

Parts Manual



Allied H6H

Hydraulic Winch

for Tigercat Skidders

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.

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Safety Summary

General Safety Notices

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

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

DANGER

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

⚠ WARNING

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

! CAUTION

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

NOTICE

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

NOTE: ...

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

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.

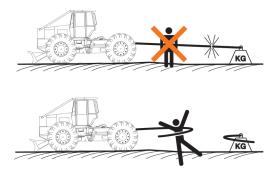
Training

- 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

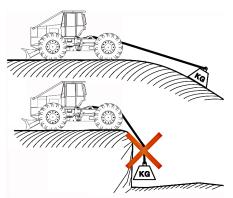
- Stay in the operator's seat when operating the winch.
- Do not stand on the vehicle when operating the winch.

- 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 skidder 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 skidder and winch. Manual override of high temperature shut-off will cause damage to skidder 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. Skidder 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.

! WARNING

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 skidder 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. See 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.

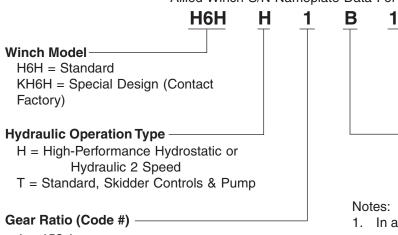
Infection and gangrene will result when hydraulic oil penetrates the skin. See a doctor immediately to prevent loss of limb or death.

Use a piece of cardboard to check for hydraulic leaks.



Unit Identification

Allied Winch S/N Nameplate Data For Skidder Mountings



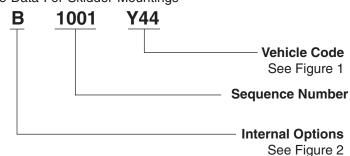
1 = 153:1

2 = 117:1

3 = 70:1

4 = 81:15 = 143:1

6 = 187:1



- 1. In addition to the serial number plate, the serial number is stamped on the top left-hand side of the frame.
- Circled numbers in Figure 1 indicate possible gear ratios.
- 3. If your serial number begins with the letter "K", contact the factory for parts and service information.
- 4. If your serial number ends with the letter "M", contact the factory for parts and service information.

C O D E	Y Tigercat
44	635D②

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

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

Figure 2 - Internal Winch 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 2 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 2 - 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.

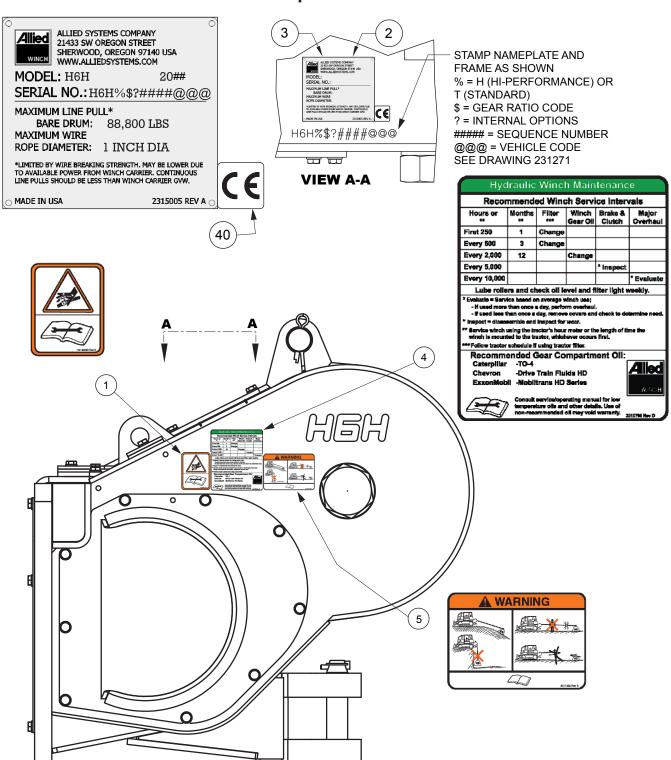
For any further information on parts, service or ordering, consult your local winch dealer, or contact Allied Systems Company:

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



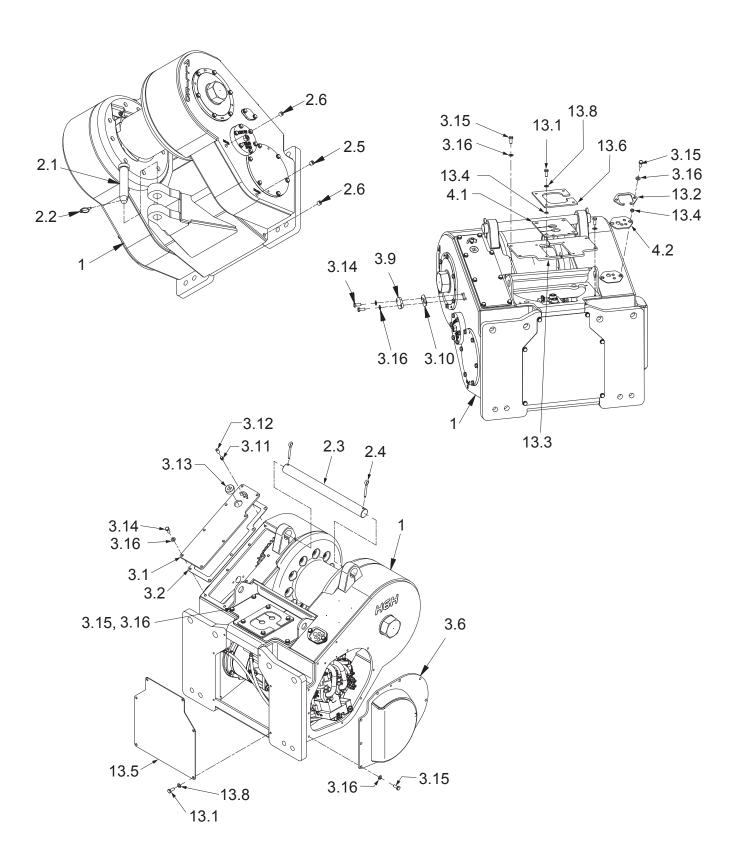
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	1321665W	2	Decal, Warning	4	2310796	1	Decal, Maintenance
2	2315005	1	Nameplate	5	2311330	1	Decal, Load & Wire Rope
3	16602W	4	Screw	40		AR	Label - CE Mark

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Section 1 Frames and Covers

Frame/Covers

Tigercat 635D (H6HT2U**Y44) Page 1 of 2



Frame/Covers

Tigercat 635D (H6HT2U**Y44) Page 2 of 2

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1		1	Frame, H6H	3.13	15319W	1	Fitting
2.1	95959W	1	Pin, Drawbar	3.14	2312486	10	Capscrew
2.2	2303221W	1	Pin, Retaining	3.15	293645W	15	Capscrew
2.3	2312580	1	Rod, Tie	3.16	296422W	25	Washer
2.4	15272W	2	Pin	4.1	2313747	1	Seal, Top
2.5	15290W	1	Fitting	4.2	2313744	1	Seal, Top LH
2.6	15315W	2	Fitting	13.1	293645W	10	Capscrew
3.1	2312048	1	Cover, Top RH	13.2	2312117	1	Cover
3.2	2312045	1	Gasket, Top RH	13.3	2313380	2	Cover, Top
3.6	2316162	1	Cover, LH	13.4	2312119	6	Spacer
3.9	151589W	1	Cover, Freespool	13.5	2312046	1	Cover, Front
3.10	151646W	1	Gasket, Freespool	13.6	2312006	1	Clamp, Top
3.11	21420W	1	Plug, Breather	13.8	296422W	10	Washer
3.12	2300962W	1	Cap, Breather				

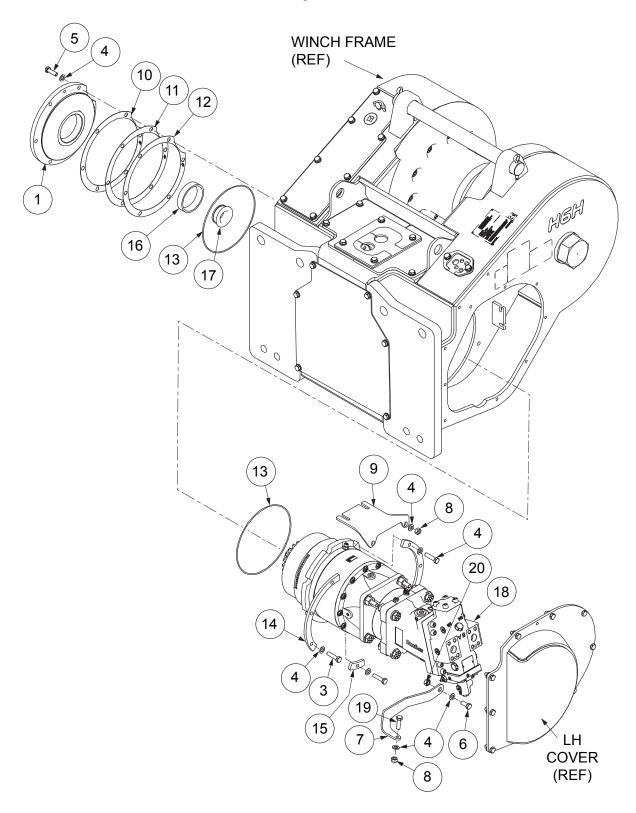
Mounting/Installation Parts Tigercat 635D (H6HT2U**Y44)

Note:

Mounting/installation parts are customer-supplied for this model.

