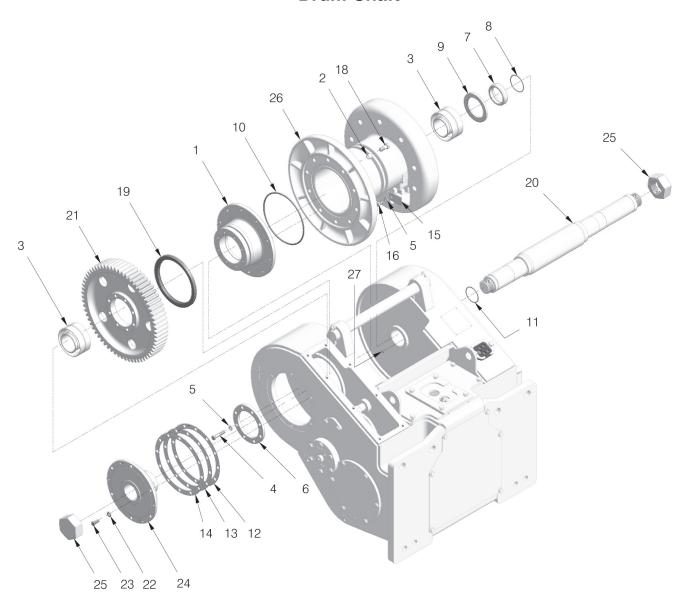
## Dry Disc Brake Page 2 of 2

Item	ı	Part No.	Qty	Description	Item	F	art No.	Qty	Description
		2312155		Brake, D Mount Dry Disc					
1		NSS	1	. Retaining Ring	21	*b	NSS	1	. Bearing
2		NSS	1	. Retaining Ring	22		NSS	1	. Pressure Plate
3	*b	NSS	1	. Bearing	23		NSS	4	. Capscrew
4	*a,*b	NSS	1	. Oil Seal					
5		NSS	1	. Cover Plate		*a	Included	in O-Ring	Repair Kit 2312302
6		NSS	1	. Spline Shaft Assembly			O-Ring R	Repair Kit 2	312302 is included in
7		NSS	4	. Bolt			Motor, Re	educer & B	Brake Assembly Rebuild Kit
8	*d	NSS	1	. Primary Disc			2314659		
9	*d	NSS	8	. Rotor Disc		*b	Included	in Bearing	Repair Kit 2312303
10	*d	NSS	7	. Stator Disc			Bearing F	Repair Kit 2	2312303 is included in
11	*a,*b,*c,*d	NSS	2	. Case Gasket			Intermedi	iate/Drum	Shaft & Brake Assembly
12		NSS	4	. Capscrew			Rebuild k	(it 2314660	)
13		NSS	4	. Dowel Pins		*c	Included	in Spring F	Repair Kit 250850
14		NSS	1	. Spring Plate			Spring R	epair Kit 2	50850 is included in
15	*c	NSS	10	. Spring, Red			Intermedi	iate/Drum	Shaft & Brake Assembly
16		NSS	1	. Piston				(it 2314660	
17	*a	NSS	1	. Backup Ring		*d	Included	in Lining F	Repair Kit 250847
18	*a	NSS	1	. O-Ring			Lining Re	epair Kit 25	0847 is Included in
19	*a	NSS	1	. Backup Ring			Intermedi	iate/Drum :	Shaft & Brake Assembly
20	*a	NSS	1	. O-Ring			Rebuild k	(it 2314660	)
						NSS	Not Sold	Separately	/



Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
1	*a	2311894	1	Shaft, Freespool	14		2312269	1	Clutch, Dental
2		2305097W	1	Piston, Freespool	15		2304803W	1	Screw
3		2305099W	1	Shifter Fork, Freespool	16		221717W	1	Nut, Hex
4	*b	15862W	2	O-Ring	17	*b	2302311W	2	Cone, Bearing
5	*b	212380	1	O-Ring	18	*b	30059W	2	Cup, Bearing
7		2305096W	1	Spring	20		2312488	6	Capscrew
8	*c	283434W	1	Assy, Intermediate Gear	21		296422W	6	Washer, Hard
8	*d	2303036	1	Assy, Intermediate Gear					
8A		283432W	1	. Bushing		*a	Apply Thread	llock 318	702W to threads
9		2302624W	1	Piston, Freespool Adjust		*b			te/Drum Shaft & Brake
10	*b	159940W	1	O-Ring			Assembly Re	build Kit	2314660
11		2302625W	1	Housing, Freespool Adjust		*c	Gear ratios 1	& 6	
12		2305956W	1	Shaft, Intermediate		*d	Gear ratios 2	& 5	
13		2312280	1	Gear, Pinion					

### **Drum Shaft**

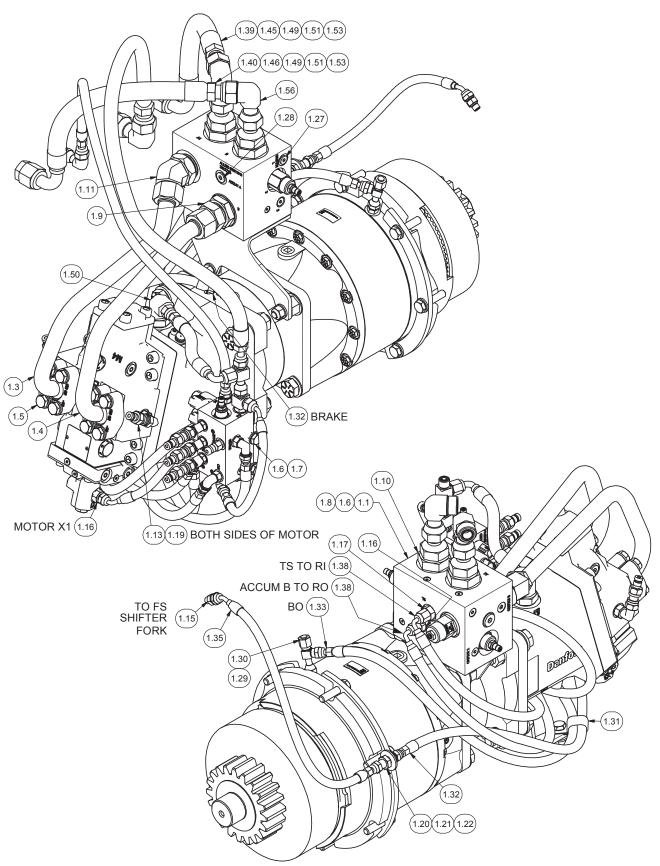


Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
1		141674W	1	Adapter					
2		53559W	10	Thimble, Tapered	17		221771W	8	Hard Washer
3	*b	2310093	2	Bearing, Roller	18		2310891	10	Capscrew
4		221577W	8	Capscrew	19		141671W	1	Seal, Oil
5	*b	15158W	9	Washer	20		2312064	1	Shaft, Drum
6		95978W	1	Retainer	21		95977W	1	Gear, Drum
7	*a	172808W	1	Spacer	22		296422W	6	Washer
8		15881W	1	O-Ring	23		2312486	6	Capscrew
9	*b	44547W	1	Seal, Öil	24		172810W	1	Retainer
10	*b	133927W	1	Ring, Piston Seal	25	*a	2312099	2	Nut
11	*b	90263W	1	O-Ring	26		2313730	1	Drum, H6H
12		175648W	AR	Shim, .020	27		Y433070.45	1	Fitting
13		175647W	AR	Shim, .007					· ·
14		175646W	AR	Shim, .005					
15		2301783W	1	Keeper, Ferrule		*a	Requires Sea	lant 3586	674W
16		16829W	1	Capscrew		*b	Included in Int Assembly Reb		te/Drum Shaft & Brake 2314660