Section 2 Gear Shaft/Train

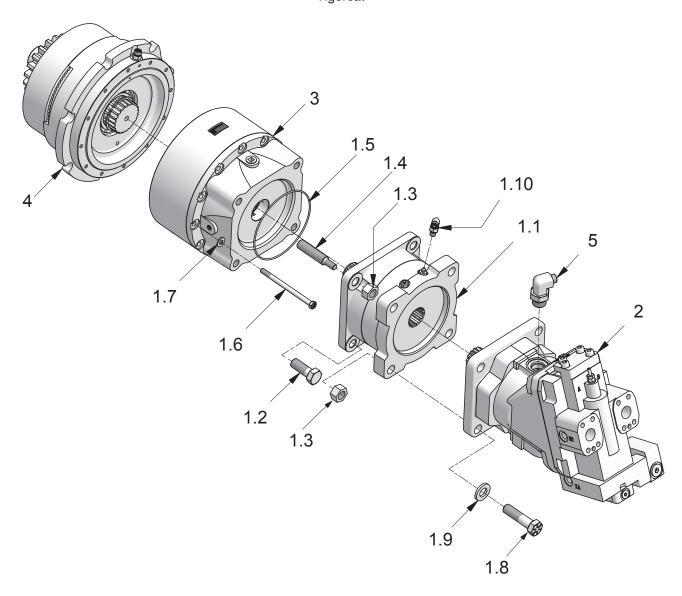
Motor Shaft Group Page 1 of 2



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	14		2311917	2	. Plate, Clamp
3		2312488	7	. Capscrew	15		2311918	1	. Plate, Clamp
4		296422W	19	. Washer	16	*b	2300668W	1	. Cup, Bearing
5		2312487	6	. Capscrew	17	*b	2300669W	1	. Cone, Bearing
6		293645W	1	. Capscrew	18	*e		1	. Assy, Motor Shaft
7	*c	2316491	1	. Bracket, Motor Support	19		293647W	1	. Capscrew
7	*d	2312036	1	. Bracket, Motor Support	20		2305130W	1	. Nut, Bracket Support
8		292656W	3	. Nut					
9		2312018	1	. Manifold Bracket					
10		2312061	AR	. Shim .020		*a	Included in N	lotor, 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	build Kit	2314660
				-		*c	First Used S	/N 1714	
						*d	Last Used S	N 1713	
						*e	See page 18	for deta	ils

Motor Shaft Assembly Tigercat



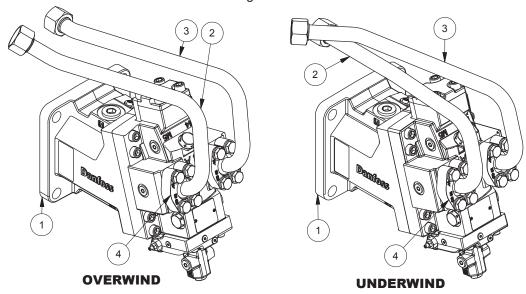
Motor Shaft Assembly
Tigercat 635D (H6HT2B**Y44) Last Used S/N 1713

Item		Part No.	Qty	Description	Item	•	Part No.	Qty	Description
		2313728		Assembly, Motor Shaft					
1.1	*a	2312155	1	. Brake, D Mount Dry Disk	1.9		221777W	4	. Washer
1.2		Y17C-1232	2	. Capscrew	1.10		R833251	1	. Fitting
1.3		221716W	6	. Nut	2	*c	2313727	1	. Motor, Hydraulic
1.4		2312041	2	. Stud		NS	2313890	1	O-Ring, Pilot Motor
1.5	*b	237349	1	. O-Ring		NS	2313891	1	Kit, Shaft Seal
1.6		R13801826	12	. Capscrew	3		2311883	1	. Reducer, Planetary
1.7		221767W	12	. Washer	4		2313026	1	. Assembly, Shaft
1.8		177192W	4	. Capscrew	5		R833260	1	. Fitting, Motor Case Drain

Motor Shaft AssemblyTigercat 635D (H6HT2B**Y44) First Used S/N 1714

Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
		2316150		Assembly, Motor Shaft					
1.1	*a	2312155	1	. Brake, D Mount Dry Disk	2		2316124	1	. Motor, Hydraulic
1.2		Y17C-1232	2	. Capscrew		NS	2313890	1	O-Ring, Pilot Motor
1.3		221716W	6	. Nut		NS	2313891	1	Kit, Shaft Seal
1.4		2312041	2	. Stud	3		2311883	1	. Reducer, Planetary
1.5	*b	237349	1	. O-Ring	4		2313026	1	. Assembly, Shaft
1.6		R13801826	12	. Capscrew	5		R833260	1	. Fitting, Motor Case Drain
1.7		221767W	12	. Washer					
1.8		177192W	4	. Capscrew		*a	See page 25	for detail	s
1.9		221777W	4	. Washer		*b	Included in I	Motor, Red	ducer & Brake Assembly
1.10		R833251	1	. Fitting			Rebuild Kit 2	2314659	•
				ŭ		*c	See page 20	for Motor	Replacement Kit details
						NS	Not Shown		•

Motor Replacement Kit Page 1 of 2



Item		Part No.	Qty	Description	Item	Part No.	Qty	Description
1	*a		1	Motor - Hyd; Danfoss H1B				
2	*a		2	Tube Assy - Motor A				
3	*a		6	Tube Assy - Motor B				
4		592255	2	Kit, Split Flange				

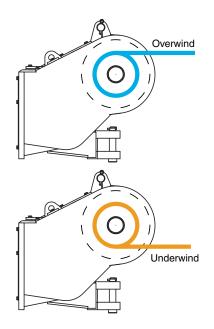
Refer to the chart below to determine replacement parts for cancelled motors

WINCH MODEL	KIT PART NUMBER:	OVERWIND/ UNDERWIND		ITEM 1 (CURRENT MOTOR):	ITEM 2 (TUBE A):	ITEM 3 (TUBE B):
H6HT2U**Y44	2316873	U	0010707	0016104	2316714	2316715
H0H12U 144	2316872	0	2313727	2316124	2316108	2316109

Notes:

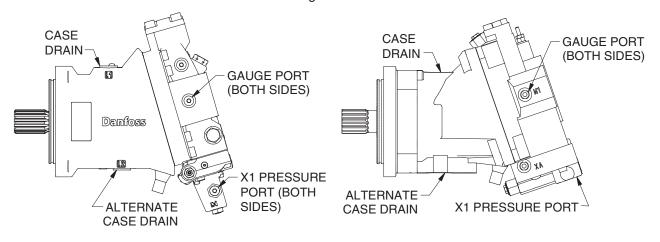
Use this chart to determine which H1B motor replaces the cancelled 51V motor.

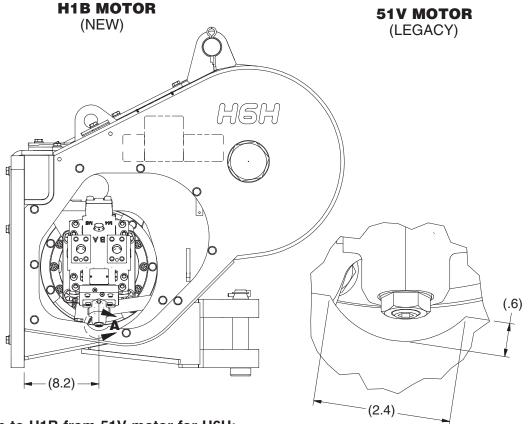
Be sure to note whether your motor is overwind or underwind to get the appropriate kit. Each kit contains all the components needed to convert your winch to the current motor.



Motor Replacement Kit

Page 2 of 2

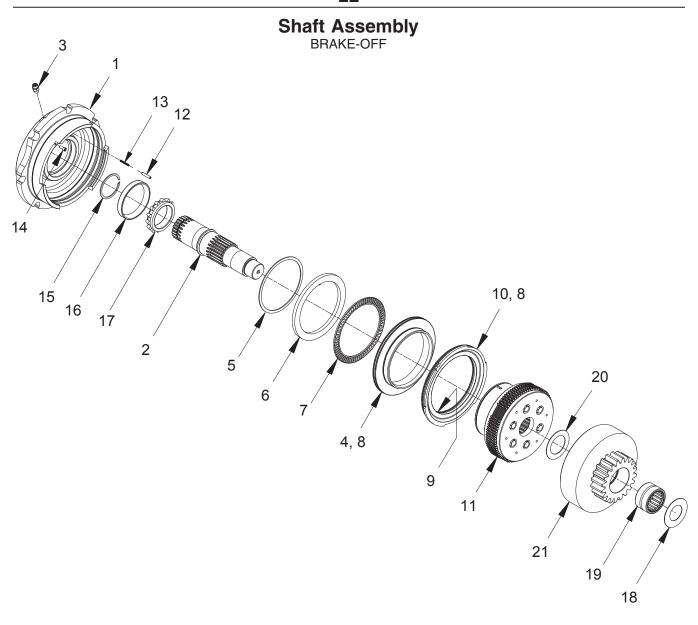




DETAIL A

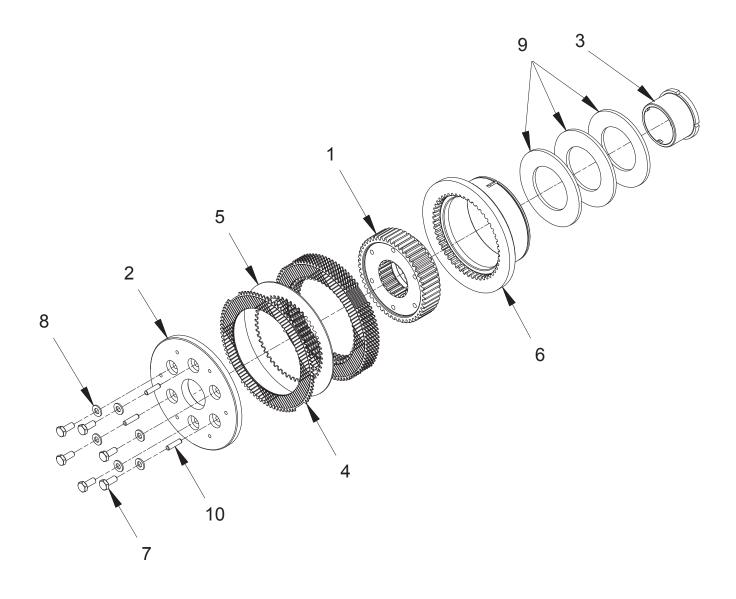
Conversion to H1B from 51V motor for H6H:

- Remove material from the winch frame as seen in Detail A to allow the new H1B motor to fit. More material may be removed if necessary for fit.
- 2. Material may be removed from the cover as necessary to allow the new motor to fit.



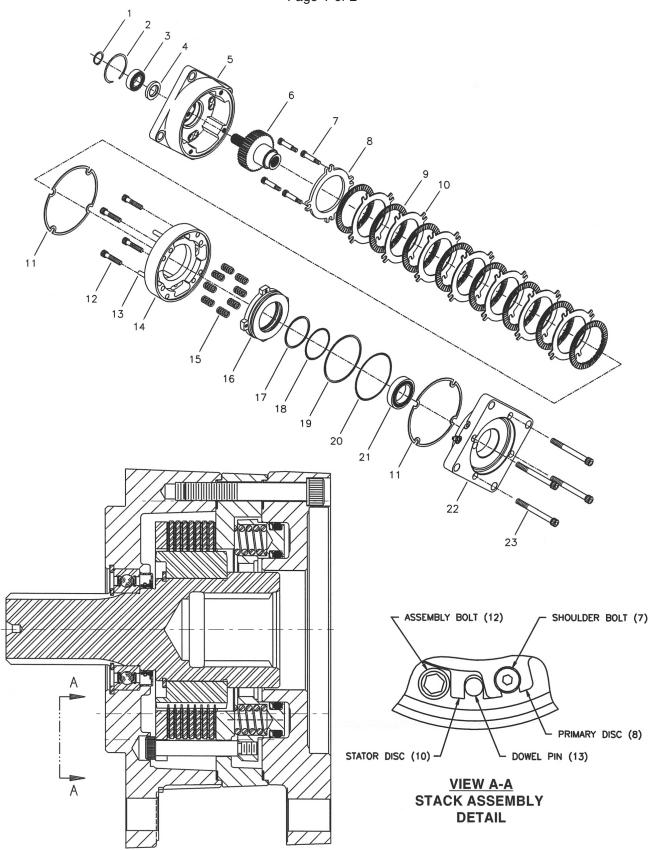
Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
		2313026		Assy, BRAKE-OFF Shaft					
1		2311855	1	. Housing, Clutch	15		2311684	1	. Ring, Snap
2		2311856	1	. Shaft, Clutch	16		137153W	1	. Cup, Roller Bearing
3		231439	1	. Fitting	17		137155W	1	. Cone, Roller Bearing
4		2312039	1	. Piston, Clutch	18		2311869	1	. Shim .062
5		2311683	1	. Ring, Snap	19		230407W	1	. Bearing
6		2312442	1	. Ring, Thrust	20		2311687	1	. Shim .062
7		2311655	1	. Brg, Thrust Needle Roller	21	*b	2312977	1	. Gear, Spider
3		86585W	2	. O-Ring	21	*c	2311905	1	. Gear, Spider
9		87287W	1	. O-Ring					
10		2311880	1	. Ring, Seal					
11	*a	2311903	1	. Assy, Clutch		*a	See page 23	for details	
12		239147W	1	. Pin		*b	Gear ratios 2	2 & 5	
13		2303992W	1	. Spring		*c	Gear ratios 1	& 6	
14		R13811617	1	. Capscrew					

Clutch Assembly



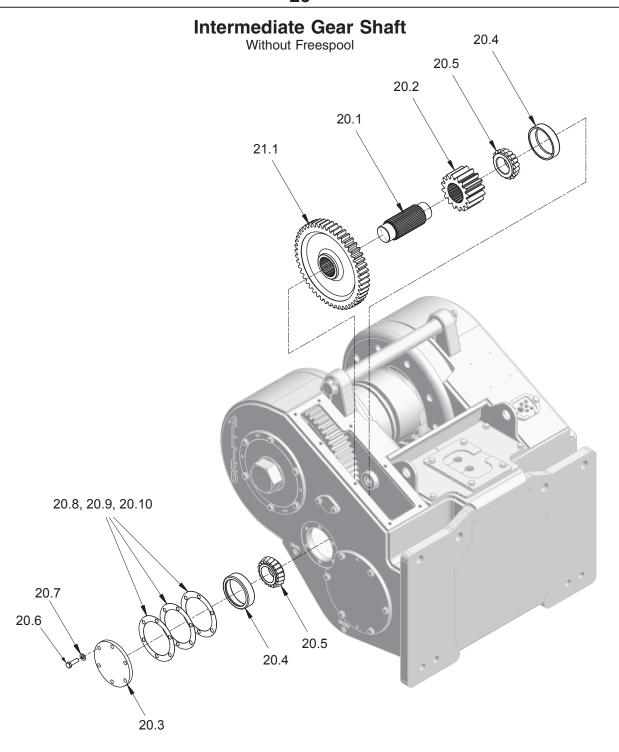
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311903		Assembly, Clutch	6	2311906	1	. Plate, Pressure
1	2311904	1	. Hub, Clutch	7	296420W	6	. Washer
2	2311907	1	. Plate, Clutch	8	293628W	6	. Capscrew
3	2312029	1	. Retainer, Spring	9	2311251	3	. Spring, Belleville
4	328715W	7	. Disc, Friction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

Dry Disc Brake Page 1 of 2

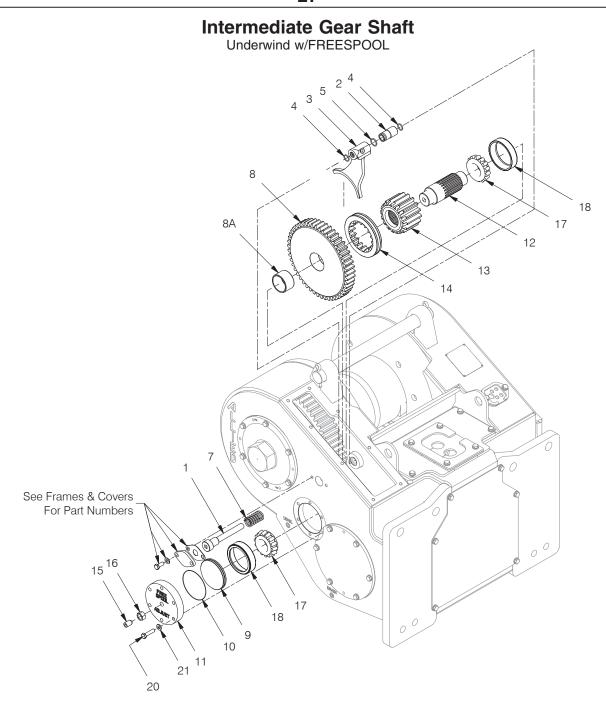


Dry Disc Brake Page 2 of 2

ltem	ı	Part No.	Qty	Description	Item	P	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 i	in O-Ring	Repair Kit 2312302
6		NSS	1	. Spline Shaft Assembly			O-Ring R	epair Kit 2	312302 is included in
7		NSS	4	. Bolt			Motor, Re	educer & B	rake Assembly Rebuild Kit
8	*d	NSS	1	. Primary Disc			2314659		
9	*d	NSS	8	. Rotor Disc		*b	Included i	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	ate/Drum	Shaft & Brake Assembly
12		NSS	4	. Capscrew			Rebuild K	(it 231466()
13		NSS	4	. Dowel Pins		*c	Included i	in Spring F	Repair Kit 250850
14		NSS	1	. Spring Plate			Spring Re	epair Kit 25	50850 is included in
15	*c	NSS	10	. Spring, Red			Intermedi	ate/Drum \$	Shaft & Brake Assembly
16		NSS	1	. Piston			Rebuild K	(it 2314660)
17	*a	NSS	1	. Backup Ring		*d	Included i	in Lining R	lepair Kit 250847
18	*a	NSS	1	. O-Ring			Lining Re	pair Kit 25	0847 is Included in
19	*a	NSS	1	. Backup Ring			Intermedi	ate/Drum \$	Shaft & Brake Assembly
20	*a	NSS	1	. O-Ring				(it 2314660	
						NSS	Not Sold	Separately	<i>'</i>