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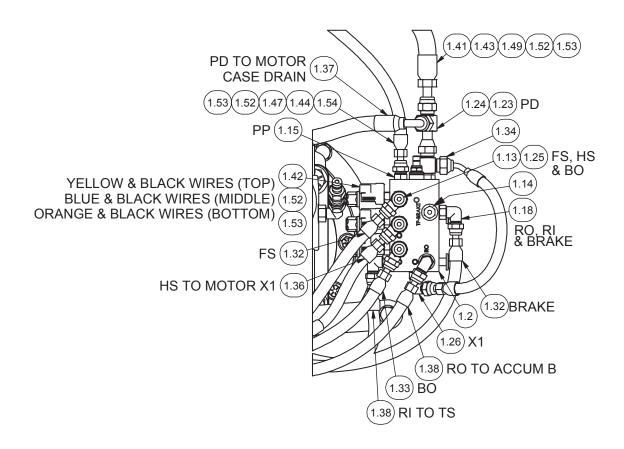
## Section 3 Hydraulic/Electrical Components

Internal Hydraulic Group
Dressta TD14S/15S/16S (H6HT1D\*\*H39)
Page 1 of 2



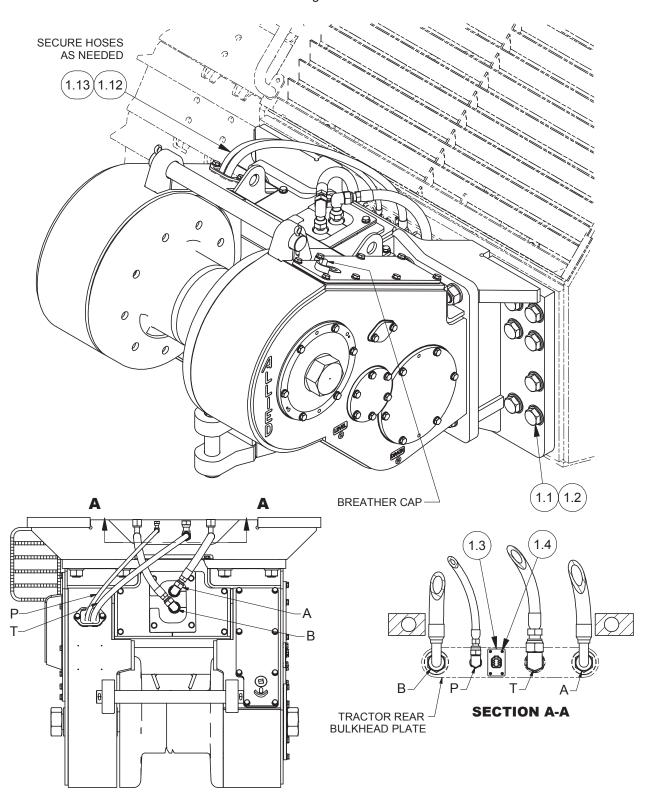
#### **Internal Hydraulic Group**

Dressta TD14S/15S/16S (H6HT1D\*\*H39) Page 2 of 2



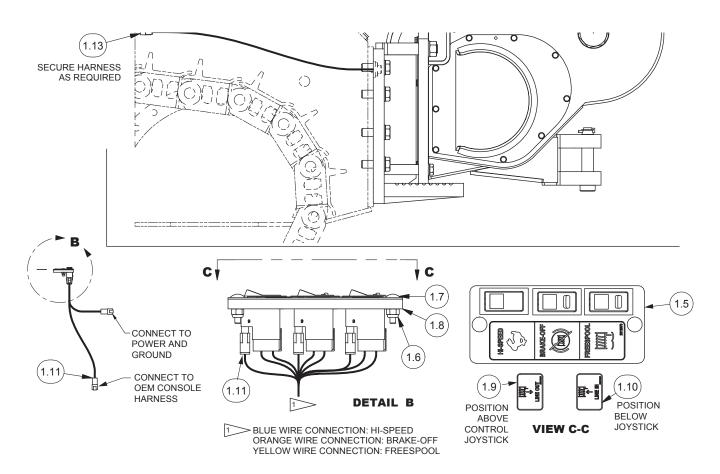
Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
1	*a	2311718	1	Manifold Assy, Rescue	35		2312212	1	Hose Assy
2	*b	2313944	1	Manifold	36		2313639	1	Hose Assy
3		2316108	1	Tube Assy	37		2312358	1	Hose Assy
4		2316109	1	Tube Assy	38		2315641	2	Hose Assy
5		592255	2	Kit, Split Flange	42		2315725	1	Harness - Wire, Winch
6		Y09C-M1025	4	Capscrew	43		2306151W	1	Label - T
7		296420W	2	Hard Washer	44		2306152W	1	Label - PS
8		15176W	2	Flat Washer	45		2310919	1	Label - Motor "A"
9		2313948	1	Fitting	46		2310920	1	Label - Motor "B"
10		R833133	2	Fitting	47		R834201	1	Fitting
11		R834100	1	Fitting	49		R834204	3	Fitting
21		15178W	1	Flat Washer	50		R833260	1	Fitting
22		211564	1	O-Ring	51		R12577880	6'	Sleeve
23		231465	1	Fitting	52		R13470	4'	Sleeve, Cordura
24		231955	1	Fitting	53		129563W	6	Cable Tie
25		R833400	3	Fitting					
26		2311500	1	Fitting Assy		*a	See page 33	for details	
27		235387	1	Fitting		*b	See page 34		
28		229383	1	Fitting					
29		236855	1	Fitting					
30		232984	1	Fitting					
31		2312628	1	Clamp					
32		2312350	2	Hose Assy					
33		2312351	1	Hose Assy					
34		2313844	1	Hose Assy					

**Hydraulic Installation**Dressta TD14S/15S/16S (H6HT1D\*\*H39) Page 1 of 2



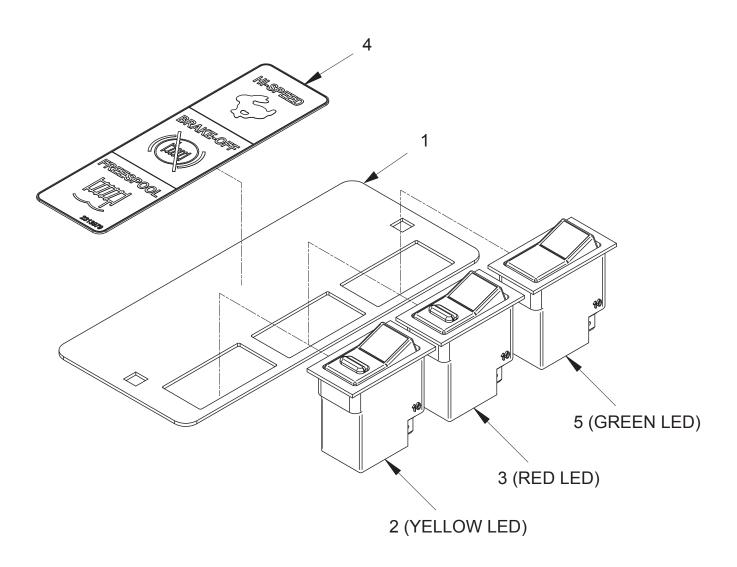
#### **Electrical Installation**

Dressta TD14S/15S/16S (H6HT1D\*\*H39) Page 2 of 2



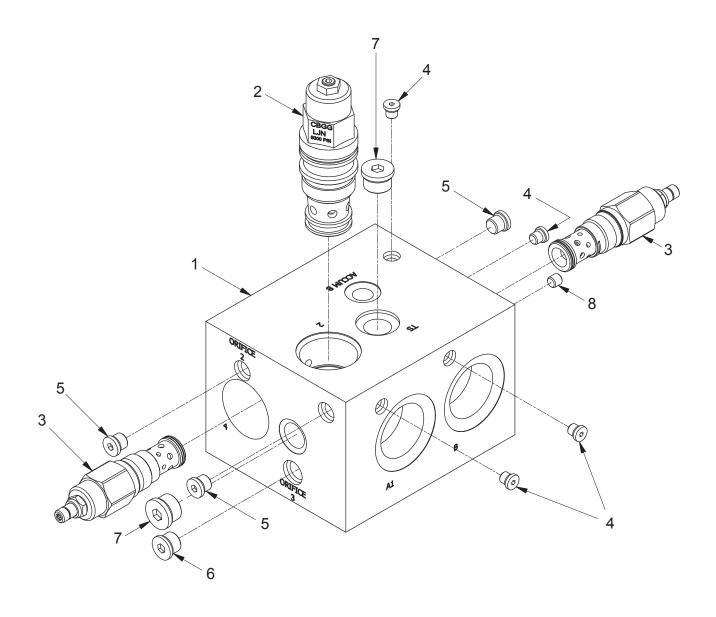
Item		Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1		Y19C-M3090	14	Capscrew	1.8	2313200	1	Spacer, Switch Assembly
1.2		296438W	14	Washer	1.9	2307122W	1	Decal, Line Out
1.3		2316838	1	Harness - Wire	1.10	2307121W	1	Decal, Line In
1.4		83262	4	Capscrew	1.11	2316779	1	Harness - Wire, Console
1.5	*a	2313978	1	Assembly - Switch Panel	1.12	R14766	2'	Spirap
1.6		R13811189	2	Locknut	1.13	129563W	12	Cable Tie
1.7		220000W	2	Bolt				

**Switch Panel Assy** FREESPOOL, BRAKE-OFF & HI-SPEED



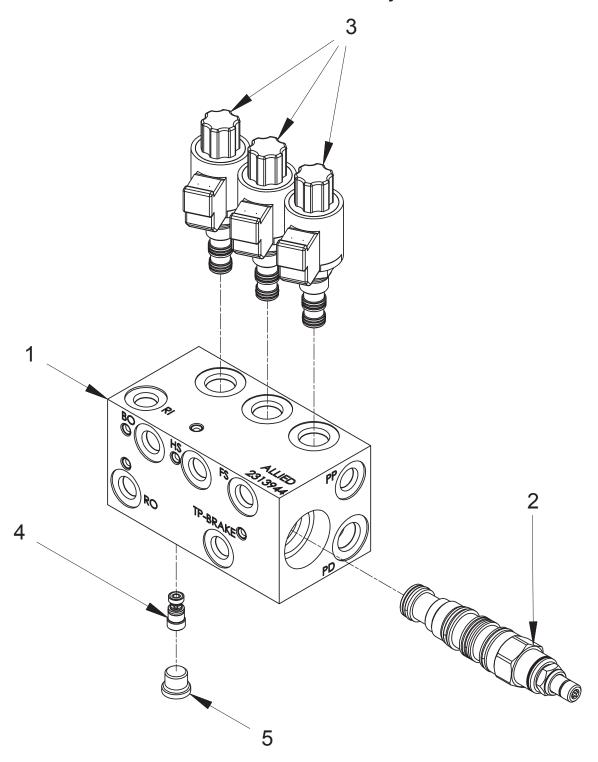
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2313978	1	Assy, Switch Panel; FREE-SPOOL, BRAKE-				
			OFF & HI-SPEED	4	2313979	1	. Decal, Switch Panel;
1	2313136	1	. Plate, Switch Mounting				FREESPOOL,
2	2310013	1	. Assy, Switch; 24V, Yellow				BRAKE-OFF & HI-SPEED
			LED	5	2311072	1	. Assy, Switch; 12/24V,
3	2310504	1	. Assy, Switch; 24V, Red LED				Green LED

### **Counterbalance Relief Manifold Assy**



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311718	1	Assy, Counterbalance				
1	2311719	1	Relief Manifold  . Body, Manifold	5	235387	3	. Fitting
2	2312068	1	. Valve, Counter Balance	6	229383	1	. Fitting
0	243815	1	Seal Kit	/ 8	229345 2310181	2 1	. Fitting . Plug, Orifice
3	2307438W 244014	2 1	. Valve, Relief Kit, Seal	ū	_5.0.0.		
4	242230	4	. Fitting				

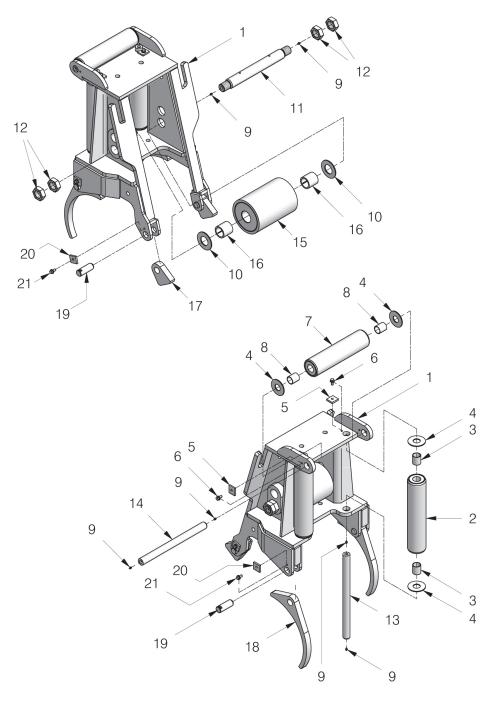
### **Control Manifold Assy**



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2313944	1	Assy, Control Manifold				
1	2313943	1	. Body, Control Manifold	4 5	4 2312074 2312112 5 235387	4	. Valve, Shuttle Seal, O-Ring . Fitting
2	2311592	1	. Valve, Directional			1	
	252566	1	Kit, Seal			1	
3	2312073	3	. Valve, Cartridge			I	
	2312111	1	Kit, Seal				

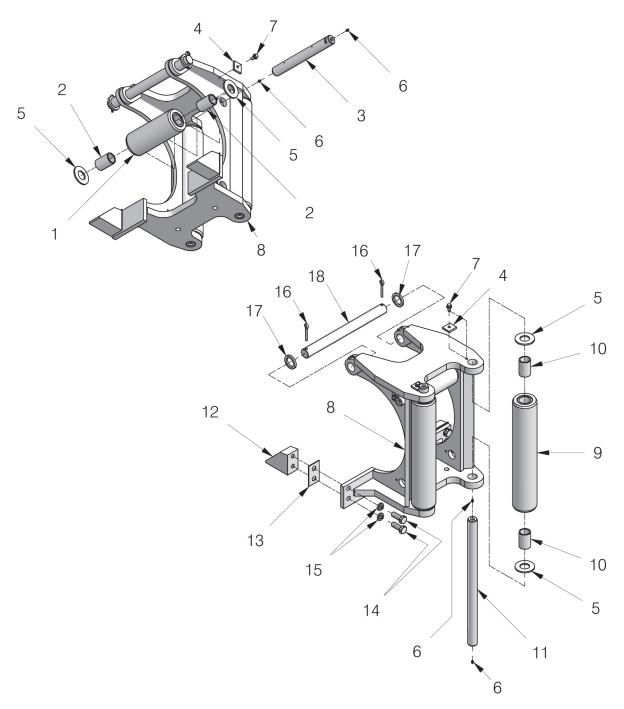
# Section 4 Optional Equipment

### Arch



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2301748W	1	Arch Assembly				
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	2310726	2	Ear, Arch
7	2301910W	1	. Roller	18	2312168	2	Lug, Wrapped
8	35135W	2	Bushing	19	2301924W	4	Pin
9	16001W	8	. Fitting, Grease	20	2301706W	4	Keeper
10	2821W	2	. Washer	21	398817W	4	Flange Screw
11	2302120W	1	. Shaft				-

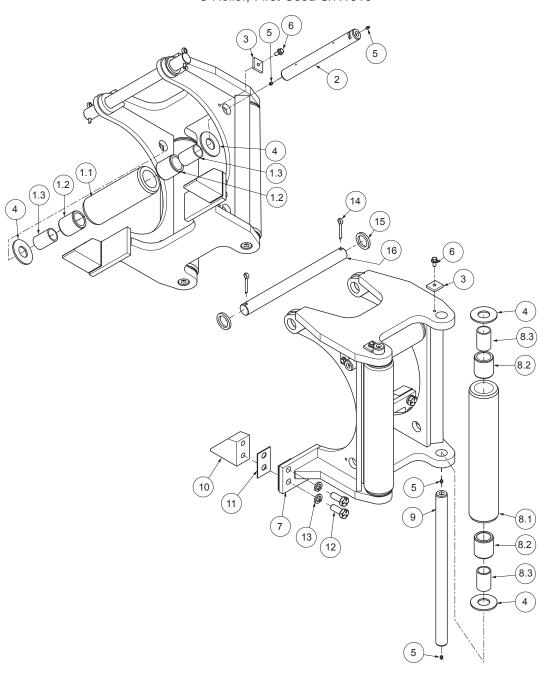
**Fairlead** 3-Roller, Last Used S/N1609