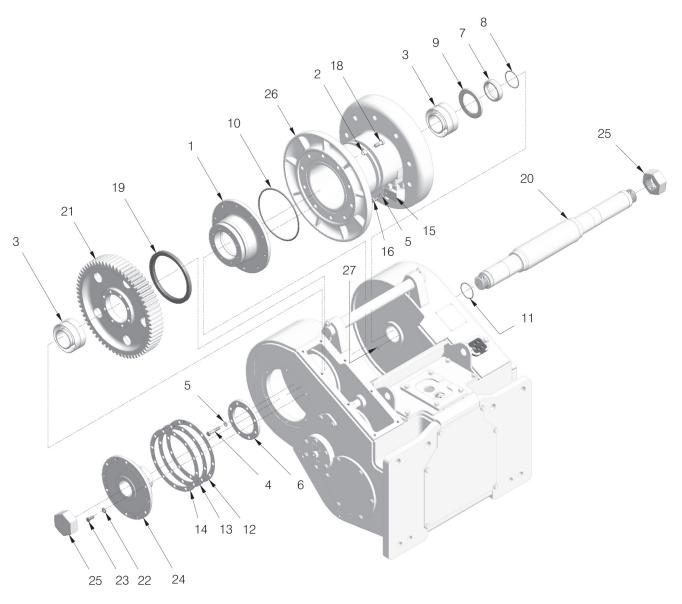


Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
20.1		95972W	1	Shaft	20.10		149543W	AR	Shim .020
20.2		95973W	1	Gear	21.1	*b	96024W	1	Gear
20.3		280262W	1	Retainer, Bearing	21.1	*c	2314411	1	Gear
20.4	*a	30059W	2	Cup, Roller Bearing					
20.5	*a	30080W	2	Cone, Roller Bearing		*a	Included in Ir	ntermedia	te/Drum Shaft & Brake
20.6		2312487	6	Capscrew			Assembly Re	build Kit 2	2314660
20.7		296422W	6	Washer		*b	Gear ratios 1	& 6	
20.8		149541W	AR	Shim .005		*C	Gear ratios 2	& 5	
20.9		149542W	AR	Shim .007		AR	As Required. more informa		Service Manual 599040W for



Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
1	*a	2311894	1	Shaft, Freespool	14		2313813	1	. Clutch - Dental, Underwind
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	lock 318	702W to threads
9		2302624W	1	Piston, Freespool Adjust		*b	Included in In	termedia	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					

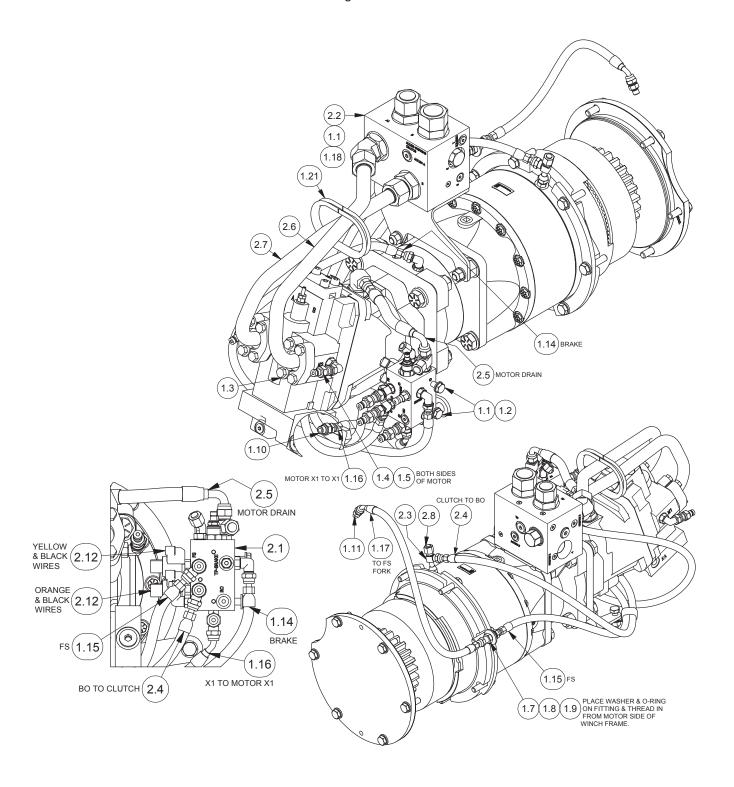
Drum Shaft



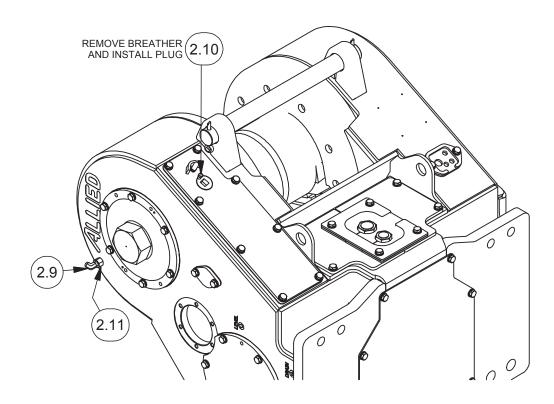
Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
1		141674W	1	Adapter					
2		53559W	10	Thimble, Tapered	17		221771W	8	Hard Washer
3	*b	2310093	2	Bearing, Roller	18		2310891	10	Capscrew
1		221577W	8	Capscrew	19		141671W	1	Seal, Oil
5	*b	15158W	9	Washer	20		2312064	1	Shaft, Drum
6		95978W	1	Retainer	21		95977W	1	Gear, Drum
7	*a	172808W	1	Spacer	22		296422W	6	Washer
3		15881W	1	O-Ring	23		2312486	6	Capscrew
)	*b	44547W	1	Seal, Oil	24		172810W	1	Retainer
0	*b	133927W	1	Ring, Piston Seal	25	*a	2312099	2	Nut
1	*b	90263W	1	O-Ring	26		2313730	1	Drum, H6H
2		175648W	AR	Shim, .020	27		Y433070.45	1	Fitting
3		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 Re		te/Drum Shaft & Brake 2314660

Section 3 Hydraulic/Electrical Components

Internal Hydraulic Group
Tigercat 635D (H6HT**Y44)
Page 1 of 2



Internal Hydraulic Group
Tigercat 635D (H6HT**Y44)
Page 2 of 2



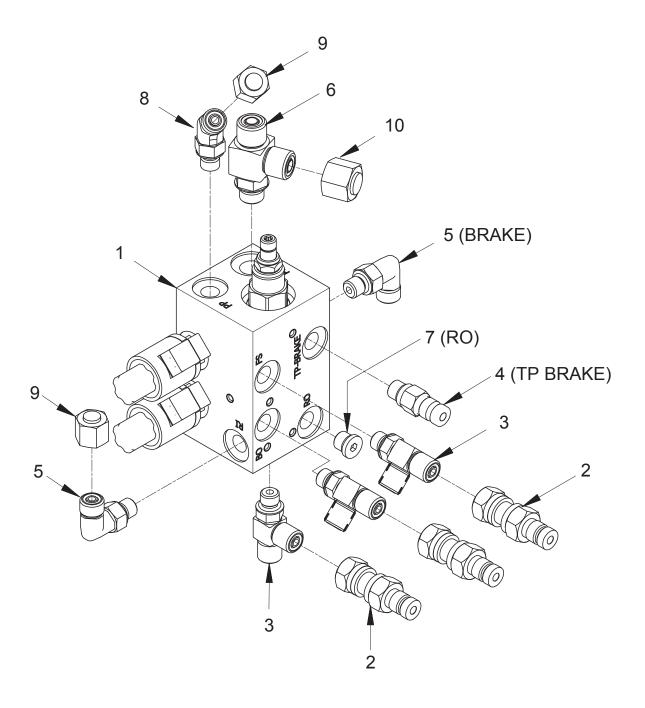
Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
1.1		Y09C-M1025	4	Capscrew	1.21		24257	1	Trim, Edge
1.2		296420W	2	Washer	2.1 *	b	2313735	1	Assy, Control Manifold
1.3		229448	2	Kit, Split Flange	2.2 *	C	2313737		Assy, Counterbalance
1.4		2307625W	2	Coupler, Quick Male					Relief Manifold
1.5		R833253	2	Fitting	2.3		236855	1	Fitting
1.7		R834100	1	Fitting	2.4 *	а	2312351	1	Assy, Hose
1.8		15178W	1	Washer	2.5 *a	а	2313738	1	Assy, Hose
1.9		211564	1	O-Ring	2.6		2313720	1	Assy, Tube - Motor B
1.10		R833103	1	Fitting	2.7		2313719	1	Assy, Tube - Motor A
1.11		231439	1	Fitting	2.8		232984	1	Fitting
1.14	*a	2312353	1	Assy, Hose	2.9		2313742	1	Fitting
1.15	*a	2312350	1	Assy, Hose	2.10		209511	1	Fitting
1.16	*a	2312878	1	Assy, Hose	2.11		209502	1	Fitting
1.17	*a	2312212	1	Assy, Hose	2.12		2313812	1	Harness, Winch Wire
1.18		15176W	2	Washer					