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2301731W		Fairlead Assy, 3-Roller				
1	2301727W	1	. Roller	10	2570W	4	Bushing
2	2570W	2	Bushing	11	2301721W	2	. Shaft
3	2301722W	1	. Shaft	12	226374W	2	Bracket
4	2301706W	3	. Keeper	13	93878W	AR	Shim
5	33394W	6	. Washer	14	18669W	4	Capscrew
6	16001W	6	. Fitting, Grease	15	15166W	4	Washer
7	398817W	3	. Screw, Flange	16	15272W	2	Pin, Cotter
8	2301718W	1	. Fairlead	17	2312437	2	Spacer
9	2301726W	2	. Roller	18	2312580	1	Bar, Tie

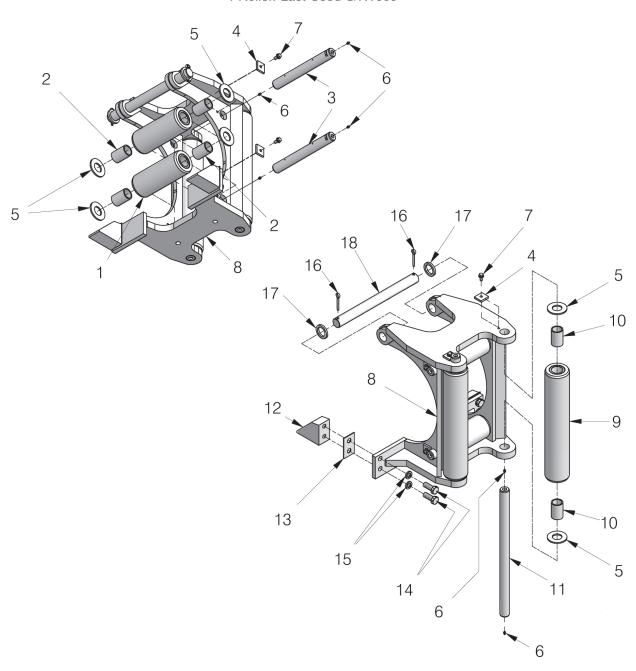
### **Fairlead**

3-Roller, First Used S/N1610



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2315548		Fairlead Assy, 3-Roller				
1	2315545	1	Roller Assy	8.1	2301724W	1	. Tube
1.1	2315544	1	. Tube	8.2	2301961W	2	. Spacer
1.2	2301961W	2	. Spacer	8.3	2570W	2	. Bushing
1.3	2570W	2	. Bushing	9	2301721W	2	Shaft, Vertical
2	2315546	1	Shaft	10	226374W	2	Bracket - Fairlead
3	2301706W	3	Keeper	11	93878W	8	Shim
4	2314097	6	Washer	12	18668W	4	Capscrew
5	16001W	6	Fitting, Lube	13	15166W	4	Washer
6	398817W	3	Screw, Flange	14	15272W	2	Cotter Pin
7	2315555	1	Frame, Fairlead	15	173607W	2	Spacer
8	2301726W	2	Roller Assy	16	2312580	1	Rod - Tie

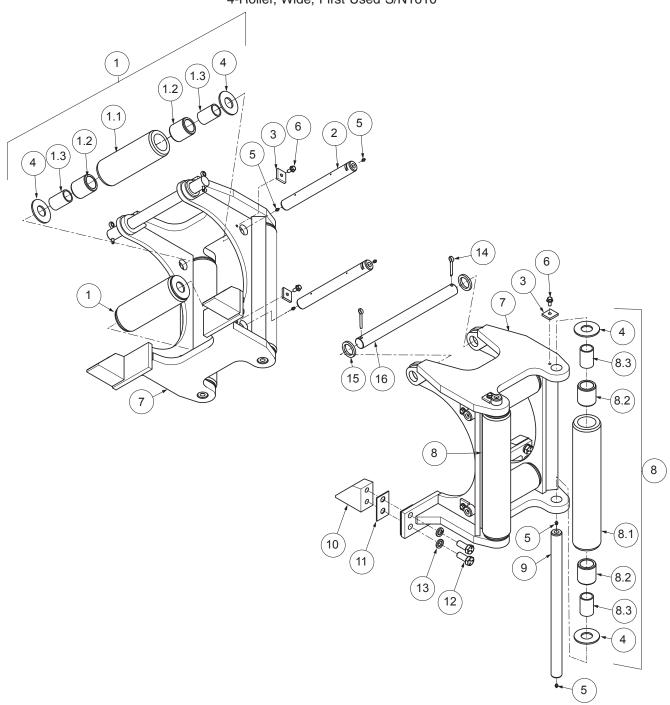
**Fairlead** 4-Roller. Last Used S/N1609



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

### **Fairlead**

4-Roller, Wide, First Used S/N1610



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2315549		Fairlead Assy, 4-Roller				
1	2315545	2	Assy, Roller	8.1	2315544	1	. Tube
1.1	2315544	1	. Tube	8.2	2301961W	2	. Spacer
1.2	2301961W	2	. Spacer	8.3	2570W	2	. Bushing
1.3	2570W	2	. Bushing	9	2301721W	2	Shaft, Vertical
2	2315546	2	Shaft	10	226374W	2	Bracket, Fairlead
3	2301706W	4	Keeper	11	93878W	8	Shim
4	2314097	8	Washer	12	18668W	4	Capscrew
5	16001W	8	Fitting, Lube	13	15166W	4	Washer
6	398817W	4	Screw, Flange	14	15272W	2	Cotter Pin
7	2315555	1	Frame, Fairlead	15	173607W	2	Spacer
8	2301726W	2	Assy, Roller	16	2312580	1	Bar, Tie

### **Wire Rope Assemblies**

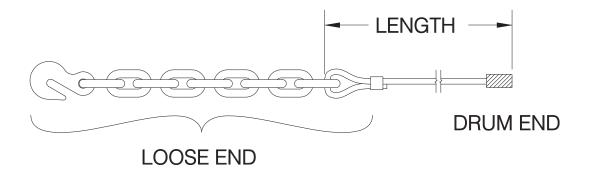


Figure A

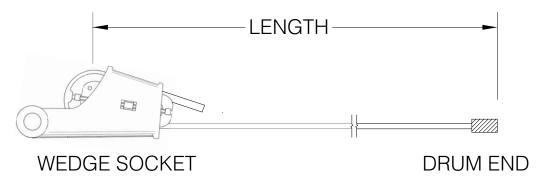


Figure B

Part No.		Wire Diameter	Length Ft (M)	Part No.		Wire Diameter	Length Ft (M)
WR6-275L	*a	3/4"	275 (84) *c	WR8-154L	*a	1"	154 (47) *c
WR6-413L	*a	3/4"	413 (126) *d	WR8-230L	*a	1"	230 (70) *d
YS6-275LWS	*b	3/4"	275 (84) *c	YS8-154LWS	*b	1"	154 (47) *c
YS6-413LWS	*b	3/4"	413 (126) *d	YS8-230LWS	*b	1"	230 (70) *d
WR7-198L	*a	7/8"	198 (60) *c				, ,
WR7-297L	*a	7/8"	297 (91) *d		*a	WR Series Wire Rope (I	llustrated in Figure A)
YS7-198LWS	*b	7/8"	198 (60) *c		*b	YS Series Wire Rope (III	ustrated in Figure B)
YS7-297LWS	*b	7/8"	297 (91) *d		*c	Length to fill drum to 2/3 c	apacity (recommended)
					*d	Length to fill drum to full	capacity

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# Section 5 Service Intervals and Kits

#### **Recommended Winch Service Intervals and Kits**

Following the service schedule recommended here to help keep dozer winch downtime to a minimum, optimize winch operation, and extend the life of your investment.

See Table 1 for recommended service intervals, and Table 2 for recommended service kits.

	Hydraulic 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 2,000	12		Change							
Every 5,000				*Inspect						
Every 10,000					*Evaluate					

Lube rollers and check oil level and filter light every week.

- \* Evaluate = Service based on average winch use;
  - If used more than once a day, perform an 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 dozer's hour meter or the length of time the winch is mounted to the dozer, whichever occurs first.
- \*\*\* Follow dozer schedule if using dozer filter.

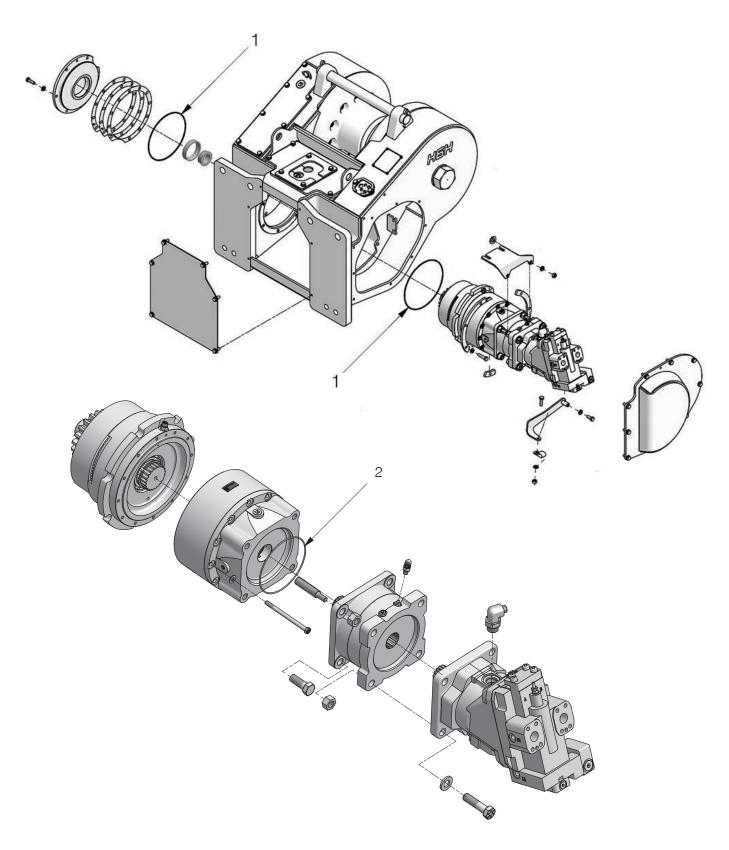
	Recommended Gear Compartment Oil								
Chevron	Drive Train Fluids HD	Consult service/operating manual for low							
ExxonMobil	Mobiltrans HD Series	temperature oils and other details. Use of non-recommended oil may void the warranty.							

Table 1 Recommended Winch Service Intervals

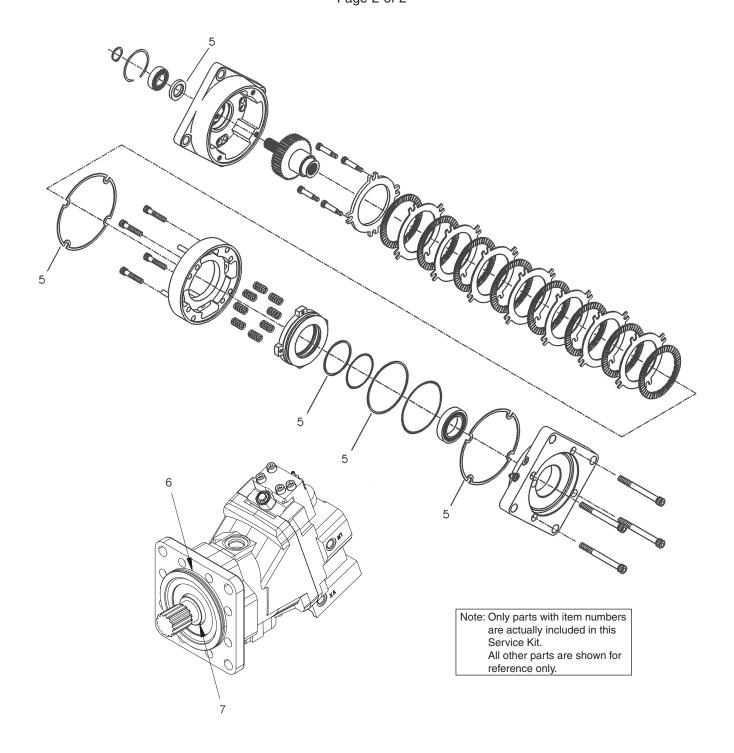
Service Kits for H6H Winches									
Service Description	Kit Description	Winch Serial Number	Kit Part# for Hi- Performance (H) Winches	Kit Part# for Standard (T) Winches					
Filter change	Filter kit	All	Refer to dozer operator and service manuals						
Complete oil change (every 1,000 hours)	N/A	All	Check our website for current operator's and service manuals fo appropriate oils						
Clutch and brake overhaul (every 5,000 hours)	Motor, reducer & brake assembly rebuild kit	All	231	4659					
Major overhaul (every 10,000 hours)	Intermediate/drum shaft & brake assembly rebuild kit	All	231	4660					