Included in Hose Kit 2314776

*a *b See page 32 for details

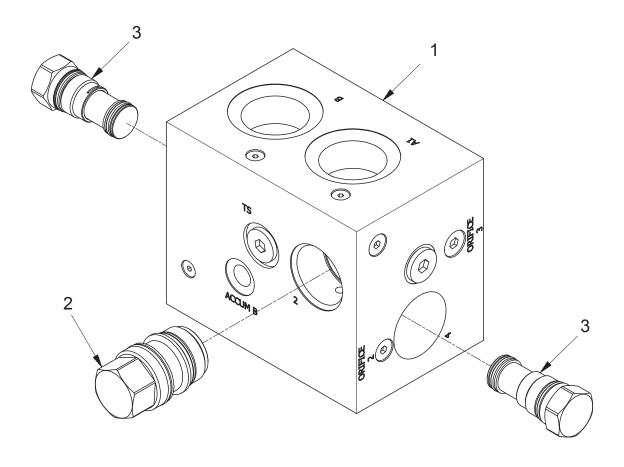
See page 34 for details

Control Manifold Assy Tigercat 635D (H6HT**Y44)



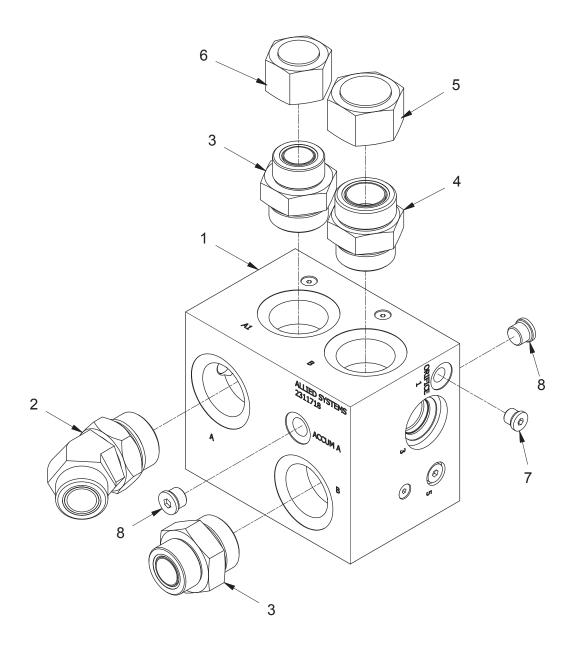
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1 *a 2 3 4 5 6 7	2313735 2311770 2307625W R833400 R14040 R833251 231465 235387	1 1 3 3 1 2 1	Assy, Control Manifold . Assy, Control Manifold . Coupler, Quick Male . Fitting . Coupler, Quick Male . Fitting . Fitting . Fitting . Fitting	8 9 10	R833200 232984 231822 *a See page 3	1 2 1 36 for deta	. Fitting . Fitting . Fitting ails

Counterbalance Relief Manifold Assy Tigercat 635D (H6HT**Y44)



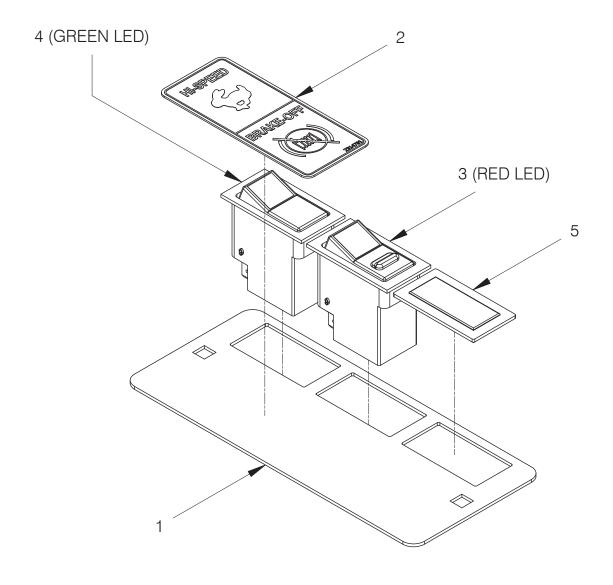
Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
		2313736	1	Assy, Counterbalance Relief Manifold					
1	*a	2311718	1	. Assy, Counterbalance Relief Manifold	3		256462 251170	2 1	. Plug, Cavity; T-3A Kit, Seal
2		258473 243815	1 1	. Plug, Cavity; T-17A Kit, Seal		*a	See page 3	7 for details	,

Counterbalance Relief Manifold Assy Tigercat 635D (H6HT**Y44)



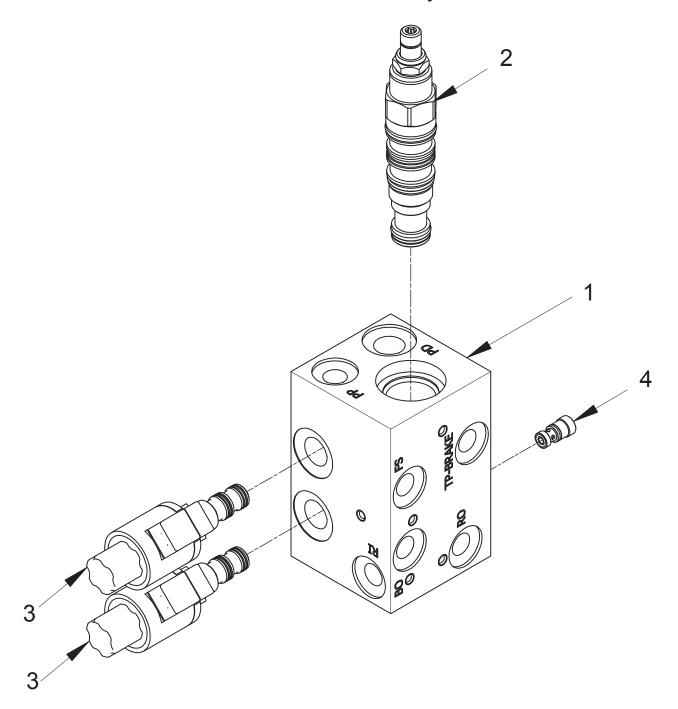
Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
		2313737	1	Assy, Counterbalance Relief Manifold					
1	*a	2313736	1	. Assy, Counterbalance Relief	5		R834257	1	. Fitting
				Manifold	6		231820	1	. Fitting
2		R833218	1	. Fitting	7		235387	1	. Fitting
3		R833133	2	. Fitting	8		229383	2	. Fitting
4		232359	1	. Fitting					-
				ŭ		*a	See page 33	3 for detai	ls

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



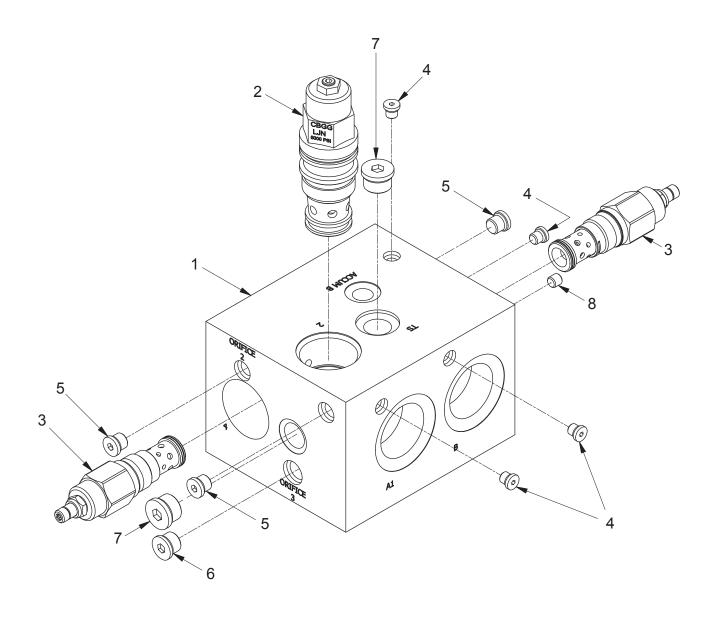
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2314787	1	Assy, Switch Panel; BRAKE-OFF & HI-SPEED				
1	2313136	1	. Plate, Switch Mounting	4	2311072	1	. Assy, Switch; 12/24V,
2	2314781	1	. Decal, Switch Panel;				Green LED
			Brake-Off & Hi-Speed	5	234509	1	. Cover, Bland
3	2310504	1	. Assy, Switch; 24V, Red LED				

Control Manifold Assy



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311770	1	Assy, Control Manifold				
1	2311771	1	. Body, Control Manifold	4	2312074	1	. Valve, Shuttle
2	2311592	1	. Valve, Directional	7	2312112	1	Seals, O-Ring
	252566	1	Kit, Seal	2012112		Ocalo, O Timg	
3	2312073	2	. Valve, Cartridge				
	2314106	1	Base, Valve Cartridge				
	2313984	1	Coil				
	2312111	1	Kit. Seal				