Table 2 Routine Maintenance Kits

## Motor, Reducer & Brake Assembly Rebuild Kit: 2314659 Page 1 of 2

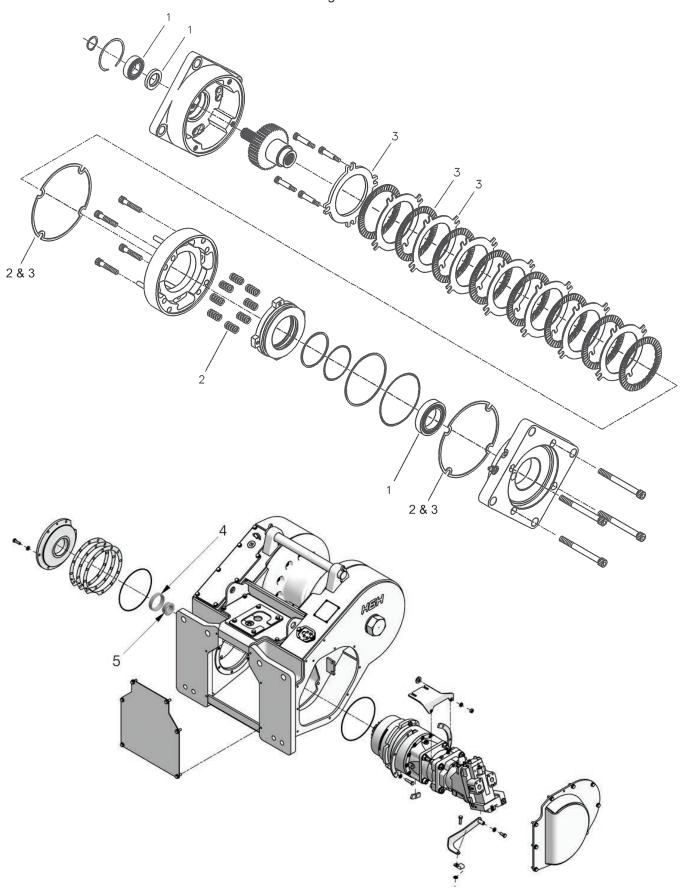


### Motor, Reducer & Brake Assembly Rebuild Kit: 2314659 Page 2 of 2

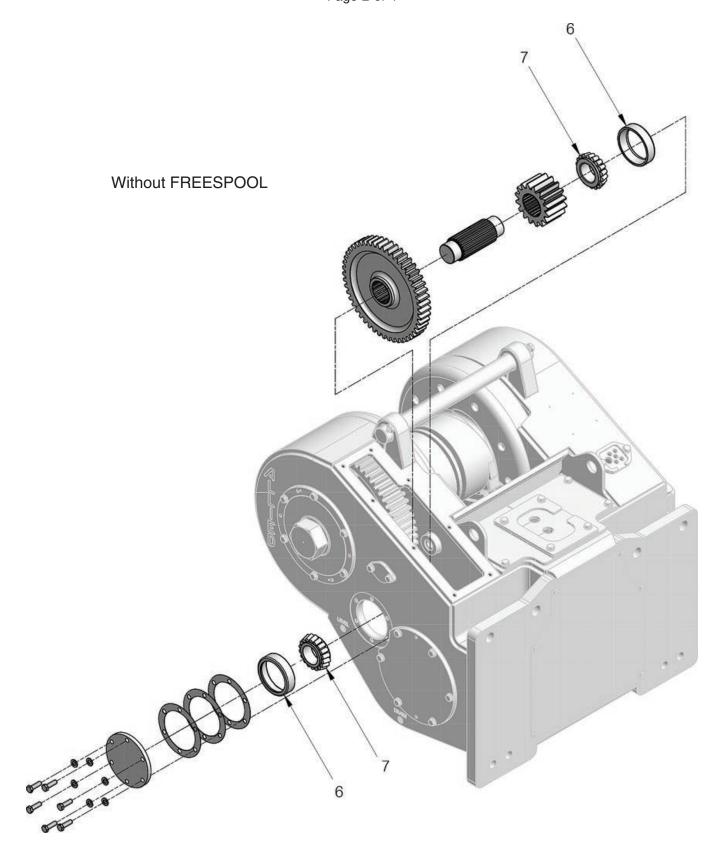


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2314659		Rebuild Kit, Motor, Reducer& Brake Assy	4	230064W	1	. Adhesive (Not Shown)
1 2 3	203564 237349 313022W	2 1 1	. O-Ring . O-Ring . Adhesive (Not Shown)	5 6 7	2312302 2313890 2313891	1 1 1	. Kit, O-Ring . O-Ring . Kit, Shaft Seal

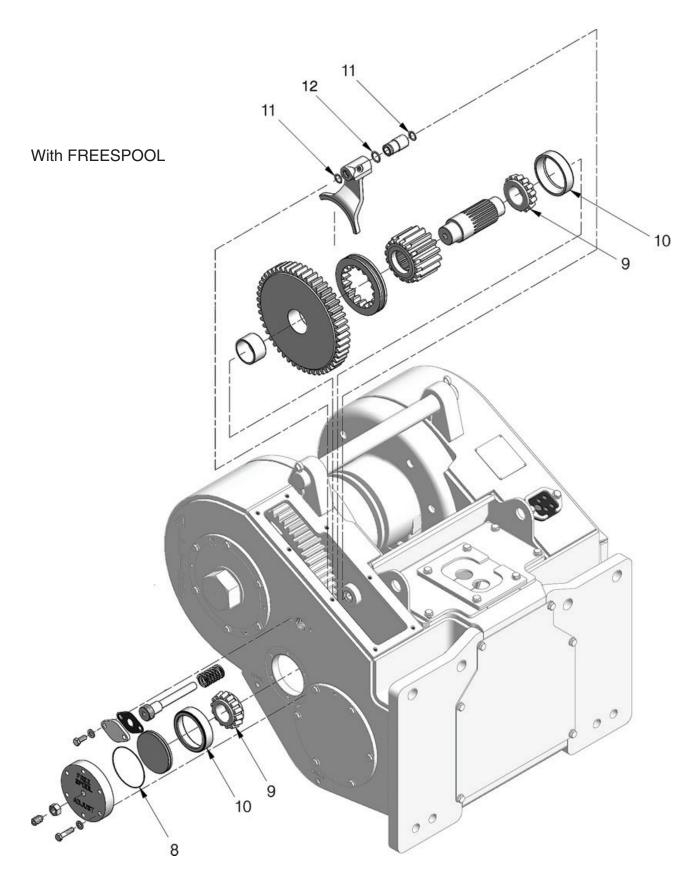
## Intermediate/Drum Shaft & Brake Assembly Rebuild Kit: 2314660 Page 1 of 4



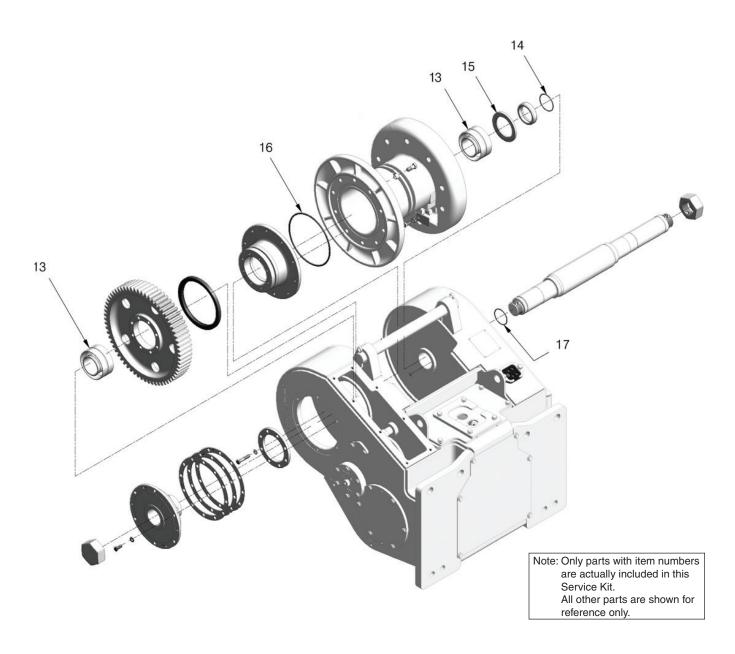
## Intermediate/Drum Shaft & Brake Assembly Rebuild Kit: 2314660 Page 2 of 4



Intermediate/Drum Shaft & Brake Assembly Rebuild Kit: 2314660 Page 3 of 4



### Intermediate/Drum Shaft & Brake Assembly Rebuild Kit: 2314660 Page 4 of 4



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2314660		Rebuild Kit, Intermediate/				
			Drum Shaft & Brake Assy	10	30059W	2	. Cup, Bearing
1	2312303	1	Repair Kit, Bearing	11	15862W	2	. O-Ring
2	250850	1	. Repair Kit, Spring	12	212380	1	. O-Rina
3	250847	1	. Repair Kit, Lining	13	230406W	2	. Bearing, Roller
4	2300668W	1	. Cup, Bearing	14	15881W	1	. O-Ring
5	2300669W	1	. Cone, Bearing	15	44547W	1	. Seal, Oil
6	30059W	2	. Cup, Bearing	16	133927W	1	. Ring, Piston Seal
7	30080W	2	. Cone, Bearing	17	90263W	1	. O-Ring
8	159940W	1	. O-Ring	17	9020300	'	. O-Hilly
9	2302311W	2	. Cone, Bearing				

# Section 6 Recommended Service Parts

#### **Recommended Service Parts**

The following pages list some of the service parts and kits that are available for your Allied H6H Winch.

Page 52 lists gaskets and seals. Keep these parts in stock at all times for regular maintenance. Order parts from the table based on your winch.

Page 53 contains kits for 5,000 hour and 10,000 hour scheduled maintenance. Order these kits in preparation for these intervals. Each kit includes all parts listed in the table.

Page 54 lists wire rope assemblies. Order parts as required and as relevant for your installation.

Page 54 also lists spare parts. Order parts or kits as required and as relevant for your installation.

Page 55 contains a list of operator controls components. Order parts as required.

Page 55 and 56 list tool kits and diagnostic tools, which are useful when you install, maintain and service your winches.