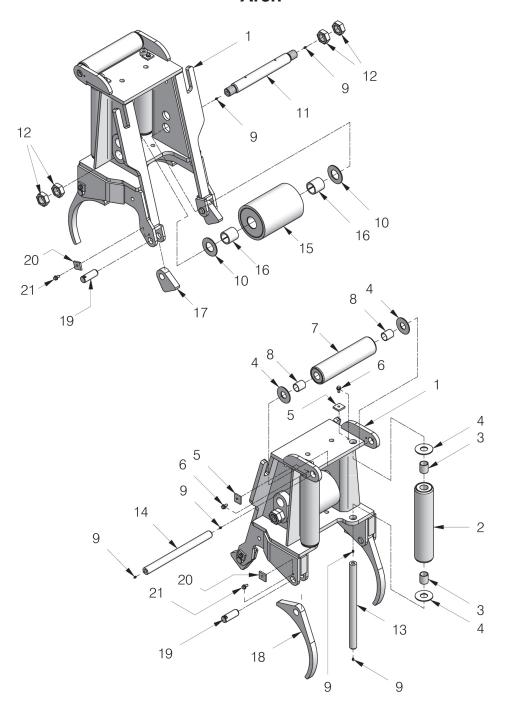
Counterbalance Relief Manifold Assy



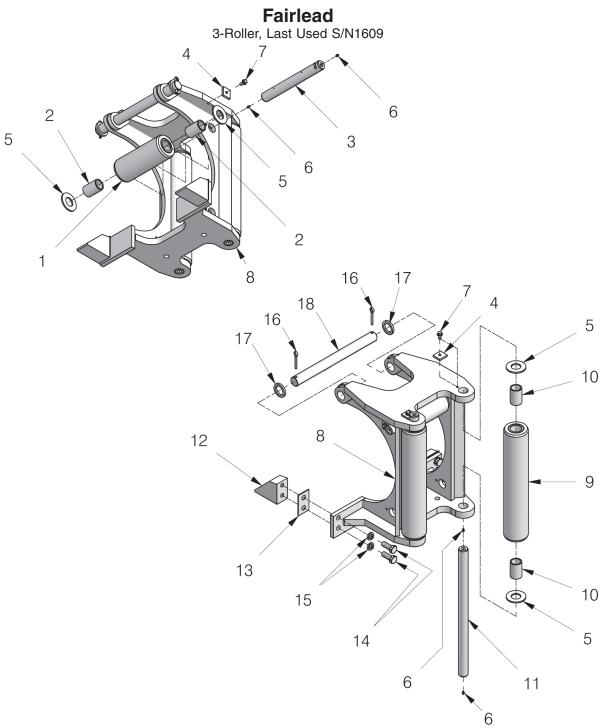
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311718	1	Assy, Counterbalance Relief Manifold				
1 2 3	2311719 2312068 243815 2307438W	1 1 1 2	. Body, Manifold . Valve, Counter Balance Seal Kit (Not Shown) . Valve, Relief	5 6 7 8	235387 229383 229345 2310181	3 1 2 1	. Fitting . Fitting . Fitting . Plug, Orifice
4	259258 242230	1 4	Kit, Seal . Fitting	Ü	20.0.0.	·	

Section 4 Optional Equipment

Arch

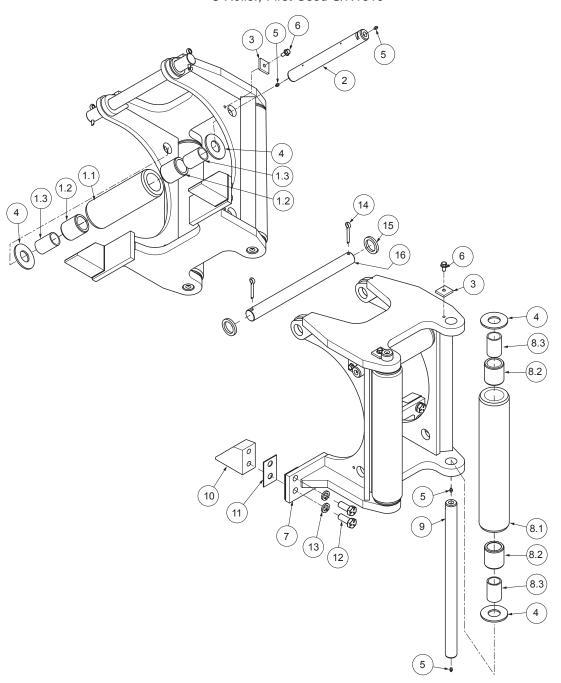


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2301748W	1	Arch Assembly				
1	2301749W	1	. Arch	12	221336W	4	. Nut
2	2301907W	2	. Roller	13	2301920W	2	. Shaft
3	35135W	2	Bushing	14	2301919W	1	. Shaft
4	331767W	6	. Washer	15	2301925W	1	. Roller
5	2301706W	3	. Keeper	16	2817W	2	Bushing
6	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				ŭ



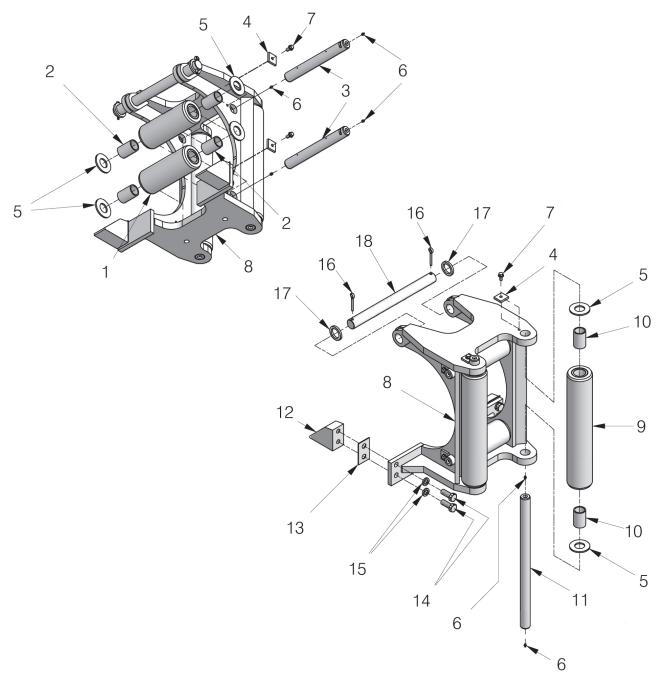
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2301731W		Fairlead Assy, 3-Roller				
1	2301727W	1	. Roller	10	2570W	4	Bushing
2	2570W	2	Bushing	11	2301721W	2	. Shaft
3	2301722W	1	. Shaft	12	226374W	2	Bracket
4	2301706W	3	. Keeper	13	93878W	AR	Shim
5	33394W	6	. Washer	14	18669W	4	Capscrew
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 Assembly, 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

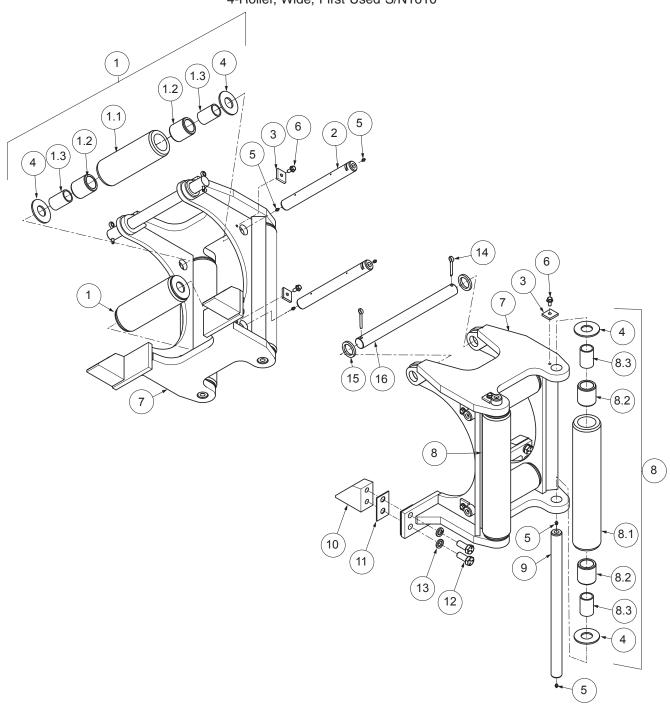
Fairlead 4-Roller, Last Used S/N1609



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 Ass'y, 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

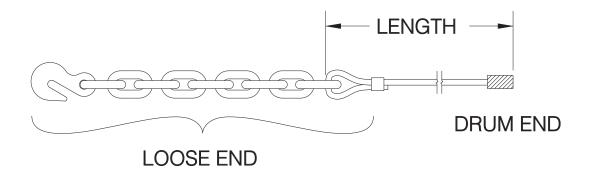


Figure A

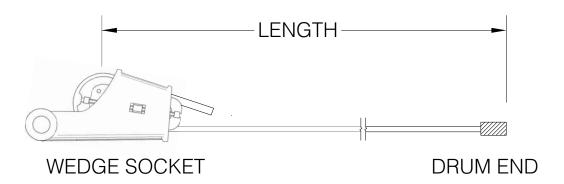


Figure B

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 (Illustrated in Figure A)	
YS7-198LWS	*b	7/8"	198 (60) *c		*b	YS Series Wire Rope (Illustrated in Figure B)		
YS7-297LWS	*b	7/8"	297 (91) *d		*c	Length to fill drum to 2/3	capacity (recommended)	
			. ,		*d	Length to fill drum to ful	l capacity	

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Section 5 Service Kits

Recommended Winch Service Intervals and Kits

Following the service schedule recommended here to help keep skidder 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.

If used more than once a day, perform an overhaul.

If used less than once a day, remove covers and check to determine need.

^{***} Follow skidder schedule if using skidder filter.

Recommended Gear Compartment Oil								
Chevron	Drive Train Fluids HD	Consult service/operating manual for low temperature oils and other details. Use of						
ExxonMobil	Mobiltrans HD Series	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 skidder operator and service manuals							
Complete oil change (every 1,000 hours)	N/A	All	Check our website for current operator's and service manuals for appropriate oils							
Clutch and brake overhaul (every 5,000 hours)	Motor, reducer & brake assembly rebuild kit	All	2314659							
Major overhaul (every 10,000 hours)	Intermediate/drum shaft & brake assembly rebuild kit	All	2314	1660						

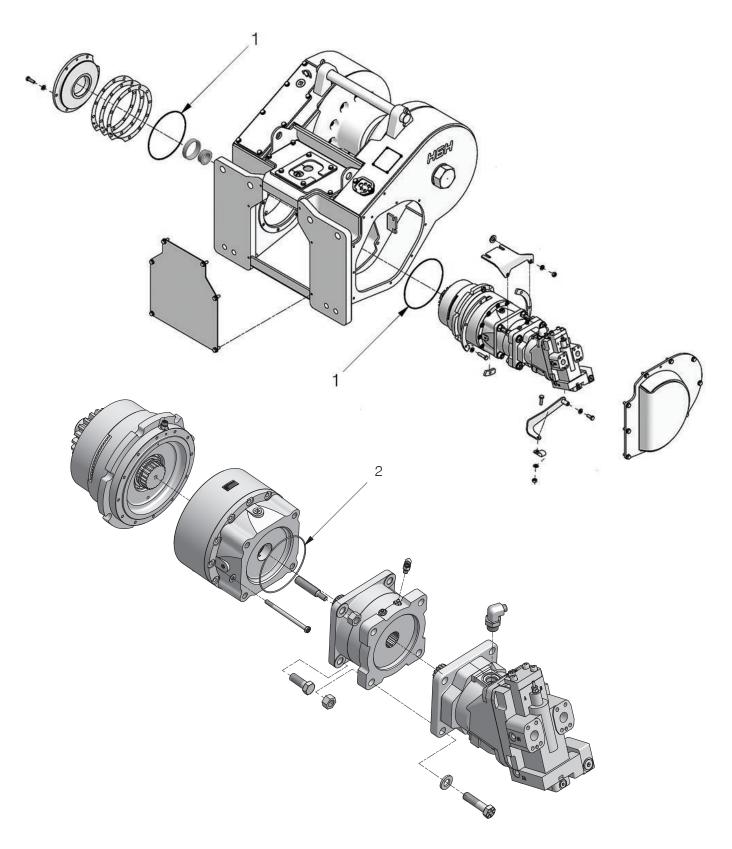
Table 2 Routine Maintenance Kits

^{*} Evaluate = Service based on average winch use;

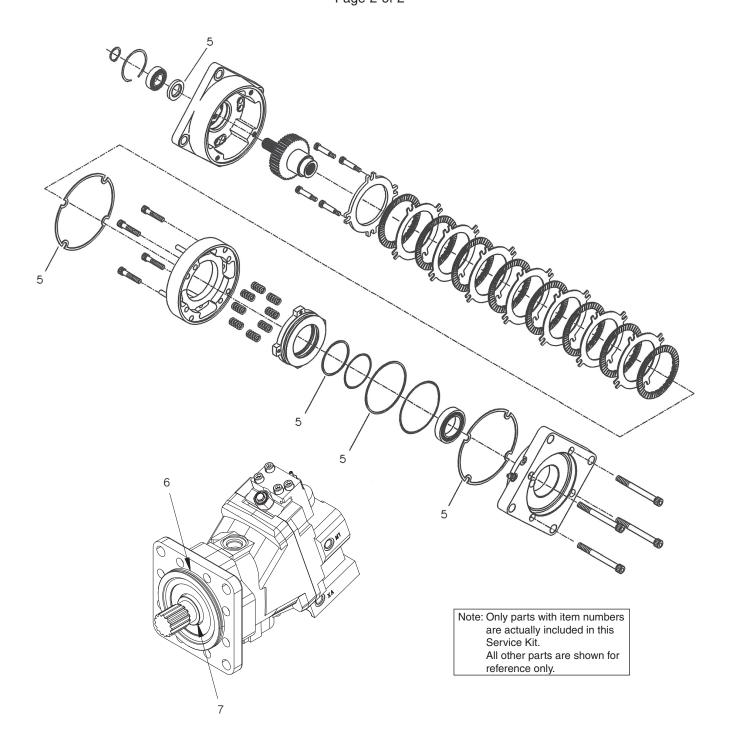
^{*} Inspect = Disassemble and inspect for wear.

^{**} Service winch using the skidder's hour meter or the length of time the winch is mounted to the skidder, whichever occurs first.

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

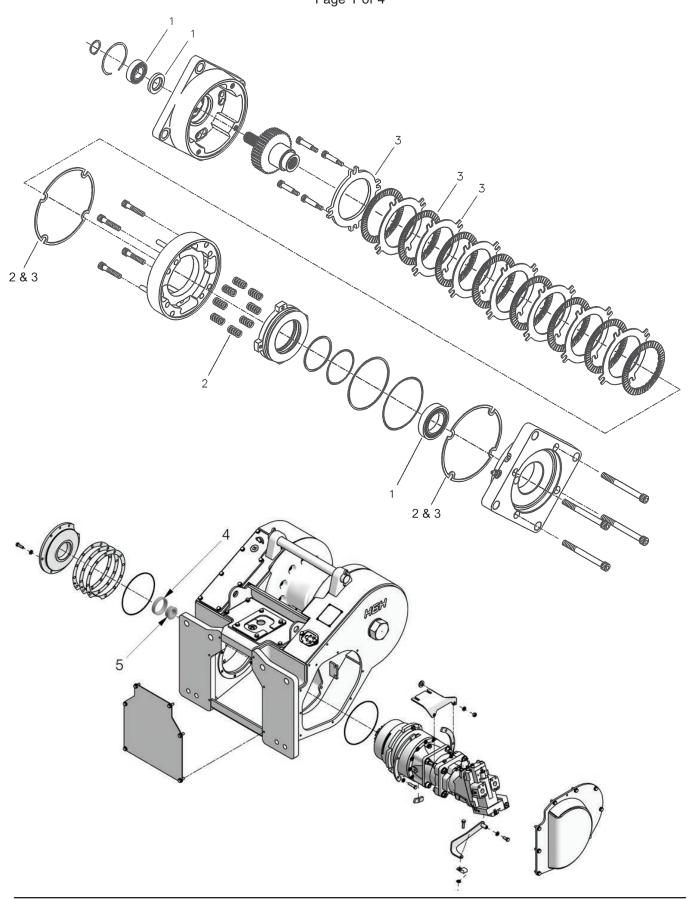


Motor, Reducer & Brake Assembly Rebuild Kit: 2314659 Page 2 of 2

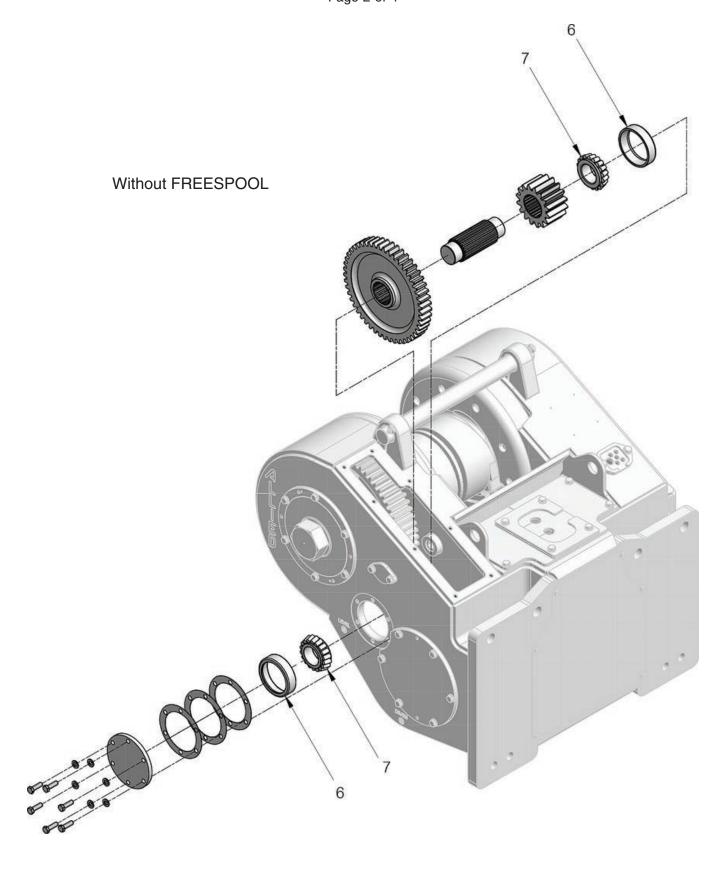


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2314659		Rebuild Kit, Motor, Reducer& Brake Assy	4	000004144		Adla adia (Nat Observa)
1	203564	2	. O-Ring	4	230064W	1	. Adhesive (Not Shown)
0		4	3	5	2312302	1	. Kit, O-Ring
2	237349	ı	. O-Ring	6	2313890	1	. O-Ring
3	313022W	1	. Adhesive (Not Shown)	7	2313891	1	. Kit, Shaft Seal