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

Gaskets & S	Seals		Order as Re	equired		
Applies to:	H6H Standard Winch mounted on Dress	ta TD14/1	5/16S (H39)			
Allied P/N	Description	winch Manual Page				
2312045	Gasket, Top Right-Hand	1	Frames/Covers			
151646W	Gasket, Freespool	1	Frames/Covers			
2312009	Seal, Top	1	Frames/Covers			
2313831	Gasket, Hose Seal	1	Frames/Covers			
252566	Seal Kit, Directional Valve (P/N 2311592)	1	Control Manifold Assembly			
2312111	Seal Kit, Cartridge Valve (P/N 2312073)	1	Control Manifold Assembly			
2312112	Seal Kit, Shuttle Valve (P/N 2312074)	1	Control Manifold Assembly			
259258	Seal Kit (Buna), Relief Valve (P/N 2307438W)	2	CBR Manifold Assembly			
243815	Seal Kit, Counterbalance Valve (P/N 2312068)	1	CBR Manifold Assembly			

#### Motor, Reducer & Brake Assembly Rebuild Kit, P/N: 2314659

Applies to: Dressta TD14/15/16S (H39)

Service Interval: Every 5,000 Hours

Allied P/N	Description	Qty in Kit	See Parts Manual Page	Order Qty
2314659	Rebuild Kit, Motor, Reducer & Brake Assy			
203564	. O-Ring	2	Motor Shaft Group	
237349	. O-Ring	1	Motor Shaft Assembly	
313022W	. Adhesive	1	Motor Shaft Assembly	
230064W	. Adhesive	1	Motor Shaft Assembly	
2312302	. Kit, O-Ring	1	Brake, Dry Disc	
2313890	. O-Ring	1	Hydraulic Motor	
2313891	. Kit, Shaft Seal	1	Hydraulic Motor	

### Intermediate/Drum Shaft, and Brake Assembly Rebuild Kit, P/N: 2314660

Applies to: Dressta TD14/15/16S (H39) Service Interval: Every 10,000 hours

Allied P/N	Description	Qty in Kit	See Parts Manual Page	Order Qty
2314660	Rebuild Kit, Intermed./Drum Shaft, & Brake Assy			
2312303	. Repair Kit, Bearing	1	Brake, Dry Disc	
250850	. Repair Kit, Spring	1	Brake, Dry Disc	
250847	. Repair Kit, Lining	1	Brake, Dry Disc	
2300668W	. Cup, Bearing	1	Motor Shaft Group	
2300669W	. Cone, Bearing	1	Motor Shaft Group	
30059W	. Cup, Bearing	1	Shaft, Intermediate Gear	
30080W	. Cone, Bearing	1	Shaft, Intermediate Gear	
159940W	. O-Ring	1	Shaft, Intermediate Gear	
2302311	. Cone, Bearing	2	Shaft, Intermediate Gear	
30059W	. Cup, Bearing	2	Shaft, Intermediate Gear	
15862W	. O-Ring	2	Shaft, Intermediate Gear	
212380	. O-Ring	1	Shaft, Intermediate Gear	
230406W	. Bearing, Roller	2	Shaft, Drum	
15881W	. O-Ring	1	Shaft, Drum	
44547W	. Seal, Oil	1	Shaft, Drum	
133927W	. Ring, Piston Seal	1	Shaft, Drum	
90263W	. O-Ring	1	Shaft, Drum	

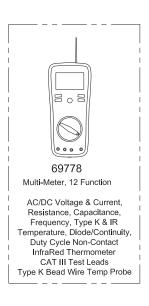
Wire Rope As Applies to:	semblies Dressta TD14/15/16S (H39	)	Order as F	Required
Allied P/N	Description	Length	Will Fill Drum To:	Order Qty
WR6-275L	Wire Rope Assembly, 3/4"	275 FT (84 M)	2/3 Capacity (Recommended)	
WR6-413L	Wire Rope Assembly, 3/4"	413 FT (126 M)	Full Capacity	
WR7-198L	Wire Rope Assembly, 7/8"	198 FT (60 M)	2/3 Capacity (Recommended)	
WR7-297L	Wire Rope Assembly, 7/8"	297 FT (91 M)	Full Capacity	
WR8-154L	Wire Rope Assembly, 1"	154 FT (47 M)	2/3 Capacity (Recommended)	
WR8-230L	Wire Rope Assembly, 1"	230 FT (70 M)	Full Capacity	
YS6-275LWS	Wire Rope Assembly, 3/4"	275 FT (84 M)	2/3 Capacity (Recommended)	
YS6-413LWS	Wire Rope Assembly, 3/4"	413 FT (126 M)	Full Capacity	
YS7-198LWS	Wire Rope Assembly, 7/8"	198 FT (60 M)	2/3 Capacity (Recommended)	
YS7-297LWS	Wire Rope Assembly, 7/8"	297 FT (91 M)	Full Capacity	
YS8-154LWS	Wire Rope Assembly, 1"	154 FT (47 M)	2/3 Capacity (Recommended)	
YS8-230LWS	Wire Rope Assembly, 1"	230 FT (70 M)	Full Capacity	

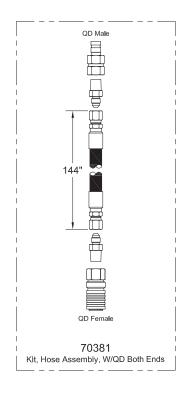
Spare Parts			Order as	Required
Applies to: Dress	sta TD14/15/16S (H39)			
Allied P/N	Description	Qty on Winch	See Parts Manual Page	Order Qty
2316790	Motor, Hydraulic	1	Motor Shaft Group	
2311883	Assembly, Reducer	1	Motor Shaft Assembly	
2311683	Assembly, Brake	1	Motor Shaft Assembly	
21420W	Plug, Breather	1	Frame/Covers	
2300962W	Cap, Breather	1	Frame/Covers	
95959W	Pin, Drawbar	1	Frame/Covers	
2303221W	Pin, Retaining	1	Frame/Covers	
2312099	Nut, Blind	2	Shaft, Drum	
2301783W	Keeper, Ferrule	1	Shaft, Drum	
328715W	Disc, Friction	7	Clutch Assembly	
283434W	Assembly, Gear	1	Shaft, Intermediate Gear	
2570W	Bushing	6	Fairlead, 3-Roller	
2570W	Bushing	8	Fairlead, 4-Roller	

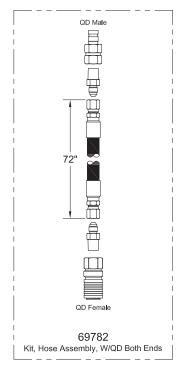
	rols Components essta TD14/15/16S (H39)	Order as	Required
Allied P/N	Description	Qty on Winch	Order Qty
2310013	Assembly, Switch (Yellow LED)	1	
2310504	Assembly, Switch (Red LED)	1	
2311072	Assembly, Switch (Green LED)	1	

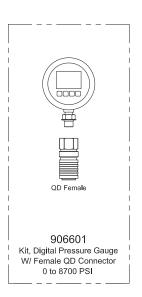
Tool Kits		
Order these to	ol kits as required for installation, maintenance and servic	e of your winch(es).
Allied P/N	Description	Order Qty
588466	Socket Set, 3/8DR 3/8" to 7/8" STD/Deep, 22 PC	
588467	Socket Set, 1/2DR 3/8" to 1-1/4" STD/Deep, 30 PC	
588468	Socket Set, 3/4DR 7/8" to 2-3/8" STD, 29 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 Tool	S Orde	er as Required				
Order these too	Order these tools as required for maintenance and service of your winch(es).					
Allied P/N	Description	Order Qty				
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					