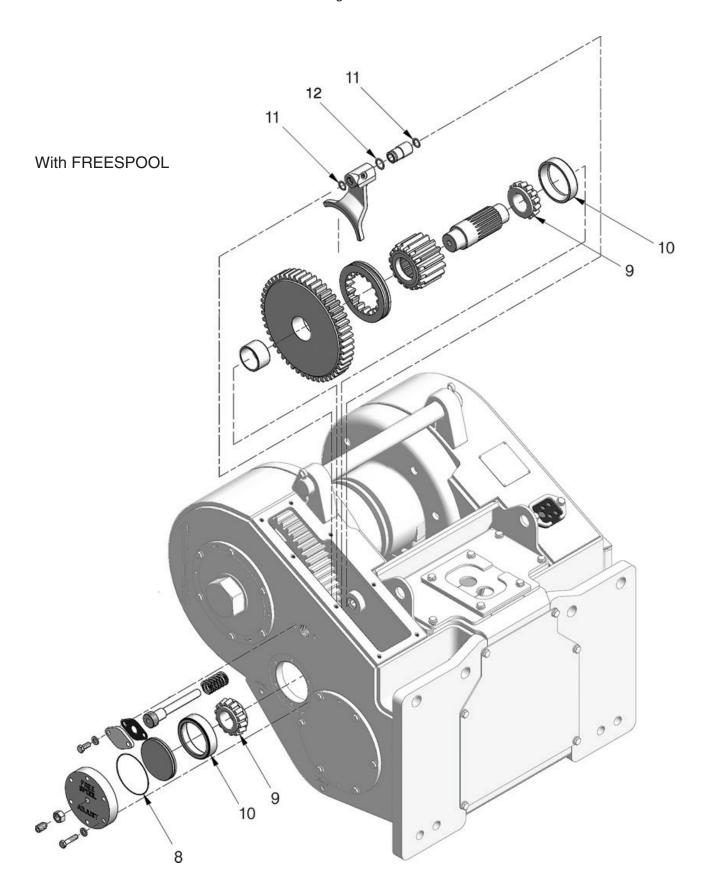
Intermediate/Drum Shaft & Brake Assembly Rebuild Kit: 2314660 Page 1 of 4



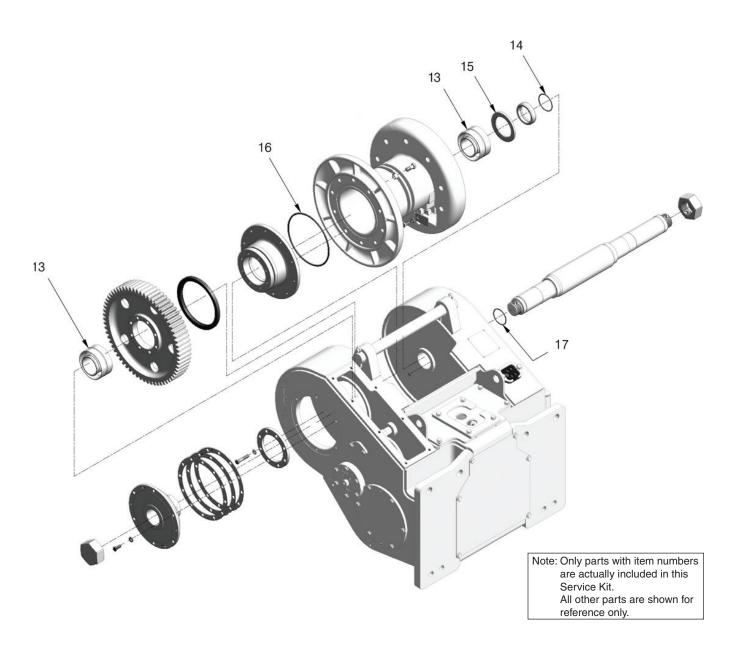
Intermediate/Drum Shaft & Brake Assembly Rebuild Kit: 2314660 Page 2 of 4



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 Recfommended Service Parts

H6H Hydraulic Winch Recommended Service Parts

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

Page 56 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 56 also lists operator controls components and wire rope assemblies. Order parts as required and are relevant for your installation.

Page 57 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 58 lists spare parts and hose kits. Order parts or kits as required and as relevant for your installation.

Page 59 lists 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 & Seals Applies to: H6H Standard Winch mounted on Tigercat 635D (Y44)					
Allied P/N	Description	Qty on Winch	See Parts Manual Page	Order Qty		
2312045	Gasket, Top Right-Hand	1	Frames/Covers			
151646W	Gasket, Freespool	1	Frames/Covers			
2312009	Seal, Top	1	Frames/Covers			
2312208	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)	2	Control Manifold Assembly			
2312112	Seal Kit, Shuttle Valve (P/N 2312074)	1	Control Manifold Assembly			
236133	Seal Kit, Cavity Plug (P/N 258473)	1	CBR Manifold Assembly			
243815	Seal Kit, Cavity Plug (P/N 258473, 2312068)	1	CBR Manifold Assembly			
251170	Seal Kit, Cavity Plug (P/N 256462)	2	CBR Manifold Assembly			
259258	Seal Kit, Relief Valve (P/N 2307438W)	2	CBR Manifold Assembly			

Operator Cont	rols Components	(Order as Required
Applies to: All			
Allied P/N	Description	Qty on Winch	Order Qty
2310013	Assembly, Switch (Yellow LED)	1	
2310504	Assembly, Switch (Red LED)	1	
2310506	Assembly, Switch (Red LED), Momentary	1	
2311072	Assembly, Switch (Green LED)	1	

Wire Rope A	Wire Rope Assemblies Order as Required					
Applies to:	All					
Allied P/N	Description	Length	Will Fill Drum To:	Order Qty		
WR6-275L	Wire Rope Assy, 3/4"	275 FT (84 M)	2/3 Capacity (Recommended)			
WR6-413L	Wire Rope Assy, 3/4"	413 FT (126 M)	Full Capacity			
WR7-198L	Wire Rope Assy, 7/8"	198 FT (60 M)	2/3 Capacity (Recommended)			
WR7-297L	Wire Rope Assy, 7/8"	297 FT (91 M)	Full Capacity			
WR8-154L	Wire Rope Assy, 1"	154 FT (47 M)	2/3 Capacity (Recommended)			
WR8-230L	Wire Rope Assy, 1"	230 FT (70 M)	Full Capacity			
YS6-275LWS	Wire Rope Assy, 3/4"	275 FT (84 M)	2/3 Capacity (Recommended)			
YS6-413LWS	Wire Rope Assy, 3/4"	413 FT (126 M)	Full Capacity			
YS7-198LWS	Wire Rope Assy, 7/8"	198 FT (60 M)	2/3 Capacity (Recommended)			
YS7-297LWS	Wire Rope Assy, 7/8"	297 FT (91 M)	Full Capacity			
YS8-154LWS	Wire Rope Assy, 1"	154 FT (47 M)	2/3 Capacity (Recommended)			
YS8-230LWS	Wire Rope Assy, 1"	230 FT (70 M)	Full Capacity			

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

Applies to: All

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: All

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	

Spare Parts				Order as	Required
Applies to:	See "Relevant fo	or Installat	ion" Column		
Allied P/N	Description	Qty on Winch	Relevant for Installation	See Parts Manual Page	Order Qty
2316124 *a 2313727 *b	Motor, Hydraulic	1	Tigercat 635D (H6HT2B**Y44)	Motor Shaft Group	
2311883	Assembly, Reducer	1	Tigercat 635D (H6HT2B**Y44)	Motor Shaft Assembly	
2312155	Assembly, Brake	1	All	Motor Shaft Assembly	
21420W	Plug, Breather	1	All	Frame/Covers	
2300962W	Cap, Breather	1	All	Frame/Covers	
95959W	Pin, Drawbar	1	All	Frame/Covers	
2303221W	Pin, Retaining	1	All	Frame/Covers	
2312099	Nut, Blind	2	All	Shaft, Drum	
2301783W	Keeper, Ferrule	1	All	Shaft, Drum	
328715W	Disc, Friction	7	All	Clutch Assembly	
283434W	Assembly, Gear	1	All	Shaft, Intermediate Gear	
2570W	Bushing	6	All	Fairlead, 3-Roller	
2570W	Bushing	8	All	Fairlead, 4-Roller	

Hose Kits		Order as	Required	
Applies to:	See "Relevant for Install	ation" Colum	ın	
Allied P/N	Description	Qty on Winch	Relevant for Installation	Order Qty
2314776	Hose Kit, Winch Hydraulics	1	Tigercat 635D (Y44)	

^{*}a First used with S/N1714

^{*}b Last used with S/N1713

Tool Kits

Order these tool kits as required for installation, maintenance and service 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 Tools

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

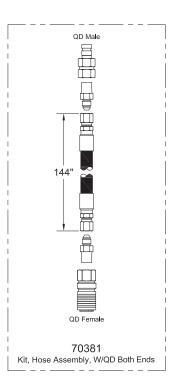
Allied P/N	Description	Order Qty
906601	0 to 8700 PSI Digital Pressure Gauge w/Female QD Connector	
69782	72" Hose Assembly w/QD Connectors Both Ends	
70381	144" Hose Assembly w/QD Connectors Both Ends	
69778	Multi-Meter, 12 Function	

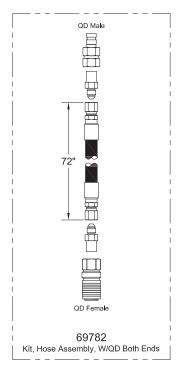


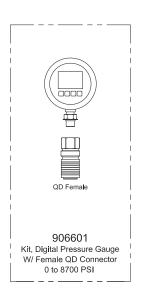
Duty Cycle Non-Contact

InfraRed Thermometer

CAT III Test Leads Type K Bead Wire Temp Probe







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