# Section 7 Numerical Index

				<del>50</del>				
Part No.	Page	Item No.	Part No.	Page	Item No.	Part No.	Page	Item No
83262	31	1.4	2311592	35	2	2312112	35	
203564	17	13	2311655	20	7	2312117	13	13.2
203564	47	1	2311683	20	5	2312119	13	13.4
211564	29	22	2311684	20	15	2312155	19	1.1
212380	24	5	2311687	20	20	2312155	23	
212380	51	12	2311718	29	1	2312168	37	18
229345	34	7	2311718	34		2312212	29	35
229383	29	28	2311719	34	1	2312269	24	14
229383	34	6	2311819	17		2312280	24	13
231439	20	3	2311855	20	1	2312302	47	5
231465	29	23	2311856	20	2	2312303	51	1
231955	29	24	2311857	17	1	2312350	29	32
232984	29	30	2311869	20	18	2312351	29	33
234509	33	5	2311880	20	10	2312358	29	37
235387	29	27	2311883	19	3	2312437	38	17
235387	34	5	2311894	24	1	2312437	40	17
235387	35	5	2311903	20	11	2312442	20	6
236855	29	29	2311903	21		2312486	13	3.14
237349	19	1.5	2311904	21	1	2312486	25	23
237349	47	2	2311905	20	21	2312487	17	5
242230	34	4	2311906	21	6	2312488	17	3
243815	34		2311907	21	2	2312488	24	20
250847	51	3	2311917	17	14	2312580	13	2.3
250850	51	2	2311918	17	15	2312580	38	18
252566	35		2312006	13	13.6	2312580	39	16
255601	34		2312009	13	5.1	2312580	40	18
259258	34		2312018	17	9	2312580	41	16
592255	29	5	2312029	21	3	2312628	29	31
2303036	24	8	2312039	20	4	2312928	19	4
2310013	32	2	2312041	19	1.4	2312928	20	
2310093	25	3	2312045	13	3.2	2313136	32	1
2310181	34	8	2312046	13	13.5	2313136	33	1
2310504	32	3	2312048	13	3.1	2313200	31	1.8
2310504	33	3	2312059	17	11	2313380	13	13.3
2310726	37	17	2312060	17	12	2313639	29	36
2310796	10	4	2312061	17	10	2313730	25	26
2310891	25	18	2312064	25	20	2313831	13	5.2
2310919	29	45	2312068	34	2	2313844	29	34
2310920	29	46	2312073	35	3	2313890	19	
2311072	32	5	2312074	35	4	2313890	47	6
2311072	33	4	2312089	13	26.4	2313891	47	7
2311251	21	9	2312090	13	26.2	2313943	35	1
2311330	10	5	2312099	25	25	2313944	29	2
2311500	29	26	2312111	35		2313944	35	

Part No.	Page	Item No.	Part No.	Page	Item No.	Part No.	Page	Item No.
2313948	29	9	15158W	25	5	221577W	25	4
2313978	31	1.5	151646W	13	3.1	221716W	19	1.3
2313978	32		15166W	38	15	221717W	24	16
2313979	32	4	15166W	39	13	221767W	19	1.7
2314097	39	4	15166W	40	15	221771W	25	17
2314097	41	4	15166W	41	13	221777W	19	1.9
2314659	47		15176W	29	8	222713W	21	10
2314660	51		15178W	29	21	226374W	38	12
2314781	33	2	15272W	13	2.4	226374W	39	10
2314787	33		15272W	38	16	226374W	40	12
2315005	10	2	15272W	39	14	226374W	41	10
2315544	39	1.1	15272W	40	16	230064W	47	4
2315544	41	1.1	15272W	41	14	2300668W	17	16
2315544	41	8.1	15290W	13	2.5	2300668W	51	4
2315545	39	1	15315W	13	2.6	2300669W	17	17
2315545	41	1	15319W	13	3.13	2300669W	51	5
2315546	39	2	15862W	24	4	2300962W	13	3.12
2315546	41	2	15862W	51	11	2301706W	37	5
2315548	39		15881W	25	8	2301706W	37	20
2315549	41		15881W	51	14	2301706W	38	4
2315555	39	7	159940W	24	10	2301706W	39	3
2315555	41	7	159940W	51	8	2301706W	40	4
2315641	29	38	16001W	37	9	2301706W	41	3
2315725	29	42	16001W	38	6	2301718W	38	8
2316108	29	3	16001W	39	5	2301718W	40	8
2316109	29	4	16001W	40	6	2301721W	38	11
2316156	19		16001W	41	5	2301721W	39	9
2316162	13	3.6	16602W	10	3	2301721W	40	11
2316491	17	7	16829W	25	16	2301721W	41	9
2316779	31	1.11	172808W	25	7	2301722W	38	3
2316781	13	26.1	172810W	25	24	2301722W	40	3
2316789	19		173607W	39	15	2301724W	39	8.1
2316790	19	2	173607W	41	15	2301726W	38	9
2316838	31	1.3	175646W	25	14	2301726W	39	8
129563W	29	53	175647W	25	13	2301726W	40	9
129563W	31	1.13	175648W	25	12	2301726W	41	8
1321665W	10	1	177192W	19	1.8	2301727W	38	1
133927W	25	10	18668W	39	12	2301727W	40	1
133927W	51	16	18668W	40	14	2301731W	38	
137153W	20	16	18668W	41	12	2301732W	40	
137155W	20	17	18669W	38	14	2301748W	37	
141671W	25	19	21420W	13	3.11	2301749W	37	1
141674W	25	1	220000W	31	1.7	2301743W	25	15
151589W	13	3.9	221336W	37	12	2301907W	37	2

Part No.	Page	Item No.	Part No.	Page	Item No	. Part No.	Page	Item No
2301910W	37	7	2817W	37	16	86585W	20	8
2301919W	37	14	2821W	37	10	87287W	20	9
2301920W	37	13	283432W	24	8A	90263W	25	11
2301924W	37	19	283434W	24	8	90263W	51	17
2301925W	37	15	292656W	17	8	93878W	38	13
2301961W	39	1.2	293628W	21	8	93878W	39	11
2301961W	39	8.2	293645W	13	3.15	93878W	40	13
2301961W	41	1.2	293645W	13	13.1	93878W	41	11
2301961W	41	8.2	293645W	17	6	95959W	13	2.1
2302120W	37	11	293647W	17	19	95977W	25	21
2302311W	24	17	296420W	21	7	95978W	25	6
2302311W	51	9	296420W	29	7	R12577880	29	51
2302624W	24	9	296422W	13	3.16	R13470	29	52
2302625W	24	11	296422W	13	13.8	R13801826	19	1.6
2303221W	13	2.2	296422W	17	4	R13811189	31	1.6
2303992W	20	13	296422W	24	21	R13811617	20	14
230406W	51	13	296422W	25	22	R14766	31	1.12
230407W	20	19	296434W	13	26.6	R833133	29	10
2304803W	24	15	296438W	31	1.2	R833251	19	1.1
2305096W	24	7	296440W	13	26.3	R833260	29	50
2305097W	24	2	30059W	24	18	R833400	29	25
2305099W	24	3	30059W	51	6	R834100	29	11
2305130W	17	20	30059W	51	10	R834201	29	47
2305956W	24	12	30080W	51	7	R834204	29	49
2306151W	29	43	313022W	47	3	WR6-275L	42	
2306152W	29	44	328715W	21	4	WR6-413L	42	
2307121W	31	1.1	331767W	37	4	WR7-198L	42	
2307122W	31	1.9	33394W	38	5	WR7-297L	42	
2307438W	34	3	33394W	40	5	WR8-154L	42	
239147W	20	12	35135W	37	3	WR8-230L	42	
2570W	38	2	35135W	37	8	Y09C-M1025	29	6
2570W	38	10	398817W	37	6	Y17C-1232	19	1.2
2570W	39	1.3	398817W	37	21	Y19C-M3090	31	1.1
2570W	39	8.3	398817W	38	7	Y433070.45	25	27
2570W	40	2	398817W	39	6	YS6-275LWS	42	
2570W	40	10	398817W	40	7	YS6-413LWS	42	
2570W	41	1.3	398817W	41	6	YS7-198LWS	42	
2570W	41	8.3	44547W	25	9	YS7-297LWS	42	
261542W	21	5	44547W	51	15	YS8-154LWS	42	
274044W	13	26.5	53559W	25	2	YS8-230LWS	42	



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